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EDITORIAL NOTICE

Comet P/2021 N4 was announced without a name pending further investigation regarding possible earlier sightings of this main-belt object. The object was detected in 2016 images, and assigned the designation "P/2016 U2". It is herein being assigned the permanent comet designation "432P" and named "PANSTARRS".

Minor planet (248370) = 2005 QN173 has been observed to display cometary features, and is being designated a dual-status object: 433P = (248370).

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 132217. The longitudes λ are measured in degrees eastward from Greenwich, and the parallax constants $\rho\cos\phi'$ and $\rho\sin\phi'$ are the product of the geocentric distance (in earth equatorial radii) and the cosine and sine, respectively, of the geocentric latitude.

Obs.	λ	$\rho\cos\phi'$	$\rho\sin\phi'$	
270				Unistellar Network
C59				Yangwang-1
G15	9.1183	0.71116	+0.70080	Magroforte Observatory, Alessandria
K00	8.94836	0.642630	+0.763639	Hanau
R66	172.58761	0.726587	−0.684777	Mooray Observatory, Christchurch
V72	263.89011	0.752696	+0.656235	Omaha
Z02	352.13331	0.856450	+0.515339	HAO observatory, Oukaïmeden

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
1999 CK_{143}	1999 02	09.52839	13 12 59.91	−07 54 25.4	*MPS* 4200	568
2002 AW_{92}	2002 01	13.25391	10 50 23.95	−04 07 27.5	*MPS* 47429	807
2003 KW_{27}	2003 05	31.05382	13 16 58.96	−09 58 29.2	*MPS* 82139	807
2004 HR_{76}	2004 04	27.31384	13 22 16.38	−07 09 55.6	*MPS* 153677	568
2004 HV_{76}	2004 04	27.31384	13 22 50.96	−07 08 29.0	*MPS* 153677	568
2004 HX_{76}	2004 04	27.31550	13 19 59.20	−08 07 00.9	*MPS* 153677	568
2004 VK_{121}	2004 11	10.30564	02 35 10.22	+16 10 21.2	*MPS* 253532	568
2004 VM_{122}	2004 11	10.30935	02 39 06.71	+15 53 52.8	*MPS* 253533	568
2004 VG_{125}	2004 11	10.31306	02 44 17.78	+16 42 15.5	*MPS* 253534	568
2004 XY_{187}	2004 12	16.42337	05 03 17.17	+24 04 49.8	*MPS* 139666	568
2004 XP_{190}	2004 12	16.38025	04 37 01.69	+20 09 13.1	*MPS* 142672	568
2005 BS_{40}	2005 01	17.38148	08 44 46.01	+16 36 47.7	*MPS* 129135	568
2005 BM_{47}	2005 01	17.33601	08 27 05.90	+20 14 07.9	*MPS* 142673	568
2005 GH_{187}	2005 04	13.17803	09 46 19.10	+13 56 51.2	*MPS* 133380	695
2005 JP_{10}	2005 05	05.39170	13 40 05.72	−09 00 00.6	*MPS* 134066	568
2005 NO_{105}	2005 07	08.42310	19 59 58.38	−20 26 21.5	*MPS* 142681	568
2005 NT_{111}	2005 07	08.44017	20 10 17.46	−18 44 33.5	*MPS* 142684	568
2005 QD_{184}	2005 09	02.33844	22 21 20.51	−09 39 27.4	*MPS* 248971	568
2005 QK_{185}	2005 09	02.36209	22 17 38.92	−10 07 59.7	*MPS* 250268	568
2005 RC_{50}	2005 09	05.27834	22 35 38.04	+03 26 16.5	*MPS* 248143	568
2006 HC_{135}	2006 04	27.09725	12 33 52.49	−01 31 13.2	*MPS* 173955	807
2006 HS_{137}	2006 04	27.16409	14 02 24.03	−09 48 51.7	*MPS* 173957	807
2006 KN_{138}	2006 05	26.45701	16 12 23.60	−22 03 06.1	*MPS* 192270	568
2007 BC_{86}	2007 01	20.37855	08 45 57.96	+19 24 36.5	*MPS* 263280	568
2007 BJ_{95}	2007 01	20.39244	08 48 12.00	+15 50 00.3	*MPS* 263285	568
2007 CA_{71}	2007 02	15.47535	09 27 10.08	+18 05 38.8	*MPS* 260641	568
2008 AX_{119}	2008 01	07.56320	08 40 04.46	+19 19 24.2	*MPS* 256782	568
2009 BE_7	2020 03	25.71851	11 14 42.44	+25 21 13.2	*MPS*1164380	C94
2009 BE_7	2020 03	25.74884	11 14 24.44	+25 22 03.7	*MPS*1164380	C94
2009 FJ_{81}	2009 03	30.30775	12 27 25.93	+12 48 07.3	*MPS* 912283	568
2009 GA	2009 04	01.99412	12 48 54.99	−09 23 39.1	*MPS* 282788	J41
2010 XB_{11}	2011 01	14.54272	16 15 01.977	+26 57 47.23	*MPS* 372130	695
2011 BR_{151}	2021 08	05.48566	22 57 46.82	−03 37 40.7	*MPS*1445330	F51
2011 BR_{151}	2021 08	05.49692	22 57 46.29	−03 37 40.1	*MPS*1445330	F51
2011 BR_{151}	2021 08	05.50816	22 57 45.82	−03 37 40.3	*MPS*1445330	F51
2011 BR_{151}	2021 08	05.51943	22 57 45.32	−03 37 40.2	*MPS*1445330	F51
2012 JR_{31}	2012 05	20.38141	15 42 24.308	−22 22 55.71	*MPS* 448792	F51
2014 GL_2	2011 06	29.57150	00 01 50.91	−01 06 59.8	*MPS*1067559	568
2014 OS_{179}	2014 07	29.52980	22 10 55.253	−19 51 31.08	*MPS* 524225	F51
2015 AM_{69}	2015 01	16.33354	07 30 48.562	+21 19 58.00	*MPS* 562954	F51
2015 AM_{69}	2015 01	16.35794	07 30 47.132	+21 20 00.97	*MPS* 562954	F51
2015 AM_{69}	2015 01	16.37018	07 30 46.398	+21 20 02.58	*MPS* 562954	F51
2015 AE_{111}	2015 01	29.09413	07 55 58.03	+18 11 45.9	*MPS* 801618	309
2015 AE_{111}	2015 01	29.09534	07 55 57.95	+18 11 46.1	*MPS* 801618	309
2015 AE_{111}	2015 01	29.09654	07 55 57.88	+18 11 46.3	*MPS* 801618	309
2015 AE_{111}	2015 01	29.09775	07 55 57.81	+18 11 46.4	*MPS* 801618	309
2015 AE_{111}	2015 01	29.09896	07 55 57.74	+18 11 46.7	*MPS* 801618	309
2015 AE_{111}	2015 01	29.10017	07 55 57.67	+18 11 46.7	*MPS* 801618	309
2015 AE_{111}	2015 01	29.10138	07 55 57.60	+18 11 46.9	*MPS* 801618	309
2015 AE_{111}	2015 01	29.10260	07 55 57.54	+18 11 47.1	*MPS* 801618	309
2015 AE_{111}	2015 01	29.10381	07 55 57.47	+18 11 47.3	*MPS* 801618	309
2015 AE_{111}	2015 01	29.10502	07 55 57.39	+18 11 47.2	*MPS* 801618	309
2015 AB_{115}	2015 01	16.52597	08 15 40.359	+20 22 28.86	*MPS* 562992	F51
2015 AB_{115}	2015 01	16.53822	08 15 39.584	+20 22 31.11	*MPS* 562992	F51
2015 AB_{115}	2015 01	16.55048	08 15 38.841	+20 22 33.48	*MPS* 562992	F51
2015 AB_{115}	2015 01	16.56277	08 15 38.077	+20 22 36.07	*MPS* 562992	F51
2015 AG_{116}	2015 01	16.52729	08 17 46.241	+18 46 40.17	*MPS* 562993	F51

2015 AG_{116} 2015 01 16.53954 08 17 45.504+18 46 41.51 *MPS* 562993 F51
2015 AG_{116} 2015 01 16.55181 08 17 44.788+18 46 42.63 *MPS* 562993 F51
2015 AG_{116} 2015 01 16.56410 08 17 44.029+18 46 43.96 *MPS* 562993 F51
2015 AK_{139} 2015 01 16.52597 08 15 39.768+20 21 27.06 *MPS* 563013 F51
2015 AK_{139} 2015 01 16.53822 08 15 38.965+20 21 28.78 *MPS* 563013 F51
2015 AK_{139} 2015 01 16.56277 08 15 37.364+20 21 32.28 *MPS* 563013 F51
2015 AB_{151} 2015 01 16.53557 08 40 43.688+22 58 25.94 *MPS* 563023 F51
2015 AB_{151} 2015 01 16.54782 08 40 42.930+22 58 28.15 *MPS* 563023 F51
2015 AB_{151} 2015 01 16.56011 08 40 42.140+22 58 30.58 *MPS* 563023 F51
2015 AB_{151} 2015 01 16.57242 08 40 41.373+22 58 33.57 *MPS* 563023 F51
2015 AE_{201} 2015 01 16.44835 06 41 57.216+31 26 38.73 *MPS* 563066 F51
2015 AE_{201} 2015 01 16.46000 06 41 56.551+31 26 38.63 *MPS* 563066 F51
2015 AE_{201} 2015 01 16.47153 06 41 55.891+31 26 38.29 *MPS* 563066 F51
2015 AG_{268} 2015 01 20.32497 07 08 55.837+26 15 42.90 *MPS* 563129 F51
2015 AG_{268} 2015 01 20.33690 07 08 55.172+26 15 45.01 *MPS* 563129 F51
2015 AG_{268} 2015 01 20.36076 07 08 53.840+26 15 49.21 *MPS* 563129 F51
2015 AV_{272} 2015 01 20.28728 06 55 46.714+22 29 54.38 *MPS* 563134 F51
2015 AV_{272} 2015 01 20.29800 06 55 46.161+22 29 55.29 *MPS* 563134 F51
2015 AV_{272} 2015 01 20.31975 06 55 45.061+22 29 58.63 *MPS* 563134 F51
2015 BT_{10} 2015 01 19.16308 07 50 38.71 +28 26 05.3 *MPS* 563159 G96
2015 BT_{10} 2015 01 19.16944 07 50 38.34 +28 26 06.7 *MPS* 563159 G96
2015 BT_{10} 2015 01 19.17581 07 50 37.89 +28 26 08.5 *MPS* 563159 G96
2015 BT_{10} 2015 01 19.18217 07 50 37.48 +28 26 09.5 *MPS* 563159 G96
2015 BP_{95} 2015 01 20.28794 07 01 07.420+22 49 29.14 *MPS* 563253 F51
2015 BP_{95} 2015 01 20.30959 07 01 06.274+22 49 32.04 *MPS* 563254 F51
2015 BP_{95} 2015 01 20.32041 07 01 05.674+22 49 33.61 *MPS* 563254 F51
2015 BS_{95} 2015 01 20.33358 07 30 42.659+25 47 13.59 *MPS* 563254 F51
2015 BS_{95} 2015 01 20.34550 07 30 41.985+25 47 13.07 *MPS* 563254 F51
2015 BS_{95} 2015 01 20.35744 07 30 41.337+25 47 12.79 *MPS* 563254 F51
2015 BS_{95} 2015 01 20.36941 07 30 40.680+25 47 12.39 *MPS* 563254 F51
2015 BT_{95} 2015 01 20.33358 07 30 22.896+25 40 04.19 *MPS* 563254 F51
2015 BT_{95} 2015 01 20.34550 07 30 22.195+25 40 03.05 *MPS* 563254 F51
2015 BT_{95} 2015 01 20.36941 07 30 20.780+25 40 00.59 *MPS* 563254 F51
2015 BN_{96} 2015 01 20.28594 07 07 06.379+17 34 41.39 *MPS* 563254 F51
2015 BN_{96} 2015 01 20.29668 07 07 05.777+17 34 42.93 *MPS* 563254 F51
2015 BN_{96} 2015 01 20.30760 07 07 05.177+17 34 44.54 *MPS* 563254 F51
2015 BB_{97} 2015 01 22.34069 07 52 53.35 +20 45 39.5 *MPS* 563255 703
2015 BB_{97} 2015 01 22.34569 07 52 53.07 +20 45 40.0 *MPS* 563255 703
2015 BB_{97} 2015 01 22.35571 07 52 52.36 +20 45 40.7 *MPS* 563255 703
2015 BV_{98} 2015 01 21.16657 06 35 30.24 +35 41 34.7 *MPS* 563257 G96
2015 BV_{98} 2015 01 21.17093 06 35 30.02 +35 41 35.3 *MPS* 563257 G96
2015 BV_{98} 2015 01 21.17530 06 35 29.81 +35 41 35.9 *MPS* 563257 G96
2015 BV_{98} 2015 01 21.17965 06 35 29.61 +35 41 36.1 *MPS* 563257 G96
2015 BV_{109} 2015 01 20.32895 07 41 10.201+30 55 13.58 *MPS* 563268 F51
2015 BV_{109} 2015 01 20.34087 07 41 09.489+30 55 16.76 *MPS* 563268 F51
2015 BV_{109} 2015 01 20.35279 07 41 08.773+30 55 20.15 *MPS* 563268 F51
2015 BV_{109} 2015 01 20.36472 07 41 08.077+30 55 23.34 *MPS* 563268 F51
2015 BA_{124} 2015 01 20.37309 08 59 20.320+17 49 43.10 *MPS* 563283 F51
2015 BA_{124} 2015 01 20.38512 08 59 19.592+17 49 45.88 *MPS* 563283 F51
2015 BA_{124} 2015 01 20.39717 08 59 18.838+17 49 48.99 *MPS* 563283 F51
2015 BA_{124} 2015 01 20.40942 08 59 18.092+17 49 51.38 *MPS* 563283 F51
2015 BT_{147} 2015 01 20.39239 09 42 32.771+19 19 11.07 *MPS* 563311 F51
2015 BT_{147} 2015 01 20.40444 09 42 32.284+19 19 16.64 *MPS* 563311 F51
2015 BT_{147} 2015 01 20.41671 09 42 31.737+19 19 21.96 *MPS* 563311 F51
2015 BS_{148} 2015 01 20.37967 09 48 11.583+17 50 25.83 *MPS* 563312 F51
2015 BS_{148} 2015 01 20.39174 09 48 11.015+17 50 28.39 *MPS* 563312 F51
2015 BS_{148} 2015 01 20.40379 09 48 10.456+17 50 30.78 *MPS* 563312 F51
2015 BS_{148} 2015 01 20.41605 09 48 09.877+17 50 33.51 *MPS* 563312 F51
2015 BC_{202} 2015 01 20.37967 09 48 16.291+17 51 20.38 *MPS* 563370 F51
2015 BC_{202} 2015 01 20.39174 09 48 15.704+17 51 23.51 *MPS* 563370 F51
2015 BC_{202} 2015 01 20.41605 09 48 14.502+17 51 30.07 *MPS* 563370 F51
2015 BZ_{305} 2015 01 21.25078 07 29 10.28 +36 36 30.0 *MPS* 563470 G96
2015 BZ_{305} 2015 01 21.25360 07 29 10.11 +36 36 29.8 *MPS* 563470 G96
2015 BZ_{305} 2015 01 21.25644 07 29 09.92 +36 36 30.4 *MPS* 563470 G96
2015 BZ_{305} 2015 01 21.25927 07 29 09.75 +36 36 30.9 *MPS* 563470 G96
2015 BH_{315} 2015 01 22.39339 09 01 19.036+21 29 48.52 *MPS* 567745 F51
2015 BH_{315} 2015 01 22.41765 09 01 17.694+21 29 53.72 *MPS* 567745 F51
2015 BH_{315} 2015 01 22.42981 09 01 17.013+21 29 56.15 *MPS* 567745 F51
2015 BM_{320} 2015 01 22.39668 09 22 54.840+19 48 51.12 *MPS* 567749 F51
2015 BM_{320} 2015 01 22.40883 09 22 54.152+19 48 53.55 *MPS* 567749 F51
2015 BM_{320} 2015 01 22.42099 09 22 53.495+19 48 55.90 *MPS* 567749 F51
2015 BE_{321} 2015 01 22.40883 09 22 57.769+19 47 09.75 *MPS* 567750 F51
2015 BE_{321} 2015 01 22.42099 09 22 57.151+19 47 12.46 *MPS* 567750 F51
2015 BE_{321} 2015 01 22.43318 09 22 56.494+19 47 15.34 *MPS* 567750 F51
2015 BK_{323} 2015 01 22.39799 09 27 03.692+24 50 31.27 *MPS* 567752 F51
2015 BK_{323} 2015 01 22.42232 09 27 02.060+24 50 36.39 *MPS* 567752 F51
2015 BK_{323} 2015 01 22.43449 09 27 01.244+24 50 39.06 *MPS* 567752 F51
2015 BO_{326} 2015 01 22.40132 09 44 22.554+20 18 32.70 *MPS* 567755 F51
2015 BO_{326} 2015 01 22.41349 09 44 21.982+20 18 37.58 *MPS* 567755 F51
2015 BO_{326} 2015 01 22.42564 09 44 21.424+20 18 42.85 *MPS* 567755 F51
2015 BN_{340} 2015 01 22.40066 09 39 48.757+18 33 48.48 *MPS* 567767 F51
2015 BN_{340} 2015 01 22.41283 09 39 48.135+18 33 51.50 *MPS* 567767 F51
2015 BN_{340} 2015 01 22.42498 09 39 47.505+18 33 54.36 *MPS* 567767 F51
2015 BN_{340} 2015 01 22.43717 09 39 46.872+18 33 57.56 *MPS* 567767 F51
2015 BD_{354} 2015 01 22.44315 10 07 20.041+09 45 12.43 *MPS* 567780 F51
2015 BD_{354} 2015 01 22.45673 10 07 19.527+09 45 16.58 *MPS* 567780 F51
2015 BD_{354} 2015 01 22.47035 10 07 19.009+09 45 20.69 *MPS* 567780 F51
2015 BD_{354} 2015 01 22.48403 10 07 18.504+09 45 25.01 *MPS* 567780 F51
2015 BJ_{355} 2015 01 22.50867 11 00 51.402−13 48 37.45 *MPS* 567781 F51
2015 BJ_{355} 2015 01 22.52125 11 00 51.171−13 48 40.50 *MPS* 567781 F51
2015 BJ_{355} 2015 01 22.53382 11 00 50.890−13 48 43.51 *MPS* 567781 F51
2015 BJ_{355} 2015 01 22.54640 11 00 50.680−13 48 46.74 *MPS* 567781 F51
2015 BD_{357} 2015 01 22.39273 09 01 21.658+23 03 39.35 *MPS* 567783 F51
2015 BD_{357} 2015 01 22.41699 09 01 20.483+23 03 48.37 *MPS* 567783 F51
2015 BD_{357} 2015 01 22.42913 09 01 19.868+23 03 52.82 *MPS* 567783 F51
2015 BN_{385} 2015 01 22.40816 09 17 35.637+17 55 48.17 *MPS* 567807 F51
2015 BN_{385} 2015 01 22.42030 09 17 35.074+17 55 50.65 *MPS* 567807 F51
2015 BN_{385} 2015 01 22.43248 09 17 34.481+17 55 53.33 *MPS* 567807 F51
2015 BY_{388} 2015 01 22.39799 09 23 24.888+23 20 24.24 *MPS* 567809 F51
2015 BY_{388} 2015 01 22.41015 09 23 24.272+23 20 26.00 *MPS* 567809 F51
2015 BY_{388} 2015 01 22.42232 09 23 23.629+23 20 27.54 *MPS* 567809 F51
2015 BR_{420} 2015 01 22.46003 10 18 46.590+10 40 10.34 *MPS* 567837 F51
2015 BR_{420} 2015 01 22.47367 10 18 46.068+10 40 10.84 *MPS* 567837 F51
2015 BR_{420} 2015 01 22.48739 10 18 45.554+10 40 11.44 *MPS* 567837 F51
2015 BJ_{430} 2015 01 22.44928 10 26 37.940+16 06 59.18 *MPS* 567846 F51
2015 BJ_{430} 2015 01 22.46287 10 26 37.575+16 07 04.38 *MPS* 567846 F51

2015 BJ_{430}	2015 01 22.47652	10 26 37.188	+16 07 09.57	*MPS* 567846		F51
2015 BJ_{430}	2015 01 22.49021	10 26 36.800	+16 07 14.77	*MPS* 567846		F51
2015 BW_{561}	2015 01 21.25078	07 29 13.24	+36 36 26.6	*MPS* 888777		G96
2015 BW_{561}	2015 01 21.25360	07 29 13.07	+36 36 26.8	*MPS* 888777		G96
2015 BW_{561}	2015 01 21.25644	07 29 12.88	+36 36 27.0	*MPS* 888777		G96
2015 BW_{561}	2015 01 21.25927	07 29 12.69	+36 36 27.5	*MPS* 888777		G96
2015 CO_{65}	2015 01 16.53623	08 52 50.150	+24 06 42.77	*MPS* 839339		F51
2015 CO_{65}	2015 01 16.54848	08 52 49.485	+24 06 44.45	*MPS* 839339		F51
2015 CO_{65}	2015 01 16.57307	08 52 48.136	+24 06 47.37	*MPS* 839339		F51
2015 KE_1	2015 01 20.60846	12 35 45.392	−13 41 53.76	*MPS* 612726		F51
2015 KE_1	2015 01 20.61972	12 35 45.714	−13 42 01.16	*MPS* 612726		F51
2015 KE_1	2015 01 20.63097	12 35 46.054	−13 42 08.50	*MPS* 612726		F51
2015 KE_1	2015 01 22.60784	12 36 44.408	−14 03 26.92	*MPS* 612726		F51
2015 KE_1	2015 01 22.61910	12 36 44.701	−14 03 33.98	*MPS* 612726		F51
2015 KE_1	2015 01 22.64167	12 36 45.306	−14 03 48.89	*MPS* 612726		F51
2016 NC_{152}	2021 08 05.48566	22 49 38.80	−03 59 16.1	*MPS*1446222		F51
2016 NC_{152}	2021 08 05.49692	22 49 38.34	−03 59 16.2	*MPS*1446222		F51
2016 NC_{152}	2021 08 05.50816	22 49 37.87	−03 59 16.5	*MPS*1446222		F51
2016 NC_{152}	2021 08 05.51943	22 49 37.40	−03 59 16.7	*MPS*1446222		F51
2016 RR_{80}	2021 08 05.48294	22 34 35.11	−02 01 52.6	*MPS*1446295		F51
2016 RR_{80}	2021 08 05.49423	22 34 34.66	−02 01 52.6	*MPS*1446295		F51
2016 RR_{80}	2021 08 05.50547	22 34 34.19	−02 01 52.8	*MPS*1446295		F51
2016 SL_{67}	2021 07 31.45419	22 20 57.85	−26 48 44.6	*MPS*1446302		F51
2016 SL_{67}	2021 07 31.46455	22 20 57.32	−26 48 44.8	*MPS*1446302		F51
2016 SL_{67}	2021 07 31.47495	22 20 56.76	−26 48 45.1	*MPS*1446302		F51
2016 SL_{67}	2021 07 31.48535	22 20 56.24	−26 48 44.9	*MPS*1446302		F51
2016 UU_{128}	2016 10 26.38420	02 32 38.12	+13 27 02.7	*MPS*1151484		F51
2016 UU_{128}	2016 10 27.50352	02 31 41.33	+13 21 20.4	*MPS*1151484		F51
2016 UE_{176}	2016 10 28.51629	01 58 20.74	+08 49 40.5	*MPS*1151618		F51
2016 UE_{176}	2016 10 28.52283	01 58 20.37	+08 49 39.1	*MPS*1151618		F51
2016 UE_{176}	2016 10 28.52938	01 58 20.00	+08 49 37.8	*MPS*1151618		F51
2016 UT_{187}	2016 10 28.49409	02 01 33.78	+14 40 10.3	*MPS*1151682		F51
2016 UT_{187}	2016 10 28.50062	02 01 33.42	+14 40 08.7	*MPS*1151682		F51
2016 UT_{187}	2016 10 28.51384	02 01 32.68	+14 40 05.8	*MPS*1151682		F51
2016 UB_{213}	2016 10 29.36610	02 15 17.19	+13 09 18.7	*MPS*1151810		F51
2016 UB_{213}	2016 10 29.38646	02 15 16.18	+13 09 14.2	*MPS*1151810		F51
2016 UB_{213}	2016 10 29.50222	02 15 10.35	+13 08 49.8	*MPS*1151810		F51
2016 UB_{213}	2016 10 29.50880	02 15 10.02	+13 08 48.5	*MPS*1151810		F51
2016 UB_{213}	2016 10 29.51535	02 15 09.69	+13 08 46.9	*MPS*1151810		F51
2016 UH_{271}	2021 08 05.48294	22 37 42.74	−02 18 00.6	*MPS*1446364		F51
2016 UH_{271}	2021 08 05.49423	22 37 42.31	−02 18 00.5	*MPS*1446364		F51
2016 UH_{271}	2021 08 05.50547	22 37 41.88	−02 18 00.6	*MPS*1446364		F51
2016 UH_{271}	2021 08 05.51675	22 37 41.47	−02 18 00.7	*MPS*1446364		F51
2018 VY_{138}	2010 03 02.67561	16 46 29.95	−19 47 26.9	*MPS*1383992		C51
Geocentric position (km)		− 2762.5409	− 5915.5697	− 2266.9228		
2018 VY_{138}	2010 03 02.74170	16 46 32.87	−19 47 48.2	*MPS*1383992		C51
Geocentric position (km)		− 2756.2176	− 5935.2934	− 2222.3713		
2019 AQ_3	2019 01 07.677130	21 41 47.80	+04 35 59.0	*MPS*1124986		L54
2019 AQ_3	2019 01 07.691734	21 41 47.53	+04 36 46.6	*MPS*1124986		L54
2019 AQ_3	2019 01 07.698527	21 41 47.15	+04 37 22.6	*MPS*1124986		L54
2021 NN_{15}	2017 12 17.48988	06 11 12.72	+27 48 39.2	*MPS*1442168		I41
2021 PR_2	2021 08 09.83032	19 58 44.55	−03 27 51.6	*MPS*1442182		033
2021 PR_2	2021 08 09.83060	19 58 44.58	−03 27 51.8	*MPS*1442183		033
2021 PR_2	2021 08 09.83089	19 58 44.61	−03 27 51.8	*MPS*1442183		033
2021 PR_2	2021 08 09.85976	19 58 47.51	−03 28 16.1	*MPS*1442183		033
2021 PR_2	2021 08 09.86045	19 58 47.50	−03 28 15.9	*MPS*1442183		033
2021 PR_2	2021 08 09.86114	19 58 47.50	−03 28 16.2	*MPS*1442183		033
2021 PH_{27}	2021 08 30.731404	12 25 35.525	−10 09 33.29	*MPS*1447148		L80
2021 PH_{27}	2021 08 30.737309	12 25 36.248	−10 09 42.52	*MPS*1447148		L80
2021 QH_1	2021 09 02.807147	16 57 28.177	+15 05 13.78	*MPS*1447216		L80
2021 QH_1	2021 09 02.812786	16 57 27.524	+15 06 26.99	*MPS*1447216		L80
(39978)	2019 07 07.323374	18 51 51.52	−52 58 42.0	*MPS*1421139		C57
Geocentric position (km)		+97113.5730	+318809.510	+61279.4530		
(39978)	2019 07 07.344208	18 51 49.94	−52 58 47.3	*MPS*1421139		C57
Geocentric position (km)		+96216.6550	+320074.152	+61054.0350		
(39978)	2019 07 07.385874	18 51 46.93	−52 58 59.4	*MPS*1421139		C57
Geocentric position (km)		+94413.4420	+322571.867	+60597.2290		
(39978)	2019 07 07.531708	18 51 36.32	−52 59 39.3	*MPS*1421139		C57
Geocentric position (km)		+88009.3200	+330986.685	+58938.1310		
(39978)	2019 07 07.719208	18 51 22.90	−53 00 36.7	*MPS*1421139		C57
Geocentric position (km)		+79584.6030	+341074.724	+56676.4920		
(39978)	2019 07 07.865041	18 51 12.36	−53 01 13.4	*MPS*1421139		C57
Geocentric position (km)		+72903.2040	+348368.051	+54825.9820		
(39978)	2019 07 07.969207	18 51 04.90	−53 01 45.6	*MPS*1421139		C57
Geocentric position (km)		+68070.5030	+353288.451	+53459.0000		
(82256)	2019 07 15.344204	18 56 02.24	−52 54 44.5	*MPS*1423353		C57
Geocentric position (km)		−208902.541	+190611.720	−59063.1410		
(82256)	2019 07 15.490038	18 55 48.09	−52 56 14.7	*MPS*1423353		C57
Geocentric position (km)		−208599.276	+176930.852	−59991.5480		
(82256)	2019 07 15.552538	18 55 42.05	−52 56 55.5	*MPS*1423353		C57
Geocentric position (km)		−208288.383	+170913.563	−60336.5630		
(497558)	2020 04 20.44176	13 12 06.899	−18 02 28.46	*MPS*1410770		F52

IDENTIFICATION CHANGES

Continuation to *MPC* 132211.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N	Obs.
1994 DZ	*1994 02 16.11098	07 51 28.85	+10 17 53.3	2017 BQ_{68}	16.9	V		691
1994 DZ	1994 02 16.13538	07 51 28.65	+10 18 14.8	2017 BQ_{68}				691
1999 TD_{343}	*1999 10 13.21144	01 37 18.50	+14 07 26.4	1999 TK_{307}	20.5	V		691
1999 TD_{343}	1999 10 13.21722	01 37 18.11	+14 07 24.7	1999 TK_{307}	20.4	V		691
1999 TD_{343}	1999 10 13.22440	01 37 17.64	+14 07 22.5	1999 TK_{307}	20.7	V		691
1999 TE_{343}	*1999 10 11.24932	00 39 15.79	+02 44 07.1	1999 TB_{303}	20.5	V		691
1999 TE_{343}	1999 10 11.27043	00 39 14.70	+02 43 59.1	1999 TB_{303}	20.5	V		691
1999 TE_{343}	1999 10 11.29251	00 39 13.56	+02 43 50.9	1999 TB_{303}	20.8	V		691
1999 UX_{66}	*1999 10 16.359200	23 34 50.126	−01 15 11.16	1999 TP_{50}	21.40	V		645
1999 UX_{66}	1999 10 16.362672	23 34 50.020	−01 15 11.92	1999 TP_{50}	22.35			645
1999 UY_{66}	*1999 10 16.17926	23 21 10.46	−00 37 04.0	1999 TN_{312}	21.7	V		691
1999 UY_{66}	1999 10 16.19258	23 21 10.17	−00 37 08.2	1999 TN_{312}	21.1	V		691
1999 UY_{66}	1999 10 16.20378	23 21 09.86	−00 37 10.4	1999 TN_{312}	22.1	V		691
1999 UZ_{66}	*1999 10 19.33785	02 06 34.72	+11 35 39.8	1999 TJ_{317}	20.9	V		691
1999 UZ_{66}	1999 10 19.36111	02 06 33.19	+11 35 37.9	1999 TJ_{317}	20.7	V		691
1999 UZ_{66}	1999 10 19.38258	02 06 31.77	+11 35 36.7	1999 TJ_{317}	21.1	V		691
1999 VK_{234}	*1999 11 14.30415	01 58 46.27	+12 06 49.2	1999 VC_{221}	20.4	V		691
1999 VK_{234}	1999 11 14.32573	01 58 45.43	+12 06 42.7	1999 VC_{221}	20.5	V		691

1999 VK_{234}	1999 11 14.34736	01 58 44.58	+12 06 36.4	1999 VC_{221}	20.6	V	691
1999 WG_{29}	*1999 11 16.24964	03 21 08.96	+15 18 33.8	1999 VA_{152}	21.8	V	691
1999 WG_{29}	1999 11 16.25826	03 21 08.46	+15 18 32.7	1999 VA_{152}	21.3	V	691
1999 WG_{29}	1999 11 16.26848	03 21 07.84	+15 18 30.8	1999 VA_{152}	21.9	V	691
1999 XZ_{266}	*1999 12 13.07662	02 50 39.54	+14 55 27.8	1999 XK_{232}	21.0	V	691
1999 XZ_{266}	1999 12 13.09898	02 50 39.03	+14 55 23.7	1999 XK_{232}	21.2	V	691
1999 XZ_{266}	1999 12 13.12061	02 50 38.53	+14 55 20.3	1999 XK_{232}	22.0	V	691
1999 YT_{30}	*1999 12 18.32235	07 57 20.54	+22 52 48.1	1999 XQ_{260}	21.0	V	691
1999 YT_{30}	1999 12 18.34476	07 57 19.78	+22 52 53.6	1999 XQ_{260}	21.5	V	691
1999 YT_{30}	1999 12 18.36726	07 57 19.00	+22 52 58.4	1999 XQ_{260}	21.4	V	691
1999 YU_{30}	*1999 12 31.60211	08 41 34.79	+19 04 44.8	1999 YF_{20}			568
1999 YU_{30}	1999 12 31.62312	08 41 33.75	+19 04 47.8	1999 YF_{20}			568
1999 YV_{30}	*1999 12 31.60211	08 41 57.18	+18 59 47.6	1999 YG_{20}			568
1999 YV_{30}	1999 12 31.62312	08 41 56.34	+18 59 48.2	1999 YG_{20}			568
1999 YW_{30}	*1999 12 31.60211	08 42 27.85	+19 05 20.3	1999 YO_{20}			568
1999 YW_{30}	1999 12 31.62312	08 42 27.09	+19 05 26.3	1999 YO_{20}			568
1999 YX_{30}	*1999 12 31.61208	08 56 32.83	+18 04 45.5	1999 YR_{21}			568
1999 YX_{30}	1999 12 31.63278	08 56 31.94	+18 04 48.0	1999 YR_{21}			568
1999 YY_{30}	*1999 12 31.61208	08 57 01.24	+18 07 18.3	1999 YW_{21}			568
1999 YY_{30}	1999 12 31.63278	08 57 00.48	+18 07 23.3	1999 YW_{21}			568
2000 AC_{260}	*2000 01 07.49159	10 35 50.62	+07 44 57.6	2000 AS_{207}	20.7	V	691
2000 AC_{260}	2000 01 07.49563	10 35 50.73	+07 44 57.8	2000 AS_{207}	20.4	V	691
2000 AC_{260}	2000 01 07.49980	10 35 50.75	+07 44 57.4	2000 AS_{207}	20.8	V	691
2000 CH_{157}	*2000 02 07.36039	09 36 50.50	+15 02 57.1	2000 BJ_{46}	21.4	V	691
2000 CH_{157}	2000 02 07.38207	09 36 49.20	+15 03 04.5	2000 BJ_{46}	21.1	V	691
2000 CH_{157}	2000 02 07.40389	09 36 47.87	+15 03 11.5	2000 BJ_{46}	21.2	V	691
2000 CJ_{157}	*2000 02 12.16751	08 08 19.15	+20 41 14.9	2000 CU_{120}	21.1	V	691
2000 CJ_{157}	2000 02 12.17231	08 08 18.90	+20 41 16.0	2000 CU_{120}	21.1	V	691
2000 CJ_{157}	2000 02 12.17711	08 08 18.73	+20 41 17.2	2000 CU_{120}	21.5	V	691
2000 EQ_{212}	*2000 03 10.19710	09 54 28.40	+13 23 31.0	2000 EC_{199}	21.3	V	691
2000 EQ_{212}	2000 03 10.21848	09 54 27.50	+13 23 37.9	2000 EC_{199}	21.7	V	691
2000 EQ_{212}	2000 03 10.24027	09 54 26.59	+13 23 46.5	2000 EC_{199}	21.1	V	691
2000 GL_{189}	*2000 04 07.30104	12 59 03.84	−06 47 19.7	2000 FU_{64}	21.1	V	691
2000 GL_{189}	2000 04 07.30514	12 59 03.63	−06 47 17.4	2000 FU_{64}	21.4	V	691
2000 GL_{189}	2000 04 07.30898	12 59 03.44	−06 47 16.1	2000 FU_{64}	21.3	V	691
2000 GM_{189}	*2000 04 07.30127	12 59 24.54	−06 52 59.7	2000 FV_{64}	21.5	V	691
2000 GM_{189}	2000 04 07.30537	12 59 24.33	−06 52 57.5	2000 FV_{64}	22.0	V	691
2000 GM_{189}	2000 04 07.30922	12 59 24.18	−06 52 56.1	2000 FV_{64}	21.7	V	691
2000 GN_{189}	*2000 04 08.31968	12 41 02.61	−03 01 23.2	2000 GU_{147}	22.3	V	691
2000 GN_{189}	2000 04 08.32615	12 41 02.18	−03 01 24.1	2000 GU_{147}	22.3	V	691
2000 GN_{189}	2000 04 08.33237	12 41 01.77	−03 01 24.3	2000 GU_{147}	21.9	V	691
2000 UM_{116}	*2000 10 25.22856	00 46 53.53	+11 43 25.7	2000 RD_{59}	19.2		704
2000 UM_{116}	2000 10 25.24235	00 46 52.83	+11 43 24.4	2000 RD_{59}	19.5		704
2000 UM_{116}	2000 10 25.25623	00 46 52.15	+11 43 23.4	2000 RD_{59}	20.1		704
2000 UN_{116}	*2000 10 21.27877	01 37 02.61	+11 54 52.6	2000 UW_{110}	21.9	V	691
2000 UN_{116}	2000 10 21.28323	01 37 02.35	+11 54 51.7	2000 UW_{110}	22.4	V	691
2000 UN_{116}	2000 10 21.28718	01 37 02.14	+11 54 51.1	2000 UW_{110}	21.9	V	691
2000 YU_{146}	*2000 12 21.13781	00 53 30.18	+11 43 27.8	2000 YE_{141}	22.5	R	695
2000 YU_{146}	2000 12 21.15003	00 53 30.42	+11 43 29.8	2000 YE_{141}	23.1	R	695
2000 YU_{146}	2000 12 21.16609	00 53 30.86	+11 43 33.5	2000 YE_{141}	23.0	R	695
2000 YU_{146}	2000 12 21.17843	00 53 31.11	+11 43 35.8	2000 YE_{141}	22.6	R	695
2001 FY_{248}	*2001 03 23.23791	12 03 11.07	+00 36 01.8	2001 FZ_{232}	23.0	R	695
2001 FY_{248}	2001 03 23.25072	12 03 10.42	+00 36 05.1	2001 FZ_{232}	23.1	R	695
2001 FY_{248}	2001 03 23.26112	12 03 09.92	+00 36 08.3	2001 FZ_{232}	22.8	R	695
2001 FY_{248}	2001 03 23.26362	12 03 09.86	+00 36 08.9	2001 FZ_{232}	23.0	V	695
2001 FZ_{248}	*2001 03 22.29059	12 07 27.63	−00 39 38.5	2001 FR_{233}	22.8	R	695
2001 FZ_{248}	2001 03 22.30184	12 07 27.05	−00 39 34.8	2001 FR_{233}	22.5	R	695
2001 FZ_{248}	2001 03 22.31291	12 07 26.50	−00 39 31.3	2001 FR_{233}	22.4	R	695
2001 FA_{249}	*2001 03 23.32627	12 06 56.56	−00 00 24.8	2001 FU_{233}	22.1	R	695
2001 FA_{249}	2001 03 23.33592	12 06 55.97	−00 00 22.0	2001 FU_{233}	22.0	R	695
2001 FA_{249}	2001 03 23.34566	12 06 55.38	−00 00 19.3	2001 FU_{233}	22.2	R	695
2001 FA_{249}	2001 03 23.34816	12 06 55.24	−00 00 18.4	2001 FU_{233}	22.6	V	695
2001 FB_{249}	*2001 03 31.19776	11 54 26.33	−00 35 12.7	2001 FK_{242}	21.9	R	695
2001 FB_{249}	2001 03 31.20757	11 54 25.71	−00 35 09.5	2001 FK_{242}			695
2001 FB_{249}	2001 03 31.22292	11 54 24.74	−00 35 04.0	2001 FK_{242}	21.9	R	695
2001 FB_{249}	2001 03 31.22542	11 54 24.57	−00 35 04.0	2001 FK_{242}	22.5	V	695
2001 HH_{71}	*2001 04 27.48170	14 45 34.58	−18 16 34.3	2001 HW_{18}	19.3		608
2001 HH_{71}	2001 04 27.49265	14 45 33.59	−18 16 48.6	2001 HW_{18}	19.2		608
2001 HH_{71}	2001 04 27.50349	14 45 32.64	−18 17 03.0	2001 HW_{18}	19.6		608
2001 HJ_{71}	*2001 04 23.32975	12 42 54.91	−05 14 37.5	2001 HC_{48}	20.5	V	691
2001 HJ_{71}	2001 04 23.33360	12 42 54.78	−05 14 34.3	2001 HC_{48}	20.4	V	691
2001 HJ_{71}	2001 04 23.33756	12 42 54.62	−05 14 31.1	2001 HC_{48}	21.0	V	691
2001 KP_{89}	*2001 05 24.31918	22 01 38.60	−11 27 39.4	2001 QY_{224}	21.7	R	807
2001 KP_{89}	2001 05 24.37121	22 01 41.89	−11 27 25.2	2001 QY_{224}			807
2001 OO_{115}	*2001 07 19.30394	21 21 58.11	−22 37 48.5	2001 QP_{301}	20.4		644
2001 OO_{115}	2001 07 19.31474	21 21 57.59	−22 37 50.4	2001 QP_{301}	20.8		644
2001 OO_{115}	2001 07 19.32557	21 21 57.07	−22 37 51.7	2001 QP_{301}	21.1		644
2001 QP_{339}	*2001 08 23.06560	23 25 39.17	−03 31 47.3	2001 SY_{84}	19.2		586
2001 QP_{339}	2001 08 23.06744	23 25 39.05	−03 31 47.7	2001 SY_{84}	20.0		586
2001 QP_{339}	2001 08 23.06930	23 25 38.99	−03 31 47.4	2001 SY_{84}	19.8		586
2001 RO_{158}	*2001 09 15.10660	22 29 55.18	−11 19 55.9	2001 RW_{43}	18.5	R	734
2001 RO_{158}	2001 09 15.12598	22 29 54.07	−11 19 56.4	2001 RW_{43}	19.3	R	734
2001 SZ_{364}	*2001 09 25.23279	23 16 42.37	−06 16 21.5	2001 QL_{144}	21.8	V	691
2001 SZ_{364}	2001 09 25.25398	23 16 41.33	−06 16 31.0	2001 QL_{144}	21.5	V	691
2001 SZ_{364}	2001 09 25.27563	23 16 40.25	−06 16 42.0	2001 QL_{144}	21.2	V	691
2001 SA_{365}	*2001 09 21.25577	00 00 32.12	−02 25 18.1	2001 SW_{202}	19.4		704
2001 SA_{365}	2001 09 21.29820	00 00 30.02	−02 25 30.7	2001 SW_{202}	19.5		704
2001 SA_{365}	2001 09 21.31235	00 00 29.31	−02 25 33.7	2001 SW_{202}	19.5		704
2001 TY_{269}	*2001 10 15.267370	22 56 24.639	−00 00 08.51	2001 SD_{89}	21.54	V	645
2001 TY_{269}	2001 10 15.270842	22 56 24.565	−00 00 09.05	2001 SD_{89}	22.25		645
2002 CD_{329}	*2002 02 07.18063	08 58 32.54	+19 36 35.9	2002 AQ_{209}	21.6	V	691
2002 CD_{329}	2002 02 07.20317	08 58 31.41	+19 36 45.0	2002 AQ_{209}	22.2	V	691
2002 CD_{329}	2002 02 07.22595	08 58 30.27	+19 36 53.7	2002 AQ_{209}	21.7	V	691
2002 CE_{329}	*2002 02 13.46278	11 43 50.97	+01 04 13.7	2002 CC_{225}	21.0	V	691
2002 CE_{329}	2002 02 13.48451	11 43 50.20	+01 04 17.1	2002 CC_{225}	21.8	V	691
2002 CE_{329}	2002 02 13.50571	11 43 49.38	+01 04 21.6	2002 CC_{225}	21.5	V	691
2002 CE_{329}	2002 02 18.66230	11 40 27.09	+01 23 26.3	2002 CC_{225}	20.4	R	344
2002 CE_{329}	2002 02 18.66664	11 40 26.91	+01 23 27.7	2002 CC_{225}	21.2	R	344
2002 CE_{329}	2002 02 18.69101	11 40 25.81	+01 23 33.4	2002 CC_{225}	20.9	R	344
2002 FO_{44}	*2002 03 23.12617	10 33 19.29	+13 02 17.1	2002 GR_{31}	21.4	V	691
2002 FO_{44}	2002 03 23.14746	10 33 18.28	+13 02 15.5	2002 GR_{31}	21.6	V	691
2002 FO_{44}	2002 03 23.16879	10 33 17.28	+13 02 14.9	2002 GR_{31}	21.0	V	691
2002 NH_{84}	*2002 07 12.29691	20 59 16.82	−08 22 58.5	2002 ON_{33}	20.3	R	644
2002 NH_{84}	2002 07 12.30757	20 59 16.38	−08 22 56.8	2002 ON_{33}	20.2	R	644
2002 NH_{84}	2002 07 12.32391	20 59 15.76	−08 22 55.0	2002 ON_{33}	21.1	R	644
2002 NJ_{84}	*2002 07 04.42715	20 59 03.06	−14 16 59.0	2002 PU_{197}			644

2002 NJ_{84}	2002 07 04.43762	20 59 02.69	−14 17 00.3	2002 PU_{197}			644
2002 OV_{38}	*2002 07 22.23074	20 21 09.90	−18 29 15.7	2002 PK_{192}	19.7	R	644
2002 OV_{38}	2002 07 22.23304	20 21 09.84	−18 29 15.7	2002 PK_{192}	20.3	R	644
2002 PG_{206}	*2002 08 11.44389	23 01 17.42	−14 33 48.0	2002 QY_{105}	20.0	R	608
2002 PG_{206}	2002 08 11.45427	23 01 17.13	−14 33 55.7	2002 QY_{105}	20.0	R	608
2002 QQ_{160}	*2002 08 25.20767	20 59 26.64	−03 17 02.9	2002 PZ_{196}	20.4	R	644
2002 QQ_{160}	2002 08 25.22995	20 59 25.87	−03 17 09.5	2002 PZ_{196}	20.2	R	644
2002 QQ_{160}	2002 08 25.25115	20 59 25.08	−03 17 16.3	2002 PZ_{196}	20.6	R	644
2002 QR_{160}	*2002 08 18.42563	22 16 29.59	−16 49 52.7	2002 QN_{131}			644
2002 QR_{160}	2002 08 18.43652	22 16 28.98	−16 49 57.9	2002 QN_{131}			644
2002 QR_{160}	2002 08 18.44687	22 16 28.32	−16 50 02.5	2002 QN_{131}	20.5	R	644
2002 RT_{301}	*2002 09 04.43852	22 50 59.62	+06 18 11.7	2002 QT_{142}			644
2002 RT_{301}	2002 09 04.45978	22 50 58.61	+06 18 08.3	2002 QT_{142}	20.2	R	644
2002 RT_{301}	2002 09 04.48105	22 50 57.57	+06 18 03.6	2002 QT_{142}	20.1	R	644
2002 RT_{301}	2002 09 12.26200	22 44 59.08	+05 48 25.0	2002 QT_{142}	20.3	R	644
2002 RT_{301}	2002 09 12.29014	22 44 57.79	+05 48 18.4	2002 QT_{142}	20.9	R	644
2002 RT_{301}	2002 09 12.32682	22 44 56.10	+05 48 09.1	2002 QT_{142}	20.3	R	644
2002 RU_{301}	*2002 09 15.25081	22 08 27.70	−15 40 12.7	2002 QM_{143}	20.7	R	644
2002 RU_{301}	2002 09 15.27204	22 08 26.69	−15 40 11.7	2002 QM_{143}	21.1	R	644
2002 RU_{301}	2002 09 15.29307	22 08 25.66	−15 40 09.7	2002 QM_{143}	20.5	R	644
2002 RV_{301}	*2002 09 12.50376	00 23 59.32	+14 56 03.5	2002 RR_{292}	20.6	R	644
2002 RV_{301}	2002 09 12.51429	00 23 58.96	+14 56 00.9	2002 RR_{292}	19.2	R	644
2002 TZ_{394}	*2002 10 04.17293	23 58 12.32	+15 33 56.6	2002 RB_{292}	20.5	R	644
2002 TZ_{394}	2002 10 04.18346	23 58 11.87	+15 33 54.2	2002 RB_{292}	20.5	R	644
2002 TZ_{394}	2002 10 04.19514	23 58 11.27	+15 33 51.9	2002 RB_{292}	20.3	R	644
2002 TA_{395}	*2002 10 15.35680	01 21 46.61	+00 27 17.7	2002 TS_{305}	19.6		644
2002 TA_{395}	2002 10 15.37723	01 21 45.44	+00 27 15.3	2002 TS_{305}	19.8		644
2002 TA_{395}	2002 10 15.40248	01 21 44.03	+00 27 12.3	2002 TS_{305}	19.7		644
2002 TA_{395}	2002 10 31.249130	01 08 47.832	+00 16 14.35	2002 TS_{305}	20.42V		645
2002 TA_{395}	2002 10 31.252602	01 08 47.675	+00 16 14.48	2002 TS_{305}	21.23		645
2002 TB_{395}	*2002 10 11.282250	23 08 27.078	−00 22 35.99	2002 TE_{318}	21.74V		645
2002 TB_{395}	2002 10 11.285722	23 08 26.995	−00 22 37.23	2002 TE_{318}	22.61		645
2002 TC_{395}	*2002 10 10.300590	23 53 02.556	−01 02 26.95	2002 TF_{322}	21.81V		645
2002 TC_{395}	2002 10 10.304062	23 53 02.386	−01 02 27.52	2002 TF_{322}	22.90		645
2002 TD_{395}	*2002 10 10.314240	00 12 45.054	+00 12 42.94	2002 TV_{325}	21.29V		645
2002 TD_{395}	2002 10 10.317712	00 12 44.884	+00 12 42.40	2002 TV_{325}	22.27		645
2002 TE_{395}	*2002 10 10.319250	00 19 59.136	−00 52 42.91	2002 TB_{327}	21.14V		645
2002 TE_{395}	2002 10 10.322722	00 19 58.976	−00 52 44.11	2002 TB_{327}	21.84		645
2002 TF_{395}	*2002 10 11.340180	00 32 07.226	−00 22 34.03	2002 TH_{330}	20.73V		645
2002 TF_{395}	2002 10 11.343652	00 32 07.030	−00 22 34.03	2002 TH_{330}	21.52		645
2002 TG_{395}	*2002 10 11.367140	01 11 03.245	−00 41 53.15	2002 TJ_{339}	20.33V		645
2002 TG_{395}	2002 10 11.370612	01 11 03.058	−00 41 53.91	2002 TJ_{339}	21.16		645
2002 TH_{395}	*2002 10 10.355830	01 12 49.396	−00 55 47.61	2002 TR_{339}	20.70V		645
2002 TH_{395}	2002 10 10.359302	01 12 49.164	−00 55 47.42	2002 TR_{339}	21.37		645
2002 TJ_{395}	*2002 10 11.262950	22 40 34.650	+00 56 15.99	2002 UC_{62}	21.21V		645
2002 TJ_{395}	2002 10 11.266422	22 40 34.591	+00 56 15.20	2002 UC_{62}	21.98		645
2002 TK_{395}	*2002 10 11.377020	01 25 19.998	+00 35 54.27	2002 UZ_{67}	20.01V		645
2002 TK_{395}	2002 10 11.380492	01 25 19.805	+00 35 53.81	2002 UZ_{67}	20.95		645
2002 TL_{395}	*2002 10 11.381560	01 31 52.872	+00 57 54.53	2002 UK_{68}	21.61V		645
2002 TL_{395}	2002 10 11.385032	01 31 52.688	+00 57 52.90	2002 UK_{68}	22.39		645
2002 UN_{82}	*2002 10 29.227670	01 50 44.764	−01 04 48.29	2002 TM_{367}	20.37V		645
2002 UN_{82}	2002 10 29.231142	01 50 44.617	−01 04 49.28	2002 TM_{367}	21.32		645
2002 UO_{82}	*2002 10 28.41032	03 05 32.90	−06 17 00.5	2002 TS_{388}	20.0	R	644
2002 UO_{82}	2002 10 28.42383	03 05 32.28	−06 17 08.3	2002 TS_{388}	19.9	R	644
2002 UO_{82}	2002 10 28.44587	03 05 31.33	−06 17 21.2	2002 TS_{388}	19.8	R	644
2002 UO_{82}	2002 11 06.33845	02 58 43.06	−07 32 13.1	2002 TS_{388}	19.4	R	644
2002 UO_{82}	2002 11 06.35966	02 58 42.01	−07 32 22.4	2002 TS_{388}	19.5	R	644
2002 UO_{82}	2002 11 06.38073	02 58 40.95	−07 32 31.0	2002 TS_{388}			644
2002 VV_{154}	*2002 11 01.87998	01 28 01.14	+16 26 01.6	2002 TK_{36}	20.8	V	950
2002 VV_{154}	2002 11 01.88253	01 28 01.02	+16 26 01.0	2002 TK_{36}			950
2002 VV_{154}	2002 11 01.88507	01 28 00.89	+16 26 00.4	2002 TK_{36}			950
2002 VW_{154}	*2002 11 07.219070	01 36 06.936	+00 56 26.93	2002 UT_{54}	21.30V		645
2002 VW_{154}	2002 11 07.222542	01 36 06.744	+00 56 26.90	2002 UT_{54}	22.27		645
2002 VX_{154}	*2002 11 07.242440	02 09 52.158	−01 11 05.95	2002 US_{59}	21.64V		645
2002 VX_{154}	2002 11 07.245912	02 09 51.992	−01 11 06.97	2002 US_{59}	22.60		645
2002 VY_{154}	*2002 11 04.95942	03 01 16.80	+14 37 15.4	2002 VN_5	21.8	V	950
2002 VY_{154}	2002 11 04.97514	03 01 15.84	+14 37 11.2	2002 VN_5			950
2002 VY_{154}	2002 11 04.99481	03 01 14.65	+14 37 05.9	2002 VN_5			950
2002 VZ_{154}	*2002 11 13.50330	04 16 28.48	+18 06 52.4	2002 WQ_{24}	20.6	R	644
2002 VZ_{154}	2002 11 13.51613	04 16 27.79	+18 06 50.9	2002 WQ_{24}	20.8	R	644
2002 VZ_{154}	2002 11 13.52661	04 16 27.28	+18 06 49.5	2002 WQ_{24}	20.5	R	644
2003 CP_{28}	*2003 02 01.227190	08 57 57.472	+31 28 55.34	2003 AW_{83}	20.76V		645
2003 CP_{28}	2003 02 01.230662	08 57 57.265	+31 28 56.44	2003 AW_{83}	21.62		645
2003 GZ_{66}	*2003 04 09.20491	12 57 12.15	−05 36 15.3	2003 GS_{30}	21.5	V	291
2003 GZ_{66}	2003 04 09.20869	12 57 11.98	−05 36 14.8	2003 GS_{30}	21.4	V	291
2003 GZ_{66}	2003 04 09.21241	12 57 11.77	−05 36 14.1	2003 GS_{30}	21.7	V	291
2003 GA_{67}	*2003 04 09.26115	13 02 50.54	−07 42 08.5	2003 GD_{31}	21.5	V	291
2003 GA_{67}	2003 04 09.26539	13 02 50.31	−07 42 07.2	2003 GD_{31}	21.9	V	291
2003 GA_{67}	2003 04 09.26904	13 02 50.13	−07 42 06.4	2003 GD_{31}	21.7	V	291
2003 GB_{67}	*2003 04 06.05580	10 52 44.90	−04 12 08.5	2003 GQ_{33}	22.2		807
2003 GB_{67}	2003 04 06.06393	10 52 44.66	−04 12 06.2	2003 GQ_{33}	22.3		807
2003 GB_{67}	2003 04 06.07206	10 52 44.35	−04 12 03.7	2003 GQ_{33}	22.5		807
2003 GB_{67}	2003 04 06.08019	10 52 44.14	−04 12 01.9	2003 GQ_{33}	22.1		807
2003 GB_{67}	2003 04 06.08832	10 52 43.88	−04 11 59.6	2003 GQ_{33}	21.7		807
2003 KO_{40}	*2003 05 25.25406	15 48 56.83	−11 35 44.6	2003 KJ_5	21.2	V	691
2003 KO_{40}	2003 05 25.28181	15 48 55.22	−11 35 47.6	2003 KJ_5	21.1	V	691
2003 KO_{40}	2003 05 25.30970	15 48 53.79	−11 35 49.5	2003 KJ_5	21.2	V	691
2003 KP_{40}	*2003 05 28.35144	16 47 22.05	−18 54 00.1	2003 KH_{12}	22.3	V	291
2003 KP_{40}	2003 05 28.35724	16 47 21.73	−18 53 59.0	2003 KH_{12}	21.7	V	291
2003 KP_{40}	2003 05 28.36279	16 47 21.42	−18 53 57.4	2003 KH_{12}	22.3	V	291
2003 LB_{12}	*2003 06 06.40298	20 29 49.91	−09 41 29.1	2003 LX_4	21.9	V	291
2003 LB_{12}	2003 06 06.42746	20 29 50.20	−09 41 20.5	2003 LX_4	21.8	V	291
2003 LB_{12}	2003 06 06.46165	20 29 50.61	−09 41 07.0	2003 LX_4	22.2	V	291
2003 QV_{125}	*2003 08 23.21692	21 59 31.97	−20 18 46.4	2003 OF_{34}	19.9		644
2003 QV_{125}	2003 08 23.23837	21 59 30.83	−20 18 53.9	2003 OF_{34}	19.9		644
2003 QV_{125}	2003 08 23.25991	21 59 29.70	−20 19 01.3	2003 OF_{34}	19.8		644
2003 QW_{125}	*2003 08 25.26928	21 55 04.92	−10 53 18.3	2003 QT_8	18.9		704
2003 QW_{125}	2003 08 25.29467	21 55 03.15	−10 53 11.1	2003 QT_8	19.3		704
2003 QW_{125}	2003 08 25.30716	21 55 02.24	−10 53 07.6	2003 QT_8	18.9		704
2003 QW_{125}	2003 08 25.31953	21 55 01.39	−10 53 01.8	2003 QT_8	19.3		704
2003 SV_{472}	*2003 09 18.40126	23 20 45.13	−00 18 56.5	2003 RP_{19}	19.4		644
2003 SV_{472}	2003 09 18.42258	23 20 44.12	−00 19 06.7	2003 RP_{19}	18.8		644
2003 SV_{472}	2003 09 18.45100	23 20 42.77	−00 19 20.1	2003 RP_{19}	19.4		644
2003 SW_{472}	*2003 09 19.30600	23 14 33.45	−05 19 03.8	2003 SS_{115}	21.1	V	691
2003 SW_{472}	2003 09 19.33342	23 14 32.09	−05 19 16.8	2003 SS_{115}	21.8	V	691
2003 SW_{472}	2003 09 19.36054	23 14 30.77	−05 19 28.9	2003 SS_{115}	21.9	V	691

2003 SX_{472}	*2003 09 19.24274	23 21 28.19	+04 37 37.2	2003 SF_{121}	20.6 V	291
2003 SX_{472}	2003 09 19.24704	23 21 28.06	+04 37 35.3	2003 SF_{121}	21.4 V	291
2003 SX_{472}	2003 09 19.25124	23 21 27.87	+04 37 33.0	2003 SF_{121}	21.4 V	291
2003 SY_{472}	*2003 09 22.28788	23 14 13.73	−02 06 22.4	2003 SA_{132}	21.1 V	291
2003 SY_{472}	2003 09 22.29420	23 14 13.44	−02 06 23.9	2003 SA_{132}	21.2 V	291
2003 SY_{472}	2003 09 22.31331	23 14 12.54	−02 06 27.7	2003 SA_{132}	21.2 V	291
2003 SZ_{472}	*2003 09 29.31294	00 18 13.61	+05 29 01.9	2003 SC_{239}	20.8 V	691
2003 SZ_{472}	2003 09 29.34561	00 18 11.90	+05 28 57.5	2003 SC_{239}	21.1 V	691
2003 SZ_{472}	2003 09 29.37666	00 18 10.23	+05 28 53.3	2003 SC_{239}	20.9 V	691
2003 SA_{473}	*2003 09 29.31294	00 18 16.86	+05 23 41.8	2003 SD_{239}	20.3 V	691
2003 SA_{473}	2003 09 29.34561	00 18 15.16	+05 23 32.5	2003 SD_{239}	20.4 V	691
2003 SA_{473}	2003 09 29.37666	00 18 13.52	+05 23 23.5	2003 SD_{239}	20.3 V	691
2003 SB_{473}	*2003 09 28.282920	23 50 38.580	−01 15 27.88	2003 SN_{347}	21.19V	645
2003 SB_{473}	2003 09 28.286392	23 50 38.364	−01 15 27.59	2003 SN_{347}	22.07	645
2003 SC_{473}	*2003 09 26.290600	00 15 20.879	−00 04 39.34	2003 SM_{349}	21.44V	645
2003 SC_{473}	2003 09 26.294072	00 15 20.724	−00 04 40.98	2003 SM_{349}	22.15	645
2003 SD_{473}	*2003 09 26.291570	00 16 44.222	−00 59 17.34	2003 SP_{349}	21.66V	645
2003 SD_{473}	2003 09 26.295042	00 16 44.042	−00 59 19.12	2003 SP_{349}	22.37	645
2003 SE_{473}	*2003 09 28.263260	23 22 14.434	+00 58 29.55	2003 SA_{357}	21.26V	645
2003 SE_{473}	2003 09 28.266732	23 22 14.253	+00 58 28.30	2003 SA_{357}	21.86	645
2003 SF_{473}	*2003 09 28.270780	23 33 06.195	−01 11 25.58	2003 SQ_{368}	20.84V	645
2003 SF_{473}	2003 09 28.274252	23 33 05.975	−01 11 26.20	2003 SQ_{368}	21.58	645
2003 SG_{473}	*2003 09 29.21421	23 57 53.44	−00 42 37.0	2003 SX_{373}	21.8 V	691
2003 SG_{473}	2003 09 29.24798	23 57 52.01	−00 42 48.3	2003 SX_{373}	21.9 V	691
2003 SG_{473}	2003 09 29.28882	23 57 50.19	−00 43 01.2	2003 SX_{373}	21.6 V	691
2003 SH_{473}	*2003 09 29.296050	00 03 17.734	−00 02 33.66	2003 SF_{375}	21.59V	645
2003 SH_{473}	2003 09 29.299522	00 03 17.549	−00 02 34.83	2003 SF_{375}	22.34	645
2003 SJ_{473}	*2003 09 28.26473	00 11 33.60	+00 49 33.1	2003 SV_{376}	21.7 V	291
2003 SJ_{473}	2003 09 28.28788	00 11 32.48	+00 49 21.5	2003 SV_{376}	22.4 V	291
2003 SJ_{473}	2003 09 28.31088	00 11 31.39	+00 49 09.1	2003 SV_{376}	21.9 V	291
2003 SK_{473}	*2003 09 28.308150	00 27 04.699	−00 17 33.78	2003 SQ_{380}	20.91V	645
2003 SK_{473}	2003 09 28.311622	00 27 04.529	−00 17 35.25	2003 SQ_{380}	21.79	645
2003 SL_{473}	*2003 09 30.26850	00 45 08.17	−01 07 40.4	2003 SQ_{384}	21.2 V	691
2003 SL_{473}	2003 09 30.29535	00 45 06.77	−01 07 47.2	2003 SQ_{384}	21.6 V	691
2003 SL_{473}	2003 09 30.32128	00 45 05.38	−01 07 53.5	2003 SQ_{384}	21.8 V	691
2003 SM_{473}	*2003 09 29.274450	23 32 06.693	+00 41 50.72	2003 SE_{403}	20.91V	645
2003 SM_{473}	2003 09 29.277922	23 32 06.498	+00 41 49.82	2003 SE_{403}	21.68	645
2003 SN_{473}	*2003 09 18.31093	00 03 12.48	+01 48 17.5	2003 SH_{412}	21.5 V	691
2003 SN_{473}	2003 09 18.33823	00 03 11.15	+01 48 06.5	2003 SH_{412}	21.6 V	691
2003 SN_{473}	2003 09 18.36552	00 03 09.77	+01 47 55.9	2003 SH_{412}	21.6 V	691
2003 SO_{473}	*2003 09 30.332260	01 45 12.376	−00 32 39.37	2003 SP_{417}	21.77V	645
2003 SO_{473}	2003 09 30.335732	01 45 12.188	−00 32 40.06	2003 SP_{417}	22.77	645
2003 UP_{448}	*2003 10 16.12101	00 25 43.35	+10 56 20.3	2003 TA_{25}	20.8 V	691
2003 UP_{448}	2003 10 16.12367	00 25 43.23	+10 56 19.8	2003 TA_{25}	20.8 V	691
2003 UP_{448}	2003 10 16.14870	00 25 41.86	+10 56 13.3	2003 TA_{25}	20.7 V	691
2003 UP_{448}	2003 10 16.15129	00 25 41.72	+10 56 13.0	2003 TA_{25}	20.7 V	691
2003 UP_{448}	2003 10 16.17596	00 25 40.36	+10 56 07.0	2003 TA_{25}	20.7 V	691
2003 UP_{448}	2003 10 16.17855	00 25 40.23	+10 56 06.2	2003 TA_{25}	20.6 V	691
2003 UQ_{448}	*2003 10 19.224490	00 07 03.606	−00 46 38.10	2003 SO_{379}	21.34V	645
2003 UQ_{448}	2003 10 19.227962	00 07 03.454	−00 46 39.11	2003 SO_{379}	22.15	645
2003 UR_{448}	*2003 10 24.299980	02 13 07.225	+00 48 02.80	2003 SA_{399}	21.55V	645
2003 UR_{448}	2003 10 24.303452	02 13 07.028	+00 48 02.16	2003 SA_{399}	22.59	645
2003 US_{448}	*2003 10 19.273070	01 17 13.392	−01 08 22.49	2003 SY_{416}	21.33V	645
2003 US_{448}	2003 10 19.276542	01 17 13.211	−01 08 23.26	2003 SY_{416}	22.14	645
2003 UT_{448}	*2003 10 18.26903	01 24 40.13	+19 54 46.8	2003 TK_{34}	21.2 V	691
2003 UT_{448}	2003 10 18.29683	01 24 38.59	+19 54 35.2	2003 TK_{34}	21.0 V	691
2003 UT_{448}	2003 10 18.32500	01 24 37.02	+19 54 23.3	2003 TK_{34}	20.9 V	691
2003 UU_{448}	*2003 10 23.40575	01 42 10.47	+22 45 09.3	2003 TD_{55}	21.0	608
2003 UU_{448}	2003 10 23.41680	01 42 09.94	+22 45 05.2	2003 TD_{55}	21.0	608
2003 UU_{448}	2003 10 23.42785	01 42 09.34	+22 45 01.4	2003 TD_{55}	20.4	608
2003 UV_{448}	*2003 10 23.27388	01 27 19.84	+09 15 08.5	2003 UT_{153}	21.7 V	291
2003 UV_{448}	2003 10 23.29733	01 27 18.50	+09 14 58.9	2003 UT_{153}	21.6 V	291
2003 UV_{448}	2003 10 23.32072	01 27 17.18	+09 14 48.8	2003 UT_{153}	22.5 V	291
2003 UW_{448}	*2003 10 23.27424	01 27 50.82	+09 35 25.6	2003 UK_{157}	22.2 V	291
2003 UW_{448}	2003 10 23.29769	01 27 49.52	+09 35 22.0	2003 UK_{157}	22.3 V	291
2003 UW_{448}	2003 10 23.32108	01 27 48.19	+09 35 18.0	2003 UK_{157}	21.9 V	291
2003 UX_{448}	*2003 10 24.24218	01 58 47.21	+11 37 10.2	2003 UM_{285}	22.1 V	291
2003 UX_{448}	2003 10 24.26588	01 58 46.09	+11 37 03.8	2003 UM_{285}	22.8 V	291
2003 UX_{448}	2003 10 24.28975	01 58 44.92	+11 36 57.7	2003 UM_{285}	22.3 V	291
2003 UY_{448}	*2003 10 22.31593	02 50 01.87	+15 49 21.8	2003 UW_{322}	22.2 R	695
2003 UY_{448}	2003 10 22.42998	02 49 56.14	+15 48 58.5	2003 UW_{322}		695
2003 UZ_{448}	*2003 10 22.242160	00 43 43.991	+00 14 49.28	2003 UX_{348}	21.70V	645
2003 UZ_{448}	2003 10 22.245632	00 43 43.850	+00 14 47.56	2003 UX_{348}	22.74	645
2003 UA_{449}	*2003 10 23.26150	01 22 23.05	+00 41 03.9	2003 UE_{355}	21.7 V	691
2003 UA_{449}	2003 10 23.28847	01 22 21.59	+00 40 59.0	2003 UE_{355}	21.9 V	691
2003 UA_{449}	2003 10 23.31508	01 22 20.18	+00 40 53.9	2003 UE_{355}	21.5 V	691
2003 UB_{449}	*2003 10 22.282500	01 41 59.040	+00 48 15.31	2003 UQ_{361}	21.22V	645
2003 UB_{449}	2003 10 22.285972	01 41 58.899	+00 48 13.67	2003 UQ_{361}	22.13	645
2003 UC_{449}	*2003 10 24.263360	01 20 13.898	−00 32 45.67	2003 US_{385}	21.56V	645
2003 UC_{449}	2003 10 24.266832	01 20 13.726	−00 32 46.56	2003 US_{385}	22.11	645
2003 UD_{449}	*2003 10 24.232580	00 35 46.980	−00 04 57.34	2003 UZ_{403}	21.61V	645
2003 UD_{449}	2003 10 24.236052	00 35 46.854	−00 04 58.01	2003 UZ_{403}	22.37	645
2003 VR_{13}	*2003 11 02.26721	01 59 17.49	+08 03 51.5	2003 WA_{186}	21.7 V	291
2003 VR_{13}	2003 11 02.27101	01 59 17.21	+08 03 51.9	2003 WA_{186}	21.9 V	291
2003 VR_{13}	2003 11 02.27480	01 59 17.04	+08 03 51.7	2003 WA_{186}	21.8 V	291
2003 XT_{46}	*2003 12 15.25284	04 37 09.97	+07 30 33.9	2003 WD_{171}	20.2 R	735
2003 XT_{46}	2003 12 15.26323	04 37 09.37	+07 30 36.8	2003 WD_{171}	19.9 R	735
2003 XT_{46}	2003 12 15.26685	04 37 09.14	+07 30 37.9	2003 WD_{171}	19.9 R	735
2003 XU_{46}	*2003 12 14.21145	04 14 50.04	+20 18 26.6	2003 XY_{23}	21.4 V	691
2003 XU_{46}	2003 12 14.23963	04 14 48.51	+20 18 25.7	2003 XY_{23}	21.8 V	691
2003 XU_{46}	2003 12 14.26691	04 14 47.01	+20 18 25.2	2003 XY_{23}	21.8 V	691
2004 BU_{173}	*2004 01 27.36212	07 58 00.58	+23 38 52.6	2004 AS_{20}	21.3 V	691
2004 BU_{173}	2004 01 27.39114	07 57 58.84	+23 38 56.7	2004 AS_{20}	21.7 V	691
2004 BU_{173}	2004 01 27.42206	07 57 57.00	+23 39 00.8	2004 AS_{20}	21.7 V	691
2004 FJ_{178}	*2004 03 16.31655	10 35 26.78	−01 18 15.7	2004 EE_{29}	22.0 V	291
2004 FJ_{178}	2004 03 16.32175	10 35 26.54	−01 18 14.7	2004 EE_{29}	21.9 V	291
2004 FJ_{178}	2004 03 16.32692	10 35 26.29	−01 18 13.9	2004 EE_{29}	22.1 V	291
2004 FK_{178}	*2004 03 16.31655	10 35 27.25	−01 15 06.5	2004 EF_{29}	22.2 V	291
2004 FK_{178}	2004 03 16.32175	10 35 27.02	−01 15 05.4	2004 EF_{29}	22.5 V	291
2004 FK_{178}	2004 03 16.32693	10 35 26.80	−01 15 04.2	2004 EF_{29}	22.0 V	291
2004 FL_{178}	*2004 03 29.42551	13 55 56.71	−11 58 52.4	2004 FU_{123}	21.2 R	695
2004 FL_{178}	2004 03 29.43773	13 55 56.19	−11 58 51.2	2004 FU_{123}	21.7 R	695
2004 HD_{86}	*2004 04 19.21805	13 25 27.96	−07 04 33.0	2004 HR_{3}	21.4 V	691
2004 HD_{86}	2004 04 19.24494	13 25 26.32	−07 04 31.0	2004 HR_{3}	21.4 V	691
2004 HD_{86}	2004 04 19.27216	13 25 24.69	−07 04 28.8	2004 HR_{3}	21.6 V	691
2004 PH_{122}	*2004 08 15.28779	23 18 44.18	−08 19 04.4	2004 PQ_{110}	21.5 R	807

2004 PH_{122}	2004 08 15.37926	23 18 40.26	−08 19 39.4	2004 PQ_{110}			807
2004 SH_{66}	*2004 09 16.36101	23 39 08.76	−09 24 07.5	2004 RU_{277}	20.8	V	291
2004 SH_{66}	2004 09 16.36474	23 39 08.55	−09 24 08.6	2004 RU_{277}	20.8	V	291
2004 SH_{66}	2004 09 16.36854	23 39 08.35	−09 24 09.1	2004 RU_{277}	20.8	V	291
2004 TY_{386}	*2004 10 10.27479	01 27 20.27	+08 31 01.3	2004 TO_{154}	21.0	V	691
2004 TY_{386}	2004 10 10.30266	01 27 18.76	+08 30 51.8	2004 TO_{154}	21.3	V	691
2004 TY_{386}	2004 10 10.33061	01 27 17.23	+08 30 42.3	2004 TO_{154}	21.0	V	691
2004 TZ_{386}	*2004 10 15.31625	01 47 59.60	+10 33 37.7	2004 TK_{335}	19.9	R	G96
2004 TZ_{386}	2004 10 15.32413	01 47 59.16	+10 33 36.5	2004 TK_{335}	19.7	R	G96
2004 TZ_{386}	2004 10 15.33200	01 47 58.72	+10 33 35.0	2004 TK_{335}	19.7	R	G96
2004 TZ_{386}	2004 10 15.33990	01 47 58.26	+10 33 33.3	2004 TK_{335}	20.4	R	G96
2004 VO_{138}	*2004 11 09.15974	01 07 31.84	+06 35 24.9	2004 TG_{370}	22.0	R	695
2004 VO_{138}	2004 11 09.16493	01 07 31.63	+06 35 24.6	2004 TG_{370}			695
2004 WL_{14}	*2004 11 17.57079	03 20 19.47	+12 57 18.9	2004 VF_{33}	20.0	R	E12
2004 WL_{14}	2004 11 17.57918	03 20 18.91	+12 57 18.1	2004 VF_{33}	19.9	R	E12
2004 WL_{14}	2004 11 17.58757	03 20 18.42	+12 57 16.7	2004 VF_{33}	19.5	R	E12
2004 WL_{14}	2004 11 17.59597	03 20 17.85	+12 57 15.8	2004 VF_{33}	20.4	R	E12
2004 XP_{199}	*2004 12 14.34332	05 16 14.86	+23 20 37.6	2004 XP_{62}			701
2004 XP_{199}	2004 12 14.36716	05 16 13.37	+23 20 38.2	2004 XP_{62}			701
2005 CX_{89}	*2005 02 09.30201	08 26 34.0	+19 37 11	2005 CH_{61}			809
2005 CX_{89}	2005 03 03.081835	08 13 08.64	+20 09 22.8	2005 CH_{61}	20.3	R	809
2005 CY_{89}	*2005 02 09.30623	09 59 57.32	+16 40 57.4	2005 CS_{28}	20.4	R	G96
2005 CY_{89}	2005 02 09.31110	09 59 57.05	+16 40 58.8	2005 CS_{28}	20.4	R	G96
2005 CY_{89}	2005 02 09.31601	09 59 56.75	+16 40 59.8	2005 CS_{28}	20.5	R	G96
2005 CY_{89}	2005 02 09.32091	09 59 56.48	+16 41 00.2	2005 CS_{28}	21.2	R	G96
2005 DS_4	*2005 02 16.12052	11 05 34.74	+03 57 41.7	2005 EX_{134}	21.4	R	809
2005 DS_4	2005 02 16.12844	11 05 34.36	+03 57 42.5	2005 EX_{134}	21.2	R	809
2005 DS_4	2005 02 16.13620	11 05 33.98	+03 57 43.7	2005 EX_{134}	21.2	R	809
2005 EK_{350}	*2005 03 04.22868	09 12 19.82	+17 17 24.2	2005 CQ_{33}	19.0	R	G96
2005 EK_{350}	2005 03 04.23515	09 12 19.40	+17 17 26.4	2005 CQ_{33}	19.4	R	G96
2005 EK_{350}	2005 03 04.24162	09 12 19.23	+17 17 23.9	2005 CQ_{33}	19.5	R	G96
2005 EK_{350}	2005 03 04.24806	09 12 18.94	+17 17 22.9	2005 CQ_{33}	19.2	R	G96
2005 EL_{350}	*2005 03 08.23358	09 41 25.50	+13 07 57.2	2005 EM_{40}	20.8	R	G96
2005 EL_{350}	2005 03 08.23909	09 41 25.28	+13 07 58.7	2005 EM_{40}	20.5	R	G96
2005 EL_{350}	2005 03 08.24455	09 41 25.07	+13 08 00.5	2005 EM_{40}	21.8	R	G96
2005 EL_{350}	2005 03 08.25000	09 41 24.79	+13 08 01.6	2005 EM_{40}	21.1	R	G96
2005 EM_{350}	*2005 03 08.33410	11 12 22.98	+04 39 24.0	2005 EE_{56}	21.6	R	G96
2005 EM_{350}	2005 03 08.34068	11 12 22.64	+04 39 27.0	2005 EE_{56}	21.5	R	G96
2005 EM_{350}	2005 03 08.34726	11 12 22.32	+04 39 29.8	2005 EE_{56}	20.2	R	G96
2005 EM_{350}	2005 03 08.35382	11 12 21.99	+04 39 31.7	2005 EE_{56}	21.1	R	G96
2005 EN_{350}	*2005 03 08.20439	09 03 49.67	+16 58 05.6	2005 EG_{57}	21.2	R	G96
2005 EN_{350}	2005 03 08.20987	09 03 49.48	+16 58 07.6	2005 EG_{57}	22.1	R	G96
2005 EN_{350}	2005 03 08.21535	09 03 49.32	+16 58 08.0	2005 EG_{57}	20.6	R	G96
2005 EN_{350}	2005 03 08.22081	09 03 49.12	+16 58 09.7	2005 EG_{57}	20.5	R	G96
2005 EO_{350}	*2005 03 08.27447	09 44 03.83	+13 24 37.6	2005 EB_{59}	21.3	R	G96
2005 EO_{350}	2005 03 08.28052	09 44 03.51	+13 24 39.5	2005 EB_{59}	21.9	R	G96
2005 EO_{350}	2005 03 08.28657	09 44 03.27	+13 24 41.4	2005 EB_{59}	21.6	R	G96
2005 EO_{350}	2005 03 08.29264	09 44 02.91	+13 24 42.7	2005 EB_{59}	21.4	R	G96
2005 EP_{350}	*2005 03 08.30203	10 34 17.57	+09 31 34.3	2005 EQ_{63}	20.5	R	G96
2005 EP_{350}	2005 03 08.30918	10 34 17.23	+09 31 38.0	2005 EQ_{63}	19.5	R	G96
2005 EP_{350}	2005 03 08.31630	10 34 16.91	+09 31 42.2	2005 EQ_{63}	20.0	R	G96
2005 EP_{350}	2005 03 08.32340	10 34 16.57	+09 31 45.9	2005 EQ_{63}	19.9	R	G96
2005 EQ_{350}	*2005 03 10.33252	11 25 46.99	+04 52 44.9	2005 EH_{103}	21.2	R	G96
2005 EQ_{350}	2005 03 10.33962	11 25 46.59	+04 52 47.0	2005 EH_{103}	20.7	R	G96
2005 EQ_{350}	2005 03 10.34673	11 25 46.18	+04 52 49.2	2005 EH_{103}	20.2	R	G96
2005 EQ_{350}	2005 03 10.35387	11 25 45.82	+04 52 51.3	2005 EH_{103}	20.9	R	G96
2005 ER_{350}	*2005 03 10.21439	08 51 46.06	+18 42 38.2	2005 EW_{104}	21.1	R	G96
2005 ER_{350}	2005 03 10.22243	08 51 45.92	+18 42 40.9	2005 EW_{104}	20.0	R	G96
2005 ER_{350}	2005 03 10.23048	08 51 45.75	+18 42 43.1	2005 EW_{104}	21.6	R	G96
2005 ER_{350}	2005 03 10.23852	08 51 45.58	+18 42 45.7	2005 EW_{104}	20.3	R	G96
2005 ES_{350}	*2005 03 10.24410	09 27 42.67	+16 44 26.9	2005 EQ_{106}	21.4	R	G96
2005 ES_{350}	2005 03 10.25208	09 27 42.37	+16 44 30.0	2005 EQ_{106}	21.4	R	G96
2005 ES_{350}	2005 03 10.26010	09 27 42.17	+16 44 33.5	2005 EQ_{106}	21.7	R	G96
2005 ES_{350}	2005 03 10.26806	09 27 41.90	+16 44 36.7	2005 EQ_{106}	21.6	R	G96
2005 ET_{350}	*2005 03 12.24753	10 53 38.87	+06 15 44.2	2005 EG_{308}	21.5	R	695
2005 ET_{350}	2005 03 12.33156	10 53 34.05	+06 16 03.7	2005 EG_{308}			695
2005 FP_{20}	*2005 03 16.29999	10 30 38.99	+11 56 47.5	2005 EO_{230}	20.8	R	G96
2005 FP_{20}	2005 03 16.30649	10 30 38.62	+11 56 48.5	2005 EO_{230}	20.6	R	G96
2005 FP_{20}	2005 03 16.31285	10 30 38.32	+11 56 49.4	2005 EO_{230}	20.4	R	G96
2005 FP_{20}	2005 03 16.31909	10 30 38.02	+11 56 49.6	2005 EO_{230}	18.1	R	G96
2005 FQ_{20}	*2005 03 16.37919	12 14 03.74	+01 29 56.6	2005 EN_{236}	20.4	V	691
2005 FQ_{20}	2005 03 16.39502	12 14 03.02	+01 30 02.8	2005 EN_{236}	20.6	R	G96
2005 FQ_{20}	2005 03 16.40103	12 14 02.73	+01 30 05.8	2005 EN_{236}	20.0	R	G96
2005 FQ_{20}	2005 03 16.40586	12 14 02.60	+01 30 07.8	2005 EN_{236}	20.3	V	691
2005 FQ_{20}	2005 03 16.40705	12 14 02.50	+01 30 07.7	2005 EN_{236}	19.8	R	G96
2005 FQ_{20}	2005 03 16.41303	12 14 02.27	+01 30 10.3	2005 EN_{236}	19.2	R	G96
2005 FQ_{20}	2005 03 16.43116	12 14 01.44	+01 30 18.2	2005 EN_{236}	20.7	V	691
2005 FR_{20}	*2005 03 17.29281	10 52 52.79	+04 03 00.2	2005 EO_{255}	20.5	R	G96
2005 FR_{20}	2005 03 17.29905	10 52 52.51	+04 03 03.2	2005 EO_{255}	20.8	R	G96
2005 FR_{20}	2005 03 17.30530	10 52 52.25	+04 03 06.2	2005 EO_{255}	19.9	R	G96
2005 FR_{20}	2005 03 17.31155	10 52 51.98	+04 03 09.8	2005 EO_{255}	20.1	R	G96
2005 FS_{20}	*2005 03 17.19385	09 09 44.98	+11 23 55.7	2005 EB_{262}	20.5	R	G96
2005 FS_{20}	2005 03 17.19918	09 09 44.84	+11 23 57.4	2005 EB_{262}	20.0	R	G96
2005 FS_{20}	2005 03 17.20451	09 09 44.75	+11 23 58.9	2005 EB_{262}	21.3	R	G96
2005 FS_{20}	2005 03 17.20986	09 09 44.67	+11 24 00.1	2005 EB_{262}	21.2	R	G96
2005 FT_{20}	*2005 03 16.27960	10 16 50.68	+13 06 27.4	2005 EW_{290}	20.9	R	G96
2005 FT_{20}	2005 03 16.28494	10 16 50.43	+13 06 30.1	2005 EW_{290}	21.6	R	G96
2005 FT_{20}	2005 03 16.29027	10 16 50.19	+13 06 30.2	2005 EW_{290}	20.7	R	G96
2005 FT_{20}	2005 03 16.29558	10 16 49.96	+13 06 31.3	2005 EW_{290}	20.6	R	G96
2005 FU_{20}	*2005 03 16.35725	11 33 25.21	+05 31 33.6	2005 EX_{291}	20.4	R	G96
2005 FU_{20}	2005 03 16.36497	11 33 24.75	+05 31 35.7	2005 EX_{291}	21.7	R	G96
2005 FU_{20}	2005 03 16.37274	11 33 24.47	+05 31 37.1	2005 EX_{291}	21.1	R	G96
2005 FU_{20}	2005 03 16.38045	11 33 23.90	+05 31 38.7	2005 EX_{291}	21.4	R	G96
2005 FV_{20}	*2005 03 16.30391	10 54 31.04	+10 38 26.6	2005 EH_{312}	21.2	R	G96
2005 FV_{20}	2005 03 16.31042	10 54 30.75	+10 38 28.2	2005 EH_{312}	21.0	R	G96
2005 FV_{20}	2005 03 16.31678	10 54 30.45	+10 38 30.0	2005 EH_{312}	21.3	R	G96
2005 FV_{20}	2005 03 16.32302	10 54 30.17	+10 38 31.1	2005 EH_{312}	20.8	R	G96
2005 FW_{20}	*2005 03 17.24617	12 05 14.32	−01 54 19.6	2005 EZ_{327}	20.3	R	G96
2005 FW_{20}	2005 03 17.25061	12 05 14.06	−01 54 17.0	2005 EZ_{327}	20.1	R	G96
2005 FW_{20}	2005 03 17.25502	12 05 13.84	−01 54 15.0	2005 EZ_{327}	20.1	R	G96
2005 FW_{20}	2005 03 17.25939	12 05 13.59	−01 54 12.5	2005 EZ_{327}	20.0	R	G96
2005 GM_{240}	*2005 04 02.26843	10 43 16.61	+07 47 07.1	2005 EV_{14}	21.0	R	G96
2005 GM_{240}	2005 04 02.27490	10 43 16.40	+07 47 07.1	2005 EV_{14}	20.5	R	G96
2005 GM_{240}	2005 04 02.28140	10 43 16.10	+07 47 07.5	2005 EV_{14}	21.2	R	G96
2005 GM_{240}	2005 04 02.28792	10 43 15.81	+07 47 07.9	2005 EV_{14}	21.3	R	G96
2005 GN_{240}	*2005 04 04.21732	10 17 51.06	+10 53 24.0	2005 EZ_{19}	20.3	R	G96

2005 GN_{240}	2005 04 04.22337	10 17 50.94	+10 53 23.8	2005 EZ_{19}	20.4	R	G96
2005 GN_{240}	2005 04 04.22940	10 17 50.78	+10 53 24.1	2005 EZ_{19}	20.7	R	G96
2005 GN_{240}	2005 04 04.23544	10 17 50.67	+10 53 24.9	2005 EZ_{19}	20.1	R	G96
2005 GO_{240}	*2005 04 06.24880	11 13 31.87	+03 36 22.6	2005 ER_{128}	21.1	R	G96
2005 GO_{240}	2005 04 06.25479	11 13 31.69	+03 36 25.4	2005 ER_{128}	19.1	R	G96
2005 GO_{240}	2005 04 06.26076	11 13 31.41	+03 36 26.1	2005 ER_{128}	20.8	R	G96
2005 GO_{240}	2005 04 06.26679	11 13 31.19	+03 36 28.4	2005 ER_{128}	20.7	R	G96
2005 GP_{240}	*2005 04 04.30463	11 57 26.20	+02 49 27.5	2005 EQ_{236}	20.5	R	G96
2005 GP_{240}	2005 04 04.31099	11 57 25.80	+02 49 27.9	2005 EQ_{236}	20.6	R	G96
2005 GP_{240}	2005 04 04.31741	11 57 25.45	+02 49 28.6	2005 EQ_{236}	20.6	R	G96
2005 GP_{240}	2005 04 04.32375	11 57 25.06	+02 49 28.9	2005 EQ_{236}	20.7	R	G96
2005 GQ_{240}	*2005 04 04.24677	10 34 01.12	+09 50 05.3	2005 EX_{333}	20.2	R	G96
2005 GQ_{240}	2005 04 04.25208	10 34 01.02	+09 50 06.2	2005 EX_{333}	21.4	R	G96
2005 GQ_{240}	2005 04 04.25738	10 34 00.90	+09 50 07.5	2005 EX_{333}	20.3	R	G96
2005 GQ_{240}	2005 04 04.26268	10 34 00.75	+09 50 09.1	2005 EX_{333}	21.2	R	G96
2005 GR_{240}	*2005 04 05.38191	12 43 17.30	−05 17 57.9	2005 GQ_{32}	20.9	R	G96
2005 GR_{240}	2005 04 05.38884	12 43 16.95	−05 17 55.5	2005 GQ_{32}	19.9	R	G96
2005 GR_{240}	2005 04 05.39575	12 43 16.62	−05 17 53.5	2005 GQ_{32}	20.7	R	G96
2005 GR_{240}	2005 04 05.40267	12 43 16.29	−05 17 50.4	2005 GQ_{32}	20.4	R	G96
2005 GS_{240}	*2005 04 07.32551	12 09 18.67	−01 23 48.1	2005 GJ_{51}	19.5	R	G96
2005 GS_{240}	2005 04 07.33091	12 09 18.39	−01 23 46.8	2005 GJ_{51}	20.2	R	G96
2005 GS_{240}	2005 04 07.33626	12 09 18.12	−01 23 46.1	2005 GJ_{51}	19.5	R	G96
2005 GS_{240}	2005 04 07.34164	12 09 17.85	−01 23 44.9	2005 GJ_{51}	20.1	R	G96
2005 GT_{240}	*2005 04 09.34907	13 21 33.16	−07 38 06.9	2005 GS_{65}	19.9	R	G96
2005 GT_{240}	2005 04 09.35440	13 21 32.89	−07 38 04.8	2005 GS_{65}	18.9	R	G96
2005 GT_{240}	2005 04 09.35966	13 21 32.61	−07 38 04.8	2005 GS_{65}	19.4	R	G96
2005 GT_{240}	2005 04 09.36499	13 21 32.29	−07 38 02.2	2005 GS_{65}	19.9	R	G96
2005 GU_{240}	*2005 04 09.25986	13 49 06.66	−11 04 08.7	2005 GB_{69}	20.7	V	691
2005 GU_{240}	2005 04 09.27778	13 49 05.83	−11 03 59.4	2005 GB_{69}	20.7	V	691
2005 GU_{240}	2005 04 09.29580	13 49 04.94	−11 03 50.1	2005 GB_{69}	20.5	V	691
2005 GV_{240}	*2005 04 09.30685	12 10 04.38	+01 44 36.2	2005 GY_{71}	20.3	R	G96
2005 GV_{240}	2005 04 09.31219	12 10 04.08	+01 44 39.0	2005 GY_{71}	19.6	R	G96
2005 GV_{240}	2005 04 09.31753	12 10 03.87	+01 44 42.9	2005 GY_{71}	20.9	R	G96
2005 GV_{240}	2005 04 09.32289	12 10 03.63	+01 44 44.6	2005 GY_{71}	20.1	R	G96
2005 GW_{240}	*2005 04 11.16271	10 28 01.55	+10 52 20.4	2005 GJ_{82}	21.3	R	G96
2005 GW_{240}	2005 04 11.16955	10 28 01.38	+10 52 20.6	2005 GJ_{82}	21.2	R	G96
2005 GW_{240}	2005 04 11.17638	10 28 01.23	+10 52 20.6	2005 GJ_{82}	21.4	R	G96
2005 GW_{240}	2005 04 11.18325	10 28 00.99	+10 52 20.8	2005 GJ_{82}	21.4	R	G96
2005 GX_{240}	*2005 04 11.20042	11 02 34.81	+06 53 06.7	2005 GF_{84}	19.8	R	G96
2005 GX_{240}	2005 04 11.20683	11 02 34.68	+06 53 08.4	2005 GF_{84}	20.0	R	G96
2005 GX_{240}	2005 04 11.21323	11 02 34.57	+06 53 10.2	2005 GF_{84}	19.8	R	G96
2005 GX_{240}	2005 04 11.21963	11 02 34.43	+06 53 12.0	2005 GF_{84}	20.0	R	G96
2005 GY_{240}	*2005 04 11.23176	11 31 27.69	+04 27 02.0	2005 GE_{85}	21.1	R	G96
2005 GY_{240}	2005 04 11.23955	11 31 27.39	+04 27 04.1	2005 GE_{85}	21.0	R	G96
2005 GY_{240}	2005 04 11.24735	11 31 27.08	+04 27 04.7	2005 GE_{85}	21.1	R	G96
2005 GY_{240}	2005 04 11.25521	11 31 26.79	+04 27 05.8	2005 GE_{85}	20.6	R	G96
2005 GZ_{240}	*2005 04 12.19527	11 25 42.74	+01 57 15.1	2005 GG_{122}	21.3	R	G96
2005 GZ_{240}	2005 04 12.20192	11 25 42.53	+01 57 17.6	2005 GG_{122}	20.6	R	G96
2005 GZ_{240}	2005 04 12.20861	11 25 42.34	+01 57 19.9	2005 GG_{122}	20.3	R	G96
2005 GZ_{240}	2005 04 12.21530	11 25 42.20	+01 57 21.4	2005 GG_{122}	20.3	R	G96
2005 GA_{241}	*2005 04 12.32313	12 33 25.13	−01 11 06.7	2005 GW_{202}	21.8	R	695
2005 GA_{241}	2005 04 12.42182	12 33 20.88	−01 10 42.7	2005 GW_{202}			695
2005 GB_{241}	*2005 04 11.21598	11 30 29.64	+03 58 38.4	2005 GQ_{218}	22.8	R	695
2005 GB_{241}	2005 04 11.30781	11 30 26.97	+03 59 09.0	2005 GQ_{218}			695
2005 GC_{241}	*2005 04 11.21096	13 24 09.05	−08 03 04.7	2005 GY_{218}	20.6	V	691
2005 GC_{241}	2005 04 11.22834	13 24 08.24	−08 02 53.4	2005 GY_{218}	20.3	V	691
2005 GC_{241}	2005 04 11.24570	13 24 07.41	−08 02 41.4	2005 GY_{218}	20.2	V	691
2005 GD_{241}	*2005 04 09.21964	13 09 42.83	−05 38 04.6	2005 JF_{153}	19.4	R	G96
2005 GD_{241}	2005 04 09.22586	13 09 42.59	−05 38 03.2	2005 JF_{153}	19.8	R	G96
2005 GD_{241}	2005 04 09.23208	13 09 42.28	−05 38 01.3	2005 JF_{153}	20.9	R	G96
2005 GD_{241}	2005 04 09.23831	13 09 41.92	−05 38 00.6	2005 JF_{153}	19.2	R	G96
2005 GE_{241}	*2005 04 13.41234	16 32 48.04	+00 50 20.7	2005 JR_{158}	19.7	R	703
2005 GE_{241}	2005 04 13.41873	16 32 47.95	+00 50 25.1	2005 JR_{158}	19.8	R	703
2005 GE_{241}	2005 04 13.42515	16 32 47.79	+00 50 25.7	2005 JR_{158}	19.6	R	703
2005 GE_{241}	2005 04 13.43153	16 32 47.78	+00 50 28.9	2005 JR_{158}	19.5	R	703
2005 HB_{13}	*2005 04 18.32059	14 05 12.48	−08 13 32.6	2005 GS_{166}	20.0	V	691
2005 HB_{13}	2005 04 18.34161	14 05 11.32	−08 13 25.1	2005 GS_{166}	19.9	V	691
2005 HB_{13}	2005 04 18.38362	14 05 09.05	−08 13 09.2	2005 GS_{166}	20.0	V	691
2005 JL_{195}	*2005 05 03.15641	12 36 27.34	−01 50 30.2	2005 EA_{304}	20.8	V	691
2005 JL_{195}	2005 05 03.17206	12 36 26.88	−01 50 29.8	2005 EA_{304}	20.6	V	691
2005 JL_{195}	2005 05 03.18757	12 36 26.45	−01 50 29.0	2005 EA_{304}	20.6	V	691
2005 JL_{195}	2005 05 09.19161	12 34 22.51	−01 49 09.2	2005 EA_{304}	17.9	R	G96
2005 JL_{195}	2005 05 09.19830	12 34 22.36	−01 49 09.3	2005 EA_{304}	20.1	R	G96
2005 JL_{195}	2005 05 09.20494	12 34 22.24	−01 49 09.6	2005 EA_{304}	20.3	R	G96
2005 JL_{195}	2005 05 09.21163	12 34 22.12	−01 49 09.9	2005 EA_{304}	20.1	R	G96
2005 JM_{195}	*2005 05 07.33060	14 57 26.35	−15 24 39.5	2005 JU_{15}	20.0	R	G96
2005 JM_{195}	2005 05 07.33784	14 57 25.94	−15 24 38.6	2005 JU_{15}	20.6	R	G96
2005 JM_{195}	2005 05 07.34507	14 57 25.55	−15 24 37.6	2005 JU_{15}	20.4	R	G96
2005 JM_{195}	2005 05 07.35230	14 57 25.17	−15 24 36.0	2005 JU_{15}	20.0	R	G96
2005 JN_{195}	*2005 05 10.26984	14 35 21.62	−13 54 51.0	2005 JF_{53}	21.1	R	G96
2005 JN_{195}	2005 05 10.27669	14 35 21.24	−13 54 49.3	2005 JF_{53}	20.3	R	G96
2005 JN_{195}	2005 05 10.28354	14 35 20.89	−13 54 48.0	2005 JF_{53}	21.2	R	G96
2005 JN_{195}	2005 05 10.29039	14 35 20.57	−13 54 46.5	2005 JF_{53}	20.6	R	G96
2005 JO_{195}	*2005 05 13.33308	15 28 11.55	−17 59 10.1	2005 JM_{101}	20.1	R	G96
2005 JO_{195}	2005 05 13.34110	15 28 11.14	−17 59 08.2	2005 JM_{101}	19.8	R	G96
2005 JO_{195}	2005 05 13.34913	15 28 10.72	−17 59 06.1	2005 JM_{101}	20.3	R	G96
2005 JO_{195}	2005 05 13.35712	15 28 10.28	−17 59 03.5	2005 JM_{101}	19.4	R	G96
2005 JP_{195}	*2005 05 14.24913	15 52 04.89	−10 34 12.9	2005 JD_{117}	21.1	V	691
2005 JP_{195}	2005 05 14.26651	15 52 03.76	−10 34 13.4	2005 JD_{117}	20.7	V	691
2005 JP_{195}	2005 05 14.28387	15 52 02.60	−10 34 13.8	2005 JD_{117}	20.7	V	691
2005 KL_{16}	*2005 05 16.23381	15 08 24.19	−18 13 37.7	2005 JS_{116}	21.1	V	691
2005 KL_{16}	2005 05 16.25123	15 08 23.14	−18 13 33.8	2005 JS_{116}	20.4	V	691
2005 KL_{16}	2005 05 16.26866	15 08 22.13	−18 13 28.8	2005 JS_{116}	20.4	V	691
2005 KM_{16}	*2005 05 19.32469	15 56 27.88	−13 39 38.0	2005 KM_2	20.0	R	G96
2005 KM_{16}	2005 05 19.33124	15 56 27.51	−13 39 37.3	2005 KM_2	20.9	R	G96
2005 KM_{16}	2005 05 19.33780	15 56 27.19	−13 39 36.7	2005 KM_2	19.7	R	G96
2005 KM_{16}	2005 05 19.34436	15 56 26.80	−13 39 36.2	2005 KM_2	20.9	R	G96
2005 LU_{59}	*2005 06 12.18746	14 31 08.90	−15 02 17.7	2005 JU_{39}	21.3	V	G96
2005 LU_{59}	2005 06 12.19409	14 31 08.76	−15 02 17.8	2005 JU_{39}	21.0	V	G96
2005 LU_{59}	2005 06 12.20065	14 31 08.54	−15 02 18.4	2005 JU_{39}	20.9	V	G96
2005 LU_{59}	2005 06 12.20722	14 31 08.36	−15 02 18.9	2005 JU_{39}	20.9	V	G96
2005 LV_{59}	*2005 06 06.17733	13 50 50.53	+19 41 21.3	2005 JS_{45}	22.0	R	695
2005 LV_{59}	2005 06 06.19359	13 50 50.60	+19 41 10.7	2005 JS_{45}			695
2005 LV_{59}	2005 06 06.21287	13 50 50.63	+19 40 58.0	2005 JS_{45}			695
2005 NV_{133}	*2005 07 15.34594	20 25 42.70	−18 32 04.7	2005 NH_{74}	21.4	V	G96
2005 NV_{133}	2005 07 15.35462	20 25 42.16	−18 32 05.7	2005 NH_{74}	21.0	V	G96

2005 NV_{133}	2005 07 15.36330	20 25 41.84	−18 32 06.6	2005 NH_{74}	21.3	V	G96
2005 NV_{133}	2005 07 15.37198	20 25 41.34	−18 32 06.7	2005 NH_{74}	21.8	V	G96
2005 NW_{133}	*2005 07 15.34462	20 20 32.20	−17 21 28.0	2005 NQ_{88}	20.8	V	G96
2005 NW_{133}	2005 07 15.35331	20 20 31.70	−17 21 28.4	2005 NQ_{88}	20.7	V	G96
2005 NW_{133}	2005 07 15.36197	20 20 31.23	−17 21 28.7	2005 NQ_{88}	20.6	V	G96
2005 NW_{133}	2005 07 15.37066	20 20 30.73	−17 21 29.4	2005 NQ_{88}	21.6	V	G96
2005 NX_{133}	*2005 07 15.42774	21 21 48.24	−14 16 51.9	2005 NP_{91}	21.1	V	G96
2005 NX_{133}	2005 07 15.43306	21 21 48.02	−14 16 53.4	2005 NP_{91}	21.5	V	G96
2005 NX_{133}	2005 07 15.43835	21 21 47.84	−14 16 55.0	2005 NP_{91}	21.6	V	G96
2005 NX_{133}	2005 07 15.44361	21 21 47.70	−14 16 56.3	2005 NP_{91}	21.3	V	G96
2005 QT_{208}	*2005 08 30.89465	21 56 30.34	−01 10 42.3	2005 QT_{75}	20.2	R	599
2005 QT_{208}	2005 08 30.90544	21 56 29.87	−01 10 43.7	2005 QT_{75}	20.0	R	599
2005 QT_{208}	2005 08 30.91623	21 56 29.38	−01 10 45.2	2005 QT_{75}	20.3	R	599
2005 QT_{208}	2005 08 30.92701	21 56 28.88	−01 10 47.3	2005 QT_{75}	20.2	R	599
2005 RA_{62}	*2005 09 14.16596	22 29 23.45	−11 08 59.7	2005 QF_{80}	20.6	V	691
2005 RA_{62}	2005 09 14.18340	22 29 22.73	−11 09 06.1	2005 QF_{80}	20.7	V	691
2005 RA_{62}	2005 09 14.20077	22 29 22.02	−11 09 12.2	2005 QF_{80}	20.5	V	691
2005 RB_{62}	*2005 09 05.28332	22 09 54.68	−05 01 41.2	2005 SO_{258}	19.0	V	703
2005 RB_{62}	2005 09 05.28978	22 09 54.36	−05 01 47.6	2005 SO_{258}	19.0	V	703
2005 RB_{62}	2005 09 05.29624	22 09 54.14	−05 01 53.0	2005 SO_{258}	19.4	V	703
2005 SX_{303}	*2005 09 29.10145	22 53 06.69	−00 01 34.5	2005 QQ_{103}	21.5	V	691
2005 SX_{303}	2005 09 29.12829	22 53 05.79	−00 01 42.9	2005 QQ_{103}	21.3	V	691
2005 SX_{303}	2005 09 29.14379	22 53 05.26	−00 01 46.5	2005 QQ_{103}	21.4	V	691
2005 TG_{220}	*2005 10 06.21731	01 04 38.83	+02 59 41.6	2005 SF_{141}	20.9	V	691
2005 TG_{220}	2005 10 06.23826	01 04 37.80	+02 59 37.7	2005 SF_{141}	20.5	V	691
2005 TG_{220}	2005 10 06.25578	01 04 36.91	+02 59 34.6	2005 SF_{141}	20.7	V	691
2005 TJ_{220}	*2005 10 01.15953	22 29 07.00	−10 32 03.9	2005 QC_{80}	21.6	V	G96
2005 TJ_{220}	2005 10 01.16613	22 29 06.82	−10 32 03.7	2005 QC_{80}	21.3	V	G96
2005 TJ_{220}	2005 10 01.17281	22 29 06.57	−10 32 03.3	2005 QC_{80}	22.4	V	G96
2005 TJ_{220}	2005 10 01.17947	22 29 06.43	−10 32 03.0	2005 QC_{80}	21.3	V	G96
2005 TK_{220}	*2005 10 01.18480	22 55 23.91	−05 27 27.1	2005 RJ_{15}	20.4	V	G96
2005 TK_{220}	2005 10 01.19143	22 55 23.66	−05 27 27.2	2005 RJ_{15}	20.5	V	G96
2005 TK_{220}	2005 10 01.19809	22 55 23.37	−05 27 27.9	2005 RJ_{15}	20.5	V	G96
2005 TK_{220}	2005 10 01.20472	22 55 23.12	−05 27 28.3	2005 RJ_{15}	20.7	V	G96
2005 TL_{220}	*2005 10 06.20562	00 30 10.36	+05 03 12.5	2005 SS_{161}	22.3	V	G96
2005 TL_{220}	2005 10 06.21053	00 30 10.18	+05 03 11.4	2005 SS_{161}	22.2	V	G96
2005 TL_{220}	2005 10 06.21544	00 30 09.97	+05 03 10.7	2005 SS_{161}	22.1	V	G96
2005 TL_{220}	2005 10 06.22038	00 30 09.79	+05 03 10.0	2005 SS_{161}	21.6	V	G96
2005 TM_{220}	*2005 10 03.33130	01 20 57.16	+12 46 19.0	2005 SP_{268}	20.7	V	691
2005 TM_{220}	2005 10 03.34868	01 20 56.24	+12 46 13.7	2005 SP_{268}	20.6	V	691
2005 TM_{220}	2005 10 03.37298	01 20 54.93	+12 46 05.7	2005 SP_{268}	20.8	V	691
2005 TN_{220}	*2005 10 05.23427	00 58 44.47	+04 36 53.8	2005 TD_{22}	21.4	V	691
2005 TN_{220}	2005 10 05.25151	00 58 43.71	+04 36 45.5	2005 TD_{22}	21.4	V	691
2005 TN_{220}	2005 10 05.26884	00 58 42.93	+04 36 36.6	2005 TD_{22}	21.3	V	691
2005 TO_{220}	*2005 10 06.20562	00 28 01.81	+04 44 58.8	2005 TD_{38}	22.0	V	G96
2005 TO_{220}	2005 10 06.21053	00 28 01.52	+04 44 57.6	2005 TD_{38}	20.8	V	G96
2005 TO_{220}	2005 10 06.21544	00 28 01.27	+04 44 56.3	2005 TD_{38}	21.5	V	G96
2005 TO_{220}	2005 10 06.22038	00 28 01.05	+04 44 55.3	2005 TD_{38}	21.0	V	G96
2005 TP_{220}	*2005 10 09.22999	00 28 34.93	−03 07 44.7	2005 TL_{88}	19.8	V	703
2005 TP_{220}	2005 10 09.23744	00 28 34.53	−03 07 47.3	2005 TL_{88}	20.2	V	703
2005 TP_{220}	2005 10 09.24486	00 28 34.14	−03 07 49.9	2005 TL_{88}	20.5	V	703
2005 TP_{220}	2005 10 09.25233	00 28 33.78	−03 07 51.5	2005 TL_{88}	20.2	V	703
2005 TQ_{220}	*2005 10 09.15284	00 26 02.58	−00 39 29.0	2005 TP_{89}	20.9	V	691
2005 TQ_{220}	2005 10 09.17032	00 26 01.62	−00 39 29.5	2005 TP_{89}	20.8	V	691
2005 TQ_{220}	2005 10 09.18769	00 26 00.71	−00 39 30.8	2005 TP_{89}	20.7	V	691
2005 TR_{220}	*2005 10 12.31440	01 49 38.05	+04 21 28.9	2005 TJ_{145}	21.0	V	691
2005 TR_{220}	2005 10 12.33178	01 49 37.06	+04 21 25.7	2005 TJ_{145}	21.1	V	691
2005 TR_{220}	2005 10 12.34917	01 49 36.14	+04 21 23.1	2005 TJ_{145}	21.2	V	691
2005 TS_{220}	*2005 10 06.18570	00 30 27.21	−04 26 22.7	2005 TQ_{176}	21.0	V	291
2005 TS_{220}	2005 10 06.19327	00 30 26.87	−04 26 26.0	2005 TQ_{176}	21.3	V	291
2005 TS_{220}	2005 10 06.20140	00 30 26.55	−04 26 28.9	2005 TQ_{176}	21.2	V	291
2005 TT_{220}	*2005 10 01.42429	02 02 21.12	+10 51 05.9	2005 UT_{247}	21.4	V	G96
2005 TT_{220}	2005 10 01.42666	02 02 21.04	+10 51 04.7	2005 UT_{247}	20.4	V	G96
2005 TT_{220}	2005 10 01.42898	02 02 20.97	+10 51 04.5	2005 UT_{247}	21.3	V	G96
2005 TT_{220}	2005 10 01.43134	02 02 20.83	+10 51 04.0	2005 UT_{247}	21.1	V	G96
2005 TU_{220}	*2005 10 03.35194	01 29 37.42	+02 48 18.2	2005 UY_{407}	20.1	V	703
2005 TU_{220}	2005 10 03.35855	01 29 37.24	+02 48 18.2	2005 UY_{407}	20.0	V	703
2005 TU_{220}	2005 10 03.36514	01 29 36.78	+02 48 16.3	2005 UY_{407}	20.2	V	703
2005 TU_{220}	2005 10 03.37170	01 29 36.34	+02 48 16.8	2005 UY_{407}	19.7	V	703
2005 UV_{553}	*2005 10 26.22855	00 29 07.98	+01 58 20.7	2005 SN_{172}	22.7	V	G96
2005 UV_{553}	2005 10 26.23389	00 29 07.80	+01 58 19.4	2005 SN_{172}	22.2	V	G96
2005 UV_{553}	2005 10 26.23925	00 29 07.65	+01 58 17.4	2005 SN_{172}	22.6	V	G96
2005 UV_{553}	2005 10 26.24461	00 29 07.44	+01 58 16.1	2005 SN_{172}	22.0	V	G96
2005 UW_{553}	*2005 10 25.08994	00 20 24.77	+03 40 52.8	2005 SO_{248}	21.4	V	691
2005 UW_{553}	2005 10 25.10883	00 20 24.01	+03 40 51.0	2005 SO_{248}	21.1	V	691
2005 UW_{553}	2005 10 25.12764	00 20 23.25	+03 40 49.8	2005 SO_{248}	21.5	V	691
2005 UX_{553}	*2005 10 25.27306	00 53 33.46	+06 37 51.9	2005 SS_{248}	21.6	V	G96
2005 UX_{553}	2005 10 25.27840	00 53 33.25	+06 37 50.6	2005 SS_{248}	21.6	V	G96
2005 UX_{553}	2005 10 25.28374	00 53 33.00	+06 37 48.7	2005 SS_{248}	20.9	V	G96
2005 UX_{553}	2005 10 25.28910	00 53 32.74	+06 37 47.8	2005 SS_{248}	21.7	V	G96
2005 UY_{553}	*2005 10 25.27306	00 56 04.02	+07 25 51.4	2005 TE_{195}	20.9	V	G96
2005 UY_{553}	2005 10 25.27840	00 56 03.80	+07 25 50.2	2005 TE_{195}	21.4	V	G96
2005 UY_{553}	2005 10 25.28374	00 56 03.51	+07 25 47.3	2005 TE_{195}	21.8	V	G96
2005 UY_{553}	2005 10 25.28910	00 56 03.33	+07 25 47.2	2005 TE_{195}	20.9	V	G96
2005 UZ_{553}	*2005 10 29.32247	02 25 11.06	+18 55 15.7	2005 UX_{223}	19.2	V	703
2005 UZ_{553}	2005 10 29.33002	02 25 10.38	+18 55 15.5	2005 UX_{223}	19.2	V	703
2005 UZ_{553}	2005 10 29.33759	02 25 09.94	+18 55 16.3	2005 UX_{223}	19.3	V	703
2005 UZ_{553}	2005 10 29.34501	02 25 09.51	+18 55 16.7	2005 UX_{223}	20.5	V	703
2005 UA_{554}	*2005 10 29.27601	01 33 07.95	+07 34 12.9	2005 UQ_{268}	21.0	V	G96
2005 UA_{554}	2005 10 29.28228	01 33 07.63	+07 34 10.9	2005 UQ_{268}	21.3	V	G96
2005 UA_{554}	2005 10 29.28844	01 33 07.41	+07 34 09.5	2005 UQ_{268}	21.2	V	G96
2005 UA_{554}	2005 10 29.29487	01 33 07.02	+07 34 06.9	2005 UQ_{268}	20.5	V	G96
2005 UB_{554}	*2005 10 30.21859	23 46 37.52	−00 51 02.6	2005 UG_{315}	21.2	V	G96
2005 UB_{554}	2005 10 30.22340	23 46 37.45	−00 51 03.9	2005 UG_{315}	21.6	V	G96
2005 UB_{554}	2005 10 30.22819	23 46 37.34	−00 51 03.9	2005 UG_{315}	20.9	V	G96
2005 UB_{554}	2005 10 30.23304	23 46 37.27	−00 51 04.1	2005 UG_{315}	20.9	V	G96
2005 UC_{554}	*2005 10 23.33373	00 09 31.78	+00 17 59.1	2005 VQ_{125}	22.0		705
2005 UC_{554}	2005 10 23.33455	00 09 31.76	+00 17 58.7	2005 VQ_{125}	21.8	V	705
2005 UD_{554}	*2005 10 24.59496	09 35 00.794	+12 27 56.25	2006 CG_{48}	21.2	R	568
2005 UD_{554}	2005 10 24.60009	09 35 01.163	+12 27 54.36	2006 CG_{48}	21.3	R	568
2005 UD_{554}	2005 10 24.60529	09 35 01.428	+12 27 52.62	2006 CG_{48}	21.3	R	568
2005 UE_{554}	*2005 10 31.61026	10 52 03.791	+09 10 00.65	2006 EO_{7}	21.4	R	568
2005 UE_{554}	2005 10 31.61570	10 52 04.192	+09 09 57.91	2006 EO_{7}	21.4	R	568
2005 UE_{554}	2005 10 31.62089	10 52 04.537	+09 09 55.34	2006 EO_{7}	21.4	R	568
2005 VT_{154}	*2005 11 07.33191	01 32 44.36	−00 12 26.5	2005 SY_{293}	22.4		705
2005 VT_{154}	2005 11 07.33274	01 32 44.32	−00 12 26.4	2005 SY_{293}	21.7	V	705

2005 VU_{154}	*2005 11 03.11061	00 36 31.87	+07 48 22.6	2005 TL_{170}	21.7	V	691
2005 VU_{154}	2005 11 03.12085	00 36 31.52	+07 48 18.9	2005 TL_{170}	21.8	V	691
2005 VU_{154}	2005 11 03.13110	00 36 31.17	+07 48 16.0	2005 TL_{170}	21.7	V	691
2005 VV_{154}	*2005 11 10.22275	03 15 40.92	+13 36 56.5	2005 UO_{98}	21.7	V	291
2005 VV_{154}	2005 11 10.22652	03 15 40.72	+13 36 55.4	2005 UO_{98}	21.5	V	291
2005 VV_{154}	2005 11 10.23036	03 15 40.48	+13 36 54.4	2005 UO_{98}	21.8	V	291
2005 VW_{154}	*2005 11 12.30828	03 56 06.77	+21 14 33.0	2005 UC_{182}	21.0	V	691
2005 VW_{154}	2005 11 12.32565	03 56 05.80	+21 14 32.8	2005 UC_{182}	20.8	V	691
2005 VW_{154}	2005 11 12.34300	03 56 04.88	+21 14 32.7	2005 UC_{182}	20.9	V	691
2005 VX_{154}	*2005 11 12.30039	03 17 20.78	+13 18 00.8	2005 UV_{267}	21.9	V	291
2005 VX_{154}	2005 11 12.30610	03 17 20.45	+13 17 59.5	2005 UV_{267}	22.0	V	291
2005 VX_{154}	2005 11 12.31173	03 17 20.08	+13 17 57.9	2005 UV_{267}	21.7	V	291
2005 VY_{154}	*2005 11 05.27712	01 37 24.74	+18 33 56.2	2005 UX_{342}	20.4	V	703
2005 VY_{154}	2005 11 05.28250	01 37 24.45	+18 33 56.0	2005 UX_{342}	20.4	V	703
2005 VY_{154}	2005 11 05.28792	01 37 24.24	+18 33 55.1	2005 UX_{342}	20.5	V	703
2005 VY_{154}	2005 11 05.29331	01 37 23.84	+18 33 54.0	2005 UX_{342}	20.3	V	703
2005 VZ_{154}	*2005 11 12.30828	03 55 56.87	+21 14 48.2	2005 UC_{433}	20.7	V	691
2005 VZ_{154}	2005 11 12.32565	03 55 55.83	+21 14 47.9	2005 UC_{433}	20.6	V	691
2005 VZ_{154}	2005 11 12.34300	03 55 54.78	+21 14 48.0	2005 UC_{433}	20.8	V	691
2005 VA_{155}	*2005 11 03.20160	02 19 54.16	+08 35 25.1	2005 UO_{465}	21.0	V	691
2005 VA_{155}	2005 11 03.21898	02 19 53.19	+08 35 21.3	2005 UO_{465}	21.1	V	691
2005 VA_{155}	2005 11 03.23623	02 19 52.24	+08 35 17.4	2005 UO_{465}	21.2	V	691
2005 VB_{155}	*2005 11 04.36460	04 14 18.34	+16 50 06.3	2005 VO_{69}	20.8	V	G96
2005 VB_{155}	2005 11 04.36927	04 14 18.13	+16 50 05.4	2005 VO_{69}	20.5	V	G96
2005 VB_{155}	2005 11 04.37394	04 14 17.88	+16 50 04.6	2005 VO_{69}	20.7	V	G96
2005 VB_{155}	2005 11 04.37862	04 14 17.70	+16 50 04.2	2005 VO_{69}	20.9	V	G96
2005 VC_{155}	*2005 11 07.29782	00 43 30.87	−00 50 38.8	2005 VX_{136}	23.0		705
2005 VC_{155}	2005 11 07.29866	00 43 30.85	−00 50 38.7	2005 VX_{136}	21.9	V	705
2005 VD_{155}	*2005 11 03.36768	04 38 31.24	+22 30 41.1	2005 WE_{138}	21.1	V	691
2005 VD_{155}	2005 11 03.38520	04 38 30.54	+22 30 40.1	2005 WE_{138}	21.7	V	691
2005 VD_{155}	2005 11 03.40272	04 38 29.85	+22 30 39.1	2005 WE_{138}	21.8	V	691
2005 WF_{219}	*2005 11 30.29238	04 28 26.00	+18 54 44.6	2005 YC_{17}	21.4	V	G96
2005 WF_{219}	2005 11 30.29900	04 28 25.60	+18 54 44.8	2005 YC_{17}	20.2	V	G96
2005 WF_{219}	2005 11 30.30571	04 28 25.21	+18 54 45.3	2005 YC_{17}	20.4	V	G96
2005 WF_{219}	2005 11 30.31248	04 28 24.85	+18 54 46.0	2005 YC_{17}	20.8	V	G96
2005 WG_{219}	*2005 11 25.25493	02 26 57.87	+17 36 15.0	2005 UX_{144}	19.9	V	703
2005 WG_{219}	2005 11 25.26242	02 26 57.58	+17 36 11.6	2005 UX_{144}	20.2	V	703
2005 WG_{219}	2005 11 25.26976	02 26 57.33	+17 36 11.7	2005 UX_{144}	20.0	V	703
2005 WG_{219}	2005 11 25.27726	02 26 57.01	+17 36 07.4	2005 UX_{144}	20.2	V	703
2005 WH_{219}	*2005 11 25.13479	03 12 33.70	+15 23 37.5	2005 UZ_{377}			691
2005 WH_{219}	2005 11 25.15015	03 12 32.90	+15 23 33.1	2005 UZ_{377}			691
2005 WH_{219}	2005 11 25.16551	03 12 32.08	+15 23 28.6	2005 UZ_{377}			691
2005 WJ_{219}	*2005 11 25.14263	03 14 18.35	+21 14 38.5	2005 VU_{67}			691
2005 WJ_{219}	2005 11 25.15794	03 14 17.45	+21 14 36.2	2005 VU_{67}			691
2005 WJ_{219}	2005 11 25.17343	03 14 16.51	+21 14 33.4	2005 VU_{67}			691
2005 WK_{219}	*2005 11 19.30171	01 49 25.62	−00 36 46.8	2005 VE_{132}	23.8		705
2005 WK_{219}	2005 11 19.30253	01 49 25.62	−00 36 47.1	2005 VE_{132}	22.5	V	705
2005 WL_{219}	*2005 11 30.51828	09 42 16.45	+12 51 45.9	2005 WC_{204}	22.0	V	G96
2005 WL_{219}	2005 11 30.52281	09 42 16.81	+12 51 45.8	2005 WC_{204}	22.1	V	G96
2005 WL_{219}	2005 11 30.52730	09 42 16.95	+12 51 45.7	2005 WC_{204}	21.1	V	G96
2005 WL_{219}	2005 11 30.53182	09 42 17.24	+12 51 43.7	2005 WC_{204}	21.6	V	G96
2005 XD_{135}	*2005 12 02.15963	01 37 06.63	+09 52 21.8	2005 WJ_{123}	21.4	V	G96
2005 XD_{135}	2005 12 02.16817	01 37 06.49	+09 52 19.8	2005 WJ_{123}	21.3	V	G96
2005 XD_{135}	2005 12 02.17689	01 37 06.34	+09 52 17.4	2005 WJ_{123}	21.2	V	G96
2005 XD_{135}	2005 12 02.18562	01 37 06.24	+09 52 15.6	2005 WJ_{123}	20.9	V	G96
2005 XE_{135}	*2005 12 02.29091	04 15 29.34	+21 23 29.1	2005 WB_{130}	19.8	V	G96
2005 XE_{135}	2005 12 02.29887	04 15 28.94	+21 23 28.0	2005 WB_{130}	20.4	V	G96
2005 XE_{135}	2005 12 02.30685	04 15 28.47	+21 23 27.6	2005 WB_{130}	20.9	V	G96
2005 XE_{135}	2005 12 02.31493	04 15 28.00	+21 23 26.8	2005 WB_{130}	20.1	V	G96
2005 XF_{135}	*2005 12 03.24230	05 47 53.99	+24 15 05.5	2005 WC_{200}			691
2005 XF_{135}	2005 12 03.25964	05 47 53.02	+24 15 06.5	2005 WC_{200}			691
2005 XF_{135}	2005 12 03.27698	05 47 52.10	+24 15 07.3	2005 WC_{200}			691
2005 YA_{302}	*2005 12 21.40720	07 35 12.76	+34 22 59.8	2005 XB_{92}	19.7	V	703
2005 YA_{302}	2005 12 21.41488	07 35 12.40	+34 23 01.3	2005 XB_{92}	19.5	V	703
2005 YA_{302}	2005 12 21.42256	07 35 12.01	+34 23 01.2	2005 XB_{92}	19.0	V	703
2005 YA_{302}	2005 12 21.43021	07 35 11.58	+34 23 02.9	2005 XB_{92}	19.6	V	703
2005 YB_{302}	*2005 12 25.30031	07 23 45.28	+20 43 17.3	2005 XA_{117}	21.4	V	691
2005 YB_{302}	2005 12 25.31771	07 23 44.37	+20 43 21.3	2005 XA_{117}	21.7	V	691
2005 YB_{302}	2005 12 25.33504	07 23 43.45	+20 43 25.9	2005 XA_{117}	21.3	V	691
2005 YB_{302}	2006 01 06.28891	07 12 52.45	+21 33 03.6	2005 XA_{117}	21.2	V	G96
2005 YB_{302}	2006 01 06.29525	07 12 51.94	+21 33 04.7	2005 XA_{117}	21.1	V	G96
2005 YB_{302}	2006 01 06.30161	07 12 51.55	+21 33 06.6	2005 XA_{117}	21.9	V	G96
2005 YB_{302}	2006 01 06.30794	07 12 51.26	+21 33 08.3	2005 XA_{117}	21.9	V	G96
2005 YC_{302}	*2005 12 27.26697	04 59 22.45	+19 12 47.7	2005 YA_{41}	21.4	V	G96
2005 YC_{302}	2005 12 27.27358	04 59 22.16	+19 12 47.3	2005 YA_{41}	20.9	V	G96
2005 YC_{302}	2005 12 27.28019	04 59 21.84	+19 12 48.5	2005 YA_{41}	21.6	V	G96
2005 YC_{302}	2005 12 27.28681	04 59 21.51	+19 12 48.6	2005 YA_{41}	20.6	V	G96
2005 YD_{302}	*2005 12 28.25030	05 06 12.20	+26 32 20.4	2005 YD_{61}	20.2	V	G96
2005 YD_{302}	2005 12 28.25884	05 06 11.66	+26 32 20.5	2005 YD_{61}	20.7	V	G96
2005 YD_{302}	2005 12 28.26527	05 06 11.30	+26 32 20.5	2005 YD_{61}	20.0	V	G96
2005 YD_{302}	2005 12 28.27199	05 06 10.90	+26 32 20.9	2005 YD_{61}	20.6	V	G96
2005 YE_{302}	*2005 12 28.29034	07 17 21.98	+24 48 40.3	2006 AQ_{24}	21.6	V	G96
2005 YE_{302}	2005 12 28.29696	07 17 21.62	+24 48 40.9	2006 AQ_{24}	21.1	V	G96
2005 YE_{302}	2005 12 28.30383	07 17 21.22	+24 48 40.1	2006 AQ_{24}	21.4	V	G96
2005 YE_{302}	2005 12 28.31046	07 17 20.94	+24 48 39.9	2006 AQ_{24}	21.5	V	G96
2005 YF_{302}	*2005 12 25.41017	08 26 06.54	+17 50 47.4	2006 AQ_{94}	20.8	V	G96
2005 YF_{302}	2005 12 25.41667	08 26 06.32	+17 50 48.4	2006 AQ_{94}	21.2	V	G96
2005 YF_{302}	2005 12 25.42317	08 26 06.10	+17 50 49.2	2006 AQ_{94}	21.3	V	G96
2005 YF_{302}	2005 12 25.42964	08 26 05.85	+17 50 50.4	2006 AQ_{94}	21.5	V	G96
2006 AW_{116}	*2006 01 02.20316	03 21 13.78	+19 38 29.3	2005 UD_{113}	20.9	V	G96
2006 AW_{116}	2006 01 02.20806	03 21 13.75	+19 38 28.3	2005 UD_{113}	20.6	V	G96
2006 AW_{116}	2006 01 02.21298	03 21 13.68	+19 38 27.5	2005 UD_{113}	21.1	V	G96
2006 AW_{116}	2006 01 02.21788	03 21 13.57	+19 38 26.8	2005 UD_{113}	21.4	V	G96
2006 AX_{116}	*2006 01 04.28400	07 35 42.67	+19 02 07.1	2005 YP_{198}	21.6	V	691
2006 AX_{116}	2006 01 04.30662	07 35 41.32	+19 02 09.8	2005 YP_{198}	21.7	V	691
2006 AX_{116}	2006 01 04.32922	07 35 40.10	+19 02 14.3	2005 YP_{198}	22.0	V	691
2006 AY_{116}	*2006 01 04.46175	08 51 05.39	+16 51 57.2	2005 YK_{204}	21.3	V	691
2006 AY_{116}	2006 01 04.47918	08 51 04.51	+16 51 58.3	2005 YK_{204}	21.5	V	691
2006 AY_{116}	2006 01 04.49661	08 51 03.59	+16 51 58.9	2005 YK_{204}	21.0	V	691
2006 AZ_{116}	*2006 01 07.20748	04 03 28.54	+22 03 46.4	2005 YN_{224}	22.1	V	G96
2006 AZ_{116}	2006 01 07.21375	04 03 28.40	+22 03 45.8	2005 YN_{224}	21.4	V	G96
2006 AZ_{116}	2006 01 07.22003	04 03 28.36	+22 03 45.2	2005 YN_{224}	20.9	V	G96
2006 AZ_{116}	2006 01 07.22641	04 03 28.22	+22 03 45.5	2005 YN_{224}	20.7	V	G96
2006 AA_{117}	*2006 01 07.37765	08 26 44.37	+23 57 33.3	2005 YY_{252}	21.5	V	691
2006 AA_{117}	2006 01 07.39508	08 26 43.23	+23 57 34.9	2005 YY_{252}	21.3	V	691
2006 AA_{117}	2006 01 07.41252	08 26 42.13	+23 57 36.5	2005 YY_{252}	21.4	V	691

2006 AB_{117}	*2006 01 08.36376	08 24 17.19	+18 04 52.8	2005 YY_{267}	21.4	V	691
2006 AB_{117}	2006 01 08.38107	08 24 16.16	+18 04 52.9	2005 YY_{267}	21.3	V	691
2006 AB_{117}	2006 01 08.39840	08 24 15.20	+18 04 51.3	2005 YY_{267}	21.0	V	691
2006 AC_{117}	*2006 01 07.44137	09 06 46.02	+23 10 14.8	2006 AN_{79}	19.8	V	691
2006 AC_{117}	2006 01 07.45868	09 06 45.33	+23 10 15.1	2006 AN_{79}	19.8	V	691
2006 AC_{117}	2006 01 07.47715	09 06 44.62	+23 10 15.4	2006 AN_{79}	19.9	V	691
2006 AD_{117}	*2006 01 08.38521	08 51 47.62	+14 54 58.3	2006 BH_{58}	21.6	V	G96
2006 AD_{117}	2006 01 08.39222	08 51 47.30	+14 54 58.8	2006 BH_{58}	21.8	V	G96
2006 AD_{117}	2006 01 08.39921	08 51 46.90	+14 54 59.4	2006 BH_{58}	21.4	V	G96
2006 AD_{117}	2006 01 08.40625	08 51 46.58	+14 55 00.4	2006 BH_{58}	21.5	V	G96
2006 BV_{301}	*2006 01 22.40023	08 19 03.93	+19 42 02.9	2006 AR_{91}	21.2	V	G96
2006 BV_{301}	2006 01 22.40527	08 19 03.64	+19 42 02.5	2006 AR_{91}	20.8	V	G96
2006 BV_{301}	2006 01 22.41036	08 19 03.32	+19 42 02.3	2006 AR_{91}	20.9	V	G96
2006 BV_{301}	2006 01 22.41541	08 19 03.07	+19 42 02.3	2006 AR_{91}	21.1	V	G96
2006 BW_{301}	*2006 01 22.40023	08 18 48.56	+20 00 39.9	2006 AS_{91}	21.6	V	G96
2006 BW_{301}	2006 01 22.40527	08 18 48.27	+20 00 39.7	2006 AS_{91}	21.4	V	G96
2006 BW_{301}	2006 01 22.41036	08 18 47.95	+20 00 40.2	2006 AS_{91}	21.1	V	G96
2006 BW_{301}	2006 01 22.41541	08 18 47.70	+20 00 40.6	2006 AS_{91}	21.1	V	G96
2006 BX_{301}	*2006 01 27.23772	07 55 14.88	+23 20 21.9	2006 AB_{116}	20.9	V	G96
2006 BX_{301}	2006 01 27.24773	07 55 14.30	+23 20 25.0	2006 AB_{116}	20.9	V	G96
2006 BX_{301}	2006 01 27.25324	07 55 13.98	+23 20 26.0	2006 AB_{116}	20.9	V	G96
2006 BX_{301}	2006 01 27.25870	07 55 13.69	+23 20 27.7	2006 AB_{116}	21.2	V	G96
2006 BY_{301}	*2006 01 26.32962	08 22 51.06	+21 04 36.2	2006 BF_{42}	21.6	V	G96
2006 BY_{301}	2006 01 26.33648	08 22 50.66	+21 04 37.6	2006 BF_{42}	21.5	V	G96
2006 BY_{301}	2006 01 26.34336	08 22 50.30	+21 04 38.6	2006 BF_{42}	21.5	V	G96
2006 BY_{301}	2006 01 26.35027	08 22 49.87	+21 04 39.9	2006 BF_{42}	22.1	V	G96
2006 BZ_{301}	*2006 01 27.19110	08 44 38.06	+21 05 35.7	2006 BQ_{59}			291
2006 BZ_{301}	2006 01 27.19510	08 44 37.77	+21 05 35.1	2006 BQ_{59}			291
2006 BZ_{301}	2006 01 27.19921	08 44 37.50	+21 05 34.4	2006 BQ_{59}			291
2006 BA_{302}	*2006 01 30.31880	09 30 33.40	+04 41 24.1	2006 BO_{144}	19.9	V	703
2006 BA_{302}	2006 01 30.32362	09 30 33.12	+04 41 24.5	2006 BO_{144}	19.5	V	703
2006 BA_{302}	2006 01 30.32845	09 30 32.86	+04 41 25.6	2006 BO_{144}	19.6	V	703
2006 BA_{302}	2006 01 30.33326	09 30 32.58	+04 41 25.2	2006 BO_{144}	19.3	V	703
2006 BB_{302}	*2006 01 31.40311	10 43 16.84	+10 00 58.0	2006 BY_{169}	21.5	V	691
2006 BB_{302}	2006 01 31.42050	10 43 16.27	+10 01 04.4	2006 BY_{169}	21.1	V	691
2006 BB_{302}	2006 01 31.43788	10 43 15.72	+10 01 11.5	2006 BY_{169}	21.2	V	691
2006 BC_{302}	*2006 01 28.34488	10 44 15.46	+06 28 04.8	2006 DA_{54}	22.4	V	G96
2006 BC_{302}	2006 01 28.35091	10 44 15.21	+06 28 04.9	2006 DA_{54}	21.2	V	G96
2006 BC_{302}	2006 01 28.35694	10 44 15.07	+06 28 05.5	2006 DA_{54}	21.4	V	G96
2006 BC_{302}	2006 01 28.36297	10 44 14.92	+06 28 06.6	2006 DA_{54}	22.0	V	G96
2006 BD_{302}	*2006 01 31.45489	11 18 14.67	+06 46 27.8	2006 EA_{3}	21.2	V	691
2006 BD_{302}	2006 01 31.47228	11 18 14.24	+06 46 32.0	2006 EA_{3}	21.3	V	691
2006 BD_{302}	2006 01 31.48966	11 18 13.80	+06 46 36.4	2006 EA_{3}	21.9	V	691
2006 CS_{90}	*2006 02 06.20789	08 19 13.80	+21 28 37.5	2006 BM_{42}	21.4	V	G96
2006 CS_{90}	2006 02 06.21397	08 19 13.40	+21 28 38.7	2006 BM_{42}	21.0	V	G96
2006 CS_{90}	2006 02 06.22010	08 19 13.11	+21 28 39.0	2006 BM_{42}	21.2	V	G96
2006 CS_{90}	2006 02 06.22625	08 19 12.72	+21 28 39.6	2006 BM_{42}	21.1	V	G96
2006 CT_{90}	*2006 02 04.40766	10 13 50.06	+08 39 32.6	2006 BM_{137}	20.5	V	G96
2006 CT_{90}	2006 02 04.41442	10 13 49.75	+08 39 34.6	2006 BM_{137}	20.5	V	G96
2006 CT_{90}	2006 02 04.42126	10 13 49.36	+08 39 36.5	2006 BM_{137}	20.5	V	G96
2006 CT_{90}	2006 02 04.42811	10 13 49.07	+08 39 39.1	2006 BM_{137}	20.5	V	G96
2006 CU_{90}	*2006 02 01.29639	09 00 32.32	+16 08 53.5	2006 BJ_{209}	19.8	V	G96
2006 CU_{90}	2006 02 01.30550	09 00 31.78	+16 08 57.0	2006 BJ_{209}	20.2	V	G96
2006 CU_{90}	2006 02 01.31455	09 00 31.17	+16 09 00.8	2006 BJ_{209}	20.2	V	G96
2006 CU_{90}	2006 02 01.32348	09 00 30.60	+16 09 04.6	2006 BJ_{209}	20.3	V	G96
2006 CV_{90}	*2006 02 01.29639	09 00 39.34	+16 07 11.8	2006 BL_{209}	21.8	V	G96
2006 CV_{90}	2006 02 01.30550	09 00 38.84	+16 07 14.2	2006 BL_{209}	21.4	V	G96
2006 CV_{90}	2006 02 01.31455	09 00 38.34	+16 07 16.8	2006 BL_{209}	21.2	V	G96
2006 CV_{90}	2006 02 01.32348	09 00 37.87	+16 07 19.0	2006 BL_{209}	21.6	V	G96
2006 CW_{90}	*2006 02 05.18645	07 32 24.64	+22 10 44.9	2006 BE_{282}	21.4	V	G96
2006 CW_{90}	2006 02 05.19488	07 32 24.21	+22 10 44.1	2006 BE_{282}	20.6	V	G96
2006 CW_{90}	2006 02 05.20326	07 32 23.82	+22 10 43.1	2006 BE_{282}	21.5	V	G96
2006 CW_{90}	2006 02 05.21181	07 32 23.35	+22 10 42.4	2006 BE_{282}	20.5	V	G96
2006 CX_{90}	*2006 02 07.33477	10 16 10.66	+08 03 56.1	2006 CP_{56}			691
2006 CX_{90}	2006 02 07.35208	10 16 09.57	+08 03 57.5	2006 CP_{56}			691
2006 CX_{90}	2006 02 07.36944	10 16 08.58	+08 03 59.7	2006 CP_{56}			691
2006 CY_{90}	*2006 02 06.30677	09 06 33.48	+18 17 33.9	2006 CB_{73}	21.0	r	568
2006 CY_{90}	2006 02 06.34646	09 06 30.89	+18 17 44.1	2006 CB_{73}	21.2	r	568
2006 CY_{90}	2006 02 06.38730	09 06 28.21	+18 17 54.3	2006 CB_{73}	21.1	r	568
2006 CZ_{90}	*2006 02 06.31969	09 18 23.44	+17 16 31.3	2006 CW_{75}	22.0	r	568
2006 CZ_{90}	2006 02 06.35978	09 18 21.32	+17 16 40.7	2006 CW_{75}	22.4	r	568
2006 CZ_{90}	2006 02 06.39913	09 18 19.23	+17 16 49.9	2006 CW_{75}	22.4	r	568
2006 CA_{91}	*2006 02 06.31769	09 16 25.06	+15 57 16.7	2006 CF_{76}	20.5	r	568
2006 CA_{91}	2006 02 06.35765	09 16 22.67	+15 57 15.2	2006 CF_{76}	20.5	r	568
2006 CA_{91}	2006 02 06.39668	09 16 20.36	+15 57 13.6	2006 CF_{76}	20.8	r	568
2006 CB_{91}	*2006 02 06.32156	09 17 51.60	+16 17 58.5	2006 CL_{76}	20.7	r	568
2006 CB_{91}	2006 02 06.36197	09 17 48.92	+16 18 08.9	2006 CL_{76}	20.5	r	568
2006 CB_{91}	2006 02 06.40101	09 17 46.32	+16 18 18.9	2006 CL_{76}	20.3	r	568
2006 CC_{91}	*2006 02 06.33314	09 29 29.41	+16 12 02.0	2006 CR_{78}	22.4	r	568
2006 CC_{91}	2006 02 06.37393	09 29 27.39	+16 12 14.4	2006 CR_{78}	22.2	r	568
2006 CC_{91}	2006 02 06.41210	09 29 25.49	+16 12 26.4	2006 CR_{78}	22.2	r	568
2006 CD_{91}	*2006 02 06.33077	09 26 49.69	+15 51 05.2	2006 CC_{79}	22.5	r	568
2006 CD_{91}	2006 02 06.37156	09 26 47.61	+15 51 15.0	2006 CC_{79}	22.8	r	568
2006 CD_{91}	2006 02 06.40970	09 26 45.64	+15 51 23.4	2006 CC_{79}	22.8	r	568
2006 CE_{91}	*2006 02 06.32831	09 27 19.54	+16 09 22.2	2006 CG_{79}	22.3	r	568
2006 CE_{91}	2006 02 06.36908	09 27 17.40	+16 09 50.7	2006 CG_{79}	22.5	r	568
2006 CE_{91}	2006 02 06.40731	09 27 15.38	+16 10 17.3	2006 CG_{79}	22.3	r	568
2006 CF_{91}	*2006 02 06.33077	09 28 10.25	+15 21 17.8	2006 CQ_{79}	23.2	r	568
2006 CF_{91}	2006 02 06.37156	09 28 08.03	+15 21 32.4	2006 CQ_{79}	22.9	r	568
2006 CF_{91}	2006 02 06.40970	09 28 05.95	+15 21 46.3	2006 CQ_{79}	23.0	r	568
2006 CG_{91}	*2006 02 06.33755	08 57 39.59	+18 24 05.0	2006 CF_{80}	21.4	r	568
2006 CG_{91}	2006 02 06.37865	08 57 37.27	+18 24 19.3	2006 CF_{80}	21.4	r	568
2006 CG_{91}	2006 02 06.41632	08 57 35.14	+18 24 32.4	2006 CF_{80}	21.4	r	568
2006 CH_{91}	*2006 02 06.33955	08 58 17.64	+17 56 50.6	2006 CM_{80}	21.9	r	568
2006 CH_{91}	2006 02 06.38057	08 58 15.41	+17 57 06.4	2006 CM_{80}	21.8	r	568
2006 CH_{91}	2006 02 06.41843	08 58 13.34	+17 57 20.9	2006 CM_{80}	21.8	r	568
2006 CJ_{91}	*2006 02 04.50295	11 48 58.24	+08 25 22.8	2006 EE_{54}	20.9	V	G96
2006 CJ_{91}	2006 02 04.50840	11 48 58.14	+08 25 23.0	2006 EE_{54}	20.8	V	G96
2006 CJ_{91}	2006 02 04.51381	11 48 57.99	+08 25 23.9	2006 EE_{54}	20.6	V	G96
2006 CJ_{91}	2006 02 04.51922	11 48 57.85	+08 25 24.1	2006 EE_{54}	20.7	V	G96
2006 DF_{226}	*2006 02 24.27517	09 42 42.73	+11 58 01.9	2006 BA_{282}	21.0	V	G96
2006 DF_{226}	2006 02 24.28058	09 42 42.48	+11 58 02.7	2006 BA_{282}	21.1	V	G96
2006 DF_{226}	2006 02 24.28594	09 42 42.22	+11 58 02.3	2006 BA_{282}	22.2	V	G96
2006 DF_{226}	2006 02 24.29139	09 42 41.94	+11 58 03.4	2006 BA_{282}	21.6	V	G96
2006 DG_{226}	*2006 02 20.33398	10 13 37.56	+10 41 06.7	2006 BS_{282}	21.2	V	G96
2006 DG_{226}	2006 02 20.35623	10 13 36.30	+10 41 10.9	2006 BS_{282}	20.9	V	G96

2006 DG_{226}	2006 02 20.36310	10 13 35.94	+10 41 12.3	2006 BS_{282}	21.6	V	G96
2006 DG_{226}	2006 02 20.37065	10 13 35.47	+10 41 13.8	2006 BS_{282}	21.9	V	G96
2006 DG_{226}	2006 03 05.24700	10 02 01.53	+11 21 00.2	2006 BS_{282}	20.8	V	G96
2006 DG_{226}	2006 03 05.25311	10 02 01.28	+11 21 01.3	2006 BS_{282}	20.8	V	G96
2006 DG_{226}	2006 03 05.25929	10 02 00.96	+11 21 02.1	2006 BS_{282}	21.5	V	G96
2006 DG_{226}	2006 03 05.26551	10 02 00.60	+11 21 03.6	2006 BS_{282}	21.6	V	G96
2006 DH_{226}	*2006 02 24.27094	09 06 16.88	+14 45 43.3	2006 CW_{68}	21.6	V	G96
2006 DH_{226}	2006 02 24.27640	09 06 16.63	+14 45 43.8	2006 CW_{68}	21.2	V	G96
2006 DH_{226}	2006 02 24.28179	09 06 16.38	+14 45 45.7	2006 CW_{68}	21.3	V	G96
2006 DH_{226}	2006 02 24.28714	09 06 16.16	+14 45 47.2	2006 CW_{68}	21.5	V	G96
2006 DJ_{226}	*2006 02 24.24346	08 11 51.82	+19 02 43.2	2006 DY_{14}	20.9	V	G96
2006 DJ_{226}	2006 02 24.25021	08 11 51.68	+19 02 43.8	2006 DY_{14}	20.9	V	G96
2006 DJ_{226}	2006 02 24.25714	08 11 51.39	+19 02 43.2	2006 DY_{14}	21.3	V	G96
2006 DJ_{226}	2006 02 24.26387	08 11 51.18	+19 02 43.1	2006 DY_{14}	21.2	V	G96
2006 DK_{226}	*2006 02 28.29688	10 32 46.39	+08 51 00.1	2006 DW_{70}	21.1	V	G96
2006 DK_{226}	2006 02 28.30240	10 32 46.14	+08 51 01.4	2006 DW_{70}	21.1	V	G96
2006 DK_{226}	2006 02 28.30792	10 32 45.85	+08 51 02.9	2006 DW_{70}	21.9	V	G96
2006 DK_{226}	2006 02 28.31352	10 32 45.56	+08 51 04.1	2006 DW_{70}	21.3	V	G96
2006 DL_{226}	*2006 02 27.29392	10 11 14.92	+13 25 14.5	2006 DL_{72}	21.9	V	G96
2006 DL_{226}	2006 02 27.29874	10 11 14.67	+13 25 15.9	2006 DL_{72}	22.3	V	G96
2006 DL_{226}	2006 02 27.30357	10 11 14.49	+13 25 17.1	2006 DL_{72}	21.7	V	G96
2006 DL_{226}	2006 02 27.30839	10 11 14.17	+13 25 17.9	2006 DL_{72}	21.8	V	G96
2006 DM_{226}	*2006 02 27.29609	10 29 36.88	+12 37 25.9	2006 DW_{72}	21.1	V	G96
2006 DM_{226}	2006 02 27.30091	10 29 36.56	+12 37 27.5	2006 DW_{72}	21.6	V	G96
2006 DM_{226}	2006 02 27.30574	10 29 36.20	+12 37 28.9	2006 DW_{72}	21.6	V	G96
2006 DM_{226}	2006 02 27.31059	10 29 35.95	+12 37 30.2	2006 DW_{72}	21.4	V	G96
2006 DN_{226}	*2006 02 27.27689	11 47 39.55	+04 11 51.3	2006 DE_{180}	21.0	V	691
2006 DN_{226}	2006 02 27.29419	11 47 38.88	+04 11 57.3	2006 DE_{180}	20.5	V	691
2006 DN_{226}	2006 02 27.31148	11 47 38.20	+04 12 03.9	2006 DE_{180}	20.7	V	691
2006 DO_{226}	*2006 02 21.34552	10 38 37.57	+08 24 10.4	2006 EB_{68}	21.7	V	G96
2006 DO_{226}	2006 02 21.35418	10 38 37.14	+08 24 11.5	2006 EB_{68}	21.0	V	G96
2006 DO_{226}	2006 02 21.36276	10 38 36.70	+08 24 14.1	2006 EB_{68}	21.9	V	G96
2006 DO_{226}	2006 02 21.37135	10 38 36.24	+08 24 16.6	2006 EB_{68}	21.6	V	G96
2006 EX_{82}	*2006 03 03.22178	11 11 23.51	+06 18 33.2	2006 BD_{97}			691
2006 EX_{82}	2006 03 03.23910	11 11 22.60	+06 18 38.9	2006 BD_{97}			691
2006 EX_{82}	2006 03 03.25645	11 11 21.73	+06 18 46.5	2006 BD_{97}			691
2006 EY_{82}	*2006 03 05.10370	09 23 13.10	+18 51 00.6	2006 BB_{282}	21.2	V	691
2006 EY_{82}	2006 03 05.11962	09 23 12.42	+18 51 02.4	2006 BB_{282}	21.9	V	691
2006 EY_{82}	2006 03 05.13553	09 23 11.77	+18 51 04.2	2006 BB_{282}	21.4	V	691
2006 FO_{61}	*2006 03 23.30656	11 18 58.39	+03 59 12.4	2006 DN_{81}	21.4	V	G96
2006 FO_{61}	2006 03 23.31135	11 18 58.17	+03 59 15.1	2006 DN_{81}	21.1	V	G96
2006 FO_{61}	2006 03 23.31604	11 18 57.92	+03 59 16.9	2006 DN_{81}	21.5	V	G96
2006 FO_{61}	2006 03 23.32060	11 18 57.78	+03 59 18.9	2006 DN_{81}	21.5	V	G96
2006 FP_{61}	*2006 03 26.26341	11 37 51.67	+05 37 47.7	2006 DH_{172}	21.4	V	G96
2006 FP_{61}	2006 03 26.27004	11 37 51.27	+05 37 49.0	2006 DH_{172}	21.5	V	G96
2006 FP_{61}	2006 03 26.27683	11 37 50.84	+05 37 50.2	2006 DH_{172}	21.9	V	G96
2006 FP_{61}	2006 03 26.28337	11 37 50.48	+05 37 50.9	2006 DH_{172}	21.0	V	G96
2006 HS_{160}	*2006 04 21.16478	11 07 22.94	+06 27 33.5	2006 DU_{179}	20.4	V	G96
2006 HS_{160}	2006 04 21.17269	11 07 22.80	+06 27 32.4	2006 DU_{179}	20.2	V	G96
2006 HS_{160}	2006 04 21.18043	11 07 22.65	+06 27 31.2	2006 DU_{179}	20.1	V	G96
2006 HS_{160}	2006 04 21.18816	11 07 22.51	+06 27 30.2	2006 DU_{179}	20.5	V	G96
2006 HT_{160}	*2006 04 24.38122	16 03 50.94	−07 54 29.2	2006 HH_{27}	21.3	V	691
2006 HT_{160}	2006 04 24.39846	16 03 50.39	−07 54 22.9	2006 HH_{27}	21.7	V	691
2006 HT_{160}	2006 04 24.41572	16 03 49.81	−07 54 17.8	2006 HH_{27}	21.4	V	691
2006 HU_{160}	*2006 04 21.40962	15 50 21.54	−04 17 33.7	2006 JD_{45}			691
2006 HU_{160}	2006 04 21.42700	15 50 20.91	−04 17 30.8	2006 JD_{45}			691
2006 HU_{160}	2006 04 21.44437	15 50 20.30	−04 17 27.9	2006 JD_{45}			691
2006 JJ_{89}	*2006 05 06.17048	12 33 05.83	−04 42 01.6	2006 HX_{115}	21.1	V	G96
2006 JJ_{89}	2006 05 06.17566	12 33 05.68	−04 42 00.9	2006 HX_{115}	21.4	V	G96
2006 JJ_{89}	2006 05 06.18090	12 33 05.58	−04 42 00.7	2006 HX_{115}	21.1	V	G96
2006 JJ_{89}	2006 05 06.18608	12 33 05.36	−04 42 00.8	2006 HX_{115}	21.7	V	G96
2006 JK_{89}	*2006 05 04.24028	14 50 07.02	−18 19 24.7	2006 HZ_{116}	20.9	V	691
2006 JK_{89}	2006 05 04.25763	14 50 06.19	−18 19 14.3	2006 HZ_{116}	20.4	V	691
2006 JK_{89}	2006 05 04.27497	14 50 05.35	−18 19 04.1	2006 HZ_{116}	20.9	V	691
2006 JL_{89}	*2006 05 02.29359	14 30 30.60	−15 13 53.9	2006 HQ_{124}	20.7	V	G96
2006 JL_{89}	2006 05 02.29815	14 30 30.38	−15 13 52.2	2006 HQ_{124}	20.8	V	G96
2006 JL_{89}	2006 05 02.30258	14 30 30.16	−15 13 50.8	2006 HQ_{124}	21.1	V	G96
2006 JL_{89}	2006 05 02.30726	14 30 29.88	−15 13 48.4	2006 HQ_{124}	20.4	V	G96
2006 JM_{89}	*2006 05 06.33683	15 54 47.23	−17 59 06.4	2006 HS_{153}	19.2	V	G96
2006 JM_{89}	2006 05 06.34247	15 54 46.98	−17 59 04.7	2006 HS_{153}	19.1	V	G96
2006 JM_{89}	2006 05 06.34825	15 54 46.69	−17 59 02.7	2006 HS_{153}	19.2	V	G96
2006 JM_{89}	2006 05 06.35392	15 54 46.44	−17 59 00.9	2006 HS_{153}	19.0	V	G96
2006 JM_{89}	2006 05 20.35791	15 43 39.06	−16 40 29.9	2006 HS_{153}	19.6	V	691
2006 JM_{89}	2006 05 20.37526	15 43 38.18	−16 40 24.1	2006 HS_{153}	19.7	V	691
2006 JM_{89}	2006 05 20.39253	15 43 37.32	−16 40 18.1	2006 HS_{153}	19.8	V	691
2006 JM_{89}	2006 05 20.64442	15 43 25.17	−16 38 49.5	2006 HS_{153}	19.1	V	E12
2006 JM_{89}	2006 05 20.65150	15 43 24.78	−16 38 47.3	2006 HS_{153}	18.9	V	E12
2006 JM_{89}	2006 05 20.65859	15 43 24.45	−16 38 45.3	2006 HS_{153}	18.9	V	E12
2006 JM_{89}	2006 05 20.66566	15 43 24.06	−16 38 42.9	2006 HS_{153}	19.2	V	E12
2006 JN_{89}	*2006 05 09.32804	16 13 01.02	−11 48 58.6	2006 KC_{80}	20.3	V	G96
2006 JN_{89}	2006 05 09.33278	16 13 00.80	−11 48 57.9	2006 KC_{80}	21.0	V	G96
2006 JN_{89}	2006 05 09.33713	16 13 00.55	−11 48 56.6	2006 KC_{80}	20.4	V	G96
2006 JN_{89}	2006 05 09.34160	16 13 00.30	−11 48 55.0	2006 KC_{80}	20.5	V	G96
2006 KL_{156}	*2006 05 19.85760	13 23 55.89	−14 59 17.9	2006 HM_{58}	20.2	V	A55
2006 KL_{156}	2006 05 19.87932	13 23 55.09	−14 59 10.9	2006 HM_{58}	20.3	V	A55
2006 KM_{156}	*2006 05 23.18245	13 47 34.47	−10 59 06.7	2006 JR_{75}	20.9	V	G96
2006 KM_{156}	2006 05 23.18876	13 47 34.18	−10 59 06.3	2006 JR_{75}	20.8	V	G96
2006 KM_{156}	2006 05 23.19478	13 47 33.93	−10 59 06.4	2006 JR_{75}	20.8	V	G96
2006 KM_{156}	2006 05 23.20094	13 47 33.64	−10 59 06.3	2006 JR_{75}	20.9	V	G96
2006 KN_{156}	*2006 05 24.34707	15 34 37.16	−17 39 43.4	2006 KZ_{40}	21.2	V	G96
2006 KN_{156}	2006 05 24.35215	15 34 36.94	−17 39 43.0	2006 KZ_{40}	21.4	V	G96
2006 KN_{156}	2006 05 24.35723	15 34 36.62	−17 39 43.0	2006 KZ_{40}	20.3	V	G96
2006 KN_{156}	2006 05 24.36234	15 34 36.33	−17 39 41.6	2006 KZ_{40}	21.3	V	G96
2006 OR_{40}	*2006 07 21.34155	21 46 47.10	−12 56 14.4	2006 QD_{140}	20.5	V	G96
2006 OR_{40}	2006 07 21.34615	21 46 46.95	−12 56 14.7	2006 QD_{140}	20.4	V	G96
2006 OR_{40}	2006 07 21.35066	21 46 46.81	−12 56 15.3	2006 QD_{140}	20.4	V	G96
2006 OR_{40}	2006 07 21.35517	21 46 46.70	−12 56 15.7	2006 QD_{140}	20.5	V	G96
2006 OS_{40}	*2006 07 28.00714	23 25 42.26	+00 34 29.0	2006 RP_{7}	20.4	V	A50
2006 OS_{40}	2006 07 28.02301	23 25 42.32	+00 34 30.6	2006 RP_{7}	21.1	V	A50
2006 QL_{207}	*2006 08 28.29067	22 50 22.06	−07 49 47.6	2006 QE_{67}	20.8	V	691
2006 QL_{207}	2006 08 28.30797	22 50 21.21	−07 49 54.4	2006 QE_{67}	21.1	V	691
2006 QL_{207}	2006 08 28.32816	22 50 20.22	−07 50 02.5	2006 QE_{67}	21.0	V	691
2006 QM_{207}	*2006 08 27.22640	22 29 58.75	−07 37 39.0	2006 QE_{177}	21.0	V	691
2006 QM_{207}	2006 08 27.24379	22 29 57.88	−07 37 44.2	2006 QE_{177}	21.6	V	691
2006 QM_{207}	2006 08 27.26117	22 29 57.02	−07 37 50.2	2006 QE_{177}	21.2	V	691
2006 RT_{126}	*2006 09 14.32020	23 41 21.55	−07 12 56.7	2006 RP_{2}	20.9	V	703

2006 RT_{126}	2006 09 14.32734	23 41 21.22	−07 13 01.8	2006 RP_2	20.8	V	703
2006 RT_{126}	2006 09 14.33447	23 41 20.79	−07 13 04.2	2006 RP_2	19.9	V	703
2006 RT_{126}	2006 09 14.34163	23 41 20.36	−07 13 06.5	2006 RP_2	19.5	V	703
2006 RT_{126}	2006 09 25.89071	23 32 05.28	−08 25 51.9	2006 RP_2	19.2	R	A79
2006 RT_{126}	2006 09 25.89881	23 32 04.84	−08 25 53.1	2006 RP_2	20.0	R	A79
2006 RT_{126}	2006 09 25.90796	23 32 04.38	−08 25 56.5	2006 RP_2	19.5	R	A79
2006 SO_{457}	*2006 09 28.18456	22 20 06.18	−06 15 15.8	2006 QV_{101}	21.8	V	G96
2006 SO_{457}	2006 09 28.19230	22 20 06.00	−06 15 16.5	2006 QV_{101}	21.1	V	G96
2006 SO_{457}	2006 09 28.20005	22 20 05.67	−06 15 18.6	2006 QV_{101}	21.5	V	G96
2006 SO_{457}	2006 09 28.20792	22 20 05.46	−06 15 19.8	2006 QV_{101}	21.3	V	G96
2006 SP_{457}	*2006 09 17.20184	22 24 09.54	−01 05 52.7	2006 QU_{166}	19.7	V	703
2006 SP_{457}	2006 09 17.21485	22 24 09.00	−01 05 55.1	2006 QU_{166}	19.8	V	703
2006 SP_{457}	2006 09 17.22786	22 24 08.38	−01 05 54.8	2006 QU_{166}	20.0	V	703
2006 SP_{457}	2006 09 17.24080	22 24 07.77	−01 05 58.7	2006 QU_{166}	19.9	V	703
2006 SQ_{457}	*2006 09 22.11634	22 06 13.62	+02 59 09.2	2006 QE_{179}	20.7	V	691
2006 SQ_{457}	2006 09 22.12925	22 06 12.62	+02 59 12.0	2006 QE_{179}	20.9	V	691
2006 SQ_{457}	2006 09 22.14216	22 06 11.70	+02 59 14.9	2006 QE_{179}	20.7	V	691
2006 SR_{457}	*2006 09 23.79244	22 37 17.73	−06 40 00.2	2006 RU_1	19.3	R	152
2006 SR_{457}	2006 09 23.80208	22 37 17.66	−06 40 01.3	2006 RU_1	19.7	R	152
2006 SS_{457}	*2006 09 24.94140	00 11 00.27	+15 46 14.8	2006 SD_{78}			621
2006 SS_{457}	2006 09 24.95161	00 10 59.76	+15 46 13.6	2006 SD_{78}			621
2006 SS_{457}	2006 09 24.96181	00 10 59.20	+15 46 12.7	2006 SD_{78}	21	R	621
2006 ST_{457}	*2006 09 27.24005	00 44 34.62	+01 13 30.8	2006 SR_{188}	22.5	V	G96
2006 ST_{457}	2006 09 27.24469	00 44 34.44	+01 13 29.3	2006 SR_{188}	21.2	V	G96
2006 ST_{457}	2006 09 27.24934	00 44 34.22	+01 13 28.3	2006 SR_{188}	21.5	V	G96
2006 ST_{457}	2006 09 27.25397	00 44 34.00	+01 13 26.7	2006 SR_{188}	21.5	V	G96
2006 SU_{457}	*2006 09 27.91326	23 59 17.07	+00 41 07.1	2006 SC_{218}	20.0	R	J75
2006 SU_{457}	2006 09 27.93032	23 59 16.29	+00 41 07.3	2006 SC_{218}	20.8	R	J75
2006 SV_{457}	*2006 09 30.20988	22 56 38.58	−07 58 56.5	2006 SU_{235}	21.4	V	G96
2006 SV_{457}	2006 09 30.21788	22 56 38.25	−07 58 59.0	2006 SU_{235}	20.6	V	G96
2006 SV_{457}	2006 09 30.22569	22 56 37.96	−07 59 02.4	2006 SU_{235}	21.2	V	G96
2006 SV_{457}	2006 09 30.23340	22 56 37.71	−07 59 05.2	2006 SU_{235}	20.9	V	G96
2006 SW_{457}	*2006 09 30.31366	02 53 26.88	+14 04 44.1	2006 UX_{287}	21.0	V	G96
2006 SW_{457}	2006 09 30.32220	02 53 26.62	+14 04 42.4	2006 UX_{287}	21.2	V	G96
2006 SW_{457}	2006 09 30.33068	02 53 26.34	+14 04 41.1	2006 UX_{287}	20.9	V	G96
2006 SW_{457}	2006 09 30.33898	02 53 26.08	+14 04 39.7	2006 UX_{287}	20.7	V	G96
2006 TZ_{143}	*2006 10 02.23240	00 17 24.79	+02 39 09.1	2006 SH_{180}	19.9	V	G96
2006 TZ_{143}	2006 10 02.23595	00 17 24.64	+02 39 07.0	2006 SH_{180}	20.0	V	G96
2006 TZ_{143}	2006 10 02.23943	00 17 24.50	+02 39 05.6	2006 SH_{180}	20.1	V	G96
2006 TZ_{143}	2006 10 02.24294	00 17 24.32	+02 39 03.9	2006 SH_{180}	19.9	V	G96
2006 TA_{144}	*2006 10 01.36684	01 34 55.04	+05 36 22.6	2006 SY_{315}			691
2006 TA_{144}	2006 10 01.38418	01 34 54.24	+05 36 17.5	2006 SY_{315}			691
2006 TA_{144}	2006 10 01.40151	01 34 53.50	+05 36 13.2	2006 SY_{315}			691
2006 TB_{144}	*2006 10 02.32397	01 51 56.08	+07 27 46.1	2006 SR_{328}	21.8	V	G96
2006 TB_{144}	2006 10 02.33056	01 51 55.83	+07 27 44.6	2006 SR_{328}	21.6	V	G96
2006 TB_{144}	2006 10 02.33718	01 51 55.54	+07 27 43.0	2006 SR_{328}	21.3	V	G96
2006 TB_{144}	2006 10 02.34377	01 51 55.29	+07 27 41.5	2006 SR_{328}	21.6	V	G96
2006 TC_{144}	*2006 10 02.33024	01 32 19.10	+15 41 15.8	2006 SB_{346}			691
2006 TC_{144}	2006 10 02.34755	01 32 18.27	+15 41 11.0	2006 SB_{346}			691
2006 TC_{144}	2006 10 02.36487	01 32 17.46	+15 41 05.4	2006 SB_{346}			691
2006 TD_{144}	*2006 10 03.40358	03 16 27.55	+14 34 08.1	2006 SA_{362}	20.1	V	G96
2006 TD_{144}	2006 10 03.40937	03 16 27.37	+14 34 07.5	2006 SA_{362}	20.6	V	G96
2006 TD_{144}	2006 10 03.41510	03 16 27.19	+14 34 07.1	2006 SA_{362}	20.4	V	G96
2006 TD_{144}	2006 10 03.42078	03 16 27.01	+14 34 06.7	2006 SA_{362}	20.2	V	G96
2006 TE_{144}	*2006 10 03.40029	03 00 09.57	+11 42 25.8	2006 UX_6	22.0	V	G96
2006 TE_{144}	2006 10 03.40602	03 00 09.43	+11 42 24.7	2006 UX_6	21.5	V	G96
2006 TE_{144}	2006 10 03.41175	03 00 09.25	+11 42 24.8	2006 UX_6	21.1	V	G96
2006 TE_{144}	2006 10 03.41746	03 00 09.10	+11 42 23.6	2006 UX_6	21.3	V	G96
2006 TF_{144}	*2006 10 03.37373	02 40 54.22	+10 29 04.2	2006 UT_{170}	20.6	V	G96
2006 TF_{144}	2006 10 03.38043	02 40 53.97	+10 29 02.9	2006 UT_{170}	20.6	V	G96
2006 TF_{144}	2006 10 03.38723	02 40 53.79	+10 29 01.7	2006 UT_{170}	20.6	V	G96
2006 TF_{144}	2006 10 03.39374	02 40 53.54	+10 29 00.2	2006 UT_{170}	20.4	V	G96
2006 UC_{391}	*2006 10 16.24130	00 09 21.96	+00 48 40.5	2006 SE_{110}	21.2	V	G96
2006 UC_{391}	2006 10 16.24815	00 09 21.63	+00 48 39.4	2006 SE_{110}	21.4	V	G96
2006 UC_{391}	2006 10 16.25487	00 09 21.34	+00 48 38.3	2006 SE_{110}	22.2	V	G96
2006 UC_{391}	2006 10 16.26160	00 09 20.98	+00 48 38.3	2006 SE_{110}	21.7	V	G96
2006 UD_{391}	*2006 10 22.23917	00 02 21.94	+01 15 33.0	2006 SN_{171}	21.1	V	G96
2006 UD_{391}	2006 10 22.24860	00 02 21.62	+01 15 31.3	2006 SN_{171}	20.8	V	G96
2006 UD_{391}	2006 10 22.25792	00 02 21.22	+01 15 29.5	2006 SN_{171}	20.6	V	G96
2006 UD_{391}	2006 10 22.26735	00 02 20.86	+01 15 27.6	2006 SN_{171}	20.8	V	G96
2006 UE_{391}	*2006 10 22.37742	01 11 45.34	+04 03 39.4	2006 SO_{314}	20.9	V	G96
2006 UE_{391}	2006 10 22.38630	01 11 44.88	+04 03 37.2	2006 SO_{314}	21.0	V	G96
2006 UE_{391}	2006 10 22.39534	01 11 44.44	+04 03 34.4	2006 SO_{314}	21.6	V	G96
2006 UE_{391}	2006 10 22.40436	01 11 43.94	+04 03 31.7	2006 SO_{314}	21.3	V	G96
2006 UF_{391}	*2006 10 22.37688	01 10 41.48	+02 12 20.7	2006 SS_{341}	21.4	V	G96
2006 UF_{391}	2006 10 22.38575	01 10 41.01	+02 12 19.6	2006 SS_{341}	21.3	V	G96
2006 UF_{391}	2006 10 22.39479	01 10 40.54	+02 12 18.2	2006 SS_{341}	21.3	V	G96
2006 UF_{391}	2006 10 22.40382	01 10 40.08	+02 12 17.0	2006 SS_{341}	20.7	V	G96
2006 UG_{391}	*2006 10 31.07950	00 01 38.71	+04 46 45.6	2006 TT_{128}	21.2	V	G96
2006 UG_{391}	2006 10 31.08631	00 01 38.56	+04 46 42.9	2006 TT_{128}	21.4	V	G96
2006 UG_{391}	2006 10 31.09304	00 01 38.42	+04 46 40.5	2006 TT_{128}	21.2	V	G96
2006 UG_{391}	2006 10 31.09969	00 01 38.28	+04 46 38.8	2006 TT_{128}	22.0	V	G96
2006 UH_{391}	*2006 10 20.23574	23 45 48.02	−02 19 03.6	2006 UZ_{25}	21.6	V	G96
2006 UH_{391}	2006 10 20.24350	23 45 47.77	−02 19 05.4	2006 UZ_{25}	21.8	V	G96
2006 UH_{391}	2006 10 20.25124	23 45 47.59	−02 19 06.6	2006 UZ_{25}	21.4	V	G96
2006 UH_{391}	2006 10 20.25895	23 45 47.37	−02 19 07.3	2006 UZ_{25}	21.4	V	G96
2006 UJ_{391}	*2006 10 28.25715	01 45 11.98	+12 35 53.1	2006 UA_{30}	21.5	V	G96
2006 UJ_{391}	2006 10 28.26654	01 45 11.48	+12 35 50.6	2006 UA_{30}	21.2	V	G96
2006 UJ_{391}	2006 10 28.27588	01 45 10.90	+12 35 48.7	2006 UA_{30}	21.4	V	G96
2006 UJ_{391}	2006 10 28.28542	01 45 10.33	+12 35 46.6	2006 UA_{30}	21.3	V	G96
2006 UK_{391}	*2006 10 22.12873	23 10 30.68	−02 16 31.9	2006 UP_{146}	21.5	V	691
2006 UK_{391}	2006 10 22.14201	23 10 30.48	−02 16 34.5	2006 UP_{146}	21.8	V	691
2006 UK_{391}	2006 10 22.15530	23 10 30.31	−02 16 36.2	2006 UP_{146}	21.8	V	691
2006 UL_{391}	*2006 10 22.12873	23 10 33.50	−02 16 07.2	2006 UQ_{148}	20.9	V	691
2006 UL_{391}	2006 10 22.14201	23 10 33.33	−02 16 08.8	2006 UQ_{148}	21.3	V	691
2006 UL_{391}	2006 10 22.15530	23 10 33.15	−02 16 10.6	2006 UQ_{148}	21.0	V	691
2006 UM_{391}	*2006 10 22.26791	02 27 17.28	+09 40 04.7	2006 UV_{170}	21.7	V	691
2006 UM_{391}	2006 10 22.28527	02 27 16.29	+09 40 00.8	2006 UV_{170}	21.1	V	691
2006 UM_{391}	2006 10 22.30263	02 27 15.35	+09 39 58.6	2006 UV_{170}	21.3	V	691
2006 UN_{391}	*2006 10 29.14645	01 39 43.68	+16 43 16.5	2006 UX_{233}			691
2006 UN_{391}	2006 10 29.15637	01 39 43.23	+16 43 12.0	2006 UX_{233}			691
2006 UN_{391}	2006 10 29.16629	01 39 42.80	+16 43 08.2	2006 UX_{233}			691
2006 UO_{391}	*2006 10 20.24367	03 09 32.06	+21 16 55.6	2006 US_{312}			695
2006 UO_{391}	2006 10 20.36724	03 09 26.53	+21 16 31.2	2006 US_{312}			695
2006 UP_{391}	*2006 10 27.50454	03 03 21.41	+17 29 04.3	2006 UQ_{351}	22.5	r	568
2006 UP_{391}	2006 10 27.55211	03 03 18.52	+17 28 57.9	2006 UQ_{351}	22.7	r	568

2006 UQ_{391}	*2006 10 17.36419	04 04 50.77	+19 50 12.5	2006 WJ_{73}	21.1	V	G96
2006 UQ_{391}	2006 10 17.37100	04 04 50.66	+19 50 13.4	2006 WJ_{73}	21.6	V	G96
2006 UQ_{391}	2006 10 17.37787	04 04 50.52	+19 50 13.2	2006 WJ_{73}	21.4	V	G96
2006 UQ_{391}	2006 10 17.38464	04 04 50.48	+19 50 13.8	2006 WJ_{73}	21.1	V	G96
2006 VH_{185}	*2006 11 09.23106	00 02 41.40	−00 31 28.7	2006 SK_{170}	21.8		705
2006 VH_{185}	2006 11 09.23439	00 02 41.43	−00 31 29.3	2006 SK_{170}	21.2	V	705
2006 VJ_{185}	*2006 11 08.27449	00 00 28.42	−01 15 26.3	2006 SB_{195}	20.8		705
2006 VJ_{185}	2006 11 08.27781	00 00 28.45	−01 15 26.1	2006 SB_{195}	20.1	V	705
2006 VK_{185}	*2006 11 11.40990	04 00 56.44	+17 32 35.6	2006 UG_{141}	21.7	V	G96
2006 VK_{185}	2006 11 11.41439	04 00 56.23	+17 32 34.6	2006 UG_{141}	20.9	V	G96
2006 VK_{185}	2006 11 11.41888	04 00 55.90	+17 32 34.4	2006 UG_{141}	21.4	V	G96
2006 VK_{185}	2006 11 11.42340	04 00 55.62	+17 32 33.0	2006 UG_{141}	20.9	V	G96
2006 VL_{185}	*2006 11 15.33023	02 40 08.83	+10 58 08.2	2006 UM_{202}	20.6	V	G96
2006 VL_{185}	2006 11 15.33587	02 40 08.54	+10 58 07.2	2006 UM_{202}	20.7	V	G96
2006 VL_{185}	2006 11 15.34146	02 40 08.22	+10 58 06.1	2006 UM_{202}	20.6	V	G96
2006 VL_{185}	2006 11 15.34716	02 40 07.93	+10 58 05.4	2006 UM_{202}	21.5	V	G96
2006 VM_{185}	*2006 11 12.36619	03 06 51.80	+14 36 17.0	2006 UH_{346}	20.4	V	G96
2006 VM_{185}	2006 11 12.37064	03 06 51.62	+14 36 15.5	2006 UH_{346}	20.6	V	G96
2006 VM_{185}	2006 11 12.37512	03 06 51.33	+14 36 15.3	2006 UH_{346}	20.7	V	G96
2006 VM_{185}	2006 11 12.37958	03 06 51.08	+14 36 13.8	2006 UH_{346}	20.6	V	G96
2006 VN_{185}	*2006 11 14.16480	03 17 29.34	+19 18 14.0	2006 VD_{39}			691
2006 VN_{185}	2006 11 14.18233	03 17 28.24	+19 18 09.3	2006 VD_{39}			691
2006 VN_{185}	2006 11 14.19966	03 17 27.20	+19 18 04.5	2006 VD_{39}			691
2006 VO_{185}	*2006 11 01.26956	02 53 24.46	+20 00 29.4	2006 VC_{102}	21.0	V	G96
2006 VO_{185}	2006 11 01.27769	02 53 23.89	+20 00 27.0	2006 VC_{102}	20.9	V	G96
2006 VO_{185}	2006 11 01.28566	02 53 23.42	+20 00 24.5	2006 VC_{102}	20.3	V	G96
2006 VO_{185}	2006 11 01.29341	02 53 22.88	+20 00 22.3	2006 VC_{102}	20.2	V	G96
2006 VO_{185}	2006 11 17.31409	02 37 46.30	+18 31 45.0	2006 VC_{102}	20.9	V	G96
2006 VO_{185}	2006 11 17.32139	02 37 45.94	+18 31 42.4	2006 VC_{102}	20.9	V	G96
2006 VO_{185}	2006 11 17.32869	02 37 45.51	+18 31 40.1	2006 VC_{102}	20.9	V	G96
2006 VO_{185}	2006 11 17.33594	02 37 45.12	+18 31 37.6	2006 VC_{102}	20.9	V	G96
2006 VP_{185}	*2006 11 10.25715	00 19 36.04	+01 03 11.0	2006 VV_{159}	19.9		705
2006 VP_{185}	2006 11 10.26047	00 19 36.04	+01 03 10.9	2006 VV_{159}	19.3	V	705
2006 VQ_{185}	*2006 11 14.24147	00 09 16.20	+00 31 18.3	2006 VK_{160}	23.7		705
2006 VQ_{185}	2006 11 14.24479	00 09 16.17	+00 31 18.8	2006 VK_{160}	22.5	V	705
2006 WD_{235}	*2006 11 24.27897	01 21 57.89	+00 15 45.9	2006 TM_{111}	23.2		705
2006 WD_{235}	2006 11 24.27980	01 21 57.86	+00 15 46.1	2006 TM_{111}	22.0	V	705
2006 WE_{235}	*2006 11 18.21066	01 19 40.18	+04 45 30.6	2006 UQ_{155}	21.3	V	G96
2006 WE_{235}	2006 11 18.21674	01 19 40.11	+04 45 32.1	2006 UQ_{155}	21.6	V	G96
2006 WE_{235}	2006 11 18.22278	01 19 39.97	+04 45 33.1	2006 UQ_{155}	21.8	V	G96
2006 WE_{235}	2006 11 18.22897	01 19 39.90	+04 45 34.8	2006 UQ_{155}	21.9	V	G96
2006 WF_{235}	*2006 11 16.17654	03 52 13.78	+15 44 09.7	2006 UW_{315}	21.9	V	691
2006 WF_{235}	2006 11 16.18647	03 52 13.22	+15 44 05.4	2006 UW_{315}	21.6	V	691
2006 WF_{235}	2006 11 16.19639	03 52 12.62	+15 44 01.8	2006 UW_{315}	21.6	V	691
2006 WG_{235}	*2006 11 23.16467	04 11 58.68	+18 19 04.8	2006 UB_{319}	21.2	V	691
2006 WG_{235}	2006 11 23.18203	04 11 57.46	+18 19 00.9	2006 UB_{319}	21.8	V	691
2006 WG_{235}	2006 11 23.19937	04 11 56.27	+18 18 56.5	2006 UB_{319}	21.5	V	691
2006 WG_{235}	2006 11 27.16924	04 07 33.29	+18 03 08.9	2006 UB_{319}			691
2006 WG_{235}	2006 11 27.18656	04 07 32.06	+18 03 04.7	2006 UB_{319}			691
2006 WG_{235}	2006 11 27.20387	04 07 30.93	+18 03 01.0	2006 UB_{319}			691
2006 WH_{235}	*2006 11 16.17654	03 50 01.54	+15 34 21.2	2006 VB_{78}	21.7	V	691
2006 WH_{235}	2006 11 16.18647	03 50 00.92	+15 34 21.9	2006 VB_{78}	21.3	V	691
2006 WH_{235}	2006 11 16.19639	03 50 00.42	+15 34 22.2	2006 VB_{78}	21.3	V	691
2006 WJ_{235}	*2006 11 21.31551	03 18 23.40	+17 52 08.2	2006 WX_{44}	20.8	V	G96
2006 WJ_{235}	2006 11 21.33657	03 18 22.21	+17 52 05.4	2006 WX_{44}	20.9	V	G96
2006 WJ_{235}	2006 11 21.34721	03 18 21.56	+17 52 04.5	2006 WX_{44}	20.9	V	G96
2006 WK_{235}	*2006 11 23.24072	02 27 56.05	+08 14 25.4	2006 WR_{45}	21.3	V	G96
2006 WK_{235}	2006 11 23.24808	02 27 55.72	+08 14 23.1	2006 WR_{45}	20.5	V	G96
2006 WK_{235}	2006 11 23.25549	02 27 55.33	+08 14 21.6	2006 WR_{45}	20.9	V	G96
2006 WK_{235}	2006 11 23.26281	02 27 55.18	+08 14 21.1	2006 WR_{45}	21.1	V	G96
2006 WL_{235}	*2006 11 25.26895	04 37 29.65	+26 30 19.8	2006 WX_{145}			691
2006 WL_{235}	2006 11 25.28627	04 37 28.55	+26 30 18.4	2006 WX_{145}			691
2006 WL_{235}	2006 11 25.30358	04 37 27.40	+26 30 18.1	2006 WX_{145}			691
2006 XR_{82}	*2006 12 13.99759	05 16 51.54	+22 14 25.0	2006 XG_3	19.3	V	A13
2006 XR_{82}	2006 12 14.01616	05 16 50.24	+22 14 27.2	2006 XG_3	19.4	V	A13
2006 XR_{82}	2006 12 14.03490	05 16 48.88	+22 14 30.1	2006 XG_3	19.4	V	A13
2006 YG_{69}	*2006 12 25.22776	07 04 34.51	+25 56 43.6	2006 YL_{23}	20.2	V	691
2006 YG_{69}	2006 12 25.24508	07 04 33.44	+25 56 45.0	2006 YL_{23}	20.3	V	691
2006 YG_{69}	2006 12 25.26242	07 04 32.61	+25 56 47.5	2006 YL_{23}	20.6	V	691
2006 YH_{69}	*2006 12 27.34700	09 10 26.50	+15 29 23.9	2007 DB_{108}	20.6	V	G96
2006 YH_{69}	2006 12 27.35426	09 10 26.29	+15 29 25.2	2007 DB_{108}	21.1	V	G96
2006 YH_{69}	2006 12 27.36145	09 10 26.14	+15 29 27.0	2007 DB_{108}	21.2	V	G96
2006 YH_{69}	2006 12 27.36883	09 10 25.89	+15 29 28.3	2007 DB_{108}	21.2	V	G96
2007 BE_{119}	*2007 01 19.37021	08 39 32.46	+19 26 09.7	2007 BB_{94}	22.5	g	568
2007 BE_{119}	2007 01 19.40365	08 39 30.51	+19 26 15.4	2007 BB_{94}	22.3	g	568
2007 BE_{119}	2007 01 20.39090	08 38 34.39	+19 29 01.4	2007 BB_{94}	22.4	g	568
2007 BF_{119}	*2007 01 28.30823	08 54 05.77	+20 08 14.0	2007 BC_{53}	21.5	V	691
2007 BF_{119}	2007 01 28.32984	08 54 04.58	+20 08 19.1	2007 BC_{53}	21.5	V	691
2007 BF_{119}	2007 01 28.34777	08 54 03.59	+20 08 23.5	2007 BC_{53}	21.4	V	691
2007 CV_{85}	*2007 02 06.33206	09 05 10.42	+16 13 31.6	2007 CS_{34}	21.4	V	G96
2007 CV_{85}	2007 02 06.33924	09 05 10.03	+16 13 32.8	2007 CS_{34}	21.4	V	G96
2007 CV_{85}	2007 02 06.34655	09 05 09.60	+16 13 34.5	2007 CS_{34}	20.9	V	G96
2007 CV_{85}	2007 02 06.35382	09 05 09.06	+16 13 37.6	2007 CS_{34}	20.8	V	G96
2007 CW_{85}	*2007 02 13.24754	09 08 38.90	+17 15 40.1	2007 CS_{35}	20.6	V	G96
2007 CW_{85}	2007 02 13.25580	09 08 38.47	+17 15 40.5	2007 CS_{35}	20.6	V	G96
2007 CW_{85}	2007 02 13.26424	09 08 38.07	+17 15 41.0	2007 CS_{35}	20.9	V	G96
2007 CW_{85}	2007 02 13.27271	09 08 37.57	+17 15 41.5	2007 CS_{35}	21.2	V	G96
2007 DV_{131}	*2007 02 25.29147	10 56 57.49	+00 50 26.0	2007 DO_{61}			291
2007 DV_{131}	2007 02 25.30204	10 56 56.94	+00 50 29.9	2007 DO_{61}			291
2007 DV_{131}	2007 02 25.31068	10 56 56.46	+00 50 32.6	2007 DO_{61}			291
2007 DW_{131}	*2007 02 27.17739	10 25 45.32	+10 44 20.7	2007 DD_{91}			691
2007 DW_{131}	2007 02 27.19505	10 25 44.44	+10 44 26.8	2007 DD_{91}			691
2007 DW_{131}	2007 02 27.21271	10 25 43.50	+10 44 33.1	2007 DD_{91}			691
2007 DX_{131}	*2007 02 17.38712	11 36 47.91	−01 04 14.4	2007 EZ_{187}	21.0	V	G96
2007 DX_{131}	2007 02 17.39157	11 36 47.84	−01 04 13.1	2007 EZ_{187}	21.6	V	G96
2007 DX_{131}	2007 02 17.39603	11 36 47.59	−01 04 12.2	2007 EZ_{187}	21.3	V	G96
2007 DX_{131}	2007 02 17.40050	11 36 47.41	−01 04 11.7	2007 EZ_{187}	21.6	V	G96
2007 EF_{242}	*2007 03 09.24524	08 45 31.93	+17 30 35.4	2007 CS_{30}	22.1	V	G96
2007 EF_{242}	2007 03 09.25171	08 45 31.75	+17 30 35.1	2007 CS_{30}	22.7	V	G96
2007 EF_{242}	2007 03 09.25817	08 45 31.64	+17 30 35.8	2007 CS_{30}	21.6	V	G96
2007 EF_{242}	2007 03 09.26463	08 45 31.42	+17 30 35.2	2007 CS_{30}	21.4	V	G96
2007 EG_{242}	*2007 03 09.24524	08 48 17.24	+17 44 30.8	2007 CK_{36}	22.4	V	G96
2007 EG_{242}	2007 03 09.25171	08 48 16.99	+17 44 30.7	2007 CK_{36}	21.3	V	G96
2007 EG_{242}	2007 03 09.25817	08 48 16.81	+17 44 29.4	2007 CK_{36}	22.6	V	G96
2007 EG_{242}	2007 03 09.26463	08 48 16.59	+17 44 28.9	2007 CK_{36}	21.9	V	G96
2007 EH_{242}	*2007 03 09.29773	09 28 02.89	+14 19 37.0	2007 CQ_{43}	21.1	V	G96

2007 EH_{242}	2007 03 09.30359	09 28 02.74	+14 19 39.3	2007 CQ_{43}	21.2	V	G96
2007 EH_{242}	2007 03 09.30940	09 28 02.56	+14 19 41.3	2007 CQ_{43}	21.4	V	G96
2007 EH_{242}	2007 03 09.31521	09 28 02.35	+14 19 43.7	2007 CQ_{43}	21.4	V	G96
2007 EJ_{242}	*2007 03 10.38319	11 21 20.95	+04 44 35.3	2007 DT_{35}	20.1	V	G96
2007 EJ_{242}	2007 03 10.39268	11 21 20.44	+04 44 38.0	2007 DT_{35}	20.0	V	G96
2007 EJ_{242}	2007 03 10.40214	11 21 19.98	+04 44 40.2	2007 DT_{35}	20.2	V	G96
2007 EJ_{242}	2007 03 10.41160	11 21 19.51	+04 44 43.0	2007 DT_{35}	19.9	V	G96
2007 EK_{242}	*2007 03 09.34808	10 06 48.34	+10 37 06.6	2007 DH_{86}	21.2	V	G96
2007 EK_{242}	2007 03 09.35363	10 06 48.09	+10 37 06.8	2007 DH_{86}	21.8	V	G96
2007 EK_{242}	2007 03 09.35920	10 06 47.84	+10 37 07.3	2007 DH_{86}	21.3	V	G96
2007 EK_{242}	2007 03 09.36478	10 06 47.62	+10 37 08.3	2007 DH_{86}	21.0	V	G96
2007 EL_{242}	*2007 03 13.29654	12 14 38.83	+45 55 27.7	2007 DG_{104}	19.4	V	703
2007 EL_{242}	2007 03 13.30199	12 14 38.65	+45 55 31.7	2007 DG_{104}	19.3	V	703
2007 EL_{242}	2007 03 13.30758	12 14 38.32	+45 55 34.1	2007 DG_{104}	19.5	V	703
2007 EL_{242}	2007 03 13.31303	12 14 38.22	+45 55 35.9	2007 DG_{104}	19.5	V	703
2007 EM_{242}	*2007 03 14.32778	11 43 48.46	+09 42 57.1	2007 DE_{114}	21.5	V	G96
2007 EM_{242}	2007 03 14.33667	11 43 48.00	+09 43 00.4	2007 DE_{114}	21.2	V	G96
2007 EM_{242}	2007 03 14.34580	11 43 47.49	+09 43 03.9	2007 DE_{114}	20.8	V	G96
2007 EM_{242}	2007 03 14.35499	11 43 47.02	+09 43 07.7	2007 DE_{114}	21.6	V	G96
2007 EM_{242}	2007 03 15.30371	11 42 55.94	+09 49 26.7	2007 DE_{114}	21.8	V	G96
2007 EM_{242}	2007 03 15.31081	11 42 55.54	+09 49 30.2	2007 DE_{114}	21.3	V	G96
2007 EM_{242}	2007 03 15.31796	11 42 55.18	+09 49 32.3	2007 DE_{114}	22.1	V	G96
2007 EM_{242}	2007 03 15.32508	11 42 54.90	+09 49 34.6	2007 DE_{114}	20.4	V	G96
2007 EN_{242}	*2007 03 12.32692	11 57 23.07	+06 16 35.5	2007 EA_{30}	21.7	V	G96
2007 EN_{242}	2007 03 12.33620	11 57 22.57	+06 16 38.6	2007 EA_{30}	21.1	V	G96
2007 EN_{242}	2007 03 12.34557	11 57 22.14	+06 16 41.6	2007 EA_{30}	21.9	V	G96
2007 EN_{242}	2007 03 12.35487	11 57 21.67	+06 16 44.5	2007 EA_{30}	21.4	V	G96
2007 EO_{242}	*2007 03 13.25101	10 44 35.26	+05 56 15.3	2007 EQ_{49}	21.4	V	G96
2007 EO_{242}	2007 03 13.25913	10 44 34.90	+05 56 19.6	2007 EQ_{49}	21.2	V	G96
2007 EO_{242}	2007 03 13.26537	10 44 34.62	+05 56 21.9	2007 EQ_{49}	21.2	V	G96
2007 EO_{242}	2007 03 13.27162	10 44 34.40	+05 56 25.5	2007 EQ_{49}	20.9	V	G96
2007 EP_{242}	*2007 03 13.25101	10 44 27.52	+05 58 18.1	2007 EA_{50}	20.6	V	G96
2007 EP_{242}	2007 03 13.25913	10 44 27.13	+05 58 22.2	2007 EA_{50}	20.8	V	G96
2007 EP_{242}	2007 03 13.26537	10 44 26.84	+05 58 25.3	2007 EA_{50}	20.7	V	G96
2007 EP_{242}	2007 03 13.27162	10 44 26.59	+05 58 28.6	2007 EA_{50}	20.7	V	G96
2007 EQ_{242}	*2007 03 15.11781	10 02 57.08	+10 46 33.8	2007 EV_{89}	21.5	V	691
2007 EQ_{242}	2007 03 15.14207	10 02 56.18	+10 46 35.7	2007 EV_{89}	21.7	V	691
2007 EQ_{242}	2007 03 15.16639	10 02 55.17	+10 46 37.8	2007 EV_{89}	21.6	V	691
2007 ER_{242}	*2007 03 15.47763	14 16 46.09	−08 23 05.1	2007 EO_{117}	21.1	V	691
2007 ER_{242}	2007 03 15.49533	14 16 45.86	−08 23 03.1	2007 EO_{117}	21.7	V	691
2007 ER_{242}	2007 03 15.51302	14 16 45.62	−08 23 01.1	2007 EO_{117}	21.5	V	691
2007 ES_{242}	*2007 03 14.22720	12 44 43.52	+00 08 06.9	2007 EK_{203}	21.1	V	691
2007 ES_{242}	2007 03 14.24488	12 44 42.84	+00 08 11.8	2007 EK_{203}	21.3	V	691
2007 ES_{242}	2007 03 14.26257	12 44 42.06	+00 08 16.7	2007 EK_{203}	21.1	V	691
2007 FX_{62}	*2007 03 20.25000	10 38 26.98	+08 17 29.4	2007 DO_{118}	21.2	V	G96
2007 FX_{62}	2007 03 20.25634	10 38 26.77	+08 17 31.6	2007 DO_{118}	20.9	V	G96
2007 FX_{62}	2007 03 20.26265	10 38 26.48	+08 17 34.2	2007 DO_{118}	21.3	V	G96
2007 FX_{62}	2007 03 20.26902	10 38 26.30	+08 17 36.7	2007 DO_{118}	21.5	V	G96
2007 FY_{62}	*2007 03 20.25000	10 37 57.18	+08 17 36.3	2007 EJ_{6}	20.7	V	G96
2007 FY_{62}	2007 03 20.25634	10 37 56.96	+08 17 38.6	2007 EJ_{6}	20.0	V	G96
2007 FY_{62}	2007 03 20.26265	10 37 56.71	+08 17 41.2	2007 EJ_{6}	20.6	V	G96
2007 FY_{62}	2007 03 20.26902	10 37 56.49	+08 17 43.5	2007 EJ_{6}	20.5	V	G96
2007 FZ_{62}	*2007 03 16.30671	11 34 05.52	+03 06 12.0	2007 ER_{129}	21.2	V	G96
2007 FZ_{62}	2007 03 16.31318	11 34 05.23	+03 06 13.7	2007 ER_{129}	21.8	V	G96
2007 FZ_{62}	2007 03 16.31971	11 34 04.90	+03 06 16.0	2007 ER_{129}	21.2	V	G96
2007 FZ_{62}	2007 03 16.32618	11 34 04.58	+03 06 18.3	2007 ER_{129}	20.6	V	G96
2007 FA_{63}	*2007 03 16.26561	11 41 24.90	+11 02 21.2	2007 EF_{164}	19.7	V	G96
2007 FA_{63}	2007 03 16.27482	11 41 24.36	+11 02 23.2	2007 EF_{164}	19.9	V	G96
2007 FA_{63}	2007 03 16.28395	11 41 23.89	+11 02 25.2	2007 EF_{164}	19.5	V	G96
2007 FA_{63}	2007 03 16.29319	11 41 23.35	+11 02 27.7	2007 EF_{164}	19.7	V	G96
2007 FB_{63}	*2007 03 19.27875	11 05 20.86	+10 14 44.7	2007 EH_{183}	21.8	V	G96
2007 FB_{63}	2007 03 19.28476	11 05 20.58	+10 14 45.2	2007 EH_{183}	20.6	V	G96
2007 FB_{63}	2007 03 19.29075	11 05 20.29	+10 14 47.1	2007 EH_{183}	20.6	V	G96
2007 FB_{63}	2007 03 19.29675	11 05 20.00	+10 14 48.6	2007 EH_{183}	20.3	V	G96
2007 FC_{63}	*2007 03 19.28039	11 16 34.32	+10 04 25.7	2007 EF_{184}	21.3	V	G96
2007 FC_{63}	2007 03 19.28640	11 16 34.03	+10 04 27.3	2007 EF_{184}	20.9	V	G96
2007 FC_{63}	2007 03 19.29240	11 16 33.74	+10 04 28.7	2007 EF_{184}	21.2	V	G96
2007 FC_{63}	2007 03 19.29853	11 16 33.42	+10 04 30.0	2007 EF_{184}	21.3	V	G96
2007 FD_{63}	*2007 03 20.25115	10 46 31.18	+06 55 10.4	2007 ED_{225}	22.8	V	G96
2007 FD_{63}	2007 03 20.25750	10 46 30.86	+06 55 13.2	2007 ED_{225}	21.9	V	G96
2007 FD_{63}	2007 03 20.26380	10 46 30.61	+06 55 14.8	2007 ED_{225}	22.1	V	G96
2007 FD_{63}	2007 03 20.27014	10 46 30.39	+06 55 16.7	2007 ED_{225}	22.0	V	G96
2007 FE_{63}	*2007 03 26.26259	12 07 11.92	−01 19 06.2	2007 GX_{15}	21.8	V	G96
2007 FE_{63}	2007 03 26.26926	12 07 11.56	−01 19 04.3	2007 GX_{15}	22.1	V	G96
2007 FE_{63}	2007 03 26.27581	12 07 11.17	−01 19 02.9	2007 GX_{15}	21.1	V	G96
2007 FE_{63}	2007 03 26.28234	12 07 10.88	−01 19 00.7	2007 GX_{15}	21.7	V	G96
2007 FF_{63}	*2007 03 16.43506	13 48 56.71	−04 22 23.6	2007 HB_{38}	21.6	V	691
2007 FF_{63}	2007 03 16.45024	13 48 56.21	−04 22 18.2	2007 HB_{38}	21.3	V	691
2007 FF_{63}	2007 03 16.46542	13 48 55.79	−04 22 13.8	2007 HB_{38}	21.6	V	691
2007 GC_{82}	*2007 04 11.26146	11 21 14.18	+02 55 18.5	2007 EV_{50}	21.4	V	G96
2007 GC_{82}	2007 04 11.26866	11 21 13.93	+02 55 19.5	2007 EV_{50}	21.8	V	G96
2007 GC_{82}	2007 04 11.27601	11 21 13.71	+02 55 21.3	2007 EV_{50}	21.7	V	G96
2007 GC_{82}	2007 04 11.28325	11 21 13.50	+02 55 23.0	2007 EV_{50}	21.7	V	G96
2007 GD_{82}	*2007 04 15.19773	12 02 09.12	+09 05 36.3	2007 EO_{124}	21.4	V	691
2007 GD_{82}	2007 04 15.21111	12 02 08.70	+09 05 43.8	2007 EO_{124}	20.8	V	691
2007 GD_{82}	2007 04 15.22450	12 02 08.30	+09 05 51.2	2007 EO_{124}	20.8	V	691
2007 GE_{82}	*2007 04 14.26602	12 29 20.12	+03 46 34.7	2007 EW_{204}			291
2007 GE_{82}	2007 04 14.26983	12 29 19.96	+03 46 36.0	2007 EW_{204}			291
2007 GE_{82}	2007 04 14.27361	12 29 19.80	+03 46 36.7	2007 EW_{204}			291
2007 HZ_{114}	*2007 04 19.21390	14 07 23.09	−04 52 57.1	2007 HF_{4}	20.7	R	H07
2007 HZ_{114}	2007 04 19.22127	14 07 22.75	−04 52 59.0	2007 HF_{4}	20.2	R	H07
2007 HZ_{114}	2007 04 19.22863	14 07 22.21	−04 53 02.9	2007 HF_{4}	20.1	R	H07
2007 HA_{115}	*2007 04 24.37800	15 42 13.92	−12 03 13.7	2007 HX_{52}	20.7	V	691
2007 HA_{115}	2007 04 24.39569	15 42 13.14	−12 03 10.0	2007 HX_{52}	21.2	V	691
2007 HA_{115}	2007 04 24.41338	15 42 12.40	−12 03 06.6	2007 HX_{52}	20.8	V	691
2007 JM_{52}	*2007 05 10.31164	13 43 16.03	−10 59 39.2	2007 HH_{81}	21.3	V	G96
2007 JM_{52}	2007 05 10.31788	13 43 15.74	−10 59 37.7	2007 HH_{81}	20.9	V	G96
2007 JM_{52}	2007 05 10.32412	13 43 15.52	−10 59 37.1	2007 HH_{81}	21.2	V	G96
2007 JM_{52}	2007 05 10.33042	13 43 15.24	−10 59 35.4	2007 HH_{81}	21.6	V	G96
2007 KJ_{12}	*2007 05 16.30032	14 07 54.89	−07 13 12.7	2007 JN_{39}			291
2007 KJ_{12}	2007 05 16.30416	14 07 54.77	−07 13 11.4	2007 JN_{39}			291
2007 KJ_{12}	2007 05 16.30786	14 07 54.59	−07 13 11.0	2007 JN_{39}			291
2007 KK_{12}	*2007 05 19.28677	15 37 23.74	+03 15 06.6	2007 LN_{35}			291
2007 KK_{12}	2007 05 19.29068	15 37 23.54	+03 15 06.0	2007 LN_{35}			291
2007 KK_{12}	2007 05 19.29446	15 37 23.35	+03 15 05.6	2007 LN_{35}			291
2007 PD_{55}	*2007 08 06.90907	20 36 38.15	−16 58 21.4	2007 PK_{1}	20.3	V	941

2007 PD_{55}	2007 08 06.91666	20 36 37.77	−16 58 23.5	2007 PK_{1}	20.3	V	941
2007 PD_{55}	2007 08 06.91905	20 36 37.71	−16 58 24.0	2007 PK_{1}	20.1	V	941
2007 PD_{55}	2007 08 06.92414	20 36 37.46	−16 58 25.7	2007 PK_{1}	20.4	V	941
2007 RE_{372}	*2007 09 15.44284	00 49 09.83	+12 14 35.4	2007 RF_{204}			691
2007 RE_{372}	2007 09 15.46048	00 49 09.13	+12 14 31.4	2007 RF_{204}			691
2007 RE_{372}	2007 09 15.47812	00 49 08.41	+12 14 27.2	2007 RF_{204}			691
2007 RF_{372}	*2007 09 15.33170	00 26 23.92	+00 36 16.5	2007 RR_{229}	20.9	V	G96
2007 RF_{372}	2007 09 15.33722	00 26 23.67	+00 36 14.9	2007 RR_{229}	21.4	V	G96
2007 RF_{372}	2007 09 15.34288	00 26 23.46	+00 36 13.5	2007 RR_{229}	21.4	V	G96
2007 RF_{372}	2007 09 15.34863	00 26 23.17	+00 36 11.8	2007 RR_{229}	21.3	V	G96
2007 RG_{372}	*2007 09 11.32755	23 43 55.92	−02 04 51.8	2007 SX_{17}	20.2	V	G96
2007 RG_{372}	2007 09 11.33433	23 43 55.63	−02 04 53.4	2007 SX_{17}	19.9	V	G96
2007 RG_{372}	2007 09 11.34113	23 43 55.27	−02 04 54.9	2007 SX_{17}	20.1	V	G96
2007 RG_{372}	2007 09 11.34788	23 43 54.94	−02 04 56.1	2007 SX_{17}	20.1	V	G96
2007 RH_{372}	*2007 09 12.43201	01 10 01.02	+06 56 48.7	2007 TS_{83}	21.3	V	G96
2007 RH_{372}	2007 09 12.43932	01 10 00.80	+06 56 47.3	2007 TS_{83}	21.2	V	G96
2007 RH_{372}	2007 09 12.44673	01 10 00.62	+06 56 44.6	2007 TS_{83}	21.8	V	G96
2007 RH_{372}	2007 09 12.45417	01 10 00.44	+06 56 42.7	2007 TS_{83}	21.6	V	G96
2007 RJ_{372}	*2007 09 14.18205	23 02 54.17	−03 36 30.3	2007 TR_{188}	21.0	V	691
2007 RJ_{372}	2007 09 14.19963	23 02 53.48	−03 36 37.9	2007 TR_{188}	21.2	V	691
2007 RJ_{372}	2007 09 14.21721	23 02 52.70	−03 36 45.3	2007 TR_{188}	21.5	V	691
2007 RK_{372}	*2007 09 05.41170	01 40 47.92	−08 12 54.1	2007 TN_{421}	20.5	V	703
2007 RK_{372}	2007 09 05.41980	01 40 47.71	−08 13 00.5	2007 TN_{421}	20.9	V	703
2007 RK_{372}	2007 09 05.42796	01 40 47.74	−08 13 03.7	2007 TN_{421}	19.9	V	703
2007 RK_{372}	2007 09 05.43638	01 40 47.64	−08 13 09.1	2007 TN_{421}	19.7	V	703
2007 SL_{29}	*2007 09 19.42048	00 39 15.54	+09 41 17.4	2007 RQ_{57}	21.5	V	691
2007 SL_{29}	2007 09 19.43571	00 39 14.76	+09 41 13.0	2007 RQ_{57}	21.4	V	691
2007 SL_{29}	2007 09 19.45095	00 39 14.01	+09 41 09.6	2007 RQ_{57}	21.4	V	691
2007 SM_{29}	*2007 09 24.42086	01 00 49.07	+09 30 42.4	2007 SP_{13}	20.4	V	691
2007 SM_{29}	2007 09 24.43850	01 00 48.22	+09 30 38.2	2007 SP_{13}	21.1	V	691
2007 SM_{29}	2007 09 24.45614	01 00 47.38	+09 30 34.6	2007 SP_{13}	20.8	V	691
2007 TM_{498}	*2007 10 15.14248	00 45 47.74	+08 05 47.1	2007 RA_{49}	20.5	V	691
2007 TM_{498}	2007 10 15.16012	00 45 46.83	+08 05 46.7	2007 RA_{49}	20.4	V	691
2007 TM_{498}	2007 10 15.17776	00 45 45.88	+08 05 44.9	2007 RA_{49}	20.5	V	691
2007 TM_{498}	2007 10 16.32311	00 44 46.93	+08 04 07.4	2007 RA_{49}	20.6	V	G96
2007 TM_{498}	2007 10 16.32890	00 44 46.64	+08 04 07.1	2007 RA_{49}	20.6	V	G96
2007 TM_{498}	2007 10 16.33473	00 44 46.32	+08 04 06.5	2007 RA_{49}	20.6	V	G96
2007 TM_{498}	2007 10 16.34072	00 44 45.99	+08 04 05.8	2007 RA_{49}	21.1	V	G96
2007 TN_{498}	*2007 10 10.29818	00 41 03.73	+06 25 44.1	2007 RU_{49}	21.2	V	G96
2007 TN_{498}	2007 10 10.30527	00 41 03.37	+06 25 42.7	2007 RU_{49}	21.2	V	G96
2007 TN_{498}	2007 10 10.31234	00 41 03.01	+06 25 41.7	2007 RU_{49}	21.0	V	G96
2007 TN_{498}	2007 10 10.31940	00 41 02.65	+06 25 41.0	2007 RU_{49}	20.9	V	G96
2007 TO_{498}	*2007 10 09.15389	22 39 33.31	−09 44 24.5	2007 RV_{101}	20.9	V	691
2007 TO_{498}	2007 10 09.16968	22 39 33.01	−09 44 28.1	2007 RV_{101}	21.4	V	691
2007 TO_{498}	2007 10 09.18255	22 39 32.71	−09 44 30.9	2007 RV_{101}	21.3	V	691
2007 TP_{498}	*2007 10 14.22194	00 08 19.24	+03 47 24.1	2007 RE_{109}	21.0	V	G96
2007 TP_{498}	2007 10 14.22887	00 08 19.03	+03 47 22.1	2007 RE_{109}	21.2	V	G96
2007 TP_{498}	2007 10 14.23577	00 08 18.70	+03 47 20.7	2007 RE_{109}	21.3	V	G96
2007 TP_{498}	2007 10 14.24267	00 08 18.38	+03 47 18.8	2007 RE_{109}	21.0	V	G96
2007 TQ_{498}	*2007 10 15.22322	23 52 02.24	−03 56 22.7	2007 RM_{110}	21.1	V	G96
2007 TQ_{498}	2007 10 15.23181	23 52 01.95	−03 56 25.8	2007 RM_{110}	21.1	V	G96
2007 TQ_{498}	2007 10 15.24027	23 52 01.70	−03 56 29.3	2007 RM_{110}	21.9	V	G96
2007 TQ_{498}	2007 10 15.24877	23 52 01.41	−03 56 32.6	2007 RM_{110}	21.2	V	G96
2007 TR_{498}	*2007 10 15.32540	01 01 39.37	−00 29 03.6	2007 RE_{175}			291
2007 TR_{498}	2007 10 15.32971	01 01 39.18	−00 29 05.5	2007 RE_{175}			291
2007 TR_{498}	2007 10 15.33360	01 01 38.97	−00 29 06.7	2007 RE_{175}			291
2007 TS_{498}	*2007 10 04.25478	23 35 53.66	−02 38 28.9	2007 RM_{299}	20.5	V	G96
2007 TS_{498}	2007 10 04.26203	23 35 53.37	−02 38 31.1	2007 RM_{299}	20.2	V	G96
2007 TS_{498}	2007 10 04.26935	23 35 53.01	−02 38 33.5	2007 RM_{299}	20.8	V	G96
2007 TS_{498}	2007 10 04.27666	23 35 52.69	−02 38 35.8	2007 RM_{299}	21.1	V	G96
2007 TS_{498}	2007 10 12.29879	23 30 35.10	−03 17 48.2	2007 RM_{299}	21.0	V	G96
2007 TS_{498}	2007 10 12.30488	23 30 34.92	−03 17 50.3	2007 RM_{299}	21.1	V	G96
2007 TS_{498}	2007 10 12.31095	23 30 34.70	−03 17 52.0	2007 RM_{299}	21.2	V	G96
2007 TS_{498}	2007 10 12.31700	23 30 34.45	−03 17 53.3	2007 RM_{299}	21.8	V	G96
2007 TT_{498}	*2007 10 04.25854	23 35 34.72	−01 51 24.9	2007 RN_{299}	20.4	V	G96
2007 TT_{498}	2007 10 04.26590	23 35 34.36	−01 51 26.4	2007 RN_{299}	21.0	V	G96
2007 TT_{498}	2007 10 04.27318	23 35 34.04	−01 51 27.7	2007 RN_{299}	21.3	V	G96
2007 TT_{498}	2007 10 04.28045	23 35 33.68	−01 51 28.9	2007 RN_{299}	21.1	V	G96
2007 TT_{498}	2007 10 12.29824	23 29 42.50	−02 13 40.7	2007 RN_{299}	21.2	V	G96
2007 TT_{498}	2007 10 12.30434	23 29 42.36	−02 13 40.9	2007 RN_{299}	20.8	V	G96
2007 TT_{498}	2007 10 12.31034	23 29 42.10	−02 13 42.4	2007 RN_{299}	21.1	V	G96
2007 TT_{498}	2007 10 12.31640	23 29 41.89	−02 13 42.7	2007 RN_{299}	21.3	V	G96
2007 TU_{498}	*2007 10 13.24667	00 56 15.39	+01 43 43.1	2007 RX_{307}	21.6	V	G96
2007 TU_{498}	2007 10 13.25248	00 56 15.10	+01 43 41.0	2007 RX_{307}	21.7	V	G96
2007 TU_{498}	2007 10 13.25829	00 56 14.78	+01 43 40.0	2007 RX_{307}	22.2	V	G96
2007 TU_{498}	2007 10 13.26410	00 56 14.46	+01 43 38.1	2007 RX_{307}	21.7	V	G96
2007 TV_{498}	*2007 10 07.14736	23 25 09.76	−03 28 49.7	2007 RJ_{308}	20.6	V	G96
2007 TV_{498}	2007 10 07.15315	23 25 09.55	−03 28 50.7	2007 RJ_{308}	20.7	V	G96
2007 TV_{498}	2007 10 07.15868	23 25 09.33	−03 28 51.3	2007 RJ_{308}	20.6	V	G96
2007 TV_{498}	2007 10 07.16433	23 25 09.15	−03 28 52.5	2007 RJ_{308}	20.7	V	G96
2007 TV_{498}	2007 10 30.20667	23 16 23.91	−03 57 19.9	2007 RJ_{308}	21.7	V	G96
2007 TV_{498}	2007 10 30.21582	23 16 23.84	−03 57 19.6	2007 RJ_{308}	21.9	V	G96
2007 TV_{498}	2007 10 30.22499	23 16 23.73	−03 57 19.8	2007 RJ_{308}	21.2	V	G96
2007 TV_{498}	2007 10 30.23417	23 16 23.66	−03 57 19.4	2007 RJ_{308}	20.8	V	G96
2007 TW_{498}	*2007 10 10.26568	23 16 49.51	−01 23 30.3	2007 RS_{309}	21.3	V	G96
2007 TW_{498}	2007 10 10.27299	23 16 49.26	−01 23 31.9	2007 RS_{309}	21.6	V	G96
2007 TW_{498}	2007 10 10.28038	23 16 49.00	−01 23 33.8	2007 RS_{309}	22.1	V	G96
2007 TW_{498}	2007 10 10.28772	23 16 48.72	−01 23 34.8	2007 RS_{309}	21.7	V	G96
2007 TX_{498}	*2007 10 05.20707	00 35 30.66	−08 20 43.4	2007 TT_{173}			291
2007 TX_{498}	2007 10 05.21103	00 35 30.38	−08 20 45.1	2007 TT_{173}			291
2007 TX_{498}	2007 10 05.21476	00 35 30.20	−08 20 45.6	2007 TT_{173}			291
2007 TY_{498}	*2007 10 11.23624	22 55 15.67	−06 11 57.8	2007 TB_{189}	21.7	V	G96
2007 TY_{498}	2007 10 11.24334	22 55 15.60	−06 11 59.1	2007 TB_{189}	22.1	V	G96
2007 TY_{498}	2007 10 11.25049	22 55 15.45	−06 12 00.5	2007 TB_{189}	21.9	V	G96
2007 TY_{498}	2007 10 11.25770	22 55 15.38	−06 12 00.6	2007 TB_{189}	21.7	V	G96
2007 TZ_{498}	*2007 10 14.24312	01 30 56.06	+07 05 36.0	2007 TY_{253}			291
2007 TZ_{498}	2007 10 14.25019	01 30 55.65	+07 05 33.9	2007 TY_{253}			291
2007 TZ_{498}	2007 10 14.25724	01 30 55.27	+07 05 32.9	2007 TY_{253}			291
2007 TZ_{498}	2007 10 14.27118	01 30 54.50	+07 05 29.5	2007 TY_{253}	20.5	V	G96
2007 TZ_{498}	2007 10 14.27301	01 30 54.43	+07 05 29.6	2007 TY_{253}	20.6	V	G96
2007 TZ_{498}	2007 10 14.27486	01 30 54.32	+07 05 28.7	2007 TY_{253}	20.1	V	G96
2007 TZ_{498}	2007 10 14.27671	01 30 54.21	+07 05 28.5	2007 TY_{253}	20.4	V	G96
2007 TA_{499}	*2007 10 14.25244	01 25 03.64	+05 58 03.9	2007 TY_{292}	21.8	V	G96
2007 TA_{499}	2007 10 14.25738	01 25 03.46	+05 58 01.7	2007 TY_{292}	21.6	V	G96
2007 TA_{499}	2007 10 14.26221	01 25 03.21	+05 57 59.8	2007 TY_{292}	21.9	V	G96
2007 TA_{499}	2007 10 14.26718	01 25 03.00	+05 57 57.2	2007 TY_{292}	21.7	V	G96

2007 TB_{499}	*2007 10 12.29553	23 55 18.04	−00 46 16.5	2007 TR_{298}	22.0	V	G96
2007 TB_{499}	2007 10 12.30148	23 55 17.79	−00 46 17.5	2007 TR_{298}	21.8	V	G96
2007 TB_{499}	2007 10 12.30763	23 55 17.54	−00 46 18.7	2007 TR_{298}	21.3	V	G96
2007 TB_{499}	2007 10 12.31368	23 55 17.18	−00 46 20.4	2007 TR_{298}	21.7	V	G96
2007 TH_{499}	*2007 10 10.44225	03 54 11.19	+14 18 52.9	(566743)	20.7	V	691
2007 TH_{499}	2007 10 10.45733	03 54 10.80	+14 18 54.1	(566743)	20.7	V	691
2007 TH_{499}	2007 10 10.46995	03 54 10.47	+14 18 55.3	(566743)	20.6	V	691
2007 TH_{499}	2007 12 31.11368	02 55 51.09	+16 53 35.8	(566743)	20.9	V	G96
2007 TH_{499}	2007 12 31.11932	02 55 51.02	+16 53 37.0	(566743)	21.1	V	G96
2007 TH_{499}	2007 12 31.12487	02 55 50.91	+16 53 38.2	(566743)	20.6	V	G96
2007 TH_{499}	2007 12 31.13043	02 55 50.84	+16 53 39.4	(566743)	20.7	V	G96
2007 TH_{499}	2009 02 02.41866	10 19 20.67	+36 25 46.5	(566743)	20.6	V	G96
2007 TH_{499}	2009 02 02.42526	10 19 20.28	+36 25 49.5	(566743)	20.6	V	G96
2007 TH_{499}	2009 02 02.43163	10 19 19.99	+36 25 51.8	(566743)	20.7	V	G96
2007 TH_{499}	2009 02 02.43825	10 19 19.63	+36 25 54.9	(566743)	20.7	V	G96
2007 TH_{499}	2013 11 27.57989	06 00 58.031	+32 23 08.09	(566743)	20.3	r	F51
2007 TH_{499}	2013 11 27.60998	06 00 56.538	+32 23 19.04	(566743)	20.2	i	F51
2007 UZ_{162}	*2007 10 16.31985	00 19 30.14	+07 59 54.1	2007 RD_{308}	20.6	V	G96
2007 UZ_{162}	2007 10 16.32565	00 19 29.92	+07 59 51.7	2007 RD_{308}	20.8	V	G96
2007 UZ_{162}	2007 10 16.33149	00 19 29.67	+07 59 48.8	2007 RD_{308}	20.8	V	G96
2007 UZ_{162}	2007 10 16.33732	00 19 29.42	+07 59 46.4	2007 RD_{308}	20.3	V	G96
2007 UA_{163}	*2007 10 19.35022	01 37 12.18	+05 55 43.9	2007 RZ_{299}	20.5	V	G96
2007 UA_{163}	2007 10 19.35671	01 37 11.78	+05 55 42.8	2007 RZ_{299}	20.2	V	G96
2007 UA_{163}	2007 10 19.36326	01 37 11.38	+05 55 41.8	2007 RZ_{299}	20.4	V	G96
2007 UA_{163}	2007 10 19.36976	01 37 10.92	+05 55 40.4	2007 RZ_{299}	20.5	V	G96
2007 UB_{163}	*2007 10 19.19682	23 02 43.51	−05 24 47.6	2007 RR_{318}	20.4	V	G96
2007 UB_{163}	2007 10 19.20334	23 02 43.40	−05 24 47.9	2007 RR_{318}	20.5	V	G96
2007 UB_{163}	2007 10 19.20987	23 02 43.26	−05 24 48.1	2007 RR_{318}	20.5	V	G96
2007 UB_{163}	2007 10 19.21646	23 02 43.11	−05 24 48.5	2007 RR_{318}	20.8	V	G96
2007 UC_{163}	*2007 10 16.42916	03 33 32.14	+18 49 36.2	2007 TL_{296}	21.7	V	691
2007 UC_{163}	2007 10 16.44682	03 33 31.58	+18 49 33.4	2007 TL_{296}	21.7	V	691
2007 UC_{163}	2007 10 16.46448	03 33 30.99	+18 49 30.9	2007 TL_{296}	21.2	V	691
2007 UD_{163}	*2007 10 18.28030	01 19 07.46	+09 15 23.5	2007 TE_{387}	21.1	V	G96
2007 UD_{163}	2007 10 18.28581	01 19 07.17	+09 15 22.9	2007 TE_{387}	21.3	V	G96
2007 UD_{163}	2007 10 18.29130	01 19 06.88	+09 15 21.8	2007 TE_{387}	21.7	V	G96
2007 UD_{163}	2007 10 18.29681	01 19 06.60	+09 15 21.2	2007 TE_{387}	21.5	V	G96
2007 UE_{163}	*2007 10 18.27597	01 19 03.14	+05 56 18.2	2007 TE_{390}	20.8	V	G96
2007 UE_{163}	2007 10 18.28140	01 19 02.85	+05 56 16.9	2007 TE_{390}	21.1	V	G96
2007 UE_{163}	2007 10 18.28693	01 19 02.56	+05 56 14.9	2007 TE_{390}	21.2	V	G96
2007 UE_{163}	2007 10 18.29241	01 19 02.24	+05 56 13.5	2007 TE_{390}	20.4	V	G96
2007 UF_{163}	*2007 10 18.27597	01 19 13.04	+05 57 17.1	2007 TF_{390}	20.9	V	G96
2007 UF_{163}	2007 10 18.28140	01 19 12.79	+05 57 15.4	2007 TF_{390}	21.0	V	G96
2007 UF_{163}	2007 10 18.28693	01 19 12.46	+05 57 14.2	2007 TF_{390}	21.0	V	G96
2007 UF_{163}	2007 10 18.29241	01 19 12.21	+05 57 12.3	2007 TF_{390}	20.8	V	G96
2007 UG_{163}	*2007 10 20.35722	03 32 48.91	+08 54 15.9	2007 TY_{407}	20.5	V	G96
2007 UG_{163}	2007 10 20.36223	03 32 48.73	+08 54 14.4	2007 TY_{407}	20.5	V	G96
2007 UG_{163}	2007 10 20.36720	03 32 48.51	+08 54 13.0	2007 TY_{407}	20.8	V	G96
2007 UG_{163}	2007 10 20.37221	03 32 48.33	+08 54 12.0	2007 TY_{407}	20.2	V	G96
2007 UH_{163}	*2007 10 19.97368	02 29 34.35	+04 59 48.4	2007 UA_9			621
2007 UH_{163}	2007 10 19.98643	02 29 33.62	+04 59 46.2	2007 UA_9			621
2007 UH_{163}	2007 10 19.99919	02 29 32.93	+04 59 45.8	2007 UA_9	20	R	621
2007 UH_{163}	2007 10 20.30175	02 29 18.34	+04 59 21.4	2007 UA_9	21.4	V	G96
2007 UH_{163}	2007 10 20.30727	02 29 18.09	+04 59 21.1	2007 UA_9	21.5	V	G96
2007 UH_{163}	2007 10 20.31279	02 29 17.77	+04 59 20.7	2007 UA_9	21.6	V	G96
2007 UH_{163}	2007 10 20.31831	02 29 17.52	+04 59 20.2	2007 UA_9	21.4	V	G96
2007 UJ_{163}	*2007 10 18.38367	03 29 17.28	+18 17 19.7	2007 UP_{54}	21.5	V	691
2007 UJ_{163}	2007 10 18.40481	03 29 16.44	+18 17 23.1	2007 UP_{54}	21.5	V	691
2007 UJ_{163}	2007 10 18.42250	03 29 15.70	+18 17 25.2	2007 UP_{54}	21.3	V	691
2007 UK_{163}	*2007 10 21.31287	02 28 37.30	+16 14 24.6	2007 VJ_{132}			691
2007 UK_{163}	2007 10 21.33047	02 28 36.32	+16 14 21.2	2007 VJ_{132}			691
2007 UK_{163}	2007 10 21.34808	02 28 35.37	+16 14 17.9	2007 VJ_{132}			691
2007 UL_{163}	*2007 10 20.37859	04 18 04.06	+17 29 29.7	2007 VQ_{142}	20.2	V	G96
2007 UL_{163}	2007 10 20.38521	04 18 03.96	+17 29 29.0	2007 VQ_{142}	20.2	V	G96
2007 UL_{163}	2007 10 20.39185	04 18 03.78	+17 29 27.9	2007 VQ_{142}	20.6	V	G96
2007 UL_{163}	2007 10 20.39840	04 18 03.63	+17 29 26.8	2007 VQ_{142}	20.3	V	G96
2007 VM_{377}	*2007 11 07.24124	01 58 21.07	+10 46 53.1	2007 TF_{53}	21.5	V	G96
2007 VM_{377}	2007 11 07.24684	01 58 20.78	+10 46 50.7	2007 TF_{53}	21.4	V	G96
2007 VN_{377}	*2007 11 09.24010	02 14 36.45	+07 48 32.5	2007 TS_{125}	20.4	V	G96
2007 VN_{377}	2007 11 09.24610	02 14 36.20	+07 48 31.8	2007 TS_{125}	20.5	V	G96
2007 VN_{377}	2007 11 09.25219	02 14 35.91	+07 48 30.3	2007 TS_{125}	20.4	V	G96
2007 VN_{377}	2007 11 09.25823	02 14 35.62	+07 48 29.2	2007 TS_{125}	20.2	V	G96
2007 VO_{377}	*2007 11 07.20077	00 46 28.05	+11 41 52.2	2007 TM_{265}	21.8	V	G96
2007 VO_{377}	2007 11 07.20641	00 46 27.87	+11 41 50.6	2007 TM_{265}	22.1	V	G96
2007 VO_{377}	2007 11 07.21200	00 46 27.69	+11 41 48.9	2007 TM_{265}	21.8	V	G96
2007 VO_{377}	2007 11 07.21781	00 46 27.55	+11 41 48.2	2007 TM_{265}	21.4	V	G96
2007 VP_{377}	*2007 11 07.29003	00 25 10.01	+05 08 19.6	2007 TV_{291}			291
2007 VP_{377}	2007 11 07.29402	00 25 09.90	+05 08 18.4	2007 TV_{291}			291
2007 VP_{377}	2007 11 07.29773	00 25 09.82	+05 08 17.9	2007 TV_{291}			291
2007 VQ_{377}	*2007 11 01.20030	00 38 46.17	+06 04 54.6	2007 TK_{321}	21.7	V	G96
2007 VQ_{377}	2007 11 01.20472	00 38 46.03	+06 04 53.6	2007 TK_{321}	21.3	V	G96
2007 VQ_{377}	2007 11 01.20920	00 38 45.92	+06 04 52.1	2007 TK_{321}	21.6	V	G96
2007 VQ_{377}	2007 11 01.21361	00 38 45.78	+06 04 51.1	2007 TK_{321}	20.9	V	G96
2007 VR_{377}	*2007 11 02.25102	02 23 29.07	+06 47 32.5	2007 TF_{342}	19.6	V	G96
2007 VR_{377}	2007 11 02.26141	02 23 28.50	+06 47 29.5	2007 TF_{342}	20.4	V	G96
2007 VR_{377}	2007 11 02.27188	02 23 27.99	+06 47 26.4	2007 TF_{342}	21.0	V	G96
2007 VR_{377}	2007 11 02.28234	02 23 27.42	+06 47 23.7	2007 TF_{342}	20.7	V	G96
2007 VS_{377}	*2007 11 02.36939	03 36 47.26	+10 39 39.7	2007 TN_{435}	20.7	V	G96
2007 VS_{377}	2007 11 02.37765	03 36 46.83	+10 39 37.8	2007 TN_{435}	20.6	V	G96
2007 VS_{377}	2007 11 02.38697	03 36 46.33	+10 39 34.9	2007 TN_{435}	20.5	V	G96
2007 VS_{377}	2007 11 02.39531	03 36 45.97	+10 39 33.3	2007 TN_{435}	20.6	V	G96
2007 VS_{377}	2007 11 12.27819	03 28 02.10	+10 00 01.0	2007 TN_{435}	20.4	V	G96
2007 VS_{377}	2007 11 12.28493	03 28 01.74	+09 59 59.4	2007 TN_{435}	20.2	V	G96
2007 VS_{377}	2007 11 12.29172	03 28 01.34	+09 59 58.3	2007 TN_{435}	20.6	V	G96
2007 VS_{377}	2007 11 12.29851	03 28 00.91	+09 59 56.9	2007 TN_{435}	20.6	V	G96
2007 VT_{377}	*2007 11 05.21326	01 40 43.81	+07 09 33.0	2007 TX_{448}	20.0		704
2007 VT_{377}	2007 11 05.22528	01 40 43.25	+07 09 29.5	2007 TX_{448}	20.0		704
2007 VT_{377}	2007 11 05.23731	01 40 42.83	+07 09 28.0	2007 TX_{448}	19.9		704
2007 VT_{377}	2007 11 07.22736	01 39 20.41	+07 02 17.4	2007 TX_{448}	20.4	V	G96
2007 VT_{377}	2007 11 07.23294	01 39 20.16	+07 02 16.0	2007 TX_{448}	20.5	V	G96
2007 VT_{377}	2007 11 07.23845	01 39 19.90	+07 02 14.8	2007 TX_{448}	20.0	V	G96
2007 VT_{377}	2007 11 07.24412	01 39 19.65	+07 02 13.9	2007 TX_{448}	20.3	V	G96
2007 VU_{377}	*2007 11 12.23588	03 23 32.24	+11 21 40.1	2007 TU_{452}	20.3	V	G96
2007 VU_{377}	2007 11 12.24454	03 23 31.70	+11 21 38.8	2007 TU_{452}	20.3	V	G96
2007 VU_{377}	2007 11 12.25315	03 23 31.16	+11 21 38.1	2007 TU_{452}	20.5	V	G96
2007 VU_{377}	2007 11 12.26185	03 23 30.58	+11 21 37.9	2007 TU_{452}	20.5	V	G96
2007 VU_{377}	2007 11 20.24321	03 15 10.18	+11 11 49.7	2007 TU_{452}	21.0	V	G96

2007 VU_{377}	2007 11 20.24840	03 15 09.82	+11 11 49.0	2007 TU_{452}	21.1	V	G96
2007 VU_{377}	2007 11 20.25360	03 15 09.57	+11 11 49.2	2007 TU_{452}	20.8	V	G96
2007 VU_{377}	2007 11 20.25897	03 15 09.18	+11 11 48.6	2007 TU_{452}	21.4	V	G96
2007 VV_{377}	*2007 11 03.34682	02 26 43.83	+15 27 01.5	2007 UE_{80}	20.7	V	G96
2007 VV_{377}	2007 11 03.34909	02 26 43.72	+15 27 01.0	2007 UE_{80}	20.5	V	G96
2007 VV_{377}	2007 11 03.35138	02 26 43.58	+15 27 00.4	2007 UE_{80}	20.7	V	G96
2007 VV_{377}	2007 11 03.35368	02 26 43.47	+15 26 59.6	2007 UE_{80}	20.4	V	G96
2007 VW_{377}	*2007 11 04.09141	01 11 40.59	+07 19 46.0	2007 UU_{95}			691
2007 VW_{377}	2007 11 04.10982	01 11 39.82	+07 19 43.6	2007 UU_{95}			691
2007 VW_{377}	2007 11 04.12824	01 11 39.02	+07 19 41.0	2007 UU_{95}			691
2007 VX_{377}	*2007 11 08.25894	04 20 36.29	+18 08 11.3	2007 UV_{132}			691
2007 VX_{377}	2007 11 08.27661	04 20 35.41	+18 08 06.5	2007 UV_{132}			691
2007 VX_{377}	2007 11 08.29428	04 20 34.55	+18 08 03.0	2007 UV_{132}			691
2007 VX_{377}	2007 11 20.31822	04 09 52.27	+17 18 12.6	2007 UV_{132}	19.8	V	G96
2007 VX_{377}	2007 11 20.32374	04 09 51.94	+17 18 11.0	2007 UV_{132}	20.1	V	G96
2007 VX_{377}	2007 11 20.32934	04 09 51.58	+17 18 10.1	2007 UV_{132}	20.2	V	G96
2007 VX_{377}	2007 11 20.33507	04 09 51.22	+17 18 08.6	2007 UV_{132}	19.7	V	G96
2007 VY_{377}	*2007 11 05.30659	04 18 03.74	+24 57 24.9	2007 VF_{59}	21.6	V	691
2007 VY_{377}	2007 11 05.32428	04 18 02.87	+24 57 22.1	2007 VF_{59}	21.5	V	691
2007 VY_{377}	2007 11 05.33960	04 18 02.11	+24 57 20.2	2007 VF_{59}	21.7	V	691
2007 VZ_{377}	*2007 11 07.59661	03 01 59.91	+19 26 23.4	2007 VU_{91}	20.8	R	300
2007 VZ_{377}	2007 11 07.59870	03 01 59.84	+19 26 23.9	2007 VU_{91}	21.0	R	300
2007 VZ_{377}	2007 11 07.60078	03 01 59.69	+19 26 23.6	2007 VU_{91}	21.2	R	300
2007 VA_{378}	*2007 11 12.34628	03 06 21.50	+18 30 57.7	2007 VQ_{125}	20.7	R	H07
2007 VA_{378}	2007 11 12.35005	03 06 21.29	+18 30 57.4	2007 VQ_{125}	20.8	R	H07
2007 VA_{378}	2007 11 12.35374	03 06 21.06	+18 30 57.1	2007 VQ_{125}	20.8	R	H07
2007 VB_{378}	*2007 11 07.27666	02 07 38.89	+10 14 35.8	2007 VH_{129}	20.7	V	G96
2007 VB_{378}	2007 11 07.28282	02 07 38.56	+10 14 33.7	2007 VH_{129}	21.1	V	G96
2007 VB_{378}	2007 11 07.28910	02 07 38.17	+10 14 31.7	2007 VH_{129}	21.1	V	G96
2007 VB_{378}	2007 11 07.29534	02 07 37.81	+10 14 29.6	2007 VH_{129}	21.0	V	G96
2007 VC_{378}	*2007 11 07.27992	02 33 49.68	+11 46 28.3	2007 VQ_{130}	22.0	V	G96
2007 VC_{378}	2007 11 07.28617	02 33 49.32	+11 46 27.3	2007 VQ_{130}	21.6	V	G96
2007 VC_{378}	2007 11 07.29238	02 33 48.99	+11 46 24.9	2007 VQ_{130}	22.2	V	G96
2007 VC_{378}	2007 11 07.29860	02 33 48.63	+11 46 23.4	2007 VQ_{130}	21.5	V	G96
2007 VD_{378}	*2007 11 07.25376	02 12 43.41	+14 17 38.1	2007 VV_{132}	21.6	V	G96
2007 VD_{378}	2007 11 07.25931	02 12 43.09	+14 17 37.7	2007 VV_{132}	22.1	V	G96
2007 VD_{378}	2007 11 07.26486	02 12 42.84	+14 17 37.2	2007 VV_{132}	21.5	V	G96
2007 VD_{378}	2007 11 07.27049	02 12 42.58	+14 17 36.6	2007 VV_{132}	22.6	V	G96
2007 VE_{378}	*2007 11 11.28405	02 50 54.67	+16 31 45.9	2007 VL_{194}	21.2	V	G96
2007 VE_{378}	2007 11 11.28699	02 50 54.49	+16 31 44.6	2007 VL_{194}	21.7	V	G96
2007 VE_{378}	2007 11 11.28988	02 50 54.34	+16 31 44.4	2007 VL_{194}	21.6	V	G96
2007 VE_{378}	2007 11 11.29285	02 50 54.16	+16 31 43.1	2007 VL_{194}	21.3	V	G96
2007 VF_{378}	*2007 11 12.27546	03 07 55.77	+10 45 08.2	2007 VD_{203}	22.0	V	G96
2007 VF_{378}	2007 11 12.28218	03 07 55.34	+10 45 06.3	2007 VD_{203}	21.1	V	G96
2007 VF_{378}	2007 11 12.28898	03 07 54.91	+10 45 04.8	2007 VD_{203}	21.8	V	G96
2007 VF_{378}	2007 11 12.29578	03 07 54.44	+10 45 03.2	2007 VD_{203}	21.3	V	G96
2007 VG_{378}	*2007 11 12.23295	02 30 57.52	+14 16 25.0	2007 VP_{205}	21.5	V	G96
2007 VG_{378}	2007 11 12.24160	02 30 57.02	+14 16 24.0	2007 VP_{205}	20.7	V	G96
2007 VG_{378}	2007 11 12.25028	02 30 56.52	+14 16 22.4	2007 VP_{205}	21.0	V	G96
2007 VG_{378}	2007 11 12.25896	02 30 56.01	+14 16 21.1	2007 VP_{205}	20.9	V	G96
2007 VG_{378}	2007 11 12.37196	02 30 49.53	+14 16 01.8	2007 VP_{205}	21.0	V	G96
2007 VG_{378}	2007 11 12.37382	02 30 49.42	+14 16 01.1	2007 VP_{205}	21.5	V	G96
2007 VG_{378}	2007 11 12.37564	02 30 49.35	+14 16 00.9	2007 VP_{205}	21.2	V	G96
2007 VG_{378}	2007 11 12.37750	02 30 49.24	+14 16 00.6	2007 VP_{205}	21.5	V	G96
2007 VH_{378}	*2007 11 13.20303	01 48 47.59	+07 32 11.8	2007 VV_{222}	22.7	V	G96
2007 VH_{378}	2007 11 13.21015	01 48 47.30	+07 32 09.9	2007 VV_{222}	21.8	V	G96
2007 VH_{378}	2007 11 13.21735	01 48 47.05	+07 32 09.5	2007 VV_{222}	22.1	V	G96
2007 VH_{378}	2007 11 13.22443	01 48 46.76	+07 32 07.7	2007 VV_{222}	21.0	V	G96
2007 VJ_{378}	*2007 11 13.30420	04 05 06.25	+09 06 40.6	2007 VK_{223}	20.6	V	G96
2007 VJ_{378}	2007 11 13.31352	04 05 05.67	+09 06 38.8	2007 VK_{223}	20.2	V	G96
2007 VJ_{378}	2007 11 13.32276	04 05 05.13	+09 06 37.1	2007 VK_{223}	20.2	V	G96
2007 VJ_{378}	2007 11 13.33204	04 05 04.56	+09 06 35.8	2007 VK_{223}	20.5	V	G96
2007 VK_{378}	*2007 11 14.27882	04 22 50.95	+20 50 34.3	2007 VA_{233}	20.9	V	691
2007 VK_{378}	2007 11 14.29646	04 22 49.96	+20 50 33.4	2007 VA_{233}	21.6	V	691
2007 VK_{378}	2007 11 14.31412	04 22 49.00	+20 50 32.5	2007 VA_{233}	21.5	V	691
2007 VL_{378}	*2007 11 08.33500	03 12 09.07	+34 03 20.1	2007 WG_{46}	19.4	V	703
2007 VL_{378}	2007 11 08.34185	03 12 08.64	+34 03 17.2	2007 WG_{46}	19.8	V	703
2007 VL_{378}	2007 11 08.34852	03 12 08.24	+34 03 13.7	2007 WG_{46}	20.0	V	703
2007 VL_{378}	2007 11 08.35519	03 12 07.92	+34 03 11.7	2007 WG_{46}	19.3	V	703
2007 VM_{378}	*2007 11 08.33615	03 25 31.08	+32 10 11.1	2007 WM_{46}	19.3	V	703
2007 VM_{378}	2007 11 08.34296	03 25 30.68	+32 10 09.7	2007 WM_{46}	19.4	V	703
2007 VM_{378}	2007 11 08.34962	03 25 30.10	+32 10 07.8	2007 WM_{46}	18.8	V	703
2007 VM_{378}	2007 11 08.35627	03 25 29.71	+32 10 06.5	2007 WM_{46}	19.3	V	703
2007 VN_{378}	*2007 11 14.38846	07 36 16.95	+29 28 32.8	2007 YM_{40}	21.9	V	G96
2007 VN_{378}	2007 11 14.39352	07 36 16.99	+29 28 34.6	2007 YM_{40}	22.1	V	G96
2007 VN_{378}	2007 11 14.39852	07 36 17.13	+29 28 36.0	2007 YM_{40}	22.3	V	G96
2007 VN_{378}	2007 11 14.40355	07 36 17.28	+29 28 37.4	2007 YM_{40}	21.9	V	G96
2007 WK_{74}	*2007 11 18.23561	03 03 10.11	+13 03 33.3	2007 TC_{231}	20.4	V	G96
2007 WK_{74}	2007 11 18.24220	03 03 09.68	+13 03 32.5	2007 TC_{231}	20.7	V	G96
2007 WK_{74}	2007 11 18.24883	03 03 09.25	+13 03 32.6	2007 TC_{231}	20.5	V	G96
2007 WK_{74}	2007 11 18.25543	03 03 08.89	+13 03 32.1	2007 TC_{231}	20.7	V	G96
2007 WL_{74}	*2007 11 19.35073	05 07 12.13	+19 41 38.0	2007 VY_{291}			691
2007 WL_{74}	2007 11 19.36839	05 07 11.27	+19 41 37.0	2007 VY_{291}			691
2007 WL_{74}	2007 11 19.38604	05 07 10.41	+19 41 35.8	2007 VY_{291}			691
2007 WM_{74}	*2007 11 17.34002	03 56 43.36	+26 25 20.4	2007 YR_4	20.1	V	G96
2007 WM_{74}	2007 11 17.34677	03 56 42.86	+26 25 19.6	2007 YR_4	20.4	V	G96
2007 WM_{74}	2007 11 17.35351	03 56 42.32	+26 25 19.0	2007 YR_4	20.5	V	G96
2007 WM_{74}	2007 11 17.36029	03 56 41.82	+26 25 18.3	2007 YR_4	20.3	V	G96
2007 XP_{71}	*2007 12 05.11844	02 58 56.53	+14 17 21.8	2007 VH_{318}	21.0	V	691
2007 XP_{71}	2007 12 05.13430	02 58 55.84	+14 17 22.2	2007 VH_{318}	20.9	V	691
2007 XP_{71}	2007 12 05.15015	02 58 55.14	+14 17 22.5	2007 VH_{318}	20.9	V	691
2007 XQ_{71}	*2007 12 04.22839	03 10 23.08	+29 14 44.4	2007 VR_{337}	20.5	V	G96
2007 XQ_{71}	2007 12 04.23388	03 10 22.80	+29 14 42.9	2007 VR_{337}	20.5	V	G96
2007 XQ_{71}	2007 12 04.23942	03 10 22.58	+29 14 42.1	2007 VR_{337}	20.8	V	G96
2007 XQ_{71}	2007 12 04.24492	03 10 22.22	+29 14 40.8	2007 VR_{337}	21.0	V	G96
2007 YK_{96}	*2007 12 17.09202	07 57 46.13	+17 33 34.1	2007 YT_2			621
2007 YK_{96}	2007 12 17.10222	07 57 45.73	+17 33 35.4	2007 YT_2			621
2007 YK_{96}	2007 12 17.11242	07 57 45.35	+17 33 38.6	2007 YT_2	20	R	621
2007 YL_{96}	*2007 12 20.42178	07 12 21.18	+19 13 33.0	2007 YY_{21}	21.5	V	691
2007 YL_{96}	2007 12 20.43944	07 12 20.31	+19 13 32.9	2007 YY_{21}	20.7	V	691
2007 YL_{96}	2007 12 20.45709	07 12 19.43	+19 13 30.7	2007 YY_{21}	21.2	V	691
2007 YM_{96}	*2007 12 19.31281	08 12 03.67	+28 16 23.9	2007 YB_{26}	21.7	V	G96
2007 YM_{96}	2007 12 19.31790	08 12 03.60	+28 16 25.3	2007 YB_{26}	22.1	V	G96
2007 YM_{96}	2007 12 19.32297	08 12 03.45	+28 16 25.8	2007 YB_{26}	22.0	V	G96
2007 YM_{96}	2007 12 19.32803	08 12 03.27	+28 16 28.4	2007 YB_{26}	21.1	V	G96
2008 AO_{155}	*2008 01 13.43310	09 36 37.76	+18 08 39.0	2008 AG_{42}			691

2008 AO_{155}	2008 01 13.45420	09 36 36.97	+18 08 49.7	2008 AG_{42}			691
2008 AO_{155}	2008 01 13.47184	09 36 36.32	+18 08 59.3	2008 AG_{42}			691
2008 AP_{155}	*2008 01 15.22861	08 21 52.26	+20 04 45.6	2008 AY_{53}	21.4	V	691
2008 AP_{155}	2008 01 15.24673	08 21 51.29	+20 04 50.6	2008 AY_{53}	20.9	V	691
2008 AP_{155}	2008 01 15.26483	08 21 50.28	+20 04 54.4	2008 AY_{53}	21.4	V	691
2008 AQ_{155}	*2008 01 15.23378	08 05 31.21	+17 50 03.0	2008 AO_{55}	20.8	V	691
2008 AQ_{155}	2008 01 15.25213	08 05 30.01	+17 50 08.0	2008 AO_{55}	20.4	V	691
2008 AQ_{155}	2008 01 15.27025	08 05 28.81	+17 50 12.7	2008 AO_{55}	21.2	V	691
2008 AR_{155}	*2008 01 15.23648	08 17 20.23	+18 51 16.8	2008 AU_{56}	21.4	V	691
2008 AR_{155}	2008 01 15.25459	08 17 19.34	+18 51 20.2	2008 AU_{56}	21.6	V	691
2008 AR_{155}	2008 01 15.27271	08 17 18.33	+18 51 23.4	2008 AU_{56}	21.1	V	691
2008 BV_{61}	*2008 01 16.22368	07 46 44.68	+32 44 43.9	2007 YY_{25}	21.1	V	G96
2008 BV_{61}	2008 01 16.22866	07 46 44.29	+32 44 43.8	2007 YY_{25}	20.9	V	G96
2008 BV_{61}	2008 01 16.23366	07 46 43.93	+32 44 44.7	2007 YY_{25}	21.2	V	G96
2008 BV_{61}	2008 01 16.23871	07 46 43.53	+32 44 45.8	2007 YY_{25}	20.8	V	G96
2008 BW_{61}	*2008 01 31.35120	08 37 06.88	+21 29 05.0	2008 AR_{94}	20.7	V	G96
2008 BW_{61}	2008 01 31.35682	08 37 06.52	+21 29 06.5	2008 AR_{94}	20.6	V	G96
2008 BW_{61}	2008 01 31.36240	08 37 06.16	+21 29 07.4	2008 AR_{94}	20.4	V	G96
2008 BW_{61}	2008 01 31.36804	08 37 05.84	+21 29 08.8	2008 AR_{94}	20.7	V	G96
2008 BX_{61}	*2008 01 30.22297	08 38 52.62	+24 51 47.1	2008 BP_4	20.3	V	703
2008 BX_{61}	2008 01 30.22957	08 38 52.22	+24 51 50.1	2008 BP_4	20.5	V	703
2008 BX_{61}	2008 01 30.23608	08 38 51.68	+24 51 51.3	2008 BP_4	20.3	V	703
2008 BX_{61}	2008 01 30.24262	08 38 51.36	+24 51 52.4	2008 BP_4	20.5	V	703
2008 BY_{61}	*2008 01 30.24622	09 23 23.34	+28 04 06.3	2008 BB_{50}			291
2008 BY_{61}	2008 01 30.25279	09 23 22.95	+28 04 07.1	2008 BB_{50}			291
2008 BY_{61}	2008 01 30.25958	09 23 22.55	+28 04 08.6	2008 BB_{50}			291
2008 BY_{61}	2008 02 07.28581	09 15 54.14	+28 23 00.7	2008 BB_{50}	21.4	V	G96
2008 BY_{61}	2008 02 07.29277	09 15 53.71	+28 23 02.1	2008 BB_{50}	21.4	V	G96
2008 BY_{61}	2008 02 07.29978	09 15 53.31	+28 23 02.6	2008 BB_{50}	21.6	V	G96
2008 BY_{61}	2008 02 07.30678	09 15 52.88	+28 23 03.1	2008 BB_{50}	21.7	V	G96
2008 CP_{246}	*2008 02 13.26638	10 23 18.89	+06 10 57.0	2008 CP_{144}	21.5	V	691
2008 CP_{246}	2008 02 13.28403	10 23 17.93	+06 11 01.4	2008 CP_{144}	21.7	V	691
2008 CP_{246}	2008 02 13.30169	10 23 16.96	+06 11 06.1	2008 CP_{144}	21.5	V	691
2008 CR_{246}	*2008 02 10.19626	08 02 10.14	+16 54 22.6	2008 AQ_{60}	21.7	V	G96
2008 CR_{246}	2008 02 10.20536	08 02 09.78	+16 54 25.5	2008 AQ_{60}	21.4	V	G96
2008 CR_{246}	2008 02 10.21453	08 02 09.38	+16 54 27.4	2008 AQ_{60}	22.0	V	G96
2008 CR_{246}	2008 02 10.22360	08 02 08.88	+16 54 29.6	2008 AQ_{60}	22.8	V	G96
2008 CS_{246}	*2008 02 02.21155	07 54 50.40	+17 22 15.8	2008 AV_{62}	21.6	V	G96
2008 CS_{246}	2008 02 02.22222	07 54 49.82	+17 22 18.1	2008 AV_{62}	21.3	V	G96
2008 CS_{246}	2008 02 02.22801	07 54 49.53	+17 22 19.9	2008 AV_{62}	22.1	V	G96
2008 CS_{246}	2008 02 02.23360	07 54 49.24	+17 22 21.1	2008 AV_{62}	21.5	V	G96
2008 CT_{246}	*2008 02 02.27656	08 38 17.68	+11 36 26.4	2008 AW_{135}	19.8		704
2008 CT_{246}	2008 02 02.28893	08 38 16.99	+11 36 24.5	2008 AW_{135}	20.1		704
2008 CT_{246}	2008 02 02.30132	08 38 16.27	+11 36 25.4	2008 AW_{135}	20.7		704
2008 CT_{246}	2008 02 02.32611	08 38 14.81	+11 36 23.3	2008 AW_{135}	20.2		704
2008 CT_{246}	2008 02 08.16584	08 32 49.54	+11 31 32.5	2008 AW_{135}			291
2008 CT_{246}	2008 02 08.16993	08 32 49.31	+11 31 32.3	2008 AW_{135}			291
2008 CT_{246}	2008 02 08.17377	08 32 49.10	+11 31 32.1	2008 AW_{135}			291
2008 CT_{246}	2008 02 08.31522	08 32 41.24	+11 31 25.6	2008 AW_{135}	20.1	V	G96
2008 CT_{246}	2008 02 08.31986	08 32 40.99	+11 31 25.5	2008 AW_{135}	20.2	V	G96
2008 CT_{246}	2008 02 08.32464	08 32 40.74	+11 31 25.5	2008 AW_{135}	20.0	V	G96
2008 CT_{246}	2008 02 08.32932	08 32 40.48	+11 31 25.1	2008 AW_{135}	20.7	V	G96
2008 CU_{246}	*2008 02 03.14440	11 26 18.61	+24 13 20.6	2008 CS	21.1	V	941
2008 CU_{246}	2008 02 03.15065	11 26 18.42	+24 13 22.0	2008 CS	21.0	V	941
2008 CU_{246}	2008 02 03.15299	11 26 18.36	+24 13 22.2	2008 CS	21.3	V	941
2008 CU_{246}	2008 02 03.15612	11 26 18.25	+24 13 23.3	2008 CS	21.2	V	941
2008 CV_{246}	*2008 02 08.34464	11 16 45.65	+08 57 26.5	2008 CT_{24}	20.9	V	691
2008 CV_{246}	2008 02 08.36224	11 16 45.03	+08 57 31.0	2008 CT_{24}	21.1	V	691
2008 CV_{246}	2008 02 08.37737	11 16 44.55	+08 57 35.6	2008 CT_{24}	21.3	V	691
2008 CV_{246}	2008 02 12.34166	11 14 24.17	+09 16 30.3	2008 CT_{24}	21.1	V	691
2008 CV_{246}	2008 02 12.35929	11 14 23.47	+09 16 35.3	2008 CT_{24}	21.1	V	691
2008 CV_{246}	2008 02 12.37692	11 14 22.79	+09 16 40.5	2008 CT_{24}	21.1	V	691
2008 CW_{246}	*2008 02 09.40382	11 54 50.78	+08 17 40.3	2008 CQ_{45}	21.5	V	691
2008 CW_{246}	2008 02 09.42143	11 54 50.34	+08 17 46.2	2008 CQ_{45}	21.6	V	691
2008 CW_{246}	2008 02 09.43906	11 54 49.78	+08 17 52.6	2008 CQ_{45}	21.7	V	691
2008 CX_{246}	*2008 02 09.45591	11 46 00.39	−02 52 30.1	2008 CO_{46}	20.7	V	691
2008 CX_{246}	2008 02 09.47115	11 45 59.87	−02 52 31.0	2008 CO_{46}	21.1	V	691
2008 CX_{246}	2008 02 09.48639	11 45 59.41	−02 52 31.8	2008 CO_{46}	21.1	V	691
2008 CY_{246}	*2008 02 13.22553	09 56 36.78	+15 55 55.4	2008 CD_{139}	20.5	V	G96
2008 CY_{246}	2008 02 13.23035	09 56 36.52	+15 55 56.9	2008 CD_{139}	21.0	V	G96
2008 CY_{246}	2008 02 13.23510	09 56 36.24	+15 55 58.4	2008 CD_{139}	20.6	V	G96
2008 CY_{246}	2008 02 13.23988	09 56 35.91	+15 55 59.9	2008 CD_{139}	20.8	V	G96
2008 CZ_{246}	*2008 02 13.95977	10 34 23.02	+12 56 46.3	2008 CN_{177}	19.6	R	069
2008 CZ_{246}	2008 02 13.99201	10 34 21.36	+12 56 54.9	2008 CN_{177}	19.3	R	069
2008 CA_{247}	*2008 02 14.31192	10 25 33.81	+25 27 02.3	2008 CZ_{186}	20.6	V	703
2008 CA_{247}	2008 02 14.31854	10 25 33.49	+25 27 06.6	2008 CZ_{186}	20.5	V	703
2008 CA_{247}	2008 02 14.32520	10 25 33.09	+25 27 08.3	2008 CZ_{186}	20.0	V	703
2008 CA_{247}	2008 02 14.33184	10 25 32.88	+25 27 12.4	2008 CZ_{186}	20.1	V	703
2008 CB_{247}	*2008 02 11.36574	11 49 54.87	+11 39 56.2	2008 EX_{95}	22.1	V	G96
2008 CB_{247}	2008 02 11.37072	11 49 54.76	+11 39 59.4	2008 EX_{95}	21.5	V	G96
2008 CB_{247}	2008 02 11.37572	11 49 54.62	+11 40 00.3	2008 EX_{95}	21.7	V	G96
2008 CB_{247}	2008 02 11.38081	11 49 54.48	+11 40 02.7	2008 EX_{95}	21.7	V	G96
2008 DS_{98}	*2008 02 26.24255	10 36 59.83	+08 23 37.4	2008 BS_{21}	20.2	V	G96
2008 DS_{98}	2008 02 26.24973	10 36 59.36	+08 23 39.1	2008 BS_{21}	21.0	V	G96
2008 DS_{98}	2008 02 26.25686	10 36 59.00	+08 23 41.5	2008 BS_{21}	20.6	V	G96
2008 DS_{98}	2008 02 26.26406	10 36 58.57	+08 23 43.8	2008 BS_{21}	20.6	V	G96
2008 DT_{98}	*2008 02 16.162562	08 25 13.41	+18 32 22.2	2008 BT_{27}	21.2	V	H55
2008 DT_{98}	2008 02 16.168890	08 25 13.04	+18 32 24.2	2008 BT_{27}	20.7	V	H55
2008 DT_{98}	2008 02 16.175030	08 25 12.66	+18 32 26.2	2008 BT_{27}	21.1	V	H55
2008 DT_{98}	2008 02 16.181063	08 25 12.42	+18 32 26.7	2008 BT_{27}	21.0	V	H55
2008 DU_{98}	*2008 02 26.33197	10 40 37.02	+11 22 54.3	2008 CV_{15}	20.6	V	G96
2008 DU_{98}	2008 02 26.33772	10 40 36.69	+11 22 56.0	2008 CV_{15}	20.8	V	G96
2008 DU_{98}	2008 02 26.34336	10 40 36.40	+11 22 57.5	2008 CV_{15}	21.3	V	G96
2008 DU_{98}	2008 02 26.34907	10 40 36.15	+11 22 58.8	2008 CV_{15}	20.5	V	G96
2008 DV_{98}	*2008 02 26.24200	10 39 19.22	+08 10 46.4	2008 CB_{48}	20.7	V	G96
2008 DV_{98}	2008 02 26.24919	10 39 18.90	+08 10 48.0	2008 CB_{48}	20.2	V	G96
2008 DV_{98}	2008 02 26.25632	10 39 18.54	+08 10 50.3	2008 CB_{48}	20.5	V	G96
2008 DV_{98}	2008 02 26.26344	10 39 18.14	+08 10 52.3	2008 CB_{48}	20.8	V	G96
2008 DW_{98}	*2008 02 28.28889	10 41 41.85	+17 04 39.4	2008 CK_{67}	19.9	V	G96
2008 DW_{98}	2008 02 28.29935	10 41 41.24	+17 04 42.1	2008 CK_{67}	19.9	V	G96
2008 DW_{98}	2008 02 28.30984	10 41 40.63	+17 04 44.7	2008 CK_{67}	19.9	V	G96
2008 DW_{98}	2008 02 28.32015	10 41 40.02	+17 04 47.1	2008 CK_{67}	19.8	V	G96
2008 DX_{98}	*2008 02 28.22319	10 31 16.06	+15 28 26.7	2008 CF_{83}	21.2	V	G96
2008 DX_{98}	2008 02 28.23036	10 31 15.67	+15 28 30.1	2008 CF_{83}	21.0	V	G96
2008 DX_{98}	2008 02 28.23750	10 31 15.24	+15 28 33.3	2008 CF_{83}	21.3	V	G96
2008 DX_{98}	2008 02 28.24470	10 31 14.84	+15 28 37.5	2008 CF_{83}	21.2	V	G96

2008 DY_{98}	*2008 02 24.38350	09 46 53.36	+14 10 14.9	2008 CX_{205}	21.3	V	G96
2008 DY_{98}	2008 02 24.39015	09 46 53.11	+14 10 15.9	2008 CX_{205}	21.5	V	G96
2008 DY_{98}	2008 02 24.39681	09 46 52.75	+14 10 18.6	2008 CX_{205}	21.1	V	G96
2008 DY_{98}	2008 02 24.40361	09 46 52.42	+14 10 20.6	2008 CX_{205}	20.9	V	G96
2008 DY_{98}	2008 03 08.20976	09 37 59.98	+15 04 08.1	2008 CX_{205}	22.1	V	G96
2008 DY_{98}	2008 03 08.21492	09 37 59.80	+15 04 09.2	2008 CX_{205}	21.9	V	G96
2008 DY_{98}	2008 03 08.22013	09 37 59.62	+15 04 11.4	2008 CX_{205}	22.2	V	G96
2008 DY_{98}	2008 03 08.22524	09 37 59.44	+15 04 11.7	2008 CX_{205}	22.2	V	G96
2008 DZ_{98}	*2008 02 24.38024	10 03 52.84	+11 08 14.7	2008 CG_{206}	20.9	V	G96
2008 DZ_{98}	2008 02 24.38687	10 03 52.52	+11 08 16.2	2008 CG_{206}	20.6	V	G96
2008 DZ_{98}	2008 02 24.39355	10 03 52.20	+11 08 18.3	2008 CG_{206}	20.7	V	G96
2008 DZ_{98}	2008 02 24.40028	10 03 51.84	+11 08 20.0	2008 CG_{206}	20.6	V	G96
2008 EQ_{195}	*2008 03 10.33632	13 01 54.39	−08 25 53.4	2008 FO_{78}	21.7	V	691
2008 EQ_{195}	2008 03 10.35402	13 01 53.71	−08 25 49.8	2008 FO_{78}	21.8	V	691
2008 EQ_{195}	2008 03 10.37173	13 01 53.04	−08 25 46.0	2008 FO_{78}	21.4	V	691
2008 ER_{195}	*2008 03 11.87633	10 31 46.09	+12 34 15.8	2008 CX_{15}	20.5	V	104
2008 ER_{195}	2008 03 11.88530	10 31 45.77	+12 34 16.7	2008 CX_{15}	20.1	V	104
2008 ER_{195}	2008 03 11.89427	10 31 45.41	+12 34 17.6	2008 CX_{15}	20.6	V	104
2008 ER_{195}	2008 03 11.90162	10 31 45.00	+12 34 19.1	2008 CX_{15}	20.4	V	104
2008 ES_{195}	*2008 03 13.26425	10 10 37.63	+06 30 54.1	2008 CC_{208}	20.7	V	G96
2008 ES_{195}	2008 03 13.27104	10 10 37.34	+06 30 56.6	2008 CC_{208}	20.8	V	G96
2008 ES_{195}	2008 03 13.27765	10 10 37.05	+06 30 58.8	2008 CC_{208}	20.8	V	G96
2008 ES_{195}	2008 03 13.28429	10 10 36.76	+06 31 00.8	2008 CC_{208}	20.7	V	G96
2008 ET_{195}	*2008 03 06.25495	11 18 16.30	+09 28 26.9	2008 DK_{62}	21.2	V	G96
2008 ET_{195}	2008 03 06.26301	11 18 15.87	+09 28 30.0	2008 DK_{62}	21.0	V	G96
2008 ET_{195}	2008 03 06.26957	11 18 15.55	+09 28 31.6	2008 DK_{62}	20.9	V	G96
2008 ET_{195}	2008 03 06.27602	11 18 15.22	+09 28 33.6	2008 DK_{62}	21.1	V	G96
2008 EU_{195}	*2008 03 14.37781	11 04 24.63	+10 06 38.4	2008 DX_{63}	21.4	V	G96
2008 EU_{195}	2008 03 14.38572	11 04 24.27	+10 06 41.0	2008 DX_{63}	21.1	V	G96
2008 EU_{195}	2008 03 14.40053	11 04 23.70	+10 06 44.5	2008 DX_{63}	21.3	V	G96
2008 EU_{195}	2008 03 14.40777	11 04 23.26	+10 06 46.9	2008 DX_{63}	22.0	V	G96
2008 EV_{195}	*2008 03 06.31675	11 01 20.42	+07 52 40.0	2008 DH_{76}	21.2	V	G96
2008 EV_{195}	2008 03 06.32077	11 01 20.20	+07 52 41.7	2008 DH_{76}	22.1	V	G96
2008 EV_{195}	2008 03 06.32473	11 01 20.06	+07 52 42.2	2008 DH_{76}	21.5	V	G96
2008 EV_{195}	2008 03 06.32877	11 01 19.77	+07 52 42.7	2008 DH_{76}	22.6	V	G96
2008 EW_{195}	*2008 03 12.26410	10 17 35.66	+11 25 53.7	2008 DA_{87}	21.2	V	G96
2008 EW_{195}	2008 03 12.26985	10 17 35.37	+11 25 55.0	2008 DA_{87}	21.0	V	G96
2008 EW_{195}	2008 03 12.27567	10 17 35.08	+11 25 56.2	2008 DA_{87}	20.4	V	G96
2008 EW_{195}	2008 03 12.28150	10 17 34.80	+11 25 57.9	2008 DA_{87}	21.2	V	G96
2008 EW_{195}	2008 04 03.19095	10 04 55.02	+12 15 48.3	2008 DA_{87}	22.1	V	G96
2008 EW_{195}	2008 04 03.19701	10 04 54.91	+12 15 48.8	2008 DA_{87}	21.6	V	G96
2008 EW_{195}	2008 04 03.20299	10 04 54.76	+12 15 49.8	2008 DA_{87}	21.3	V	G96
2008 EW_{195}	2008 04 03.20902	10 04 54.66	+12 15 50.1	2008 DA_{87}	21.6	V	G96
2008 EX_{195}	*2008 03 08.25438	11 36 24.19	+10 07 55.5	2008 EC_{34}	20.4	V	G96
2008 EX_{195}	2008 03 08.25940	11 36 23.90	+10 07 56.2	2008 EC_{34}	20.2	V	G96
2008 EX_{195}	2008 03 08.26441	11 36 23.65	+10 07 56.7	2008 EC_{34}	20.4	V	G96
2008 EX_{195}	2008 03 08.26942	11 36 23.36	+10 07 58.1	2008 EC_{34}	19.6	V	G96
2008 EY_{195}	*2008 03 08.30524	11 42 59.25	+13 08 31.2	2008 EX_{51}	21.1	V	G96
2008 EY_{195}	2008 03 08.31257	11 42 58.89	+13 08 35.5	2008 EX_{51}	20.7	V	G96
2008 EY_{195}	2008 03 08.32007	11 42 58.64	+13 08 38.5	2008 EX_{51}	20.6	V	G96
2008 EY_{195}	2008 03 08.32744	11 42 58.28	+13 08 41.8	2008 EX_{51}	20.6	V	G96
2008 EZ_{195}	*2008 03 11.38681	11 05 27.31	+03 45 41.2	2008 EN_{70}	20.1	V	703
2008 EZ_{195}	2008 03 11.39229	11 05 26.95	+03 45 43.2	2008 EN_{70}	20.4	V	703
2008 EZ_{195}	2008 03 11.39779	11 05 26.66	+03 45 45.2	2008 EN_{70}	19.9	V	703
2008 EZ_{195}	2008 03 11.40326	11 05 26.34	+03 45 46.6	2008 EN_{70}	20.5	V	703
2008 EA_{196}	*2008 03 11.16253	11 33 51.27	+10 47 27.4	2008 EX_{78}	20.2	V	691
2008 EA_{196}	2008 03 11.18023	11 33 50.20	+10 47 28.1	2008 EX_{78}	21.0	V	691
2008 EA_{196}	2008 03 11.19794	11 33 49.08	+10 47 29.1	2008 EX_{78}	20.5	V	691
2008 EB_{196}	*2008 03 12.32249	11 11 56.32	−05 48 49.3	2008 EY_{104}	20.4	V	G96
2008 EB_{196}	2008 03 12.32963	11 11 55.93	−05 48 46.9	2008 EY_{104}	20.2	V	G96
2008 EB_{196}	2008 03 12.33675	11 11 55.53	−05 48 44.7	2008 EY_{104}	20.4	V	G96
2008 EB_{196}	2008 03 12.34381	11 11 55.10	−05 48 42.5	2008 EY_{104}	20.3	V	G96
2008 EC_{196}	*2008 03 12.35625	12 37 40.15	+06 06 02.1	2008 ER_{106}	22.0	V	G96
2008 EC_{196}	2008 03 12.36720	12 37 39.61	+06 06 06.8	2008 ER_{106}	22.5	V	G96
2008 EC_{196}	2008 03 12.37793	12 37 39.03	+06 06 10.8	2008 ER_{106}	21.7	V	G96
2008 EC_{196}	2008 03 12.38870	12 37 38.46	+06 06 14.6	2008 ER_{106}	22.4	V	G96
2008 ED_{196}	*2008 03 14.26140	09 57 01.40	+11 15 41.8	2008 EK_{109}	22.5	V	G96
2008 ED_{196}	2008 03 14.26871	09 57 01.04	+11 15 41.5	2008 EK_{109}	22.2	V	G96
2008 ED_{196}	2008 03 14.27603	09 57 00.68	+11 15 43.2	2008 EK_{109}	21.7	V	G96
2008 ED_{196}	2008 03 14.28341	09 57 00.28	+11 15 44.8	2008 EK_{109}	21.1	V	G96
2008 EE_{196}	*2008 03 05.32058	11 10 49.18	+04 25 46.2	2008 FT_{31}	21.0	V	G96
2008 EE_{196}	2008 03 05.32618	11 10 48.90	+04 25 48.2	2008 FT_{31}	20.3	V	G96
2008 EE_{196}	2008 03 05.33126	11 10 48.61	+04 25 49.5	2008 FT_{31}	20.7	V	G96
2008 EE_{196}	2008 03 05.33630	11 10 48.36	+04 25 50.5	2008 FT_{31}	20.4	V	G96
2008 FP_{148}	*2008 03 31.18058	10 28 06.38	+08 38 18.3	2008 FT_{28}	22.0	V	691
2008 FP_{148}	2008 03 31.19413	10 28 05.87	+08 38 20.0	2008 FT_{28}	21.8	V	691
2008 FP_{148}	2008 03 31.20767	10 28 05.58	+08 38 23.6	2008 FT_{28}	21.3	V	691
2008 FQ_{148}	*2008 03 29.28176	11 35 18.63	+05 04 00.5	2008 FD_{46}	21.4	V	G96
2008 FQ_{148}	2008 03 29.28752	11 35 18.31	+05 04 01.3	2008 FD_{46}	21.6	V	G96
2008 FQ_{148}	2008 03 29.29356	11 35 17.98	+05 04 02.7	2008 FD_{46}	21.6	V	G96
2008 FQ_{148}	2008 03 29.29942	11 35 17.66	+05 04 03.6	2008 FD_{46}	21.6	V	G96
2008 FR_{148}	*2008 03 29.33064	12 51 49.14	−03 29 46.0	2008 FN_{48}	21.5	V	G96
2008 FR_{148}	2008 03 29.33588	12 51 48.85	−03 29 43.1	2008 FN_{48}	22.3	V	G96
2008 FR_{148}	2008 03 29.34111	12 51 48.56	−03 29 39.9	2008 FN_{48}	21.1	V	G96
2008 FR_{148}	2008 03 29.34637	12 51 48.38	−03 29 39.3	2008 FN_{48}	20.4	V	G96
2008 FS_{148}	*2008 03 31.33267	13 05 44.12	−03 12 19.6	2008 GA_{86}	22.3	V	G96
2008 FS_{148}	2008 03 31.33815	13 05 43.80	−03 12 18.3	2008 GA_{86}	22.5	V	G96
2008 FS_{148}	2008 03 31.34363	13 05 43.51	−03 12 17.0	2008 GA_{86}	21.7	V	G96
2008 FS_{148}	2008 03 31.34914	13 05 43.15	−03 12 15.6	2008 GA_{86}	22.3	V	G96
2008 GX_{174}	*2008 04 03.31475	12 44 04.16	−06 27 06.9	2008 FO_{78}	20.9	V	G96
2008 GX_{174}	2008 04 03.32251	12 44 03.80	−06 27 04.6	2008 FO_{78}	21.2	V	G96
2008 GX_{174}	2008 04 03.33037	12 44 03.44	−06 27 02.5	2008 FO_{78}	21.9	V	G96
2008 GX_{174}	2008 04 03.33824	12 44 03.01	−06 26 59.6	2008 FO_{78}	21.7	V	G96
2008 GY_{174}	*2008 04 03.19149	10 06 17.85	+13 41 04.8	2008 DA_{90}	22.2	V	G96
2008 GY_{174}	2008 04 03.19756	10 06 17.74	+13 41 05.7	2008 DA_{90}	22.1	V	G96
2008 GY_{174}	2008 04 03.20357	10 06 17.67	+13 41 05.5	2008 DA_{90}	22.1	V	G96
2008 GY_{174}	2008 04 03.20955	10 06 17.60	+13 41 05.9	2008 DA_{90}	22.1	V	G96
2008 GZ_{174}	*2008 04 14.27813	12 32 04.52	+03 48 23.0	2008 EH_{163}	21.6	V	G96
2008 GZ_{174}	2008 04 14.28469	12 32 04.23	+03 48 26.7	2008 EH_{163}	21.4	V	G96
2008 GZ_{174}	2008 04 14.29144	12 32 03.94	+03 48 30.2	2008 EH_{163}	21.0	V	G96
2008 GZ_{174}	2008 04 14.29809	12 32 03.66	+03 48 33.3	2008 EH_{163}	20.8	V	G96
2008 GA_{175}	*2008 04 07.89206	11 32 46.91	+18 29 32.2	2008 FU_{5}	21.1	V	A44
2008 GA_{175}	2008 04 07.90058	11 32 46.58	+18 29 30.2	2008 FU_{5}	21.0	V	A44
2008 GA_{175}	2008 04 07.90911	11 32 46.17	+18 29 29.4	2008 FU_{5}	21.3	V	A44
2008 GB_{175}	*2008 04 03.28358	12 38 55.96	−00 28 35.0	2008 FR_{81}	21.3	V	G96
2008 GB_{175}	2008 04 03.29013	12 38 55.64	−00 28 34.0	2008 FR_{81}	22.1	V	G96

2008 GB_{175}	2008 04 03.29670	12 38 55.32	−00 28 31.6	2008 FR_{81}	21.6	V	G96
2008 GB_{175}	2008 04 03.30326	12 38 55.03	−00 28 30.0	2008 FR_{81}	22.0	V	G96
2008 GC_{175}	*2008 04 03.24444	12 35 46.78	−02 32 01.3	2008 FZ_{82}	21.7	V	G96
2008 GC_{175}	2008 04 03.25043	12 35 46.46	−02 31 59.7	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.25638	12 35 46.17	−02 31 58.5	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.26234	12 35 45.85	−02 31 56.7	2008 FZ_{82}	21.8	V	G96
2008 GC_{175}	2008 04 03.31082	12 35 43.40	−02 31 45.0	2008 FZ_{82}	21.3	V	G96
2008 GC_{175}	2008 04 03.31147	12 35 43.33	−02 31 45.0	2008 FZ_{82}	21.7	V	G96
2008 GC_{175}	2008 04 03.31860	12 35 43.00	−02 31 43.1	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.31925	12 35 42.90	−02 31 43.3	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.32642	12 35 42.61	−02 31 41.3	2008 FZ_{82}	21.0	V	G96
2008 GC_{175}	2008 04 03.32708	12 35 42.61	−02 31 41.4	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.33428	12 35 42.18	−02 31 39.4	2008 FZ_{82}	21.2	V	G96
2008 GC_{175}	2008 04 03.33495	12 35 42.14	−02 31 39.7	2008 FZ_{82}	22.1	V	G96
2008 GD_{175}	*2008 04 04.27491	11 54 17.53	+03 37 03.4	2008 FW_{85}	21.6	V	G96
2008 GD_{175}	2008 04 04.28242	11 54 17.13	+03 37 04.9	2008 FW_{85}	21.8	V	G96
2008 GD_{175}	2008 04 04.29001	11 54 16.81	+03 37 07.5	2008 FW_{85}	21.5	V	G96
2008 GD_{175}	2008 04 04.29753	11 54 16.45	+03 37 08.8	2008 FW_{85}	22.1	V	G96
2008 GE_{175}	*2008 04 05.27286	11 31 24.74	+06 45 35.9	2008 FK_{92}	21.4	V	G96
2008 GE_{175}	2008 04 05.28178	11 31 24.45	+06 45 37.7	2008 FK_{92}	20.8	V	G96
2008 GE_{175}	2008 04 05.29062	11 31 24.09	+06 45 40.6	2008 FK_{92}	21.6	V	G96
2008 GE_{175}	2008 04 05.29948	11 31 23.73	+06 45 40.8	2008 FK_{92}	21.7	V	G96
2008 GF_{175}	*2008 04 05.26564	11 34 35.04	+04 04 33.9	2008 FW_{92}	20.9	V	G96
2008 GF_{175}	2008 04 05.27454	11 34 34.75	+04 04 36.6	2008 FW_{92}	21.6	V	G96
2008 GF_{175}	2008 04 05.28344	11 34 34.42	+04 04 37.5	2008 FW_{92}	21.6	V	G96
2008 GF_{175}	2008 04 05.29228	11 34 34.21	+04 04 40.4	2008 FW_{92}	21.5	V	G96
2008 GG_{175}	*2008 04 04.32942	12 46 11.89	+03 33 55.4	2008 FM_{93}	20.4	V	G96
2008 GG_{175}	2008 04 04.33619	12 46 11.49	+03 33 57.2	2008 FM_{93}	21.0	V	G96
2008 GG_{175}	2008 04 04.34294	12 46 11.13	+03 33 58.5	2008 FM_{93}	20.6	V	G96
2008 GG_{175}	2008 04 04.34973	12 46 10.77	+03 33 59.5	2008 FM_{93}	20.9	V	G96
2008 GH_{175}	*2008 04 15.15332	12 09 29.59	−02 45 01.8	2008 FE_{138}	20.9	V	G96
2008 GH_{175}	2008 04 15.15992	12 09 29.30	−02 44 57.6	2008 FE_{138}	20.6	V	G96
2008 GH_{175}	2008 04 15.16652	12 09 29.08	−02 44 56.1	2008 FE_{138}	20.5	V	G96
2008 GH_{175}	2008 04 15.17315	12 09 28.83	−02 44 52.9	2008 FE_{138}	20.9	V	G96
2008 GJ_{175}	*2008 04 08.32819	13 04 13.69	−00 03 17.7	2008 GR_{22}	20.1	V	G96
2008 GJ_{175}	2008 04 08.33484	13 04 13.29	−00 03 17.4	2008 GR_{22}	20.1	V	G96
2008 GJ_{175}	2008 04 08.34157	13 04 12.93	−00 03 16.8	2008 GR_{22}	20.1	V	G96
2008 GJ_{175}	2008 04 08.34825	13 04 12.54	−00 03 16.0	2008 GR_{22}	20.2	V	G96
2008 GK_{175}	*2008 04 11.34534	13 24 19.76	−04 30 53.2	2008 GA_{72}	22.3	V	G96
2008 GK_{175}	2008 04 11.35050	13 24 19.44	−04 30 51.5	2008 GA_{72}	21.6	V	G96
2008 GK_{175}	2008 04 11.35571	13 24 19.15	−04 30 50.7	2008 GA_{72}	21.0	V	G96
2008 GK_{175}	2008 04 11.36082	13 24 18.86	−04 30 49.2	2008 GA_{72}	22.3	V	G96
2008 GK_{175}	2008 05 03.14982	13 06 09.80	−03 09 44.6	2008 GA_{72}	21.7	V	691
2008 GK_{175}	2008 05 03.16919	13 06 09.03	−03 09 42.5	2008 GA_{72}	21.9	V	691
2008 GK_{175}	2008 05 03.18510	13 06 08.37	−03 09 40.4	2008 GA_{72}	21.2	V	691
2008 GL_{175}	*2008 04 10.34480	12 30 36.58	+01 33 29.2	2008 GB_{84}			291
2008 GL_{175}	2008 04 10.34859	12 30 36.39	+01 33 30.7	2008 GB_{84}			291
2008 GL_{175}	2008 04 10.35248	12 30 36.23	+01 33 31.8	2008 GB_{84}			291
2008 GM_{175}	*2008 04 06.35484	15 00 02.13	−11 06 50.1	2008 JC_1	20.8	V	691
2008 GM_{175}	2008 04 06.36998	15 00 01.57	−11 06 43.8	2008 JC_1	20.5	V	691
2008 GM_{175}	2008 04 06.38513	15 00 01.03	−11 06 38.9	2008 JC_1	20.3	V	691
2008 HV_{78}	*2008 04 30.22644	13 06 51.56	−09 11 58.4	2008 HF_{30}			291
2008 HV_{78}	2008 04 30.23019	13 06 51.32	−09 11 58.3	2008 HF_{30}			291
2008 HV_{78}	2008 04 30.23397	13 06 51.18	−09 11 57.0	2008 HF_{30}			291
2008 JT_{53}	*2008 05 03.25160	13 21 51.51	−00 40 17.8	2008 HH_{49}	21.2	V	G96
2008 JT_{53}	2008 05 03.25827	13 21 51.30	−00 40 15.7	2008 HH_{49}	21.3	V	G96
2008 JT_{53}	2008 05 03.26494	13 21 51.04	−00 40 13.7	2008 HH_{49}	21.4	V	G96
2008 JT_{53}	2008 05 03.27156	13 21 50.86	−00 40 11.5	2008 HH_{49}	21.7	V	G96
2008 JU_{53}	*2008 05 02.37885	14 40 20.35	−12 02 56.7	2008 HL_{59}			291
2008 JU_{53}	2008 05 02.38298	14 40 20.13	−12 02 54.9	2008 HL_{59}			291
2008 JU_{53}	2008 05 02.38959	14 40 19.69	−12 02 52.5	2008 HL_{59}			291
2008 JV_{53}	*2008 05 03.22841	12 35 27.24	−04 49 13.9	2008 JA_2	22.2	V	G96
2008 JV_{53}	2008 05 03.23352	12 35 27.13	−04 49 12.9	2008 JA_2	22.3	V	G96
2008 JV_{53}	2008 05 03.23858	12 35 26.98	−04 49 11.3	2008 JA_2	21.6	V	G96
2008 JV_{53}	2008 05 03.24359	12 35 26.80	−04 49 09.6	2008 JA_2	21.5	V	G96
2008 KD_{49}	*2008 05 28.29120	15 52 59.97	−11 23 40.9	2008 KX_{21}	21.1	V	691
2008 KD_{49}	2008 05 28.31228	15 52 58.94	−11 23 34.9	2008 KX_{21}	21.8	V	691
2008 KD_{49}	2008 05 28.32993	15 52 58.07	−11 23 30.0	2008 KX_{21}	21.7	V	691
2008 KE_{49}	*2008 05 28.27900	15 47 08.23	−12 04 31.8	2008 KS_{23}	20.5	V	G96
2008 KE_{49}	2008 05 28.28484	15 47 07.94	−12 04 31.1	2008 KS_{23}	20.9	V	G96
2008 KE_{49}	2008 05 28.29066	15 47 07.58	−12 04 30.2	2008 KS_{23}	20.2	V	G96
2008 KE_{49}	2008 05 28.29650	15 47 07.26	−12 04 30.1	2008 KS_{23}	21.4	V	G96
2008 LH_{21}	*2008 06 02.16883	15 30 39.33	−07 07 22.5	2008 KK_{32}			691
2008 LH_{21}	2008 06 02.18646	15 30 38.45	−07 07 21.8	2008 KK_{32}			691
2008 LH_{21}	2008 06 02.20703	15 30 37.40	−07 07 19.9	2008 KK_{32}			691
2008 QZ_{51}	*2008 08 21.23266	22 26 55.35	−07 03 52.8	2008 SM_{61}	20.8	V	691
2008 QZ_{51}	2008 08 21.25023	22 26 54.46	−07 03 55.7	2008 SM_{61}	20.0	V	691
2008 QZ_{51}	2008 08 21.26543	22 26 53.68	−07 03 57.6	2008 SM_{61}	20.1	V	691
2008 RZ_{179}	*2008 09 12.06095	23 56 07.09	+11 13 06.9	2008 QY_{13}	21	R	461
2008 RZ_{179}	2008 09 12.06977	23 56 06.66	+11 13 05.4	2008 QY_{13}			461
2008 RZ_{179}	2008 09 12.07871	23 56 06.26	+11 13 03.7	2008 QY_{13}			461
2008 RA_{180}	*2008 09 05.31707	00 09 38.07	+06 23 54.6	2008 RV_{18}	21.4	V	691
2008 RA_{180}	2008 09 05.34156	00 09 37.00	+06 23 50.5	2008 RV_{18}	21.2	V	691
2008 RA_{180}	2008 09 05.36259	00 09 36.15	+06 23 46.6	2008 RV_{18}	21.2	V	691
2008 RB_{180}	*2008 09 06.35167	00 47 07.43	+04 39 14.9	2008 RD_{42}			691
2008 RB_{180}	2008 09 06.36926	00 47 06.74	+04 39 14.1	2008 RD_{42}			691
2008 RB_{180}	2008 09 06.38685	00 47 06.10	+04 39 14.0	2008 RD_{42}			691
2008 RC_{180}	*2008 09 07.26517	23 17 58.52	−02 17 42.0	2008 RK_{73}	20.0	V	G96
2008 RC_{180}	2008 09 07.27160	23 17 58.23	−02 17 46.2	2008 RK_{73}	20.4	V	G96
2008 RC_{180}	2008 09 07.27809	23 17 57.94	−02 17 49.8	2008 RK_{73}	20.1	V	G96
2008 RC_{180}	2008 09 07.28456	23 17 57.69	−02 17 53.4	2008 RK_{73}	20.0	V	G96
2008 RC_{180}	2008 09 20.24931	23 09 43.05	−04 24 52.5	2008 RK_{73}	20.3	V	G96
2008 RC_{180}	2008 09 20.25608	23 09 42.80	−04 24 56.6	2008 RK_{73}	20.0	V	G96
2008 RC_{180}	2008 09 20.26267	23 09 42.55	−04 25 00.0	2008 RK_{73}	20.5	V	G96
2008 RC_{180}	2008 09 20.26938	23 09 42.30	−04 25 03.8	2008 RK_{73}	20.2	V	G96
2008 RD_{180}	*2008 09 09.27328	22 33 25.52	−04 30 24.1	2008 SB_{134}	20.9	V	G96
2008 RD_{180}	2008 09 09.27398	22 33 25.48	−04 30 24.3	2008 SB_{134}	20.6	V	G96
2008 RD_{180}	2008 09 09.27961	22 33 25.20	−04 30 25.7	2008 SB_{134}	20.6	V	G96
2008 RD_{180}	2008 09 09.28031	22 33 25.12	−04 30 25.5	2008 SB_{134}	20.7	V	G96
2008 RD_{180}	2008 09 09.28597	22 33 24.84	−04 30 27.7	2008 SB_{134}	20.6	V	G96
2008 RD_{180}	2008 09 09.28668	22 33 24.73	−04 30 28.2	2008 SB_{134}	21.0	V	G96
2008 RD_{180}	2008 09 09.29237	22 33 24.48	−04 30 29.4	2008 SB_{134}	20.6	V	G96
2008 RD_{180}	2008 09 09.29308	22 33 24.48	−04 30 29.4	2008 SB_{134}	20.7	V	G96
2008 SC_{352}	*2008 09 28.34905	23 31 57.21	+11 29 46.7	2008 QX_{46}	18.0	V	703
2008 SC_{352}	2008 09 28.35634	23 31 57.00	+11 29 43.6	2008 QX_{46}	19.0	V	703
2008 SC_{352}	2008 09 28.36369	23 31 56.53	+11 29 42.0	2008 QX_{46}	19.9	V	703

2008 SC_{352}	2008 09 28.37088	23 31 56.10	+11 29 39.3	2008 QX_{46}	19.8	V	703
2008 SD_{352}	*2008 09 20.32297	00 04 46.66	+02 34 34.6	2008 RQ_{37}	21.0	V	G96
2008 SD_{352}	2008 09 20.32911	00 04 46.34	+02 34 33.5	2008 RQ_{37}	21.5	V	G96
2008 SD_{352}	2008 09 20.33520	00 04 46.05	+02 34 32.4	2008 RQ_{37}	21.3	V	G96
2008 SD_{352}	2008 09 20.34133	00 04 45.73	+02 34 31.4	2008 RQ_{37}	22.0	V	G96
2008 SE_{352}	*2008 09 19.34269	23 20 24.35	−03 49 14.2	2008 RX_{104}			291
2008 SE_{352}	2008 09 19.36573	23 20 23.24	−03 49 22.6	2008 RX_{104}			291
2008 SE_{352}	2008 09 19.38876	23 20 22.08	−03 49 31.7	2008 RX_{104}			291
2008 SF_{352}	*2008 09 29.21637	23 21 37.00	+01 21 06.5	2008 RX_{125}	21.5	V	G96
2008 SF_{352}	2008 09 29.22241	23 21 36.79	+01 21 05.0	2008 RX_{125}	21.2	V	G96
2008 SF_{352}	2008 09 29.22846	23 21 36.54	+01 21 02.5	2008 RX_{125}	21.2	V	G96
2008 SF_{352}	2008 09 29.23448	23 21 36.25	+01 21 00.4	2008 RX_{125}	20.9	V	G96
2008 SF_{352}	2008 10 08.20084	23 16 15.52	+00 34 46.7	2008 RX_{125}	20.3	V	G96
2008 SF_{352}	2008 10 08.20626	23 16 15.38	+00 34 45.5	2008 RX_{125}	20.4	V	G96
2008 SF_{352}	2008 10 08.21170	23 16 15.20	+00 34 44.4	2008 RX_{125}	20.5	V	G96
2008 SF_{352}	2008 10 08.21713	23 16 15.02	+00 34 42.1	2008 RX_{125}	20.2	V	G96
2008 SG_{352}	*2008 09 28.30477	00 18 46.58	+08 49 14.9	2008 RC_{127}	21.9	V	G96
2008 SG_{352}	2008 09 28.31338	00 18 46.11	+08 49 13.1	2008 RC_{127}	21.9	V	G96
2008 SG_{352}	2008 09 28.32196	00 18 45.72	+08 49 11.8	2008 RC_{127}	21.8	V	G96
2008 SG_{352}	2008 09 28.33060	00 18 45.25	+08 49 10.3	2008 RC_{127}	21.8	V	G96
2008 SH_{352}	*2008 09 22.21705	23 12 28.44	−02 36 48.3	2008 SQ_{63}	21.1	V	G96
2008 SH_{352}	2008 09 22.22587	23 12 28.04	−02 36 51.8	2008 SQ_{63}	21.2	V	G96
2008 SH_{352}	2008 09 22.23470	23 12 27.57	−02 36 54.5	2008 SQ_{63}	21.4	V	G96
2008 SH_{352}	2008 09 22.24362	23 12 27.14	−02 36 57.7	2008 SQ_{63}	21.2	V	G96
2008 SJ_{352}	*2008 09 29.27174	00 09 36.39	+03 14 10.1	2008 ST_{302}	21.2	V	G96
2008 SJ_{352}	2008 09 29.27774	00 09 36.21	+03 14 07.2	2008 ST_{302}	22.2	V	G96
2008 SJ_{352}	2008 09 29.28385	00 09 35.89	+03 14 04.5	2008 ST_{302}	21.7	V	G96
2008 SJ_{352}	2008 09 29.29043	00 09 35.60	+03 14 01.0	2008 ST_{302}	21.7	V	G96
2008 SK_{352}	*2008 09 29.32256	01 08 26.52	+01 05 29.1	2008 TW_{152}	19.2	V	703
2008 SK_{352}	2008 09 29.32910	01 08 26.16	+01 05 28.9	2008 TW_{152}	19.8	V	703
2008 SK_{352}	2008 09 29.33567	01 08 25.83	+01 05 26.6	2008 TW_{152}	19.7	V	703
2008 SK_{352}	2008 09 29.34232	01 08 25.62	+01 05 25.3	2008 TW_{152}	20.0	V	703
2008 SL_{352}	*2008 09 29.41455	03 16 14.16	+24 00 40.1	2008 UR_{236}	22.2	V	G96
2008 SL_{352}	2008 09 29.41999	03 16 14.08	+24 00 40.0	2008 UR_{236}	22.7	V	G96
2008 SL_{352}	2008 09 29.42549	03 16 13.94	+24 00 40.7	2008 UR_{236}	21.8	V	G96
2008 SL_{352}	2008 09 29.43149	03 16 13.87	+24 00 41.6	2008 UR_{236}	22.3	V	G96
2008 TO_{229}	*2008 10 10.26098	01 45 25.70	+10 21 14.0	2008 TH_{184}	20.3	V	691
2008 TO_{229}	2008 10 10.27862	01 45 24.45	+10 21 17.3	2008 TH_{184}	20.5	V	691
2008 TO_{229}	2008 10 10.29625	01 45 23.20	+10 21 20.8	2008 TH_{184}	20.2	V	691
2008 TP_{229}	*2008 10 01.14148	22 28 17.68	−00 51 45.5	2008 RK_{175}	20.5	V	G96
2008 TP_{229}	2008 10 01.14579	22 28 17.54	−00 51 46.1	2008 RK_{175}	20.8	V	G96
2008 TP_{229}	2008 10 01.15008	22 28 17.40	−00 51 46.9	2008 RK_{175}	20.9	V	G96
2008 TP_{229}	2008 10 01.15439	22 28 17.29	−00 51 47.7	2008 RK_{175}	21.1	V	G96
2008 TQ_{229}	*2008 10 01.29345	00 30 46.00	+02 33 27.6	2008 SJ_{51}	22.0	V	G96
2008 TQ_{229}	2008 10 01.29892	00 30 45.68	+02 33 24.9	2008 SJ_{51}	22.1	V	G96
2008 TQ_{229}	2008 10 01.30441	00 30 45.39	+02 33 22.3	2008 SJ_{51}	21.5	V	G96
2008 TQ_{229}	2008 10 01.30987	00 30 45.10	+02 33 19.3	2008 SJ_{51}	22.0	V	G96
2008 TR_{229}	*2008 10 09.19053	00 08 38.76	+16 15 52.6	2008 SZ_{140}	21.8	V	G96
2008 TR_{229}	2008 10 09.19544	00 08 38.58	+16 15 50.5	2008 SZ_{140}	21.7	V	G96
2008 TR_{229}	2008 10 09.20022	00 08 38.36	+16 15 47.4	2008 SZ_{140}	21.7	V	G96
2008 TR_{229}	2008 10 09.20498	00 08 38.18	+16 15 45.2	2008 SZ_{140}	22.1	V	G96
2008 TS_{229}	*2008 10 01.30459	02 00 31.87	+11 14 24.8	2008 SV_{180}	21.4	V	691
2008 TS_{229}	2008 10 01.32221	02 00 31.03	+11 14 22.6	2008 SV_{180}	20.8	V	691
2008 TS_{229}	2008 10 01.33983	02 00 30.13	+11 14 21.2	2008 SV_{180}	20.9	V	691
2008 TS_{229}	2008 10 28.22332	01 35 22.74	+09 52 12.3	2008 SV_{180}	21.3	V	G96
2008 TS_{229}	2008 10 28.22825	01 35 22.45	+09 52 10.5	2008 SV_{180}	21.8	V	G96
2008 TS_{229}	2008 10 28.23329	01 35 22.12	+09 52 09.5	2008 SV_{180}	21.6	V	G96
2008 TS_{229}	2008 10 28.23830	01 35 21.87	+09 52 07.5	2008 SV_{180}	21.4	V	G96
2008 TT_{229}	*2008 10 01.24931	00 23 56.54	+01 16 43.2	2008 SE_{216}	20.8	V	G96
2008 TT_{229}	2008 10 01.25425	00 23 56.32	+01 16 40.7	2008 SE_{216}	21.4	V	G96
2008 TT_{229}	2008 10 01.25914	00 23 56.07	+01 16 38.6	2008 SE_{216}	21.9	V	G96
2008 TT_{229}	2008 10 01.26406	00 23 55.86	+01 16 36.0	2008 SE_{216}	21.4	V	G96
2008 TU_{229}	*2008 10 02.24388	23 14 26.48	−03 37 04.3	2008 SY_{251}	20.5	V	G96
2008 TU_{229}	2008 10 02.25044	23 14 26.19	−03 37 05.7	2008 SY_{251}	20.6	V	G96
2008 TU_{229}	2008 10 02.25692	23 14 25.90	−03 37 06.8	2008 SY_{251}	20.4	V	G96
2008 TU_{229}	2008 10 02.26340	23 14 25.69	−03 37 08.2	2008 SY_{251}	20.4	V	G96
2008 TV_{229}	*2008 10 02.42581	03 15 50.50	+18 21 00.1	2008 TK_{18}	21.1	V	691
2008 TV_{229}	2008 10 02.44690	03 15 49.99	+18 20 54.0	2008 TK_{18}	21.9	V	691
2008 TV_{229}	2008 10 02.46453	03 15 49.60	+18 20 49.4	2008 TK_{18}	21.8	V	691
2008 TW_{229}	*2008 10 09.34087	01 12 21.04	+04 48 50.3	2008 TJ_{80}			291
2008 TW_{229}	2008 10 09.34935	01 12 20.60	+04 48 46.5	2008 TJ_{80}			291
2008 TW_{229}	2008 10 09.35668	01 12 20.25	+04 48 43.7	2008 TJ_{80}			291
2008 TX_{229}	*2008 10 08.33085	01 49 24.85	+16 24 59.2	2008 TV_{183}	20.5	V	G96
2008 TX_{229}	2008 10 08.33737	01 49 24.56	+16 24 57.2	2008 TV_{183}	20.4	V	G96
2008 TX_{229}	2008 10 08.34397	01 49 24.27	+16 24 55.2	2008 TV_{183}	20.5	V	G96
2008 TX_{229}	2008 10 08.35066	01 49 23.95	+16 24 53.1	2008 TV_{183}	20.4	V	G96
2008 TX_{229}	2008 10 31.21654	01 31 28.57	+14 02 01.0	2008 TV_{183}			291
2008 TX_{229}	2008 10 31.22041	01 31 28.37	+14 01 59.6	2008 TV_{183}			291
2008 TX_{229}	2008 10 31.22431	01 31 28.17	+14 01 58.2	2008 TV_{183}			291
2008 TY_{229}	*2008 10 01.44102	02 04 33.95	+05 38 34.7	2008 UZ_{69}			291
2008 TY_{229}	2008 10 01.44474	02 04 33.76	+05 38 33.1	2008 UZ_{69}			291
2008 TY_{229}	2008 10 01.44845	02 04 33.59	+05 38 32.3	2008 UZ_{69}			291
2008 UK_{415}	*2008 10 28.29419	02 31 01.38	+13 05 13.8	2008 UF_{366}	20.6	V	G96
2008 UK_{415}	2008 10 28.29912	02 31 01.12	+13 05 12.7	2008 UF_{366}	21.0	V	G96
2008 UK_{415}	2008 10 28.30405	02 31 00.84	+13 05 11.7	2008 UF_{366}	20.4	V	G96
2008 UK_{415}	2008 10 28.30901	02 31 00.62	+13 05 11.4	2008 UF_{366}	20.0	V	G96
2008 UL_{415}	*2008 10 28.32997	02 30 25.77	+06 10 03.3	2008 UJ_{366}	20.3	V	G96
2008 UL_{415}	2008 10 28.33523	02 30 25.56	+06 10 01.7	2008 UJ_{366}	20.1	V	G96
2008 UL_{415}	2008 10 28.34060	02 30 25.30	+06 10 00.7	2008 UJ_{366}	20.2	V	G96
2008 UL_{415}	2008 10 28.34590	02 30 25.02	+06 09 59.0	2008 UJ_{366}	20.3	V	G96
2008 UM_{415}	*2008 10 30.30608	00 20 51.10	+13 37 46.3	2008 SE_{31}	21.9	V	G96
2008 UM_{415}	2008 10 30.31215	00 20 50.85	+13 37 44.1	2008 SE_{31}	21.6	V	G96
2008 UM_{415}	2008 10 30.31819	00 20 50.67	+13 37 42.6	2008 SE_{31}	21.3	V	G96
2008 UM_{415}	2008 10 30.32427	00 20 50.46	+13 37 40.1	2008 SE_{31}	21.5	V	G96
2008 UN_{415}	*2008 10 22.37372	02 10 43.82	+05 57 18.0	2008 SV_{59}	21.8	V	G96
2008 UN_{415}	2008 10 22.37943	02 10 43.57	+05 57 14.2	2008 SV_{59}	21.6	V	G96
2008 UN_{415}	2008 10 22.38512	02 10 43.28	+05 57 12.8	2008 SV_{59}	21.9	V	G96
2008 UN_{415}	2008 10 22.39082	02 10 43.03	+05 57 10.0	2008 SV_{59}	21.2	V	G96
2008 UO_{415}	*2008 10 24.27439	01 19 33.34	+02 59 31.6	2008 SG_{115}	21.2	V	G96
2008 UO_{415}	2008 10 24.27998	01 19 33.09	+02 59 31.5	2008 SG_{115}	21.4	V	G96
2008 UO_{415}	2008 10 24.28560	01 19 32.77	+02 59 29.5	2008 SG_{115}	20.8	V	G96
2008 UO_{415}	2008 10 24.29120	01 19 32.48	+02 59 29.7	2008 SG_{115}	20.7	V	G96
2008 UP_{415}	*2008 10 25.37527	02 49 35.50	+08 16 27.5	2008 ST_{205}	22.0	V	G96
2008 UP_{415}	2008 10 25.37851	02 49 35.25	+08 16 28.1	2008 ST_{205}	21.1	V	G96
2008 UP_{415}	2008 10 25.38176	02 49 35.00	+08 16 26.7	2008 ST_{205}	21.2	V	G96
2008 UP_{415}	2008 10 25.38501	02 49 34.82	+08 16 26.7	2008 ST_{205}	21.5	V	G96

2008 UQ_{415}	*2008 10 25.27389	02 26 02.29	+07 53 44.0	2008 SK_{226}	19.9	V	G96
2008 UQ_{415}	2008 10 25.27832	02 26 02.04	+07 53 43.1	2008 SK_{226}	20.3	V	G96
2008 UQ_{415}	2008 10 25.28281	02 26 01.78	+07 53 41.6	2008 SK_{226}	20.3	V	G96
2008 UQ_{415}	2008 10 25.28719	02 26 01.53	+07 53 40.4	2008 SK_{226}	20.2	V	G96
2008 UR_{415}	*2008 10 21.31333	01 32 11.07	−01 31 15.7	2008 SG_{260}	19.8	V	G96
2008 UR_{415}	2008 10 21.31758	01 32 10.86	−01 31 17.0	2008 SG_{260}	20.0	V	G96
2008 UR_{415}	2008 10 21.32189	01 32 10.64	−01 31 18.4	2008 SG_{260}	20.2	V	G96
2008 UR_{415}	2008 10 21.32617	01 32 10.42	−01 31 19.7	2008 SG_{260}	19.9	V	G96
2008 US_{415}	*2008 10 25.16069	00 22 04.72	−00 07 30.3	2008 SN_{278}	21.0	V	G96
2008 US_{415}	2008 10 25.16516	00 22 04.54	−00 07 31.2	2008 SN_{278}	21.5	V	G96
2008 US_{415}	2008 10 25.16956	00 22 04.36	−00 07 31.5	2008 SN_{278}	21.2	V	G96
2008 US_{415}	2008 10 25.17393	00 22 04.18	−00 07 32.0	2008 SN_{278}	21.7	V	G96
2008 UT_{415}	*2008 10 21.28639	01 21 09.32	−02 33 51.7	2008 SH_{297}	21.0	V	G96
2008 UT_{415}	2008 10 21.29066	01 21 09.03	−02 33 51.1	2008 SH_{297}	20.9	V	G96
2008 UT_{415}	2008 10 21.29516	01 21 08.67	−02 33 50.1	2008 SH_{297}	20.9	V	G96
2008 UT_{415}	2008 10 21.29944	01 21 08.38	−02 33 49.1	2008 SH_{297}	20.8	V	G96
2008 UT_{415}	2008 10 29.34752	01 13 32.05	−02 19 28.0	2008 SH_{297}	20.2	V	703
2008 UT_{415}	2008 10 29.35307	01 13 31.83	−02 19 27.3	2008 SH_{297}	19.4	V	703
2008 UT_{415}	2008 10 29.35855	01 13 31.40	−02 19 27.1	2008 SH_{297}	20.2	V	703
2008 UT_{415}	2008 10 29.36417	01 13 31.15	−02 19 25.7	2008 SH_{297}	20.2	V	703
2008 UU_{415}	*2008 10 24.08156	00 25 39.23	−00 20 32.6	2008 SF_{306}	21.1	V	691
2008 UU_{415}	2008 10 24.10673	00 25 38.07	−00 20 35.7	2008 SF_{306}	21.7	V	691
2008 UU_{415}	2008 10 24.12845	00 25 37.12	−00 20 38.1	2008 SF_{306}	21.4	V	691
2008 UU_{415}	2008 10 25.16069	00 24 52.48	−00 22 39.2	2008 SF_{306}	21.8	V	G96
2008 UU_{415}	2008 10 25.16516	00 24 52.23	−00 22 40.0	2008 SF_{306}	21.5	V	G96
2008 UU_{415}	2008 10 25.16956	00 24 52.05	−00 22 40.8	2008 SF_{306}	21.3	V	G96
2008 UU_{415}	2008 10 25.17393	00 24 51.84	−00 22 40.6	2008 SF_{306}	21.6	V	G96
2008 UV_{415}	*2008 10 29.28880	01 24 35.60	+01 20 51.8	2008 TV_2	19.3	V	703
2008 UV_{415}	2008 10 29.29552	01 24 35.35	+01 20 51.5	2008 TV_2	19.6	V	703
2008 UV_{415}	2008 10 29.30224	01 24 34.88	+01 20 51.1	2008 TV_2	20.3	V	703
2008 UV_{415}	2008 10 29.30887	01 24 34.56	+01 20 50.0	2008 TV_2	20.6	V	703
2008 UW_{415}	*2008 10 28.24192	01 40 08.11	+08 00 49.7	2008 TU_{30}	20.9	V	G96
2008 UW_{415}	2008 10 28.24796	01 40 07.82	+08 00 48.0	2008 TU_{30}	21.5	V	G96
2008 UW_{415}	2008 10 28.25399	01 40 07.57	+08 00 45.2	2008 TU_{30}	21.2	V	G96
2008 UW_{415}	2008 10 28.26003	01 40 07.24	+08 00 43.1	2008 TU_{30}	21.6	V	G96
2008 UX_{415}	*2008 10 25.37472	02 44 35.55	+08 31 21.0	2008 TP_{47}	20.8	V	G96
2008 UX_{415}	2008 10 25.37798	02 44 35.34	+08 31 21.3	2008 TP_{47}	20.6	V	G96
2008 UX_{415}	2008 10 25.38123	02 44 35.19	+08 31 20.8	2008 TP_{47}	20.3	V	G96
2008 UX_{415}	2008 10 25.38447	02 44 35.01	+08 31 20.8	2008 TP_{47}	20.5	V	G96
2008 UY_{415}	*2008 10 28.35366	02 31 59.34	+07 00 26.2	2008 TL_{71}	20.7	V	G96
2008 UY_{415}	2008 10 28.35911	02 31 59.01	+07 00 24.1	2008 TL_{71}	20.7	V	G96
2008 UY_{415}	2008 10 28.36448	02 31 58.76	+07 00 23.0	2008 TL_{71}	20.6	V	G96
2008 UY_{415}	2008 10 28.36981	02 31 58.47	+07 00 20.9	2008 TL_{71}	20.5	V	G96
2008 UZ_{415}	*2008 10 28.35413	02 35 53.80	+06 32 12.4	2008 TY_{71}	20.7	V	G96
2008 UZ_{415}	2008 10 28.35959	02 35 53.52	+06 32 10.7	2008 TY_{71}	20.6	V	G96
2008 UZ_{415}	2008 10 28.36494	02 35 53.26	+06 32 08.9	2008 TY_{71}	20.4	V	G96
2008 UZ_{415}	2008 10 28.37030	02 35 52.94	+06 32 07.4	2008 TY_{71}	20.2	V	G96
2008 UA_{416}	*2008 10 29.33780	00 18 02.34	+12 26 00.8	2008 TD_{97}	20.5	V	G96
2008 UA_{416}	2008 10 29.34194	00 18 02.16	+12 25 59.9	2008 TD_{97}	20.4	V	G96
2008 UA_{416}	2008 10 29.34607	00 18 01.98	+12 25 59.5	2008 TD_{97}	20.4	V	G96
2008 UA_{416}	2008 10 29.35018	00 18 01.83	+12 25 59.5	2008 TD_{97}	20.3	V	G96
2008 UB_{416}	*2008 10 20.23942	01 30 36.43	+08 45 37.0	2008 TH_{101}	20.7	V	G96
2008 UB_{416}	2008 10 20.24439	01 30 36.18	+08 45 34.9	2008 TH_{101}	20.5	V	G96
2008 UB_{416}	2008 10 20.24940	01 30 36.00	+08 45 32.4	2008 TH_{101}	21.0	V	G96
2008 UB_{416}	2008 10 20.25438	01 30 35.74	+08 45 30.1	2008 TH_{101}	21.1	V	G96
2008 UC_{416}	*2008 10 21.31333	01 32 16.54	−01 30 31.2	2008 TL_{109}	20.5	V	G96
2008 UC_{416}	2008 10 21.31758	01 32 16.36	−01 30 32.6	2008 TL_{109}	20.9	V	G96
2008 UC_{416}	2008 10 21.32189	01 32 16.18	−01 30 34.7	2008 TL_{109}	20.5	V	G96
2008 UC_{416}	2008 10 21.32617	01 32 16.00	−01 30 36.5	2008 TL_{109}	21.1	V	G96
2008 UD_{416}	*2008 10 25.17948	00 43 31.69	+01 46 34.0	2008 TY_{161}	21.0	V	G96
2008 UD_{416}	2008 10 25.18391	00 43 31.47	+01 46 33.3	2008 TY_{161}	21.1	V	G96
2008 UD_{416}	2008 10 25.18831	00 43 31.33	+01 46 32.3	2008 TY_{161}	21.3	V	G96
2008 UD_{416}	2008 10 25.19280	00 43 31.11	+01 46 31.1	2008 TY_{161}	22.1	V	G96
2008 UE_{416}	*2008 10 23.14355	00 39 44.19	−00 07 48.8	2008 TZ_{161}	20.9	V	691
2008 UE_{416}	2008 10 23.15942	00 39 43.47	−00 07 49.1	2008 TZ_{161}	20.7	V	691
2008 UE_{416}	2008 10 23.17529	00 39 42.72	−00 07 49.3	2008 TZ_{161}	20.7	V	691
2008 UE_{416}	2008 10 25.17678	00 38 14.74	−00 07 36.5	2008 TZ_{161}	20.5	V	G96
2008 UE_{416}	2008 10 25.18118	00 38 14.46	−00 07 37.0	2008 TZ_{161}	20.8	V	G96
2008 UE_{416}	2008 10 25.18560	00 38 14.28	−00 07 36.4	2008 TZ_{161}	21.0	V	G96
2008 UE_{416}	2008 10 25.19008	00 38 14.06	−00 07 36.6	2008 TZ_{161}	20.9	V	G96
2008 UF_{416}	*2008 10 28.40721	02 33 46.08	+09 53 14.8	2008 TJ_{167}	19.9	V	G96
2008 UF_{416}	2008 10 28.41212	02 33 45.79	+09 53 13.7	2008 TJ_{167}	19.7	V	G96
2008 UF_{416}	2008 10 28.41708	02 33 45.54	+09 53 12.3	2008 TJ_{167}	19.9	V	G96
2008 UF_{416}	2008 11 06.14970	02 26 00.60	+09 18 31.6	2008 TJ_{167}	20.2	V	691
2008 UF_{416}	2008 11 06.16729	02 25 59.66	+09 18 27.5	2008 TJ_{167}	20.3	V	691
2008 UF_{416}	2008 11 06.18782	02 25 58.56	+09 18 22.9	2008 TJ_{167}	20.6	V	691
2008 UG_{416}	*2008 10 26.22181	01 45 37.58	+14 36 24.0	2008 TS_{175}	21.3	V	G96
2008 UG_{416}	2008 10 26.22689	01 45 37.33	+14 36 21.8	2008 TS_{175}	21.4	V	G96
2008 UG_{416}	2008 10 26.23182	01 45 37.08	+14 36 20.0	2008 TS_{175}	21.4	V	G96
2008 UG_{416}	2008 10 26.23673	01 45 36.82	+14 36 18.9	2008 TS_{175}	21.5	V	G96
2008 UH_{416}	*2008 10 29.42345	01 08 32.46	+19 51 07.5	2008 TU_{175}	22.5	V	G96
2008 UH_{416}	2008 10 29.42759	01 08 32.28	+19 51 06.5	2008 TU_{175}	21.9	V	G96
2008 UH_{416}	2008 10 29.43174	01 08 32.10	+19 51 05.1	2008 TU_{175}	21.2	V	G96
2008 UH_{416}	2008 10 29.43590	01 08 31.92	+19 51 03.6	2008 TU_{175}	21.7	V	G96
2008 UJ_{416}	*2008 10 26.20404	01 28 16.17	+17 09 45.5	2008 TW_{175}	20.0	V	G96
2008 UJ_{416}	2008 10 26.20905	01 28 15.92	+17 09 42.9	2008 TW_{175}	19.9	V	G96
2008 UJ_{416}	2008 10 26.21407	01 28 15.70	+17 09 40.4	2008 TW_{175}	20.0	V	G96
2008 UJ_{416}	2008 10 26.21909	01 28 15.45	+17 09 38.3	2008 TW_{175}	20.2	V	G96
2008 UK_{416}	*2008 10 30.27665	01 28 15.45	+05 20 04.0	2008 TW_{182}			291
2008 UK_{416}	2008 10 30.28046	01 28 15.27	+05 20 03.1	2008 TW_{182}			291
2008 UK_{416}	2008 10 30.28426	01 28 15.08	+05 20 02.6	2008 TW_{182}			291
2008 UL_{416}	*2008 10 30.27668	01 28 19.52	+05 25 19.1	2008 TR_{186}			291
2008 UL_{416}	2008 10 30.28048	01 28 19.33	+05 25 18.7	2008 TR_{186}			291
2008 UL_{416}	2008 10 30.28429	01 28 19.14	+05 25 18.0	2008 TR_{186}			291
2008 UM_{416}	*2008 10 28.24814	01 20 11.04	+20 28 34.9	2008 TK_{188}	19.1		704
2008 UM_{416}	2008 10 28.25963	01 20 10.45	+20 28 29.7	2008 TK_{188}	19.9		704
2008 UM_{416}	2008 10 28.28279	01 20 09.37	+20 28 20.3	2008 TK_{188}	19.6		704
2008 UM_{416}	2008 10 28.29456	01 20 08.69	+20 28 15.3	2008 TK_{188}	20.3		704
2008 UM_{416}	2008 10 29.42545	01 19 15.74	+20 21 03.6	2008 TK_{188}	18.8	V	G96
2008 UM_{416}	2008 10 29.42956	01 19 15.52	+20 21 02.3	2008 TK_{188}	19.1	V	G96
2008 UM_{416}	2008 10 29.43374	01 19 15.34	+20 21 00.4	2008 TK_{188}	18.6	V	G96
2008 UM_{416}	2008 10 29.43788	01 19 15.13	+20 20 58.8	2008 TK_{188}	18.7	V	G96
2008 UN_{416}	*2008 10 26.22521	01 49 57.14	+11 20 34.4	2008 UJ_{19}	21.0	V	G96
2008 UN_{416}	2008 10 26.23015	01 49 56.82	+11 20 33.3	2008 UJ_{19}	20.6	V	G96
2008 UN_{416}	2008 10 26.23507	01 49 56.53	+11 20 31.3	2008 UJ_{19}	21.0	V	G96
2008 UN_{416}	2008 10 26.24001	01 49 56.24	+11 20 30.4	2008 UJ_{19}	21.1	V	G96

2008 UO_{416}	*2008 10 23.27510	01 25 47.38	+09 47 17.8	2008 UN_{43}	21.4	V	G96
2008 UO_{416}	2008 10 23.28175	01 25 47.02	+09 47 15.9	2008 UN_{43}	21.4	V	G96
2008 UO_{416}	2008 10 23.28833	01 25 46.70	+09 47 14.2	2008 UN_{43}	21.6	V	G96
2008 UO_{416}	2008 10 23.29494	01 25 46.41	+09 47 11.9	2008 UN_{43}	20.9	V	G96
2008 UP_{416}	*2008 10 25.30799	01 17 28.96	+11 59 46.6	2008 UM_{89}	21.0	V	G96
2008 UP_{416}	2008 10 25.31248	01 17 28.78	+11 59 44.4	2008 UM_{89}	20.7	V	G96
2008 UP_{416}	2008 10 25.31703	01 17 28.60	+11 59 42.3	2008 UM_{89}	21.9	V	G96
2008 UP_{416}	2008 10 25.32154	01 17 28.39	+11 59 40.9	2008 UM_{89}	21.5	V	G96
2008 UQ_{416}	*2008 10 26.22521	01 48 38.84	+11 56 02.5	2008 UR_{103}	21.8	V	G96
2008 UQ_{416}	2008 10 26.23015	01 48 38.59	+11 56 01.9	2008 UR_{103}	21.4	V	G96
2008 UQ_{416}	2008 10 26.23507	01 48 38.37	+11 56 00.9	2008 UR_{103}	21.8	V	G96
2008 UQ_{416}	2008 10 26.24001	01 48 38.05	+11 56 00.3	2008 UR_{103}	21.5	V	G96
2008 UR_{416}	*2008 10 26.22294	01 47 39.98	+13 02 18.7	2008 UA_{104}	22.0	V	G96
2008 UR_{416}	2008 10 26.22798	01 47 39.76	+13 02 18.0	2008 UA_{104}	21.5	V	G96
2008 UR_{416}	2008 10 26.23289	01 47 39.44	+13 02 16.8	2008 UA_{104}	21.7	V	G96
2008 UR_{416}	2008 10 26.23784	01 47 39.19	+13 02 15.8	2008 UA_{104}	21.6	V	G96
2008 US_{416}	*2008 10 27.22302	03 09 36.95	+18 21 41.8	2008 UY_{132}	21.6	V	691
2008 US_{416}	2008 10 27.24069	03 09 35.99	+18 21 38.6	2008 UY_{132}	21.2	V	691
2008 US_{416}	2008 10 27.25836	03 09 34.96	+18 21 35.4	2008 UY_{132}	21.5	V	691
2008 UT_{416}	*2008 10 27.17123	02 05 49.76	+10 34 50.1	2008 UD_{153}	20.8	V	691
2008 UT_{416}	2008 10 27.18889	02 05 48.64	+10 34 44.2	2008 UD_{153}	21.4	V	691
2008 UT_{416}	2008 10 27.20656	02 05 47.64	+10 34 38.0	2008 UD_{153}	21.4	V	691
2008 UU_{416}	*2008 10 26.15592	02 16 43.17	+16 37 28.6	2008 UA_{186}	20.8	V	691
2008 UU_{416}	2008 10 26.17358	02 16 42.25	+16 37 20.7	2008 UA_{186}	21.1	V	691
2008 UU_{416}	2008 10 26.19124	02 16 41.37	+16 37 12.4	2008 UA_{186}	20.9	V	691
2008 UV_{416}	*2008 10 28.35366	02 31 03.36	+07 29 12.3	2008 UM_{191}	21.2	V	G96
2008 UV_{416}	2008 10 28.35911	02 31 03.00	+07 29 11.1	2008 UM_{191}	20.9	V	G96
2008 UV_{416}	2008 10 28.36448	02 31 02.71	+07 29 10.1	2008 UM_{191}	20.8	V	G96
2008 UV_{416}	2008 10 28.36981	02 31 02.42	+07 29 08.8	2008 UM_{191}	21.0	V	G96
2008 UW_{416}	*2008 10 28.17299	00 26 15.22	+06 35 15.2	2008 UW_{196}			291
2008 UW_{416}	2008 10 28.17668	00 26 15.06	+06 35 13.1	2008 UW_{196}			291
2008 UW_{416}	2008 10 28.18036	00 26 14.92	+06 35 13.0	2008 UW_{196}			291
2008 UX_{416}	*2008 10 31.34109	01 41 25.15	+14 07 39.4	2008 UX_{238}	21.1	V	G96
2008 UX_{416}	2008 10 31.34833	01 41 24.82	+14 07 36.5	2008 UX_{238}	21.2	V	G96
2008 UX_{416}	2008 10 31.35561	01 41 24.43	+14 07 34.7	2008 UX_{238}	20.9	V	G96
2008 UX_{416}	2008 10 31.36277	01 41 24.10	+14 07 32.1	2008 UX_{238}	20.9	V	G96
2008 UX_{416}	2008 11 06.20675	01 36 58.60	+13 35 12.2	2008 UX_{238}	22.0	V	G96
2008 UX_{416}	2008 11 06.21169	01 36 58.42	+13 35 11.0	2008 UX_{238}	21.9	V	G96
2008 UX_{416}	2008 11 06.21650	01 36 58.17	+13 35 10.1	2008 UX_{238}	21.2	V	G96
2008 UX_{416}	2008 11 06.22135	01 36 57.99	+13 35 08.0	2008 UX_{238}	21.5	V	G96
2008 UY_{416}	*2008 10 31.34109	01 41 44.52	+14 30 12.4	2008 UY_{238}	21.2	V	G96
2008 UY_{416}	2008 10 31.34833	01 41 44.08	+14 30 10.2	2008 UY_{238}	21.4	V	G96
2008 UY_{416}	2008 10 31.35561	01 41 43.72	+14 30 08.2	2008 UY_{238}	20.6	V	G96
2008 UY_{416}	2008 10 31.36277	01 41 43.36	+14 30 07.0	2008 UY_{238}	21.8	V	G96
2008 UZ_{416}	*2008 10 31.16611	00 53 50.12	+15 30 17.3	2008 UJ_{310}			291
2008 UZ_{416}	2008 10 31.16994	00 53 49.94	+15 30 16.9	2008 UJ_{310}			291
2008 UZ_{416}	2008 10 31.17376	00 53 49.75	+15 30 17.0	2008 UJ_{310}			291
2008 UA_{417}	*2008 10 31.16612	00 53 51.24	+15 26 53.7	2008 UK_{310}			291
2008 UA_{417}	2008 10 31.16995	00 53 51.08	+15 26 52.5	2008 UK_{310}			291
2008 UA_{417}	2008 10 31.17377	00 53 50.95	+15 26 51.8	2008 UK_{310}			291
2008 UB_{417}	*2008 10 28.24578	01 44 14.24	+08 52 53.2	2008 UK_{366}	21.4	V	G96
2008 UB_{417}	2008 10 28.25176	01 44 13.95	+08 52 51.4	2008 UK_{366}	21.0	V	G96
2008 UB_{417}	2008 10 28.25782	01 44 13.63	+08 52 49.7	2008 UK_{366}	21.2	V	G96
2008 UB_{417}	2008 10 28.26384	01 44 13.27	+08 52 48.5	2008 UK_{366}	20.6	V	G96
2008 UB_{417}	2008 11 08.14165	01 35 31.70	+08 15 33.9	2008 UK_{366}	20.6	V	G96
2008 UB_{417}	2008 11 08.14777	01 35 31.45	+08 15 32.5	2008 UK_{366}	21.4	V	G96
2008 UB_{417}	2008 11 08.15377	01 35 31.20	+08 15 30.8	2008 UK_{366}	20.6	V	G96
2008 UB_{417}	2008 11 08.15984	01 35 30.87	+08 15 30.2	2008 UK_{366}	21.6	V	G96
2008 UC_{417}	*2008 10 21.38634	04 08 29.06	+27 49 09.9	2008 XS_{13}	20.9	V	691
2008 UC_{417}	2008 10 21.40445	04 08 28.47	+27 49 08.2	2008 XS_{13}	20.4	V	691
2008 UC_{417}	2008 10 21.42222	04 08 27.85	+27 49 07.8	2008 XS_{13}	20.8	V	691
2008 VY_{104}	*2008 11 08.09760	01 44 36.28	+08 47 08.4	2008 TQ_{31}	21.6	V	691
2008 VY_{104}	2008 11 08.11524	01 44 35.58	+08 47 04.3	2008 TQ_{31}	21.6	V	691
2008 VY_{104}	2008 11 08.13285	01 44 34.74	+08 46 59.8	2008 TQ_{31}	21.1	V	691
2008 VZ_{104}	2008 11 02.13742	23 55 22.11	−02 20 17.9	2017 SP_{141}	20.4	V	G96
2008 VZ_{104}	2008 11 02.14565	23 55 21.97	−02 20 15.4	2017 SP_{141}	21.4	V	G96
2008 VZ_{104}	*2008 11 02.15400	23 55 21.75	−02 20 13.3	2017 SP_{141}	21.3	V	G96
2008 VZ_{104}	2008 11 02.16224	23 55 21.61	−02 20 10.7	2017 SP_{141}	20.5	V	G96
2008 VA_{105}	*2008 11 02.33103	04 03 14.96	+27 20 29.6	2008 UL_{301}			691
2008 VA_{105}	2008 11 02.34867	04 03 14.16	+27 20 25.3	2008 UL_{301}			691
2008 VA_{105}	2008 11 02.36666	04 03 13.34	+27 20 21.4	2008 UL_{301}			691
2008 VB_{105}	*2008 11 03.12108	02 15 12.24	+21 19 28.8	2008 UD_{320}	20.8	V	G96
2008 VB_{105}	2008 11 03.12765	02 15 11.84	+21 19 26.8	2008 UD_{320}	20.7	V	G96
2008 VB_{105}	2008 11 03.13425	02 15 11.44	+21 19 24.9	2008 UD_{320}	20.8	V	G96
2008 VB_{105}	2008 11 03.14080	02 15 11.12	+21 19 23.2	2008 UD_{320}	20.9	V	G96
2008 VC_{105}	*2008 11 07.17958	01 27 22.24	+08 57 52.1	2008 UC_{335}	20.9	V	G96
2008 VC_{105}	2008 11 07.18617	01 27 21.99	+08 57 50.2	2008 UC_{335}	19.6	V	G96
2008 VC_{105}	2008 11 07.19270	01 27 21.74	+08 57 48.8	2008 UC_{335}	20.4	V	G96
2008 VC_{105}	2008 11 07.19931	01 27 21.49	+08 57 47.0	2008 UC_{335}	20.2	V	G96
2008 VD_{105}	*2008 11 08.20203	03 03 25.71	+14 59 09.1	2008 UM_{339}	21.7	V	691
2008 VD_{105}	2008 11 08.21965	03 03 24.63	+14 58 59.4	2008 UM_{339}	21.5	V	691
2008 VD_{105}	2008 11 08.22204	03 03 24.51	+14 58 57.4	2008 UM_{339}	21.1	V	G96
2008 VD_{105}	2008 11 08.23028	03 03 24.04	+14 58 53.4	2008 UM_{339}	20.7	V	G96
2008 VD_{105}	2008 11 08.23727	03 03 23.60	+14 58 48.8	2008 UM_{339}	21.4	V	691
2008 VD_{105}	2008 11 08.23855	03 03 23.54	+14 58 48.0	2008 UM_{339}	21.2	V	G96
2008 VD_{105}	2008 11 08.24675	03 03 23.07	+14 58 43.8	2008 UM_{339}	20.8	V	G96
2008 VE_{105}	*2008 11 07.26126	03 50 11.58	+13 18 03.1	2008 VU_{34}	20.2	V	G96
2008 VE_{105}	2008 11 07.26677	03 50 11.29	+13 18 03.3	2008 VU_{34}	20.2	V	G96
2008 VE_{105}	2008 11 07.27228	03 50 10.93	+13 18 03.6	2008 VU_{34}	19.9	V	G96
2008 VE_{105}	2008 11 07.27789	03 50 10.64	+13 18 04.1	2008 VU_{34}	19.9	V	G96
2008 VF_{105}	*2008 11 06.32069	03 49 01.76	+26 35 45.4	2008 VR_{35}	20.6	V	691
2008 VF_{105}	2008 11 06.33843	03 49 00.61	+26 35 51.0	2008 VR_{35}	20.4	V	691
2008 VF_{105}	2008 11 06.35622	03 48 59.44	+26 35 56.1	2008 VR_{35}	20.6	V	691
2008 WY_{162}	*2008 11 17.15178	02 14 46.67	+11 44 37.9	2008 UF_{366}	21.0	V	691
2008 WY_{162}	2008 11 17.18351	02 14 45.28	+11 44 30.6	2008 UF_{366}	21.5	V	691
2008 WY_{162}	2008 11 17.21270	02 14 43.98	+11 44 23.8	2008 UF_{366}	20.9	V	691
2008 WZ_{162}	*2008 11 17.33153	02 12 27.70	+04 45 15.6	2008 UJ_{366}			291
2008 WZ_{162}	2008 11 17.33546	02 12 27.53	+04 45 15.3	2008 UJ_{366}			291
2008 WZ_{162}	2008 11 17.33918	02 12 27.41	+04 45 15.3	2008 UJ_{366}			291
2008 WA_{163}	*2008 11 24.26510	02 28 02.00	+12 11 58.7	2008 UF_{27}			291
2008 WA_{163}	2008 11 24.26891	02 28 01.82	+12 11 58.4	2008 UF_{27}			291
2008 WA_{163}	2008 11 24.27272	02 28 01.61	+12 11 57.9	2008 UF_{27}			291
2008 WB_{163}	*2008 11 18.16947	01 58 53.28	+16 17 54.6	2008 UX_{162}	21.1	V	691
2008 WB_{163}	2008 11 18.18603	01 58 52.43	+16 17 49.4	2008 UX_{162}	21.4	V	691
2008 WB_{163}	2008 11 18.20260	01 58 51.69	+16 17 44.8	2008 UX_{162}	20.8	V	691
2008 WC_{163}	*2008 11 20.10569	02 48 01.71	+17 15 23.7	2008 UK_{251}			291

2008 WC_{163}	2008 11 20.10986	02 48 01.49	+17 15 23.8	2008 UK_{251}			291
2008 WC_{163}	2008 11 20.11383	02 48 01.23	+17 15 23.5	2008 UK_{251}			291
2008 WD_{163}	*2008 11 21.29623	03 41 13.30	+12 40 10.5	2008 VL_{11}	20.4	V	G96
2008 WD_{163}	2008 11 21.30175	03 41 12.94	+12 40 10.5	2008 VL_{11}	20.5	V	G96
2008 WD_{163}	2008 11 21.30728	03 41 12.55	+12 40 10.9	2008 VL_{11}	20.6	V	G96
2008 WD_{163}	2008 11 21.31293	03 41 12.19	+12 40 10.6	2008 VL_{11}	20.6	V	G96
2008 WE_{163}	*2008 11 30.21505	04 30 21.33	+12 14 04.0	2008 VL_{35}			291
2008 WE_{163}	2008 11 30.21882	04 30 21.06	+12 14 03.2	2008 VL_{35}			291
2008 WE_{163}	2008 11 30.22257	04 30 20.81	+12 14 02.4	2008 VL_{35}			291
2008 WF_{163}	*2008 11 30.25101	04 05 43.88	+11 08 07.0	2008 VL_{77}	20.1		704
2008 WF_{163}	2008 11 30.26350	04 05 43.14	+11 08 08.2	2008 VL_{77}	20.2		704
2008 WF_{163}	2008 11 30.27604	04 05 42.33	+11 08 08.0	2008 VL_{77}	20.4		704
2008 WF_{163}	2008 12 02.41774	04 03 41.50	+11 07 26.9	2008 VL_{77}	19.9	V	G96
2008 WF_{163}	2008 12 02.42353	04 03 41.22	+11 07 26.5	2008 VL_{77}	20.1	V	G96
2008 WF_{163}	2008 12 02.42931	04 03 40.86	+11 07 26.7	2008 VL_{77}	20.3	V	G96
2008 WF_{163}	2008 12 02.43510	04 03 40.53	+11 07 26.5	2008 VL_{77}	20.2	V	G96
2008 WG_{163}	*2008 11 30.22389	03 17 30.55	+14 55 09.4	2008 WA_{58}	20.1	V	G96
2008 WG_{163}	2008 11 30.22939	03 17 30.26	+14 55 08.8	2008 WA_{58}	20.1	V	G96
2008 WG_{163}	2008 11 30.23487	03 17 30.01	+14 55 08.3	2008 WA_{58}	20.2	V	G96
2008 WG_{163}	2008 11 30.24035	03 17 29.76	+14 55 07.2	2008 WA_{58}	20.4	V	G96
2008 WH_{163}	*2008 11 24.13046	02 29 19.86	+18 54 45.8	2008 WP_{65}			691
2008 WH_{163}	2008 11 24.14630	02 29 19.29	+18 54 37.9	2008 WP_{65}			691
2008 WH_{163}	2008 11 24.16215	02 29 18.66	+18 54 29.9	2008 WP_{65}			691
2008 WJ_{163}	*2008 11 24.28556	03 15 05.50	+15 07 02.1	2008 WC_{88}	21.1	V	G96
2008 WJ_{163}	2008 11 24.29110	03 15 05.18	+15 07 00.4	2008 WC_{88}	21.2	V	G96
2008 WJ_{163}	2008 11 24.29664	03 15 04.86	+15 06 58.4	2008 WC_{88}	21.6	V	G96
2008 WJ_{163}	2008 11 24.30221	03 15 04.53	+15 06 56.4	2008 WC_{88}	21.3	V	G96
2008 WK_{163}	*2008 11 27.32162	05 40 52.83	+01 04 20.1	2008 WA_{96}	19.9	V	I08
2008 WK_{163}	2008 11 27.32421	05 40 52.74	+01 04 19.8	2008 WA_{96}	20.0	V	I08
2008 WK_{163}	2008 11 27.32681	05 40 52.65	+01 04 20.7	2008 WA_{96}	20.1	V	I08
2008 WK_{163}	2008 11 27.32939	05 40 52.50	+01 04 20.6	2008 WA_{96}	20.7	V	I08
2008 WL_{163}	*2008 11 30.39153	04 56 43.65	+23 32 19.4	2008 YA_{12}	20.7	V	G96
2008 WL_{163}	2008 11 30.39718	04 56 43.33	+23 32 18.5	2008 YA_{12}	21.1	V	G96
2008 WL_{163}	2008 11 30.40279	04 56 43.00	+23 32 17.8	2008 YA_{12}	21.2	V	G96
2008 WL_{163}	2008 11 30.40847	04 56 42.64	+23 32 16.6	2008 YA_{12}	20.5	V	G96
2008 XT_{68}	*2008 12 03.34716	03 26 22.05	+29 02 47.8	2008 UP_{312}	20.7	V	G96
2008 XT_{68}	2008 12 03.35266	03 26 21.69	+29 02 46.6	2008 UP_{312}	20.8	V	G96
2008 XT_{68}	2008 12 03.35825	03 26 21.30	+29 02 45.1	2008 UP_{312}	20.8	V	G96
2008 XT_{68}	2008 12 03.36377	03 26 20.94	+29 02 44.0	2008 UP_{312}	20.6	V	G96
2008 XU_{68}	*2008 12 01.31321	04 44 03.80	+13 50 41.9	2008 VZ_{34}	19.7	V	G96
2008 XU_{68}	2008 12 01.31993	04 44 03.40	+13 50 40.4	2008 VZ_{34}	20.0	V	G96
2008 XU_{68}	2008 12 01.32668	04 44 03.01	+13 50 39.1	2008 VZ_{34}	19.8	V	G96
2008 XU_{68}	2008 12 01.33345	04 44 02.61	+13 50 37.7	2008 VZ_{34}	20.4	V	G96
2008 XV_{68}	*2008 12 03.37234	04 15 41.97	+10 31 40.6	2008 WN_{131}	19.3	V	703
2008 XV_{68}	2008 12 03.37814	04 15 41.65	+10 31 41.8	2008 WN_{131}	19.4	V	703
2008 XV_{68}	2008 12 03.38393	04 15 41.25	+10 31 44.6	2008 WN_{131}	19.3	V	703
2008 XV_{68}	2008 12 03.38977	04 15 40.96	+10 31 45.1	2008 WN_{131}	19.3	V	703
2008 XV_{68}	2008 12 22.27664	04 00 20.26	+12 13 03.1	2008 WN_{131}	20.3	V	703
2008 XV_{68}	2008 12 22.28257	04 00 20.05	+12 13 05.1	2008 WN_{131}	21.0	V	703
2008 XV_{68}	2008 12 22.28855	04 00 19.94	+12 13 06.9	2008 WN_{131}	20.2	V	703
2008 XV_{68}	2008 12 22.29465	04 00 19.69	+12 13 09.2	2008 WN_{131}	21.0	V	703
2008 XW_{68}	*2008 12 06.22769	04 32 25.45	+27 11 13.0	2008 XO_{33}			691
2008 XW_{68}	2008 12 06.24540	04 32 24.32	+27 11 10.0	2008 XO_{33}			691
2008 XW_{68}	2008 12 06.27001	04 32 22.79	+27 11 04.7	2008 XO_{33}			691
2008 XX_{68}	*2008 12 06.24029	04 37 53.70	+25 12 59.9	2008 XB_{36}			691
2008 XX_{68}	2008 12 06.26491	04 37 52.27	+25 12 57.3	2008 XB_{36}			691
2008 XX_{68}	2008 12 06.28261	04 37 51.12	+25 12 54.8	2008 XB_{36}			691
2008 YZ_{193}	*2008 12 21.34287	04 41 25.15	+23 40 58.6	2008 XS_{54}	20.6	V	G96
2008 YZ_{193}	2008 12 21.34787	04 41 24.86	+23 40 58.0	2008 XS_{54}	20.8	V	G96
2008 YZ_{193}	2008 12 21.35279	04 41 24.57	+23 40 56.9	2008 XS_{54}	21.7	V	G96
2008 YZ_{193}	2008 12 21.35786	04 41 24.32	+23 40 56.1	2008 XS_{54}	21.9	V	G96
2008 YZ_{193}	2008 12 21.37338	04 41 23.53	+23 40 53.6	2008 XS_{54}	20.8	V	G96
2008 YZ_{193}	2008 12 21.38080	04 41 23.13	+23 40 51.4	2008 XS_{54}	20.8	V	G96
2008 YZ_{193}	2008 12 21.38818	04 41 22.74	+23 40 50.5	2008 XS_{54}	20.9	V	G96
2008 YZ_{193}	2008 12 21.39556	04 41 22.34	+23 40 48.6	2008 XS_{54}	21.2	V	G96
2008 YA_{194}	*2008 12 29.46209	09 01 49.95	+19 30 26.9	2009 CE_{46}	21.8	V	691
2008 YA_{194}	2008 12 29.48020	09 01 49.26	+19 30 26.6	2009 CE_{46}	21.3	V	691
2008 YA_{194}	2008 12 29.49830	09 01 48.62	+19 30 26.3	2009 CE_{46}	21.4	V	691
2009 AD_{64}	*2009 01 04.32673	05 46 19.40	+21 58 07.6	2008 YF_{31}	20.2	C	H06
2009 AD_{64}	2009 01 04.33202	05 46 19.09	+21 58 06.8	2008 YF_{31}	20.3	C	H06
2009 AD_{64}	2009 01 04.33727	05 46 18.76	+21 58 05.5	2008 YF_{31}	20.7	C	H06
2009 AD_{64}	2009 01 04.34253	05 46 18.47	+21 58 04.3	2008 YF_{31}	20.3	C	H06
2009 AE_{64}	*2009 01 02.12147	06 39 59.50	+23 22 16.4	2008 YY_{85}	20.8	V	691
2009 AE_{64}	2009 01 02.13964	06 39 58.08	+23 22 14.1	2008 YY_{85}	20.9	V	691
2009 AE_{64}	2009 01 02.15781	06 39 56.72	+23 22 11.5	2008 YY_{85}	20.8	V	691
2009 AE_{64}	2009 01 02.17114	06 39 55.66	+23 22 10.0	2008 YY_{85}	21.1	V	691
2009 AE_{64}	2009 01 02.18931	06 39 54.29	+23 22 07.9	2008 YY_{85}	20.7	V	691
2009 AE_{64}	2009 01 02.20772	06 39 52.94	+23 22 05.2	2008 YY_{85}	20.8	V	691
2009 AF_{64}	*2009 01 02.42425	08 24 58.64	+22 33 38.9	2008 YB_{125}	22.4	V	G96
2009 AF_{64}	2009 01 02.43338	08 24 58.17	+22 33 41.8	2008 YB_{125}	22.7	V	G96
2009 AF_{64}	2009 01 02.44252	08 24 57.78	+22 33 44.0	2008 YB_{125}	22.4	V	G96
2009 AF_{64}	2009 01 02.45168	08 24 57.38	+22 33 46.9	2008 YB_{125}	22.4	V	G96
2009 AG_{64}	*2009 01 02.31110	07 42 00.46	+25 16 14.4	2008 YB_{161}	20.9	V	G96
2009 AG_{64}	2009 01 02.31896	07 42 00.00	+25 16 15.4	2008 YB_{161}	20.9	V	G96
2009 AG_{64}	2009 01 02.32692	07 41 59.53	+25 16 16.0	2008 YB_{161}	21.1	V	G96
2009 AG_{64}	2009 01 02.33479	07 41 59.06	+25 16 17.1	2008 YB_{161}	21.1	V	G96
2009 AH_{64}	*2009 01 15.14680	06 49 37.50	+25 38 08.9	2008 YJ_{161}	21.3	V	691
2009 AH_{64}	2009 01 15.16317	06 49 36.44	+25 38 11.5	2008 YJ_{161}	21.3	V	691
2009 AH_{64}	2009 01 15.17954	06 49 35.34	+25 38 14.2	2008 YJ_{161}	21.2	V	691
2009 AJ_{64}	*2009 01 01.49333	10 18 19.26	+07 55 05.8	2009 BD_{123}	19.7	V	G96
2009 AJ_{64}	2009 01 01.50051	10 18 19.26	+07 55 05.9	2009 BD_{123}	19.6	V	G96
2009 AJ_{64}	2009 01 01.50766	10 18 19.29	+07 55 05.4	2009 BD_{123}	19.5	V	G96
2009 BH_{213}	*2009 01 16.34240	07 38 57.51	+16 19 42.6	2008 YH_{77}	20.7	V	G96
2009 BH_{213}	2009 01 16.34763	07 38 57.26	+16 19 43.2	2008 YH_{77}	20.3	V	G96
2009 BH_{213}	2009 01 16.35281	07 38 56.90	+16 19 46.0	2008 YH_{77}	21.1	V	G96
2009 BH_{213}	2009 01 16.35787	07 38 56.65	+16 19 47.6	2008 YH_{77}	20.8	V	G96
2009 BJ_{213}	*2009 01 20.28008	07 00 06.48	+26 32 49.9	2008 YR_{81}	20.7	V	G96
2009 BJ_{213}	2009 01 20.28979	07 00 05.90	+26 32 50.6	2008 YR_{81}	21.2	V	G96
2009 BJ_{213}	2009 01 20.29947	07 00 05.32	+26 32 50.8	2008 YR_{81}	20.9	V	G96
2009 BK_{213}	*2009 01 17.40998	08 27 26.06	+16 09 50.7	2008 YV_{144}	21.4	V	G96
2009 BK_{213}	2009 01 17.41642	08 27 25.70	+16 09 53.2	2008 YV_{144}	21.5	V	G96
2009 BK_{213}	2009 01 17.42287	08 27 25.45	+16 09 55.3	2008 YV_{144}	21.1	V	G96
2009 BK_{213}	2009 01 17.42942	08 27 25.09	+16 09 57.5	2008 YV_{144}	21.3	V	G96
2009 BL_{213}	*2009 01 18.29224	07 22 17.32	+19 26 43.5	2008 YH_{163}	21.0	V	G96
2009 BL_{213}	2009 01 18.29803	07 22 16.93	+19 26 43.7	2008 YH_{163}	20.8	V	G96
2009 BL_{213}	2009 01 18.30385	07 22 16.57	+19 26 44.7	2008 YH_{163}	20.7	V	G96

2009 BM_{213}	*2009 01 26.16771	08 06 10.36	+26 56 45.0	2008 YJ_{169}	20.2	V	G96
2009 BM_{213}	2009 01 26.17308	08 06 10.04	+26 56 46.3	2008 YJ_{169}	20.2	V	G96
2009 BM_{213}	2009 01 26.17861	08 06 09.72	+26 56 48.0	2008 YJ_{169}	20.1	V	G96
2009 BM_{213}	2009 01 26.18413	08 06 09.36	+26 56 48.5	2008 YJ_{169}	20.2	V	G96
2009 BM_{213}	2009 01 26.19509	08 06 08.71	+26 56 51.7	2008 YJ_{169}	20.1	V	G96
2009 BM_{213}	2009 01 26.20154	08 06 08.35	+26 56 53.0	2008 YJ_{169}	20.1	V	G96
2009 BM_{213}	2009 01 26.20804	08 06 07.95	+26 56 54.7	2008 YJ_{169}	20.2	V	G96
2009 BM_{213}	2009 01 26.21450	08 06 07.56	+26 56 56.1	2008 YJ_{169}	20.1	V	G96
2009 BM_{213}	2009 02 03.19309	07 58 54.73	+27 22 10.2	2008 YJ_{169}	20.4	V	G96
2009 BM_{213}	2009 02 03.19867	07 58 54.44	+27 22 11.3	2008 YJ_{169}	20.4	V	G96
2009 BM_{213}	2009 02 03.20421	07 58 54.12	+27 22 12.2	2008 YJ_{169}	20.5	V	G96
2009 BM_{213}	2009 02 03.20972	07 58 53.86	+27 22 12.7	2008 YJ_{169}	20.5	V	G96
2009 BN_{213}	*2009 01 16.80168	07 00 16.36	+30 08 22.6	2009 AW_{16}	19.7	V	104
2009 BN_{213}	2009 01 16.81229	07 00 15.76	+30 08 21.8	2009 AW_{16}	19.6	V	104
2009 BN_{213}	2009 01 16.85694	07 00 12.90	+30 08 20.4	2009 AW_{16}	19.3	V	104
2009 BO_{213}	*2009 01 25.26892	10 07 59.98	+10 14 24.6	2009 DF_{37}			291
2009 BO_{213}	2009 01 25.27471	10 07 59.75	+10 14 24.6	2009 DF_{37}			291
2009 BO_{213}	2009 01 25.28017	10 07 59.49	+10 14 25.1	2009 DF_{37}			291
2009 BP_{213}	*2009 01 31.36711	10 57 55.36	+19 25 32.4	2009 EJ_{11}	21.2	V	G96
2009 BP_{213}	2009 01 31.37268	10 57 55.18	+19 25 35.5	2009 EJ_{11}	20.9	V	G96
2009 BP_{213}	2009 01 31.37828	10 57 55.00	+19 25 37.6	2009 EJ_{11}	20.8	V	G96
2009 BP_{213}	2009 01 31.38385	10 57 54.82	+19 25 39.5	2009 EJ_{11}	21.5	V	G96
2009 CJ_{78}	*2009 02 14.32502	09 14 09.09	+15 40 32.6	2009 BK_{180}	20.4	V	G96
2009 CJ_{78}	2009 02 14.33242	09 14 08.66	+15 40 32.9	2009 BK_{180}	20.3	V	G96
2009 CJ_{78}	2009 02 14.33977	09 14 08.26	+15 40 33.3	2009 BK_{180}	20.4	V	G96
2009 CJ_{78}	2009 02 14.34706	09 14 07.87	+15 40 33.7	2009 BK_{180}	20.1	V	G96
2009 CK_{78}	*2009 02 04.29933	09 35 46.50	+07 32 16.2	2009 CP_{19}	21.3	V	G96
2009 CK_{78}	2009 02 04.30458	09 35 46.24	+07 32 17.4	2009 CP_{19}	21.4	V	G96
2009 CK_{78}	2009 02 04.30991	09 35 45.96	+07 32 17.7	2009 CP_{19}	21.3	V	G96
2009 CK_{78}	2009 02 04.31498	09 35 45.74	+07 32 19.4	2009 CP_{19}	22.3	V	G96
2009 CL_{78}	*2009 02 14.47216	11 33 18.97	+09 54 32.7	2009 ES_{8}	19.9	V	G96
2009 CL_{78}	2009 02 14.47944	11 33 18.75	+09 54 36.0	2009 ES_{8}	20.0	V	G96
2009 CL_{78}	2009 02 14.48686	11 33 18.50	+09 54 38.4	2009 ES_{8}	20.1	V	G96
2009 CL_{78}	2009 02 14.49427	11 33 18.18	+09 54 41.0	2009 ES_{8}	19.9	V	G96
2009 CM_{78}	*2009 02 04.37990	11 35 39.91	+04 36 50.1	2009 EZ_{17}	19.8	V	G96
2009 CM_{78}	2009 02 04.38535	11 35 39.76	+04 36 52.0	2009 EZ_{17}	20.8	V	G96
2009 CM_{78}	2009 02 04.39082	11 35 39.66	+04 36 53.8	2009 EZ_{17}	21.0	V	G96
2009 CM_{78}	2009 02 04.39633	11 35 39.55	+04 36 55.3	2009 EZ_{17}	20.7	V	G96
2009 DA_{159}	*2009 02 21.31575	10 18 46.94	+12 20 06.9	2009 BQ_{48}	20.0	V	G96
2009 DA_{159}	2009 02 21.32543	10 18 46.33	+12 20 09.8	2009 BQ_{48}	19.9	V	G96
2009 DA_{159}	2009 02 21.33512	10 18 45.72	+12 20 12.9	2009 BQ_{48}	20.1	V	G96
2009 DA_{159}	2009 02 21.34488	10 18 45.10	+12 20 16.1	2009 BQ_{48}	20.1	V	G96
2009 DB_{159}	*2009 02 22.33721	10 55 54.16	+08 46 24.9	2009 BW_{186}	20.2		704
2009 DB_{159}	2009 02 22.36184	10 55 52.92	+08 46 37.3	2009 BW_{186}	20.1		704
2009 DB_{159}	2009 02 22.37338	10 55 52.42	+08 46 43.7	2009 BW_{186}	20.2		704
2009 DB_{159}	2009 02 26.28715	10 52 50.80	+09 20 40.4	2009 BW_{186}	20.0	V	703
2009 DB_{159}	2009 02 26.29764	10 52 50.30	+09 20 46.2	2009 BW_{186}	19.7	V	703
2009 DB_{159}	2009 02 26.30801	10 52 49.76	+09 20 51.5	2009 BW_{186}	20.1	V	703
2009 DB_{159}	2009 02 26.31849	10 52 49.26	+09 20 57.3	2009 BW_{186}	20.1	V	703
2009 DC_{159}	*2009 02 27.37312	10 59 54.45	+07 18 33.5	2009 BZ_{186}	21.4	V	G96
2009 DC_{159}	2009 02 27.37996	10 59 54.16	+07 18 36.9	2009 BZ_{186}	21.5	V	G96
2009 DC_{159}	2009 02 27.38676	10 59 53.80	+07 18 38.8	2009 BZ_{186}	21.2	V	G96
2009 DC_{159}	2009 02 27.39360	10 59 53.55	+07 18 42.1	2009 BZ_{186}	21.6	V	G96
2009 DC_{159}	2009 03 03.27979	10 57 03.88	+07 45 53.6	2009 BZ_{186}	21.4	V	G96
2009 DC_{159}	2009 03 03.28391	10 57 03.74	+07 45 54.7	2009 BZ_{186}	20.8	V	G96
2009 DC_{159}	2009 03 03.28802	10 57 03.56	+07 45 57.1	2009 BZ_{186}	21.1	V	G96
2009 DC_{159}	2009 03 03.29213	10 57 03.34	+07 45 58.4	2009 BZ_{186}	21.6	V	G96
2009 DD_{159}	*2009 02 20.18127	08 25 57.93	+24 23 07.7	2009 CP_{46}	21.3	V	691
2009 DD_{159}	2009 02 20.19738	08 25 57.26	+24 23 08.2	2009 CP_{46}	21.0	V	691
2009 DD_{159}	2009 02 20.21348	08 25 56.55	+24 23 09.1	2009 CP_{46}	20.7	V	691
2009 DE_{159}	*2009 02 27.29734	10 37 22.58	+14 38 51.1	2009 CX_{63}	20.6	V	703
2009 DE_{159}	2009 02 27.30754	10 37 22.00	+14 38 56.4	2009 CX_{63}	20.4	V	703
2009 DE_{159}	2009 02 27.31774	10 37 21.43	+14 38 59.4	2009 CX_{63}	21.0	V	703
2009 DE_{159}	2009 02 27.32783	10 37 20.82	+14 39 04.3	2009 CX_{63}	20.6	V	703
2009 DF_{159}	*2009 02 20.28326	09 07 12.18	+13 06 31.1	2009 CU_{64}	21.0	V	G96
2009 DF_{159}	2009 02 20.29049	09 07 11.85	+13 06 33.3	2009 CU_{64}	21.3	V	G96
2009 DF_{159}	2009 02 20.29779	09 07 11.53	+13 06 34.3	2009 CU_{64}	21.2	V	G96
2009 DF_{159}	2009 02 20.30517	09 07 11.17	+13 06 36.0	2009 CU_{64}	21.5	V	G96
2009 DF_{159}	2009 03 01.23563	09 01 45.69	+13 30 17.3	2009 CU_{64}	22.1	V	G96
2009 DF_{159}	2009 03 01.24247	09 01 45.44	+13 30 18.0	2009 CU_{64}	22.2	V	G96
2009 DF_{159}	2009 03 01.24931	09 01 45.12	+13 30 19.2	2009 CU_{64}	22.4	V	G96
2009 DF_{159}	2009 03 01.25615	09 01 44.90	+13 30 20.2	2009 CU_{64}	21.9	V	G96
2009 DG_{159}	*2009 02 22.10031	08 45 05.42	+16 29 41.4	2009 DW_{20}			691
2009 DG_{159}	2009 02 22.12009	08 45 04.48	+16 29 45.3	2009 DW_{20}			691
2009 DG_{159}	2009 02 22.13961	08 45 03.58	+16 29 49.1	2009 DW_{20}			691
2009 DH_{159}	*2009 02 24.91122	08 48 55.84	+11 55 22.2	2009 DE_{43}	20.6		A77
2009 DH_{159}	2009 02 24.93541	08 48 54.70	+11 55 21.2	2009 DE_{43}	20.3		A77
2009 DH_{159}	2009 02 24.95963	08 48 53.47	+11 55 19.0	2009 DE_{43}	20.4		A77
2009 DJ_{159}	*2009 02 25.03228	10 09 53.25	+10 45 57.6	2009 DF_{43}	20.2		A77
2009 DJ_{159}	2009 02 25.08064	10 09 50.08	+10 46 00.8	2009 DF_{43}	20.0		A77
2009 DJ_{159}	2009 02 27.91082	10 06 53.42	+10 49 01.8	2009 DF_{43}	20.2		A77
2009 DJ_{159}	2009 02 27.94314	10 06 51.33	+10 49 02.4	2009 DF_{43}	20.2		A77
2009 DJ_{159}	2009 02 27.97542	10 06 49.23	+10 49 05.3	2009 DF_{43}	20.4		A77
2009 DK_{159}	*2009 02 28.21592	10 47 25.22	+10 23 03.5	2009 DQ_{85}			291
2009 DK_{159}	2009 02 28.22313	10 47 24.79	+10 23 06.6	2009 DQ_{85}			291
2009 DK_{159}	2009 02 28.23034	10 47 24.38	+10 23 10.0	2009 DQ_{85}			291
2009 DL_{159}	*2009 02 27.33792	10 36 38.01	+07 19 35.8	2009 DM_{140}	21.6	V	G96
2009 DL_{159}	2009 02 27.34204	10 36 37.80	+07 19 37.5	2009 DM_{140}	21.0	V	G96
2009 DL_{159}	2009 02 27.34617	10 36 37.62	+07 19 38.7	2009 DM_{140}	21.3	V	G96
2009 DL_{159}	2009 02 27.35030	10 36 37.36	+07 19 40.3	2009 DM_{140}	22.1	V	G96
2009 DM_{159}	*2009 02 19.34988	10 59 12.01	−05 22 14.0	2009 FE_{60}	20.3	V	703
2009 DM_{159}	2009 02 19.35744	10 59 11.76	−05 22 12.7	2009 FE_{60}	19.4	V	703
2009 DM_{159}	2009 02 19.36487	10 59 11.32	−05 22 10.6	2009 FE_{60}	20.0	V	703
2009 DM_{159}	2009 02 19.37242	10 59 10.93	−05 22 10.6	2009 FE_{60}	19.8	V	703
2009 EB_{42}	*2009 03 01.23631	08 59 02.65	+12 41 07.5	2009 AB_{50}	21.2	V	G96
2009 EB_{42}	2009 03 01.24315	08 59 02.40	+12 41 08.6	2009 AB_{50}	21.8	V	G96
2009 EB_{42}	2009 03 01.24999	08 59 02.11	+12 41 09.6	2009 AB_{50}	21.3	V	G96
2009 EB_{42}	2009 03 01.25684	08 59 01.89	+12 41 10.8	2009 AB_{50}	22.5	V	G96
2009 EC_{42}	*2009 03 02.26837	10 24 06.62	+19 39 19.9	2009 BT_{128}	21.0	V	G96
2009 EC_{42}	2009 03 02.27606	10 24 06.22	+19 39 21.6	2009 BT_{128}	22.2	V	G96
2009 EC_{42}	2009 03 02.28382	10 24 05.79	+19 39 23.5	2009 BT_{128}	21.8	V	G96
2009 EC_{42}	2009 03 02.29155	10 24 05.32	+19 39 24.3	2009 BT_{128}	22.0	V	G96
2009 ED_{42}	*2009 03 01.17203	10 22 46.70	+05 23 25.7	2009 BZ_{147}			691
2009 ED_{42}	2009 03 01.18966	10 22 45.62	+05 23 29.0	2009 BZ_{147}			691
2009 ED_{42}	2009 03 01.20730	10 22 44.56	+05 23 32.3	2009 BZ_{147}			691
2009 EE_{42}	*2009 03 01.23972	08 56 06.79	+14 55 07.4	2009 CF_{1}	21.3	V	G96

2009 EE_{42}	2009 03 01.24657	08 56 06.50	+14 55 07.9	2009 CF_{1}	21.2	V	G96
2009 EE_{42}	2009 03 01.25341	08 56 06.21	+14 55 08.9	2009 CF_{1}	21.2	V	G96
2009 EF_{42}	*2009 03 03.45177	12 03 15.51	+00 57 56.6	2009 EP_{7}	21.8	V	G96
2009 EF_{42}	2009 03 03.45581	12 03 15.30	+00 57 57.5	2009 EP_{7}	21.2	V	G96
2009 EF_{42}	2009 03 03.46403	12 03 14.97	+00 57 59.8	2009 EP_{7}	22.2	V	G96
2009 EF_{42}	2009 03 03.46814	12 03 14.79	+00 58 01.0	2009 EP_{7}	21.9	V	G96
2009 EG_{42}	*2009 03 03.11268	08 27 31.22	+16 25 18.9	2009 EJ_{9}	20.5	V	691
2009 EG_{42}	2009 03 03.12927	08 27 30.63	+16 25 19.2	2009 EJ_{9}	20.5	V	691
2009 EG_{42}	2009 03 03.14238	08 27 30.17	+16 25 19.9	2009 EJ_{9}	20.6	V	691
2009 EH_{42}	*2009 03 03.11268	08 27 33.45	+16 24 30.4	2009 EK_{9}	21.9	V	691
2009 EH_{42}	2009 03 03.12927	08 27 32.96	+16 24 30.3	2009 EK_{9}	21.6	V	691
2009 EH_{42}	2009 03 03.14238	08 27 32.50	+16 24 30.0	2009 EK_{9}	21.4	V	691
2009 FN_{94}	*2009 03 26.29666	11 25 37.88	+06 33 04.9	2009 DT_{61}	21.6	V	G96
2009 FN_{94}	2009 03 26.30481	11 25 37.41	+06 33 06.3	2009 DT_{61}	21.9	V	G96
2009 FN_{94}	2009 03 26.31288	11 25 37.02	+06 33 07.8	2009 DT_{61}	21.7	V	G96
2009 FN_{94}	2009 03 26.32111	11 25 36.55	+06 33 09.3	2009 DT_{61}	21.0	V	G96
2009 FO_{94}	*2009 03 27.32871	12 21 30.45	+03 29 22.2	2009 DX_{94}	22.2	V	G96
2009 FO_{94}	2009 03 27.33752	12 21 29.91	+03 29 24.2	2009 DX_{94}	21.2	V	G96
2009 FO_{94}	2009 03 27.34633	12 21 29.37	+03 29 26.0	2009 DX_{94}	20.8	V	G96
2009 FO_{94}	2009 03 27.35505	12 21 28.83	+03 29 28.1	2009 DX_{94}	20.5	V	G96
2009 FP_{94}	*2009 03 26.36039	12 04 45.76	+07 47 10.3	2009 DO_{107}	20.7	V	F84
2009 FP_{94}	2009 03 26.47660	12 04 40.17	+07 47 32.0	2009 DO_{107}	21.1	V	F84
2009 FQ_{94}	*2009 03 17.12170	10 56 00.85	+14 07 17.3	2009 DU_{131}	21.6	V	691
2009 FQ_{94}	2009 03 17.13498	10 56 00.22	+14 07 21.3	2009 DU_{131}	21.1	V	691
2009 FQ_{94}	2009 03 17.14574	10 55 59.64	+14 07 23.8	2009 DU_{131}	21.0	V	691
2009 GB_{10}	*2009 04 02.21384	11 19 22.72	+01 55 20.3	2009 DK_{92}	20.3	V	G96
2009 GB_{10}	2009 04 02.22200	11 19 22.51	+01 55 24.4	2009 DK_{92}	21.2	V	G96
2009 GB_{10}	2009 04 02.23012	11 19 22.15	+01 55 26.7	2009 DK_{92}	20.1	V	G96
2009 GB_{10}	2009 04 02.23827	11 19 21.86	+01 55 31.0	2009 DK_{92}	20.7	V	G96
2009 GC_{10}	*2009 04 03.25826	11 46 57.03	+01 34 14.5	2009 EA_{27}	20.4	V	G96
2009 GC_{10}	2009 04 03.26682	11 46 56.67	+01 34 18.6	2009 EA_{27}	21.0	V	G96
2009 GC_{10}	2009 04 03.27531	11 46 56.31	+01 34 22.3	2009 EA_{27}	20.6	V	G96
2009 GC_{10}	2009 04 03.28384	11 46 56.02	+01 34 27.4	2009 EA_{27}	21.5	V	G96
2009 GD_{10}	*2009 04 02.48461	12 48 44.70	−09 31 52.6	2009 GD	20.6	R	474
2009 GD_{10}	2009 04 02.48750	12 48 44.50	−09 31 51.8	2009 GD	20.6	R	474
2009 GD_{10}	2009 04 02.49028	12 48 44.34	−09 31 51.1	2009 GD	20.6	R	474
2009 GD_{10}	2009 04 02.49306	12 48 44.17	−09 31 50.7	2009 GD	20.7	R	474
2009 HJ_{126}	*2009 04 18.22613	13 51 30.88	−10 21 04.9	2009 FH_{59}	20.8	V	691
2009 HJ_{126}	2009 04 18.24381	13 51 29.99	−10 20 57.9	2009 FH_{59}	20.8	V	691
2009 HJ_{126}	2009 04 18.26150	13 51 29.10	−10 20 50.9	2009 FH_{59}	21.3	V	691
2009 HK_{126}	*2009 04 27.29879	14 09 13.42	−11 49 43.2	2009 HG_{61}	21.0	V	G96
2009 HK_{126}	2009 04 27.30602	14 09 13.10	−11 49 40.8	2009 HG_{61}	21.3	V	G96
2009 HK_{126}	2009 04 27.31317	14 09 12.74	−11 49 38.9	2009 HG_{61}	21.6	V	G96
2009 HK_{126}	2009 04 27.32032	14 09 12.42	−11 49 37.5	2009 HG_{61}	21.0	V	G96
2009 HL_{126}	*2009 04 27.38806	14 17 04.99	−09 47 31.9	2009 HA_{63}	20.6	V	G96
2009 HL_{126}	2009 04 27.39128	14 17 04.84	−09 47 31.7	2009 HA_{63}	20.9	V	G96
2009 HL_{126}	2009 04 27.39289	14 17 04.70	−09 47 30.5	2009 HA_{63}	20.6	V	G96
2009 HM_{126}	*2009 04 28.17579	11 58 14.59	+00 42 06.0	2009 HU_{68}	21.6	V	G96
2009 HM_{126}	2009 04 28.18128	11 58 14.44	+00 42 06.6	2009 HU_{68}	21.3	V	G96
2009 HM_{126}	2009 04 28.18678	11 58 14.34	+00 42 07.6	2009 HU_{68}	21.3	V	G96
2009 HM_{126}	2009 04 28.19221	11 58 14.19	+00 42 08.4	2009 HU_{68}	22.3	V	G96
2009 HN_{126}	*2009 04 29.34983	15 36 07.33	−08 17 55.6	2009 HF_{75}			291
2009 HN_{126}	2009 04 29.35521	15 36 07.04	−08 17 53.7	2009 HF_{75}			291
2009 HN_{126}	2009 04 29.36053	15 36 06.76	−08 17 51.3	2009 HF_{75}			291
2009 KW_{43}	*2009 05 30.26723	14 51 29.23	−14 19 00.9	2020 FR_{35}	21.8	V	G96
2009 KW_{43}	2009 05 30.27551	14 51 28.83	−14 18 59.3	2020 FR_{35}	20.9	V	G96
2009 KW_{43}	2009 05 30.28387	14 51 28.51	−14 18 57.1	2020 FR_{35}	21.1	V	G96
2009 KW_{43}	2009 05 30.29218	14 51 28.11	−14 18 54.7	2020 FR_{35}	20.2	V	G96
2009 KX_{43}	*2009 05 24.99009	16 01 52.91	−23 27 05.3	2009 HF_{95}	19.3	C	J47
2009 KX_{43}	2009 05 24.99542	16 01 52.51	−23 27 06.6	2009 HF_{95}	19.7	C	J47
2009 KY_{43}	*2009 05 16.35205	16 28 07.71	−12 40 16.2	2009 JP_{17}	19.9	V	G96
2009 KY_{43}	2009 05 16.36036	16 28 07.24	−12 40 16.5	2009 JP_{17}	19.7	V	G96
2009 KY_{43}	2009 05 16.36947	16 28 06.70	−12 40 16.4	2009 JP_{17}	19.7	V	G96
2009 KY_{43}	2009 05 30.34807	16 14 49.02	−12 35 51.8	2009 JP_{17}	20.0	V	G96
2009 KY_{43}	2009 05 30.35711	16 14 48.51	−12 35 52.9	2009 JP_{17}	20.0	V	G96
2009 KY_{43}	2009 05 30.36608	16 14 47.94	−12 35 53.0	2009 JP_{17}	19.8	V	G96
2009 KY_{43}	2009 05 30.37512	16 14 47.43	−12 35 53.3	2009 JP_{17}	20.0	V	G96
2009 KY_{43}	2009 05 30.39470	16 14 46.24	−12 35 54.0	2009 JP_{17}	19.8	V	G96
2009 KY_{43}	2009 05 30.39925	16 14 45.96	−12 35 53.9	2009 JP_{17}	20.3	V	G96
2009 KY_{43}	2009 05 30.40377	16 14 45.70	−12 35 54.3	2009 JP_{17}	20.0	V	G96
2009 KZ_{43}	*2009 05 16.34994	16 30 14.11	−13 20 29.0	2009 JS_{17}	20.9	V	G96
2009 KZ_{43}	2009 05 16.35835	16 30 13.53	−13 20 26.9	2009 JS_{17}	20.9	V	G96
2009 KZ_{43}	2009 05 16.36736	16 30 13.06	−13 20 23.9	2009 JS_{17}	20.6	V	G96
2009 KZ_{43}	2009 05 16.37572	16 30 12.60	−13 20 22.0	2009 JS_{17}	20.0	V	G96
2009 KZ_{43}	2009 05 30.34807	16 16 12.36	−12 22 56.5	2009 JS_{17}	20.2	V	G96
2009 KZ_{43}	2009 05 30.35711	16 16 11.78	−12 22 55.0	2009 JS_{17}	20.7	V	G96
2009 KZ_{43}	2009 05 30.36608	16 16 11.13	−12 22 52.9	2009 JS_{17}	20.2	V	G96
2009 KZ_{43}	2009 05 30.37512	16 16 10.56	−12 22 51.1	2009 JS_{17}	20.4	V	G96
2009 KZ_{43}	2009 05 30.39470	16 16 09.26	−12 22 46.4	2009 JS_{17}	20.5	V	G96
2009 KZ_{43}	2009 05 30.39925	16 16 08.97	−12 22 45.6	2009 JS_{17}	20.4	V	G96
2009 KZ_{43}	2009 05 30.40377	16 16 08.65	−12 22 44.9	2009 JS_{17}	20.5	V	G96
2009 KZ_{43}	2009 05 30.40822	16 16 08.40	−12 22 43.6	2009 JS_{17}	20.4	V	G96
2009 OV_{29}	*2009 07 28.32747	22 15 08.04	−16 17 40.1	2009 OM_{7}			291
2009 OV_{29}	2009 07 28.33658	22 15 07.69	−16 17 42.3	2009 OM_{7}			291
2009 OV_{29}	2009 07 28.34544	22 15 07.39	−16 17 44.8	2009 OM_{7}			291
2009 QJ_{79}	*2009 08 27.26216	20 14 04.94	−22 17 54.6	2009 OE_{7}	21.2	R	H11
2009 QJ_{79}	2009 08 27.26943	20 14 04.74	−22 17 55.3	2009 OE_{7}	21.5	R	H11
2009 QK_{79}	*2009 08 28.33329	23 59 50.64	+10 10 48.3	2009 RT_{4}	19.7	V	703
2009 QK_{79}	2009 08 28.33858	23 59 50.42	+10 10 48.5	2009 RT_{4}	19.4	V	703
2009 QK_{79}	2009 08 28.34395	23 59 50.20	+10 10 50.5	2009 RT_{4}	19.5	V	703
2009 QK_{79}	2009 08 28.34926	23 59 50.06	+10 10 51.9	2009 RT_{4}	20.3	V	703
2009 QL_{79}	*2009 08 28.30401	23 27 39.28	−01 08 06.6	2009 SE_{153}	20.6	V	691
2009 QL_{79}	2009 08 28.31926	23 27 38.53	−01 08 09.4	2009 SE_{153}	20.7	V	691
2009 QL_{79}	2009 08 28.33450	23 27 37.77	−01 08 12.5	2009 SE_{153}	20.5	V	691
2009 RF_{83}	*2009 09 12.33453	01 31 30.82	+06 26 21.4	2009 SD_{178}			691
2009 RF_{83}	2009 09 12.35211	01 31 30.36	+06 26 16.5	2009 SD_{178}			691
2009 RF_{83}	2009 09 12.36972	01 31 29.95	+06 26 12.4	2009 SD_{178}			691
2009 RG_{83}	*2009 09 15.39544	02 15 43.54	+11 15 22.0	2009 UP_{66}	21.8	V	691
2009 RG_{83}	2009 09 15.41312	02 15 43.24	+11 15 16.8	2009 UP_{66}	21.5	V	691
2009 RG_{83}	2009 09 15.43081	02 15 42.99	+11 15 11.9	2009 UP_{66}	21.2	V	691
2009 SP_{417}	*2009 09 21.31520	23 26 49.72	−04 07 55.8	2009 SS_{97}	21.1	V	291
2009 SP_{417}	2009 09 21.31894	23 26 49.55	−04 07 57.5	2009 SS_{97}	21.2	V	291
2009 SP_{417}	2009 09 21.32392	23 26 49.28	−04 07 59.4	2009 SS_{97}	21.2	V	291
2009 SQ_{417}	*2009 09 18.21072	23 09 31.32	−03 29 10.5	2009 QW_{54}	20.8	V	G96
2009 SQ_{417}	2009 09 18.21711	23 09 30.96	−03 29 13.2	2009 QW_{54}	21.1	V	G96
2009 SQ_{417}	2009 09 18.22340	23 09 30.67	−03 29 16.4	2009 QW_{54}	21.7	V	G96

2009 SQ_{417}	2009 09 18.22962	23 09 30.31	−03 29 19.0	2009 QW_{54}	21.1	V	G96
2009 SQ_{417}	2009 09 18.27060	23 09 28.18	−03 29 37.4	2009 QW_{54}	20.7	V	G96
2009 SQ_{417}	2009 09 18.27319	23 09 28.08	−03 29 37.9	2009 QW_{54}	19.9	V	G96
2009 SQ_{417}	2009 09 18.27593	23 09 27.90	−03 29 39.1	2009 QW_{54}	20.4	V	G96
2009 SQ_{417}	2009 09 18.27861	23 09 27.72	−03 29 40.5	2009 QW_{54}	21.1	V	G96
2009 SQ_{417}	2009 09 18.37808	23 09 22.39	−03 30 24.9	2009 QW_{54}	20.7	V	G96
2009 SQ_{417}	2009 09 18.38293	23 09 22.14	−03 30 27.3	2009 QW_{54}	20.5	V	G96
2009 SQ_{417}	2009 09 18.38778	23 09 21.88	−03 30 29.3	2009 QW_{54}	20.7	V	G96
2009 SQ_{417}	2009 09 18.39263	23 09 21.63	−03 30 31.7	2009 QW_{54}	21.2	V	G96
2009 SQ_{417}	2009 09 24.27148	23 04 30.36	−04 13 45.0	2009 QW_{54}	21.1	V	G96
2009 SQ_{417}	2009 09 24.27958	23 04 29.85	−04 13 48.8	2009 QW_{54}	21.5	V	G96
2009 SQ_{417}	2009 09 24.28777	23 04 29.38	−04 13 52.3	2009 QW_{54}	22.2	V	G96
2009 SQ_{417}	2009 09 24.29604	23 04 29.02	−04 13 55.8	2009 QW_{54}	20.7	V	G96
2009 SR_{417}	*2009 09 27.29662	01 09 18.62	+08 45 46.5	2009 RZ_{13}	20.6	V	691
2009 SR_{417}	2009 09 27.31429	01 09 17.62	+08 45 43.1	2009 RZ_{13}	20.4	V	691
2009 SR_{417}	2009 09 27.33192	01 09 16.61	+08 45 39.9	2009 RZ_{13}	20.5	V	691
2009 SS_{417}	*2009 09 16.29137	01 27 21.69	+07 40 16.3	2009 RD_{25}	21.7	V	691
2009 SS_{417}	2009 09 16.30897	01 27 21.15	+07 40 16.6	2009 RD_{25}	21.4	V	691
2009 SS_{417}	2009 09 16.32658	01 27 20.61	+07 40 17.0	2009 RD_{25}	21.3	V	691
2009 ST_{417}	*2009 09 26.25571	22 40 25.14	−15 24 04.0	2009 RZ_{66}	21.3	V	G96
2009 ST_{417}	2009 09 26.26190	22 40 24.92	−15 24 05.2	2009 RZ_{66}	21.6	V	G96
2009 ST_{417}	2009 09 26.26796	22 40 24.67	−15 24 05.1	2009 RZ_{66}	22.0	V	G96
2009 ST_{417}	2009 09 26.27418	22 40 24.45	−15 24 06.5	2009 RZ_{66}	21.7	V	G96
2009 SU_{417}	*2009 09 17.17438	22 50 17.88	−14 31 40.0	2009 SN_2	20.9	V	291
2009 SU_{417}	2009 09 17.17842	22 50 17.60	−14 31 40.2	2009 SN_2	20.7	V	291
2009 SU_{417}	2009 09 17.18229	22 50 17.45	−14 31 40.7	2009 SN_2	20.9	V	291
2009 SV_{417}	*2009 09 21.33079	23 09 57.57	+03 34 37.0	2009 SV_{27}	21.0	V	291
2009 SV_{417}	2009 09 21.33538	23 09 57.34	+03 34 35.8	2009 SV_{27}	21.1	V	291
2009 SV_{417}	2009 09 21.34042	23 09 57.06	+03 34 34.8	2009 SV_{27}	21.4	V	291
2009 SW_{417}	*2009 09 21.36271	01 33 05.49	+18 38 20.3	2009 SX_{55}	21.2	V	691
2009 SW_{417}	2009 09 21.38036	01 33 04.68	+18 38 22.0	2009 SX_{55}	21.1	V	691
2009 SW_{417}	2009 09 21.39803	01 33 03.85	+18 38 24.5	2009 SX_{55}	21.3	V	691
2009 SX_{417}	*2009 09 19.34219	00 19 44.86	+10 26 30.0	2009 SB_{92}	21.6	V	G96
2009 SX_{417}	2009 09 19.34390	00 19 44.76	+10 26 29.9	2009 SB_{92}	21.2	V	G96
2009 SX_{417}	2009 09 19.34559	00 19 44.68	+10 26 30.4	2009 SB_{92}	21.0	V	G96
2009 SX_{417}	2009 09 19.34728	00 19 44.54	+10 26 30.7	2009 SB_{92}	20.6	V	G96
2009 SY_{417}	*2009 09 20.33363	23 30 39.63	−03 17 17.0	2009 SM_{93}	21.7	V	G96
2009 SY_{417}	2009 09 20.33572	23 30 39.49	−03 17 17.7	2009 SM_{93}	21.8	V	G96
2009 SY_{417}	2009 09 20.33781	23 30 39.42	−03 17 18.8	2009 SM_{93}	22.3	V	G96
2009 SY_{417}	2009 09 20.33988	23 30 39.31	−03 17 19.3	2009 SM_{93}	22.6	V	G96
2009 SZ_{417}	*2009 09 24.28496	00 15 42.16	+01 52 08.6	2009 SV_{100}	19.9	R	809
2009 SZ_{417}	2009 09 24.28974	00 15 41.95	+01 52 06.2	2009 SV_{100}	19.9	R	809
2009 SZ_{417}	2009 09 24.29465	00 15 41.74	+01 52 03.8	2009 SV_{100}	19.6	R	809
2009 SZ_{417}	2009 09 24.29954	00 15 41.53	+01 52 01.5	2009 SV_{100}	19.9	R	809
2009 SZ_{417}	2009 09 24.30446	00 15 41.32	+01 51 59.1	2009 SV_{100}	19.8	R	809
2009 SA_{418}	*2009 09 23.12159	23 19 44.05	+04 24 24.5	2009 SL_{105}	21.3	V	691
2009 SA_{418}	2009 09 23.13923	23 19 43.22	+04 24 20.8	2009 SL_{105}	21.6	V	691
2009 SA_{418}	2009 09 23.15433	23 19 42.52	+04 24 17.2	2009 SL_{105}	20.9	V	691
2009 SB_{418}	*2009 09 23.33374	02 45 14.83	+13 17 05.9	2009 SH_{164}	21.3	V	291
2009 SB_{418}	2009 09 23.34423	02 45 14.71	+13 17 04.1	2009 SH_{164}	21.6	V	291
2009 SB_{418}	2009 09 23.35473	02 45 14.57	+13 17 01.9	2009 SH_{164}	21.2	V	291
2009 SC_{418}	*2009 09 26.41606	02 43 01.75	+15 32 11.7	2009 SR_{168}	19.9	C	H11
2009 SC_{418}	2009 09 26.42078	02 43 01.64	+15 32 11.3	2009 SR_{168}	20.2	C	H11
2009 SC_{418}	2009 09 26.42501	02 43 01.58	+15 32 10.4	2009 SR_{168}	19.8	C	H11
2009 SC_{418}	2009 09 26.43020	02 43 01.38	+15 32 09.5	2009 SR_{168}	19.8	C	H11
2009 SD_{418}	*2009 09 27.26397	00 13 25.82	−08 34 35.5	2009 SM_{228}	20.7	V	G96
2009 SD_{418}	2009 09 27.26535	00 13 25.75	−08 34 36.4	2009 SM_{228}	20.9	V	G96
2009 SD_{418}	2009 09 27.26674	00 13 25.71	−08 34 36.9	2009 SM_{228}	21.0	V	G96
2009 SD_{418}	2009 09 27.26819	00 13 25.64	−08 34 37.6	2009 SM_{228}	20.8	V	G96
2009 SE_{418}	*2009 09 27.23546	23 34 45.15	−00 31 37.2	2009 SX_{230}	21.0	V	703
2009 SE_{418}	2009 09 27.24351	23 34 44.90	−00 31 39.7	2009 SX_{230}	19.5	V	703
2009 SE_{418}	2009 09 27.25160	23 34 44.61	−00 31 43.2	2009 SX_{230}	20.2	V	703
2009 SE_{418}	2009 09 27.25966	23 34 44.18	−00 31 47.6	2009 SX_{230}	20.4	V	703
2009 SF_{418}	*2009 09 26.34617	01 49 55.58	+07 49 23.4	2009 SL_{249}	21.6	V	691
2009 SF_{418}	2009 09 26.36377	01 49 54.92	+07 49 19.9	2009 SL_{249}	21.4	V	691
2009 SF_{418}	2009 09 26.38138	01 49 54.21	+07 49 16.7	2009 SL_{249}	20.8	V	691
2009 SG_{418}	*2009 09 28.17536	00 47 54.81	+01 18 40.8	2009 SA_{258}	19.8	V	691
2009 SG_{418}	2009 09 28.19299	00 47 53.97	+01 18 35.9	2009 SA_{258}	19.6	V	691
2009 SG_{418}	2009 09 28.21060	00 47 53.09	+01 18 31.2	2009 SA_{258}	19.7	V	691
2009 SH_{418}	*2009 09 28.28061	00 03 39.02	−03 26 19.9	2009 SN_{259}	21.1	V	G96
2009 SH_{418}	2009 09 28.28748	00 03 38.62	−03 26 21.5	2009 SN_{259}	20.0	V	G96
2009 SH_{418}	2009 09 28.29463	00 03 38.34	−03 26 23.9	2009 SN_{259}	20.2	V	G96
2009 SH_{418}	2009 09 28.30173	00 03 37.98	−03 26 26.0	2009 SN_{259}	20.9	V	G96
2009 SJ_{418}	*2009 09 29.41315	02 43 45.15	+19 18 49.1	2009 SS_{267}	22.0	V	G96
2009 SJ_{418}	2009 09 29.42081	02 43 44.97	+19 18 48.1	2009 SS_{267}	21.1	V	G96
2009 SJ_{418}	2009 09 29.42843	02 43 44.72	+19 18 48.0	2009 SS_{267}	21.1	V	G96
2009 SK_{418}	*2009 09 28.18291	00 47 47.54	−00 34 00.0	2009 SR_{270}	21.5	V	691
2009 SK_{418}	2009 09 28.20052	00 47 46.65	−00 34 05.0	2009 SR_{270}	20.7	V	691
2009 SK_{418}	2009 09 28.21815	00 47 45.70	−00 34 08.7	2009 SR_{270}	20.7	V	691
2009 SL_{418}	*2009 09 29.23445	00 10 10.84	−08 26 03.2	2009 SP_{294}	20.7	V	291
2009 SL_{418}	2009 09 29.23832	00 10 10.68	−08 26 05.2	2009 SP_{294}	20.9	V	291
2009 SL_{418}	2009 09 29.24204	00 10 10.46	−08 26 06.9	2009 SP_{294}	20.7	V	291
2009 SM_{418}	*2009 09 27.28483	00 22 38.85	+05 41 51.7	2009 ST_{300}	21.7	V	G96
2009 SM_{418}	2009 09 27.29248	00 22 38.38	+05 41 50.0	2009 ST_{300}	21.6	V	G96
2009 SM_{418}	2009 09 27.30019	00 22 37.99	+05 41 49.7	2009 ST_{300}	22.1	V	G96
2009 SM_{418}	2009 09 27.30806	00 22 37.52	+05 41 48.0	2009 ST_{300}	21.9	V	G96
2009 SN_{418}	*2009 09 25.32088	23 28 41.19	+03 07 16.2	2009 SH_{301}	21.1	V	291
2009 SN_{418}	2009 09 25.32710	23 28 40.87	+03 07 15.1	2009 SH_{301}	21.2	V	291
2009 SN_{418}	2009 09 25.33083	23 28 40.69	+03 07 14.5	2009 SH_{301}	21.1	V	291
2009 SO_{418}	*2009 09 24.27631	23 02 01.06	−00 03 36.7	2009 ST_{305}	21.2	V	G96
2009 SO_{418}	2009 09 24.28451	23 02 00.74	−00 03 39.0	2009 ST_{305}	21.0	V	G96
2009 SO_{418}	2009 09 24.29281	23 02 00.38	−00 03 41.0	2009 ST_{305}	22.0	V	G96
2009 SO_{418}	2009 09 24.30089	23 02 00.02	−00 03 43.9	2009 ST_{305}	21.3	V	G96
2009 SP_{418}	*2009 09 24.27631	23 02 14.74	−00 08 42.7	2009 SU_{305}	20.8	V	G96
2009 SP_{418}	2009 09 24.28451	23 02 14.42	−00 08 44.9	2009 SU_{305}	20.8	V	G96
2009 SP_{418}	2009 09 24.29281	23 02 14.02	−00 08 47.7	2009 SU_{305}	21.0	V	G96
2009 SP_{418}	2009 09 24.30089	23 02 13.70	−00 08 50.4	2009 SU_{305}	20.8	V	G96
2009 SQ_{418}	*2009 09 29.33212	01 01 42.92	+15 26 09.7	2009 SO_{310}	20.6	V	G96
2009 SQ_{418}	2009 09 29.33866	01 01 42.56	+15 26 07.6	2009 SO_{310}	20.7	V	G96
2009 SQ_{418}	2009 09 29.34567	01 01 42.13	+15 26 05.3	2009 SO_{310}	20.8	V	G96
2009 SQ_{418}	2009 09 29.35265	01 01 41.73	+15 26 03.5	2009 SO_{310}	21.0	V	G96
2009 SR_{418}	*2009 09 30.19396	00 11 44.13	−03 59 38.3	2009 SF_{317}	21.1	V	291
2009 SR_{418}	2009 09 30.19767	00 11 43.87	−03 59 39.7	2009 SF_{317}	21.7	V	291
2009 SR_{418}	2009 09 30.20139	00 11 43.76	−03 59 40.7	2009 SF_{317}	21.1	V	291
2009 SS_{418}	*2009 09 25.43681	00 08 53.05	+02 19 37.3	2009 SJ_{320}	21.2	V	G96
2009 SS_{418}	2009 09 25.43888	00 08 52.98	+02 19 35.9	2009 SJ_{320}	21.0	V	G96

2009 SS_{418}	2009 09 25.44095	00 08 52.90	+02 19 34.4	2009 SJ_{320}	21.0	V	G96
2009 SS_{418}	2009 09 25.44303	00 08 52.83	+02 19 33.4	2009 SJ_{320}	21.2	V	G96
2009 ST_{418}	*2009 09 25.43681	00 09 03.34	+02 21 10.5	2009 SK_{320}	20.6	V	G96
2009 ST_{418}	2009 09 25.43888	00 09 03.24	+02 21 09.1	2009 SK_{320}	20.9	V	G96
2009 ST_{418}	2009 09 25.44095	00 09 03.13	+02 21 07.5	2009 SK_{320}	21.4	V	G96
2009 ST_{418}	2009 09 25.44303	00 09 03.02	+02 21 06.2	2009 SK_{320}	21.8	V	G96
2009 SU_{418}	*2009 09 25.22788	01 10 01.14	+04 33 10.3	2009 TH_{18}	20.5	V	691
2009 SU_{418}	2009 09 25.24560	01 10 00.25	+04 33 08.5	2009 TH_{18}	20.3	V	691
2009 SU_{418}	2009 09 25.26327	01 09 59.41	+04 33 06.9	2009 TH_{18}	20.4	V	691
2009 SU_{418}	2009 10 15.24976	00 52 53.14	+04 02 16.4	2009 TH_{18}	20.0	V	G96
2009 SU_{418}	2009 10 15.25681	00 52 52.78	+04 02 15.8	2009 TH_{18}	19.8	V	G96
2009 SU_{418}	2009 10 15.26368	00 52 52.39	+04 02 15.3	2009 TH_{18}	19.6	V	G96
2009 SU_{418}	2009 10 15.27064	00 52 52.03	+04 02 14.8	2009 TH_{18}	19.4	V	G96
2009 SV_{418}	*2009 09 29.22243	01 18 33.46	+03 20 45.9	2009 TK_{20}	20.4	V	691
2009 SV_{418}	2009 09 29.24034	01 18 32.63	+03 20 41.7	2009 TK_{20}	20.2	V	691
2009 SV_{418}	2009 09 29.25796	01 18 31.73	+03 20 37.5	2009 TK_{20}	20.8	V	691
2009 SV_{418}	2009 10 16.24532	01 03 41.86	+02 19 55.1	2009 TK_{20}	19.8	V	G96
2009 SV_{418}	2009 10 16.25161	01 03 41.50	+02 19 54.0	2009 TK_{20}	19.8	V	G96
2009 SV_{418}	2009 10 16.25787	01 03 41.18	+02 19 52.9	2009 TK_{20}	19.7	V	G96
2009 SV_{418}	2009 10 16.26405	01 03 40.82	+02 19 51.8	2009 TK_{20}	19.8	V	G96
2009 SW_{418}	*2009 09 25.32880	00 04 36.48	+00 41 18.9	2009 TQ_{23}	21.0	V	G96
2009 SW_{418}	2009 09 25.33654	00 04 36.01	+00 41 18.5	2009 TQ_{23}	20.8	V	G96
2009 SW_{418}	2009 09 25.34435	00 04 35.58	+00 41 18.3	2009 TQ_{23}	20.8	V	G96
2009 SW_{418}	2009 09 25.35208	00 04 35.07	+00 41 18.8	2009 TQ_{23}	20.7	V	G96
2009 SX_{418}	*2009 09 22.33955	00 00 50.18	+17 55 34.0	2009 TK_{45}	19.7	V	703
2009 SX_{418}	2009 09 22.34826	00 00 49.75	+17 55 27.5	2009 TK_{45}	20.1	V	703
2009 SX_{418}	2009 09 22.35691	00 00 49.35	+17 55 21.1	2009 TK_{45}	19.8	V	703
2009 SX_{418}	2009 09 22.36559	00 00 49.03	+17 55 14.7	2009 TK_{45}	20.8	V	703
2009 SY_{418}	*2009 09 28.33785	01 38 17.34	+01 22 25.7	2009 UW_{9}	21.5	V	G96
2009 SY_{418}	2009 09 28.34532	01 38 17.01	+01 22 23.6	2009 UW_{9}	21.1	V	G96
2009 SY_{418}	2009 09 28.35280	01 38 16.69	+01 22 21.2	2009 UW_{9}	21.7	V	G96
2009 SY_{418}	2009 09 28.36013	01 38 16.36	+01 22 18.8	2009 UW_{9}	21.0	V	G96
2009 SZ_{418}	*2009 09 18.22114	23 41 48.81	−00 10 22.5	2009 UE_{69}	21.5	V	291
2009 SZ_{418}	2009 09 18.22483	23 41 48.60	−00 10 23.9	2009 UE_{69}	21.6	V	291
2009 SZ_{418}	2009 09 18.22857	23 41 48.42	−00 10 25.6	2009 UE_{69}	21.5	V	291
2009 SZ_{418}	2009 09 18.23580	23 41 48.12	−00 10 29.6	2009 UE_{69}	22.1	V	G96
2009 SZ_{418}	2009 09 18.24344	23 41 47.68	−00 10 32.9	2009 UE_{69}	21.3	V	G96
2009 SZ_{418}	2009 09 18.25125	23 41 47.29	−00 10 35.8	2009 UE_{69}	21.3	V	G96
2009 SZ_{418}	2009 09 18.25904	23 41 46.89	−00 10 39.6	2009 UE_{69}	21.5	V	G96
2009 SA_{419}	*2009 09 16.43807	03 06 34.95	+18 17 42.6	2009 VD_{11}	22.6	V	G96
2009 SA_{419}	2009 09 16.44487	03 06 35.10	+18 17 41.7	2009 VD_{11}	21.6	V	G96
2009 SA_{419}	2009 09 16.45186	03 06 35.17	+18 17 41.2	2009 VD_{11}	21.7	V	G96
2009 SA_{419}	2009 09 16.45877	03 06 35.31	+18 17 40.5	2009 VD_{11}	21.9	V	G96
2009 TF_{57}	*2009 10 14.19440	23 50 00.74	+01 37 11.5	2009 SJ_{73}	21.3	V	G96
2009 TF_{57}	2009 10 14.20121	23 50 00.63	+01 37 10.4	2009 SJ_{73}	22.0	V	G96
2009 TF_{57}	2009 10 14.20843	23 50 00.38	+01 37 08.5	2009 SJ_{73}	21.4	V	G96
2009 TG_{57}	*2009 10 09.14232	22 54 26.20	−09 06 03.2	2009 SZ_{154}	21.5	V	291
2009 TG_{57}	2009 10 09.14607	22 54 26.11	−09 06 03.8	2009 SZ_{154}	21.7	V	291
2009 TG_{57}	2009 10 09.15062	22 54 26.00	−09 06 04.2	2009 SZ_{154}	21.5	V	291
2009 TH_{57}	*2009 10 12.18521	23 43 48.08	−10 12 46.5	2009 SR_{179}	20.3	V	291
2009 TH_{57}	2009 10 12.18904	23 43 47.92	−10 12 47.1	2009 SR_{179}	20.4	V	291
2009 TH_{57}	2009 10 12.19288	23 43 47.78	−10 12 47.6	2009 SR_{179}	20.5	V	291
2009 TJ_{57}	*2009 10 15.19391	23 47 57.37	+08 41 16.6	2009 SP_{211}	20.4	R	G89
2009 TJ_{57}	2009 10 15.20148	23 47 57.09	+08 41 15.0	2009 SP_{211}	20.4	R	G89
2009 TJ_{57}	2009 10 15.23486	23 47 55.85	+08 41 07.6	2009 SP_{211}	20.4	R	G89
2009 TK_{57}	*2009 10 09.19704	22 51 00.57	−02 02 59.7	2009 SK_{217}	22.0	V	291
2009 TK_{57}	2009 10 09.20281	22 51 00.40	−02 03 00.2	2009 SK_{217}	21.8	V	291
2009 TK_{57}	2009 10 09.20656	22 51 00.29	−02 03 00.9	2009 SK_{217}	21.7	V	291
2009 TL_{57}	*2009 10 09.11931	02 21 24.54	+10 00 07.8	2009 SW_{244}	18.5	V	J75
2009 TL_{57}	2009 10 09.13167	02 21 24.15	+10 00 00.6	2009 SW_{244}	19.1	V	J75
2009 TL_{57}	2009 10 09.14398	02 21 23.73	+09 59 52.7	2009 SW_{244}	19.1	V	J75
2009 TM_{57}	*2009 10 14.24690	00 55 11.53	+08 13 33.1	2009 SH_{310}	21.0	V	G96
2009 TM_{57}	2009 10 14.25634	00 55 11.02	+08 13 32.0	2009 SH_{310}	20.7	V	G96
2009 TM_{57}	2009 10 14.26324	00 55 10.63	+08 13 30.6	2009 SH_{310}	20.7	V	G96
2009 TM_{57}	2009 10 14.26892	00 55 10.34	+08 13 30.2	2009 SH_{310}	20.8	V	G96
2009 TN_{57}	*2009 10 13.30740	23 56 15.02	+10 39 40.0	2009 TK_{4}	20.2	C	H10
2009 TN_{57}	2009 10 13.31363	23 56 14.71	+10 39 39.0	2009 TK_{4}	20.3	C	H10
2009 TN_{57}	2009 10 13.31778	23 56 14.53	+10 39 37.8	2009 TK_{4}	20.1	C	H10
2009 TO_{57}	*2009 10 14.22112	01 38 11.94	+08 40 16.1	2009 TS_{10}	22.0	V	G96
2009 TO_{57}	2009 10 14.22714	01 38 11.65	+08 40 14.3	2009 TS_{10}	21.7	V	G96
2009 TO_{57}	2009 10 14.23338	01 38 11.29	+08 40 13.7	2009 TS_{10}	22.3	V	G96
2009 TO_{57}	2009 10 14.23957	01 38 10.93	+08 40 11.8	2009 TS_{10}	21.7	V	G96
2009 TP_{57}	*2009 10 15.94572	23 34 13.85	+05 25 26.8	2009 TN_{12}	19.7	R	A77
2009 TP_{57}	2009 10 15.97003	23 34 12.99	+05 25 22.8	2009 TN_{12}	19.7	R	A77
2009 TP_{57}	2009 10 15.99436	23 34 12.06	+05 25 17.0	2009 TN_{12}	19.6	R	A77
2009 TQ_{57}	*2009 10 12.42577	01 28 23.66	+08 24 16.9	2009 UH_{119}	20.0	V	G96
2009 TQ_{57}	2009 10 12.42770	01 28 23.55	+08 24 15.8	2009 UH_{119}	20.1	V	G96
2009 TQ_{57}	2009 10 12.42963	01 28 23.48	+08 24 13.9	2009 UH_{119}	19.5	V	G96
2009 TQ_{57}	2009 10 12.43156	01 28 23.41	+08 24 12.6	2009 UH_{119}	20.0	V	G96
2009 TR_{57}	*2009 10 12.44528	04 02 57.37	+15 36 04.2	2009 VX_{57}	21.3	V	G96
2009 TR_{57}	2009 10 12.45167	04 02 57.26	+15 36 02.9	2009 VX_{57}	20.6	V	G96
2009 TR_{57}	2009 10 12.45771	04 02 57.19	+15 36 01.7	2009 VX_{57}	20.8	V	G96
2009 TR_{57}	2009 10 12.46375	04 02 57.08	+15 36 01.1	2009 VX_{57}	20.2	V	G96
2009 UN_{187}	*2009 10 16.18058	00 24 00.75	+02 33 59.3	2009 RT_{66}	21.5	V	G96
2009 UN_{187}	2009 10 16.18796	00 24 00.46	+02 33 57.7	2009 RT_{66}	21.9	V	G96
2009 UN_{187}	2009 10 16.19547	00 24 00.07	+02 33 56.5	2009 RT_{66}	21.7	V	G96
2009 UO_{187}	*2009 10 17.16444	23 21 19.36	−02 21 04.6	2009 SL_{87}	20.3	V	G96
2009 UO_{187}	2009 10 17.17053	23 21 19.11	−02 21 04.1	2009 SL_{87}	20.7	V	G96
2009 UO_{187}	2009 10 17.17678	23 21 18.93	−02 21 04.3	2009 SL_{87}	20.8	V	G96
2009 UO_{187}	2009 10 17.18293	23 21 18.75	−02 21 03.4	2009 SL_{87}	21.1	V	G96
2009 UP_{187}	*2009 10 16.33891	01 41 12.04	+06 19 30.2	2009 SC_{144}	20.3	V	G96
2009 UP_{187}	2009 10 16.34518	01 41 11.68	+06 19 27.4	2009 SC_{144}	20.1	V	G96
2009 UP_{187}	2009 10 16.35135	01 41 11.36	+06 19 24.1	2009 SC_{144}	20.2	V	G96
2009 UP_{187}	2009 10 16.35753	01 41 11.00	+06 19 20.6	2009 SC_{144}	20.1	V	G96
2009 UQ_{187}	*2009 10 16.21641	00 58 35.00	+01 11 13.2	2009 SR_{211}	21.3	V	G96
2009 UQ_{187}	2009 10 16.22389	00 58 34.60	+01 11 12.5	2009 SR_{211}	21.2	V	G96
2009 UQ_{187}	2009 10 16.23133	00 58 34.28	+01 11 11.6	2009 SR_{211}	21.8	V	G96
2009 UQ_{187}	2009 10 16.23869	00 58 33.88	+01 11 10.6	2009 SR_{211}	21.4	V	G96
2009 UR_{187}	*2009 10 17.27223	01 03 13.46	+00 06 17.5	2009 SG_{264}	20.2	V	G96
2009 UR_{187}	2009 10 17.27928	01 03 13.10	+00 06 16.3	2009 SG_{264}	20.2	V	G96
2009 UR_{187}	2009 10 17.28637	01 03 12.78	+00 06 14.9	2009 SG_{264}	19.8	V	G96
2009 UR_{187}	2009 10 17.29341	01 03 12.42	+00 06 13.4	2009 SG_{264}	19.9	V	G96
2009 US_{187}	*2009 10 16.24795	01 22 10.34	+02 25 27.4	2009 SA_{280}	20.4	V	G96
2009 US_{187}	2009 10 16.25412	01 22 10.02	+02 25 25.0	2009 SA_{280}	20.0	V	G96
2009 US_{187}	2009 10 16.26038	01 22 09.66	+02 25 22.8	2009 SA_{280}	20.7	V	G96
2009 US_{187}	2009 10 16.26653	01 22 09.33	+02 25 20.6	2009 SA_{280}	20.0	V	G96

2009 UT_{187}	*2009 10 24.27773	01 32 36.60	+01 47 38.3	2009 SN_{295}	21.4	V	G96
2009 UT_{187}	2009 10 24.28443	01 32 36.24	+01 47 36.7	2009 SN_{295}	21.5	V	G96
2009 UT_{187}	2009 10 24.29137	01 32 35.91	+01 47 35.4	2009 SN_{295}	21.4	V	G96
2009 UT_{187}	2009 10 24.29819	01 32 35.52	+01 47 33.1	2009 SN_{295}	21.6	V	G96
2009 UU_{187}	*2009 10 16.33713	01 39 57.16	+03 05 40.3	2009 SR_{295}	21.2	V	G96
2009 UU_{187}	2009 10 16.34330	01 39 56.84	+03 05 38.6	2009 SR_{295}	21.3	V	G96
2009 UU_{187}	2009 10 16.34955	01 39 56.52	+03 05 37.5	2009 SR_{295}	21.8	V	G96
2009 UU_{187}	2009 10 16.35566	01 39 56.16	+03 05 36.3	2009 SR_{295}	21.4	V	G96
2009 UV_{187}	*2009 10 17.19530	00 39 49.32	−00 13 13.5	2009 SY_{320}	21.3	V	G96
2009 UV_{187}	2009 10 17.20267	00 39 48.99	−00 13 14.6	2009 SY_{320}	21.5	V	G96
2009 UV_{187}	2009 10 17.21009	00 39 48.60	−00 13 16.5	2009 SY_{320}	21.1	V	G96
2009 UV_{187}	2009 10 17.21755	00 39 48.20	−00 13 18.5	2009 SY_{320}	21.6	V	G96
2009 UW_{187}	*2009 10 16.36987	01 50 48.22	+06 40 06.8	2009 SM_{321}	21.3	V	G96
2009 UW_{187}	2009 10 16.37800	01 50 47.83	+06 40 04.4	2009 SM_{321}	21.4	V	G96
2009 UW_{187}	2009 10 16.38615	01 50 47.43	+06 40 02.3	2009 SM_{321}	21.0	V	G96
2009 UW_{187}	2009 10 16.39420	01 50 47.04	+06 39 59.5	2009 SM_{321}	21.0	V	G96
2009 UX_{187}	*2009 10 26.31223	02 05 56.97	+05 00 32.7	2009 SN_{348}	19.8	V	G96
2009 UX_{187}	2009 10 26.31987	02 05 56.50	+05 00 32.9	2009 SN_{348}	19.9	V	G96
2009 UX_{187}	2009 10 26.32755	02 05 56.07	+05 00 32.7	2009 SN_{348}	19.5	V	G96
2009 UX_{187}	2009 10 26.33510	02 05 55.60	+05 00 32.8	2009 SN_{348}	19.7	V	G96
2009 UY_{187}	*2009 10 17.16705	23 42 40.13	+03 46 37.5	2009 SV_{358}	21.7	V	291
2009 UY_{187}	2009 10 17.17719	23 42 39.73	+03 46 34.2	2009 SV_{358}	21.8	V	291
2009 UY_{187}	2009 10 17.18953	23 42 39.24	+03 46 30.3	2009 SV_{358}	21.7	V	291
2009 UY_{187}	2009 10 20.12727	23 40 53.07	+03 31 38.3	2009 SV_{358}	21.7	V	291
2009 UY_{187}	2009 10 20.13095	23 40 52.90	+03 31 37.7	2009 SV_{358}	21.5	V	291
2009 UY_{187}	2009 10 20.13487	23 40 52.77	+03 31 36.1	2009 SV_{358}	21.5	V	291
2009 UZ_{187}	*2009 10 25.19745	23 32 12.01	−03 20 22.8	2009 SM_{363}	21.5	V	G96
2009 UZ_{187}	2009 10 25.20351	23 32 11.97	−03 20 23.6	2009 SM_{363}	21.3	V	G96
2009 UZ_{187}	2009 10 25.20964	23 32 11.83	−03 20 24.5	2009 SM_{363}	21.4	V	G96
2009 UZ_{187}	2009 10 25.21581	23 32 11.76	−03 20 25.1	2009 SM_{363}	21.3	V	G96
2009 UA_{188}	*2009 10 17.54209	01 21 30.08	+08 35 44.2	2009 TA_{37}	21.0	R	300
2009 UA_{188}	2009 10 17.54604	01 21 29.85	+08 35 43.8	2009 TA_{37}	20.8	R	300
2009 UA_{188}	2009 10 17.55194	01 21 29.61	+08 35 42.5	2009 TA_{37}	20.9	R	300
2009 UB_{188}	*2009 10 22.28433	00 46 34.21	+06 57 49.7	2009 TD_{37}	19.6	V	703
2009 UB_{188}	2009 10 22.29157	00 46 33.99	+06 57 47.7	2009 TD_{37}	19.8	V	703
2009 UB_{188}	2009 10 22.29875	00 46 33.60	+06 57 45.3	2009 TD_{37}	20.1	V	703
2009 UB_{188}	2009 10 22.30598	00 46 33.34	+06 57 41.1	2009 TD_{37}	21.1	V	703
2009 UC_{188}	*2009 10 18.97725	00 53 46.49	+05 47 09.7	2009 UN_{2}	20.5	R	A77
2009 UC_{188}	2009 10 19.00176	00 53 45.21	+05 47 06.6	2009 UN_{2}	20.1	R	A77
2009 UC_{188}	2009 10 19.02625	00 53 43.76	+05 47 01.6	2009 UN_{2}	19.7	R	A77
2009 UD_{188}	*2009 10 24.20884	02 23 27.74	+13 13 16.8	2009 UL_{44}			691
2009 UD_{188}	2009 10 24.22603	02 23 26.80	+13 13 10.8	2009 UL_{44}			691
2009 UD_{188}	2009 10 24.24320	02 23 25.82	+13 13 05.0	2009 UL_{44}			691
2009 UE_{188}	*2009 10 24.29718	02 58 46.36	+18 30 47.4	2009 UH_{57}			691
2009 UE_{188}	2009 10 24.31436	02 58 45.41	+18 30 43.5	2009 UH_{57}			691
2009 UE_{188}	2009 10 24.33155	02 58 44.29	+18 30 38.8	2009 UH_{57}			691
2009 UF_{188}	*2009 10 24.34779	01 55 27.19	+05 54 08.6	2009 UA_{68}	21.4	V	G96
2009 UF_{188}	2009 10 24.35539	01 55 26.68	+05 54 06.0	2009 UA_{68}	21.4	V	G96
2009 UF_{188}	2009 10 24.36285	01 55 26.22	+05 54 04.0	2009 UA_{68}	21.5	V	G96
2009 UF_{188}	2009 10 24.37039	01 55 25.75	+05 54 01.5	2009 UA_{68}	22.2	V	G96
2009 UG_{188}	*2009 10 28.62354	02 18 42.65	+18 27 39.5	2009 UE_{93}	21.0	R	300
2009 UG_{188}	2009 10 28.62920	02 18 42.33	+18 27 37.5	2009 UE_{93}	20.6	R	300
2009 UG_{188}	2009 10 28.63488	02 18 42.14	+18 27 36.3	2009 UE_{93}	21.1	R	300
2009 UH_{188}	*2009 10 26.34517	02 20 14.28	+07 59 33.5	2009 UO_{104}	20.8	V	G96
2009 UH_{188}	2009 10 26.34775	02 20 14.13	+07 59 33.4	2009 UO_{104}	21.2	V	G96
2009 UH_{188}	2009 10 26.35038	02 20 14.02	+07 59 32.7	2009 UO_{104}	21.4	V	G96
2009 UH_{188}	2009 10 26.35292	02 20 13.84	+07 59 31.7	2009 UO_{104}	21.5	V	G96
2009 UJ_{188}	*2009 10 27.42255	04 08 45.72	+21 01 14.2	2009 UU_{110}			691
2009 UJ_{188}	2009 10 27.43976	04 08 45.07	+21 01 12.1	2009 UU_{110}			691
2009 UJ_{188}	2009 10 27.45698	04 08 44.39	+21 01 10.6	2009 UU_{110}			691
2009 UK_{188}	*2009 10 27.30374	02 34 37.84	+07 42 39.7	2009 UG_{154}	20.9	V	G96
2009 UK_{188}	2009 10 27.30988	02 34 37.48	+07 42 38.6	2009 UG_{154}	20.9	V	G96
2009 UK_{188}	2009 10 27.31624	02 34 37.12	+07 42 37.9	2009 UG_{154}	20.4	V	G96
2009 UK_{188}	2009 10 27.32235	02 34 36.76	+07 42 36.8	2009 UG_{154}	20.7	V	G96
2009 UK_{188}	2009 11 20.24952	02 14 16.83	+07 13 04.4	2009 UG_{154}	21.0	V	G96
2009 UK_{188}	2009 11 20.25535	02 14 16.58	+07 13 04.1	2009 UG_{154}	20.9	V	G96
2009 UK_{188}	2009 11 20.26123	02 14 16.33	+07 13 04.2	2009 UG_{154}	20.9	V	G96
2009 UK_{188}	2009 11 20.26705	02 14 16.08	+07 13 04.5	2009 UG_{154}	21.2	V	G96
2009 UL_{188}	*2009 10 27.33097	02 16 58.47	+20 59 53.4	2009 UL_{159}	21.1	V	G96
2009 UL_{188}	2009 10 27.33786	02 16 58.04	+20 59 51.2	2009 UL_{159}	21.1	V	G96
2009 UL_{188}	2009 10 27.34495	02 16 57.61	+20 59 49.7	2009 UL_{159}	20.6	V	G96
2009 UL_{188}	2009 10 27.35207	02 16 57.21	+20 59 47.0	2009 UL_{159}	20.7	V	G96
2009 UM_{188}	*2009 10 26.41824	03 24 12.16	+27 06 38.2	2009 VW_{20}	21.0	V	G96
2009 UM_{188}	2009 10 26.42574	03 24 11.70	+27 06 38.1	2009 VW_{20}	21.2	V	G96
2009 UM_{188}	2009 10 26.43332	03 24 11.30	+27 06 37.2	2009 VW_{20}	21.2	V	G96
2009 UN_{188}	*2009 10 26.31280	03 26 35.62	+13 41 18.9	2009 VU_{108}	20.9	V	691
2009 UN_{188}	2009 10 26.33000	03 26 34.73	+13 41 16.1	2009 VU_{108}	20.9	V	691
2009 UN_{188}	2009 10 26.34721	03 26 33.82	+13 41 12.3	2009 VU_{108}	20.3	V	691
2009 UO_{188}	*2009 10 24.21364	02 33 50.51	+13 47 17.3	2009 WZ_{11}			691
2009 UO_{188}	2009 10 24.23082	02 33 49.74	+13 47 10.0	2009 WZ_{11}			691
2009 UO_{188}	2009 10 24.24799	02 33 48.99	+13 47 02.9	2009 WZ_{11}			691
2009 UP_{188}	*2009 10 18.34586	03 35 03.55	+17 41 36.7	2009 WO_{65}	22.4	V	G96
2009 UP_{188}	2009 10 18.35343	03 35 03.40	+17 41 35.8	2009 WO_{65}	21.6	V	G96
2009 UP_{188}	2009 10 18.36094	03 35 03.04	+17 41 33.6	2009 WO_{65}	21.2	V	G96
2009 UP_{188}	2009 10 18.36847	03 35 02.76	+17 41 31.7	2009 WO_{65}	21.4	V	G96
2009 UQ_{188}	*2009 10 22.41005	03 53 45.38	+15 51 31.7	2009 WB_{220}	21.2	V	G96
2009 UQ_{188}	2009 10 22.41982	03 53 44.98	+15 51 31.1	2009 WB_{220}	21.1	V	G96
2009 UQ_{188}	2009 10 22.42958	03 53 44.55	+15 51 31.5	2009 WB_{220}	21.1	V	G96
2009 UQ_{188}	2009 10 22.43936	03 53 44.23	+15 51 31.2	2009 WB_{220}	20.9	V	G96
2009 UR_{188}	*2009 10 22.40574	03 44 27.56	+15 37 09.2	2009 WG_{227}	21.7	V	G96
2009 UR_{188}	2009 10 22.41552	03 44 27.24	+15 37 07.3	2009 WG_{227}	21.0	V	G96
2009 UR_{188}	2009 10 22.42527	03 44 26.80	+15 37 05.2	2009 WG_{227}	21.5	V	G96
2009 UR_{188}	2009 10 22.43500	03 44 26.44	+15 37 03.5	2009 WG_{227}	21.6	V	G96
2009 VX_{130}	*2009 11 08.33588	02 57 26.82	+17 15 27.3	2009 UX_{97}	20.1	V	G96
2009 VX_{130}	2009 11 08.34154	02 57 26.42	+17 15 29.8	2009 UX_{97}	19.7	V	G96
2009 VX_{130}	2009 11 08.34720	02 57 26.02	+17 15 32.5	2009 UX_{97}	20.1	V	G96
2009 VX_{130}	2009 11 08.35296	02 57 25.59	+17 15 35.4	2009 UX_{97}	20.0	V	G96
2009 VY_{130}	*2009 11 08.18836	02 05 27.09	+20 10 12.6	2009 UG_{116}	20.0	V	703
2009 VY_{130}	2009 11 08.19635	02 05 26.59	+20 10 10.4	2009 UG_{116}	20.1	V	703
2009 VY_{130}	2009 11 08.20433	02 05 26.05	+20 10 08.8	2009 UG_{116}	19.9	V	703
2009 VY_{130}	2009 11 08.21215	02 05 25.54	+20 10 04.5	2009 UG_{116}	19.7	V	703
2009 VZ_{130}	*2009 11 07.93405	01 51 27.11	+21 46 09.8	2009 UK_{135}	20.5	V	941
2009 VZ_{130}	2009 11 07.93704	01 51 26.95	+21 46 09.2	2009 UK_{135}	20.5	V	941
2009 VZ_{130}	2009 11 07.94378	01 51 26.64	+21 46 06.9	2009 UK_{135}	20.6	V	941
2009 VA_{131}	*2009 11 08.30840	02 45 14.43	+13 21 08.2	2009 UT_{138}	20.8	V	G96
2009 VA_{131}	2009 11 08.31405	02 45 14.18	+13 21 05.9	2009 UT_{138}	20.3	V	G96

2009 VA_{131}	2009 11 08.31968	02 45 13.89	+13 21 02.4	2009 UT_{138}	21.1	V	G96
2009 VA_{131}	2009 11 08.32535	02 45 13.60	+13 20 59.3	2009 UT_{138}	20.6	V	G96
2009 VB_{131} *	2009 11 10.34119	03 04 52.57	+15 03 18.3	2009 VZ_{15}	20.8	V	G96
2009 VB_{131}	2009 11 10.34720	03 04 52.28	+15 03 16.3	2009 VZ_{15}	20.9	V	G96
2009 VC_{131} *	2009 11 09.42831	04 34 51.09	+24 30 31.6	2009 WP_{207}	20.3	V	G96
2009 VC_{131}	2009 11 09.43541	04 34 50.73	+24 30 32.2	2009 WP_{207}	21.2	V	G96
2009 VC_{131}	2009 11 09.44250	04 34 50.34	+24 30 32.0	2009 WP_{207}	21.6	V	G96
2009 VC_{131}	2009 11 09.44962	04 34 49.94	+24 30 32.3	2009 WP_{207}	20.3	V	G96
2009 WB_{296} *	2009 11 16.24507	01 31 15.88	+05 32 16.4	2009 SZ_{307}	21.4	V	G96
2009 WB_{296}	2009 11 16.25237	01 31 15.60	+05 32 16.2	2009 SZ_{307}	20.9	V	G96
2009 WB_{296}	2009 11 16.25981	01 31 15.34	+05 32 15.8	2009 SZ_{307}	20.8	V	G96
2009 WB_{296}	2009 11 16.26730	01 31 15.02	+05 32 15.9	2009 SZ_{307}	20.7	V	G96
2009 WB_{296}	2009 11 17.08001	01 30 46.08	+05 31 53.2	2009 SZ_{307}	21.1	V	691
2009 WB_{296}	2009 11 17.10383	01 30 45.19	+05 31 52.4	2009 SZ_{307}	20.7	V	691
2009 WB_{296}	2009 11 17.12766	01 30 44.33	+05 31 52.0	2009 SZ_{307}	20.9	V	691
2009 WC_{296} *	2009 11 23.27832	03 28 37.95	+15 59 36.5	2009 UK_{39}	21.8	V	G96
2009 WC_{296}	2009 11 23.28419	03 28 37.56	+15 59 36.8	2009 UK_{39}	21.6	V	G96
2009 WC_{296}	2009 11 23.28997	03 28 37.16	+15 59 35.3	2009 UK_{39}	20.9	V	G96
2009 WC_{296}	2009 11 23.29581	03 28 36.94	+15 59 34.7	2009 UK_{39}	21.2	V	G96
2009 WD_{296} *	2009 11 17.27267	02 14 47.14	+15 09 41.2	2009 UV_{52}	20.9	V	G96
2009 WD_{296}	2009 11 17.27919	02 14 46.86	+15 09 39.7	2009 UV_{52}	20.6	V	G96
2009 WD_{296}	2009 11 17.28573	02 14 46.57	+15 09 38.7	2009 UV_{52}	21.0	V	G96
2009 WD_{296}	2009 11 17.29233	02 14 46.24	+15 09 37.2	2009 UV_{52}	21.1	V	G96
2009 WE_{296} *	2009 11 16.07830	01 34 18.59	+13 16 09.1	2009 UL_{74}	21.5	V	691
2009 WE_{296}	2009 11 16.09417	01 34 18.02	+13 16 06.3	2009 UL_{74}	20.8	V	691
2009 WE_{296}	2009 11 16.11003	01 34 17.57	+13 16 03.2	2009 UL_{74}	20.8	V	691
2009 WF_{296} *	2009 11 23.27889	03 33 53.02	+16 10 15.5	2009 UC_{83}	20.6	V	G96
2009 WF_{296}	2009 11 23.28476	03 33 52.70	+16 10 14.7	2009 UC_{83}	20.7	V	G96
2009 WF_{296}	2009 11 23.29056	03 33 52.34	+16 10 13.7	2009 UC_{83}	20.6	V	G96
2009 WF_{296}	2009 11 23.29641	03 33 51.98	+16 10 13.0	2009 UC_{83}	20.5	V	G96
2009 WG_{296} *	2009 11 23.21917	03 30 44.96	+17 40 24.6	2009 UG_{83}	20.6	V	G96
2009 WG_{296}	2009 11 23.22488	03 30 44.42	+17 40 25.7	2009 UG_{83}	20.2	V	G96
2009 WG_{296}	2009 11 23.23064	03 30 44.24	+17 40 25.5	2009 UG_{83}	20.1	V	G96
2009 WG_{296}	2009 11 23.23648	03 30 43.70	+17 40 25.3	2009 UG_{83}	21.4	V	G96
2009 WH_{296} *	2009 11 23.28065	03 45 49.60	+16 01 38.9	2009 UE_{84}	21.2	V	G96
2009 WH_{296}	2009 11 23.28651	03 45 49.24	+16 01 37.8	2009 UE_{84}	20.9	V	G96
2009 WH_{296}	2009 11 23.29233	03 45 48.88	+16 01 36.8	2009 UE_{84}	20.6	V	G96
2009 WH_{296}	2009 11 23.29815	03 45 48.56	+16 01 35.1	2009 UE_{84}	20.8	V	G96
2009 WJ_{296} *	2009 11 16.27883	02 17 45.74	+11 09 03.4	2009 UP_{96}	20.1	V	G96
2009 WJ_{296}	2009 11 16.28466	02 17 45.38	+11 09 02.6	2009 UP_{96}	20.4	V	G96
2009 WJ_{296}	2009 11 16.29064	02 17 45.06	+11 09 02.2	2009 UP_{96}	20.6	V	G96
2009 WK_{296} *	2009 11 20.24615	02 08 17.19	+06 22 40.1	2009 UQ_{117}	20.4	V	G96
2009 WK_{296}	2009 11 20.25185	02 08 16.98	+06 22 39.9	2009 UQ_{117}	20.3	V	G96
2009 WK_{296}	2009 11 20.25766	02 08 16.76	+06 22 39.7	2009 UQ_{117}	20.6	V	G96
2009 WK_{296}	2009 11 20.26359	02 08 16.54	+06 22 39.4	2009 UQ_{117}	20.1	V	G96
2009 WL_{296} *	2009 11 23.27776	03 22 32.62	+15 50 20.7	2009 UY_{142}	21.9	V	G96
2009 WL_{296}	2009 11 23.28359	03 22 32.30	+15 50 18.8	2009 UY_{142}	21.5	V	G96
2009 WL_{296}	2009 11 23.28938	03 22 31.90	+15 50 16.5	2009 UY_{142}	21.2	V	G96
2009 WL_{296}	2009 11 23.29524	03 22 31.58	+15 50 14.4	2009 UY_{142}	21.1	V	G96
2009 WM_{296} *	2009 11 17.27152	02 24 43.52	+15 09 30.4	2009 VA_{6}	20.1	V	G96
2009 WM_{296}	2009 11 17.27793	02 24 43.16	+15 09 30.1	2009 VA_{6}	20.2	V	G96
2009 WM_{296}	2009 11 17.28460	02 24 42.73	+15 09 29.8	2009 VA_{6}	19.8	V	G96
2009 WN_{296} *	2009 11 19.39749	02 26 51.72	+18 12 59.8	2009 VD_{9}	22.1	V	G96
2009 WN_{296} *	2009 11 19.40085	02 26 51.57	+18 12 59.1	2009 VD_{9}	21.3	V	G96
2009 WN_{296}	2009 11 19.40418	02 26 51.43	+18 12 57.7	2009 VD_{9}	21.8	V	G96
2009 WN_{296}	2009 11 19.40754	02 26 51.18	+18 12 56.7	2009 VD_{9}	22.1	V	G96
2009 WO_{296} *	2009 11 17.27035	02 23 11.43	+16 01 10.9	2009 VH_{53}	20.2	V	G96
2009 WO_{296}	2009 11 17.27675	02 23 11.14	+16 01 08.4	2009 VH_{53}	20.4	V	G96
2009 WO_{296}	2009 11 17.28345	02 23 10.86	+16 01 05.0	2009 VH_{53}	20.2	V	G96
2009 WO_{296}	2009 11 17.28994	02 23 10.57	+16 01 02.5	2009 VH_{53}	20.5	V	G96
2009 WP_{296} *	2009 11 17.26804	02 24 09.57	+16 18 53.4	2009 VM_{53}	20.4	V	G96
2009 WP_{296}	2009 11 17.27444	02 24 09.28	+16 18 50.9	2009 VM_{53}	20.4	V	G96
2009 WP_{296}	2009 11 17.28095	02 24 09.00	+16 18 48.5	2009 VM_{53}	20.4	V	G96
2009 WP_{296}	2009 11 17.28760	02 24 08.64	+16 18 45.7	2009 VM_{53}	20.3	V	G96
2009 WQ_{296} *	2009 11 17.26804	02 24 28.72	+16 26 50.3	2009 VR_{53}	20.3	V	G96
2009 WQ_{296}	2009 11 17.27444	02 24 28.44	+16 26 47.6	2009 VR_{53}	20.1	V	G96
2009 WQ_{296}	2009 11 17.28095	02 24 28.11	+16 26 46.5	2009 VR_{53}	20.7	V	G96
2009 WQ_{296}	2009 11 17.28760	02 24 27.79	+16 26 44.5	2009 VR_{53}	20.9	V	G96
2009 WR_{296} *	2009 11 17.26804	02 24 05.47	+16 19 41.5	2009 VS_{53}	20.9	V	G96
2009 WR_{296}	2009 11 17.27444	02 24 05.18	+16 19 38.9	2009 VS_{53}	21.1	V	G96
2009 WR_{296}	2009 11 17.28095	02 24 04.82	+16 19 36.0	2009 VS_{53}	21.2	V	G96
2009 WR_{296}	2009 11 17.28760	02 24 04.46	+16 19 32.4	2009 VS_{53}	20.4	V	G96
2009 WS_{296} *	2009 11 17.26804	02 24 37.51	+16 26 12.2	2009 VT_{53}	20.5	V	G96
2009 WS_{296}	2009 11 17.27444	02 24 37.22	+16 26 10.3	2009 VT_{53}	20.6	V	G96
2009 WS_{296}	2009 11 17.28095	02 24 36.93	+16 26 08.5	2009 VT_{53}	20.5	V	G96
2009 WS_{296}	2009 11 17.28760	02 24 36.64	+16 26 06.8	2009 VT_{53}	20.5	V	G96
2009 WT_{296} *	2009 11 17.26804	02 24 34.41	+16 28 33.0	2009 VW_{53}	20.8	V	G96
2009 WT_{296}	2009 11 17.27444	02 24 34.12	+16 28 30.2	2009 VW_{53}	21.6	V	G96
2009 WT_{296}	2009 11 17.28095	02 24 33.80	+16 28 27.5	2009 VW_{53}	21.1	V	G96
2009 WT_{296}	2009 11 17.28760	02 24 33.44	+16 28 25.0	2009 VW_{53}	20.6	V	G96
2009 WU_{296} *	2009 11 17.27209	02 22 35.40	+14 12 29.4	2009 VP_{56}	21.8	V	G96
2009 WU_{296}	2009 11 17.27854	02 22 35.00	+14 12 27.5	2009 VP_{56}	22.0	V	G96
2009 WU_{296}	2009 11 17.28516	02 22 34.60	+14 12 26.0	2009 VP_{56}	21.7	V	G96
2009 WU_{296}	2009 11 17.29168	02 22 34.24	+14 12 23.9	2009 VP_{56}	21.7	V	G96
2009 WV_{296} *	2009 11 17.29859	03 08 12.80	+14 58 48.0	2009 VZ_{57}	20.1	V	G96
2009 WV_{296}	2009 11 17.30619	03 08 12.37	+14 58 45.8	2009 VZ_{57}	20.1	V	G96
2009 WV_{296}	2009 11 17.31372	03 08 11.94	+14 58 44.0	2009 VZ_{57}	20.1	V	G96
2009 WV_{296}	2009 11 17.32137	03 08 11.50	+14 58 41.8	2009 VZ_{57}	20.1	V	G96
2009 WW_{296} *	2009 11 17.30210	02 54 17.17	+13 26 48.7	2009 VU_{62}	20.5	V	G96
2009 WW_{296}	2009 11 17.30968	02 54 16.74	+13 26 37.9	2009 VU_{62}	20.6	V	G96
2009 WW_{296}	2009 11 17.31729	02 54 16.27	+13 26 27.3	2009 VU_{62}	20.4	V	G96
2009 WW_{296}	2009 11 17.32493	02 54 15.76	+13 26 16.9	2009 VU_{62}	20.8	V	G96
2009 WX_{296} *	2009 11 17.26324	05 01 39.30	+25 09 16.8	2009 VV_{63}	21.3	V	691
2009 WX_{296}	2009 11 17.28095	05 01 38.44	+25 09 16.7	2009 VV_{63}	21.0	V	691
2009 WX_{296}	2009 11 17.29866	05 01 37.54	+25 09 16.1	2009 VV_{63}	21.0	V	691
2009 WY_{296} *	2009 11 19.29804	02 56 56.58	+12 35 20.6	2009 VF_{93}	21.0	V	G96
2009 WY_{296}	2009 11 19.30447	02 56 56.22	+12 35 20.5	2009 VF_{93}	21.1	V	G96
2009 WY_{296}	2009 11 19.31098	02 56 55.93	+12 35 19.9	2009 VF_{93}	21.2	V	G96
2009 WZ_{296} *	2009 11 20.33633	03 38 28.35	+21 49 10.8	2009 VN_{94}	20.6	V	G96
2009 WZ_{296}	2009 11 20.35413	03 38 27.42	+21 49 06.0	2009 VN_{94}	20.4	V	G96
2009 WA_{297} *	2009 11 18.14661	04 12 50.51	+16 31 13.1	2009 VY_{94}	20.0	V	691
2009 WA_{297}	2009 11 18.16424	04 12 49.56	+16 31 12.3	2009 VY_{94}	20.2	V	691
2009 WA_{297}	2009 11 18.18187	04 12 48.49	+16 31 11.8	2009 VY_{94}	20.4	V	691
2009 WA_{297}	2009 11 26.17990	04 05 01.15	+16 24 30.5	2009 VY_{94}	19.6	V	691
2009 WA_{297}	2009 11 26.19752	04 05 00.21	+16 24 30.6	2009 VY_{94}	20.0	V	691
2009 WA_{297}	2009 11 26.21512	04 04 59.07	+16 24 29.4	2009 VY_{94}	20.3	V	691

2009 WB_{297} *	2009 11 26.22351	04 21 41.41	+18 05 33.5	2009 VL_{95}	20.7	V	691
2009 WB_{297}	2009 11 26.24114	04 21 40.24	+18 05 32.8	2009 VL_{95}	21.2	V	691
2009 WB_{297}	2009 11 26.25881	04 21 39.14	+18 05 32.2	2009 VL_{95}	21.0	V	691
2009 WC_{297} *	2009 11 20.33633	03 38 15.00	+22 14 26.7	2009 VH_{97}	20.9	V	G96
2009 WC_{297}	2009 11 20.34221	03 38 14.67	+22 14 25.1	2009 VH_{97}	20.4	V	G96
2009 WC_{297}	2009 11 20.34831	03 38 14.31	+22 14 24.2	2009 VH_{97}	20.7	V	G96
2009 WC_{297}	2009 11 20.35413	03 38 13.95	+22 14 22.3	2009 VH_{97}	20.7	V	G96
2009 WD_{297} *	2009 11 17.21540	04 27 33.69	+24 30 33.1	2009 VJ_{99}	21.2	V	691
2009 WD_{297}	2009 11 17.23311	04 27 32.57	+24 30 32.9	2009 VJ_{99}	21.0	V	691
2009 WD_{297}	2009 11 17.25083	04 27 31.46	+24 30 32.4	2009 VJ_{99}	21.0	V	691
2009 WE_{297} *	2009 11 17.25829	04 39 05.79	+26 07 19.7	2009 VZ_{99}	21.6	V	691
2009 WE_{297}	2009 11 17.27600	04 39 04.75	+26 07 20.5	2009 VZ_{99}	21.6	V	691
2009 WE_{297}	2009 11 17.29372	04 39 03.69	+26 07 21.1	2009 VZ_{99}	22.0	V	691
2009 WF_{297} *	2009 11 23.22029	03 20 44.44	+18 16 12.2	2009 VO_{113}	21.5	V	G96
2009 WF_{297}	2009 11 23.22602	03 20 44.12	+18 16 11.7	2009 VO_{113}	21.0	V	G96
2009 WF_{297}	2009 11 23.23181	03 20 43.76	+18 16 11.8	2009 VO_{113}	20.8	V	G96
2009 WF_{297}	2009 11 23.23764	03 20 43.40	+18 16 10.9	2009 VO_{113}	20.6	V	G96
2009 WF_{297}	2009 12 11.12233	03 03 54.75	+17 27 25.3	2009 VO_{113}	22.0	V	G96
2009 WF_{297}	2009 12 11.12765	03 03 54.46	+17 27 24.2	2009 VO_{113}	21.5	V	G96
2009 WF_{297}	2009 12 11.13289	03 03 54.25	+17 27 23.2	2009 VO_{113}	21.7	V	G96
2009 WF_{297}	2009 12 11.13804	03 03 54.03	+17 27 23.2	2009 VO_{113}	21.8	V	G96
2009 WG_{297} *	2009 11 19.32667	03 46 40.40	+12 52 53.7	2009 WP_{19}	21.0	V	G96
2009 WG_{297}	2009 11 19.33188	03 46 40.15	+12 52 51.7	2009 WP_{19}	21.4	V	G96
2009 WG_{297}	2009 11 19.33712	03 46 39.82	+12 52 49.9	2009 WP_{19}	20.8	V	G96
2009 WG_{297}	2009 11 19.34238	03 46 39.57	+12 52 47.8	2009 WP_{19}	21.3	V	G96
2009 WH_{297} *	2009 11 22.83472	02 04 27.48	+13 57 54.7	2009 WH_{26}	20.6	C	114
2009 WH_{297}	2009 11 22.83863	02 04 27.37	+13 57 55.2	2009 WH_{26}	20.5	C	114
2009 WH_{297}	2009 11 22.84253	02 04 27.12	+13 57 54.0	2009 WH_{26}	20.3	C	114
2009 WH_{297}	2009 11 22.84644	02 04 27.01	+13 57 53.9	2009 WH_{26}	20.2	C	114
2009 WH_{297}	2009 11 22.85035	02 04 26.86	+13 57 53.2	2009 WH_{26}	20.6	C	114
2009 WJ_{297} *	2009 11 23.16471	02 20 42.10	+11 32 58.0	2009 WC_{55}	20.2	V	G96
2009 WJ_{297}	2009 11 23.17103	02 20 41.85	+11 32 57.0	2009 WC_{55}	21.3	V	G96
2009 WJ_{297}	2009 11 23.17749	02 20 41.64	+11 32 56.6	2009 WC_{55}	21.3	V	G96
2009 WJ_{297}	2009 11 23.18385	02 20 41.35	+11 32 56.0	2009 WC_{55}	21.6	V	G96
2009 WK_{297} *	2009 11 23.16417	02 16 54.40	+10 36 11.4	2009 WG_{60}	20.4	V	G96
2009 WK_{297}	2009 11 23.17046	02 16 54.19	+10 36 10.0	2009 WG_{60}	20.5	V	G96
2009 WK_{297}	2009 11 23.17689	02 16 53.90	+10 36 07.9	2009 WG_{60}	20.5	V	G96
2009 WK_{297}	2009 11 23.18328	02 16 53.65	+10 36 06.6	2009 WG_{60}	21.1	V	G96
2009 WL_{297} *	2009 11 23.31560	03 57 54.54	+13 49 33.9	2009 WC_{68}	19.7	V	G96
2009 WL_{297}	2009 11 23.32262	03 57 54.28	+13 49 33.6	2009 WC_{68}	20.1	V	G96
2009 WL_{297}	2009 11 23.32955	03 57 54.07	+13 49 33.3	2009 WC_{68}	20.0	V	G96
2009 WL_{297}	2009 11 23.33653	03 57 53.82	+13 49 32.5	2009 WC_{68}	19.9	V	G96
2009 WM_{297} *	2009 11 22.16969	03 53 25.88	+17 57 23.1	2009 WC_{96}	21.7	V	691
2009 WM_{297}	2009 11 22.18737	03 53 24.81	+17 57 20.3	2009 WC_{96}	21.8	V	691
2009 WM_{297}	2009 11 22.20504	03 53 23.76	+17 57 16.1	2009 WC_{96}	21.6	V	691
2009 WN_{297} *	2009 11 24.17405	02 53 22.92	+13 25 22.3	2009 WQ_{107}	20.4	V	G96
2009 WN_{297}	2009 11 24.17934	02 53 22.66	+13 25 22.2	2009 WQ_{107}	21.1	V	G96
2009 WN_{297}	2009 11 24.17999	02 53 22.66	+13 25 21.9	2009 WQ_{107}	20.9	V	G96
2009 WN_{297}	2009 11 24.18536	02 53 22.41	+13 25 20.7	2009 WQ_{107}	21.1	V	G96
2009 WN_{297}	2009 11 24.18594	02 53 22.30	+13 25 20.4	2009 WQ_{107}	20.7	V	G96
2009 WN_{297}	2009 11 24.19155	02 53 22.12	+13 25 19.8	2009 WQ_{107}	21.3	V	G96
2009 WN_{297}	2009 11 24.19213	02 53 22.09	+13 25 19.9	2009 WQ_{107}	21.0	V	G96
2009 WO_{297} *	2009 11 24.33032	03 09 36.46	+15 05 22.2	2009 WK_{112}	21.8	V	G96
2009 WO_{297}	2009 11 24.33645	03 09 36.18	+15 05 20.7	2009 WK_{112}	22.2	V	G96
2009 WO_{297}	2009 11 24.34243	03 09 35.96	+15 05 19.1	2009 WK_{112}	22.3	V	G96
2009 WO_{297}	2009 11 24.34824	03 09 35.71	+15 05 16.9	2009 WK_{112}	22.1	V	G96
2009 WP_{297} *	2009 11 24.13639	01 49 25.68	+11 06 25.6	2009 WV_{114}	20.6	V	G96
2009 WP_{297}	2009 11 24.14229	01 49 25.53	+11 06 25.8	2009 WV_{114}	21.7	V	G96
2009 WP_{297}	2009 11 24.14829	01 49 25.35	+11 06 25.4	2009 WV_{114}	21.1	V	G96
2009 WP_{297}	2009 11 24.15434	01 49 25.17	+11 06 25.9	2009 WV_{114}	22.2	V	G96
2009 WQ_{297} *	2009 11 24.13524	01 50 19.32	+13 26 07.3	2009 WJ_{115}	21.0	V	G96
2009 WQ_{297}	2009 11 24.14110	01 50 19.06	+13 26 08.4	2009 WJ_{115}	20.6	V	G96
2009 WQ_{297}	2009 11 24.14708	01 50 18.81	+13 26 09.0	2009 WJ_{115}	20.7	V	G96
2009 WQ_{297}	2009 11 24.15317	01 50 18.52	+13 26 09.9	2009 WJ_{115}	21.0	V	G96
2009 WR_{297} *	2009 11 24.13696	01 47 37.64	+09 47 51.1	2009 WK_{115}	21.7	V	G96
2009 WR_{297}	2009 11 24.14287	01 47 37.42	+09 47 52.4	2009 WK_{115}	21.4	V	G96
2009 WR_{297}	2009 11 24.14890	01 47 37.24	+09 47 52.6	2009 WK_{115}	20.9	V	G96
2009 WR_{297}	2009 11 24.15491	01 47 37.03	+09 47 53.1	2009 WK_{115}	22.0	V	G96
2009 WS_{297} *	2009 11 24.13755	01 47 28.96	+09 45 23.4	2009 WL_{115}	21.9	V	G96
2009 WS_{297}	2009 11 24.14345	01 47 28.78	+09 45 24.1	2009 WL_{115}	20.9	V	G96
2009 WS_{297}	2009 11 24.14955	01 47 28.53	+09 45 24.6	2009 WL_{115}	21.0	V	G96
2009 WS_{297}	2009 11 24.15558	01 47 28.35	+09 45 25.3	2009 WL_{115}	21.4	V	G96
2009 WT_{297} *	2009 11 24.17864	03 39 09.50	+20 05 53.6	2009 WL_{118}	21.0	V	691
2009 WT_{297}	2009 11 24.19643	03 39 08.45	+20 05 51.8	2009 WL_{118}	21.4	V	691
2009 WT_{297}	2009 11 24.21421	03 39 07.43	+20 05 49.6	2009 WL_{118}	21.1	V	691
2009 WT_{297}	2009 11 24.29723	03 39 02.62	+20 05 39.8	2009 WL_{118}	21.0	V	G96
2009 WT_{297}	2009 11 24.30314	03 39 02.26	+20 05 39.4	2009 WL_{118}	21.3	V	G96
2009 WT_{297}	2009 11 24.30890	03 39 01.98	+20 05 38.3	2009 WL_{118}	20.9	V	G96
2009 WT_{297}	2009 11 24.31479	03 39 01.62	+20 05 38.0	2009 WL_{118}	20.7	V	G96
2009 WU_{297} *	2009 11 24.18330	03 38 15.30	+16 08 43.3	2009 WD_{138}	21.4	V	291
2009 WU_{297}	2009 11 24.18725	03 38 15.06	+16 08 43.3	2009 WD_{138}	21.7	V	291
2009 WU_{297}	2009 11 24.19122	03 38 14.79	+16 08 42.8	2009 WD_{138}	21.6	V	291
2009 WV_{297} *	2009 11 25.16672	01 50 33.68	+10 59 46.3	2009 WM_{143}	20.4	V	G96
2009 WV_{297}	2009 11 25.17253	01 50 33.54	+10 59 46.1	2009 WM_{143}	20.1	V	G96
2009 WV_{297}	2009 11 25.17845	01 50 33.36	+10 59 46.1	2009 WM_{143}	20.2	V	G96
2009 WV_{297}	2009 11 25.18429	01 50 33.18	+10 59 45.4	2009 WM_{143}	20.1	V	G96
2009 WW_{297} *	2009 11 25.16730	01 53 00.81	+12 16 07.3	2009 WR_{143}	20.6	V	G96
2009 WW_{297}	2009 11 25.17315	01 53 00.67	+12 16 04.8	2009 WR_{143}	21.4	V	G96
2009 WW_{297}	2009 11 25.17907	01 53 00.56	+12 16 03.5	2009 WR_{143}	20.6	V	G96
2009 WW_{297}	2009 11 25.18488	01 53 00.38	+12 16 00.8	2009 WR_{143}	20.3	V	G96
2009 WX_{297} *	2009 11 25.28806	03 36 09.18	+10 39 46.4	2009 WG_{149}	21.4	V	G96
2009 WX_{297}	2009 11 25.29366	03 36 08.89	+10 39 45.6	2009 WG_{149}	21.3	V	G96
2009 WX_{297}	2009 11 25.29933	03 36 08.56	+10 39 44.8	2009 WG_{149}	21.6	V	G96
2009 WX_{297}	2009 11 25.30520	03 36 08.24	+10 39 44.3	2009 WG_{149}	21.4	V	G96
2009 WY_{297} *	2009 11 25.28806	03 36 16.41	+10 44 27.6	2009 WH_{149}	21.3	V	G96
2009 WY_{297}	2009 11 25.29366	03 36 16.12	+10 44 26.4	2009 WH_{149}	20.8	V	G96
2009 WY_{297}	2009 11 25.29933	03 36 15.84	+10 44 25.8	2009 WH_{149}	20.9	V	G96
2009 WY_{297}	2009 11 25.30520	03 36 15.55	+10 44 25.5	2009 WH_{149}	20.9	V	G96
2009 WZ_{297} *	2009 11 25.30889	03 41 09.06	+12 20 17.2	2009 WA_{151}	20.7	V	G96
2009 WZ_{297}	2009 11 25.31407	03 41 08.73	+12 20 15.5	2009 WA_{151}	20.8	V	G96
2009 WZ_{297}	2009 11 25.31943	03 41 08.44	+12 20 13.5	2009 WA_{151}	20.9	V	G96
2009 WZ_{297}	2009 11 25.32488	03 41 08.12	+12 20 11.1	2009 WA_{151}	20.9	V	G96
2009 WA_{298} *	2009 11 25.30947	03 46 39.68	+12 13 56.5	2009 WX_{151}	20.5	V	G96
2009 WA_{298}	2009 11 25.31466	03 46 39.36	+12 13 55.6	2009 WX_{151}	20.9	V	G96
2009 WA_{298}	2009 11 25.32001	03 46 39.00	+12 13 54.2	2009 WX_{151}	20.4	V	G96
2009 WA_{298}	2009 11 25.32547	03 46 38.64	+12 13 53.4	2009 WX_{151}	20.2	V	G96

2009 WB_{298}	*2009 11 17.33583	03 35 23.13	+12 46 54.1	2009 WH_{196}	21.0	V	G96
2009 WB_{298}	2009 11 17.34257	03 35 22.77	+12 46 51.2	2009 WH_{196}	21.1	V	G96
2009 WB_{298}	2009 11 17.34923	03 35 22.38	+12 46 50.2	2009 WH_{196}	21.2	V	G96
2009 WB_{298}	2009 11 17.35594	03 35 21.98	+12 46 47.5	2009 WH_{196}	21.6	V	G96
2009 WC_{298}	*2009 11 17.43051	04 53 23.35	+12 14 39.1	2009 WZ_{201}	20.1	V	703
2009 WC_{298}	2009 11 17.43843	04 53 22.88	+12 14 43.0	2009 WZ_{201}	20.0	V	703
2009 WC_{298}	2009 11 17.44635	04 53 22.56	+12 14 43.9	2009 WZ_{201}	20.0	V	703
2009 WC_{298}	2009 11 17.45427	04 53 22.20	+12 14 44.7	2009 WZ_{201}	20.1	V	703
2009 WD_{298}	*2009 11 25.15421	02 05 49.56	+26 01 24.8	2009 WO_{213}	20.0	V	703
2009 WD_{298}	2009 11 25.16222	02 05 49.20	+26 01 20.9	2009 WO_{213}	20.4	V	703
2009 WD_{298}	2009 11 25.17022	02 05 48.91	+26 01 18.0	2009 WO_{213}	19.8	V	703
2009 WD_{298}	2009 11 25.17873	02 05 48.69	+26 01 15.3	2009 WO_{213}	20.0	V	703
2009 WE_{298}	*2009 11 20.25551	02 23 36.32	+15 42 15.8	2009 WQ_{225}	21.7	V	291
2009 WE_{298}	2009 11 20.25961	02 23 36.11	+15 42 14.8	2009 WQ_{225}	21.8	V	291
2009 WE_{298}	2009 11 20.26356	02 23 35.96	+15 42 14.0	2009 WQ_{225}	22.3	V	291
2009 WF_{298}	*2009 11 24.33032	03 09 16.52	+15 06 46.1	2009 WV_{225}	21.3	V	G96
2009 WF_{298}	2009 11 24.33645	03 09 16.27	+15 06 43.5	2009 WV_{225}	20.8	V	G96
2009 WF_{298}	2009 11 24.34243	03 09 16.02	+15 06 41.7	2009 WV_{225}	21.1	V	G96
2009 WF_{298}	2009 11 24.34824	03 09 15.73	+15 06 40.1	2009 WV_{225}	21.1	V	G96
2009 WG_{298}	*2009 11 24.32747	03 31 17.79	+14 16 02.3	2009 WE_{267}	20.8	V	G96
2009 WG_{298}	2009 11 24.33336	03 31 17.50	+14 16 01.3	2009 WE_{267}	20.9	V	G96
2009 WG_{298}	2009 11 24.33937	03 31 17.22	+14 16 01.3	2009 WE_{267}	20.7	V	G96
2009 WG_{298}	2009 11 24.34535	03 31 16.86	+14 16 01.3	2009 WE_{267}	20.7	V	G96
2009 WH_{298}	*2009 11 24.99610	04 34 35.23	+15 17 42.2	2009 XO_9	19.8	V	J75
2009 WH_{298}	2009 11 25.00906	04 34 34.41	+15 17 41.5	2009 XO_9	19.5	V	J75
2009 WH_{298}	2009 11 25.02194	04 34 33.64	+15 17 41.8	2009 XO_9	19.4	V	J75
2009 XK_{30}	*2009 12 11.36285	04 55 59.12	+26 32 27.0	2009 VF_{100}	20.2	V	G96
2009 XK_{30}	2009 12 11.36797	04 55 58.83	+26 32 27.2	2009 VF_{100}	19.8	V	G96
2009 XK_{30}	2009 12 11.37315	04 55 58.47	+26 32 27.6	2009 VF_{100}	20.6	V	G96
2009 XK_{30}	2009 12 11.37833	04 55 58.18	+26 32 27.3	2009 VF_{100}	19.9	V	G96
2009 XL_{30}	*2009 12 11.38108	05 14 25.94	+25 34 47.8	2009 WN_{42}	20.7	V	G96
2009 XL_{30}	2009 12 11.38634	05 14 25.54	+25 34 46.3	2009 WN_{42}	20.1	V	G96
2009 XL_{30}	2009 12 11.39156	05 14 25.18	+25 34 45.8	2009 WN_{42}	20.3	V	G96
2009 XL_{30}	2009 12 11.39684	05 14 24.79	+25 34 44.6	2009 WN_{42}	20.1	V	G96
2009 XM_{30}	*2009 12 11.38458	05 08 18.85	+26 45 41.1	2009 WA_{164}	21.1	V	G96
2009 XM_{30}	2009 12 11.38983	05 08 18.45	+26 45 41.4	2009 WA_{164}	20.8	V	G96
2009 XM_{30}	2009 12 11.40040	05 08 17.62	+26 45 42.8	2009 WA_{164}	21.1	V	G96
2009 XN_{30}	*2009 12 10.34980	05 20 41.06	+22 48 02.8	2009 WB_{166}	20.4	V	G96
2009 XN_{30}	2009 12 10.35532	05 20 40.74	+22 48 02.1	2009 WB_{166}	20.6	V	G96
2009 XN_{30}	2009 12 10.36088	05 20 40.41	+22 48 00.0	2009 WB_{166}	20.4	V	G96
2009 XN_{30}	2009 12 10.36639	05 20 40.02	+22 47 58.7	2009 WB_{166}	20.5	V	G96
2009 XO_{30}	*2009 12 11.29778	04 39 07.16	+17 05 28.5	2009 WH_{181}	19.4	V	703
2009 XO_{30}	2009 12 11.30498	04 39 06.66	+17 05 28.7	2009 WH_{181}	19.8	V	703
2009 XO_{30}	2009 12 11.31221	04 39 06.26	+17 05 28.9	2009 WH_{181}	19.4	V	703
2009 XO_{30}	2009 12 11.31942	04 39 05.72	+17 05 28.7	2009 WH_{181}	19.2	V	703
2009 XP_{30}	*2009 12 10.32353	05 06 26.28	+20 41 30.3	2009 WX_{203}	20.7	V	G96
2009 XP_{30}	2009 12 10.33013	05 06 25.88	+20 41 29.4	2009 WX_{203}	20.8	V	G96
2009 XP_{30}	2009 12 10.33654	05 06 25.52	+20 41 28.7	2009 WX_{203}	20.6	V	G96
2009 XP_{30}	2009 12 10.34325	05 06 25.09	+20 41 27.7	2009 WX_{203}	20.4	V	G96
2009 XQ_{30}	*2009 12 11.40631	05 20 33.18	+28 04 08.6	2009 WA_{242}	17.9	V	G96
2009 XQ_{30}	2009 12 11.41554	05 20 32.53	+28 04 08.6	2009 WA_{242}	17.7	V	G96
2009 XQ_{30}	2009 12 11.42028	05 20 32.31	+28 04 07.7	2009 WA_{242}	18.6	V	G96
2009 XR_{30}	*2009 12 11.35994	04 47 45.96	+25 59 46.4	2009 WY_{253}	20.7	V	G96
2009 XR_{30}	2009 12 11.36508	04 47 45.63	+25 59 45.9	2009 WY_{253}	20.5	V	G96
2009 XR_{30}	2009 12 11.37025	04 47 45.27	+25 59 46.5	2009 WY_{253}	20.8	V	G96
2009 XR_{30}	2009 12 11.37542	04 47 44.88	+25 59 46.5	2009 WY_{253}	20.9	V	G96
2009 XS_{30}	*2009 12 11.23990	04 36 08.38	+19 29 09.8	2009 WH_{256}	20.8	V	G96
2009 XS_{30}	2009 12 11.24506	04 36 08.13	+19 29 09.4	2009 WH_{256}	20.8	V	G96
2009 XS_{30}	2009 12 11.25020	04 36 07.81	+19 29 09.6	2009 WH_{256}	20.2	V	G96
2009 XS_{30}	2009 12 11.25530	04 36 07.56	+19 29 08.5	2009 WH_{256}	20.6	V	G96
2009 XT_{30}	*2009 12 13.21373	05 10 11.96	+28 10 24.2	2009 WB_{259}	20.4	V	G96
2009 XT_{30}	2009 12 13.21789	05 10 11.67	+28 10 24.4	2009 WB_{259}	20.4	V	G96
2009 XT_{30}	2009 12 13.22196	05 10 11.46	+28 10 24.4	2009 WB_{259}	20.3	V	G96
2009 XT_{30}	2009 12 13.22596	05 10 11.17	+28 10 24.5	2009 WB_{259}	20.3	V	G96
2009 YV_{33}	*2009 12 18.31284	05 01 28.38	+30 20 13.9	2009 WE_{90}	21.0	V	G96
2009 YV_{33}	2009 12 18.32115	05 01 27.84	+30 20 14.7	2009 WE_{90}	20.6	V	G96
2009 YV_{33}	2009 12 18.32948	05 01 27.26	+30 20 15.4	2009 WE_{90}	19.9	V	G96
2009 YW_{33}	*2009 12 19.31122	05 10 23.52	+22 22 40.4	2009 WE_{204}	19.9	V	G96
2009 YW_{33}	2009 12 19.31766	05 10 23.05	+22 22 41.7	2009 WE_{204}	19.3	V	G96
2009 YW_{33}	2009 12 19.32409	05 10 22.69	+22 22 42.5	2009 WE_{204}	19.2	V	G96
2009 YX_{33}	*2009 12 19.08168	03 38 40.85	+19 49 54.3	2009 WG_{236}	21.0	V	691
2009 YX_{33}	2009 12 19.09756	03 38 40.31	+19 49 48.6	2009 WG_{236}	21.1	V	691
2009 YX_{33}	2009 12 19.11344	03 38 39.79	+19 49 43.3	2009 WG_{236}	20.7	V	691
2010 AC_{164}	*2010 01 08.28849	07 16 57.39	+20 08 27.2	2009 XY_{10}	21.1	V	G96
2010 AC_{164}	2010 01 08.29441	07 16 56.96	+20 08 26.5	2009 XY_{10}	21.6	V	G96
2010 AC_{164}	2010 01 08.30037	07 16 56.64	+20 08 27.1	2009 XY_{10}	20.6	V	G96
2010 AC_{164}	2010 01 08.30626	07 16 56.20	+20 08 27.8	2009 XY_{10}	20.6	V	G96
2010 AC_{164}	2010 01 08.31216	07 16 55.88	+20 08 28.0	2009 XY_{10}	21.2	V	G96
2010 AD_{164}	*2010 01 07.38927	08 07 10.74	+19 52 42.1	2009 YW_{16}	20.6	V	G96
2010 AD_{164}	2010 01 07.39639	08 07 10.34	+19 52 42.7	2009 YW_{16}	21.5	V	G96
2010 AD_{164}	2010 01 07.40356	08 07 09.91	+19 52 43.4	2009 YW_{16}	21.8	V	G96
2010 AD_{164}	2010 01 07.41079	08 07 09.48	+19 52 45.1	2009 YW_{16}	20.2	V	G96
2010 AE_{164}	*2010 01 13.80553	08 24 59.07	+16 24 57.7	2010 AR_{40}	21.7	R	300
2010 AE_{164}	2010 01 13.80952	08 24 58.84	+16 24 59.0	2010 AR_{40}	20.9	R	300
2010 AF_{164}	*2010 01 12.25882	07 09 01.36	+23 53 15.6	2010 AS_{45}	21.1	V	G96
2010 AF_{164}	2010 01 12.26584	07 09 00.97	+23 53 16.7	2010 AS_{45}	20.8	V	G96
2010 AF_{164}	2010 01 12.27270	07 09 00.61	+23 53 18.5	2010 AS_{45}	21.3	V	G96
2010 AF_{164}	2010 01 12.27751	07 09 00.32	+23 53 18.9	2010 AS_{45}	21.4	V	G96
2010 AG_{164}	*2010 01 12.22430	08 33 55.51	+10 27 12.6	2010 AP_{48}			691
2010 AG_{164}	2010 01 12.24199	08 33 54.61	+10 27 14.9	2010 AP_{48}			691
2010 AG_{164}	2010 01 12.25969	08 33 53.70	+10 27 17.5	2010 AP_{48}			691
2010 AH_{164}	*2010 01 13.18690	07 10 50.41	+23 18 21.4	2010 AK_{62}	20.3	V	G96
2010 AH_{164}	2010 01 13.20170	07 10 49.33	+23 18 20.8	2010 AK_{62}	20.3	V	G96
2010 AH_{164}	2010 01 13.20913	07 10 48.79	+23 18 20.7	2010 AK_{62}	20.5	V	G96
2010 CM_{276}	*2010 02 14.28067	08 25 44.14	+14 12 22.6	2010 AW_{22}	20.4	V	703
2010 CM_{276}	2010 02 14.28590	08 25 43.82	+14 12 23.6	2010 AW_{22}	20.2	V	703
2010 CM_{276}	2010 02 14.29109	08 25 43.57	+14 12 23.4	2010 AW_{22}	20.3	V	703
2010 CM_{276}	2010 02 14.29633	08 25 43.21	+14 12 23.3	2010 AW_{22}	20.4	V	703
2010 CN_{276}	*2010 02 14.31490	09 44 11.29	+14 35 12.2	2010 CS_{168}	21.0	V	G96
2010 CN_{276}	2010 02 14.32164	09 44 10.96	+14 35 13.7	2010 CS_{168}	21.9	V	G96
2010 CN_{276}	2010 02 14.32836	09 44 10.64	+14 35 15.4	2010 CS_{168}	21.3	V	G96
2010 CN_{276}	2010 02 14.33510	09 44 10.24	+14 35 17.3	2010 CS_{168}	21.4	V	G96
2010 CN_{276}	2010 02 14.34181	09 44 09.92	+14 35 18.4	2010 CS_{168}	21.4	V	G96
2010 CO_{276}	*2010 02 15.22633	10 17 42.07	+08 45 09.5	2010 CV_{169}	19.6	V	703
2010 CO_{276}	2010 02 15.23249	10 17 41.74	+08 45 10.8	2010 CV_{169}	20.1	V	703
2010 CO_{276}	2010 02 15.23868	10 17 41.53	+08 45 14.0	2010 CV_{169}	19.4	V	703

2010 CO_{276}	2010 02 15.24486	10 17 41.24	+08 45 16.9	2010 CV_{169}	19.4	V	703
2010 DN_{114}	*2010 02 16.26410	09 41 24.92	+11 45 33.2	2010 CQ_{73}	21.5	V	291
2010 DN_{114}	2010 02 16.26794	09 41 24.77	+11 45 34.0	2010 CQ_{73}	21.5	V	291
2010 DN_{114}	2010 02 16.27205	09 41 24.50	+11 45 35.5	2010 CQ_{73}	22.1	V	291
2010 DO_{114}	*2010 02 16.23298	10 42 23.45	+12 23 35.1	2010 CA_{96}	21.1	V	291
2010 DO_{114}	2010 02 16.23681	10 42 23.33	+12 23 36.2	2010 CA_{96}	21.1	V	291
2010 DO_{114}	2010 02 16.24057	10 42 23.17	+12 23 37.3	2010 CA_{96}	20.9	V	291
2010 DP_{114}	*2010 02 16.24756	10 48 45.59	+09 40 49.1	2010 CB_{124}	21.7	V	291
2010 DP_{114}	2010 02 16.25162	10 48 45.42	+09 40 50.5	2010 CB_{124}	21.7	V	291
2010 DP_{114}	2010 02 16.26062	10 48 44.99	+09 40 53.1	2010 CB_{124}	21.5	V	291
2010 DQ_{114}	*2010 02 16.38699	09 58 24.52	+22 23 29.7	2010 CF_{143}	20.4	V	G96
2010 DQ_{114}	2010 02 16.39409	09 58 24.13	+22 23 31.8	2010 CF_{143}	21.0	V	G96
2010 DQ_{114}	2010 02 16.40123	09 58 23.73	+22 23 32.4	2010 CF_{143}	21.2	V	G96
2010 DQ_{114}	2010 02 16.40829	09 58 23.34	+22 23 33.9	2010 CF_{143}	21.5	V	G96
2010 DR_{114}	*2010 02 19.32747	10 27 43.09	+05 34 16.1	2010 CD_{161}	20.7	V	G96
2010 DR_{114}	2010 02 19.33229	10 27 42.84	+05 34 19.8	2010 CD_{161}	20.9	V	G96
2010 DR_{114}	2010 02 19.33714	10 27 42.66	+05 34 23.5	2010 CD_{161}	20.0	V	G96
2010 DS_{114}	*2010 02 17.28523	08 58 46.66	+17 55 16.2	2010 CN_{163}	22.5	V	G96
2010 DS_{114}	2010 02 17.28704	08 58 46.52	+17 55 16.7	2010 CN_{163}	22.1	V	G96
2010 DS_{114}	2010 02 17.28883	08 58 46.45	+17 55 17.7	2010 CN_{163}	22.2	V	G96
2010 DS_{114}	2010 02 17.29062	08 58 46.34	+17 55 18.0	2010 CN_{163}	22.8	V	G96
2010 DT_{114}	*2010 02 16.33417	10 19 25.75	+10 05 21.6	2010 CH_{173}	20.8	V	G96
2010 DT_{114}	2010 02 16.34083	10 19 25.42	+10 05 23.4	2010 CH_{173}	20.7	V	G96
2010 DT_{114}	2010 02 16.34745	10 19 25.14	+10 05 25.4	2010 CH_{173}	21.1	V	G96
2010 DU_{114}	*2010 02 17.19226	07 22 00.40	+21 52 10.3	2010 CO_{250}	22.3	V	G96
2010 DU_{114}	2010 02 17.19753	07 22 00.26	+21 52 10.0	2010 CO_{250}	22.3	V	G96
2010 DU_{114}	2010 02 17.20291	07 22 00.08	+21 52 10.4	2010 CO_{250}	22.1	V	G96
2010 DU_{114}	2010 02 17.20831	07 22 00.01	+21 52 09.5	2010 CO_{250}	21.9	V	G96
2010 DV_{114}	*2010 02 17.43775	10 31 27.51	+10 38 57.5	2010 DP_{9}	20.3	V	G96
2010 DV_{114}	2010 02 17.44288	10 31 27.30	+10 38 59.1	2010 DP_{9}	20.3	V	G96
2010 DV_{114}	2010 02 17.44803	10 31 27.04	+10 39 00.7	2010 DP_{9}	19.9	V	G96
2010 DV_{114}	2010 02 17.45315	10 31 26.79	+10 39 02.1	2010 DP_{9}	20.1	V	G96
2010 EX_{191}	*2010 03 13.22054	08 49 54.48	+17 33 17.5	2010 CP_{27}	21.3	V	G96
2010 EX_{191}	2010 03 13.22584	08 49 54.33	+17 33 18.2	2010 CP_{27}	21.2	V	G96
2010 EX_{191}	2010 03 13.23116	08 49 54.22	+17 33 18.3	2010 CP_{27}	21.3	V	G96
2010 EX_{191}	2010 03 13.23647	08 49 54.12	+17 33 19.6	2010 CP_{27}	21.2	V	G96
2010 EY_{191}	*2010 03 14.24527	10 27 38.73	+10 35 48.9	2010 CS_{149}	21.1	V	G96
2010 EY_{191}	2010 03 14.25368	10 27 38.37	+10 35 50.5	2010 CS_{149}	21.5	V	G96
2010 EY_{191}	2010 03 14.26206	10 27 38.01	+10 35 52.8	2010 CS_{149}	20.8	V	G96
2010 EZ_{191}	*2010 03 13.31281	11 20 59.49	−00 48 41.2	2010 CQ_{167}	21.5	V	G96
2010 EZ_{191}	2010 03 13.32303	11 20 58.95	−00 48 37.1	2010 CQ_{167}	21.1	V	G96
2010 EZ_{191}	2010 03 13.33333	11 20 58.45	−00 48 32.8	2010 CQ_{167}	21.3	V	G96
2010 EZ_{191}	2010 03 13.34377	11 20 57.91	−00 48 28.1	2010 CQ_{167}	21.4	V	G96
2010 EA_{192}	*2010 03 13.27436	11 23 10.28	+02 16 04.4	2010 DZ_{6}	20.6	V	G96
2010 EA_{192}	2010 03 13.28250	11 23 09.78	+02 16 05.8	2010 DZ_{6}	20.8	V	G96
2010 EA_{192}	2010 03 13.29069	11 23 09.27	+02 16 06.9	2010 DZ_{6}	20.3	V	G96
2010 EA_{192}	2010 03 13.29885	11 23 08.80	+02 16 08.1	2010 DZ_{6}	20.5	V	G96
2010 EB_{192}	*2010 03 13.22054	08 52 07.96	+17 44 35.7	2010 EN_{41}	20.9	V	G96
2010 EB_{192}	2010 03 13.22584	08 52 07.86	+17 44 36.3	2010 EN_{41}	21.3	V	G96
2010 EB_{192}	2010 03 13.23116	08 52 07.71	+17 44 37.3	2010 EN_{41}	21.5	V	G96
2010 EB_{192}	2010 03 13.23647	08 52 07.60	+17 44 37.9	2010 EN_{41}	20.9	V	G96
2010 FR_{145}	*2010 03 18.27575	10 30 42.19	+10 05 38.8	2010 EM_{91}	21.8	V	G96
2010 FR_{145}	2010 03 18.28206	10 30 41.90	+10 05 40.5	2010 EM_{91}	22.3	V	G96
2010 FR_{145}	2010 03 18.28843	10 30 41.68	+10 05 42.5	2010 EM_{91}	21.2	V	G96
2010 FR_{145}	2010 03 18.29472	10 30 41.43	+10 05 45.2	2010 EM_{91}	21.2	V	G96
2010 FS_{145}	*2010 03 20.41564	14 20 24.11	−11 11 14.1	2010 EX_{142}	21.0	V	691
2010 FS_{145}	2010 03 20.43337	14 20 23.63	−11 11 13.2	2010 EX_{142}	21.3	V	691
2010 FS_{145}	2010 03 20.45108	14 20 23.15	−11 11 12.8	2010 EX_{142}	21.1	V	691
2010 FT_{145}	*2010 03 19.18965	12 21 32.40	+04 12 41.4	2010 FU_{21}	21.3	V	691
2010 FT_{145}	2010 03 19.20732	12 21 31.51	+04 12 46.6	2010 FU_{21}	20.7	V	691
2010 FT_{145}	2010 03 19.22499	12 21 30.58	+04 12 52.3	2010 FU_{21}	21.1	V	691
2010 FU_{145}	*2010 03 21.27581	11 33 56.55	+03 29 46.7	2010 FA_{97}	20.9	V	G96
2010 FU_{145}	2010 03 21.28178	11 33 56.23	+03 29 47.3	2010 FA_{97}	21.3	V	G96
2010 FU_{145}	2010 03 21.28771	11 33 55.94	+03 29 47.5	2010 FA_{97}	21.6	V	G96
2010 FU_{145}	2010 03 21.29375	11 33 55.58	+03 29 47.9	2010 FA_{97}	21.3	V	G96
2010 FV_{145}	*2010 03 19.25459	10 22 10.41	+11 59 33.1	2010 FR_{97}	20.3	V	G96
2010 FV_{145}	2010 03 19.25994	10 22 10.12	+11 59 33.7	2010 FR_{97}	20.8	V	G96
2010 FV_{145}	2010 03 19.26530	10 22 09.84	+11 59 34.2	2010 FR_{97}	20.6	V	G96
2010 FV_{145}	2010 03 19.27066	10 22 09.62	+11 59 34.4	2010 FR_{97}	20.8	V	G96
2010 FX_{145}	*2010 03 18.16575	09 18 14.32	+18 27 26.5	2013 YB_{76}	21.8	V	G96
2010 FX_{145}	2010 03 18.17211	09 18 14.14	+18 27 27.2	2013 YB_{76}	21.2	V	G96
2010 FX_{145}	2010 03 18.17837	09 18 14.00	+18 27 27.2	2013 YB_{76}	21.6	V	G96
2010 GD_{211}	*2010 04 11.22975	11 06 32.61	+08 53 58.9	2010 EZ_{93}	22.2	V	G96
2010 GD_{211}	2010 04 11.23625	11 06 32.50	+08 53 59.3	2010 EZ_{93}	21.6	V	G96
2010 GD_{211}	2010 04 11.24280	11 06 32.29	+08 53 59.4	2010 EZ_{93}	21.9	V	G96
2010 GD_{211}	2010 04 11.24940	11 06 32.04	+08 54 00.1	2010 EZ_{93}	21.3	V	G96
2010 GE_{211}	*2010 04 15.35525	13 27 28.54	+00 41 01.5	2010 EK_{99}	19.4	V	703
2010 GE_{211}	2010 04 15.36212	13 27 28.15	+00 41 06.0	2010 EK_{99}	19.7	V	703
2010 GE_{211}	2010 04 15.36914	13 27 27.86	+00 41 11.2	2010 EK_{99}	19.6	V	703
2010 GF_{211}	*2010 04 04.20286	13 39 21.53	−04 35 35.2	2010 ET_{108}	21.2	V	691
2010 GF_{211}	2010 04 04.22049	13 39 20.55	−04 35 30.7	2010 ET_{108}	21.2	V	691
2010 GF_{211}	2010 04 04.23813	13 39 19.60	−04 35 24.5	2010 ET_{108}	21.2	V	691
2010 GG_{211}	*2010 04 11.25713	11 56 23.46	+05 25 10.5	2010 FT_{4}	21.6	V	G96
2010 GG_{211}	2010 04 11.26418	11 56 23.17	+05 25 13.0	2010 FT_{4}	21.0	V	G96
2010 GG_{211}	2010 04 11.27131	11 56 22.88	+05 25 15.7	2010 FT_{4}	21.2	V	G96
2010 GG_{211}	2010 04 11.27852	11 56 22.56	+05 25 18.1	2010 FT_{4}	21.7	V	G96
2010 GH_{211}	*2010 04 15.32903	12 59 00.60	−00 00 08.7	2010 FC_{14}	19.4	V	703
2010 GH_{211}	2010 04 15.33602	12 59 00.31	−00 00 07.7	2010 FC_{14}	18.9	V	703
2010 GH_{211}	2010 04 15.34301	12 58 59.70	−00 00 06.5	2010 FC_{14}	19.4	V	703
2010 GH_{211}	2010 04 15.35004	12 58 59.34	−00 00 04.8	2010 FC_{14}	19.0	V	703
2010 GJ_{211}	*2010 04 02.91207	13 07 07.20	−09 36 19.4	2010 FW_{84}	19.5	V	J75
2010 GJ_{211}	2010 04 02.92608	13 07 06.50	−09 36 12.8	2010 FW_{84}	19.5	V	J75
2010 GJ_{211}	2010 04 02.94007	13 07 05.81	−09 36 06.3	2010 FW_{84}	19.7	V	J75
2010 GJ_{211}	2010 04 15.26648	12 57 47.77	−08 08 07.7	2010 FW_{84}	21.1	V	G96
2010 GJ_{211}	2010 04 15.27351	12 57 47.48	−08 08 04.9	2010 FW_{84}	21.7	V	G96
2010 GJ_{211}	2010 04 15.28052	12 57 47.19	−08 08 01.9	2010 FW_{84}	21.2	V	G96
2010 GJ_{211}	2010 04 15.28759	12 57 46.87	−08 07 58.4	2010 FW_{84}	21.0	V	G96
2010 GK_{211}	*2010 04 09.25596	12 01 28.20	+00 04 32.0	2010 FO_{93}	21.1	V	G96
2010 GK_{211}	2010 04 09.26301	12 01 27.87	+00 04 35.1	2010 FO_{93}	20.6	V	G96
2010 GK_{211}	2010 04 09.27014	12 01 27.55	+00 04 37.9	2010 FO_{93}	20.7	V	G96
2010 GK_{211}	2010 04 09.27728	12 01 27.26	+00 04 41.7	2010 FO_{93}	20.8	V	G96
2010 GL_{211}	*2010 04 05.29361	11 46 13.29	+01 50 19.2	2010 FO_{99}	21.8	V	G96
2010 GL_{211}	2010 04 05.29956	11 46 13.00	+01 50 20.2	2010 FO_{99}	21.2	V	G96
2010 GL_{211}	2010 04 05.30556	11 46 12.75	+01 50 20.5	2010 FO_{99}	21.1	V	G96
2010 GL_{211}	2010 04 05.31152	11 46 12.46	+01 50 21.3	2010 FO_{99}	21.1	V	G96
2010 GM_{211}	*2010 04 14.30608	13 23 41.49	−05 18 09.2	2010 FC_{101}	21.5	V	G96

2010 GM_{211}	2010 04 14.31256	13 23 41.17	−05 18 06.2	2010 FC_{101}	21.2	V	G96
2010 GM_{211}	2010 04 14.31914	13 23 40.84	−05 18 02.8	2010 FC_{101}	21.3	V	G96
2010 GM_{211}	2010 04 14.32575	13 23 40.52	−05 17 59.2	2010 FC_{101}	21.6	V	G96
2010 GN_{211}	*2010 04 15.26414	12 55 19.77	−09 09 27.8	2010 GN_{129}	20.8	V	G96
2010 GN_{211}	2010 04 15.27115	12 55 19.41	−09 09 25.8	2010 GN_{129}	21.3	V	G96
2010 GN_{211}	2010 04 15.27817	12 55 19.05	−09 09 23.5	2010 GN_{129}	21.2	V	G96
2010 GN_{211}	2010 04 15.28523	12 55 18.69	−09 09 20.8	2010 GN_{129}	21.0	V	G96
2010 GO_{211}	*2010 04 10.33358	12 58 57.32	−02 07 13.6	2010 GB_{131}	22.0	V	G96
2010 GO_{211}	2010 04 10.34012	12 58 57.00	−02 07 11.1	2010 GB_{131}	21.6	V	G96
2010 GO_{211}	2010 04 10.34670	12 58 56.60	−02 07 08.6	2010 GB_{131}	21.2	V	G96
2010 GO_{211}	2010 04 10.35336	12 58 56.24	−02 07 07.5	2010 GB_{131}	22.5	V	G96
2010 GP_{211}	*2010 04 14.22775	14 10 34.07	−02 50 08.2	2010 GM_{131}	21.3	V	691
2010 GP_{211}	2010 04 14.24292	14 10 33.34	−02 50 02.0	2010 GM_{131}	21.1	V	691
2010 GP_{211}	2010 04 14.25808	14 10 32.58	−02 49 53.6	2010 GM_{131}	21.1	V	691
2010 GQ_{211}	*2010 04 14.36895	14 25 11.85	−02 07 19.5	2010 GL_{142}	21.6	V	G96
2010 GQ_{211}	2010 04 14.37605	14 25 11.53	−02 07 17.5	2010 GL_{142}	21.0	V	G96
2010 GQ_{211}	2010 04 14.38313	14 25 11.20	−02 07 15.7	2010 GL_{142}	21.4	V	G96
2010 GQ_{211}	2010 04 14.39140	14 25 10.81	−02 07 12.9	2010 GL_{142}	21.2	V	G96
2010 GR_{211}	*2010 04 15.35201	13 53 27.02	−14 41 49.2	2010 GO_{142}	21.1	V	G96
2010 GR_{211}	2010 04 15.35909	13 53 26.59	−14 41 48.8	2010 GO_{142}	21.3	V	G96
2010 GR_{211}	2010 04 15.36620	13 53 26.16	−14 41 47.0	2010 GO_{142}	20.8	V	G96
2010 GR_{211}	2010 04 15.37328	13 53 25.69	−14 41 46.5	2010 GO_{142}	21.0	V	G96
2010 GS_{211}	*2010 04 15.32958	13 05 22.23	−05 30 37.6	2010 GR_{159}	19.9	V	703
2010 GS_{211}	2010 04 15.33660	13 05 21.76	−05 30 37.2	2010 GR_{159}	19.8	V	703
2010 GS_{211}	2010 04 15.34360	13 05 21.40	−05 30 36.2	2010 GR_{159}	18.9	V	703
2010 GS_{211}	2010 04 15.35062	13 05 20.94	−05 30 35.6	2010 GR_{159}	19.8	V	703
2010 GT_{211}	*2010 04 15.33016	13 08 55.64	−04 12 01.7	2010 GS_{159}	19.3	V	703
2010 GT_{211}	2010 04 15.33719	13 08 55.35	−04 11 59.8	2010 GS_{159}	19.5	V	703
2010 GT_{211}	2010 04 15.34419	13 08 54.81	−04 11 57.4	2010 GS_{159}	19.1	V	703
2010 GT_{211}	2010 04 15.35119	13 08 54.60	−04 11 53.8	2010 GS_{159}	19.6	V	703
2010 HL_{140}	*2010 04 17.34644	14 08 31.52	−08 14 06.6	2010 FO_{95}	20.0	V	G96
2010 HL_{140}	2010 04 17.35392	14 08 30.98	−08 14 05.0	2010 FO_{95}	20.5	V	G96
2010 HL_{140}	2010 04 17.36145	14 08 30.58	−08 14 04.4	2010 FO_{95}	20.0	V	G96
2010 HL_{140}	2010 04 17.36898	14 08 30.12	−08 14 03.4	2010 FO_{95}	20.4	V	G96
2010 JL_{215}	*2010 05 09.20825	12 57 02.62	−02 14 02.6	2010 GB_{111}	22.5	V	G96
2010 JL_{215}	2010 05 09.21539	12 57 02.44	−02 14 02.7	2010 GB_{111}	22.3	V	G96
2010 JL_{215}	2010 05 09.22255	12 57 02.19	−02 14 02.7	2010 GB_{111}	21.7	V	G96
2010 JL_{215}	2010 05 09.22968	12 57 02.01	−02 14 01.8	2010 GB_{111}	21.4	V	G96
2010 JM_{215}	*2010 05 07.34698	15 44 53.59	+07 04 26.7	2010 GN_{161}	21.6	V	G96
2010 JM_{215}	2010 05 07.35352	15 44 53.30	+07 04 28.2	2010 GN_{161}	21.6	V	G96
2010 JM_{215}	2010 05 07.36008	15 44 53.01	+07 04 30.2	2010 GN_{161}	21.5	V	G96
2010 JM_{215}	2010 05 07.36662	15 44 52.72	+07 04 31.7	2010 GN_{161}	21.3	V	G96
2010 JN_{215}	*2010 05 05.28944	14 24 42.37	−04 24 30.6	2010 HD_{103}	20.3	V	703
2010 JN_{215}	2010 05 05.29637	14 24 42.12	−04 24 28.4	2010 HD_{103}	20.0	V	703
2010 JN_{215}	2010 05 05.30329	14 24 41.68	−04 24 28.4	2010 HD_{103}	20.1	V	703
2010 JN_{215}	2010 05 05.31022	14 24 41.43	−04 24 25.0	2010 HD_{103}	19.6	V	703
2010 JO_{215}	*2010 05 05.31298	14 08 36.02	−17 12 40.6	2010 HX_{104}	20.3	V	G96
2010 JO_{215}	2010 05 05.31902	14 08 35.70	−17 12 36.9	2010 HX_{104}	19.6	V	G96
2010 JO_{215}	2010 05 05.32509	14 08 35.30	−17 12 35.4	2010 HX_{104}	20.6	V	G96
2010 JO_{215}	2010 05 05.33120	14 08 34.94	−17 12 33.1	2010 HX_{104}	20.5	V	G96
2010 JP_{215}	*2010 05 12.34577	16 03 56.95	−05 31 24.2	2010 HT_{108}	20.7	V	G96
2010 JP_{215}	2010 05 12.35226	16 03 56.62	−05 31 21.5	2010 HT_{108}	20.7	V	G96
2010 JP_{215}	2010 05 12.35873	16 03 56.37	−05 31 19.3	2010 HT_{108}	20.0	V	G96
2010 JP_{215}	2010 05 12.36529	16 03 56.01	−05 31 17.4	2010 HT_{108}	20.5	V	G96
2010 JQ_{215}	*2010 05 12.28389	15 06 00.25	−03 06 49.8	2010 JU_{160}	21.8	V	G96
2010 JQ_{215}	2010 05 12.29044	15 05 59.96	−03 06 48.6	2010 JU_{160}	20.8	V	G96
2010 JQ_{215}	2010 05 12.29707	15 05 59.64	−03 06 46.6	2010 JU_{160}	21.1	V	G96
2010 JQ_{215}	2010 05 12.30370	15 05 59.35	−03 06 45.2	2010 JU_{160}	20.5	V	G96
2010 JR_{215}	*2010 05 13.24360	15 25 11.39	−14 34 14.1	2010 JP_{174}	20.7	V	691
2010 JR_{215}	2010 05 13.26132	15 25 10.33	−14 34 09.0	2010 JP_{174}	21.1	V	691
2010 JR_{215}	2010 05 13.27901	15 25 09.28	−14 34 03.6	2010 JP_{174}	20.9	V	691
2010 KA_{160}	*2010 05 16.32891	15 51 03.02	−18 32 58.5	2010 JY_{114}	19.2	V	G96
2010 KA_{160}	2010 05 16.33482	15 51 02.66	−18 32 56.7	2010 JY_{114}	19.4	V	G96
2010 KA_{160}	2010 05 16.34086	15 51 02.34	−18 32 55.0	2010 JY_{114}	19.4	V	G96
2010 KA_{160}	2010 05 16.34687	15 51 01.98	−18 32 53.0	2010 JY_{114}	19.5	V	G96
2010 KA_{160}	2010 05 17.99703	15 49 30.78	−18 24 46.4	2010 JY_{114}	18.9	V	J75
2010 KA_{160}	2010 05 18.01134	15 49 29.86	−18 24 42.8	2010 JY_{114}	19.5	V	J75
2010 KA_{160}	2010 05 18.02565	15 49 29.05	−18 24 38.1	2010 JY_{114}	19.0	V	J75
2010 KB_{160}	*2010 05 20.25956	14 27 34.48	−16 06 33.4	2010 JK_{147}	20.3	V	G96
2010 KB_{160}	2010 05 20.26552	14 27 34.20	−16 06 31.5	2010 JK_{147}	20.1	V	G96
2010 KB_{160}	2010 05 20.27155	14 27 33.94	−16 06 29.6	2010 JK_{147}	20.3	V	G96
2010 KB_{160}	2010 05 20.27757	14 27 33.66	−16 06 28.1	2010 JK_{147}	20.5	V	G96
2010 KC_{160}	*2010 05 19.28741	14 55 31.04	−09 58 45.3	2010 JG_{160}	21.3	V	G96
2010 KC_{160}	2010 05 19.29449	14 55 30.64	−09 58 43.6	2010 JG_{160}	21.1	V	G96
2010 KC_{160}	2010 05 19.30171	14 55 30.21	−09 58 42.9	2010 JG_{160}	21.1	V	G96
2010 KC_{160}	2010 05 19.30878	14 55 29.85	−09 58 42.2	2010 JG_{160}	21.3	V	G96
2010 KD_{160}	*2010 05 17.32715	16 02 00.49	−16 37 57.9	2010 JC_{162}	20.3	V	G96
2010 KD_{160}	2010 05 17.33458	16 02 00.13	−16 37 56.0	2010 JC_{162}	20.1	V	G96
2010 KD_{160}	2010 05 17.34198	16 01 59.77	−16 37 54.2	2010 JC_{162}	20.0	V	G96
2010 KD_{160}	2010 05 17.34934	16 01 59.44	−16 37 51.9	2010 JC_{162}	20.2	V	G96
2010 KE_{160}	*2010 05 18.38049	14 08 30.68	−03 45 36.4	2010 JS_{168}			291
2010 KE_{160}	2010 05 18.38419	14 08 30.51	−03 45 37.0	2010 JS_{168}			291
2010 KE_{160}	2010 05 18.38799	14 08 30.34	−03 45 37.8	2010 JS_{168}			291
2010 KF_{160}	*2010 05 19.26258	14 02 13.41	−10 34 33.6	2010 JB_{173}	20.8	V	G96
2010 KF_{160}	2010 05 19.27029	14 02 13.02	−10 34 31.0	2010 JB_{173}	20.2	V	G96
2010 KF_{160}	2010 05 19.27561	14 02 12.84	−10 34 29.6	2010 JB_{173}	20.3	V	G96
2010 KF_{160}	2010 05 19.28093	14 02 12.62	−10 34 27.4	2010 JB_{173}	20.7	V	G96
2010 KG_{160}	*2010 05 20.23722	14 51 46.36	−14 48 31.0	2010 JM_{173}	20.7	V	G96
2010 KG_{160}	2010 05 20.24316	14 51 46.11	−14 48 30.0	2010 JM_{173}	20.5	V	G96
2010 KG_{160}	2010 05 20.24912	14 51 45.75	−14 48 29.3	2010 JM_{173}	20.5	V	G96
2010 KG_{160}	2010 05 20.25513	14 51 45.39	−14 48 28.2	2010 JM_{173}	20.2	V	G96
2010 MR_{150}	*2010 06 19.43844	22 34 39.32	−08 09 53.2	2010 LT_{111}	21.2	V	G96
2010 MR_{150}	2010 06 19.44206	22 34 39.50	−08 09 52.0	2010 LT_{111}	21.0	V	G96
2010 MR_{150}	2010 06 19.44567	22 34 39.86	−08 09 52.0	2010 LT_{111}	20.3	V	G96
2010 MR_{150}	2010 06 19.44929	22 34 39.93	−08 09 50.7	2010 LT_{111}	20.4	V	G96
2010 MS_{150}	*2010 06 18.23723	15 51 59.72	−21 16 55.2	2010 LV_{111}	20.6	V	G96
2010 MS_{150}	2010 06 18.24375	15 51 59.40	−21 16 55.8	2010 LV_{111}	20.3	V	G96
2010 MS_{150}	2010 06 18.25032	15 51 59.11	−21 16 56.4	2010 LV_{111}	20.4	V	G96
2010 MS_{150}	2010 06 18.25692	15 51 58.78	−21 16 56.5	2010 LV_{111}	21.1	V	G96
2010 MT_{150}	*2010 06 19.19283	15 46 56.58	−08 19 33.8	2010 LR_{134}	21.0	V	691
2010 MT_{150}	2010 06 19.21307	15 46 55.93	−08 19 31.7	2010 LR_{134}	21.2	V	691
2010 MT_{150}	2010 06 19.23616	15 46 55.09	−08 19 29.7	2010 LR_{134}	21.0	V	691
2010 NK_{148}	*2010 07 05.36142	20 25 52.14	−17 30 04.6	2010 MP_{112}	21.0	V	G96
2010 NK_{148}	2010 07 05.37585	20 25 51.49	−17 30 07.2	2010 MP_{112}	21.1	V	G96
2010 NK_{148}	2010 07 05.38308	20 25 51.31	−17 30 09.1	2010 MP_{112}	20.6	V	G96
2010 NL_{148}	*2010 07 05.41868	20 34 14.52	−15 45 29.5	2010 ME_{114}	21.4	V	G96

2010 NL_{148}	2010 07 05.42454	20 34 14.23	−15 45 29.8	2010 ME_{114}	20.9	V	G96
2010 NL_{148}	2010 07 05.43044	20 34 13.90	−15 45 29.9	2010 ME_{114}	20.9	V	G96
2010 NL_{148}	2010 07 05.43631	20 34 13.65	−15 45 30.6	2010 ME_{114}	20.9	V	G96
2010 PZ_{91}	*2010 08 10.27753	23 18 22.82	−03 52 10.8	2010 PS_{26}			691
2010 PZ_{91}	2010 08 10.29513	23 18 22.25	−03 52 11.4	2010 PS_{26}			691
2010 PZ_{91}	2010 08 10.31273	23 18 21.71	−03 52 13.5	2010 PS_{26}			691
2010 PA_{92}	*2010 08 14.29727	23 15 27.39	−01 54 47.9	2010 PO_{64}			691
2010 PA_{92}	2010 08 14.31489	23 15 26.77	−01 54 50.4	2010 PO_{64}			691
2010 PA_{92}	2010 08 14.33252	23 15 26.13	−01 54 53.1	2010 PO_{64}			691
2010 PB_{92}	*2010 08 14.31219	23 34 04.24	−04 01 55.6	2010 PJ_{65}			691
2010 PB_{92}	2010 08 14.32981	23 34 03.72	−04 01 59.1	2010 PJ_{65}			691
2010 PB_{92}	2010 08 14.34746	23 34 03.23	−04 02 04.2	2010 PJ_{65}			691
2010 PC_{92}	*2010 08 14.25469	21 52 41.03	−08 02 27.6	2010 PS_{77}			691
2010 PC_{92}	2010 08 14.27232	21 52 40.12	−08 02 31.1	2010 PS_{77}			691
2010 PC_{92}	2010 08 14.28996	21 52 39.21	−08 02 34.3	2010 PS_{77}			691
2010 QT_{8}	*2010 08 20.03227	22 22 36.44	−07 13 13.6	2010 PX_{77}	19.1	V	J75
2010 QT_{8}	2010 08 20.04421	22 22 35.97	−07 13 18.4	2010 PX_{77}	19.2	V	J75
2010 QT_{8}	2010 08 20.05615	22 22 35.44	−07 13 22.9	2010 PX_{77}	19.9	V	J75
2010 RY_{215}	*2010 09 04.40247	22 58 57.64	−03 11 54.4	2010 RN_{20}	21.6	V	291
2010 RY_{215}	2010 09 04.40612	22 58 57.44	−03 11 54.8	2010 RN_{20}	21.5	V	291
2010 RY_{215}	2010 09 04.41114	22 58 57.19	−03 11 55.1	2010 RN_{20}	21.4	V	291
2010 RC_{216}	*2010 09 04.35028	23 45 36.90	−00 25 58.4	2010 RV_{13}	20.8	V	G96
2010 RC_{216}	2010 09 04.35670	23 45 36.61	−00 25 59.2	2010 RV_{13}	21.1	V	G96
2010 RC_{216}	2010 09 04.36315	23 45 36.28	−00 25 59.9	2010 RV_{13}	20.7	V	G96
2010 RC_{216}	2010 09 04.36958	23 45 35.96	−00 26 00.2	2010 RV_{13}	21.3	V	G96
2010 RD_{216}	*2010 09 04.32255	22 46 31.98	−08 25 53.9	2010 RH_{16}	21.6	V	G96
2010 RD_{216}	2010 09 04.32823	22 46 31.72	−08 25 55.1	2010 RH_{16}	21.4	V	G96
2010 RD_{216}	2010 09 04.33396	22 46 31.36	−08 25 55.3	2010 RH_{16}	22.1	V	G96
2010 RD_{216}	2010 09 04.33971	22 46 30.97	−08 25 57.0	2010 RH_{16}	21.8	V	G96
2010 RE_{216}	*2010 09 04.30139	23 07 26.36	−00 38 22.9	2010 RG_{18}	21.1	V	G96
2010 RE_{216}	2010 09 04.30721	23 07 26.11	−00 38 25.1	2010 RG_{18}	21.6	V	G96
2010 RE_{216}	2010 09 04.31304	23 07 25.82	−00 38 26.9	2010 RG_{18}	21.2	V	G96
2010 RE_{216}	2010 09 04.31888	23 07 25.50	−00 38 28.6	2010 RG_{18}	21.3	V	G96
2010 RF_{216}	*2010 09 04.34683	23 42 40.14	−04 37 27.4	2010 RU_{23}	21.3	V	G96
2010 RF_{216}	2010 09 04.35324	23 42 39.74	−04 37 29.3	2010 RU_{23}	22.4	V	G96
2010 RF_{216}	2010 09 04.35962	23 42 39.45	−04 37 31.0	2010 RU_{23}	21.3	V	G96
2010 RF_{216}	2010 09 04.36609	23 42 39.13	−04 37 32.8	2010 RU_{23}	21.9	V	G96
2010 RG_{216}	*2010 09 04.34683	23 43 14.80	−04 40 42.0	2010 RV_{23}	22.3	V	G96
2010 RG_{216}	2010 09 04.35324	23 43 14.52	−04 40 44.4	2010 RV_{23}	22.9	V	G96
2010 RG_{216}	2010 09 04.35962	23 43 14.16	−04 40 46.2	2010 RV_{23}	22.5	V	G96
2010 RG_{216}	2010 09 04.36609	23 43 13.83	−04 40 48.7	2010 RV_{23}	21.8	V	G96
2010 RH_{216}	*2010 09 04.34621	23 47 19.50	−06 23 38.4	2010 RS_{24}	21.8	V	G96
2010 RH_{216}	2010 09 04.35260	23 47 19.24	−06 23 39.0	2010 RS_{24}	22.0	V	G96
2010 RH_{216}	2010 09 04.35900	23 47 18.92	−06 23 41.4	2010 RS_{24}	21.6	V	G96
2010 RH_{216}	2010 09 04.36544	23 47 18.67	−06 23 43.4	2010 RS_{24}	21.7	V	G96
2010 RJ_{216}	*2010 09 04.34621	23 50 12.19	−06 05 28.9	2010 RG_{25}	21.8	V	G96
2010 RJ_{216}	2010 09 04.35260	23 50 11.86	−06 05 30.1	2010 RG_{25}	22.8	V	G96
2010 RJ_{216}	2010 09 04.35900	23 50 11.58	−06 05 29.8	2010 RG_{25}	21.8	V	G96
2010 RJ_{216}	2010 09 04.36544	23 50 11.22	−06 05 30.6	2010 RG_{25}	21.9	V	G96
2010 RK_{216}	*2010 09 05.29152	23 45 27.22	−06 30 03.1	2010 RB_{28}	21.3	V	291
2010 RK_{216}	2010 09 05.29540	23 45 27.01	−06 30 04.2	2010 RB_{28}	21.2	V	291
2010 RK_{216}	2010 09 05.29987	23 45 26.78	−06 30 05.7	2010 RB_{28}	20.9	V	291
2010 RL_{216}	*2010 09 05.29221	23 46 41.21	−06 27 39.0	2010 RC_{28}	21.5	V	291
2010 RL_{216}	2010 09 05.29609	23 46 41.00	−06 27 39.9	2010 RC_{28}	21.5	V	291
2010 RL_{216}	2010 09 05.30056	23 46 40.84	−06 27 41.0	2010 RC_{28}	21.6	V	291
2010 RM_{216}	*2010 09 05.32649	23 06 50.54	−02 19 54.1	2010 RR_{28}	21.2	V	G96
2010 RM_{216}	2010 09 05.33346	23 06 50.22	−02 19 57.2	2010 RR_{28}	21.1	V	G96
2010 RM_{216}	2010 09 05.34050	23 06 49.86	−02 19 59.4	2010 RR_{28}	20.6	V	G96
2010 RM_{216}	2010 09 05.34748	23 06 49.46	−02 20 02.1	2010 RR_{28}	21.4	V	G96
2010 RN_{216}	*2010 09 05.36433	23 40 08.54	−01 05 26.9	2010 RS_{29}	21.2	V	G96
2010 RN_{216}	2010 09 05.37132	23 40 08.25	−01 05 30.0	2010 RS_{29}	20.4	V	G96
2010 RN_{216}	2010 09 05.37838	23 40 07.93	−01 05 32.9	2010 RS_{29}	20.4	V	G96
2010 RN_{216}	2010 09 05.38544	23 40 07.60	−01 05 36.0	2010 RS_{29}	20.4	V	G96
2010 RO_{216}	*2010 09 05.36433	23 41 18.16	−00 17 48.4	2010 RC_{30}	22.2	V	G96
2010 RO_{216}	2010 09 05.37132	23 41 17.88	−00 17 50.3	2010 RC_{30}	21.4	V	G96
2010 RO_{216}	2010 09 05.37838	23 41 17.55	−00 17 52.5	2010 RC_{30}	21.3	V	G96
2010 RO_{216}	2010 09 05.38544	23 41 17.23	−00 17 53.5	2010 RC_{30}	21.2	V	G96
2010 RP_{216}	*2010 09 05.36284	23 41 43.82	−00 48 23.2	2010 RE_{30}	22.2	V	291
2010 RP_{216}	2010 09 05.36433	23 41 43.76	−00 48 23.9	2010 RE_{30}	21.3	V	G96
2010 RP_{216}	2010 09 05.36824	23 41 43.63	−00 48 23.4	2010 RE_{30}	22.1	V	291
2010 RP_{216}	2010 09 05.37132	23 41 43.44	−00 48 24.5	2010 RE_{30}	20.4	V	G96
2010 RP_{216}	2010 09 05.37369	23 41 43.30	−00 48 25.0	2010 RE_{30}	21.6	V	291
2010 RP_{216}	2010 09 05.37838	23 41 43.11	−00 48 25.8	2010 RE_{30}	20.9	V	G96
2010 RP_{216}	2010 09 05.38544	23 41 42.79	−00 48 26.9	2010 RE_{30}	20.8	V	G96
2010 RQ_{216}	*2010 09 05.36283	23 41 43.47	−00 47 18.1	2010 RF_{30}	21.0	V	291
2010 RQ_{216}	2010 09 05.36433	23 41 43.40	−00 47 18.8	2010 RF_{30}	20.9	V	G96
2010 RQ_{216}	2010 09 05.36824	23 41 43.23	−00 47 19.0	2010 RF_{30}	21.1	V	291
2010 RQ_{216}	2010 09 05.37132	23 41 43.08	−00 47 20.2	2010 RF_{30}	20.2	V	G96
2010 RQ_{216}	2010 09 05.37368	23 41 42.96	−00 47 20.2	2010 RF_{30}	21.1	V	291
2010 RQ_{216}	2010 09 05.37838	23 41 42.75	−00 47 21.8	2010 RF_{30}	20.2	V	G96
2010 RQ_{216}	2010 09 05.38544	23 41 42.43	−00 47 22.9	2010 RF_{30}	20.3	V	G96
2010 RR_{216}	*2010 09 06.27206	22 33 53.31	−05 00 23.5	2010 RK_{32}	20.9	V	G96
2010 RR_{216}	2010 09 06.27964	22 33 52.88	−05 00 24.6	2010 RK_{32}	21.1	V	G96
2010 RR_{216}	2010 09 06.28721	22 33 52.48	−05 00 25.3	2010 RK_{32}	21.3	V	G96
2010 RR_{216}	2010 09 06.29514	22 33 52.05	−05 00 26.3	2010 RK_{32}	20.9	V	G96
2010 RS_{216}	*2010 09 06.27374	22 32 03.30	−06 31 58.1	2010 RQ_{33}	20.9	V	G96
2010 RS_{216}	2010 09 06.28137	22 32 02.97	−06 31 59.3	2010 RQ_{33}	21.0	V	G96
2010 RS_{216}	2010 09 06.28890	22 32 02.50	−06 32 00.4	2010 RQ_{33}	20.6	V	G96
2010 RS_{216}	2010 09 06.29688	22 32 02.07	−06 32 00.3	2010 RQ_{33}	20.6	V	G96
2010 RT_{216}	*2010 09 06.27316	22 31 07.57	−06 05 54.4	2010 RR_{33}	19.7	V	G96
2010 RT_{216}	2010 09 06.28077	22 31 07.03	−06 05 53.0	2010 RR_{33}	19.7	V	G96
2010 RT_{216}	2010 09 06.28834	22 31 06.49	−06 05 51.8	2010 RR_{33}	20.0	V	G96
2010 RT_{216}	2010 09 06.29630	22 31 05.95	−06 05 50.6	2010 RR_{33}	20.0	V	G96
2010 RU_{216}	*2010 09 06.27548	22 35 30.51	−09 38 57.0	2010 RB_{36}	20.9	V	G96
2010 RU_{216}	2010 09 06.28304	22 35 30.08	−09 38 59.4	2010 RB_{36}	20.5	V	G96
2010 RU_{216}	2010 09 06.29862	22 35 29.25	−09 39 06.0	2010 RB_{36}	21.1	V	G96
2010 RV_{216}	*2010 09 06.16631	22 08 53.05	+09 36 35.3	2010 RJ_{38}	21.6	V	G96
2010 RV_{216}	2010 09 06.16760	22 08 52.98	+09 36 35.2	2010 RJ_{38}	21.3	V	G96
2010 RV_{216}	2010 09 06.16891	22 08 52.94	+09 36 34.5	2010 RJ_{38}	21.2	V	G96
2010 RV_{216}	2010 09 06.17021	22 08 52.87	+09 36 33.5	2010 RJ_{38}	21.3	V	G96
2010 RV_{216}	2010 09 06.17146	22 08 52.83	+09 36 33.1	2010 RJ_{38}	21.1	V	G96
2010 RW_{216}	*2010 09 07.15507	22 32 16.43	+04 06 50.8	2010 RQ_{43}	20.5	V	H21
2010 RW_{216}	2010 09 07.17016	22 32 15.66	+04 06 46.1	2010 RQ_{43}	20.1	V	H21
2010 RW_{216}	2010 09 07.18492	22 32 14.93	+04 06 41.6	2010 RQ_{43}	20.4	V	H21
2010 RX_{216}	*2010 09 08.36866	23 23 48.17	−01 13 17.9	2010 RV_{44}	21.5	V	291
2010 RX_{216}	2010 09 08.37409	23 23 47.82	−01 13 18.8	2010 RV_{44}	20.7	V	291

2010 RX_{216}	2010 09 08.37977	23 23 47.46	−01 13 19.0	2010 RV_{44}	21.2	V	291
2010 RY_{216}	*2010 09 10.20300	22 57 49.72	−02 34 29.1	2010 RK_{54}	21.2	V	291
2010 RY_{216}	2010 09 10.21654	22 57 49.16	−02 34 34.6	2010 RK_{54}	21.1	V	291
2010 RY_{216}	2010 09 10.23004	22 57 48.57	−02 34 40.0	2010 RK_{54}	20.7	V	291
2010 RY_{216}	2010 09 10.26036	22 57 47.29	−02 34 52.6	2010 RK_{54}	21.4	V	291
2010 RY_{216}	2010 09 10.26416	22 57 47.15	−02 34 54.5	2010 RK_{54}	21.1	V	291
2010 RY_{216}	2010 09 10.26809	22 57 46.98	−02 34 55.9	2010 RK_{54}	21.0	V	291
2010 RZ_{216}	*2010 09 10.19440	23 43 30.97	+02 44 59.1	2010 RO_{58}	20.9	V	691
2010 RZ_{216}	2010 09 10.21206	23 43 30.12	+02 44 56.1	2010 RO_{58}	21.1	V	691
2010 RZ_{216}	2010 09 10.22974	23 43 29.21	+02 44 54.0	2010 RO_{58}	20.7	V	691
2010 RA_{217}	*2010 09 09.89880	23 04 29.55	−06 21 49.7	2010 RL_{63}	19.5	V	J75
2010 RA_{217}	2010 09 09.91171	23 04 28.80	−06 21 53.0	2010 RL_{63}	20.1	V	J75
2010 RA_{217}	2010 09 09.92463	23 04 28.15	−06 21 56.3	2010 RL_{63}	19.9	V	J75
2010 RB_{217}	*2010 09 09.92505	23 31 39.81	+00 48 39.1	2010 RH_{64}	19.2	V	J75
2010 RB_{217}	2010 09 09.93699	23 31 39.39	+00 48 35.0	2010 RH_{64}	19.4	V	J75
2010 RB_{217}	2010 09 09.94895	23 31 38.86	+00 48 28.9	2010 RH_{64}	19.6	V	J75
2010 RC_{217}	*2010 09 11.31425	23 40 03.64	+01 39 34.0	2010 RS_{67}	19.6	V	703
2010 RC_{217}	2010 09 11.32051	23 40 03.28	+01 39 32.4	2010 RS_{67}	19.7	V	703
2010 RC_{217}	2010 09 11.32685	23 40 02.82	+01 39 30.5	2010 RS_{67}	20.6	V	703
2010 RC_{217}	2010 09 11.33324	23 40 02.60	+01 39 28.2	2010 RS_{67}	19.7	V	703
2010 RD_{217}	*2010 09 11.26245	23 22 32.41	−06 05 13.5	2010 RY_{73}	19.7	V	G96
2010 RD_{217}	2010 09 11.26774	23 22 32.12	−06 05 14.9	2010 RY_{73}	19.9	V	G96
2010 RD_{217}	2010 09 11.27295	23 22 31.83	−06 05 16.1	2010 RY_{73}	19.9	V	G96
2010 RD_{217}	2010 09 11.27817	23 22 31.54	−06 05 17.4	2010 RY_{73}	19.8	V	G96
2010 RE_{217}	*2010 09 12.94762	23 14 31.04	−04 34 00.3	2010 RC_{83}	19.8	R	A77
2010 RE_{217}	2010 09 12.95629	23 14 30.67	−04 34 00.8	2010 RC_{83}	19.7	R	A77
2010 RE_{217}	2010 09 12.97377	23 14 29.64	−04 34 03.1	2010 RC_{83}	20.0	R	A77
2010 RE_{217}	2010 09 12.98234	23 14 29.24	−04 34 03.7	2010 RC_{83}	20.5	R	A77
2010 RE_{217}	2010 09 13.01036	23 14 27.73	−04 34 06.4	2010 RC_{83}	20.1	R	A77
2010 RF_{217}	*2010 09 15.23006	22 55 16.33	+01 44 24.9	2010 RM_{178}	21.0	R	H82
2010 RF_{217}	2010 09 15.24345	22 55 15.55	+01 44 18.4	2010 RM_{178}	20.6	R	H82
2010 RF_{217}	2010 09 15.25754	22 55 14.79	+01 44 12.5	2010 RM_{178}	21.3	R	H82
2010 ST_{60}	*2010 09 17.24274	22 51 08.46	−06 37 33.4	2010 RY_{168}	20.7	V	G96
2010 ST_{60}	2010 09 17.24855	22 51 08.20	−06 37 36.0	2010 RY_{168}	21.8	V	G96
2010 ST_{60}	2010 09 17.25443	22 51 07.92	−06 37 38.2	2010 RY_{168}	20.8	V	G96
2010 ST_{60}	2010 09 17.26031	22 51 07.70	−06 37 40.4	2010 RY_{168}	20.8	V	G96
2010 SW_{60}	*2010 09 16.27569	23 14 54.78	−05 09 34.6	2010 RC_{124}	21.8	V	291
2010 SW_{60}	2010 09 16.27947	23 14 54.56	−05 09 36.6	2010 RC_{124}	21.3	V	291
2010 SW_{60}	2010 09 16.28353	23 14 54.42	−05 09 38.9	2010 RC_{124}	21.4	V	291
2010 SX_{60}	*2010 09 17.27168	23 27 27.43	−02 15 02.6	2010 RE_{134}	21.3	V	G96
2010 SX_{60}	2010 09 17.27809	23 27 27.18	−02 15 04.1	2010 RE_{134}	21.2	V	G96
2010 SX_{60}	2010 09 17.28450	23 27 26.85	−02 15 06.9	2010 RE_{134}	21.0	V	G96
2010 SX_{60}	2010 09 17.29087	23 27 26.56	−02 15 09.7	2010 RE_{134}	21.6	V	G96
2010 SY_{60}	*2010 09 17.27750	23 26 02.14	−04 02 46.7	2010 RY_{138}	21.8	V	G96
2010 SY_{60}	2010 09 17.28391	23 26 01.78	−04 02 49.8	2010 RY_{138}	21.4	V	G96
2010 SY_{60}	2010 09 17.29028	23 26 01.53	−04 02 52.2	2010 RY_{138}	21.6	V	G96
2010 SZ_{60}	*2010 09 17.24332	22 58 26.40	−06 53 51.4	2010 RL_{163}	20.1	V	G96
2010 SZ_{60}	2010 09 17.24914	22 58 26.11	−06 53 53.2	2010 RL_{163}	20.6	V	G96
2010 SZ_{60}	2010 09 17.25501	22 58 25.82	−06 53 54.8	2010 RL_{163}	20.5	V	G96
2010 SZ_{60}	2010 09 17.26087	22 58 25.53	−06 53 56.3	2010 RL_{163}	20.3	V	G96
2010 SA_{61}	*2010 09 17.42436	00 57 21.85	+18 36 04.6	2010 RG_{167}	19.5	V	703
2010 SA_{61}	2010 09 17.43072	00 57 21.60	+18 36 02.5	2010 RG_{167}	19.1	V	703
2010 SA_{61}	2010 09 17.43709	00 57 21.20	+18 36 02.8	2010 RG_{167}	18.9	V	703
2010 SA_{61}	2010 09 17.44351	00 57 20.88	+18 36 00.4	2010 RG_{167}	18.9	V	703
2010 SB_{61}	*2010 09 30.32701	23 50 02.53	+00 38 24.5	2010 SL_{14}			291
2010 SB_{61}	2010 09 30.33078	23 50 02.34	+00 38 23.7	2010 SL_{14}			291
2010 SB_{61}	2010 09 30.33471	23 50 02.19	+00 38 22.2	2010 SL_{14}			291
2010 SC_{61}	*2010 09 30.35018	23 02 51.14	−05 37 44.5	2010 SW_{15}	21.9	V	G96
2010 SC_{61}	2010 09 30.35311	23 02 51.00	−05 37 44.4	2010 SW_{15}	21.6	V	G96
2010 SC_{61}	2010 09 30.35613	23 02 50.92	−05 37 45.0	2010 SW_{15}	21.2	V	G96
2010 SC_{61}	2010 09 30.35913	23 02 50.74	−05 37 45.0	2010 SW_{15}	22.0	V	G96
2010 SD_{61}	*2010 09 30.35018	23 03 24.22	−05 43 51.1	2010 SX_{15}	21.4	V	G96
2010 SD_{61}	2010 09 30.35311	23 03 24.08	−05 43 51.2	2010 SX_{15}	21.5	V	G96
2010 SD_{61}	2010 09 30.35613	23 03 23.97	−05 43 52.0	2010 SX_{15}	22.0	V	G96
2010 SD_{61}	2010 09 30.35913	23 03 23.86	−05 43 53.0	2010 SX_{15}	21.6	V	G96
2010 SE_{61}	*2010 09 30.31605	00 36 56.01	−02 17 35.0	2010 SH_{16}	20.0	V	G96
2010 SE_{61}	2010 09 30.32176	00 36 55.76	−02 17 38.3	2010 SH_{16}	20.1	V	G96
2010 SE_{61}	2010 09 30.32749	00 36 55.47	−02 17 41.4	2010 SH_{16}	19.9	V	G96
2010 SE_{61}	2010 09 30.33323	00 36 55.18	−02 17 45.2	2010 SH_{16}	20.1	V	G96
2010 SF_{61}	*2010 09 30.42964	02 02 27.49	+06 30 09.9	2010 TJ_{127}	19.1	V	G96
2010 SF_{61}	2010 09 30.43821	02 02 27.13	+06 30 09.5	2010 TJ_{127}	19.4	V	G96
2010 SG_{61}	*2010 09 30.38724	01 06 33.30	+00 16 41.1	2010 TK_{152}	20.1	V	G96
2010 SG_{61}	2010 09 30.39188	01 06 33.01	+00 16 39.1	2010 TK_{152}	20.3	V	G96
2010 SG_{61}	2010 09 30.39655	01 06 32.72	+00 16 37.0	2010 TK_{152}	20.5	V	G96
2010 SG_{61}	2010 09 30.40118	01 06 32.47	+00 16 35.2	2010 TK_{152}	20.7	V	G96
2010 TS_{225}	*2010 10 01.20647	23 05 59.02	−05 38 44.0	2010 SP_{23}	21.4	V	G96
2010 TS_{225}	2010 10 01.21146	23 05 58.84	−05 38 44.2	2010 SP_{23}	21.2	V	G96
2010 TS_{225}	2010 10 01.21649	23 05 58.66	−05 38 45.2	2010 SP_{23}	21.2	V	G96
2010 TS_{225}	2010 10 01.22154	23 05 58.45	−05 38 45.9	2010 SP_{23}	20.6	V	G96
2010 TT_{225}	*2010 10 01.20647	23 06 00.07	−04 55 25.2	2010 SR_{23}	20.6	V	G96
2010 TT_{225}	2010 10 01.21146	23 05 59.89	−04 55 25.9	2010 SR_{23}	20.4	V	G96
2010 TT_{225}	2010 10 01.21649	23 05 59.71	−04 55 27.3	2010 SR_{23}	20.4	V	G96
2010 TT_{225}	2010 10 01.22154	23 05 59.49	−04 55 28.5	2010 SR_{23}	20.4	V	G96
2010 TU_{225}	*2010 10 03.38341	00 55 45.33	−02 28 44.5	2010 SL_{34}	20.1	V	703
2010 TU_{225}	2010 10 03.38929	00 55 45.08	−02 28 47.5	2010 SL_{34}	19.7	V	703
2010 TU_{225}	2010 10 03.39525	00 55 44.68	−02 28 51.1	2010 SL_{34}	19.6	V	703
2010 TU_{225}	2010 10 03.40115	00 55 44.43	−02 28 53.7	2010 SL_{34}	20.2	V	703
2010 TV_{225}	*2010 10 01.26047	01 01 25.42	−01 21 44.4	2010 SP_{34}	22.1	V	291
2010 TV_{225}	2010 10 01.26415	01 01 25.22	−01 21 45.2	2010 SP_{34}	22.4	V	291
2010 TV_{225}	2010 10 01.26988	01 01 24.85	−01 21 47.1	2010 SP_{34}	21.3	V	291
2010 TW_{225}	*2010 10 07.24933	00 21 50.65	−06 03 34.0	2010 SC_{38}	19.2	V	703
2010 TW_{225}	2010 10 07.25559	00 21 50.36	−06 03 34.7	2010 SC_{38}	19.1	V	703
2010 TW_{225}	2010 10 07.26197	00 21 50.00	−06 03 37.3	2010 SC_{38}	19.5	V	703
2010 TW_{225}	2010 10 07.26825	00 21 49.75	−06 03 37.6	2010 SC_{38}	19.4	V	703
2010 TX_{225}	*2010 10 07.25160	00 28 12.61	−06 17 31.7	2010 SJ_{38}	20.4	V	703
2010 TX_{225}	2010 10 07.25794	00 28 12.39	−06 17 30.9	2010 SJ_{38}	20.1	V	703
2010 TX_{225}	2010 10 07.26424	00 28 12.07	−06 17 32.1	2010 SJ_{38}	20.4	V	703
2010 TX_{225}	2010 10 07.27058	00 28 11.71	−06 17 35.3	2010 SJ_{38}	19.3	V	703
2010 TY_{225}	*2010 10 12.04562	02 19 47.60	+12 19 55.9	2010 SL_{39}			621
2010 TY_{225}	2010 10 12.05381	02 19 47.20	+12 19 53.2	2010 SL_{39}			621
2010 TY_{225}	2010 10 12.07293	02 19 46.52	+12 19 45.4	2010 SL_{39}	21.5		621
2010 TY_{225}	2010 10 14.07068	02 18 28.68	+12 07 57.2	2010 SL_{39}			621
2010 TY_{225}	2010 10 14.07887	02 18 28.41	+12 07 53.1	2010 SL_{39}			621
2010 TY_{225}	2010 10 14.08707	02 18 28.05	+12 07 50.2	2010 SL_{39}			621
2010 TY_{225}	2010 10 14.09799	02 18 27.60	+12 07 47.4	2010 SL_{39}	21.5		621
2010 TZ_{225}	*2010 10 07.21719	00 36 26.46	+05 07 45.4	2010 TD_{11}	20.2	V	691

2010 TZ_{225}	2010 10 07.23485	00 36 25.48	+05 07 39.4	2010 TD_{11}	20.1	V	691
2010 TZ_{225}	2010 10 07.25248	00 36 24.49	+05 07 33.3	2010 TD_{11}	20.4	V	691
2010 TA_{226}	*2010 10 07.28164	00 48 49.23	+11 59 54.0	2010 TU_{12}	21.2	V	691
2010 TA_{226}	2010 10 07.29936	00 48 48.29	+11 59 47.4	2010 TU_{12}	21.6	V	691
2010 TA_{226}	2010 10 07.31710	00 48 47.42	+11 59 41.1	2010 TU_{12}	21.1	V	691
2010 TB_{226}	*2010 10 08.31378	01 15 01.22	+07 57 27.8	2010 TO_{21}	20.3	V	691
2010 TB_{226}	2010 10 08.32888	01 15 00.34	+07 57 24.5	2010 TO_{21}	20.4	V	691
2010 TB_{226}	2010 10 08.34398	01 14 59.52	+07 57 21.9	2010 TO_{21}	20.2	V	691
2010 TC_{226}	*2010 10 08.21825	00 33 24.54	+07 44 39.3	2010 TW_{29}	21.1	V	691
2010 TC_{226}	2010 10 08.23591	00 33 23.54	+07 44 35.5	2010 TW_{29}	20.9	V	691
2010 TC_{226}	2010 10 08.25355	00 33 22.58	+07 44 31.9	2010 TW_{29}	20.7	V	691
2010 TC_{226}	2010 10 08.27090	00 33 21.67	+07 44 28.1	2010 TW_{29}	21.0	V	691
2010 TC_{226}	2010 10 08.28352	00 33 20.95	+07 44 25.6	2010 TW_{29}	20.7	V	691
2010 TC_{226}	2010 10 08.29613	00 33 20.27	+07 44 22.9	2010 TW_{29}	20.7	V	691
2010 TD_{226}	*2010 10 08.27830	00 59 32.02	+07 12 39.1	2010 TW_{31}	21.2	V	691
2010 TD_{226}	2010 10 08.29092	00 59 31.31	+07 12 38.3	2010 TW_{31}	21.0	V	691
2010 TD_{226}	2010 10 08.30352	00 59 30.57	+07 12 37.8	2010 TW_{31}	20.8	V	691
2010 TE_{226}	*2010 10 08.36507	01 38 56.39	+07 13 38.7	2010 TK_{33}	21.6	V	691
2010 TE_{226}	2010 10 08.38017	01 38 55.60	+07 13 33.8	2010 TK_{33}	21.1	V	691
2010 TE_{226}	2010 10 08.39527	01 38 54.81	+07 13 28.1	2010 TK_{33}	21.6	V	691
2010 TF_{226}	*2010 10 08.42538	01 17 05.28	+05 53 23.0	2010 TD_{39}	20.9	V	291
2010 TF_{226}	2010 10 08.43077	01 17 04.96	+05 53 21.2	2010 TD_{39}	21.1	V	291
2010 TF_{226}	2010 10 08.43690	01 17 04.64	+05 53 19.5	2010 TD_{39}	21.5	V	291
2010 TG_{226}	*2010 10 09.32643	01 10 49.79	+09 01 58.4	2010 TK_{44}	20.4	V	691
2010 TG_{226}	2010 10 09.34414	01 10 48.80	+09 01 52.6	2010 TK_{44}	20.1	V	691
2010 TG_{226}	2010 10 09.36183	01 10 47.85	+09 01 46.7	2010 TK_{44}	20.4	V	691
2010 TH_{226}	*2010 10 09.37427	01 42 48.77	+11 15 14.0	2010 TQ_{45}	21.3	V	691
2010 TH_{226}	2010 10 09.39197	01 42 47.84	+11 15 10.3	2010 TQ_{45}	21.6	V	691
2010 TH_{226}	2010 10 09.40972	01 42 46.87	+11 15 06.6	2010 TQ_{45}	21.6	V	691
2010 TJ_{226}	*2010 10 09.32891	01 19 27.53	+09 15 48.3	2010 TU_{45}	21.5	V	691
2010 TJ_{226}	2010 10 09.34661	01 19 26.75	+09 15 44.0	2010 TU_{45}	21.1	V	691
2010 TJ_{226}	2010 10 09.36431	01 19 25.74	+09 15 40.2	2010 TU_{45}	20.9	V	691
2010 TK_{226}	*2010 10 09.32891	01 19 06.83	+09 14 36.2	2010 TQ_{46}	21.3	V	691
2010 TK_{226}	2010 10 09.34661	01 19 06.00	+09 14 28.7	2010 TQ_{46}	21.8	V	691
2010 TK_{226}	2010 10 09.36431	01 19 05.11	+09 14 21.5	2010 TQ_{46}	21.3	V	691
2010 TL_{226}	*2010 10 09.37697	01 22 51.13	+08 46 24.0	2010 TU_{46}	21.0	V	691
2010 TL_{226}	2010 10 09.39469	01 22 50.15	+08 46 24.3	2010 TU_{46}	21.2	V	691
2010 TL_{226}	2010 10 09.41244	01 22 49.14	+08 46 23.9	2010 TU_{46}	21.2	V	691
2010 TM_{226}	*2010 10 09.18632	01 05 04.83	+06 10 41.6	2010 TW_{47}	20.7	V	291
2010 TM_{226}	2010 10 09.19076	01 05 04.37	+06 10 43.0	2010 TW_{47}	20.7	V	291
2010 TM_{226}	2010 10 09.19462	01 05 03.96	+06 10 44.1	2010 TW_{47}	21.0	V	291
2010 TN_{226}	*2010 10 09.35611	01 27 56.26	+08 45 09.7	2010 TX_{48}	20.8	V	G96
2010 TN_{226}	2010 10 09.36988	01 27 55.47	+08 45 07.2	2010 TX_{48}	21.8	V	G96
2010 TN_{226}	2010 10 09.37683	01 27 55.11	+08 45 06.1	2010 TX_{48}	21.1	V	G96
2010 TO_{226}	*2010 10 09.35556	01 25 52.71	+08 44 38.1	2010 TH_{50}	21.6	V	G96
2010 TO_{226}	2010 10 09.36240	01 25 52.28	+08 44 35.8	2010 TH_{50}	21.0	V	G96
2010 TO_{226}	2010 10 09.36933	01 25 51.88	+08 44 34.4	2010 TH_{50}	21.5	V	G96
2010 TO_{226}	2010 10 09.37625	01 25 51.45	+08 44 32.6	2010 TH_{50}	21.3	V	G96
2010 TP_{226}	*2010 10 09.20548	23 38 18.24	−00 41 49.8	2010 TR_{51}	21.2	V	G96
2010 TP_{226}	2010 10 09.21233	23 38 17.88	−00 41 50.2	2010 TR_{51}	20.6	V	G96
2010 TP_{226}	2010 10 09.21926	23 38 17.52	−00 41 50.4	2010 TR_{51}	20.8	V	G96
2010 TP_{226}	2010 10 09.22616	23 38 17.12	−00 41 50.8	2010 TR_{51}	20.8	V	G96
2010 TQ_{226}	*2010 10 09.39036	01 50 38.43	+07 52 04.0	2010 TT_{53}	20.0	V	G96
2010 TQ_{226}	2010 10 09.39728	01 50 37.96	+07 52 02.4	2010 TT_{53}	20.2	V	G96
2010 TQ_{226}	2010 10 09.40412	01 50 37.57	+07 52 00.3	2010 TT_{53}	20.6	V	G96
2010 TR_{226}	*2010 10 08.232831	00 44 13.12	+01 17 39.5	2010 TT_{55}	21.3	R	H21
2010 TR_{226}	2010 10 08.257739	00 44 11.92	+01 17 26.9	2010 TT_{55}	21.3	R	H21
2010 TS_{226}	*2010 10 10.37807	01 25 17.29	+14 16 06.8	2010 TD_{58}	20.9	V	691
2010 TS_{226}	2010 10 10.39577	01 25 16.22	+14 16 04.5	2010 TD_{58}	20.8	V	691
2010 TS_{226}	2010 10 10.41347	01 25 15.22	+14 16 00.9	2010 TD_{58}	21.2	V	691
2010 TT_{226}	*2010 10 13.27959	00 54 28.18	+03 02 30.8	2010 TY_{106}	20.5	V	691
2010 TT_{226}	2010 10 13.29728	00 54 27.22	+03 02 24.1	2010 TY_{106}	21.1	V	691
2010 TT_{226}	2010 10 13.31497	00 54 26.21	+03 02 18.8	2010 TY_{106}	21.4	V	691
2010 TU_{226}	*2010 10 12.32909	01 01 10.33	+05 35 31.0	2010 TW_{107}	21.2	V	691
2010 TU_{226}	2010 10 12.34679	01 01 09.47	+05 35 23.5	2010 TW_{107}	21.0	V	691
2010 TU_{226}	2010 10 12.36446	01 01 08.58	+05 35 15.9	2010 TW_{107}	20.9	V	691
2010 TV_{226}	*2010 10 11.96095	01 43 34.17	+13 02 10.7	2010 TB_{119}			621
2010 TV_{226}	2010 10 11.96915	01 43 33.64	+13 02 07.5	2010 TB_{119}			621
2010 TV_{226}	2010 10 11.97734	01 43 32.99	+13 02 04.5	2010 TB_{119}			621
2010 TV_{226}	2010 10 11.98827	01 43 32.28	+13 02 00.3	2010 TB_{119}	20.7		621
2010 TW_{226}	*2010 10 02.16873	22 52 36.69	−10 41 13.6	2010 TT_{182}	22.1	V	291
2010 TW_{226}	2010 10 02.17269	22 52 36.52	−10 41 14.8	2010 TT_{182}	21.9	V	291
2010 TW_{226}	2010 10 02.17658	22 52 36.39	−10 41 15.8	2010 TT_{182}	21.5	V	291
2010 TX_{226}	*2010 10 11.40765	02 36 36.14	+21 39 01.6	2010 UE_{46}	20.9	V	G96
2010 TX_{226}	2010 10 11.41463	02 36 35.89	+21 39 00.5	2010 UE_{46}	21.1	V	G96
2010 TX_{226}	2010 10 11.42163	02 36 35.60	+21 38 59.2	2010 UE_{46}	21.0	V	G96
2010 TX_{226}	2010 10 11.42861	02 36 35.38	+21 38 57.8	2010 UE_{46}	20.8	V	G96
2010 UO_{128}	*2010 10 29.34107	01 08 09.62	+00 49 10.8	2010 RZ_{154}	22.0	V	291
2010 UO_{128}	2010 10 29.34470	01 08 09.49	+00 49 09.6	2010 RZ_{154}	22.1	V	291
2010 UO_{128}	2010 10 29.34832	01 08 09.35	+00 49 08.0	2010 RZ_{154}	21.7	V	291
2010 UP_{128}	*2010 10 17.29588	01 57 28.36	+17 42 50.7	2010 TO_{169}	21.2	V	G96
2010 UP_{128}	2010 10 17.30219	01 57 27.97	+17 42 47.4	2010 TO_{169}	21.0	V	G96
2010 UP_{128}	2010 10 17.30853	01 57 27.61	+17 42 44.2	2010 TO_{169}	21.1	V	G96
2010 UP_{128}	2010 10 17.31491	01 57 27.18	+17 42 41.6	2010 TO_{169}	21.0	V	G96
2010 UP_{128}	2010 10 17.37232	01 57 23.57	+17 42 15.3	2010 TO_{169}	21.2	V	691
2010 UP_{128}	2010 10 17.37514	01 57 23.39	+17 42 14.0	2010 TO_{169}	21.1	V	691
2010 UP_{128}	2010 10 17.38153	01 57 23.05	+17 42 11.0	2010 TO_{169}	20.8	V	691
2010 UQ_{128}	*2010 10 17.32652	02 38 00.78	+16 21 27.0	2010 TC_{171}	21.1	V	G96
2010 UQ_{128}	2010 10 17.33343	02 38 00.45	+16 21 27.1	2010 TC_{171}	20.8	V	G96
2010 UQ_{128}	2010 10 17.34032	02 38 00.13	+16 21 26.3	2010 TC_{171}	21.1	V	G96
2010 UQ_{128}	2010 10 17.34719	02 37 59.80	+16 21 26.3	2010 TC_{171}	20.8	V	G96
2010 UR_{128}	*2010 10 31.22858	02 02 30.08	+10 53 48.6	2010 UA_{17}	20.7	V	G96
2010 UR_{128}	2010 10 31.23601	02 02 29.65	+10 53 46.3	2010 UA_{17}	20.9	V	G96
2010 UR_{128}	2010 10 31.25099	02 02 28.89	+10 53 41.6	2010 UA_{17}	21.6	V	G96
2010 US_{128}	*2010 10 30.547372	03 22 56.145	+14 43 58.88	2010 UT_{103}	21.6	R	568
2010 US_{128}	2010 10 30.548393	03 22 56.106	+14 43 58.37	2010 UT_{103}	21.6	R	568
2010 US_{128}	2010 10 30.549425	03 22 56.060	+14 43 57.87	2010 UT_{103}	21.6	R	568
2010 UT_{128}	*2010 10 16.94152	03 28 07.36	+23 57 59.2	2010 VF_{107}	20.5	R	B74
2010 UT_{128}	2010 10 16.94616	03 28 07.19	+23 58 00.6	2010 VF_{107}	20.6	R	B74
2010 UT_{128}	2010 10 16.95080	03 28 07.04	+23 58 00.2	2010 VF_{107}	20.8	R	B74
2010 UU_{128}	*2010 10 28.31335	02 37 10.92	+12 16 13.4	2010 VW_{182}	19.1	V	703
2010 UU_{128}	2010 10 28.32075	02 37 10.66	+12 16 10.7	2010 VW_{182}	19.3	V	703
2010 UU_{128}	2010 10 28.32831	02 37 10.20	+12 16 09.0	2010 VW_{182}	19.9	V	703
2010 UU_{128}	2010 10 28.33582	02 37 09.76	+12 16 07.5	2010 VW_{182}	18.9	V	703
2010 VY_{267}	*2010 11 01.33760	02 07 16.46	+13 03 16.3	2010 UD_{19}	21.2	V	G96
2010 VY_{267}	2010 11 01.34501	02 07 15.96	+13 03 14.0	2010 UD_{19}	21.8	V	G96

2010 VY_{267}	2010 11 01.35249	02 07 15.60	+13 03 11.0	2010 UD_{19}	21.4	V	G96
2010 VZ_{267}	*2010 11 02.20948	02 07 13.15	+21 13 22.1	2010 UT_{57}	20.9	V	G96
2010 VZ_{267}	2010 11 02.21351	02 07 12.86	+21 13 20.2	2010 UT_{57}	20.7	V	G96
2010 VZ_{267}	2010 11 02.21760	02 07 12.57	+21 13 18.7	2010 UT_{57}	21.9	V	G96
2010 VZ_{267}	2010 11 02.22163	02 07 12.36	+21 13 16.1	2010 UT_{57}	21.5	V	G96
2010 VA_{268}	*2010 11 03.21428	02 13 36.66	+06 50 01.1	2010 UU_{61}	20.1	V	703
2010 VA_{268}	2010 11 03.21936	02 13 36.37	+06 50 00.6	2010 UU_{61}	19.9	V	703
2010 VA_{268}	2010 11 03.22457	02 13 36.15	+06 49 59.0	2010 UU_{61}	20.1	V	703
2010 VA_{268}	2010 11 03.22975	02 13 35.79	+06 49 59.4	2010 UU_{61}	19.5	V	703
2010 VB_{268}	*2010 11 03.24813	00 29 50.06	+03 17 56.2	2010 UD_{71}	22.2	V	291
2010 VB_{268}	2010 11 03.26493	00 29 49.58	+03 17 51.7	2010 UD_{71}	22.2	V	291
2010 VB_{268}	2010 11 03.26871	00 29 49.45	+03 17 50.6	2010 UD_{71}	22.4	V	291
2010 VC_{268}	*2010 11 03.18798	00 19 57.90	+03 38 22.9	2010 UH_{71}	20.8	V	G96
2010 VC_{268}	2010 11 03.19431	00 19 57.72	+03 38 21.8	2010 UH_{71}	21.1	V	G96
2010 VC_{268}	2010 11 03.20072	00 19 57.54	+03 38 20.9	2010 UH_{71}	20.8	V	G96
2010 VC_{268}	2010 11 03.20708	00 19 57.36	+03 38 19.6	2010 UH_{71}	20.9	V	G96
2010 VD_{268}	*2010 11 05.20885	01 26 10.50	+08 20 40.1	2010 UE_{84}	20.4	V	G96
2010 VD_{268}	2010 11 05.21582	01 26 10.24	+08 20 38.6	2010 UE_{84}	20.7	V	G96
2010 VD_{268}	2010 11 05.22275	01 26 09.88	+08 20 37.6	2010 UE_{84}	21.6	V	G96
2010 VD_{268}	2010 11 05.22979	01 26 09.63	+08 20 35.8	2010 UE_{84}	21.0	V	G96
2010 VE_{268}	*2010 11 06.27010	02 03 40.64	+07 14 28.6	2010 UO_{85}	21.3	V	G96
2010 VE_{268}	2010 11 06.27646	02 03 40.32	+07 14 26.3	2010 UO_{85}	22.0	V	G96
2010 VE_{268}	2010 11 06.28279	02 03 39.96	+07 14 24.6	2010 UO_{85}	21.3	V	G96
2010 VE_{268}	2010 11 06.28919	02 03 39.63	+07 14 21.7	2010 UO_{85}	21.7	V	G96
2010 VF_{268}	*2010 11 06.27010	02 03 51.19	+07 13 50.6	2010 UP_{85}	21.5	V	G96
2010 VF_{268}	2010 11 06.27646	02 03 50.86	+07 13 48.8	2010 UP_{85}	21.7	V	G96
2010 VF_{268}	2010 11 06.28279	02 03 50.54	+07 13 46.5	2010 UP_{85}	22.1	V	G96
2010 VF_{268}	2010 11 06.28919	02 03 50.18	+07 13 45.2	2010 UP_{85}	20.4	V	G96
2010 VG_{268}	*2010 11 06.26952	02 09 18.10	+07 28 18.1	2010 UP_{86}	21.6	V	G96
2010 VG_{268}	2010 11 06.27587	02 09 17.74	+07 28 15.9	2010 UP_{86}	21.8	V	G96
2010 VG_{268}	2010 11 06.28221	02 09 17.46	+07 28 13.2	2010 UP_{86}	22.6	V	G96
2010 VG_{268}	2010 11 06.28860	02 09 17.13	+07 28 11.0	2010 UP_{86}	21.7	V	G96
2010 VH_{268}	*2010 11 06.26952	02 10 32.34	+06 57 04.7	2010 UE_{87}	20.7	V	G96
2010 VH_{268}	2010 11 06.27587	02 10 32.01	+06 57 04.2	2010 UE_{87}	20.7	V	G96
2010 VH_{268}	2010 11 06.28221	02 10 31.65	+06 57 04.1	2010 UE_{87}	21.4	V	G96
2010 VH_{268}	2010 11 06.28860	02 10 31.33	+06 57 03.8	2010 UE_{87}	20.5	V	G96
2010 VJ_{268}	*2010 11 06.26952	02 07 32.44	+06 49 25.9	2010 UV_{87}	21.4	V	G96
2010 VJ_{268}	2010 11 06.27587	02 07 32.12	+06 49 24.7	2010 UV_{87}	21.6	V	G96
2010 VJ_{268}	2010 11 06.28221	02 07 31.80	+06 49 23.0	2010 UV_{87}	22.0	V	G96
2010 VJ_{268}	2010 11 06.28860	02 07 31.40	+06 49 22.4	2010 UV_{87}	21.3	V	G96
2010 VK_{268}	*2010 11 06.26002	00 43 48.97	+05 37 06.6	2010 US_{89}			291
2010 VK_{268}	2010 11 06.26696	00 43 48.86	+05 37 05.0	2010 US_{89}			291
2010 VK_{268}	2010 11 06.27397	00 43 48.67	+05 37 03.4	2010 US_{89}			291
2010 VL_{268}	*2010 11 06.27126	01 54 06.26	+07 22 09.7	2010 UT_{90}	20.0	V	G96
2010 VL_{268}	2010 11 06.27759	01 54 05.97	+07 22 08.5	2010 UT_{90}	19.7	V	G96
2010 VL_{268}	2010 11 06.28395	01 54 05.65	+07 22 06.7	2010 UT_{90}	20.2	V	G96
2010 VL_{268}	2010 11 06.29034	01 54 05.32	+07 22 04.8	2010 UT_{90}	19.9	V	G96
2010 VM_{268}	*2010 11 06.27126	01 55 43.93	+07 29 36.7	2010 UZ_{90}	21.0	V	G96
2010 VM_{268}	2010 11 06.27759	01 55 43.60	+07 29 36.9	2010 UZ_{90}	20.5	V	G96
2010 VM_{268}	2010 11 06.28395	01 55 43.24	+07 29 35.9	2010 UZ_{90}	20.4	V	G96
2010 VM_{268}	2010 11 06.29034	01 55 42.88	+07 29 36.1	2010 UZ_{90}	21.0	V	G96
2010 VN_{268}	*2010 11 06.27126	01 55 21.18	+07 28 44.5	2010 UA_{91}	20.7	V	G96
2010 VN_{268}	2010 11 06.27759	01 55 20.85	+07 28 43.6	2010 UA_{91}	20.6	V	G96
2010 VN_{268}	2010 11 06.28395	01 55 20.53	+07 28 42.8	2010 UA_{91}	20.2	V	G96
2010 VN_{268}	2010 11 06.29034	01 55 20.17	+07 28 42.9	2010 UA_{91}	20.3	V	G96
2010 VO_{268}	*2010 11 14.22748	03 08 27.60	+14 21 32.5	2010 UR_{103}	21.4	V	G96
2010 VO_{268}	2010 11 14.23448	03 08 27.13	+14 21 30.8	2010 UR_{103}	21.5	V	G96
2010 VO_{268}	2010 11 14.24153	03 08 26.66	+14 21 30.3	2010 UR_{103}	21.2	V	G96
2010 VO_{268}	2010 11 14.24858	03 08 26.26	+14 21 28.8	2010 UR_{103}	21.5	V	G96
2010 VP_{268}	*2010 11 03.31277	03 11 54.67	+13 02 21.1	2010 UJ_{105}	20.6	V	G96
2010 VP_{268}	2010 11 03.32024	03 11 54.24	+13 02 20.3	2010 UJ_{105}	21.0	V	G96
2010 VP_{268}	2010 11 03.32765	03 11 53.84	+13 02 19.8	2010 UJ_{105}	21.0	V	G96
2010 VP_{268}	2010 11 03.33507	03 11 53.37	+13 02 18.6	2010 UJ_{105}	20.8	V	G96
2010 VQ_{268}	*2010 11 02.37163	03 10 51.13	+14 12 36.1	2010 UO_{105}	22.0	V	G96
2010 VQ_{268}	2010 11 02.37860	03 10 50.77	+14 12 34.3	2010 UO_{105}	22.1	V	G96
2010 VQ_{268}	2010 11 02.38547	03 10 50.41	+14 12 31.5	2010 UO_{105}	21.9	V	G96
2010 VQ_{268}	2010 11 02.39244	03 10 50.01	+14 12 30.7	2010 UO_{105}	21.7	V	G96
2010 VR_{268}	*2010 11 04.213832	02 16 53.15	+03 41 44.0	2010 VB_{21}	21.9	V	H21
2010 VR_{268}	2010 11 04.230291	02 16 52.16	+03 41 42.7	2010 VB_{21}	22.1	V	H21
2010 VR_{268}	2010 11 04.247391	02 16 51.22	+03 41 41.3	2010 VB_{21}	21.8	V	H21
2010 VS_{268}	*2010 11 07.41001	03 17 07.80	+15 00 20.9	2010 VS_{52}	20.7	V	G96
2010 VS_{268}	2010 11 07.41501	03 17 07.51	+15 00 19.9	2010 VS_{52}	20.7	V	G96
2010 VS_{268}	2010 11 07.42002	03 17 07.22	+15 00 18.4	2010 VS_{52}	20.7	V	G96
2010 VS_{268}	2010 11 07.42503	03 17 06.90	+15 00 17.3	2010 VS_{52}	20.9	V	G96
2010 VT_{268}	*2010 11 07.41001	03 17 16.22	+14 26 59.2	2010 VB_{53}	20.8	V	G96
2010 VT_{268}	2010 11 07.41501	03 17 15.90	+14 26 58.7	2010 VB_{53}	20.6	V	G96
2010 VT_{268}	2010 11 07.42002	03 17 15.57	+14 26 58.3	2010 VB_{53}	20.8	V	G96
2010 VT_{268}	2010 11 07.42503	03 17 15.25	+14 26 58.1	2010 VB_{53}	21.0	V	G96
2010 VU_{268}	*2010 11 09.25024	03 05 45.74	+12 21 41.4	2010 VF_{74}	20.1	V	703
2010 VU_{268}	2010 11 09.25537	03 05 45.45	+12 21 39.6	2010 VF_{74}	20.0	V	703
2010 VU_{268}	2010 11 09.26057	03 05 45.13	+12 21 37.0	2010 VF_{74}	19.6	V	703
2010 VU_{268}	2010 11 09.26572	03 05 44.80	+12 21 36.6	2010 VF_{74}	20.4	V	703
2010 VV_{268}	*2010 11 10.31395	03 07 05.44	+15 02 53.4	2010 VJ_{79}	20.6	V	G96
2010 VV_{268}	2010 11 10.31921	03 07 05.08	+15 02 52.4	2010 VJ_{79}	20.8	V	G96
2010 VV_{268}	2010 11 10.32439	03 07 04.80	+15 02 51.1	2010 VJ_{79}	20.8	V	G96
2010 VV_{268}	2010 11 10.32956	03 07 04.51	+15 02 49.4	2010 VJ_{79}	20.8	V	G96
2010 VW_{268}	*2010 11 10.31632	03 07 29.89	+15 31 33.3	2010 VL_{79}	21.1	V	G96
2010 VW_{268}	2010 11 10.32149	03 07 29.60	+15 31 31.8	2010 VL_{79}	21.1	V	G96
2010 VW_{268}	2010 11 10.32665	03 07 29.24	+15 31 30.7	2010 VL_{79}	20.7	V	G96
2010 VW_{268}	2010 11 10.33188	03 07 28.92	+15 31 29.2	2010 VL_{79}	20.9	V	G96
2010 VX_{268}	*2010 11 10.31632	03 05 53.30	+15 28 45.5	2010 VA_{80}	20.8	V	G96
2010 VX_{268}	2010 11 10.32149	03 05 53.08	+15 28 44.8	2010 VA_{80}	21.7	V	G96
2010 VX_{268}	2010 11 10.32665	03 05 52.83	+15 28 43.2	2010 VA_{80}	21.7	V	G96
2010 VX_{268}	2010 11 10.33188	03 05 52.51	+15 28 42.1	2010 VA_{80}	21.7	V	G96
2010 VY_{268}	*2010 11 10.31395	03 05 24.93	+14 09 08.6	2010 VS_{80}	20.9	V	G96
2010 VY_{268}	2010 11 10.31921	03 05 24.61	+14 09 07.8	2010 VS_{80}	21.3	V	G96
2010 VY_{268}	2010 11 10.32439	03 05 24.25	+14 09 07.8	2010 VS_{80}	21.1	V	G96
2010 VY_{268}	2010 11 10.32956	03 05 23.92	+14 09 07.2	2010 VS_{80}	21.3	V	G96
2010 VZ_{268}	*2010 11 10.23758	01 40 39.97	+11 53 17.0	2010 VD_{92}	20.2	V	G96
2010 VZ_{268}	2010 11 10.24387	01 40 39.68	+11 53 16.1	2010 VD_{92}	20.4	V	G96
2010 VZ_{268}	2010 11 10.25016	01 40 39.36	+11 53 15.1	2010 VD_{92}	20.8	V	G96
2010 VZ_{268}	2010 11 10.25642	01 40 39.10	+11 53 14.4	2010 VD_{92}	20.5	V	G96
2010 VA_{269}	*2010 11 10.34216	03 22 37.27	+16 34 39.6	2010 VV_{93}	21.1	V	G96
2010 VA_{269}	2010 11 10.34792	03 22 36.91	+16 34 38.3	2010 VV_{93}	20.7	V	G96
2010 VA_{269}	2010 11 10.35374	03 22 36.51	+16 34 36.5	2010 VV_{93}	21.0	V	G96
2010 VA_{269}	2010 11 10.35954	03 22 36.15	+16 34 35.2	2010 VV_{93}	20.8	V	G96

2010 VB_{269}	*2010 11 10.26823	02 52 54.94	+14 09 47.0	2010 VG_{97}	19.8	V	G96
2010 VB_{269}	2010 11 10.27398	02 52 54.55	+14 09 47.5	2010 VG_{97}	19.9	V	G96
2010 VB_{269}	2010 11 10.27978	02 52 54.19	+14 09 47.9	2010 VG_{97}	20.0	V	G96
2010 VB_{269}	2010 11 10.28549	02 52 53.83	+14 09 48.7	2010 VG_{97}	20.0	V	G96
2010 VC_{269}	*2010 11 12.27252	04 30 27.71	+18 53 37.2	2010 VV_{136}	21.1	V	691
2010 VC_{269}	2010 11 12.29021	04 30 26.79	+18 53 32.5	2010 VV_{136}	21.3	V	691
2010 VC_{269}	2010 11 12.30791	04 30 26.00	+18 53 28.0	2010 VV_{136}	20.6	V	691
2010 VD_{269}	*2010 11 13.32175	03 18 05.00	+09 34 07.4	2010 VO_{143}	21.9	V	G96
2010 VD_{269}	2010 11 13.32863	03 18 04.57	+09 34 04.5	2010 VO_{143}	21.4	V	G96
2010 VD_{269}	2010 11 13.33553	03 18 04.17	+09 34 02.3	2010 VO_{143}	21.2	V	G96
2010 VD_{269}	2010 11 13.34248	03 18 03.74	+09 34 00.6	2010 VO_{143}	21.6	V	G96
2010 VE_{269}	*2010 11 13.31942	03 14 13.88	+10 24 06.5	2010 VG_{144}	21.7	V	G96
2010 VE_{269}	2010 11 13.32639	03 14 13.52	+10 24 05.2	2010 VG_{144}	21.5	V	G96
2010 VE_{269}	2010 11 13.33321	03 14 13.09	+10 24 04.3	2010 VG_{144}	21.5	V	G96
2010 VE_{269}	2010 11 13.34019	03 14 12.69	+10 24 03.2	2010 VG_{144}	21.2	V	G96
2010 VF_{269}	*2010 11 13.31942	03 14 05.71	+10 06 01.7	2010 VP_{144}	20.4	V	G96
2010 VF_{269}	2010 11 13.32639	03 14 05.49	+10 06 00.3	2010 VP_{144}	20.4	V	G96
2010 VF_{269}	2010 11 13.33321	03 14 05.24	+10 05 59.1	2010 VP_{144}	20.6	V	G96
2010 VF_{269}	2010 11 13.34019	03 14 04.99	+10 05 57.9	2010 VP_{144}	20.5	V	G96
2010 VG_{269}	*2010 11 13.32059	03 22 18.30	+11 51 35.3	2010 VU_{145}	22.2	V	G96
2010 VG_{269}	2010 11 13.32752	03 22 17.86	+11 51 33.8	2010 VU_{145}	21.5	V	G96
2010 VG_{269}	2010 11 13.33439	03 22 17.54	+11 51 32.1	2010 VU_{145}	21.0	V	G96
2010 VG_{269}	2010 11 13.34132	03 22 17.14	+11 51 29.5	2010 VU_{145}	21.6	V	G96
2010 VH_{269}	*2010 11 13.32059	03 22 22.83	+11 33 43.0	2010 VQ_{146}	20.4	V	G96
2010 VH_{269}	2010 11 13.32752	03 22 22.44	+11 33 41.9	2010 VQ_{146}	20.0	V	G96
2010 VH_{269}	2010 11 13.33439	03 22 22.04	+11 33 42.0	2010 VQ_{146}	20.3	V	G96
2010 VH_{269}	2010 11 13.34132	03 22 21.61	+11 33 40.8	2010 VQ_{146}	20.1	V	G96
2010 VJ_{269}	*2010 11 13.38858	04 00 42.62	+15 07 09.5	2010 VV_{146}	20.5	V	G96
2010 VJ_{269}	2010 11 13.39665	04 00 42.15	+15 07 09.0	2010 VV_{146}	20.2	V	G96
2010 VJ_{269}	2010 11 13.40474	04 00 41.61	+15 07 08.8	2010 VV_{146}	20.0	V	G96
2010 VK_{269}	*2010 11 13.37941	04 00 59.58	+15 04 45.4	2010 VW_{146}	20.8	V	G96
2010 VK_{269}	2010 11 13.38741	04 00 59.11	+15 04 44.4	2010 VW_{146}	21.5	V	G96
2010 VK_{269}	2010 11 13.39551	04 00 58.64	+15 04 43.3	2010 VW_{146}	21.3	V	G96
2010 VK_{269}	2010 11 13.40358	04 00 58.21	+15 04 42.5	2010 VW_{146}	21.8	V	G96
2010 VL_{269}	*2010 11 14.22979	03 20 38.14	+16 14 16.7	2010 VH_{154}	20.7	V	G96
2010 VL_{269}	2010 11 14.23679	03 20 37.71	+16 14 15.2	2010 VH_{154}	20.9	V	G96
2010 VL_{269}	2010 11 14.24384	03 20 37.39	+16 14 14.3	2010 VH_{154}	20.8	V	G96
2010 VL_{269}	2010 11 14.25089	03 20 36.96	+16 14 13.1	2010 VH_{154}	21.0	V	G96
2010 VM_{269}	*2010 11 13.28782	03 18 14.65	+23 31 58.2	2010 VM_{157}	20.9	V	G96
2010 VM_{269}	2010 11 13.29525	03 18 14.22	+23 31 55.7	2010 VM_{157}	20.9	V	G96
2010 VM_{269}	2010 11 13.30279	03 18 13.82	+23 31 52.7	2010 VM_{157}	21.0	V	G96
2010 VM_{269}	2010 11 13.31027	03 18 13.39	+23 31 50.1	2010 VM_{157}	20.6	V	G96
2010 VN_{269}	*2010 11 14.15963	03 20 51.84	+19 09 42.3	2010 VX_{167}	20.6	V	691
2010 VN_{269}	2010 11 14.17733	03 20 50.66	+19 09 40.2	2010 VX_{167}	20.3	V	691
2010 VN_{269}	2010 11 14.19505	03 20 49.37	+19 09 38.5	2010 VX_{167}	20.8	V	691
2010 VO_{269}	*2010 11 13.41464	04 27 24.40	+21 49 15.2	2010 VM_{183}	21.3	V	G96
2010 VO_{269}	2010 11 13.41990	04 27 24.12	+21 49 14.9	2010 VM_{183}	21.5	V	G96
2010 VO_{269}	2010 11 13.42522	04 27 23.83	+21 49 13.9	2010 VM_{183}	21.6	V	G96
2010 VO_{269}	2010 11 13.43047	04 27 23.61	+21 49 14.0	2010 VM_{183}	22.2	V	G96
2010 VP_{269}	*2010 11 14.74942	02 16 45.58	+14 44 12.6	2010 VX_{194}	19.0	V	A50
2010 VP_{269}	2010 11 14.76758	02 16 44.52	+14 44 10.4	2010 VX_{194}	19.2	V	A50
2010 VP_{269}	2010 11 14.78571	02 16 43.46	+14 44 08.2	2010 VX_{194}	19.2	V	A50
2010 WZ_{79}	*2010 11 28.21516	04 16 32.55	+25 05 13.8	2010 WZ_{5}	22.0	V	G96
2010 WZ_{79}	2010 11 28.21758	04 16 32.44	+25 05 13.5	2010 WZ_{5}	20.4	V	G96
2010 WZ_{79}	2010 11 28.21999	04 16 32.26	+25 05 14.1	2010 WZ_{5}	22.3	V	G96
2010 WZ_{79}	2010 11 28.22238	04 16 32.12	+25 05 13.9	2010 WZ_{5}	21.3	V	G96
2010 XN_{117}	*2010 12 09.07904	02 48 38.73	+13 13 36.3	2010 UM_{102}	20.8	V	G96
2010 XN_{117}	2010 12 09.08551	02 48 38.55	+13 13 36.2	2010 UM_{102}	20.9	V	G96
2010 XN_{117}	2010 12 09.09197	02 48 38.34	+13 13 36.9	2010 UM_{102}	21.5	V	G96
2010 XN_{117}	2010 12 09.09833	02 48 38.12	+13 13 36.8	2010 UM_{102}	20.7	V	G96
2010 XO_{117}	*2010 12 05.22299	03 01 20.38	+21 18 54.9	2010 VE_{50}	19.9	V	G96
2010 XO_{117}	2010 12 05.23052	03 01 20.06	+21 18 51.5	2010 VE_{50}	19.8	V	G96
2010 XO_{117}	2010 12 05.23810	03 01 19.77	+21 18 48.3	2010 VE_{50}	19.8	V	G96
2010 XO_{117}	2010 12 05.24569	03 01 19.45	+21 18 45.1	2010 VE_{50}	19.9	V	G96
2010 XP_{117}	*2010 12 05.26117	03 20 53.59	+22 39 30.0	2010 VY_{156}	21.1	V	G96
2010 XP_{117}	2010 12 05.26758	03 20 53.30	+22 39 27.5	2010 VY_{156}	20.9	V	G96
2010 XP_{117}	2010 12 05.27403	03 20 52.98	+22 39 25.3	2010 VY_{156}	20.8	V	G96
2010 XP_{117}	2010 12 05.28038	03 20 52.76	+22 39 23.3	2010 VY_{156}	20.9	V	G96
2010 XQ_{117}	*2010 12 02.15209	03 09 45.32	+32 45 40.8	2010 WF_{12}	20.8	V	G96
2010 XQ_{117}	2010 12 02.15816	03 09 45.07	+32 45 39.0	2010 WF_{12}	20.6	V	G96
2010 XQ_{117}	2010 12 02.16418	03 09 44.74	+32 45 37.6	2010 WF_{12}	20.8	V	G96
2010 XQ_{117}	2010 12 02.17022	03 09 44.46	+32 45 35.6	2010 WF_{12}	20.9	V	G96
2010 XR_{117}	*2010 12 01.18675	03 37 38.82	+16 03 42.7	2010 WA_{13}	21.6	V	G96
2010 XR_{117}	2010 12 01.19352	03 37 38.49	+16 03 43.1	2010 WA_{13}	21.6	V	G96
2010 XR_{117}	2010 12 01.20032	03 37 38.13	+16 03 43.1	2010 WA_{13}	21.6	V	G96
2010 XR_{117}	2010 12 01.20713	03 37 37.77	+16 03 43.3	2010 WA_{13}	21.8	V	G96
2010 XS_{117}	*2010 12 01.21480	03 51 34.30	+16 30 47.0	2010 WZ_{13}	21.5	V	G96
2010 XS_{117}	2010 12 01.22160	03 51 33.84	+16 30 45.6	2010 WZ_{13}	22.3	V	G96
2010 XS_{117}	2010 12 01.22846	03 51 33.51	+16 30 45.3	2010 WZ_{13}	21.5	V	G96
2010 XS_{117}	2010 12 01.23534	03 51 33.12	+16 30 44.1	2010 WZ_{13}	21.2	V	G96
2010 XT_{117}	*2010 12 01.21480	03 53 25.00	+16 24 52.3	2010 WF_{14}	21.0	V	G96
2010 XT_{117}	2010 12 01.22160	03 53 24.68	+16 24 51.4	2010 WF_{14}	21.1	V	G96
2010 XT_{117}	2010 12 01.22846	03 53 24.32	+16 24 50.5	2010 WF_{14}	21.7	V	G96
2010 XT_{117}	2010 12 01.23534	03 53 23.92	+16 24 50.0	2010 WF_{14}	21.4	V	G96
2010 XU_{117}	*2010 12 02.31343	04 11 39.51	+23 32 51.5	2010 WW_{18}	21.0	V	291
2010 XU_{117}	2010 12 02.31746	04 11 39.27	+23 32 50.4	2010 WW_{18}	21.0	V	291
2010 XU_{117}	2010 12 02.32162	04 11 39.06	+23 32 49.6	2010 WW_{18}	21.3	V	291
2010 XV_{117}	*2010 12 01.33714	04 25 48.00	+24 44 45.4	2010 WB_{28}	21.2	V	G96
2010 XV_{117}	2010 12 01.34460	04 25 47.60	+24 44 43.3	2010 WB_{28}	20.5	V	G96
2010 XV_{117}	2010 12 01.35207	04 25 47.17	+24 44 41.1	2010 WB_{28}	20.5	V	G96
2010 XV_{117}	2010 12 01.35961	04 25 46.81	+24 44 39.4	2010 WB_{28}	20.3	V	G96
2010 XW_{117}	*2010 12 01.33714	04 25 56.28	+24 45 00.2	2010 WC_{28}	20.0	V	G96
2010 XW_{117}	2010 12 01.34460	04 25 55.88	+24 44 57.6	2010 WC_{28}	20.0	V	G96
2010 XW_{117}	2010 12 01.35207	04 25 55.48	+24 44 55.8	2010 WC_{28}	20.5	V	G96
2010 XW_{117}	2010 12 01.35961	04 25 55.09	+24 44 54.2	2010 WC_{28}	20.0	V	G96
2010 XW_{117}	2010 12 08.31263	04 19 53.25	+24 14 20.8	2010 WC_{28}	20.1	V	G96
2010 XW_{117}	2010 12 08.31935	04 19 52.96	+24 14 19.2	2010 WC_{28}	20.1	V	G96
2010 XW_{117}	2010 12 08.32611	04 19 52.57	+24 14 17.4	2010 WC_{28}	20.2	V	G96
2010 XW_{117}	2010 12 08.33289	04 19 52.21	+24 14 15.5	2010 WC_{28}	20.5	V	G96
2010 XX_{117}	*2010 12 01.33944	04 31 01.23	+24 07 13.8	2010 WG_{52}	21.0	V	G96
2010 XX_{117}	2010 12 01.34690	04 31 00.84	+24 07 13.1	2010 WG_{52}	21.1	V	G96
2010 XX_{117}	2010 12 01.35439	04 31 00.26	+24 07 13.2	2010 WG_{52}	21.1	V	G96
2010 XX_{117}	2010 12 01.36190	04 30 59.86	+24 07 11.8	2010 WG_{52}	20.6	V	G96
2010 XY_{117}	*2010 12 03.33500	04 48 32.76	+25 49 29.8	2010 WH_{67}	20.7	V	G96
2010 XY_{117}	2010 12 03.34249	04 48 32.18	+25 49 30.1	2010 WH_{67}	20.1	V	G96
2010 XY_{117}	2010 12 03.35006	04 48 31.64	+25 49 31.1	2010 WH_{67}	20.3	V	G96

2010 XY_{117}	2010 12 03.35749	04 48 31.10	+25 49 31.1	2010 WH_{67}	20.6	V	G96
2010 XZ_{117}	*2010 12 08.21252	02 18 56.16	+14 21 43.0	2010 WJ_{71}	21.2	V	G96
2010 XZ_{117}	2010 12 08.21774	02 18 56.05	+14 21 43.1	2010 WJ_{71}	21.1	V	G96
2010 XZ_{117}	2010 12 08.22300	02 18 55.90	+14 21 42.2	2010 WJ_{71}	21.4	V	G96
2010 XZ_{117}	2010 12 08.22824	02 18 55.80	+14 21 42.4	2010 WJ_{71}	20.8	V	G96
2010 XA_{118}	*2010 12 08.31493	04 24 17.42	+20 50 47.1	2010 XN_{26}	21.4	V	G96
2010 XA_{118}	2010 12 08.32168	04 24 17.06	+20 50 45.8	2010 XN_{26}	20.7	V	G96
2010 XA_{118}	2010 12 08.32843	04 24 16.59	+20 50 44.9	2010 XN_{26}	21.8	V	G96
2010 XA_{118}	2010 12 08.33521	04 24 16.30	+20 50 44.0	2010 XN_{26}	21.4	V	G96
2010 XB_{118}	*2010 12 08.31376	04 24 00.32	+23 42 52.5	2010 XM_{27}	20.7	V	G96
2010 XB_{118}	2010 12 08.32052	04 23 59.96	+23 42 51.9	2010 XM_{27}	21.0	V	G96
2010 XB_{118}	2010 12 08.32726	04 23 59.56	+23 42 51.2	2010 XM_{27}	21.1	V	G96
2010 XB_{118}	2010 12 08.33405	04 23 59.20	+23 42 49.8	2010 XM_{27}	21.2	V	G96
2010 XC_{118}	*2010 12 08.35931	04 35 31.99	+07 37 15.4	2010 XW_{32}	20.2	V	703
2010 XC_{118}	2010 12 08.36513	04 35 31.66	+07 37 17.5	2010 XW_{32}	20.0	V	703
2010 XC_{118}	2010 12 08.37094	04 35 31.16	+07 37 16.1	2010 XW_{32}	20.4	V	703
2010 XC_{118}	2010 12 08.37669	04 35 30.94	+07 37 16.7	2010 XW_{32}	19.6	V	703
2010 XD_{118}	*2010 12 11.23175	03 46 16.50	+18 55 11.9	2010 XO_{53}	21.6	V	G96
2010 XD_{118}	2010 12 11.23777	03 46 16.28	+18 55 11.6	2010 XO_{53}	21.0	V	G96
2010 XD_{118}	2010 12 11.24391	03 46 15.96	+18 55 10.9	2010 XO_{53}	20.7	V	G96
2010 XD_{118}	2010 12 11.25009	03 46 15.67	+18 55 11.6	2010 XO_{53}	21.6	V	G96
2010 XE_{118}	*2010 12 15.27155	04 06 39.02	+30 05 08.9	2010 XX_{70}	20.9	V	G96
2010 XE_{118}	2010 12 15.27749	04 06 38.73	+30 05 06.3	2010 XX_{70}	21.8	V	G96
2010 XE_{118}	2010 12 15.28332	04 06 38.41	+30 05 05.4	2010 XX_{70}	20.6	V	G96
2010 XE_{118}	2010 12 15.28966	04 06 38.05	+30 05 03.1	2010 XX_{70}	21.4	V	G96
2010 YB_{7}	*2010 12 25.25708	04 50 12.01	+25 18 45.1	2016 JJ_{46}	19.7	V	G96
2010 YB_{7}	2010 12 25.26454	04 50 11.50	+25 18 43.9	2016 JJ_{46}	20.9	V	G96
2010 YB_{7}	2010 12 25.27192	04 50 11.07	+25 18 45.4	2016 JJ_{46}	21.1	V	G96
2010 YB_{7}	2010 12 25.27939	04 50 10.64	+25 18 46.8	2016 JJ_{46}	21.1	V	G96
2011 AM_{104}	*2011 01 15.26572	07 53 35.37	+24 47 41.8	2011 AZ_{53}	21.3	V	G96
2011 AM_{104}	2011 01 15.26780	07 53 35.19	+24 47 42.1	2011 AZ_{53}	21.9	V	G96
2011 AM_{104}	2011 01 15.27199	07 53 34.94	+24 47 43.4	2011 AZ_{53}	20.9	V	G96
2011 AM_{104}	2011 01 15.27407	07 53 34.80	+24 47 43.8	2011 AZ_{53}	21.2	V	G96
2011 BD_{203}	*2011 01 29.13561	03 28 19.12	+17 40 10.2	2010 XD_{73}	21.0	V	G96
2011 BD_{203}	2011 01 29.14248	03 28 19.30	+17 40 12.5	2010 XD_{73}	21.7	V	G96
2011 BD_{203}	2011 01 29.14942	03 28 19.48	+17 40 15.0	2010 XD_{73}	21.1	V	G96
2011 BE_{203}	*2011 01 30.29051	07 46 51.539	+28 52 05.18	2011 AY_{69}	22.5	w	F51
2011 BE_{203}	2011 01 30.30506	07 46 50.711	+28 52 03.92	2011 AY_{69}	22.6	w	F51
2011 BE_{203}	2011 01 30.32015	07 46 49.860	+28 52 03.32	2011 AY_{69}	22.8	w	F51
2011 BF_{203}	*2011 01 23.23925	08 04 02.78	+20 26 06.4	2011 BM_{7}	20.1	V	G96
2011 BF_{203}	2011 01 23.24611	08 04 02.35	+20 26 07.9	2011 BM_{7}	20.3	V	G96
2011 BF_{203}	2011 01 23.25302	08 04 01.88	+20 26 09.7	2011 BM_{7}	20.5	V	G96
2011 BF_{203}	2011 01 23.25987	08 04 01.41	+20 26 09.1	2011 BM_{7}	19.1	V	G96
2011 BG_{203}	*2011 01 23.23925	08 04 23.16	+20 09 28.7	2011 BN_{7}	20.7	V	G96
2011 BG_{203}	2011 01 23.24611	08 04 22.80	+20 09 28.8	2011 BN_{7}	20.4	V	G96
2011 BG_{203}	2011 01 23.25302	08 04 22.40	+20 09 29.1	2011 BN_{7}	20.7	V	G96
2011 BG_{203}	2011 01 23.25987	08 04 22.00	+20 09 28.8	2011 BN_{7}	20.3	V	G96
2011 BH_{203}	*2011 01 30.53809	09 44 29.161	+13 59 53.28	2011 CK_{9}	21.9	w	F51
2011 BH_{203}	2011 01 30.55332	09 44 28.495	+14 00 00.03	2011 CK_{9}	21.7	w	F51
2011 BH_{203}	2011 01 30.57064	09 44 27.729	+14 00 07.65	2011 CK_{9}	21.7	w	F51
2011 BH_{203}	2011 02 07.37509	09 38 40.48	+14 59 23.4	2011 CK_{9}	21.3	V	G96
2011 BH_{203}	2011 02 07.38137	09 38 40.16	+14 59 25.9	2011 CK_{9}	21.1	V	G96
2011 BH_{203}	2011 02 07.38762	09 38 39.87	+14 59 28.9	2011 CK_{9}	21.0	V	G96
2011 BH_{203}	2011 02 07.39395	09 38 39.58	+14 59 32.1	2011 CK_{9}	20.5	V	G96
2011 BJ_{203}	*2011 01 30.53809	09 41 32.192	+15 24 32.19	2011 CY_{20}	22.6	w	F51
2011 BJ_{203}	2011 01 30.55332	09 41 31.390	+15 24 37.21	2011 CY_{20}	22.5	w	F51
2011 BJ_{203}	2011 01 30.58575	09 41 29.642	+15 24 48.10	2011 CY_{20}	22.5	w	F51
2011 BK_{203}	*2011 01 30.36245	09 21 54.432	+09 54 06.65	2011 CH_{44}	21.3	w	F51
2011 BK_{203}	2011 01 30.37806	09 21 53.566	+09 54 09.50	2011 CH_{44}	21.4	w	F51
2011 BK_{203}	2011 01 30.39262	09 21 52.752	+09 54 12.21	2011 CH_{44}	21.5	w	F51
2011 BK_{203}	2011 02 11.26159	09 10 45.37	+10 36 36.6	2011 CH_{44}	20.6	V	G96
2011 BK_{203}	2011 02 11.26876	09 10 44.94	+10 36 38.3	2011 CH_{44}	21.1	V	G96
2011 BK_{203}	2011 02 11.27458	09 10 44.61	+10 36 40.1	2011 CH_{44}	20.8	V	G96
2011 BK_{203}	2011 02 11.28040	09 10 44.25	+10 36 41.0	2011 CH_{44}	20.6	V	G96
2011 BL_{203}	*2011 01 30.63618	15 36 11.593	−22 44 48.08	2011 LO_{27}	21.6	w	F51
2011 BL_{203}	2011 01 30.64169	15 36 12.140	−22 44 50.18	2011 LO_{27}	21.9	w	F51
2011 BL_{203}	2011 01 30.64790	15 36 12.771	−22 44 52.77	2011 LO_{27}	21.8	w	F51
2011 BL_{203}	2011 01 30.65343	15 36 13.338	−22 44 54.43	2011 LO_{27}	22.0	w	F51
2011 CK_{141}	*2011 02 13.34150	10 13 40.26	+18 49 16.8	2011 BB_{49}	21.9	V	G96
2011 CK_{141}	2011 02 13.34795	10 13 39.82	+18 49 18.3	2011 BB_{49}	21.1	V	G96
2011 CK_{141}	2011 02 13.35436	10 13 39.50	+18 49 19.3	2011 BB_{49}	21.9	V	G96
2011 CK_{141}	2011 02 13.36073	10 13 39.14	+18 49 19.9	2011 BB_{49}	21.8	V	G96
2011 CL_{141}	*2011 02 12.42245	08 46 03.57	+26 10 22.4	2011 BX_{61}	20.8	V	G96
2011 CL_{141}	2011 02 12.42429	08 46 03.54	+26 10 23.3	2011 BX_{61}	21.6	V	G96
2011 CL_{141}	2011 02 12.42612	08 46 03.36	+26 10 23.7	2011 BX_{61}	21.4	V	G96
2011 CL_{141}	2011 02 12.42796	08 46 03.21	+26 10 23.8	2011 BX_{61}	21.4	V	G96
2011 CM_{141}	*2011 02 02.01737	10 32 44.18	+19 36 03.7	2011 BR_{66}	20.6	R	461
2011 CM_{141}	2011 02 02.04332	10 32 43.28	+19 36 13.4	2011 BR_{66}	20.4	R	461
2011 CN_{141}	*2011 02 10.22218	07 42 36.50	+23 34 39.4	2011 BO_{133}	22.1	V	G96
2011 CN_{141}	2011 02 10.23147	07 42 36.10	+23 34 39.7	2011 BO_{133}	21.6	V	G96
2011 CN_{141}	2011 02 10.24074	07 42 35.71	+23 34 40.4	2011 BO_{133}	21.9	V	G96
2011 CN_{141}	2011 02 10.25000	07 42 35.35	+23 34 40.5	2011 BO_{133}	22.4	V	G96
2011 CO_{141}	*2011 02 06.37889	10 18 47.60	+05 59 16.6	2011 CW_{6}			291
2011 CO_{141}	2011 02 06.38261	10 18 47.44	+05 59 17.8	2011 CW_{6}			291
2011 CO_{141}	2011 02 06.38634	10 18 47.26	+05 59 19.4	2011 CW_{6}			291
2011 CP_{141}	*2011 02 07.24938	09 10 55.78	+07 51 34.8	2011 CT_{7}			291
2011 CP_{141}	2011 02 07.25313	09 10 55.58	+07 51 36.3	2011 CT_{7}			291
2011 CP_{141}	2011 02 07.25685	09 10 55.32	+07 51 37.2	2011 CT_{7}			291
2011 CQ_{141}	*2011 02 08.23188	09 02 22.66	+17 03 20.3	2011 CL_{15}	20.8	V	G96
2011 CQ_{141}	2011 02 08.23829	09 02 22.23	+17 03 21.0	2011 CL_{15}	20.9	V	G96
2011 CQ_{141}	2011 02 08.24469	09 02 21.84	+17 03 21.6	2011 CL_{15}	20.7	V	G96
2011 CQ_{141}	2011 02 08.25113	09 02 21.48	+17 03 22.0	2011 CL_{15}	20.9	V	G96
2011 CR_{141}	*2011 02 09.33030	09 28 21.68	+09 34 30.3	2011 CK_{24}	21.2	V	G96
2011 CR_{141}	2011 02 09.34073	09 28 21.14	+09 34 33.6	2011 CK_{24}	21.3	V	G96
2011 CR_{141}	2011 02 09.35118	09 28 20.53	+09 34 37.0	2011 CK_{24}	21.4	V	G96
2011 CR_{141}	2011 02 09.36162	09 28 19.92	+09 34 40.0	2011 CK_{24}	21.9	V	G96
2011 CS_{141}	*2011 02 09.15353	08 02 14.33	+22 52 18.1	2011 CS_{32}	21.2	V	291
2011 CS_{141}	2011 02 09.15810	08 02 14.14	+22 52 18.7	2011 CS_{32}	21.9	V	291
2011 CS_{141}	2011 02 09.16204	08 02 13.93	+22 52 19.5	2011 CS_{32}	21.4	V	291
2011 CT_{141}	*2011 02 10.27057	09 05 39.80	+21 01 53.6	2011 CP_{38}	21.8	V	G96
2011 CT_{141}	2011 02 10.27703	09 05 39.44	+21 01 54.6	2011 CP_{38}	21.5	V	G96
2011 CT_{141}	2011 02 10.28347	09 05 39.08	+21 01 56.0	2011 CP_{38}	21.3	V	G96
2011 CT_{141}	2011 02 10.28987	09 05 38.79	+21 01 57.7	2011 CP_{38}	21.5	V	G96
2011 CU_{141}	*2011 02 10.19310	08 27 56.26	+19 29 07.6	2011 CY_{39}	21.6	V	G96
2011 CU_{141}	2011 02 10.20064	08 27 55.80	+19 29 09.9	2011 CY_{39}	22.6	V	G96
2011 CU_{141}	2011 02 10.20821	08 27 55.47	+19 29 12.5	2011 CY_{39}	22.1	V	G96

2011 CU_{141}	2011 02 10.21583	08 27 54.97	+19 29 14.0	2011 CY_{39}	21.8	V	G96
2011 CV_{141}	*2011 02 10.29589	09 30 37.87	+22 41 18.7	2011 CG_{40}	22.0	V	G96
2011 CV_{141}	2011 02 10.30293	09 30 37.47	+22 41 21.4	2011 CG_{40}	21.3	V	G96
2011 CV_{141}	2011 02 10.30995	09 30 37.08	+22 41 23.1	2011 CG_{40}	22.0	V	G96
2011 CV_{141}	2011 02 10.31690	09 30 36.64	+22 41 25.0	2011 CG_{40}	21.6	V	G96
2011 CW_{141}	*2011 02 12.24696	08 41 39.15	+15 10 27.5	2011 CZ_{48}	22.0	V	G96
2011 CW_{141}	2011 02 12.25275	08 41 38.90	+15 10 29.1	2011 CZ_{48}	22.3	V	G96
2011 CW_{141}	2011 02 12.25855	08 41 38.61	+15 10 31.0	2011 CZ_{48}	21.7	V	G96
2011 CW_{141}	2011 02 12.26433	08 41 38.36	+15 10 32.9	2011 CZ_{48}	22.0	V	G96
2011 CX_{141}	*2011 02 13.29144	09 42 42.62	+14 35 09.8	2011 CU_{51}	20.9	V	G96
2011 CX_{141}	2011 02 13.29832	09 42 42.26	+14 35 11.4	2011 CU_{51}	20.7	V	G96
2011 CX_{141}	2011 02 13.30523	09 42 41.90	+14 35 13.7	2011 CU_{51}	21.0	V	G96
2011 CX_{141}	2011 02 13.31223	09 42 41.61	+14 35 15.4	2011 CU_{51}	20.8	V	G96
2011 CY_{141}	*2011 02 13.29144	09 43 02.74	+14 33 06.7	2011 CV_{51}	19.9	V	G96
2011 CY_{141}	2011 02 13.29832	09 43 02.35	+14 33 08.6	2011 CV_{51}	20.1	V	G96
2011 CY_{141}	2011 02 13.30523	09 43 01.99	+14 33 10.4	2011 CV_{51}	20.1	V	G96
2011 CY_{141}	2011 02 13.31223	09 43 01.59	+14 33 12.3	2011 CV_{51}	20.0	V	G96
2011 CZ_{141}	*2011 02 13.29006	09 47 07.94	+16 00 02.3	2011 CK_{53}	21.0	V	G96
2011 CZ_{141}	2011 02 13.29696	09 47 07.62	+16 00 03.8	2011 CK_{53}	21.4	V	G96
2011 CZ_{141}	2011 02 13.30384	09 47 07.22	+16 00 05.5	2011 CK_{53}	22.2	V	G96
2011 CZ_{141}	2011 02 13.31082	09 47 06.90	+16 00 07.2	2011 CK_{53}	21.6	V	G96
2011 CA_{142}	*2011 02 13.29349	09 49 35.36	+13 58 27.8	2011 CZ_{54}	21.4	V	G96
2011 CA_{142}	2011 02 13.30042	09 49 35.00	+13 58 30.8	2011 CZ_{54}	22.0	V	G96
2011 CA_{142}	2011 02 13.30731	09 49 34.50	+13 58 33.3	2011 CZ_{54}	21.4	V	G96
2011 CA_{142}	2011 02 13.31428	09 49 34.10	+13 58 35.5	2011 CZ_{54}	21.7	V	G96
2011 CB_{142}	*2011 02 13.29418	09 50 47.22	+12 11 39.5	2011 CS_{57}	21.0	V	G96
2011 CB_{142}	2011 02 13.30109	09 50 46.82	+12 11 40.3	2011 CS_{57}	21.7	V	G96
2011 CB_{142}	2011 02 13.30801	09 50 46.42	+12 11 41.5	2011 CS_{57}	20.5	V	G96
2011 CB_{142}	2011 02 13.31498	09 50 46.06	+12 11 42.3	2011 CS_{57}	20.6	V	G96
2011 CC_{142}	*2011 02 13.29625	09 43 03.03	+11 34 04.0	2011 CP_{61}	21.6	V	G96
2011 CC_{142}	2011 02 13.30313	09 43 02.56	+11 34 06.0	2011 CP_{61}	21.8	V	G96
2011 CC_{142}	2011 02 13.31012	09 43 02.06	+11 34 08.5	2011 CP_{61}	21.6	V	G96
2011 CC_{142}	2011 02 13.31707	09 43 01.63	+11 34 10.4	2011 CP_{61}	22.3	V	G96
2011 CD_{142}	*2011 02 13.41347	10 19 46.88	+12 24 57.3	2011 CQ_{73}	19.5	V	G96
2011 CD_{142}	2011 02 13.41926	10 19 46.56	+12 24 59.5	2011 CQ_{73}	19.6	V	G96
2011 CD_{142}	2011 02 13.42499	10 19 46.27	+12 25 01.7	2011 CQ_{73}	19.6	V	G96
2011 CD_{142}	2011 02 13.43083	10 19 45.91	+12 25 04.0	2011 CQ_{73}	19.5	V	G96
2011 DJ_{59}	*2011 02 26.24227	08 33 12.09	+19 59 42.0	2011 BA_{144}	22.6	V	G96
2011 DJ_{59}	2011 02 26.24748	08 33 11.91	+19 59 42.9	2011 BA_{144}	21.7	V	G96
2011 DJ_{59}	2011 02 26.25274	08 33 11.73	+19 59 43.2	2011 BA_{144}	21.2	V	G96
2011 DJ_{59}	2011 02 26.25789	08 33 11.59	+19 59 43.8	2011 BA_{144}	22.6	V	G96
2011 DK_{59}	*2011 02 25.29127	10 38 37.57	+10 45 32.1	2011 DY_{3}	20.6	V	G96
2011 DK_{59}	2011 02 25.30167	10 38 36.96	+10 45 36.8	2011 DY_{3}	20.7	V	G96
2011 DK_{59}	2011 02 25.32269	10 38 35.70	+10 45 45.9	2011 DY_{3}	20.7	V	G96
2011 DL_{59}	*2011 02 26.36117	10 35 50.32	+10 20 24.9	2011 DH_{10}			291
2011 DL_{59}	2011 02 26.36597	10 35 50.05	+10 20 26.4	2011 DH_{10}			291
2011 DL_{59}	2011 02 26.37013	10 35 49.81	+10 20 27.2	2011 DH_{10}			291
2011 DM_{59}	*2011 02 25.23091	10 18 02.91	−01 01 24.4	2011 FB_{145}	21.8	V	291
2011 DM_{59}	2011 02 25.23629	10 18 02.69	−01 01 22.5	2011 FB_{145}	21.6	V	291
2011 DM_{59}	2011 02 25.24158	10 18 02.44	−01 01 20.9	2011 FB_{145}	21.6	V	291
2011 DM_{59}	2011 04 23.29574	09 56 33.198	+03 21 56.46	2011 FB_{145}	22.0	r	F51
2011 DM_{59}	2011 04 23.29722	09 56 33.233	+03 21 56.42	2011 FB_{145}	22.3	r	F51
2011 DM_{59}	2011 04 23.29870	09 56 33.280	+03 21 56.65	2011 FB_{145}	22.0	r	F51
2011 DM_{59}	2011 04 23.30168	09 56 33.365	+03 21 57.04	2011 FB_{145}	22.2	r	F51
2011 DM_{59}	2011 04 23.30317	09 56 33.405	+03 21 57.15	2011 FB_{145}	22.1	r	F51
2011 DM_{59}	2011 04 23.30465	09 56 33.440	+03 21 57.06	2011 FB_{145}	22.1	r	F51
2011 EU_{108}	*2011 03 06.27321	09 54 51.91	+06 10 08.9	2011 BJ_{110}	21.0	V	G96
2011 EU_{108}	2011 03 06.28129	09 54 51.66	+06 10 12.0	2011 BJ_{110}	20.8	V	G96
2011 EU_{108}	2011 03 06.28943	09 54 51.26	+06 10 16.2	2011 BJ_{110}	20.8	V	G96
2011 EV_{108}	*2011 03 06.23600	10 13 32.41	+08 38 40.6	2011 BY_{113}	22.2	V	G96
2011 EV_{108}	2011 03 06.24178	10 13 32.16	+08 38 42.4	2011 BY_{113}	21.6	V	G96
2011 EV_{108}	2011 03 06.24766	10 13 31.87	+08 38 43.2	2011 BY_{113}	21.7	V	G96
2011 EV_{108}	2011 03 06.25356	10 13 31.58	+08 38 45.1	2011 BY_{113}	21.2	V	G96
2011 EW_{108}	*2011 03 05.29271	09 59 27.45	+08 46 10.7	2011 CQ_{83}	21.5	V	G96
2011 EW_{108}	2011 03 05.30097	09 59 27.13	+08 46 13.2	2011 CQ_{83}	21.7	V	G96
2011 EW_{108}	2011 03 05.30918	09 59 26.77	+08 46 16.5	2011 CQ_{83}	22.0	V	G96
2011 EW_{108}	2011 03 05.31748	09 59 26.41	+08 46 20.0	2011 CQ_{83}	22.2	V	G96
2011 EX_{108}	*2011 03 06.26447	09 58 28.30	+06 08 01.1	2011 CR_{101}	20.3	V	G96
2011 EX_{108}	2011 03 06.27262	09 58 27.94	+06 08 03.1	2011 CR_{101}	20.2	V	G96
2011 EX_{108}	2011 03 06.28073	09 58 27.55	+06 08 04.9	2011 CR_{101}	20.4	V	G96
2011 EX_{108}	2011 03 06.28884	09 58 27.15	+06 08 07.1	2011 CR_{101}	20.4	V	G96
2011 EY_{108}	*2011 03 03.22100	09 45 31.96	+13 36 13.2	2011 DZ_{26}	21.1	V	G96
2011 EY_{108}	2011 03 03.22621	09 45 31.68	+13 36 14.2	2011 DZ_{26}	21.2	V	G96
2011 EY_{108}	2011 03 03.23147	09 45 31.46	+13 36 15.1	2011 DZ_{26}	21.3	V	G96
2011 EY_{108}	2011 03 03.23671	09 45 31.28	+13 36 16.5	2011 DZ_{26}	21.3	V	G96
2011 EZ_{108}	*2011 03 04.21668	09 46 39.90	+11 30 40.8	2011 DW_{30}	21.6	V	G96
2011 EZ_{108}	2011 03 04.21904	09 46 39.79	+11 30 40.6	2011 DW_{30}	21.8	V	G96
2011 EZ_{108}	2011 03 04.22135	09 46 39.64	+11 30 40.7	2011 DW_{30}	21.9	V	G96
2011 EZ_{108}	2011 03 04.22369	09 46 39.54	+11 30 41.1	2011 DW_{30}	22.2	V	G96
2011 EA_{109}	*2011 03 04.23156	10 46 46.38	+07 00 04.4	2011 DR_{35}	20.6	V	G96
2011 EA_{109}	2011 03 04.24600	10 46 45.55	+07 00 13.1	2011 DR_{35}	21.3	V	G96
2011 EA_{109}	2011 03 04.25328	10 46 45.12	+07 00 16.7	2011 DR_{35}	21.0	V	G96
2011 EA_{109}	2011 03 10.14838	10 41 23.05	+07 52 33.5	2011 DR_{35}	21.2	V	691
2011 EA_{109}	2011 03 10.16357	10 41 22.18	+07 52 42.5	2011 DR_{35}	21.3	V	691
2011 EA_{109}	2011 03 10.17878	10 41 21.35	+07 52 50.3	2011 DR_{35}	21.1	V	691
2011 EB_{109}	*2011 03 04.22980	10 49 03.61	+06 34 33.3	2011 DD_{36}	20.7	V	G96
2011 EB_{109}	2011 03 04.23703	10 49 03.14	+06 34 35.5	2011 DD_{36}	20.4	V	G96
2011 EB_{109}	2011 03 04.24432	10 49 02.71	+06 34 37.5	2011 DD_{36}	20.7	V	G96
2011 EB_{109}	2011 03 04.25156	10 49 02.28	+06 34 39.2	2011 DD_{36}	20.8	V	G96
2011 EC_{109}	*2011 03 04.22980	10 49 26.83	+06 31 14.7	2011 DE_{36}	20.8	V	G96
2011 EC_{109}	2011 03 04.23703	10 49 26.43	+06 31 16.7	2011 DE_{36}	20.8	V	G96
2011 EC_{109}	2011 03 04.24432	10 49 26.00	+06 31 18.8	2011 DE_{36}	20.7	V	G96
2011 EC_{109}	2011 03 04.25156	10 49 25.64	+06 31 20.6	2011 DE_{36}	20.7	V	G96
2011 ED_{109}	*2011 03 04.22921	10 48 40.50	+05 44 04.3	2011 DO_{38}	21.1	V	G96
2011 ED_{109}	2011 03 04.23648	10 48 40.10	+05 44 07.3	2011 DO_{38}	21.4	V	G96
2011 ED_{109}	2011 03 04.24373	10 48 39.70	+05 44 11.1	2011 DO_{38}	21.1	V	G96
2011 ED_{109}	2011 03 04.25101	10 48 39.38	+05 44 14.6	2011 DO_{38}	21.6	V	G96
2011 EE_{109}	*2011 03 04.23721	11 35 30.77	+02 28 13.8	2011 DN_{40}	21.1	V	691
2011 EE_{109}	2011 03 04.25237	11 35 29.94	+02 28 19.9	2011 DN_{40}	21.0	V	691
2011 EE_{109}	2011 03 04.26750	11 35 29.05	+02 28 25.5	2011 DN_{40}	21.5	V	691
2011 EF_{109}	*2011 03 04.23211	11 42 08.92	+03 33 25.6	2011 DB_{41}	21.2	V	691
2011 EF_{109}	2011 03 04.24727	11 42 08.05	+03 33 31.4	2011 DB_{41}	21.6	V	691
2011 EF_{109}	2011 03 04.26241	11 42 07.31	+03 33 37.7	2011 DB_{41}	21.3	V	691
2011 EF_{109}	2011 03 14.37976	11 32 52.69	+04 43 44.0	2011 DB_{41}	20.1	V	G96
2011 EF_{109}	2011 03 14.38778	11 32 52.22	+04 43 47.2	2011 DB_{41}	20.2	V	G96
2011 EF_{109}	2011 03 14.39581	11 32 51.75	+04 43 50.9	2011 DB_{41}	20.1	V	G96

2011 EF_{109}		2011	03	14.40398	11	32	51.25	+04	43	54.2	2011	DB_{41}	20.1	V	G96	2011 GL_{105}		2011	04	03.46859	12	50	49.895	−05	33	26.24	2011	FP_{62}	21.5	w	F51
2011 EG_{109}	*	2011	03	04.27646	11	02	43.62	+07	20	23.0	2011	DD_{44}	22.0	V	G96	2011 GL_{105}		2011	04	03.48246	12	50	49.138	−05	33	20.10	2011	FP_{62}	21.6	w	F51
2011 EG_{109}		2011	03	04.28409	11	02	43.33	+07	20	25.3	2011	DD_{44}	22.0	V	G96	2011 GM_{105}	*	2011	04	02.30072	11	23	28.861	+03	58	24.05	2011	FJ_{74}	21.9	w	F51
2011 EG_{109}		2011	03	04.29176	11	02	42.93	+07	20	27.3	2011	DD_{44}	21.2	V	G96	2011 GM_{105}		2011	04	02.31584	11	23	28.134	+03	58	25.31	2011	FJ_{74}	21.8	w	F51
2011 EG_{109}		2011	03	04.29944	11	02	42.57	+07	20	29.4	2011	DD_{44}	21.4	V	G96	2011 GM_{105}		2011	04	02.33204	11	23	27.375	+03	58	26.84	2011	FJ_{74}	21.9	w	F51
2011 EH_{109}	*	2011	03	04.27301	11	00	29.52	+07	46	13.6	2011	DQ_{47}	21.4	V	G96	2011 GM_{105}		2011	04	02.34713	11	23	26.655	+03	58	27.96	2011	FJ_{74}	21.8	w	F51
2011 EH_{109}		2011	03	04.28065	11	00	29.12	+07	46	16.4	2011	DQ_{47}	21.0	V	G96	2011 GN_{105}	*	2011	04	01.29699	12	14	54.70	−09	56	54.0	2011	FQ_{125}	20.1	V	G96
2011 EH_{109}		2011	03	04.28830	11	00	28.62	+07	46	19.7	2011	DQ_{47}	20.8	V	G96	2011 GN_{105}		2011	04	01.30493	12	14	54.31	−09	56	50.0	2011	FQ_{125}	20.6	V	G96
2011 EH_{109}		2011	03	04.29599	11	00	28.15	+07	46	22.5	2011	DQ_{47}	21.5	V	G96	2011 GN_{105}		2011	04	01.31285	12	14	53.95	−09	56	46.1	2011	FQ_{125}	21.2	V	G96
2011 EJ_{109}	*	2011	03	09.42181	11	22	05.86	+02	32	59.6	2011	ER_{25}	21.2	V	291	2011 GN_{105}		2011	04	01.32095	12	14	53.59	−09	56	42.1	2011	FQ_{125}	21.0	V	G96
2011 EJ_{109}		2011	03	09.42553	11	22	05.65	+02	33	00.2	2011	ER_{25}	21.2	V	291	2011 GO_{105}	*	2011	04	04.36915	12	39	35.74	+08	39	10.6	2011	GX_5	20.9	V	G96
2011 EJ_{109}		2011	03	09.43787	11	22	04.94	+02	33	02.6	2011	ER_{25}	21.2	V	291	2011 GO_{105}		2011	04	04.37678	12	39	35.28	+08	39	11.7	2011	GX_5	21.0	V	G96
2011 EK_{109}	*	2011	03	13.46413	11	45	00.82	+16	31	42.0	2011	ET_{51}	20.2	V	G96	2011 GO_{105}		2011	04	04.38437	12	39	34.81	+08	39	12.7	2011	GX_5	21.1	V	G96
2011 EK_{109}		2011	03	13.47147	11	45	00.03	+16	31	38.4	2011	ET_{51}	20.3	V	G96	2011 GO_{105}		2011	04	04.39186	12	39	34.34	+08	39	13.4	2011	GX_5	20.7	V	G96
2011 EK_{109}		2011	03	13.47877	11	44	59.24	+16	31	34.9	2011	ET_{51}	20.3	V	G96	2011 GO_{105}		2011	04	04.41893	12	39	32.83	+08	39	17.1	2011	GX_5	20.1	V	G96
2011 EK_{109}		2011	03	13.48612	11	44	58.45	+16	31	31.1	2011	ET_{51}	20.3	V	G96	2011 GO_{105}		2011	04	04.43411	12	39	31.93	+08	39	19.1	2011	GX_5	20.9	V	G96
2011 EL_{109}	*	2011	03	01.40198	12	04	57.57	+00	09	01.6	2011	FE_{77}	21.3	V	G96	2011 GO_{105}		2011	04	04.44172	12	39	31.46	+08	39	20.6	2011	GX_5	21.0	V	G96
2011 EL_{109}		2011	03	01.40710	12	04	57.39	+00	09	04.7	2011	FE_{77}	21.0	V	G96	2011 HD_{112}	*	2011	04	22.28103	14	19	05.20	−03	00	05.4	2011	GM_{71}	21.1	V	291
2011 EL_{109}		2011	03	01.41235	12	04	57.18	+00	09	08.1	2011	FE_{77}	20.7	V	G96	2011 HD_{112}		2011	04	22.28478	14	19	04.96	−03	00	04.5	2011	GM_{71}	21.3	V	291
2011 EL_{109}		2011	03	01.41748	12	04	57.03	+00	09	10.4	2011	FE_{77}	20.6	V	G96	2011 HD_{112}		2011	04	22.28856	14	19	04.74	−03	00	03.4	2011	GM_{71}	21.3	V	291
2011 EM_{109}	*	2011	03	14.23627	11	07	20.60	+04	22	14.3	2011	FF_{133}	20.1	V	G96	2011 HE_{112}	*	2011	04	29.31771	13	50	35.80	−12	47	38.8	2011	GA_{85}	21.7	V	G96
2011 EM_{109}		2011	03	14.24375	11	07	20.17	+04	22	17.0	2011	FF_{133}	21.3	V	G96	2011 HE_{112}		2011	04	29.32253	13	50	35.52	−12	47	37.2	2011	GA_{85}	22.1	V	G96
2011 EM_{109}		2011	03	14.25125	11	07	19.81	+04	22	19.3	2011	FF_{133}	22.1	V	G96	2011 HE_{112}		2011	04	29.32733	13	50	35.34	−12	47	34.8	2011	GA_{85}	20.7	V	G96
2011 EM_{109}		2011	03	14.25865	11	07	19.38	+04	22	21.3	2011	FF_{133}	21.3	V	G96	2011 HE_{112}		2011	04	29.33204	13	50	34.98	−12	47	34.3	2011	GA_{85}	21.5	V	G96
2011 FM_{170}	*	2011	03	29.41816	12	18	23.65	−01	38	10.6	2011	FX_{14}	20.7	V	G96	2011 HF_{112}	*	2011	04	30.21212	13	22	23.88	−09	15	07.0	2011	HU_{24}	21.9	V	G96
2011 FM_{170}		2011	03	29.42223	12	18	23.47	−01	38	09.0	2011	FX_{14}	20.6	V	G96	2011 HF_{112}		2011	04	30.22088	13	22	23.41	−09	15	05.7	2011	HU_{24}	21.4	V	G96
2011 FM_{170}		2011	03	29.42632	12	18	23.25	−01	38	07.7	2011	FX_{14}	20.4	V	G96	2011 HF_{112}		2011	04	30.22965	13	22	22.94	−09	15	04.1	2011	HU_{24}	21.8	V	G96
2011 FM_{170}		2011	03	29.43041	12	18	23.04	−01	38	05.9	2011	FX_{14}	20.5	V	G96	2011 HF_{112}		2011	04	30.23844	13	22	22.51	−09	15	03.1	2011	HU_{24}	21.4	V	G96
2011 FN_{170}	*	2011	03	30.28114	12	00	56.62	+09	58	31.3	2011	FX_{17}	20.2	R	926	2011 KR_{58}	*	2011	05	26.17565	11	50	16.22	−04	22	32.7	2011	GD_{69}	21.6	R	H06
2011 FN_{170}		2011	03	30.30206	12	00	55.29	+09	58	34.6	2011	FX_{17}	19.7	R	926	2011 KR_{58}		2011	05	26.20751	11	50	16.58	−04	22	38.4	2011	GD_{69}	21.3	R	H06
2011 FO_{170}	*	2011	03	31.36256	11	54	15.045	−00	25	00.41	2011	FR_{85}	20.5	w	F51	2011 KS_{58}	*	2011	05	26.30574	15	24	30.42	−13	24	09.3	2011	HT_{103}	20.6	V	G96
2011 FO_{170}		2011	03	31.37813	11	54	14.160	−00	24	54.21	2011	FR_{85}	20.5	w	F51	2011 KS_{58}		2011	05	26.31544	15	24	29.88	−13	24	09.1	2011	HT_{103}	20.6	V	G96
2011 FO_{170}		2011	03	31.39469	11	54	13.220	−00	24	47.68	2011	FR_{85}	20.5	w	F51	2011 KS_{58}		2011	05	26.32515	15	24	29.34	−13	24	08.8	2011	HT_{103}	20.8	V	G96
2011 FO_{170}		2011	03	31.41022	11	54	12.343	−00	24	41.42	2011	FR_{85}	20.5	w	F51	2011 KS_{58}		2011	05	26.33487	15	24	28.76	−13	24	08.9	2011	HT_{103}	20.6	V	G96
2011 FP_{170}	*	2011	03	31.36256	11	54	11.786	+00	18	27.24	2011	FY_{91}	22.4	w	F51	2011 KS_{58}		2011	06	02.33277	15	18	45.389	−13	25	25.11	2011	HT_{103}	21.0	w	F51
2011 FP_{170}		2011	03	31.37813	11	54	10.921	+00	18	32.15	2011	FY_{91}	22.4	w	F51	2011 KS_{58}		2011	06	02.33343	15	18	45.348	−13	25	25.03	2011	HT_{103}	21.0	w	F51
2011 FP_{170}		2011	03	31.41022	11	54	09.073	+00	18	40.57	2011	FY_{91}	22.3	w	F51	2011 KS_{58}		2011	06	02.34604	15	18	44.749	−13	25	25.60	2011	HT_{103}	21.1	w	F51
2011 FQ_{170}	*	2011	03	30.29314	12	02	13.015	+21	50	33.12	2011	FT_{126}	20.9	i	F51	2011 KS_{58}		2011	06	02.34671	15	18	44.716	−13	25	25.60	2011	HT_{103}	21.0	w	F51
2011 FQ_{170}		2011	03	30.30531	12	02	12.460	+21	50	35.57	2011	FT_{126}	20.9	i	F51	2011 KS_{58}		2011	06	02.35931	15	18	44.112	−13	25	26.24	2011	HT_{103}	21.0	w	F51
2011 FQ_{170}		2011	03	30.31849	12	02	11.843	+21	50	38.47	2011	FT_{126}	21.2	g	F51	2011 KS_{58}		2011	06	02.37257	15	18	43.483	−13	25	26.61	2011	HT_{103}	20.9	w	F51
2011 FQ_{170}		2011	03	30.32990	12	02	11.332	+21	50	41.18	2011	FT_{126}	21.1	g	F51	2011 KS_{58}		2011	06	02.37324	15	18	43.441	−13	25	26.53	2011	HT_{103}	21.1	w	F51
2011 FR_{170}	*	2011	03	30.36699	11	17	08.810	+03	49	41.16	2011	FB_{137}	21.7	w	F51	2011 LX_{35}	*	2011	06	03.22366	14	21	48.36	+10	35	56.2	2011	JJ_5	20.6	R	G89
2011 FR_{170}		2011	03	30.38030	11	17	08.159	+03	49	43.12	2011	FB_{137}	22.0	w	F51	2011 LX_{35}		2011	06	03.24494	14	21	47.96	+10	35	51.2	2011	JJ_5	20.6	R	G89
2011 FR_{170}		2011	03	30.39475	11	17	07.451	+03	49	44.96	2011	FB_{137}	22.0	w	F51	2011 LX_{35}		2011	06	03.25709	14	21	47.73	+10	35	48.4	2011	JJ_5	20.6	R	G89
2011 FS_{170}	*	2011	03	30.36699	11	16	59.287	+03	51	11.57	2011	FC_{137}	22.1	w	F51	2011 LY_{35}	*	2011	06	08.15953	16	44	51.02	−05	50	19.2	2011	KH_{36}	19.8	R	926
2011 FS_{170}		2011	03	30.38030	11	16	58.554	+03	51	14.66	2011	FC_{137}	22.3	w	F51	2011 LY_{35}		2011	06	08.17338	16	44	50.33	−05	50	19.3	2011	KH_{36}	19.6	R	926
2011 FS_{170}		2011	03	30.40803	11	16	57.090	+03	51	21.81	2011	FC_{137}	22.2	w	F51	2011 LY_{35}		2011	06	08.18723	16	44	49.66	−05	50	20.0	2011	KH_{36}	19.5	R	926
2011 GK_{105}	*	2011	04	04.27597	11	44	25.54	+05	49	45.8	2011	FF_{55}	21.9	V	G96	2011 LY_{35}		2011	06	10.33656	16	43	12.83	−05	52	19.1	2011	KH_{36}	19.3	R	926
2011 GK_{105}		2011	04	04.28357	11	44	25.22	+05	49	48.1	2011	FF_{55}	22.4	V	G96	2011 LY_{35}		2011	06	10.34935	16	43	12.22	−05	52	20.4	2011	KH_{36}	19.5	R	926
2011 GK_{105}		2011	04	04.29097	11	44	24.93	+05	49	51.1	2011	FF_{55}	22.7	V	G96	2011 LY_{35}		2011	06	10.36222	16	43	11.61	−05	52	21.2	2011	KH_{36}	19.4	R	926
2011 GK_{105}		2011	04	04.29858	11	44	24.57	+05	49	53.8	2011	FF_{55}	22.7	V	G96	2011 LY_{35}		2011	06	11.34729	16	42	28.84	−05	53	42.7	2011	KH_{36}	19.5	R	926
2011 GL_{105}	*	2011	04	03.43885	12	50	51.532	−05	33	38.86	2011	FP_{62}	21.5	w	F51	2011 LY_{35}		2011	06	11.35781	16	42	28.36	−05	53	43.9	2011	KH_{36}	19.4	R	926
2011 GL_{105}		2011	04	03.45275	12	50	50.764	−05	33	32.79	2011	FP_{62}	21.5	w	F51	2011 LY_{35}		2011	06	11.36799	16	42	27.88	−05	53	44.8	2011	KH_{36}	19.7	R	926

2011 LZ_{35}	*2011 06 07.36427	16 32 01.64	−17 46 00.6	2011 LQ_{13}	19.2	V	G96
2011 LZ_{35}	2011 06 07.36613	16 32 01.46	−17 46 00.1	2011 LQ_{13}	19.5	V	G96
2011 LZ_{35}	2011 06 07.36800	16 32 01.35	−17 45 59.5	2011 LQ_{13}	19.8	V	G96
2011 LZ_{35}	2011 06 07.36985	16 32 01.28	−17 45 58.8	2011 LQ_{13}	19.6	V	G96
2011 MW_{15}	*2011 06 24.21892	13 02 17.77	−00 19 53.4	2011 FH_{51}	22.2	V	G96
2011 MW_{15}	2011 06 24.22411	13 02 17.88	−00 19 56.3	2011 FH_{51}	22.0	V	G96
2011 OP_{74}	*2011 07 25.44053	20 50 13.364	−17 26 30.58	2011 JU_{9}	21.6	w	F51
2011 OP_{74}	2011 07 25.45580	20 50 12.419	−17 26 54.60	2011 JU_{9}	21.6	w	F51
2011 OP_{74}	2011 07 25.47098	20 50 11.481	−17 27 18.64	2011 JU_{9}	21.5	w	F51
2011 OP_{74}	2011 07 27.43307	20 48 15.495	−18 19 25.74	2011 JU_{9}	21.4	g	F51
2011 OP_{74}	2011 07 27.44273	20 48 14.870	−18 19 41.08	2011 JU_{9}	21.3	g	F51
2011 OP_{74}	2011 07 27.45325	20 48 14.198	−18 19 58.24	2011 JU_{9}	21.2	r	F51
2011 OP_{74}	2011 07 27.46250	20 48 13.587	−18 20 12.91	2011 JU_{9}	21.1	r	F51
2011 ST_{335}	*2011 09 20.34885	23 45 48.78	+07 19 17.2	2011 QV_{61}	20.2	V	G96
2011 ST_{335}	2011 09 20.35585	23 45 48.42	+07 19 15.9	2011 QV_{61}	20.5	V	G96
2011 ST_{335}	2011 09 20.36230	23 45 48.06	+07 19 15.2	2011 QV_{61}	20.5	V	G96
2011 ST_{335}	2011 09 20.36871	23 45 47.73	+07 19 14.0	2011 QV_{61}	20.1	V	G96
2011 SU_{335}	*2011 09 24.23160	22 10 21.18	−13 31 37.4	2011 QP_{81}	21.1	V	G96
2011 SU_{335}	2011 09 24.23679	22 10 21.03	−13 31 38.0	2011 QP_{81}	20.6	V	G96
2011 SU_{335}	2011 09 24.24203	22 10 20.85	−13 31 38.9	2011 QP_{81}	21.5	V	G96
2011 SU_{335}	2011 09 24.24727	22 10 20.71	−13 31 39.2	2011 QP_{81}	21.3	V	G96
2011 SV_{335}	*2011 09 24.29803	23 34 04.80	+00 26 04.5	2011 SE_{44}	21.4	V	G96
2011 SV_{335}	2011 09 24.30323	23 34 04.47	+00 26 03.8	2011 SE_{44}	21.4	V	G96
2011 SV_{335}	2011 09 24.30846	23 34 04.26	+00 26 03.6	2011 SE_{44}	21.0	V	G96
2011 SV_{335}	2011 09 24.31369	23 34 03.97	+00 26 02.4	2011 SE_{44}	21.7	V	G96
2011 SW_{335}	*2011 09 24.25679	22 50 14.78	+02 38 55.6	2011 SV_{44}	22.1	V	G96
2011 SW_{335}	2011 09 24.26203	22 50 14.60	+02 38 53.0	2011 SV_{44}	22.4	V	G96
2011 SW_{335}	2011 09 24.26734	22 50 14.31	+02 38 50.3	2011 SV_{44}	21.1	V	G96
2011 SW_{335}	2011 09 24.27252	22 50 14.10	+02 38 48.1	2011 SV_{44}	21.0	V	G96
2011 SX_{335}	*2011 09 24.32640	23 48 25.84	+02 04 51.5	2011 SE_{46}	21.2	V	G96
2011 SX_{335}	2011 09 24.33446	23 48 25.38	+02 04 50.3	2011 SE_{46}	22.0	V	G96
2011 SX_{335}	2011 09 24.34252	23 48 24.98	+02 04 47.8	2011 SE_{46}	22.1	V	G96
2011 SX_{335}	2011 09 24.35057	23 48 24.58	+02 04 46.2	2011 SE_{46}	21.9	V	G96
2011 SY_{335}	*2011 09 24.39722	00 47 53.52	+05 10 48.6	2011 SQ_{52}	20.9	V	G96
2011 SY_{335}	2011 09 24.40263	00 47 53.23	+05 10 46.9	2011 SQ_{52}	20.7	V	G96
2011 SY_{335}	2011 09 24.40806	00 47 52.98	+05 10 45.9	2011 SQ_{52}	20.8	V	G96
2011 SY_{335}	2011 09 24.41344	00 47 52.69	+05 10 44.5	2011 SQ_{52}	20.3	V	G96
2011 SZ_{335}	*2011 09 26.28179	23 48 44.20	+05 12 29.9	2011 SN_{76}	19.9	V	703
2011 SZ_{335}	2011 09 26.28896	23 48 43.84	+05 12 27.0	2011 SN_{76}	20.8	V	703
2011 SZ_{335}	2011 09 26.29613	23 48 43.45	+05 12 24.5	2011 SN_{76}	20.1	V	703
2011 SZ_{335}	2011 09 26.30336	23 48 43.27	+05 12 22.1	2011 SN_{76}	20.5	V	703
2011 SA_{336}	*2011 09 26.29262	23 56 52.58	+01 21 45.8	2011 SP_{81}	20.0	V	G96
2011 SA_{336}	2011 09 26.29950	23 56 52.22	+01 21 43.5	2011 SP_{81}	20.0	V	G96
2011 SA_{336}	2011 09 26.30635	23 56 51.90	+01 21 41.5	2011 SP_{81}	19.9	V	G96
2011 SA_{336}	2011 09 26.31319	23 56 51.57	+01 21 39.6	2011 SP_{81}	19.8	V	G96
2011 SB_{336}	*2011 09 26.29262	23 57 34.23	+01 15 31.6	2011 SX_{81}	21.2	V	G96
2011 SB_{336}	2011 09 26.29950	23 57 33.91	+01 15 29.7	2011 SX_{81}	21.1	V	G96
2011 SB_{336}	2011 09 26.30635	23 57 33.51	+01 15 27.6	2011 SX_{81}	21.9	V	G96
2011 SB_{336}	2011 09 26.31319	23 57 33.15	+01 15 26.3	2011 SX_{81}	22.2	V	G96
2011 SC_{336}	*2011 09 30.24275	01 19 42.58	+15 28 03.5	2011 SK_{87}	20.7	V	691
2011 SC_{336}	2011 09 30.26052	01 19 41.73	+15 28 00.7	2011 SK_{87}	20.7	V	691
2011 SC_{336}	2011 09 30.27830	01 19 40.87	+15 27 57.9	2011 SK_{87}	20.9	V	691
2011 SD_{336}	*2011 09 28.19365	01 02 16.36	+06 37 28.0	2011 SO_{121}	20.4	V	691
2011 SD_{336}	2011 09 28.20885	01 02 15.75	+06 37 20.8	2011 SO_{121}	20.3	V	691
2011 SD_{336}	2011 09 28.22409	01 02 15.14	+06 37 13.3	2011 SO_{121}	20.4	V	691
2011 SD_{336}	2011 09 29.16904	01 01 37.52	+06 29 20.2	2011 SO_{121}	20.4	R	J04
2011 SD_{336}	2011 09 29.19045	01 01 36.62	+06 29 09.6	2011 SO_{121}	20.6	R	J04
2011 SD_{336}	2011 09 29.21186	01 01 35.76	+06 28 59.0	2011 SO_{121}	20.0	R	J04
2011 SE_{336}	*2011 09 28.31248	02 01 20.19	+06 29 07.8	2011 SD_{133}	21.0	V	691
2011 SE_{336}	2011 09 28.33018	02 01 19.60	+06 29 02.7	2011 SD_{133}	20.9	V	691
2011 SE_{336}	2011 09 28.34788	02 01 18.95	+06 28 57.6	2011 SD_{133}	21.2	V	691
2011 SF_{336}	*2011 09 28.27205	00 43 15.99	+05 11 05.7	2011 SA_{144}	22.3	V	G96
2011 SF_{336}	2011 09 28.28006	00 43 15.49	+05 11 03.8	2011 SA_{144}	21.7	V	G96
2011 SF_{336}	2011 09 28.28804	00 43 15.06	+05 11 03.0	2011 SA_{144}	21.7	V	G96
2011 SF_{336}	2011 09 28.29606	00 43 14.55	+05 11 01.7	2011 SA_{144}	21.9	V	G96
2011 SG_{336}	*2011 09 29.42640	01 27 03.09	+18 22 05.9	2011 ST_{162}	21.1	V	G96
2011 SG_{336}	2011 09 29.43442	01 27 02.73	+18 22 01.7	2011 ST_{162}	20.7	V	G96
2011 SG_{336}	2011 09 29.44252	01 27 02.44	+18 21 57.9	2011 ST_{162}	20.4	V	G96
2011 SG_{336}	2011 09 29.45063	01 27 02.08	+18 21 54.3	2011 ST_{162}	20.5	V	G96
2011 SH_{336}	*2011 09 30.49170	23 30 23.471	+00 36 52.91	2011 SU_{191}	20.9	i	F51
2011 SH_{336}	2011 09 30.49466	23 30 23.317	+00 36 52.30	2011 SU_{191}	21.0	i	F51
2011 SH_{336}	2011 09 30.49762	23 30 23.202	+00 36 51.79	2011 SU_{191}	21.0	i	F51
2011 SH_{336}	2011 09 30.50056	23 30 23.064	+00 36 51.05	2011 SU_{191}	20.9	i	F51
2011 SH_{336}	2011 09 30.50351	23 30 22.938	+00 36 50.57	2011 SU_{191}	20.8	i	F51
2011 SH_{336}	2011 09 30.50649	23 30 22.795	+00 36 49.91	2011 SU_{191}	20.9	i	F51
2011 SH_{336}	2011 09 30.50944	23 30 22.673	+00 36 48.85	2011 SU_{191}	21.0	i	F51
2011 SJ_{336}	*2011 09 27.30863	01 43 33.27	+22 09 52.5	2011 UL_{60}	20.5	V	G96
2011 SJ_{336}	2011 09 27.31427	01 43 33.02	+22 09 53.7	2011 UL_{60}	20.4	V	G96
2011 SJ_{336}	2011 09 27.32000	01 43 32.80	+22 09 54.5	2011 UL_{60}	20.2	V	G96
2011 SJ_{336}	2011 09 27.32575	01 43 32.55	+22 09 55.1	2011 UL_{60}	20.5	V	G96
2011 TO_{22}	*2011 10 03.29272	00 11 48.04	+00 41 07.2	2011 SF_{237}	21.6	V	G96
2011 TO_{22}	2011 10 03.29799	00 11 47.76	+00 41 05.5	2011 SF_{237}	21.3	V	G96
2011 TO_{22}	2011 10 03.30314	00 11 47.54	+00 41 04.3	2011 SF_{237}	20.8	V	G96
2011 TO_{22}	2011 10 03.30838	00 11 47.29	+00 41 03.1	2011 SF_{237}	20.6	V	G96
2011 TP_{22}	*2011 10 03.29216	00 08 50.74	+01 22 57.3	2011 SO_{236}	21.6	V	G96
2011 TP_{22}	2011 10 03.29741	00 08 50.53	+01 22 54.7	2011 SO_{236}	22.2	V	G96
2011 TP_{22}	2011 10 03.30256	00 08 50.35	+01 22 52.1	2011 SO_{236}	21.7	V	G96
2011 TP_{22}	2011 10 03.30780	00 08 50.10	+01 22 49.4	2011 SO_{236}	22.0	V	G96
2011 TQ_{22}	*2011 10 03.29216	00 12 10.72	+01 16 46.4	2011 SH_{237}	21.4	V	G96
2011 TQ_{22}	2011 10 03.29741	00 12 10.47	+01 16 45.2	2011 SH_{237}	21.4	V	G96
2011 TQ_{22}	2011 10 03.30256	00 12 10.26	+01 16 43.7	2011 SH_{237}	22.1	V	G96
2011 TQ_{22}	2011 10 03.30780	00 12 10.04	+01 16 42.7	2011 SH_{237}	21.7	V	G96
2011 TR_{22}	*2011 10 03.29162	00 14 26.98	+01 23 22.9	2011 SD_{238}	21.8	V	G96
2011 TR_{22}	2011 10 03.29683	00 14 26.70	+01 23 20.6	2011 SD_{238}	21.2	V	G96
2011 TR_{22}	2011 10 03.30200	00 14 26.48	+01 23 18.5	2011 SD_{238}	21.7	V	G96
2011 TR_{22}	2011 10 03.30723	00 14 26.19	+01 23 16.5	2011 SD_{238}	21.4	V	G96
2011 TS_{22}	*2011 10 03.29106	00 15 31.60	+00 50 25.0	2011 SF_{238}	21.0	V	G96
2011 TS_{22}	2011 10 03.29624	00 15 31.35	+00 50 22.0	2011 SF_{238}	21.9	V	G96
2011 TS_{22}	2011 10 03.30140	00 15 31.10	+00 50 18.8	2011 SF_{238}	21.8	V	G96
2011 TS_{22}	2011 10 03.30663	00 15 30.85	+00 50 16.6	2011 SF_{238}	21.9	V	G96
2011 TT_{22}	*2011 10 03.31726	00 16 03.21	+03 10 42.2	2011 SJ_{239}	20.7	V	G96
2011 TT_{22}	2011 10 03.32075	00 16 03.03	+03 10 41.1	2011 SJ_{239}	20.9	V	G96
2011 TT_{22}	2011 10 03.32425	00 16 02.85	+03 10 40.2	2011 SJ_{239}	21.5	V	G96
2011 TT_{22}	2011 10 03.32775	00 16 02.71	+03 10 38.6	2011 SJ_{239}	20.8	V	G96
2011 TU_{22}	*2011 10 03.28880	00 19 56.13	+01 11 59.6	2011 SE_{242}	20.2	V	G96
2011 TU_{22}	2011 10 03.29389	00 19 55.81	+01 11 58.4	2011 SE_{242}	20.4	V	G96

2011 TU_{22}	2011 10 03.29917	00 19 55.52	+01 11 57.1	2011 SE_{242}	20.7	V	G96
2011 TU_{22}	2011 10 03.30432	00 19 55.20	+01 11 55.8	2011 SE_{242}	20.6	V	G96
2011 UF_{477}	*2011 10 26.25474	03 21 19.62	+15 56 07.0	2011 UA_{148}	20.4	V	691
2011 UF_{477}	2011 10 26.27251	03 21 18.84	+15 56 01.4	2011 UA_{148}	20.4	V	691
2011 UF_{477}	2011 10 26.29027	03 21 18.08	+15 55 56.2	2011 UA_{148}	20.3	V	691
2011 UG_{477}	*2011 10 30.25899	01 32 58.20	+09 21 31.9	2011 UB_{223}	21.7	V	G96
2011 UG_{477}	2011 10 30.26647	01 32 57.76	+09 21 31.3	2011 UB_{223}	21.7	V	G96
2011 UG_{477}	2011 10 30.27404	01 32 57.37	+09 21 31.2	2011 UB_{223}	21.2	V	G96
2011 UG_{477}	2011 10 30.28162	01 32 56.94	+09 21 31.5	2011 UB_{223}	21.1	V	G96
2011 UH_{477}	*2011 10 30.35165	01 53 09.24	+15 00 40.8	2011 US_{244}	20.8	V	G96
2011 UH_{477}	2011 10 30.35976	01 53 08.84	+15 00 39.8	2011 US_{244}	21.9	V	G96
2011 UH_{477}	2011 10 30.36780	01 53 08.37	+15 00 39.6	2011 US_{244}	22.4	V	G96
2011 UH_{477}	2011 10 30.37602	01 53 07.90	+15 00 38.2	2011 US_{244}	22.0	V	G96
2011 UL_{477}	*2011 10 18.21847	23 24 24.22	−05 07 46.0	2011 SZ_{197}	21.7	V	G96
2011 UL_{477}	2011 10 18.22375	23 24 24.08	−05 07 45.8	2011 SZ_{197}	21.7	V	G96
2011 UL_{477}	2011 10 18.22901	23 24 23.90	−05 07 45.3	2011 SZ_{197}	21.7	V	G96
2011 UL_{477}	2011 10 18.23425	23 24 23.79	−05 07 45.3	2011 SZ_{197}	21.8	V	G96
2011 UM_{477}	*2011 10 19.39228	01 15 56.52	+08 14 09.4	2011 SP_{211}	20.6	V	G96
2011 UM_{477}	2011 10 19.40003	01 15 56.12	+08 14 07.2	2011 SP_{211}	20.8	V	G96
2011 UM_{477}	2011 10 19.40787	01 15 55.72	+08 14 04.3	2011 SP_{211}	20.6	V	G96
2011 UM_{477}	2011 10 19.41580	01 15 55.36	+08 14 01.8	2011 SP_{211}	20.6	V	G96
2011 UN_{477}	*2011 10 19.43357	01 46 41.44	+15 46 26.9	2011 TL_7	21.2	V	G96
2011 UN_{477}	2011 10 19.44105	01 46 40.98	+15 46 24.3	2011 TL_7	21.9	V	G96
2011 UN_{477}	2011 10 19.44852	01 46 40.40	+15 46 22.1	2011 TL_7	21.6	V	G96
2011 UN_{477}	2011 10 19.45597	01 46 39.90	+15 46 18.8	2011 TL_7	22.2	V	G96
2011 UO_{477}	*2011 10 21.36820	04 09 27.37	+16 48 16.7	2011 UT_{35}	20.8	V	691
2011 UO_{477}	2011 10 21.38595	04 09 26.77	+16 48 16.7	2011 UT_{35}	21.3	V	691
2011 UO_{477}	2011 10 21.40372	04 09 26.26	+16 48 15.8	2011 UT_{35}	21.2	V	691
2011 UP_{477}	*2011 10 21.31204	01 22 09.151	+09 44 21.11	2011 UE_{42}	21.4	w	F51
2011 UP_{477}	2011 10 21.32587	01 22 08.412	+09 44 19.42	2011 UE_{42}	21.2	w	F51
2011 UP_{477}	2011 10 21.33971	01 22 07.662	+09 44 17.54	2011 UE_{42}	21.2	w	F51
2011 UP_{477}	2011 10 21.35356	01 22 06.912	+09 44 15.68	2011 UE_{42}	21.0	w	F51
2011 UQ_{477}	*2011 10 23.29582	01 11 58.81	+17 05 19.4	2011 UM_{64}	21.0	V	G96
2011 UQ_{477}	2011 10 23.30065	01 11 58.56	+17 05 17.9	2011 UM_{64}	20.9	V	G96
2011 UQ_{477}	2011 10 23.30547	01 11 58.30	+17 05 16.9	2011 UM_{64}	20.8	V	G96
2011 UQ_{477}	2011 10 23.31022	01 11 58.05	+17 05 15.1	2011 UM_{64}	20.6	V	G96
2011 UR_{477}	*2011 10 27.24865	01 40 11.78	+02 11 52.1	2011 UQ_{121}	19.3	V	703
2011 UR_{477}	2011 10 27.25559	01 40 11.31	+02 11 50.7	2011 UQ_{121}	19.4	V	703
2011 UR_{477}	2011 10 27.26254	01 40 10.95	+02 11 49.5	2011 UQ_{121}	19.3	V	703
2011 UR_{477}	2011 10 27.26943	01 40 10.52	+02 11 47.1	2011 UQ_{121}	19.3	V	703
2011 US_{477}	*2011 10 27.27822	02 17 23.46	+04 01 17.6	2011 UN_{160}	19.6	V	703
2011 US_{477}	2011 10 27.28727	02 17 22.92	+04 01 14.3	2011 UN_{160}	19.3	V	703
2011 US_{477}	2011 10 27.29648	02 17 22.38	+04 01 13.0	2011 UN_{160}	19.9	V	703
2011 US_{477}	2011 10 27.30567	02 17 21.76	+04 01 10.3	2011 UN_{160}	19.9	V	703
2011 UT_{477}	*2011 10 28.43468	04 30 20.16	+11 09 39.7	2011 UL_{174}	20.8	V	G96
2011 UT_{477}	2011 10 28.44001	04 30 19.98	+11 09 38.1	2011 UL_{174}	21.2	V	G96
2011 UT_{477}	2011 10 28.44535	04 30 19.83	+11 09 36.5	2011 UL_{174}	21.0	V	G96
2011 UT_{477}	2011 10 28.45060	04 30 19.65	+11 09 34.6	2011 UL_{174}	20.8	V	G96
2011 UU_{477}	*2011 10 29.39221	04 33 22.18	+19 03 39.4	2011 UW_{198}			691
2011 UU_{477}	2011 10 29.40996	04 33 21.71	+19 03 35.6	2011 UW_{198}			691
2011 UU_{477}	2011 10 29.42773	04 33 21.14	+19 03 31.7	2011 UW_{198}			691
2011 UV_{477}	*2011 10 30.29077	02 30 45.10	+08 37 37.7	2011 US_{206}	18.8	V	703
2011 UV_{477}	2011 10 30.29878	02 30 44.64	+08 37 37.4	2011 US_{206}	18.3	V	703
2011 UV_{477}	2011 10 30.30685	02 30 44.10	+08 37 35.8	2011 US_{206}	18.3	V	703
2011 UW_{477}	*2011 10 30.18773	01 32 52.54	+12 13 11.8	2011 UD_{215}	21.5	V	G96
2011 UW_{477}	2011 10 30.19581	01 32 52.04	+12 13 07.8	2011 UD_{215}	21.5	V	G96
2011 UW_{477}	2011 10 30.20383	01 32 51.64	+12 13 04.1	2011 UD_{215}	21.3	V	G96
2011 UW_{477}	2011 10 30.21182	01 32 51.21	+12 13 00.5	2011 UD_{215}	21.3	V	G96
2011 UX_{477}	*2011 10 30.29632	01 45 36.97	+07 08 42.3	2011 UZ_{217}	21.4	V	G96
2011 UX_{477}	2011 10 30.30458	01 45 36.61	+07 08 39.2	2011 UZ_{217}	21.3	V	G96
2011 UX_{477}	2011 10 30.31287	01 45 36.25	+07 08 35.6	2011 UZ_{217}	21.3	V	G96
2011 UY_{477}	*2011 10 30.29097	01 40 47.06	+08 19 25.8	2011 UL_{219}	21.3	V	G96
2011 UY_{477}	2011 10 30.29917	01 40 46.63	+08 19 24.8	2011 UL_{219}	21.1	V	G96
2011 UY_{477}	2011 10 30.30747	01 40 46.23	+08 19 24.2	2011 UL_{219}	21.9	V	G96
2011 UY_{477}	2011 10 30.31575	01 40 45.84	+08 19 23.2	2011 UL_{219}	22.1	V	G96
2011 UZ_{477}	*2011 10 30.29097	01 42 41.54	+08 30 24.0	2011 UB_{220}	20.6	V	G96
2011 UZ_{477}	2011 10 30.29917	01 42 41.07	+08 30 22.7	2011 UB_{220}	20.5	V	G96
2011 UZ_{477}	2011 10 30.30747	01 42 40.64	+08 30 21.7	2011 UB_{220}	20.4	V	G96
2011 UZ_{477}	2011 10 30.31575	01 42 40.14	+08 30 20.6	2011 UB_{220}	20.8	V	G96
2011 UA_{478}	*2011 10 30.25556	01 38 45.34	+09 09 13.7	2011 UJ_{221}	22.3	V	G96
2011 UA_{478}	2011 10 30.26304	01 38 44.95	+09 09 13.0	2011 UJ_{221}	22.0	V	G96
2011 UA_{478}	2011 10 30.27053	01 38 44.62	+09 09 10.7	2011 UJ_{221}	21.4	V	G96
2011 UA_{478}	2011 10 30.27813	01 38 44.19	+09 09 08.5	2011 UJ_{221}	20.8	V	G96
2011 UB_{478}	*2011 10 30.26013	01 33 13.86	+07 32 32.2	2011 UX_{223}	20.9	V	G96
2011 UB_{478}	2011 10 30.26762	01 33 13.46	+07 32 30.9	2011 UX_{223}	21.7	V	G96
2011 UB_{478}	2011 10 30.27520	01 33 13.06	+07 32 30.4	2011 UX_{223}	21.1	V	G96
2011 UB_{478}	2011 10 30.28278	01 33 12.70	+07 32 30.1	2011 UX_{223}	20.7	V	G96
2011 UC_{478}	*2011 10 30.25954	01 34 42.13	+07 41 28.1	2011 UM_{224}	22.4	V	G96
2011 UC_{478}	2011 10 30.26704	01 34 41.73	+07 41 26.6	2011 UM_{224}	21.6	V	G96
2011 UC_{478}	2011 10 30.27462	01 34 41.30	+07 41 26.7	2011 UM_{224}	21.1	V	G96
2011 UC_{478}	2011 10 30.28220	01 34 40.90	+07 41 24.6	2011 UM_{224}	21.0	V	G96
2011 UD_{478}	*2011 10 30.26013	01 34 36.91	+06 33 14.7	2011 UV_{225}	20.8	V	G96
2011 UD_{478}	2011 10 30.26762	01 34 36.51	+06 33 14.3	2011 UV_{225}	20.9	V	G96
2011 UD_{478}	2011 10 30.27520	01 34 36.12	+06 33 13.8	2011 UV_{225}	20.6	V	G96
2011 UD_{478}	2011 10 30.28278	01 34 35.72	+06 33 13.0	2011 UV_{225}	21.1	V	G96
2011 UE_{478}	*2011 10 30.25784	01 37 57.43	+04 58 22.7	2011 UF_{228}	21.1	V	G96
2011 UE_{478}	2011 10 30.26534	01 37 57.03	+04 58 21.0	2011 UF_{228}	21.1	V	G96
2011 UE_{478}	2011 10 30.27285	01 37 56.71	+04 58 19.4	2011 UF_{228}	20.8	V	G96
2011 UE_{478}	2011 10 30.28043	01 37 56.35	+04 58 17.6	2011 UF_{228}	20.9	V	G96
2011 UF_{478}	*2011 10 30.26013	01 33 35.82	+07 04 10.1	2011 UK_{229}	21.1	V	G96
2011 UF_{478}	2011 10 30.26762	01 33 35.42	+07 04 09.4	2011 UK_{229}	21.1	V	G96
2011 UF_{478}	2011 10 30.27520	01 33 35.02	+07 04 08.0	2011 UK_{229}	20.4	V	G96
2011 UF_{478}	2011 10 30.28278	01 33 34.59	+07 04 08.1	2011 UK_{229}	20.8	V	G96
2011 UG_{478}	*2011 10 30.26013	01 33 39.92	+06 59 20.5	2011 UN_{229}	21.3	V	G96
2011 UG_{478}	2011 10 30.26762	01 33 39.52	+06 59 19.9	2011 UN_{229}	21.4	V	G96
2011 UG_{478}	2011 10 30.27520	01 33 39.13	+06 59 19.3	2011 UN_{229}	21.7	V	G96
2011 UG_{478}	2011 10 30.28278	01 33 38.70	+06 59 18.0	2011 UN_{229}	21.7	V	G96
2011 UH_{478}	*2011 10 30.26127	01 33 37.62	+04 54 50.2	2011 UB_{230}	21.7	V	G96
2011 UH_{478}	2011 10 30.26877	01 33 37.29	+04 54 47.8	2011 UB_{230}	21.4	V	G96
2011 UH_{478}	2011 10 30.27635	01 33 36.97	+04 54 45.2	2011 UB_{230}	21.5	V	G96
2011 UH_{478}	2011 10 30.28394	01 33 36.57	+04 54 42.2	2011 UB_{230}	21.3	V	G96
2011 UJ_{478}	*2011 10 30.35744	01 37 35.18	+11 21 25.7	2011 US_{231}	21.2	V	G96
2011 UJ_{478}	2011 10 30.36551	01 37 34.71	+11 21 24.8	2011 US_{231}	21.3	V	G96
2011 UJ_{478}	2011 10 30.37366	01 37 34.21	+11 21 24.1	2011 US_{231}	21.5	V	G96
2011 UJ_{478}	2011 10 30.38185	01 37 33.74	+11 21 23.1	2011 US_{231}	20.9	V	G96
2011 UK_{478}	*2011 10 30.18831	01 33 41.61	+11 15 29.9	2011 UN_{232}	22.5	V	G96

2011 UK_{478}		2011 10 30.19639	01 33 41.14	+11 15 26.6	2011 UN_{232}	21.7	V	G96	2011 WQ_{181}		2011 11 17.28712	02 49 48.79	+19 39 43.7	2011 UW_{180}	21.1	V	G96
2011 UK_{478}		2011 10 30.20441	01 33 40.64	+11 15 23.9	2011 UN_{232}	21.6	V	G96	2011 WR_{181}	*	2011 11 17.27212	02 41 44.73	+19 24 51.8	2011 UT_{236}	21.1	V	G96
2011 UK_{478}		2011 10 30.21240	01 33 40.17	+11 15 19.4	2011 UN_{232}	22.4	V	G96	2011 WR_{181}		2011 11 17.27904	02 41 44.34	+19 24 51.5	2011 UT_{236}	21.3	V	G96
2011 UL_{478}	*	2011 10 30.43591	04 11 27.60	+22 12 22.6	2011 UF_{244}	21.4	V	G96	2011 WR_{181}		2011 11 17.28594	02 41 43.98	+19 24 51.6	2011 UT_{236}	21.0	V	G96
2011 UL_{478}		2011 10 30.44339	04 11 27.24	+22 12 21.4	2011 UF_{244}	21.9	V	G96	2011 WR_{181}		2011 11 17.29286	02 41 43.58	+19 24 52.0	2011 UT_{236}	21.3	V	G96
2011 UL_{478}		2011 10 30.45090	04 11 26.98	+22 12 21.2	2011 UF_{244}	21.5	V	G96	2011 WS_{181}	*	2011 11 22.36534	03 48 58.03	+19 24 31.6	2011 UU_{242}	20.5	V	G96
2011 UL_{478}		2011 10 30.45843	04 11 26.66	+22 12 20.0	2011 UF_{244}	20.9	V	G96	2011 WS_{181}		2011 11 22.37059	03 48 57.74	+19 24 30.3	2011 UU_{242}	20.3	V	G96
2011 UM_{478}	*	2011 10 30.35223	01 52 54.08	+13 22 15.4	2011 UR_{244}	20.1	V	G96	2011 WS_{181}		2011 11 22.37586	03 48 57.42	+19 24 28.5	2011 UU_{242}	20.5	V	G96
2011 UM_{478}		2011 10 30.36034	01 52 53.61	+13 22 14.1	2011 UR_{244}	20.3	V	G96	2011 WS_{181}		2011 11 22.38112	03 48 57.16	+19 24 27.3	2011 UU_{242}	20.6	V	G96
2011 UM_{478}		2011 10 30.36839	01 52 53.18	+13 22 13.0	2011 UR_{244}	20.2	V	G96	2011 WT_{181}	*	2011 11 17.23896	01 26 04.59	+09 18 23.4	2011 UV_{350}	21.4	V	G96
2011 UM_{478}		2011 10 30.37661	01 52 52.71	+13 22 12.5	2011 UR_{244}	20.1	V	G96	2011 WT_{181}		2011 11 17.24573	01 26 04.41	+09 18 21.1	2011 UV_{350}	21.0	V	G96
2011 UN_{478}	*	2011 10 31.29152	03 33 06.99	+23 05 22.5	2011 UW_{258}	21.2	V	691	2011 WT_{181}		2011 11 17.25270	01 26 04.27	+09 18 19.1	2011 UV_{350}	20.7	V	G96
2011 UN_{478}		2011 10 31.30930	03 33 06.08	+23 05 17.3	2011 UW_{258}	21.3	V	691	2011 WT_{181}		2011 11 17.25970	01 26 04.05	+09 18 16.6	2011 UV_{350}	21.2	V	G96
2011 UN_{478}		2011 10 31.32707	03 33 05.32	+23 05 11.7	2011 UW_{258}	21.5	V	691	2011 WU_{181}	*	2011 11 23.11978	01 33 54.14	+10 09 01.0	2011 UH_{353}	20.5	V	703
2011 UO_{478}	*	2011 10 31.33919	04 07 42.04	+24 53 18.4	2011 UA_{262}	21.5	V	691	2011 WU_{181}		2011 11 23.12889	01 33 53.89	+10 08 58.7	2011 UH_{353}	20.0	V	703
2011 UO_{478}		2011 10 31.35697	04 07 41.25	+24 53 15.8	2011 UA_{262}	20.7	V	691	2011 WU_{181}		2011 11 23.13818	01 33 53.74	+10 08 56.2	2011 UH_{353}	21.1	V	703
2011 UO_{478}		2011 10 31.37474	04 07 40.38	+24 53 12.2	2011 UA_{262}	21.0	V	691	2011 WU_{181}		2011 11 23.14728	01 33 53.56	+10 08 55.3	2011 UH_{353}	20.4	V	703
2011 UP_{478}	*	2011 10 30.89899	05 02 38.11	+25 03 01.6	2011 UF_{269}	20.8	R	C32	2011 WV_{181}	*	2011 11 22.24517	02 24 09.82	+15 15 00.6	2011 VA_{15}	20.7	V	G96
2011 UP_{478}		2011 10 30.90840	05 02 37.91	+25 03 01.2	2011 UF_{269}			C32	2011 WV_{181}		2011 11 22.25044	02 24 09.54	+15 15 00.0	2011 VA_{15}	19.8	V	G96
2011 UQ_{478}	*	2011 10 31.23326	01 50 53.77	+06 44 28.3	2011 UW_{354}	20.1	V	G96	2011 WV_{181}		2011 11 22.25569	02 24 09.36	+15 14 59.3	2011 VA_{15}	19.9	V	G96
2011 UQ_{478}		2011 10 31.24066	01 50 53.34	+06 44 26.8	2011 UW_{354}	20.2	V	G96	2011 WV_{181}		2011 11 22.26091	02 24 09.00	+15 14 59.2	2011 VA_{15}	20.4	V	G96
2011 UQ_{478}		2011 10 31.25561	01 50 52.47	+06 44 23.6	2011 UW_{354}	20.6	V	G96	2011 WW_{181}	*	2011 11 22.24517	02 25 44.29	+15 12 54.9	2011 VD_{15}	22.2	V	G96
2011 UR_{478}	*	2011 10 31.30961	01 56 03.08	+07 10 12.3	2011 UO_{367}	21.1	V	G96	2011 WW_{181}		2011 11 22.25044	02 25 44.11	+15 12 55.5	2011 VD_{15}	21.4	V	G96
2011 UR_{478}		2011 10 31.31706	01 56 02.68	+07 10 08.8	2011 UO_{367}	20.8	V	G96	2011 WW_{181}		2011 11 22.25569	02 25 43.71	+15 12 54.5	2011 VD_{15}	21.1	V	G96
2011 UR_{478}		2011 10 31.32461	01 56 02.29	+07 10 05.5	2011 UO_{367}	21.3	V	G96	2011 WW_{181}		2011 11 22.26091	02 25 43.46	+15 12 54.2	2011 VD_{15}	21.7	V	G96
2011 UR_{478}		2011 10 31.33214	01 56 01.82	+07 10 02.2	2011 UO_{367}	21.9	V	G96	2011 WX_{181}	*	2011 11 22.30729	03 35 08.91	+18 49 40.7	2011 WT_5	22.3	V	G96
2011 US_{478}	*	2011 10 26.84229	02 03 19.93	+16 55 02.4	2011 UT_{400}			621	2011 WX_{181}		2011 11 22.31250	03 35 08.55	+18 49 40.1	2011 WT_5	22.0	V	G96
2011 US_{478}		2011 10 26.85461	02 03 19.28	+16 54 54.9	2011 UT_{400}			621	2011 WX_{181}		2011 11 22.31773	03 35 08.30	+18 49 40.5	2011 WT_5	21.8	V	G96
2011 US_{478}		2011 10 26.86692	02 03 18.68	+16 54 48.7	2011 UT_{400}	19.2	V	621	2011 WX_{181}		2011 11 22.32299	03 35 07.90	+18 49 40.8	2011 WT_5	21.4	V	G96
2011 US_{478}		2011 10 30.32218	02 00 43.77	+16 24 54.5	2011 UT_{400}	19.0	V	G96	2011 WY_{181}	*	2011 11 22.28510	03 22 47.78	+20 24 13.5	2011 WY_6	21.4	V	G96
2011 US_{478}		2011 10 30.32912	02 00 43.45	+16 24 50.9	2011 UT_{400}	19.2	V	G96	2011 WY_{181}		2011 11 22.29025	03 22 47.49	+20 24 13.5	2011 WY_6	20.9	V	G96
2011 US_{478}		2011 10 30.33605	02 00 43.12	+16 24 47.1	2011 UT_{400}	19.2	V	G96	2011 WY_{181}		2011 11 22.29553	03 22 47.17	+20 24 12.7	2011 WY_6	20.9	V	G96
2011 US_{478}		2011 10 30.34301	02 00 42.80	+16 24 43.6	2011 UT_{400}	19.4	V	G96	2011 WY_{181}		2011 11 22.30079	03 22 46.81	+20 24 12.0	2011 WY_6	20.9	V	G96
2011 VB_{34}	*	2011 11 03.41922	04 38 06.11	+19 04 14.2	2011 WK_{109}	20.9	V	691	2011 WZ_{181}	*	2011 11 22.28339	03 21 04.53	+19 10 06.3	2011 WY_7	21.3	V	G96
2011 VB_{34}		2011 11 03.43700	04 38 05.37	+19 04 12.1	2011 WK_{109}	21.1	V	691	2011 WZ_{181}		2011 11 22.28857	03 21 04.17	+19 10 05.4	2011 WY_7	21.5	V	G96
2011 VB_{34}		2011 11 03.45477	04 38 04.71	+19 04 11.9	2011 WK_{109}	21.5	V	691	2011 WZ_{181}		2011 11 22.29376	03 21 03.81	+19 10 04.9	2011 WY_7	21.8	V	G96
2011 VC_{34}	*	2011 11 03.25366	03 12 42.62	+14 44 00.3	2011 UZ_{341}	20.7	V	691	2011 WZ_{181}		2011 11 22.29903	03 21 03.45	+19 10 03.7	2011 WY_7	20.8	V	G96
2011 VC_{34}		2011 11 03.27142	03 12 41.70	+14 43 57.3	2011 UZ_{341}	20.8	V	691	2011 WA_{182}	*	2011 11 22.28453	03 18 17.56	+19 38 18.6	2011 WM_8	21.5	V	G96
2011 VC_{34}		2011 11 03.28919	03 12 40.78	+14 43 53.3	2011 UZ_{341}	20.8	V	691	2011 WA_{182}		2011 11 22.28966	03 18 17.24	+19 38 17.1	2011 WM_8	21.3	V	G96
2011 VD_{34}	*	2011 11 02.29510	02 24 31.64	+06 49 11.4	2011 UY_{378}	20.5	V	G96	2011 WA_{182}		2011 11 22.29494	03 18 16.95	+19 38 15.7	2011 WM_8	20.9	V	G96
2011 VD_{34}		2011 11 02.29880	02 24 31.42	+06 49 10.9	2011 UY_{378}	20.5	V	G96	2011 WA_{182}		2011 11 22.30020	03 18 16.59	+19 38 14.4	2011 WM_8	20.9	V	G96
2011 VD_{34}		2011 11 02.30253	02 24 31.21	+06 49 10.6	2011 UY_{378}	20.6	V	G96	2011 WB_{182}	*	2011 11 22.30957	03 43 30.43	+19 52 07.3	2011 WZ_9	20.9	V	G96
2011 VD_{34}		2011 11 02.30625	02 24 30.96	+06 49 10.0	2011 UY_{378}	20.8	V	G96	2011 WB_{182}		2011 11 22.31482	03 43 30.14	+19 52 05.9	2011 WZ_9	21.0	V	G96
2011 WN_{181}	*	2011 11 22.24517	02 27 03.09	+15 50 14.5	2011 WK_6	21.4	V	G96	2011 WB_{182}		2011 11 22.32010	03 43 29.82	+19 52 04.8	2011 WZ_9	20.8	V	G96
2011 WN_{181}		2011 11 22.25044	02 27 02.88	+15 50 12.2	2011 WK_6	20.1	V	G96	2011 WB_{182}		2011 11 22.32528	03 43 29.49	+19 52 03.6	2011 WZ_9	20.6	V	G96
2011 WN_{181}		2011 11 22.25569	02 27 02.62	+15 50 10.7	2011 WK_6	20.8	V	G96	2011 WC_{182}	*	2011 11 22.36299	03 44 25.58	+18 24 47.4	2011 WO_{10}	22.2	V	G96
2011 WN_{181}		2011 11 22.26091	02 27 02.44	+15 50 09.2	2011 WK_6	21.0	V	G96	2011 WC_{182}		2011 11 22.36826	03 44 25.29	+18 24 47.0	2011 WO_{10}	21.9	V	G96
2011 WO_{181}	*	2011 11 23.41406	04 23 38.18	+22 10 44.3	2011 WK_{22}	21.5	V	G96	2011 WC_{182}		2011 11 22.37352	03 44 25.04	+18 24 46.2	2011 WO_{10}	20.8	V	G96
2011 WO_{181}		2011 11 23.41929	04 23 37.78	+22 10 44.3	2011 WK_{22}	21.2	V	G96	2011 WC_{182}		2011 11 22.37879	03 44 24.72	+18 24 46.0	2011 WO_{10}	21.5	V	G96
2011 WO_{181}		2011 11 23.42451	04 23 37.50	+22 10 45.4	2011 WK_{22}	21.8	V	G96	2011 WD_{182}	*	2011 11 22.36591	03 45 37.62	+18 57 12.4	2011 WT_{10}	20.4	V	G96
2011 WO_{181}		2011 11 23.42973	04 23 37.14	+22 10 45.5	2011 WK_{22}	22.0	V	G96	2011 WD_{182}		2011 11 22.37117	03 45 37.26	+18 57 10.8	2011 WT_{10}	20.5	V	G96
2011 WQ_{181}	*	2011 11 17.27330	02 49 49.62	+19 39 46.4	2011 UW_{180}	21.2	V	G96	2011 WD_{182}		2011 11 22.37645	03 45 36.90	+18 57 08.3	2011 WT_{10}	20.6	V	G96
2011 WQ_{181}		2011 11 17.28022	02 49 49.18	+19 39 45.1	2011 UW_{180}	21.1	V	G96	2011 WD_{182}		2011 11 22.38168	03 45 36.61	+18 57 07.2	2011 WT_{10}	21.3	V	G96

2011 WE_{182}	*2011 11 22.30616	03 38 58.70	+18 17 21.6	2011 WA_{11}	21.2	V	G96
2011 WE_{182}	2011 11 22.31132	03 38 58.41	+18 17 21.1	2011 WA_{11}	21.0	V	G96
2011 WE_{182}	2011 11 22.31656	03 38 58.09	+18 17 20.8	2011 WA_{11}	20.8	V	G96
2011 WE_{182}	2011 11 22.32184	03 38 57.76	+18 17 20.7	2011 WA_{11}	21.3	V	G96
2011 WF_{182}	*2011 11 22.30670	03 40 25.46	+18 54 11.9	2011 WE_{11}	21.2	V	G96
2011 WF_{182}	2011 11 22.31191	03 40 25.14	+18 54 12.0	2011 WE_{11}	21.0	V	G96
2011 WF_{182}	2011 11 22.31715	03 40 24.78	+18 54 11.1	2011 WE_{11}	21.7	V	G96
2011 WF_{182}	2011 11 22.32243	03 40 24.49	+18 54 10.6	2011 WE_{11}	20.8	V	G96
2011 WG_{182}	*2011 11 22.36299	03 45 37.36	+17 45 49.3	2011 WV_{11}	21.6	V	G96
2011 WG_{182}	2011 11 22.36826	03 45 37.11	+17 45 49.0	2011 WV_{11}	21.1	V	G96
2011 WG_{182}	2011 11 22.37352	03 45 36.79	+17 45 48.0	2011 WV_{11}	21.7	V	G96
2011 WG_{182}	2011 11 22.37879	03 45 36.57	+17 45 47.1	2011 WV_{11}	21.3	V	G96
2011 WH_{182}	*2011 11 22.30616	03 39 04.93	+18 17 44.0	2011 WF_{12}	21.1	V	G96
2011 WH_{182}	2011 11 22.31132	03 39 04.60	+18 17 43.5	2011 WF_{12}	20.8	V	G96
2011 WH_{182}	2011 11 22.31656	03 39 04.35	+18 17 42.9	2011 WF_{12}	21.0	V	G96
2011 WH_{182}	2011 11 22.32184	03 39 03.99	+18 17 43.1	2011 WF_{12}	20.3	V	G96
2011 WJ_{182}	*2011 11 22.28453	03 18 50.83	+19 42 05.5	2011 WN_{12}	20.9	V	G96
2011 WJ_{182}	2011 11 22.28966	03 18 50.54	+19 42 03.6	2011 WN_{12}	21.5	V	G96
2011 WJ_{182}	2011 11 22.29494	03 18 50.25	+19 42 03.2	2011 WN_{12}	21.1	V	G96
2011 WJ_{182}	2011 11 22.30020	03 18 49.96	+19 42 02.6	2011 WN_{12}	21.0	V	G96
2011 WK_{182}	*2011 11 23.44738	04 53 45.42	+23 15 59.5	2011 WK_{19}	20.1	V	G96
2011 WK_{182}	2011 11 23.45378	04 53 44.98	+23 16 00.1	2011 WK_{19}	20.5	V	G96
2011 WK_{182}	2011 11 23.46024	04 53 44.55	+23 16 00.6	2011 WK_{19}	20.1	V	G96
2011 WK_{182}	2011 11 23.46681	04 53 44.12	+23 16 01.4	2011 WK_{19}	20.7	V	G96
2011 WL_{182}	*2011 11 23.41293	04 29 52.36	+22 00 55.4	2011 WU_{21}	20.9	V	G96
2011 WL_{182}	2011 11 23.41814	04 29 52.00	+22 00 55.3	2011 WU_{21}	21.1	V	G96
2011 WL_{182}	2011 11 23.42335	04 29 51.75	+22 00 54.2	2011 WU_{21}	20.5	V	G96
2011 WL_{182}	2011 11 23.42855	04 29 51.46	+22 00 53.2	2011 WU_{21}	21.2	V	G96
2011 WM_{182}	*2011 11 23.41349	04 26 41.74	+20 57 55.8	2011 WB_{23}	20.7	V	G96
2011 WM_{182}	2011 11 23.41872	04 26 41.35	+20 57 54.8	2011 WB_{23}	21.9	V	G96
2011 WM_{182}	2011 11 23.42392	04 26 41.02	+20 57 54.1	2011 WB_{23}	21.2	V	G96
2011 WM_{182}	2011 11 23.42914	04 26 40.70	+20 57 52.4	2011 WB_{23}	21.0	V	G96
2011 WM_{182}	2011 11 27.17823	04 22 51.79	+20 43 30.7	2011 WB_{23}	21.6	V	691
2011 WM_{182}	2011 11 27.19602	04 22 50.67	+20 43 27.2	2011 WB_{23}	21.4	V	691
2011 WM_{182}	2011 11 27.21380	04 22 49.52	+20 43 23.3	2011 WB_{23}	21.5	V	691
2011 WM_{182}	2011 11 30.30409	04 19 39.28	+20 31 26.8	2011 WB_{23}	20.4	V	G96
2011 WM_{182}	2011 11 30.31154	04 19 38.74	+20 31 25.0	2011 WB_{23}	20.7	V	G96
2011 WM_{182}	2011 11 30.31907	04 19 38.28	+20 31 23.2	2011 WB_{23}	20.9	V	G96
2011 WM_{182}	2011 11 30.32667	04 19 37.77	+20 31 21.3	2011 WB_{23}	21.2	V	G96
2011 WN_{182}	*2011 11 23.33006	03 27 50.29	+22 48 30.1	2011 WU_{27}	20.8	V	G96
2011 WN_{182}	2011 11 23.33523	03 27 50.04	+22 48 28.6	2011 WU_{27}	20.9	V	G96
2011 WN_{182}	2011 11 23.34045	03 27 49.68	+22 48 27.4	2011 WU_{27}	20.8	V	G96
2011 WN_{182}	2011 11 23.34568	03 27 49.42	+22 48 27.1	2011 WU_{27}	20.2	V	G96
2011 WO_{182}	*2011 11 23.33064	03 27 22.75	+24 30 17.0	2011 WD_{28}	21.5	V	G96
2011 WO_{182}	2011 11 23.33579	03 27 22.50	+24 30 14.4	2011 WD_{28}	21.8	V	G96
2011 WO_{182}	2011 11 23.34103	03 27 22.17	+24 30 13.7	2011 WD_{28}	21.8	V	G96
2011 WO_{182}	2011 11 23.34626	03 27 21.85	+24 30 12.1	2011 WD_{28}	21.3	V	G96
2011 WP_{182}	*2011 11 27.17062	04 25 46.28	+21 19 06.0	2011 WF_{51}	21.1	V	691
2011 WP_{182}	2011 11 27.18842	04 25 45.15	+21 19 06.5	2011 WF_{51}	20.6	V	691
2011 WP_{182}	2011 11 27.20620	04 25 44.02	+21 19 07.6	2011 WF_{51}	20.7	V	691
2011 WQ_{182}	*2011 11 30.20896	03 08 51.57	+22 42 50.1	2011 WY_{75}	20.8	V	G96
2011 WQ_{182}	2011 11 30.21536	03 08 51.28	+22 42 47.9	2011 WY_{75}	21.5	V	G96
2011 WQ_{182}	2011 11 30.22187	03 08 50.96	+22 42 45.1	2011 WY_{75}	21.5	V	G96
2011 WQ_{182}	2011 11 30.22817	03 08 50.67	+22 42 42.9	2011 WY_{75}	21.9	V	G96
2011 WR_{182}	*2011 11 30.23855	03 33 12.49	+22 25 47.3	2011 WQ_{77}	21.2	V	G96
2011 WR_{182}	2011 11 30.24552	03 33 12.06	+22 25 45.8	2011 WQ_{77}	21.0	V	G96
2011 WR_{182}	2011 11 30.25236	03 33 11.62	+22 25 44.2	2011 WQ_{77}	20.6	V	G96
2011 WR_{182}	2011 11 30.25928	03 33 11.19	+22 25 42.3	2011 WQ_{77}	21.0	V	G96
2011 WS_{182}	*2011 11 30.31095	03 52 57.18	+18 58 01.3	2011 WM_{80}	21.1	V	G96
2011 WS_{182}	2011 11 30.31848	03 52 56.74	+18 58 00.9	2011 WM_{80}	20.9	V	G96
2011 WS_{182}	2011 11 30.32608	03 52 56.31	+18 58 00.1	2011 WM_{80}	20.6	V	G96
2011 WS_{182}	2011 11 30.33356	03 52 55.92	+18 57 59.6	2011 WM_{80}	20.8	V	G96
2011 WT_{182}	*2011 11 30.30866	04 01 36.30	+19 23 10.3	2011 WQ_{81}	21.1	V	G96
2011 WT_{182}	2011 11 30.30983	04 01 36.26	+19 23 11.5	2011 WQ_{81}	20.9	V	G96
2011 WT_{182}	2011 11 30.31612	04 01 35.79	+19 23 10.8	2011 WQ_{81}	20.7	V	G96
2011 WT_{182}	2011 11 30.31729	04 01 35.76	+19 23 10.1	2011 WQ_{81}	21.9	V	G96
2011 WT_{182}	2011 11 30.32376	04 01 35.25	+19 23 10.2	2011 WQ_{81}	20.9	V	G96
2011 WT_{182}	2011 11 30.32492	04 01 35.22	+19 23 10.1	2011 WQ_{81}	21.3	V	G96
2011 WT_{182}	2011 11 30.33128	04 01 34.75	+19 23 09.4	2011 WQ_{81}	21.2	V	G96
2011 WT_{182}	2011 11 30.33243	04 01 34.71	+19 23 09.2	2011 WQ_{81}	21.3	V	G96
2011 WU_{182}	*2011 11 30.30750	04 07 23.30	+19 24 36.6	2011 WA_{123}	20.6	V	G96
2011 WU_{182}	2011 11 30.31495	04 07 22.80	+19 24 34.6	2011 WA_{123}	20.8	V	G96
2011 WU_{182}	2011 11 30.32258	04 07 22.26	+19 24 32.5	2011 WA_{123}	20.5	V	G96
2011 WU_{182}	2011 11 30.33012	04 07 21.82	+19 24 30.6	2011 WA_{123}	21.1	V	G96
2011 YF_{96}	*2011 12 30.33212	06 45 49.57	+31 25 21.6	2011 YC_{30}	20.9	V	G96
2011 YF_{96}	2011 12 30.33954	06 45 49.03	+31 25 24.0	2011 YC_{30}	22.1	V	G96
2011 YF_{96}	2011 12 30.34778	06 45 48.31	+31 25 25.7	2011 YC_{30}	21.3	V	G96
2011 YF_{96}	2011 12 30.35528	06 45 47.70	+31 25 27.5	2011 YC_{30}	21.5	V	G96
2011 YG_{96}	*2011 12 28.34964	07 40 17.11	+29 07 25.7	2012 AQ_{15}	20.8	V	G96
2011 YG_{96}	2011 12 28.35828	07 40 16.57	+29 07 29.1	2012 AQ_{15}	20.5	V	G96
2011 YG_{96}	2011 12 28.36692	07 40 16.06	+29 07 31.9	2012 AQ_{15}	20.6	V	G96
2011 YG_{96}	2011 12 28.37560	07 40 15.56	+29 07 35.5	2012 AQ_{15}	21.0	V	G96
2011 YH_{96}	*2011 12 30.42999	09 01 31.70	+15 31 20.5	2012 BZ_{73}	21.2	V	691
2011 YH_{96}	2011 12 30.44773	09 01 31.20	+15 31 21.8	2012 BZ_{73}	21.5	V	691
2011 YH_{96}	2011 12 30.46548	09 01 30.73	+15 31 22.7	2012 BZ_{73}	21.0	V	691
2012 AP_{35}	*2012 01 01.12979	03 24 06.44	+20 48 31.4	2011 UR_{179}	21.2	V	G96
2012 AP_{35}	2012 01 01.13729	03 24 06.40	+20 48 27.7	2011 UR_{179}	20.9	V	G96
2012 AP_{35}	2012 01 01.15243	03 24 06.26	+20 48 21.9	2011 UR_{179}	20.8	V	G96
2012 AQ_{35}	*2012 01 04.43715	08 41 03.73	+14 14 37.5	2012 BG_{146}	20.6	V	G96
2012 AQ_{35}	2012 01 04.44465	08 41 03.44	+14 14 39.7	2012 BG_{146}	20.7	V	G96
2012 AQ_{35}	2012 01 04.45213	08 41 03.15	+14 14 42.0	2012 BG_{146}	20.5	V	G96
2012 BD_{184}	*2012 01 26.30240	08 25 37.95	+22 21 57.3	2012 BU_{40}	21.6	V	G96
2012 BD_{184}	2012 01 26.30760	08 25 37.74	+22 21 58.0	2012 BU_{40}	22.3	V	G96
2012 BD_{184}	2012 01 26.31285	08 25 37.38	+22 21 59.2	2012 BU_{40}	22.1	V	G96
2012 BD_{184}	2012 01 26.31808	08 25 37.12	+22 22 00.8	2012 BU_{40}	21.8	V	G96
2012 BF_{184}	*2012 01 17.91950	04 28 09.70	+26 50 21.8	2011 YC_{2}	21.6	R	B74
2012 BF_{184}	2012 01 17.92700	04 28 09.58	+26 50 21.6	2011 YC_{2}	21.6	R	B74
2012 BF_{184}	2012 01 17.93449	04 28 09.46	+26 50 21.0	2011 YC_{2}	21.7	R	B74
2012 BG_{184}	*2012 01 26.35302	08 26 54.38	+24 03 44.0	2012 BT_{39}	21.7	V	G96
2012 BG_{184}	2012 01 26.35882	08 26 54.02	+24 03 46.1	2012 BT_{39}	21.9	V	G96
2012 BG_{184}	2012 01 26.36462	08 26 53.66	+24 03 48.2	2012 BT_{39}	21.7	V	G96
2012 BG_{184}	2012 01 26.37041	08 26 53.30	+24 03 50.4	2012 BT_{39}	21.4	V	G96
2012 BH_{184}	*2012 01 26.35302	08 26 34.58	+24 05 45.4	2012 BU_{39}	20.6	V	G96
2012 BH_{184}	2012 01 26.35882	08 26 34.22	+24 05 46.7	2012 BU_{39}	20.8	V	G96
2012 BH_{184}	2012 01 26.36462	08 26 33.82	+24 05 48.9	2012 BU_{39}	20.8	V	G96
2012 BH_{184}	2012 01 26.37041	08 26 33.43	+24 05 50.9	2012 BU_{39}	20.6	V	G96

2012 BJ_{184}	*2012 01 26.30240	08 25 46.16	+22 28 15.5	2012 BT_{40}	21.4	V	G96
2012 BJ_{184}	2012 01 26.30760	08 25 45.91	+22 28 17.2	2012 BT_{40}	21.2	V	G96
2012 BJ_{184}	2012 01 26.31285	08 25 45.62	+22 28 18.2	2012 BT_{40}	21.3	V	G96
2012 BJ_{184}	2012 01 26.31808	08 25 45.30	+22 28 18.9	2012 BT_{40}	21.6	V	G96
2012 BK_{184}	*2012 01 26.35360	08 26 12.37	+23 07 04.8	2012 BZ_{40}	21.9	V	G96
2012 BK_{184}	2012 01 26.35940	08 26 12.04	+23 07 06.1	2012 BZ_{40}	20.8	V	G96
2012 BK_{184}	2012 01 26.36520	08 26 11.83	+23 07 07.6	2012 BZ_{40}	21.0	V	G96
2012 BK_{184}	2012 01 26.37098	08 26 11.43	+23 07 08.8	2012 BZ_{40}	22.3	V	G96
2012 BL_{184}	*2012 01 26.30352	08 15 21.45	+21 50 29.4	2012 BW_{45}	22.4	V	G96
2012 BL_{184}	2012 01 26.30873	08 15 21.06	+21 50 30.8	2012 BW_{45}	21.4	V	G96
2012 BL_{184}	2012 01 26.31402	08 15 20.73	+21 50 31.9	2012 BW_{45}	21.3	V	G96
2012 BL_{184}	2012 01 26.31925	08 15 20.34	+21 50 33.2	2012 BW_{45}	21.2	V	G96
2012 BL_{184}	2012 01 26.50190	08 15 07.816	+21 51 14.65	2012 BW_{45}	21.3	i	F51
2012 BL_{184}	2012 01 26.52760	08 15 05.965	+21 51 19.88	2012 BW_{45}	21.6	r	F51
2012 BL_{184}	2012 01 26.53988	08 15 05.114	+21 51 22.72	2012 BW_{45}	21.3	r	F51
2012 BM_{184}	*2012 01 26.30352	08 17 04.41	+22 40 53.5	2012 BD_{47}	21.9	V	G96
2012 BM_{184}	2012 01 26.30873	08 17 04.09	+22 40 54.8	2012 BD_{47}	21.5	V	G96
2012 BM_{184}	2012 01 26.31402	08 17 03.84	+22 40 55.5	2012 BD_{47}	22.3	V	G96
2012 BM_{184}	2012 01 26.31925	08 17 03.51	+22 40 56.6	2012 BD_{47}	22.4	V	G96
2012 BN_{184}	*2012 01 26.22633	07 54 54.79	+19 47 28.6	2012 BN_{50}	21.5	V	G96
2012 BN_{184}	2012 01 26.23153	07 54 54.46	+19 47 29.6	2012 BN_{50}	21.0	V	G96
2012 BN_{184}	2012 01 26.23679	07 54 54.18	+19 47 29.4	2012 BN_{50}	21.1	V	G96
2012 BN_{184}	2012 01 26.24204	07 54 53.82	+19 47 30.6	2012 BN_{50}	21.5	V	G96
2012 BN_{184}	2012 01 26.49855	07 54 39.116	+19 47 58.81	2012 BN_{50}	21.1	i	F51
2012 BN_{184}	2012 01 26.52437	07 54 37.619	+19 48 01.38	2012 BN_{50}	21.2	r	F51
2012 BN_{184}	2012 01 26.53666	07 54 36.909	+19 48 02.78	2012 BN_{50}	21.0	r	F51
2012 BO_{184}	*2012 01 27.19097	08 04 13.69	+17 46 01.6	2012 BM_{62}	20.9	V	G96
2012 BO_{184}	2012 01 27.19622	08 04 13.36	+17 46 02.6	2012 BM_{62}	21.6	V	G96
2012 BO_{184}	2012 01 27.20137	08 04 13.11	+17 46 03.8	2012 BM_{62}	22.1	V	G96
2012 BO_{184}	2012 01 27.20663	08 04 12.82	+17 46 04.6	2012 BM_{62}	21.6	V	G96
2012 BP_{184}	*2012 01 27.21219	08 10 34.32	+16 00 44.5	2012 BX_{65}	22.6	V	G96
2012 BP_{184}	2012 01 27.21797	08 10 33.96	+16 00 46.6	2012 BX_{65}	21.8	V	G96
2012 BP_{184}	2012 01 27.22381	08 10 33.70	+16 00 48.0	2012 BX_{65}	21.1	V	G96
2012 BP_{184}	2012 01 27.22966	08 10 33.34	+16 00 49.7	2012 BX_{65}	21.9	V	G96
2012 BQ_{184}	*2012 01 27.28334	08 52 47.38	+13 19 03.0	2012 BS_{71}	20.4	V	G96
2012 BQ_{184}	2012 01 27.29067	08 52 46.88	+13 19 01.8	2012 BS_{71}	20.3	V	G96
2012 BQ_{184}	2012 01 27.29799	08 52 46.38	+13 19 00.4	2012 BS_{71}	20.3	V	G96
2012 BQ_{184}	2012 01 27.30536	08 52 45.87	+13 18 59.2	2012 BS_{71}	20.3	V	G96
2012 BQ_{184}	2012 01 27.44089	08 52 36.48	+13 18 35.5	2012 BS_{71}	20.4	V	G96
2012 BQ_{184}	2012 01 27.44230	08 52 36.37	+13 18 35.3	2012 BS_{71}	20.5	V	G96
2012 BQ_{184}	2012 01 27.44372	08 52 36.26	+13 18 34.8	2012 BS_{71}	20.4	V	G96
2012 BQ_{184}	2012 01 27.44510	08 52 36.15	+13 18 34.8	2012 BS_{71}	20.1	V	G96
2012 CY_{70}	*2012 02 11.27678	08 47 35.05	+17 09 01.2	2012 BO_{114}	21.4	V	G96
2012 CY_{70}	2012 02 11.28657	08 47 34.54	+17 09 03.8	2012 BO_{114}	21.1	V	G96
2012 CY_{70}	2012 02 11.29642	08 47 34.08	+17 09 06.6	2012 BO_{114}	21.4	V	G96
2012 CY_{70}	2012 02 11.30624	08 47 33.54	+17 09 10.4	2012 BO_{114}	21.4	V	G96
2012 CZ_{70}	*2012 02 01.38615	08 53 47.43	+15 10 46.7	2012 BN_{115}	21.0	V	G96
2012 CZ_{70}	2012 02 01.40619	08 53 46.46	+15 10 52.5	2012 BN_{115}	20.8	V	G96
2012 CZ_{70}	2012 02 01.41602	08 53 46.03	+15 10 55.4	2012 BN_{115}	20.7	V	G96
2012 CA_{71}	*2012 02 01.38476	08 54 49.68	+16 44 22.6	2012 BL_{116}	21.0	V	G96
2012 CA_{71}	2012 02 01.39506	08 54 49.03	+16 44 23.9	2012 BL_{116}	21.1	V	G96
2012 CA_{71}	2012 02 01.40483	08 54 48.45	+16 44 23.7	2012 BL_{116}	20.6	V	G96
2012 CA_{71}	2012 02 01.41462	08 54 47.80	+16 44 24.2	2012 BL_{116}	20.8	V	G96
2012 DQ_{126}	*2012 02 19.26792	09 26 11.97	+26 35 48.2	2012 BW_{142}	21.9	V	G96
2012 DQ_{126}	2012 02 19.27358	09 26 11.65	+26 35 49.5	2012 BW_{142}	21.6	V	G96
2012 DQ_{126}	2012 02 19.27934	09 26 11.32	+26 35 51.2	2012 BW_{142}	21.3	V	G96
2012 DQ_{126}	2012 02 19.28515	09 26 11.07	+26 35 53.8	2012 BW_{142}	21.6	V	G96
2012 DR_{126}	*2012 02 29.40361	11 46 53.44	+01 15 03.2	2012 DJ_{85}	20.5	R	290
2012 DR_{126}	2012 02 29.40809	11 46 53.27	+01 15 04.7	2012 DJ_{85}	19.9	R	290
2012 DR_{126}	2012 02 29.41258	11 46 53.03	+01 15 06.5	2012 DJ_{85}	20.0	R	290
2012 DR_{126}	2012 02 29.41709	11 46 52.80	+01 15 07.9	2012 DJ_{85}	19.7	R	290
2012 DR_{126}	2012 02 29.42164	11 46 52.63	+01 15 09.2	2012 DJ_{85}	20.0	R	290
2012 DS_{126}	*2012 02 21.25111	11 10 27.18	+00 01 29.3	2012 FG_{6}	22.0	V	691
2012 DS_{126}	2012 02 21.26684	11 10 26.47	+00 01 33.8	2012 FG_{6}	21.4	V	691
2012 DS_{126}	2012 02 21.28260	11 10 25.77	+00 01 39.7	2012 FG_{6}	21.9	V	691
2012 EQ_{30}	*2012 03 02.23869	09 42 43.74	+11 37 44.0	2012 DR_{68}	20.9	V	G96
2012 EQ_{30}	2012 03 02.24388	09 42 43.52	+11 37 45.8	2012 DR_{68}	21.6	V	G96
2012 EQ_{30}	2012 03 02.24912	09 42 43.30	+11 37 48.0	2012 DR_{68}	20.8	V	G96
2012 EQ_{30}	2012 03 02.25440	09 42 43.12	+11 37 50.1	2012 DR_{68}	20.9	V	G96
2012 ER_{30}	*2012 03 02.19892	09 29 00.13	+13 19 24.8	2012 DD_{69}	20.8	V	G96
2012 ER_{30}	2012 03 02.20410	09 28 59.91	+13 19 26.0	2012 DD_{69}	20.3	V	G96
2012 ER_{30}	2012 03 02.20928	09 28 59.77	+13 19 26.7	2012 DD_{69}	20.6	V	G96
2012 ER_{30}	2012 03 02.21447	09 28 59.55	+13 19 28.4	2012 DD_{69}	20.6	V	G96
2012 FV_{109}	*2012 03 21.30961	12 05 47.68	+02 02 19.7	2012 EJ_{11}	20.5	V	G96
2012 FV_{109}	2012 03 21.31539	12 05 47.32	+02 02 20.8	2012 EJ_{11}	20.5	V	G96
2012 FV_{109}	2012 03 21.32118	12 05 46.96	+02 02 21.6	2012 EJ_{11}	20.6	V	G96
2012 FV_{109}	2012 03 21.32700	12 05 46.57	+02 02 22.4	2012 EJ_{11}	20.5	V	G96
2012 FW_{109}	*2012 03 23.24409	11 47 20.90	+04 51 45.1	2012 FS_{15}	21.1	V	G96
2012 FW_{109}	2012 03 23.25098	11 47 20.54	+04 51 47.8	2012 FS_{15}	21.1	V	G96
2012 FW_{109}	2012 03 23.25797	11 47 20.18	+04 51 50.6	2012 FS_{15}	21.1	V	G96
2012 FW_{109}	2012 03 23.26497	11 47 19.86	+04 51 53.8	2012 FS_{15}	20.9	V	G96
2012 FX_{109}	*2012 03 23.24409	11 47 03.98	+04 47 43.7	2012 FY_{15}	20.8	V	G96
2012 FX_{109}	2012 03 23.25098	11 47 03.58	+04 47 46.4	2012 FY_{15}	20.9	V	G96
2012 FX_{109}	2012 03 23.25797	11 47 03.15	+04 47 47.9	2012 FY_{15}	20.5	V	G96
2012 FX_{109}	2012 03 23.26497	11 47 02.72	+04 47 50.6	2012 FY_{15}	21.0	V	G96
2012 FY_{109}	*2012 03 23.24580	11 46 58.80	+04 40 55.2	2012 FA_{16}	22.0	V	G96
2012 FY_{109}	2012 03 23.25273	11 46 58.44	+04 40 57.1	2012 FA_{16}	22.3	V	G96
2012 FY_{109}	2012 03 23.25971	11 46 58.04	+04 40 58.6	2012 FA_{16}	22.2	V	G96
2012 FY_{109}	2012 03 23.26674	11 46 57.61	+04 41 00.7	2012 FA_{16}	21.7	V	G96
2012 FZ_{109}	*2012 03 23.24525	11 45 10.26	+04 04 32.9	2012 FQ_{17}	22.2	V	G96
2012 FZ_{109}	2012 03 23.25214	11 45 09.93	+04 04 36.4	2012 FQ_{17}	22.3	V	G96
2012 FZ_{109}	2012 03 23.25911	11 45 09.61	+04 04 39.6	2012 FQ_{17}	22.0	V	G96
2012 FZ_{109}	2012 03 23.26613	11 45 09.32	+04 04 42.9	2012 FQ_{17}	22.2	V	G96
2012 FA_{110}	*2012 03 23.24142	11 54 27.28	+05 26 20.5	2012 FW_{19}	21.5	V	G96
2012 FA_{110}	2012 03 23.24868	11 54 26.89	+05 26 22.3	2012 FW_{19}	21.9	V	G96
2012 FA_{110}	2012 03 23.25566	11 54 26.56	+05 26 23.6	2012 FW_{19}	20.8	V	G96
2012 FA_{110}	2012 03 23.26263	11 54 26.17	+05 26 25.5	2012 FW_{19}	21.1	V	G96
2012 FB_{110}	*2012 03 23.24083	11 58 27.51	+04 52 23.7	2012 FE_{21}	21.2	V	G96
2012 FB_{110}	2012 03 23.24809	11 58 27.15	+04 52 26.1	2012 FE_{21}	21.6	V	G96
2012 FB_{110}	2012 03 23.25507	11 58 26.83	+04 52 28.4	2012 FE_{21}	21.9	V	G96
2012 FB_{110}	2012 03 23.26204	11 58 26.43	+04 52 30.5	2012 FE_{21}	21.3	V	G96
2012 FC_{110}	*2012 03 23.24083	11 58 16.03	+04 58 00.8	2012 FG_{21}	20.8	V	G96
2012 FC_{110}	2012 03 23.24809	11 58 15.67	+04 58 03.1	2012 FG_{21}	20.8	V	G96
2012 FC_{110}	2012 03 23.25507	11 58 15.31	+04 58 05.9	2012 FG_{21}	20.6	V	G96
2012 FC_{110}	2012 03 23.26204	11 58 14.98	+04 58 07.7	2012 FG_{21}	20.8	V	G96
2012 FD_{110}	*2012 03 24.35191	12 02 58.63	+05 30 11.5	2012 FW_{24}	21.0	V	G96

2012 FD_{110}	2012 03 24.35953	12 02 58.27	+05 30 14.3	2012 FW_{24}	21.7	V	G96
2012 FD_{110}	2012 03 24.36765	12 02 57.94	+05 30 17.5	2012 FW_{24}	21.3	V	G96
2012 FD_{110}	2012 03 24.37522	12 02 57.66	+05 30 20.3	2012 FW_{24}	22.0	V	G96
2012 FE_{110}	*2012 03 24.41322	13 46 29.31	+04 50 06.2	2012 FD_{25}	20.2	V	703
2012 FE_{110}	2012 03 24.42203	13 46 28.88	+04 50 08.9	2012 FD_{25}	21.0	V	703
2012 FE_{110}	2012 03 24.43100	13 46 28.56	+04 50 12.0	2012 FD_{25}	20.2	V	703
2012 FE_{110}	2012 03 24.43990	13 46 28.20	+04 50 15.9	2012 FD_{25}	21.0	V	703
2012 FF_{110}	*2012 03 21.31480	12 07 55.23	+02 03 40.9	2012 FQ_{76}	20.1	V	G96
2012 FF_{110}	2012 03 21.32063	12 07 54.94	+02 03 44.3	2012 FQ_{76}	20.1	V	G96
2012 FF_{110}	2012 03 21.32642	12 07 54.55	+02 03 49.0	2012 FQ_{76}	20.1	V	G96
2012 FG_{110}	*2012 03 28.26315	13 35 11.13	−06 27 08.0	2012 GT_{18}	21.4	V	691
2012 FG_{110}	2012 03 28.28088	13 35 10.38	−06 27 03.6	2012 GT_{18}	21.3	V	691
2012 FG_{110}	2012 03 28.29858	13 35 09.60	−06 26 59.9	2012 GT_{18}	21.9	V	691
2012 HZ_{108}	*2012 04 16.39363	13 08 06.990	−11 23 19.65	2015 FD_{394}	20.5	w	F51
2012 HZ_{108}	2012 04 16.40683	13 08 06.189	−11 23 16.20	2015 FD_{394}	20.4	w	F51
2012 HZ_{108}	2012 04 16.42004	13 08 05.388	−11 23 12.72	2015 FD_{394}	20.6	w	F51
2012 HA_{109}	*2012 04 20.19777	11 30 08.17	+05 04 28.8	2012 FM_{16}	21.0	V	G96
2012 HA_{109}	2012 04 20.20476	11 30 08.06	+05 04 29.7	2012 FM_{16}	21.8	V	G96
2012 HA_{109}	2012 04 20.21175	11 30 07.95	+05 04 28.8	2012 FM_{16}	21.6	V	G96
2012 HA_{109}	2012 04 20.21874	11 30 07.70	+05 04 28.8	2012 FM_{16}	21.6	V	G96
2012 HB_{109}	*2012 04 19.34376	14 49 36.62	+20 03 00.9	2012 FJ_{81}	21.3	V	703
2012 HB_{109}	2012 04 19.34881	14 49 36.33	+20 03 00.8	2012 FJ_{81}	19.7	V	703
2012 HB_{109}	2012 04 19.35389	14 49 36.12	+20 03 02.9	2012 FJ_{81}	19.9	V	703
2012 HB_{109}	2012 04 19.35899	14 49 36.01	+20 03 04.5	2012 FJ_{81}	20.9	V	703
2012 HC_{109}	*2012 04 25.21131	15 50 15.56	−02 13 40.3	2012 HH_{58}	19.9	R	290
2012 HC_{109}	2012 04 25.21509	15 50 15.46	−02 13 38.8	2012 HH_{58}	19.8	R	290
2012 HC_{109}	2012 04 25.21889	15 50 15.26	−02 13 38.2	2012 HH_{58}	20.1	R	290
2012 HC_{109}	2012 04 25.22269	15 50 15.10	−02 13 36.9	2012 HH_{58}	19.9	R	290
2012 HC_{109}	2012 04 25.22648	15 50 14.99	−02 13 36.0	2012 HH_{58}	20.0	R	290
2012 HD_{109}	*2012 04 24.49576	15 22 22.195	−03 52 53.56	2012 KV_5	21.2	g	F51
2012 HD_{109}	2012 04 24.51747	15 22 21.086	−03 52 46.22	2012 KV_5	20.8	r	F51
2012 HD_{109}	2012 04 24.52720	15 22 20.607	−03 52 43.28	2012 KV_5	20.9	r	F51
2012 JJ_{72}	*2012 05 14.31596	15 19 17.25	−07 34 30.4	2012 HC_{18}	21.2	V	G96
2012 JJ_{72}	2012 05 14.32178	15 19 16.86	−07 34 29.6	2012 HC_{18}	21.8	V	G96
2012 JJ_{72}	2012 05 14.32758	15 19 16.60	−07 34 28.4	2012 HC_{18}	21.1	V	G96
2012 JJ_{72}	2012 05 14.33341	15 19 16.24	−07 34 27.9	2012 HC_{18}	21.0	V	G96
2012 JK_{72}	*2012 05 01.37123	15 10 16.17	−08 49 37.2	2012 HL_{68}	20.1	V	G96
2012 JK_{72}	2012 05 01.37707	15 10 15.96	−08 49 34.8	2012 HL_{68}	20.1	V	G96
2012 JK_{72}	2012 05 01.38290	15 10 15.63	−08 49 31.6	2012 HL_{68}	20.0	V	G96
2012 JL_{72}	*2012 05 14.29272	15 00 14.97	−15 51 01.2	2012 JB_{23}	21.5	V	G96
2012 JL_{72}	2012 05 14.29856	15 00 14.61	−15 51 00.0	2012 JB_{23}	20.7	V	G96
2012 JL_{72}	2012 05 14.30447	15 00 14.32	−15 50 59.2	2012 JB_{23}	20.8	V	G96
2012 JL_{72}	2012 05 14.31034	15 00 13.96	−15 50 57.5	2012 JB_{23}	20.0	V	G96
2012 KT_{63}	*2012 05 21.35853	14 49 38.468	−11 14 13.14	2012 KF_{20}	21.2	w	F51
2012 KT_{63}	2012 05 21.37306	14 49 37.634	−11 14 12.80	2012 KF_{20}	21.3	w	F51
2012 KT_{63}	2012 05 21.38758	14 49 36.813	−11 14 12.03	2012 KF_{20}	21.4	w	F51
2012 KT_{63}	2012 05 21.40211	14 49 35.991	−11 14 11.61	2012 KF_{20}	21.3	w	F51
2012 LK_{32}	*2012 06 11.27479	15 58 24.45	−18 38 47.1	2012 JQ_{25}	19.8	V	G96
2012 LK_{32}	2012 06 11.28115	15 58 24.16	−18 38 47.5	2012 JQ_{25}	19.9	V	G96
2012 LK_{32}	2012 06 11.28747	15 58 23.88	−18 38 47.9	2012 JQ_{25}	19.7	V	G96
2012 LK_{32}	2012 06 18.23606	15 54 03.13	−18 45 01.6	2012 JQ_{25}	20.4	V	G96
2012 LK_{32}	2012 06 18.24072	15 54 02.98	−18 45 02.4	2012 JQ_{25}	20.5	V	G96
2012 LK_{32}	2012 06 18.24537	15 54 02.80	−18 45 02.1	2012 JQ_{25}	20.5	V	G96
2012 LK_{32}	2012 06 18.25004	15 54 02.66	−18 45 02.7	2012 JQ_{25}	20.3	V	G96
2012 MB_{19}	*2012 06 16.22840	15 30 10.54	−12 35 44.8	2012 JD_{14}	21.3	V	G96
2012 MB_{19}	2012 06 16.23549	15 30 10.26	−12 35 47.2	2012 JD_{14}	21.5	V	G96
2012 MB_{19}	2012 06 16.24256	15 30 10.00	−12 35 48.4	2012 JD_{14}	21.3	V	G96
2012 MB_{19}	2012 06 16.24966	15 30 09.72	−12 35 49.8	2012 JD_{14}	21.1	V	G96
2012 QQ_{71}	*2012 08 16.04737	21 50 26.10	−13 02 03.3	2012 PS_{22}	18.0	R	J04
2012 QQ_{71}	2012 08 16.06965	21 50 06.54	−13 18 20.9	2012 PS_{22}			J04
2012 QQ_{71}	2012 08 16.09197	21 49 45.91	−13 35 30.1	2012 PS_{22}			J04
2012 QR_{71}	*2012 08 16.40885	22 05 27.904	−04 55 41.04	2012 PT_{23}	20.2	r	F51
2012 QR_{71}	2012 08 16.41886	22 05 27.394	−04 55 45.10	2012 PT_{23}	20.0	r	F51
2012 QR_{71}	2012 08 16.42921	22 05 26.863	−04 55 49.04	2012 PT_{23}	20.6	g	F51
2012 QR_{71}	2012 08 16.43957	22 05 26.329	−04 55 53.46	2012 PT_{23}	20.3	g	F51
2012 QR_{71}	2012 08 26.22147	21 57 27.10	−06 06 01.6	2012 PT_{23}	20.3	V	G96
2012 QR_{71}	2012 08 26.23078	21 57 26.64	−06 06 05.1	2012 PT_{23}	20.2	V	G96
2012 QR_{71}	2012 08 26.24012	21 57 26.13	−06 06 09.5	2012 PT_{23}	20.1	V	G96
2012 QR_{71}	2012 08 26.24942	21 57 25.66	−06 06 13.9	2012 PT_{23}	20.3	V	G96
2012 SF_{95}	*2012 09 16.37722	23 31 01.12	−06 37 47.4	2012 QV_{20}	20.8	V	G96
2012 SF_{95}	2012 09 16.38177	23 31 01.02	−06 37 49.6	2012 QV_{20}	20.8	V	G96
2012 SF_{95}	2012 09 16.38640	23 31 00.80	−06 37 53.4	2012 QV_{20}	20.9	V	G96
2012 SF_{95}	2012 09 16.39102	23 31 00.62	−06 37 55.8	2012 QV_{20}	21.6	V	G96
2012 SG_{95}	*2012 09 26.17567	23 40 14.73	+02 20 08.5	2012 QM_{25}	20.3	V	G96
2012 SG_{95}	2012 09 26.18079	23 40 14.52	+02 20 08.1	2012 QM_{25}	20.3	V	G96
2012 SG_{95}	2012 09 26.18590	23 40 14.26	+02 20 06.8	2012 QM_{25}	19.8	V	G96
2012 SG_{95}	2012 09 26.19103	23 40 14.01	+02 20 06.0	2012 QM_{25}	19.9	V	G96
2012 SH_{95}	*2012 09 19.26262	23 47 29.00	+04 35 44.1	2012 QR_{33}	22.4	V	G96
2012 SH_{95}	2012 09 19.27074	23 47 28.64	+04 35 41.1	2012 QR_{33}	22.4	V	G96
2012 SH_{95}	2012 09 19.27896	23 47 28.21	+04 35 36.8	2012 QR_{33}	21.7	V	G96
2012 SH_{95}	2012 09 19.28710	23 47 27.74	+04 35 32.7	2012 QR_{33}	22.4	V	G96
2012 SJ_{95}	*2012 09 24.19250	23 55 24.67	+05 30 16.7	2012 SH_8	19.9	V	G96
2012 SJ_{95}	2012 09 24.19821	23 55 24.38	+05 30 15.5	2012 SH_8	20.1	V	G96
2012 SJ_{95}	2012 09 24.20389	23 55 24.06	+05 30 13.8	2012 SH_8	20.6	V	G96
2012 SJ_{95}	2012 09 24.20962	23 55 23.73	+05 30 12.3	2012 SH_8	20.6	V	G96
2012 SK_{95}	*2012 09 21.36597	00 46 18.91	+06 27 01.8	2012 SD_{17}	21.3	V	G96
2012 SK_{95}	2012 09 21.37264	00 46 18.62	+06 26 59.4	2012 SD_{17}	20.8	V	G96
2012 SK_{95}	2012 09 21.37939	00 46 18.33	+06 26 57.7	2012 SD_{17}	21.4	V	G96
2012 SK_{95}	2012 09 21.38611	00 46 18.01	+06 26 56.2	2012 SD_{17}	21.2	V	G96
2012 SL_{95}	*2012 09 21.36597	00 45 59.43	+06 28 55.8	2012 SF_{17}	21.5	V	G96
2012 SL_{95}	2012 09 21.37264	00 45 59.11	+06 28 54.3	2012 SF_{17}	21.8	V	G96
2012 SL_{95}	2012 09 21.37939	00 45 58.71	+06 28 53.0	2012 SF_{17}	21.7	V	G96
2012 SL_{95}	2012 09 21.38611	00 45 58.35	+06 28 51.6	2012 SF_{17}	21.7	V	G96
2012 SL_{95}	2012 09 21.43530	00 46 01.99	+06 27 52.7	2012 SF_{17}	20.7	V	G96
2012 SL_{95}	2012 09 21.43645	00 46 01.95	+06 27 52.2	2012 SF_{17}	20.6	V	G96
2012 SL_{95}	2012 09 21.43758	00 46 01.84	+06 27 51.8	2012 SF_{17}	20.8	V	G96
2012 SL_{95}	2012 09 21.44194	00 46 01.70	+06 27 50.7	2012 SF_{17}	20.7	V	G96
2012 SM_{95}	*2012 09 19.21250	22 37 02.22	+19 04 08.6	2012 SL_{21}	19.1	R	926
2012 SM_{95}	2012 09 19.22425	22 37 01.69	+19 04 04.6	2012 SL_{21}	19.2	R	926
2012 SM_{95}	2012 09 19.23615	22 37 01.13	+19 04 02.7	2012 SL_{21}	19.2	R	926
2012 SN_{95}	*2012 09 26.19482	23 39 56.59	+05 12 16.9	2012 SK_{52}	20.4	V	G96
2012 SN_{95}	2012 09 26.19991	23 39 56.34	+05 12 15.0	2012 SK_{52}	20.3	V	G96
2012 SN_{95}	2012 09 26.20498	23 39 56.12	+05 12 13.4	2012 SK_{52}	20.3	V	G96
2012 SN_{95}	2012 09 26.21008	23 39 55.87	+05 12 11.8	2012 SK_{52}	20.2	V	G96
2012 SO_{95}	*2012 09 26.19256	23 43 46.56	+03 24 09.3	2012 SE_{53}	19.9	V	G96
2012 SO_{95}	2012 09 26.19764	23 43 46.38	+03 24 07.3	2012 SE_{53}	20.4	V	G96

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2012 VN_{136}	*2012 11 08.18385	02 29 44.50	−10 16 08.6	2012 VO_{34}	18.8	V	I16
2012 VN_{136}	2012 11 08.19205	02 29 44.13	−10 16 05.0	2012 VO_{34}	18.9	V	I16
2012 VN_{136}	2012 11 10.04911	02 28 17.91	−10 03 05.3	2012 VO_{34}	19.5	V	I16
2012 VN_{136}	2012 11 10.05316	02 28 17.70	−10 03 03.3	2012 VO_{34}	19.3	V	I16
2012 VN_{136}	2012 11 10.05722	02 28 17.51	−10 03 01.6	2012 VO_{34}	19.7	V	I16
2012 VN_{136}	2012 11 10.06127	02 28 17.32	−10 02 59.9	2012 VO_{34}	19.4	V	I16
2012 VN_{136}	2012 11 10.471869	02 27 58.50	−09 59 55.8	2012 VO_{34}	19.2	R	D90
2012 VN_{136}	2012 11 10.478443	02 27 58.19	−09 59 52.8	2012 VO_{34}	19.0	R	D90
2012 VN_{136}	2012 11 10.484991	02 27 57.87	−09 59 49.8	2012 VO_{34}	19.2	R	D90
2012 VN_{136}	2012 11 10.491560	02 27 57.55	−09 59 47.0	2012 VO_{34}	19.1	R	D90
2012 VO_{136}	*2012 11 05.14186	00 20 22.51	+02 24 32.4	2012 SV_{12}	20.4	V	H06
2012 VO_{136}	2012 11 05.14494	00 20 22.43	+02 24 32.0	2012 SV_{12}	21.0	V	H06
2012 VP_{136}	*2012 11 04.255313	00 19 16.973	+11 17 04.97	2012 TS_{65}	21.8	w	F51
2012 VP_{136}	2012 11 04.269426	00 19 16.652	+11 17 02.25	2012 TS_{65}	22.2	w	F51
2012 VP_{136}	2012 11 04.283577	00 19 16.291	+11 16 59.38	2012 TS_{65}	22.2	w	F51
2012 VQ_{136}	*2012 11 04.252011	00 47 39.326	+05 21 04.80	2012 TH_{224}	21.5	w	F51
2012 VQ_{136}	2012 11 04.266116	00 47 38.720	+05 21 04.94	2012 TH_{224}	21.4	w	F51
2012 VQ_{136}	2012 11 04.280200	00 47 38.126	+05 21 05.10	2012 TH_{224}	21.4	w	F51
2012 VQ_{136}	2012 11 04.294398	00 47 37.520	+05 21 05.37	2012 TH_{224}	21.3	w	F51
2012 VR_{136}	*2012 11 05.294391	00 46 49.379	−04 46 47.96	2012 TT_{234}	21.4	w	F51
2012 VR_{136}	2012 11 05.309477	00 46 48.878	−04 46 46.51	2012 TT_{234}	21.3	w	F51
2012 VR_{136}	2012 11 05.339680	00 46 47.932	−04 46 44.06	2012 TT_{234}	21.7	w	F51
2012 VS_{136}	*2012 11 05.290740	01 11 09.183	+01 13 58.49	2012 UC_{12}	21.4	w	F51
2012 VS_{136}	2012 11 05.305875	01 11 08.635	+01 13 54.42	2012 UC_{12}	21.3	w	F51
2012 VS_{136}	2012 11 05.320958	01 11 08.065	+01 13 50.21	2012 UC_{12}	21.4	w	F51
2012 VS_{136}	2012 11 05.336087	01 11 07.513	+01 13 46.28	2012 UC_{12}	21.4	w	F51
2012 VT_{136}	*2012 11 05.290740	01 17 25.497	+00 10 54.63	2012 UT_{13}	20.8	w	F51
2012 VT_{136}	2012 11 05.305875	01 17 24.878	+00 10 53.24	2012 UT_{13}	20.7	w	F51
2012 VT_{136}	2012 11 05.320958	01 17 24.256	+00 10 51.92	2012 UT_{13}	21.0	w	F51
2012 VT_{136}	2012 11 05.336087	01 17 23.628	+00 10 50.71	2012 UT_{13}	20.8	w	F51
2012 VU_{136}	*2012 11 07.380886	03 26 37.229	+10 40 18.54	2012 UE_{64}	20.7	w	F51
2012 VU_{136}	2012 11 07.396057	03 26 36.396	+10 40 18.53	2012 UE_{64}	20.7	w	F51
2012 VU_{136}	2012 11 07.411208	03 26 35.581	+10 40 18.30	2012 UE_{64}	20.7	w	F51
2012 VV_{136}	*2012 11 12.28550	02 55 16.71	+12 21 34.7	2012 US_{110}	20.3	V	G96
2012 VV_{136}	2012 11 12.29123	02 55 16.50	+12 21 33.4	2012 US_{110}	20.2	V	G96
2012 VV_{136}	2012 11 12.29701	02 55 16.17	+12 21 32.0	2012 US_{110}	20.5	V	G96
2012 VV_{136}	2012 11 12.30294	02 55 15.81	+12 21 31.6	2012 US_{110}	20.3	V	G96
2012 VV_{136}	2012 11 12.30880	02 55 15.49	+12 21 30.0	2012 US_{110}	20.4	V	G96
2012 VW_{136}	*2012 11 06.289359	01 55 45.784	+08 33 08.49	2012 VR_{47}	21.5	w	F51
2012 VW_{136}	2012 11 06.304246	01 55 45.059	+08 33 03.89	2012 VR_{47}	21.5	w	F51
2012 VW_{136}	2012 11 06.319227	01 55 44.310	+08 33 00.04	2012 VR_{47}	21.6	w	F51
2012 VW_{136}	2012 11 13.24222	01 50 34.15	+08 03 04.0	2012 VR_{47}	21.9	V	G96
2012 VW_{136}	2012 11 13.24809	01 50 33.82	+08 03 02.9	2012 VR_{47}	22.1	V	G96
2012 VW_{136}	2012 11 13.25392	01 50 33.57	+08 03 00.9	2012 VR_{47}	21.8	V	G96
2012 VW_{136}	2012 11 13.25978	01 50 33.39	+08 02 59.2	2012 VR_{47}	21.3	V	G96
2012 VX_{136}	*2012 11 13.23881	02 05 13.70	+07 50 02.2	2012 VO_{48}	20.6	V	G96
2012 VX_{136}	2012 11 13.24462	02 05 13.41	+07 50 00.7	2012 VO_{48}	21.4	V	G96
2012 VX_{136}	2012 11 13.25053	02 05 13.09	+07 50 00.3	2012 VO_{48}	21.7	V	G96
2012 VX_{136}	2012 11 13.25635	02 05 12.80	+07 49 59.1	2012 VO_{48}	21.6	V	G96
2012 VY_{136}	*2012 11 13.23881	02 05 26.84	+08 01 02.7	2012 VH_{50}	20.8	V	G96
2012 VY_{136}	2012 11 13.24462	02 05 26.59	+08 01 02.4	2012 VH_{50}	21.1	V	G96
2012 VY_{136}	2012 11 13.25053	02 05 26.34	+08 01 02.0	2012 VH_{50}	21.0	V	G96
2012 VY_{136}	2012 11 13.25635	02 05 26.05	+08 01 01.4	2012 VH_{50}	20.7	V	G96
2012 VZ_{136}	*2012 11 13.34591	03 01 42.56	+17 30 51.0	2012 VK_{53}	20.5	V	G96
2012 VZ_{136}	2012 11 13.35291	03 01 42.16	+17 30 49.5	2012 VK_{53}	20.4	V	G96
2012 VZ_{136}	2012 11 13.35993	03 01 41.77	+17 30 48.4	2012 VK_{53}	20.6	V	G96
2012 VA_{137}	*2012 11 13.34307	03 10 32.48	+16 58 51.2	2012 VV_{54}	21.3	V	G96
2012 VA_{137}	2012 11 13.35005	03 10 32.01	+16 58 50.6	2012 VV_{54}	22.1	V	G96
2012 VA_{137}	2012 11 13.35707	03 10 31.54	+16 58 50.5	2012 VV_{54}	21.3	V	G96
2012 VA_{137}	2012 11 13.36406	03 10 31.08	+16 58 50.3	2012 VV_{54}	22.2	V	G96
2012 VB_{137}	*2012 11 13.34649	03 02 40.48	+16 18 26.5	2012 VW_{54}	20.3	V	G96
2012 VB_{137}	2012 11 13.35348	03 02 40.09	+16 18 23.9	2012 VW_{54}	20.1	V	G96
2012 VB_{137}	2012 11 13.36051	03 02 39.73	+16 18 21.4	2012 VW_{54}	20.6	V	G96
2012 VB_{137}	2012 11 13.36748	03 02 39.33	+16 18 19.0	2012 VW_{54}	20.6	V	G96
2012 VC_{137}	*2012 11 13.34649	03 02 23.60	+16 20 38.2	2012 VD_{55}	20.5	V	G96
2012 VC_{137}	2012 11 13.35348	03 02 23.13	+16 20 37.1	2012 VD_{55}	20.8	V	G96
2012 VC_{137}	2012 11 13.36051	03 02 22.63	+16 20 35.6	2012 VD_{55}	21.4	V	G96
2012 VC_{137}	2012 11 13.36748	03 02 22.20	+16 20 34.2	2012 VD_{55}	21.2	V	G96
2012 VD_{137}	*2012 11 13.34535	03 06 06.58	+15 24 10.6	2012 VS_{55}	20.0	V	G96
2012 VD_{137}	2012 11 13.35233	03 06 06.19	+15 24 07.5	2012 VS_{55}	20.0	V	G96
2012 VD_{137}	2012 11 13.35938	03 06 05.76	+15 24 04.4	2012 VS_{55}	19.8	V	G96
2012 VD_{137}	2012 11 13.36635	03 06 05.36	+15 24 01.5	2012 VS_{55}	19.8	V	G96
2012 VE_{137}	*2012 11 13.34252	03 14 09.49	+17 41 09.0	2012 VR_{57}	21.6	V	G96
2012 VE_{137}	2012 11 13.34947	03 14 09.09	+17 41 06.2	2012 VR_{57}	22.0	V	G96
2012 VE_{137}	2012 11 13.35649	03 14 08.62	+17 41 03.4	2012 VR_{57}	21.2	V	G96
2012 VE_{137}	2012 11 13.36348	03 14 08.23	+17 41 01.2	2012 VR_{57}	21.1	V	G96
2012 VF_{137}	*2012 11 14.87018	02 49 43.15	+03 43 12.0	2012 VT_{78}	20.6	R	C32
2012 VF_{137}	2012 11 14.87490	02 49 42.90	+03 43 10.5	2012 VT_{78}	20.6	R	C32
2012 VF_{137}	2012 11 14.87953	02 49 42.66	+03 43 09.6	2012 VT_{78}	20.7	R	C32
2012 VG_{137}	*2012 11 03.23292	02 19 11.13	+12 26 08.1	2012 VY_{110}	21.0	V	G96
2012 VG_{137}	2012 11 03.23998	02 19 10.70	+12 26 05.8	2012 VY_{110}	20.9	V	G96
2012 VG_{137}	2012 11 03.24712	02 19 10.23	+12 26 03.7	2012 VY_{110}	20.4	V	G96
2012 VG_{137}	2012 11 03.25425	02 19 09.76	+12 26 02.1	2012 VY_{110}	20.7	V	G96
2012 VH_{137}	*2012 11 07.36287	04 54 35.82	+26 54 43.4	2012 XC_3	21.0	V	G96
2012 VH_{137}	2012 11 07.36887	04 54 35.53	+26 54 43.1	2012 XC_3	20.4	V	G96
2012 VH_{137}	2012 11 07.37504	04 54 35.35	+26 54 42.0	2012 XC_3	20.6	V	G96
2012 VH_{137}	2012 11 07.38115	04 54 35.10	+26 54 41.9	2012 XC_3	20.4	V	G96
2012 VJ_{137}	*2012 11 07.43915	04 47 40.59	+15 02 31.0	2012 XN_{54}	20.4	V	G96
2012 VJ_{137}	2012 11 07.44473	04 47 40.34	+15 02 31.3	2012 XN_{54}	20.2	V	G96
2012 VJ_{137}	2012 11 07.45031	04 47 40.16	+15 02 31.9	2012 XN_{54}	20.4	V	G96
2012 VJ_{137}	2012 11 07.45593	04 47 39.91	+15 02 31.5	2012 XN_{54}	20.6	V	G96
2012 VJ_{137}	2012 12 05.98747	04 24 20.49	+15 22 37.1	2012 XN_{54}	20.5		J43
2012 VJ_{137}	2012 12 05.99959	04 24 19.82	+15 22 37.1	2012 XN_{54}	20.0		J43
2012 VJ_{137}	2012 12 06.02391	04 24 18.53	+15 22 40.1	2012 XN_{54}	20.2		J43
2012 VK_{137}	*2012 11 13.39935	05 03 38.26	+17 37 35.8	2013 AP_{16}	21.3	V	G96
2012 VK_{137}	2012 11 13.40559	05 03 37.98	+17 37 36.4	2013 AP_{16}	21.1	V	G96
2012 VK_{137}	2012 11 13.41188	05 03 37.62	+17 37 36.5	2013 AP_{16}	21.5	V	G96
2012 VK_{137}	2012 11 13.41816	05 03 37.33	+17 37 36.6	2013 AP_{16}	20.7	V	G96
2012 WQ_{43}	*2012 11 17.27428	03 43 50.16	+15 34 28.6	2012 UC_{153}	21.2	V	G96
2012 WQ_{43}	2012 11 17.28105	03 43 49.69	+15 34 27.8	2012 UC_{153}	20.4	V	G96
2012 WQ_{43}	2012 11 17.28791	03 43 49.26	+15 34 27.0	2012 UC_{153}	21.3	V	G96
2012 WQ_{43}	2012 11 17.29465	03 43 48.82	+15 34 26.2	2012 UC_{153}	21.1	V	G96
2012 WR_{43}	*2012 11 17.27551	03 46 55.88	+14 24 53.3	2012 VN_{19}	20.5	V	G96
2012 WR_{43}	2012 11 17.28230	03 46 55.52	+14 24 51.8	2012 VN_{19}	21.0	V	G96
2012 WR_{43}	2012 11 17.28912	03 46 55.09	+14 24 49.8	2012 VN_{19}	20.9	V	G96
2012 WR_{43}	2012 11 17.29586	03 46 54.69	+14 24 47.8	2012 VN_{19}	20.9	V	G96

2012 WS_{43}	*2012 11 21.28306	04 08 39.32	−01 09 49.8	2012 VC_{112}	20.2	R	H36
2012 WS_{43}	2012 11 21.29076	04 08 38.92	−01 09 49.4	2012 VC_{112}	20.1	R	H36
2012 WS_{43}	2012 11 21.30620	04 08 38.02	−01 09 48.4	2012 VC_{112}	20.3	R	H36
2012 WT_{43}	*2012 11 23.22557	04 05 55.35	+17 46 12.8	2012 WD_{12}	21.2	V	691
2012 WT_{43}	2012 11 23.24073	04 05 54.43	+17 46 10.8	2012 WD_{12}	21.1	V	691
2012 WT_{43}	2012 11 23.25593	04 05 53.55	+17 46 08.1	2012 WD_{12}	21.1	V	691
2012 WU_{43}	*2012 11 20.22757	03 31 58.69	+18 31 36.1	2012 WF_{31}	21.4	V	G96
2012 WU_{43}	2012 11 20.23635	03 31 58.11	+18 31 35.6	2012 WF_{31}	22.4	V	G96
2012 WU_{43}	2012 11 20.24520	03 31 57.57	+18 31 35.4	2012 WF_{31}	21.7	V	G96
2012 WU_{43}	2012 11 20.25406	03 31 57.03	+18 31 34.5	2012 WF_{31}	21.7	V	G96
2012 WV_{43}	*2012 11 20.22757	03 33 12.85	+18 29 21.5	2012 WJ_{31}	22.4	V	G96
2012 WV_{43}	2012 11 20.23635	03 33 12.42	+18 29 19.7	2012 WJ_{31}	21.7	V	G96
2012 WV_{43}	2012 11 20.24520	03 33 11.95	+18 29 18.0	2012 WJ_{31}	20.8	V	G96
2012 WV_{43}	2012 11 20.25406	03 33 11.48	+18 29 17.0	2012 WJ_{31}	21.4	V	G96
2012 WW_{43}	*2012 11 24.34723	04 21 45.74	+22 55 38.4	2012 WH_{32}	20.4	R	290
2012 WW_{43}	2012 11 24.35105	04 21 45.53	+22 55 38.0	2012 WH_{32}	20.5	R	290
2012 WW_{43}	2012 11 24.35487	04 21 45.32	+22 55 37.5	2012 WH_{32}	20.3	R	290
2012 WW_{43}	2012 11 24.35869	04 21 45.04	+22 55 38.7	2012 WH_{32}	20.5	R	290
2012 WW_{43}	2012 11 24.36250	04 21 44.83	+22 55 38.0	2012 WH_{32}	20.2	R	290
2012 XY_{175}	*2012 12 05.18101	01 57 01.87	+09 48 01.4	2012 VW_{11}	20.4	V	G96
2012 XY_{175}	2012 12 05.18771	01 57 01.76	+09 48 03.6	2012 VW_{11}	20.6	V	G96
2012 XY_{175}	2012 12 05.19429	01 57 01.69	+09 48 04.5	2012 VW_{11}	21.2	V	G96
2012 XY_{175}	2012 12 05.20098	01 57 01.51	+09 48 05.5	2012 VW_{11}	20.6	V	G96
2012 XZ_{175}	*2012 12 06.22727	03 57 35.78	+15 30 40.4	2012 VY_{91}	21.1	V	G96
2012 XZ_{175}	2012 12 06.23376	03 57 35.42	+15 30 39.2	2012 VY_{91}	21.0	V	G96
2012 XZ_{175}	2012 12 06.24034	03 57 35.10	+15 30 37.4	2012 VY_{91}	21.1	V	G96
2012 XZ_{175}	2012 12 06.24696	03 57 34.74	+15 30 36.5	2012 VY_{91}	20.8	V	G96
2012 XA_{176}	*2012 12 11.34949	03 46 42.56	−02 04 20.7	2012 VD_{112}	19.7	V	703
2012 XA_{176}	2012 12 11.35543	03 46 42.27	−02 04 18.5	2012 VD_{112}	19.6	V	703
2012 XA_{176}	2012 12 11.36137	03 46 42.09	−02 04 16.7	2012 VD_{112}	19.2	V	703
2012 XA_{176}	2012 12 11.36730	03 46 41.80	−02 04 13.4	2012 VD_{112}	19.8	V	703
2012 XB_{176}	*2012 12 05.23466	04 39 34.20	+17 55 41.1	2012 XN_3	21.5	V	G96
2012 XB_{176}	2012 12 05.24166	04 39 33.73	+17 55 39.4	2012 XN_3	21.6	V	G96
2012 XB_{176}	2012 12 05.24876	04 39 33.30	+17 55 38.5	2012 XN_3	21.4	V	G96
2012 XB_{176}	2012 12 05.25586	04 39 32.86	+17 55 37.2	2012 XN_3	21.7	V	G96
2012 XC_{176}	*2012 12 06.42997	04 25 16.82	+29 40 15.9	2012 XO_{15}	20.9	V	G96
2012 XC_{176}	2012 12 06.43293	04 25 16.60	+29 40 15.2	2012 XO_{15}	21.8	V	G96
2012 XC_{176}	2012 12 06.43585	04 25 16.42	+29 40 14.7	2012 XO_{15}	20.4	V	G96
2012 XC_{176}	2012 12 06.43876	04 25 16.28	+29 40 13.9	2012 XO_{15}	20.6	V	G96
2012 XD_{176}	*2012 12 08.18773	04 06 52.02	+19 42 42.3	2012 XD_{20}	20.8	V	G96
2012 XD_{176}	2012 12 08.19298	04 06 51.69	+19 42 42.7	2012 XD_{20}	21.1	V	G96
2012 XD_{176}	2012 12 08.19831	04 06 51.40	+19 42 42.6	2012 XD_{20}	20.6	V	G96
2012 XD_{176}	2012 12 08.20358	04 06 51.15	+19 42 42.5	2012 XD_{20}	21.1	V	G96
2012 XD_{176}	2012 12 08.20963	04 06 50.83	+19 42 42.9	2012 XD_{20}	21.0	V	G96
2012 XD_{176}	2012 12 08.21106	04 06 50.76	+19 42 43.2	2012 XD_{20}	20.6	V	G96
2012 XD_{176}	2012 12 08.21250	04 06 50.65	+19 42 42.6	2012 XD_{20}	20.7	V	G96
2012 XD_{176}	2012 12 08.21392	04 06 50.58	+19 42 42.5	2012 XD_{20}	20.6	V	G96
2012 XE_{176}	*2012 12 08.30625	04 49 53.54	+23 08 46.6	2012 XP_{26}	20.6	V	G96
2012 XE_{176}	2012 12 08.31218	04 49 53.14	+23 08 45.4	2012 XP_{26}	21.1	V	G96
2012 XE_{176}	2012 12 08.31859	04 49 52.71	+23 08 43.6	2012 XP_{26}	20.8	V	G96
2012 XE_{176}	2012 12 08.32450	04 49 52.35	+23 08 42.2	2012 XP_{26}	20.4	V	G96
2012 XF_{176}	*2012 12 08.27827	04 35 12.19	+24 49 42.3	2012 XO_{30}	21.6	V	G96
2012 XF_{176}	2012 12 08.28421	04 35 11.79	+24 49 40.1	2012 XO_{30}	21.9	V	G96
2012 XF_{176}	2012 12 08.29017	04 35 11.43	+24 49 38.7	2012 XO_{30}	21.8	V	G96
2012 XF_{176}	2012 12 08.29689	04 35 11.00	+24 49 36.9	2012 XO_{30}	21.6	V	G96
2012 XG_{176}	*2012 12 08.27827	04 35 06.72	+24 52 06.0	2012 XP_{30}	20.9	V	G96
2012 XG_{176}	2012 12 08.28421	04 35 06.36	+24 52 04.7	2012 XP_{30}	20.9	V	G96
2012 XG_{176}	2012 12 08.29017	04 35 06.00	+24 52 04.1	2012 XP_{30}	20.6	V	G96
2012 XG_{176}	2012 12 08.29689	04 35 05.56	+24 52 02.5	2012 XP_{30}	21.0	V	G96
2012 XH_{176}	*2012 12 08.36138	04 54 18.64	+21 05 41.9	2012 XV_{34}	21.3	V	G96
2012 XH_{176}	2012 12 08.36754	04 54 18.28	+21 05 41.1	2012 XV_{34}	21.2	V	G96
2012 XH_{176}	2012 12 08.37382	04 54 17.85	+21 05 41.0	2012 XV_{34}	21.0	V	G96
2012 XH_{176}	2012 12 08.38003	04 54 17.38	+21 05 40.7	2012 XV_{34}	21.6	V	G96
2012 XJ_{176}	*2012 12 08.38752	04 55 44.11	+19 24 41.5	2012 XR_{38}	20.5	V	G96
2012 XJ_{176}	2012 12 08.39277	04 55 43.78	+19 24 40.8	2012 XR_{38}	21.1	V	G96
2012 XJ_{176}	2012 12 08.39804	04 55 43.50	+19 24 40.6	2012 XR_{38}	20.4	V	G96
2012 XJ_{176}	2012 12 08.40332	04 55 43.21	+19 24 40.0	2012 XR_{38}	20.7	V	G96
2012 XK_{176}	*2012 12 08.38694	04 57 23.11	+20 23 27.8	2012 XU_{38}	20.8	V	G96
2012 XK_{176}	2012 12 08.39221	04 57 22.82	+20 23 26.8	2012 XU_{38}	20.6	V	G96
2012 XK_{176}	2012 12 08.39746	04 57 22.50	+20 23 26.4	2012 XU_{38}	20.4	V	G96
2012 XK_{176}	2012 12 08.40277	04 57 22.17	+20 23 25.4	2012 XU_{38}	20.9	V	G96
2012 XL_{176}	*2012 12 08.41424	05 09 27.54	+22 50 16.6	2012 XV_{40}	18.8	V	G96
2012 XL_{176}	2012 12 08.42083	05 09 27.03	+22 50 16.4	2012 XV_{40}	19.6	V	G96
2012 XL_{176}	2012 12 08.42745	05 09 26.60	+22 50 15.7	2012 XV_{40}	19.6	V	G96
2012 XL_{176}	2012 12 08.43407	05 09 26.17	+22 50 14.9	2012 XV_{40}	19.7	V	G96
2012 XM_{176}	*2012 12 07.243053	03 03 50.931	+14 25 19.59	2012 XG_{59}	21.8	R	F51
2012 XM_{176}	2012 12 07.258079	03 03 50.221	+14 25 21.41	2012 XG_{59}	21.8	R	F51
2012 XN_{176}	*2012 12 07.273086	03 04 49.294	+14 48 01.57	2012 XH_{59}	21.7	R	F51
2012 XN_{176}	2012 12 07.288126	03 04 48.760	+14 47 59.80	2012 XH_{59}	21.8	R	F51
2012 XO_{176}	*2012 12 10.27050	03 47 55.448	+17 42 10.57	2012 XP_{76}	21.8	w	F51
2012 XO_{176}	2012 12 10.28596	03 47 54.716	+17 42 11.72	2012 XP_{76}	21.7	w	F51
2012 XO_{176}	2012 12 10.32708	03 47 52.709	+17 42 13.98	2012 XP_{76}	22.1	w	F51
2012 XP_{176}	*2012 12 11.25740	05 04 03.43	+16 32 36.0	2012 XU_{95}	20.7	V	G96
2012 XP_{176}	2012 12 11.26434	05 04 03.07	+16 32 34.9	2012 XU_{95}	21.0	V	G96
2012 XP_{176}	2012 12 11.27141	05 04 02.60	+16 32 37.2	2012 XU_{95}	21.0	V	G96
2012 XP_{176}	2012 12 11.27846	05 04 02.24	+16 32 36.5	2012 XU_{95}	20.9	V	G96
2012 XQ_{176}	*2012 12 11.21598	04 31 06.74	+28 44 15.3	2012 XX_{101}	20.1	V	G96
2012 XQ_{176}	2012 12 11.22390	04 31 06.27	+28 44 12.6	2012 XX_{101}	19.9	V	G96
2012 XQ_{176}	2012 12 11.23185	04 31 05.77	+28 44 09.7	2012 XX_{101}	20.3	V	G96
2012 XQ_{176}	2012 12 11.23976	04 31 05.30	+28 44 06.5	2012 XX_{101}	20.2	V	G96
2012 XR_{176}	*2012 12 13.14593	04 18 15.01	+12 30 42.5	2012 XC_{114}	19.8	V	G96
2012 XR_{176}	2012 12 13.15118	04 18 14.72	+12 30 43.0	2012 XC_{114}	20.4	V	G96
2012 XR_{176}	2012 12 13.15639	04 18 14.43	+12 30 42.9	2012 XC_{114}	20.1	V	G96
2012 XR_{176}	2012 12 13.16170	04 18 14.11	+12 30 43.8	2012 XC_{114}	20.0	V	G96
2012 XS_{176}	*2012 12 13.23508	04 22 13.76	+22 55 53.7	2012 XG_{117}	21.3	R	290
2012 XS_{176}	2012 12 13.23889	04 22 13.60	+22 55 53.3	2012 XG_{117}	20.8	R	290
2012 XS_{176}	2012 12 13.24271	04 22 13.37	+22 55 53.2	2012 XG_{117}	21.2	R	290
2012 XS_{176}	2012 12 13.24652	04 22 13.19	+22 55 52.6	2012 XG_{117}	21.8	R	290
2012 XS_{176}	2012 12 13.25034	04 22 12.86	+22 55 52.2	2012 XG_{117}	21.7	R	290
2012 XT_{176}	*2012 12 08.49977	08 53 54.84	+18 07 38.1	2013 BQ_{81}	20.4	R	290
2012 XT_{176}	2012 12 08.50358	08 53 54.83	+18 07 37.5	2013 BQ_{81}	20.4	R	290
2012 XT_{176}	2012 12 08.50740	08 53 54.81	+18 07 36.7	2013 BQ_{81}	20.4	R	290
2012 XT_{176}	2012 12 08.51122	08 53 54.79	+18 07 36.0	2013 BQ_{81}	20.4	R	290
2012 XT_{176}	2012 12 08.51502	08 53 54.78	+18 07 35.3	2013 BQ_{81}	20.5	R	290
2012 XT_{176}	2012 12 08.51884	08 53 54.76	+18 07 34.5	2013 BQ_{81}	20.4	R	290
2012 XZ_{176}	*2012 12 04.29756	05 10 28.66	+13 52 25.3	2020 YD_{15}	20.8	V	G96

2012 XZ_{176}		2012 12 04.30517	05 10 28.20	+13 52 25.3	2020 YD_{15}	21.1	V	G96	2013 BE_{101}		2013 01 22.39996	08 16 24.34	+28 08 34.7	2013 BE_{47}	20.6	V	G96
2012 XZ_{176}		2012 12 04.31282	05 10 27.62	+13 52 25.1	2020 YD_{15}	20.9	V	G96	2013 BE_{101}		2013 01 22.40694	08 16 23.91	+28 08 35.7	2013 BE_{47}	20.7	V	G96
2012 XZ_{176}		2012 12 04.32050	05 10 27.15	+13 52 24.8	2020 YD_{15}	21.3	V	G96	2013 BE_{101}		2013 01 22.41394	08 16 23.48	+28 08 37.7	2013 BE_{47}	21.1	V	G96
2012 YZ_{22}	*2012 12 21.22530		04 17 43.72	+23 01 20.3	2012 XE_{92}	20.7	V	G96	2013 BF_{101}	*2013 01 22.21662		08 11 35.30	+22 32 25.9	2013 BJ_{49}	21.4	V	G96
2012 YZ_{22}		2012 12 21.22887	04 17 43.62	+23 01 19.4	2012 XE_{92}	20.7	V	G96	2013 BF_{101}		2013 01 22.22373	08 11 34.90	+22 32 27.5	2013 BJ_{49}	21.2	V	G96
2012 YZ_{22}		2012 12 21.23240	04 17 43.44	+23 01 18.1	2012 XE_{92}	21.0	V	G96	2013 BF_{101}		2013 01 22.23088	08 11 34.47	+22 32 29.3	2013 BJ_{49}	20.7	V	G96
2012 YZ_{22}		2012 12 21.23598	04 17 43.26	+23 01 17.3	2012 XE_{92}	20.4	V	G96	2013 BF_{101}		2013 01 22.23801	08 11 34.11	+22 32 31.5	2013 BJ_{49}	21.0	V	G96
2012 YA_{23}	*2012 12 21.38319		07 30 26.28	+22 49 50.5	2012 YD_2	21.0	V	G96	2013 BG_{101}	*2013 01 22.21721		08 12 01.44	+23 11 25.0	2013 BP_{49}	20.5	V	G96
2012 YA_{23}		2012 12 21.38848	07 30 26.02	+22 49 50.5	2012 YD_2	21.3	V	G96	2013 BG_{101}		2013 01 22.22431	08 12 00.97	+23 11 26.3	2013 BP_{49}	19.9	V	G96
2012 YA_{23}		2012 12 21.39378	07 30 25.74	+22 49 50.4	2012 YD_2	21.5	V	G96	2013 BG_{101}		2013 01 22.23146	08 12 00.54	+23 11 26.3	2013 BP_{49}	19.9	V	G96
2012 YA_{23}		2012 12 21.39903	07 30 25.45	+22 49 50.4	2012 YD_2	21.3	V	G96	2013 BG_{101}		2013 01 22.23856	08 12 00.07	+23 11 28.4	2013 BP_{49}	20.4	V	G96
2012 YB_{23}	*2012 12 22.61796		13 08 50.389	−06 22 38.30	2013 HY_{42}	22.0	w	F51	2013 BH_{101}	*2013 01 22.39013		08 26 25.87	+26 03 55.6	2013 BT_{50}	21.4	V	G96
2012 YB_{23}		2012 12 22.62257	13 08 50.730	−06 22 41.59	2013 HY_{42}	22.0	w	F51	2013 BH_{101}		2013 01 22.39708	08 26 25.40	+26 03 57.2	2013 BT_{50}	20.8	V	G96
2012 YB_{23}		2012 12 22.62718	13 08 51.056	−06 22 44.65	2013 HY_{42}	22.0	w	F51	2013 BH_{101}		2013 01 22.40405	08 26 24.93	+26 03 58.7	2013 BT_{50}	21.2	V	G96
2013 AM_{204}	*2013 01 04.40339		05 31 07.67	+49 18 57.5	2012 YA_8			291	2013 BH_{101}		2013 01 22.41110	08 26 24.46	+26 04 00.1	2013 BT_{50}	21.6	V	G96
2013 AM_{204}		2013 01 04.40625	05 31 07.44	+49 18 55.2	2012 YA_8	21.1	R	291	2013 BJ_{101}	*2013 01 17.49229		10 44 33.79	+08 12 45.5	2013 CO_{157}	21.8	V	G96
2013 AM_{204}		2013 01 04.40910	05 31 07.21	+49 18 52.9	2012 YA_8	21.0	R	291	2013 BJ_{101}		2013 01 17.49795	10 44 33.72	+08 12 46.8	2013 CO_{157}	22.2	V	G96
2013 AN_{204}	*2013 01 12.36563		07 17 41.85	+31 54 06.9	2013 AQ_{62}	20.9	V	G96	2013 BJ_{101}		2013 01 17.50363	10 44 33.64	+08 12 48.6	2013 CO_{157}	21.9	V	G96
2013 AN_{204}		2013 01 12.37083	07 17 41.46	+31 54 07.8	2013 AQ_{62}	21.6	V	G96	2013 BJ_{101}		2013 01 17.50929	10 44 33.54	+08 12 50.1	2013 CO_{157}	22.1	V	G96
2013 AN_{204}		2013 01 12.37615	07 17 41.13	+31 54 08.9	2013 AQ_{62}	21.6	V	G96	2013 CG_{253}	*2013 02 02.20431		07 55 46.02	+16 34 42.6	2019 OL_{36}	22.8	V	G96
2013 AN_{204}		2013 01 12.38142	07 17 40.81	+31 54 09.6	2013 AQ_{62}	20.8	V	G96	2013 CG_{253}		2013 02 02.21145	07 55 45.80	+16 34 44.2	2019 OL_{36}	22.4	V	G96
2013 AO_{204}	*2013 01 12.36618		07 19 36.19	+33 11 34.9	2013 AU_{62}	21.4	V	G96	2013 CG_{253}		2013 02 02.21852	07 55 45.58	+16 34 45.0	2019 OL_{36}	22.6	V	G96
2013 AO_{204}		2013 01 12.37142	07 19 35.86	+33 11 35.3	2013 AU_{62}	21.1	V	G96	2013 CG_{253}		2013 02 02.22561	07 55 45.37	+16 34 45.9	2019 OL_{36}	22.1	V	G96
2013 AO_{204}		2013 01 12.37672	07 19 35.50	+33 11 35.1	2013 AU_{62}	21.0	V	G96	2013 CK_{253}	*2013 02 14.23814		09 12 01.08	+16 45 11.3	2013 BP_{40}	21.1	V	G96
2013 AO_{204}		2013 01 12.38198	07 19 35.18	+33 11 35.5	2013 AU_{62}	21.5	V	G96	2013 CK_{253}		2013 02 14.24493	09 12 00.72	+16 45 13.1	2013 BP_{40}	21.4	V	G96
2013 AP_{204}	*2013 01 10.99534		07 28 11.43	+19 29 31.9	2013 AA_{64}	20.6	R	B74	2013 CK_{253}		2013 02 14.25171	09 12 00.39	+16 45 13.9	2013 BP_{40}	20.8	V	G96
2013 AP_{204}		2013 01 11.00499	07 28 10.84	+19 29 34.0	2013 AA_{64}	20.5	R	B74	2013 CK_{253}		2013 02 14.25850	09 12 00.03	+16 45 15.6	2013 BP_{40}	20.8	V	G96
2013 AP_{204}		2013 01 11.01560	07 28 10.09	+19 29 36.7	2013 AA_{64}	20.4	R	B74	2013 CL_{253}	*2013 02 12.27680		07 40 26.921	+24 01 48.38	2013 CV_{84}	21.7	w	F51
2013 AQ_{204}	*2013 01 11.87396		07 28 50.82	+19 43 34.0	2013 AB_{64}	20.9	R	B74	2013 CL_{253}		2013 02 12.28998	07 40 26.376	+24 01 50.02	2013 CV_{84}	21.6	w	F51
2013 AQ_{204}		2013 01 11.88394	07 28 50.30	+19 43 37.0	2013 AB_{64}	21.9	R	B74	2013 CL_{253}		2013 02 12.30317	07 40 25.836	+24 01 51.67	2013 CV_{84}	21.5	w	F51
2013 AQ_{204}		2013 01 11.89392	07 28 49.77	+19 43 40.2	2013 AB_{64}	20.9	R	B74	2013 CM_{253}	*2013 02 14.23418		09 26 55.60	+15 12 35.3	2013 CM_{91}	21.0	V	G96
2013 AQ_{204}		2013 01 22.02056	07 19 58.41	+20 42 57.2	2013 AB_{64}	21.6	R	B74	2013 CM_{253}		2013 02 14.24096	09 26 55.32	+15 12 37.4	2013 CM_{91}	20.6	V	G96
2013 AQ_{204}		2013 01 22.02952	07 19 57.92	+20 43 00.3	2013 AB_{64}	21.7	R	B74	2013 CM_{253}		2013 02 14.24775	09 26 54.92	+15 12 39.0	2013 CM_{91}	20.7	V	G96
2013 AQ_{204}		2013 01 22.03847	07 19 57.43	+20 43 03.3	2013 AB_{64}	21.4	R	B74	2013 CM_{253}		2013 02 14.25451	09 26 54.63	+15 12 41.0	2013 CM_{91}	21.1	V	G96
2013 AR_{204}	*2013 01 13.17407		04 38 16.29	+24 56 46.1	2013 AU_{65}	20.6	V	G96	2013 CN_{253}	*2013 02 14.26752		09 47 43.94	+11 33 37.5	2013 CW_{92}	21.7	V	G96
2013 AR_{204}		2013 01 13.17874	04 38 16.22	+24 56 46.3	2013 AU_{65}	20.9	V	G96	2013 CN_{253}		2013 02 14.27341	09 47 43.62	+11 33 40.1	2013 CW_{92}	22.0	V	G96
2013 AR_{204}		2013 01 13.18340	04 38 16.04	+24 56 46.8	2013 AU_{65}	21.6	V	G96	2013 CN_{253}		2013 02 14.27926	09 47 43.26	+11 33 41.7	2013 CW_{92}	21.2	V	G96
2013 AR_{204}		2013 01 13.18802	04 38 15.93	+24 56 47.1	2013 AU_{65}	20.4	V	G96	2013 CN_{253}		2013 02 14.28508	09 47 42.97	+11 33 44.6	2013 CW_{92}	20.7	V	G96
2013 AS_{204}	*2013 01 13.23598		05 00 24.80	+26 11 49.4	2013 AK_{66}	20.9	V	G96	2013 CO_{253}	*2013 02 14.36186		08 43 16.533	+44 42 29.79	2013 CZ_{121}	21.6	i	F51
2013 AS_{204}		2013 01 13.24126	05 00 24.62	+26 11 48.7	2013 AK_{66}	21.1	V	G96	2013 CO_{253}		2013 02 14.36482	08 43 16.366	+44 42 29.81	2013 CZ_{121}	21.9	i	F51
2013 AS_{204}		2013 01 13.24657	05 00 24.44	+26 11 47.6	2013 AK_{66}	20.8	V	G96	2013 CO_{253}		2013 02 14.36776	08 43 16.176	+44 42 29.59	2013 CZ_{121}	21.7	i	F51
2013 AS_{204}		2013 01 13.25191	05 00 24.30	+26 11 46.5	2013 AK_{66}	20.6	V	G96	2013 CO_{253}		2013 02 14.37072	08 43 15.975	+44 42 29.62	2013 CZ_{121}	21.6	i	F51
2013 AT_{204}	*2013 01 10.52759		09 12 09.669	+12 00 19.48	2013 CU_4	21.3	w	F51	2013 CO_{253}		2013 02 14.37368	08 43 15.812	+44 42 29.48	2013 CZ_{121}	21.5	i	F51
2013 AT_{204}		2013 01 10.54142	09 12 09.089	+12 00 22.29	2013 CU_4	21.5	w	F51	2013 CO_{253}		2013 02 14.38254	08 43 15.275	+44 42 29.18	2013 CZ_{121}	21.5	i	F51
2013 AT_{204}		2013 01 10.55523	09 12 08.531	+12 00 25.20	2013 CU_4	21.6	w	F51	2013 DG_{22}	*2013 02 19.21600		10 34 29.60	+08 31 08.9	2013 CT_{138}			691
2013 AT_{204}		2013 01 10.56914	09 12 07.967	+12 00 27.57	2013 CU_4	21.7	w	F51	2013 DG_{22}		2013 02 19.23387	10 34 28.59	+08 31 12.6	2013 CT_{138}			691
2013 BC_{101}	*2013 01 16.49759		07 51 46.666	+22 24 08.34	2013 AC_{82}	20.9	w	F51	2013 DG_{22}		2013 02 19.24919	10 34 27.73	+08 31 15.2	2013 CT_{138}			691
2013 BC_{101}		2013 01 16.51205	07 51 45.773	+22 24 09.51	2013 AC_{82}	21.1	w	F51	2013 DH_{22}	*2013 02 18.38518		11 32 04.71	+01 30 54.2	2013 CF_{164}	21.1	V	691
2013 BC_{101}		2013 01 16.52655	07 51 44.897	+22 24 10.69	2013 AC_{82}	21.1	w	F51	2013 DH_{22}		2013 02 18.40283	11 32 04.00	+01 30 59.6	2013 CF_{164}	21.7	V	691
2013 BD_{101}	*2013 01 17.24465		08 42 36.52	+15 15 18.5	2013 AO_{109}	21.2	V	691	2013 DH_{22}		2013 02 18.42050	11 32 03.33	+01 31 07.0	2013 CF_{164}	21.7	V	691
2013 BD_{101}		2013 01 17.26278	08 42 35.52	+15 15 24.0	2013 AO_{109}	21.1	V	691	2013 DJ_{22}	*2013 02 19.98392		08 46 05.90	+39 03 02.5	2013 CZ_{208}	20.4	R	B74
2013 BD_{101}		2013 01 17.28090	08 42 34.52	+15 15 28.2	2013 AO_{109}	21.1	V	691	2013 DJ_{22}		2013 02 20.01792	08 46 04.23	+39 03 05.0	2013 CZ_{208}	20.6	R	B74
2013 BE_{101}	*2013 01 22.39296		08 16 24.74	+28 08 32.7	2013 BE_{47}	19.5	V	G96	2013 DJ_{22}		2013 02 20.06407	08 46 01.96	+39 03 07.4	2013 CZ_{208}	20.0	R	B74

2013 DK_{22}	*2013 02 18.41485	13 27 19.65	−07 47 36.6	2013 FE_{25}	20.6	V	G96
2013 DK_{22}	2013 02 18.42407	13 27 19.76	−07 47 39.0	2013 FE_{25}	20.7	V	G96
2013 DK_{22}	2013 02 18.43328	13 27 19.76	−07 47 42.0	2013 FE_{25}	20.3	V	G96
2013 DK_{22}	2013 02 18.44255	13 27 19.83	−07 47 44.5	2013 FE_{25}	20.6	V	G96
2013 EK_{178}	*2013 03 15.33274	11 51 38.52	+02 46 39.6	2013 EH_{100}	20.9	V	G96
2013 EK_{178}	2013 03 15.33763	11 51 38.30	+02 46 41.1	2013 EH_{100}	21.1	V	G96
2013 EK_{178}	2013 03 15.34245	11 51 38.05	+02 46 42.6	2013 EH_{100}	21.1	V	G96
2013 EK_{178}	2013 03 15.34731	11 51 37.87	+02 46 43.7	2013 EH_{100}	20.7	V	G96
2013 EM_{178}	*2013 03 14.25151	10 33 06.76	+07 50 58.6	2013 CJ_{171}	21.3	V	G96
2013 EM_{178}	2013 03 14.25706	10 33 06.48	+07 51 00.4	2013 CJ_{171}	21.5	V	G96
2013 EM_{178}	2013 03 14.26229	10 33 06.30	+07 51 03.0	2013 CJ_{171}	21.7	V	G96
2013 EM_{178}	2013 03 14.26751	10 33 06.04	+07 51 05.2	2013 CJ_{171}	20.5	V	G96
2013 EM_{178}	2013 03 14.29258	10 33 04.93	+07 51 15.1	2013 CJ_{171}	21.1	V	G96
2013 EM_{178}	2013 03 14.29827	10 33 04.68	+07 51 17.4	2013 CJ_{171}	21.5	V	G96
2013 EM_{178}	2013 03 14.30395	10 33 04.42	+07 51 19.5	2013 CJ_{171}	21.4	V	G96
2013 EM_{178}	2013 03 14.30969	10 33 04.17	+07 51 21.6	2013 CJ_{171}	21.6	V	G96
2013 EM_{178}	2013 03 15.29455	10 32 22.16	+07 57 48.0	2013 CJ_{171}	21.0	V	G96
2013 EM_{178}	2013 03 15.30031	10 32 21.87	+07 57 50.1	2013 CJ_{171}	21.2	V	G96
2013 EM_{178}	2013 03 15.30620	10 32 21.62	+07 57 52.4	2013 CJ_{171}	20.9	V	G96
2013 EM_{178}	2013 03 15.31208	10 32 21.37	+07 57 54.8	2013 CJ_{171}	21.4	V	G96
2013 EM_{178}	2013 03 15.31798	10 32 21.08	+07 57 56.5	2013 CJ_{171}	21.2	V	G96
2013 EN_{178}	*2013 03 05.35352	10 02 12.342	+02 51 41.54	2013 DS_{15}	21.3	z	F51
2013 EN_{178}	2013 03 05.35648	10 02 12.210	+02 51 42.40	2013 DS_{15}	21.2	z	F51
2013 EN_{178}	2013 03 05.36240	10 02 11.923	+02 51 44.16	2013 DS_{15}	21.1	z	F51
2013 EN_{178}	2013 03 05.36535	10 02 11.798	+02 51 44.92	2013 DS_{15}	21.1	z	F51
2013 EN_{178}	2013 03 05.36831	10 02 11.648	+02 51 45.79	2013 DS_{15}	21.1	z	F51
2013 EN_{178}	2013 03 05.37125	10 02 11.504	+02 51 46.56	2013 DS_{15}	21.1	z	F51
2013 EO_{178}	*2013 03 08.45242	12 17 23.203	+02 22 35.56	2013 EQ_{27}	22.0	w	F51
2013 EO_{178}	2013 03 08.46650	12 17 22.572	+02 22 39.91	2013 EQ_{27}	22.0	w	F51
2013 EO_{178}	2013 03 08.48062	12 17 21.971	+02 22 44.57	2013 EQ_{27}	21.9	w	F51
2013 EP_{178}	*2013 03 13.30546	11 22 13.65	+03 28 40.1	2013 EB_{44}	21.2	V	G96
2013 EP_{178}	2013 03 13.31137	11 22 13.33	+03 28 42.0	2013 EB_{44}	21.1	V	G96
2013 EP_{178}	2013 03 13.31721	11 22 12.97	+03 28 44.0	2013 EB_{44}	21.2	V	G96
2013 EP_{178}	2013 03 13.32306	11 22 12.64	+03 28 46.0	2013 EB_{44}	21.1	V	G96
2013 EQ_{178}	*2013 03 13.39665	11 22 50.59	+01 25 22.1	2013 EP_{44}	20.7	V	G96
2013 EQ_{178}	2013 03 13.40205	11 22 50.34	+01 25 23.6	2013 EP_{44}	21.6	V	G96
2013 EQ_{178}	2013 03 13.40745	11 22 49.98	+01 25 24.6	2013 EP_{44}	21.1	V	G96
2013 EQ_{178}	2013 03 13.41282	11 22 49.72	+01 25 26.8	2013 EP_{44}	21.6	V	G96
2013 ER_{178}	*2013 03 13.39963	11 21 02.84	+02 47 47.9	2013 EO_{50}	21.1	V	G96
2013 ER_{178}	2013 03 13.40506	11 21 02.59	+02 47 49.8	2013 EO_{50}	20.6	V	G96
2013 ER_{178}	2013 03 13.41043	11 21 02.37	+02 47 51.9	2013 EO_{50}	21.5	V	G96
2013 ER_{178}	2013 03 13.41583	11 21 01.98	+02 47 51.6	2013 EO_{50}	20.5	V	G96
2013 ES_{178}	*2013 03 13.32619	11 29 48.22	+01 48 44.4	2013 ER_{50}	20.4	V	G96
2013 ES_{178}	2013 03 13.33214	11 29 47.90	+01 48 44.8	2013 ER_{50}	20.8	V	G96
2013 ES_{178}	2013 03 13.33956	11 29 47.50	+01 48 46.2	2013 ER_{50}	20.8	V	G96
2013 ES_{178}	2013 03 13.34553	11 29 47.18	+01 48 46.9	2013 ER_{50}	20.6	V	G96
2013 ET_{178}	*2013 03 13.44682	12 21 44.78	+02 42 05.4	2013 EN_{51}	20.8	V	G96
2013 ET_{178}	2013 03 13.45211	12 21 44.56	+02 42 07.9	2013 EN_{51}	20.7	V	G96
2013 ET_{178}	2013 03 13.45737	12 21 44.28	+02 42 09.0	2013 EN_{51}	19.9	V	G96
2013 ET_{178}	2013 03 13.46271	12 21 44.02	+02 42 11.1	2013 EN_{51}	20.6	V	G96
2013 EU_{178}	*2013 03 13.37602	11 27 58.60	+06 16 01.8	2013 EE_{52}	20.5	V	G96
2013 EU_{178}	2013 03 13.38127	11 27 58.32	+06 16 03.1	2013 EE_{52}	20.7	V	G96
2013 EU_{178}	2013 03 13.38654	11 27 57.99	+06 16 04.9	2013 EE_{52}	21.3	V	G96
2013 EU_{178}	2013 03 13.39184	11 27 57.63	+06 16 06.4	2013 EE_{52}	21.1	V	G96
2013 EV_{178}	*2013 03 13.30377	11 31 11.10	+03 09 22.8	2013 EK_{55}	21.0	V	G96
2013 EV_{178}	2013 03 13.30963	11 31 10.77	+03 09 25.3	2013 EK_{55}	21.0	V	G96
2013 EV_{178}	2013 03 13.31550	11 31 10.52	+03 09 27.4	2013 EK_{55}	21.3	V	G96
2013 EV_{178}	2013 03 13.32138	11 31 10.27	+03 09 29.3	2013 EK_{55}	20.8	V	G96
2013 EW_{178}	*2013 03 13.44624	12 24 07.56	+04 02 45.2	2013 EF_{63}	20.7	V	G96
2013 EW_{178}	2013 03 13.45153	12 24 07.27	+04 02 47.8	2013 EF_{63}	21.3	V	G96
2013 EW_{178}	2013 03 13.45678	12 24 07.05	+04 02 50.6	2013 EF_{63}	21.4	V	G96
2013 EW_{178}	2013 03 13.46212	12 24 06.73	+04 02 52.4	2013 EF_{63}	21.2	V	G96
2013 EX_{178}	*2013 03 13.37602	11 27 49.71	+06 13 34.7	2013 EO_{63}	21.3	V	G96
2013 EX_{178}	2013 03 13.38127	11 27 49.39	+06 13 35.9	2013 EO_{63}	21.9	V	G96
2013 EX_{178}	2013 03 13.38654	11 27 49.06	+06 13 37.9	2013 EO_{63}	21.7	V	G96
2013 EX_{178}	2013 03 13.39184	11 27 48.70	+06 13 38.8	2013 EO_{63}	21.6	V	G96
2013 EY_{178}	*2013 03 13.37602	11 31 28.81	+05 38 50.4	2013 EW_{63}	20.9	V	G96
2013 EY_{178}	2013 03 13.38127	11 31 28.59	+05 38 52.6	2013 EW_{63}	21.0	V	G96
2013 EY_{178}	2013 03 13.38654	11 31 28.38	+05 38 55.2	2013 EW_{63}	20.5	V	G96
2013 EY_{178}	2013 03 13.39184	11 31 28.16	+05 38 57.3	2013 EW_{63}	20.7	V	G96
2013 EZ_{178}	*2013 03 13.37322	11 38 19.42	+05 17 12.2	2013 EG_{64}	21.2	V	G96
2013 EZ_{178}	2013 03 13.37434	11 38 19.39	+05 17 12.9	2013 EG_{64}	21.1	V	G96
2013 EZ_{178}	2013 03 13.37841	11 38 19.14	+05 17 14.6	2013 EG_{64}	21.5	V	G96
2013 EZ_{178}	2013 03 13.37954	11 38 19.17	+05 17 15.1	2013 EG_{64}	21.1	V	G96
2013 EZ_{178}	2013 03 13.38370	11 38 18.85	+05 17 16.6	2013 EG_{64}	21.0	V	G96
2013 EZ_{178}	2013 03 13.38484	11 38 18.78	+05 17 16.9	2013 EG_{64}	21.0	V	G96
2013 EZ_{178}	2013 03 13.38900	11 38 18.52	+05 17 19.2	2013 EG_{64}	20.9	V	G96
2013 EZ_{178}	2013 03 13.39014	11 38 18.52	+05 17 18.9	2013 EG_{64}	20.9	V	G96
2013 EA_{179}	*2013 03 14.29523	11 00 32.83	+07 42 52.3	2013 ER_{69}	21.5	V	G96
2013 EA_{179}	2013 03 14.30091	11 00 32.47	+07 42 55.4	2013 ER_{69}	21.6	V	G96
2013 EA_{179}	2013 03 14.30661	11 00 32.14	+07 42 57.3	2013 ER_{69}	21.4	V	G96
2013 EA_{179}	2013 03 14.31232	11 00 31.82	+07 42 59.9	2013 ER_{69}	21.3	V	G96
2013 EB_{179}	*2013 03 14.29523	11 01 52.96	+08 33 44.4	2013 ES_{69}	20.6	V	G96
2013 EB_{179}	2013 03 14.30091	11 01 52.71	+08 33 47.3	2013 ES_{69}	20.9	V	G96
2013 EB_{179}	2013 03 14.30661	11 01 52.46	+08 33 50.2	2013 ES_{69}	20.8	V	G96
2013 EB_{179}	2013 03 14.31232	11 01 52.17	+08 33 53.1	2013 ES_{69}	20.5	V	G96
2013 EC_{179}	*2013 03 14.24751	10 50 37.21	+07 13 43.9	2013 EH_{71}	20.8	V	G96
2013 EC_{179}	2013 03 14.25306	10 50 36.99	+07 13 46.1	2013 EH_{71}	20.9	V	G96
2013 EC_{179}	2013 03 14.25834	10 50 36.74	+07 13 48.4	2013 EH_{71}	21.2	V	G96
2013 EC_{179}	2013 03 14.26355	10 50 36.49	+07 13 49.7	2013 EH_{71}	20.5	V	G96
2013 ED_{179}	*2013 03 14.24922	10 41 43.26	+07 55 46.5	2013 EK_{71}	21.1	V	G96
2013 ED_{179}	2013 03 14.25476	10 41 42.93	+07 55 47.5	2013 EK_{71}	21.2	V	G96
2013 ED_{179}	2013 03 14.26003	10 41 42.68	+07 55 49.3	2013 EK_{71}	20.9	V	G96
2013 ED_{179}	2013 03 14.26528	10 41 42.36	+07 55 50.0	2013 EK_{71}	20.6	V	G96
2013 EE_{179}	*2013 03 14.35112	11 19 16.42	+08 44 16.9	2013 EM_{73}	21.4	V	G96
2013 EE_{179}	2013 03 14.35704	11 19 16.17	+08 44 19.4	2013 EM_{73}	20.7	V	G96
2013 EE_{179}	2013 03 14.36293	11 19 15.81	+08 44 21.1	2013 EM_{73}	21.0	V	G96
2013 EE_{179}	2013 03 14.36880	11 19 15.52	+08 44 23.1	2013 EM_{73}	20.8	V	G96
2013 EF_{179}	*2013 03 14.35112	11 20 01.42	+09 33 41.2	2013 EZ_{73}	21.6	V	G96
2013 EF_{179}	2013 03 14.35704	11 20 01.14	+09 33 42.3	2013 EZ_{73}	20.9	V	G96
2013 EF_{179}	2013 03 14.36293	11 20 00.81	+09 33 44.2	2013 EZ_{73}	21.6	V	G96
2013 EF_{179}	2013 03 14.36880	11 20 00.52	+09 33 45.5	2013 EZ_{73}	21.4	V	G96
2013 EG_{179}	*2013 03 14.31814	11 17 20.43	+08 07 52.6	2013 EK_{74}	21.1	V	G96
2013 EG_{179}	2013 03 14.32341	11 17 20.18	+08 07 54.7	2013 EK_{74}	20.5	V	G96
2013 EG_{179}	2013 03 14.32870	11 17 19.93	+08 07 55.7	2013 EK_{74}	20.7	V	G96
2013 EG_{179}	2013 03 14.33392	11 17 19.68	+08 07 57.7	2013 EK_{74}	21.0	V	G96

2013 EH_{179}	*2013 03 14.31756	11 22 06.38	+07 33 51.3	2013 EW_{75}	21.4	V	G96	2013 GB_{161}	*2013 04 06.07981	13 56 09.10	−09 41 53.1	2013 HK_{117}	19.5	R	950
2013 EH_{179}	2013 03 14.32284	11 22 06.16	+07 33 53.3	2013 EW_{75}	21.3	V	G96	2013 GB_{161}	2013 04 06.08234	13 56 08.97	−09 41 53.0	2013 HK_{117}	21.0	R	950
2013 EH_{179}	2013 03 14.32812	11 22 05.95	+07 33 55.1	2013 EW_{75}	22.0	V	G96	2013 GB_{161}	2013 04 06.08442	13 56 08.89	−09 41 52.2	2013 HK_{117}	19.8	R	950
2013 EH_{179}	2013 03 14.33337	11 22 05.70	+07 33 57.0	2013 EW_{75}	21.4	V	G96	2013 GB_{161}	2013 04 06.08647	13 56 08.80	−09 41 51.9	2013 HK_{117}	20.4	R	950
2013 EJ_{179}	*2013 03 14.31587	11 25 33.09	+08 24 11.3	2013 EH_{77}	20.6	V	G96	2013 GB_{161}	2013 04 06.08869	13 56 08.72	−09 41 51.2	2013 HK_{117}	20.6	R	950
2013 EJ_{179}	2013 03 14.32116	11 25 32.80	+08 24 12.9	2013 EH_{77}	20.6	V	G96	2013 GB_{161}	2013 04 06.09436	13 56 08.43	−09 41 50.3	2013 HK_{117}	20.0	R	950
2013 EJ_{179}	2013 03 14.32640	11 25 32.48	+08 24 14.9	2013 EH_{77}	20.5	V	G96	2013 GB_{161}	2013 04 06.09644	13 56 08.33	−09 41 49.9	2013 HK_{117}	20.4	R	950
2013 EJ_{179}	2013 03 14.33168	11 25 32.16	+08 24 17.0	2013 EH_{77}	20.7	V	G96	2013 HM_{164}	*2013 04 17.16630	13 23 09.88	−11 16 51.7	2013 HE_{62}	22.9	r	W84
2013 EK_{179}	*2013 03 14.41358	11 49 49.15	+10 18 38.9	2013 EO_{81}	21.4	V	G96	2013 HM_{164}	2013 04 17.17049	13 23 09.67	−11 16 50.2	2013 HE_{62}	23.0	r	W84
2013 EK_{179}	2013 03 14.41957	11 49 48.86	+10 18 42.1	2013 EO_{81}	21.1	V	G96	2013 HM_{164}	2013 04 17.17473	13 23 09.46	−11 16 48.7	2013 HE_{62}	23.1	r	W84
2013 EK_{179}	2013 03 14.42547	11 49 48.61	+10 18 44.6	2013 EO_{81}	21.1	V	G96	2013 HM_{164}	2013 04 17.17894	13 23 09.23	−11 16 47.3	2013 HE_{62}	22.9	r	W84
2013 EK_{179}	2013 03 14.43141	11 49 48.25	+10 18 47.0	2013 EO_{81}	20.3	V	G96	2013 HM_{164}	2013 04 19.19211	13 21 30.75	−11 05 06.2	2013 HE_{62}	22.6	r	W84
2013 EL_{179}	*2013 03 14.19497	11 54 45.11	+03 12 06.3	2013 EN_{85}	21.4	V	691	2013 HM_{164}	2013 04 19.19615	13 21 30.54	−11 05 04.8	2013 HE_{62}	22.6	r	W84
2013 EL_{179}	2013 03 14.21284	11 54 44.29	+03 12 13.0	2013 EN_{85}	21.9	V	691	2013 HM_{164}	2013 04 19.20019	13 21 30.34	−11 05 03.4	2013 HE_{62}	22.6	r	W84
2013 EL_{179}	2013 03 14.23072	11 54 43.45	+03 12 21.0	2013 EN_{85}	21.9	V	691	2013 HM_{164}	2013 04 19.20424	13 21 30.13	−11 05 02.0	2013 HE_{62}	22.5	r	W84
2013 EM_{179}	*2013 03 11.37508	10 46 06.67	+20 24 01.6	2013 EQ_{93}	19.3	V	703	2013 JL_{79}	*2013 05 05.40855	14 58 44.740	−21 49 10.57	2013 EW_{102}	20.8	w	F51
2013 EM_{179}	2013 03 11.38873	10 46 05.95	+20 24 09.2	2013 EQ_{93}	20.9	V	703	2013 JL_{79}	2013 05 05.42333	14 58 43.816	−21 49 07.20	2013 EW_{102}	20.7	w	F51
2013 EM_{179}	2013 03 11.39491	10 46 05.70	+20 24 11.3	2013 EQ_{93}	20.0	V	703	2013 JL_{79}	2013 05 05.43812	14 58 42.909	−21 49 03.96	2013 EW_{102}	20.8	w	F51
2013 EM_{179}	2013 03 11.40110	10 46 05.37	+20 24 14.4	2013 EQ_{93}	20.4	V	703	2013 KU_{21}	*2013 05 16.27322	15 08 31.70	−18 09 56.5	2013 JV_{42}	20.6	V	G96
2013 EN_{179}	*2013 03 15.35216	12 06 10.08	+01 21 14.4	2013 EJ_{96}	21.0	V	G96	2013 KU_{21}	2013 05 16.28030	15 08 31.30	−18 09 55.6	2013 JV_{42}	20.2	V	G96
2013 EN_{179}	2013 03 15.35802	12 06 09.79	+01 21 15.0	2013 EJ_{96}	20.8	V	G96	2013 KU_{21}	2013 05 16.28724	15 08 30.91	−18 09 53.8	2013 JV_{42}	20.1	V	G96
2013 EN_{179}	2013 03 15.36347	12 06 09.46	+01 21 16.1	2013 EJ_{96}	21.1	V	G96	2013 KU_{21}	2013 05 16.29433	15 08 30.55	−18 09 52.9	2013 JV_{42}	20.5	V	G96
2013 EN_{179}	2013 03 15.36899	12 06 09.18	+01 21 16.6	2013 EJ_{96}	21.1	V	G96	2013 KV_{21}	*2013 05 16.25721	15 14 09.50	−18 06 20.4	2013 JD_{45}	20.4	V	691
2013 EO_{179}	*2013 03 15.35330	12 11 39.76	+03 00 18.5	2013 EG_{97}	20.6	V	G96	2013 KV_{21}	2013 05 16.27207	15 14 08.73	−18 06 17.9	2013 JD_{45}	20.1	V	G96
2013 EO_{179}	2013 03 15.35870	12 11 39.44	+03 00 20.1	2013 EG_{97}	20.8	V	G96	2013 KV_{21}	2013 05 16.27494	15 14 08.59	−18 06 17.9	2013 JD_{45}	20.4	V	691
2013 EO_{179}	2013 03 15.36416	12 11 39.19	+03 00 22.2	2013 EG_{97}	20.7	V	G96	2013 KV_{21}	2013 05 16.27914	15 14 08.34	−18 06 17.1	2013 JD_{45}	19.9	V	G96
2013 EO_{179}	2013 03 15.36970	12 11 38.86	+03 00 23.8	2013 EG_{97}	20.7	V	G96	2013 KV_{21}	2013 05 16.28610	15 14 07.98	−18 06 16.0	2013 JD_{45}	20.1	V	G96
2013 EP_{179}	*2013 03 15.32913	11 56 07.69	+00 31 42.2	2013 ER_{100}	20.1	V	G96	2013 KV_{21}	2013 05 16.29266	15 14 07.68	−18 06 15.3	2013 JD_{45}	20.5	V	691
2013 EP_{179}	2013 03 15.33401	11 56 07.44	+00 31 43.2	2013 ER_{100}	19.9	V	G96	2013 KV_{21}	2013 05 16.29316	15 14 07.65	−18 06 15.3	2013 JD_{45}	20.3	V	G96
2013 EP_{179}	2013 03 15.33885	11 56 07.15	+00 31 45.0	2013 ER_{100}	20.2	V	G96	2013 LD_{44}	*2013 06 05.07594	14 35 09.28	−11 27 52.8	2013 LE_{2}	19.4	R	G32
2013 EP_{179}	2013 03 15.34370	11 56 06.86	+00 31 46.5	2013 ER_{100}	20.2	V	G96	2013 LD_{44}	2013 06 05.08013	14 35 09.18	−11 27 53.1	2013 LE_{2}	19.5	R	G32
2013 EQ_{179}	*2013 03 13.37997	12 27 45.39	+19 00 46.8	2013 ED_{128}			I41	2013 LD_{44}	2013 06 05.08432	14 35 09.06	−11 27 52.9	2013 LE_{2}	19.7	R	G32
2013 EQ_{179}	2013 03 13.39261	12 27 44.82	+19 00 54.1	2013 ED_{128}			I41	2013 PT_{120}	*2013 08 08.53446	22 12 02.913	+00 46 46.81	2013 PT_{15}	21.7	g	F51
2013 EQ_{179}	2013 03 13.40530	12 27 44.21	+19 01 01.5	2013 ED_{128}			I41	2013 PT_{120}	2013 08 08.53743	22 12 02.762	+00 46 46.38	2013 PT_{15}	21.4	g	F51
2013 EQ_{179}	2013 03 13.41800	12 27 43.61	+19 01 09.1	2013 ED_{128}			I41	2013 PT_{120}	2013 08 08.53892	22 12 02.696	+00 46 46.33	2013 PT_{15}	21.7	g	F51
2013 ER_{179}	*2013 03 14.14946	08 11 18.41	+19 43 32.0	2013 EU_{139}			695	2013 PT_{120}	2013 08 08.54040	22 12 02.631	+00 46 46.11	2013 PT_{15}	21.7	g	F51
2013 ER_{179}	2013 03 14.23944	08 11 18.00	+19 43 35.2	2013 EU_{139}			695	2013 PT_{120}	2013 08 08.54189	22 12 02.546	+00 46 45.88	2013 PT_{15}	21.5	g	F51
2013 FY_{38}	*2013 03 18.25487	10 55 42.74	+10 49 58.0	2013 CM_{158}	21.1	V	G96	2013 PT_{120}	2013 08 08.54338	22 12 02.496	+00 46 45.78	2013 PT_{15}	21.6	g	F51
2013 FY_{38}	2013 03 18.26176	10 55 42.34	+10 50 00.4	2013 CM_{158}	20.9	V	G96	2013 PT_{120}	2013 08 08.54487	22 12 02.429	+00 46 45.36	2013 PT_{15}	21.6	g	F51
2013 FY_{38}	2013 03 18.26880	10 55 41.95	+10 50 03.0	2013 CM_{158}	20.8	V	G96	2013 PT_{120}	2013 08 08.54691	22 12 02.321	+00 46 45.41	2013 PT_{15}	20.9	r	F51
2013 FY_{38}	2013 03 18.27572	10 55 41.62	+10 50 04.5	2013 CM_{158}	20.8	V	G96	2013 PT_{120}	2013 08 08.54840	22 12 02.256	+00 46 45.17	2013 PT_{15}	20.9	r	F51
2013 FZ_{38}	*2013 03 19.31510	10 50 35.73	+12 20 05.8	2013 CB_{163}	21.3	V	G96	2013 PT_{120}	2013 08 08.55137	22 12 02.111	+00 46 44.85	2013 PT_{15}	21.1	r	F51
2013 FZ_{38}	2013 03 19.31911	10 50 35.52	+12 20 07.3	2013 CB_{163}	21.2	V	G96	2013 PT_{120}	2013 08 08.55586	22 12 01.900	+00 46 44.32	2013 PT_{15}	21.0	r	F51
2013 FZ_{38}	2013 03 19.32307	10 50 35.23	+12 20 09.1	2013 CB_{163}	21.1	V	G96	2013 PT_{120}	2013 08 08.55735	22 12 01.832	+00 46 44.09	2013 PT_{15}	21.1	r	F51
2013 FZ_{38}	2013 03 19.32707	10 50 35.08	+12 20 09.6	2013 CB_{163}	21.2	V	G96	2013 PU_{120}	*2013 08 09.57685	23 32 11.143	−01 16 03.98	2013 PL_{56}	22.1	i	F51
2013 FA_{39}	*2013 03 18.31906	11 44 55.32	+08 23 03.1	2013 EM_{115}	20.9	V	G96	2013 PU_{120}	2013 08 09.58276	23 32 11.008	−01 16 05.25	2013 PL_{56}	22.2	i	F51
2013 FA_{39}	2013 03 18.32657	11 44 54.96	+08 23 04.9	2013 EM_{115}	21.1	V	G96	2013 PU_{120}	2013 08 09.58571	23 32 10.938	−01 16 05.82	2013 PL_{56}	22.3	i	F51
2013 FA_{39}	2013 03 18.33406	11 44 54.45	+08 23 07.2	2013 EM_{115}	22.3	V	G96	2013 PU_{120}	2013 08 09.59163	23 32 10.801	−01 16 06.72	2013 PL_{56}	22.2	i	F51
2013 FA_{39}	2013 03 18.34159	11 44 54.02	+08 23 09.4	2013 EM_{115}	21.6	V	G96	2013 PU_{120}	2013 08 09.59458	23 32 10.750	−01 16 07.46	2013 PL_{56}	22.1	i	F51
2013 FB_{39}	*2013 03 31.37826	13 02 02.90	−07 44 17.5	2013 GS_{28}	21.3	V	G96	2013 PV_{120}	*2013 08 09.27137	22 05 42.57	−08 17 44.0	2013 QW_{61}	19.6	V	703
2013 FB_{39}	2013 03 31.38712	13 02 02.43	−07 44 15.2	2013 GS_{28}	21.3	V	G96	2013 PV_{120}	2013 08 09.27795	22 05 42.46	−08 17 48.6	2013 QW_{61}	20.0	V	703
2013 FB_{39}	2013 03 31.39602	13 02 01.86	−07 44 12.9	2013 GS_{28}	20.9	V	G96	2013 PV_{120}	2013 08 09.28469	22 05 42.03	−08 17 50.3	2013 QW_{61}	20.2	V	703
2013 FB_{39}	2013 03 31.40499	13 02 01.35	−07 44 10.1	2013 GS_{28}	19.8	V	G96	2013 PV_{120}	2013 08 09.29142	22 05 41.85	−08 17 51.0	2013 QW_{61}	20.2	V	703

2013 QT_{103}	*2013 08 18.45927	22 16 08.045	−09 18 43.36	2013 PM_{74}	20.6	i	F51
2013 QT_{103}	2013 08 18.46978	22 16 07.545	−09 18 48.03	2013 PM_{74}	20.6	r	F51
2013 QT_{103}	2013 08 18.47968	22 16 07.082	−09 18 52.31	2013 PM_{74}	20.8	r	F51
2013 QU_{103}	*2013 08 28.28800	22 43 20.57	−06 20 17.8	2013 SQ_{64}	21.7	V	G96
2013 QU_{103}	2013 08 28.29272	22 43 20.32	−06 20 19.1	2013 SQ_{64}	21.1	V	G96
2013 QU_{103}	2013 08 28.29745	22 43 20.13	−06 20 21.1	2013 SQ_{64}	21.1	V	G96
2013 RG_{155}	*2013 09 03.58868	21 59 03.18	−21 10 38.6	2013 PN_{67}			D44
2013 RG_{155}	2013 09 03.59296	21 59 03.04	−21 10 40.7	2013 PN_{67}	20.4	R	D44
2013 RG_{155}	2013 09 03.59724	21 59 02.78	−21 10 44.5	2013 PN_{67}	21.4	R	D44
2013 RG_{155}	2013 09 03.60157	21 59 02.60	−21 10 43.6	2013 PN_{67}	20.4	R	D44
2013 RG_{155}	2013 09 03.60585	21 59 02.48	−21 10 45.2	2013 PN_{67}	20.1	R	D44
2013 RG_{155}	2013 09 03.61012	21 59 02.27	−21 10 46.2	2013 PN_{67}	20.2	R	D44
2013 RG_{155}	2013 09 03.61868	21 59 01.92	−21 10 49.9	2013 PN_{67}			D44
2013 RG_{155}	2013 09 03.62298	21 59 01.77	−21 10 50.9	2013 PN_{67}			D44
2013 RH_{155}	*2013 09 02.44020	02 26 21.50	+30 29 28.2	2013 TC_{11}	21.2	V	G96
2013 RH_{155}	2013 09 02.44199	02 26 21.54	+30 29 28.8	2013 TC_{11}	21.3	V	G96
2013 RH_{155}	2013 09 02.44383	02 26 21.57	+30 29 30.0	2013 TC_{11}	21.0	V	G96
2013 RH_{155}	2013 09 02.44561	02 26 21.59	+30 29 31.0	2013 TC_{11}	21.1	V	G96
2013 RJ_{155}	*2013 09 13.39707	01 50 06.45	+12 53 32.4	2013 TY_{44}	20.1	V	G96
2013 RJ_{155}	2013 09 13.40612	01 50 06.29	+12 53 34.5	2013 TY_{44}	20.5	V	G96
2013 RJ_{155}	2013 09 13.41522	01 50 06.16	+12 53 35.0	2013 TY_{44}	20.8	V	G96
2013 RJ_{155}	2013 09 13.42429	01 50 06.02	+12 53 36.0	2013 TY_{44}	19.9	V	G96
2013 SX_{111}	*2013 09 28.24895	23 50 00.57	−00 06 22.4	2013 SN_{74}	20.7	V	G96
2013 SX_{111}	2013 09 28.25494	23 50 00.23	−00 06 24.9	2013 SN_{74}	20.4	V	G96
2013 SX_{111}	2013 09 28.26071	23 50 00.01	−00 06 26.3	2013 SN_{74}	20.8	V	G96
2013 SX_{111}	2013 09 28.26645	23 49 59.74	−00 06 29.4	2013 SN_{74}	20.8	V	G96
2013 SX_{111}	2013 09 28.27532	23 49 59.30	−00 06 31.6	2013 SN_{74}	20.7	V	G96
2013 SX_{111}	2013 09 28.28296	23 49 58.94	−00 06 34.5	2013 SN_{74}	20.4	V	G96
2013 SX_{111}	2013 09 28.29052	23 49 58.59	−00 06 36.9	2013 SN_{74}	20.6	V	G96
2013 SX_{111}	2013 09 28.29817	23 49 58.23	−00 06 40.1	2013 SN_{74}	20.4	V	G96
2013 SX_{111}	2013 09 28.36079	23 49 55.23	−00 07 00.7	2013 SN_{74}	21.4	V	G96
2013 SX_{111}	2013 09 28.36560	23 49 55.02	−00 07 02.2	2013 SN_{74}	20.7	V	G96
2013 SX_{111}	2013 09 28.37044	23 49 54.81	−00 07 04.2	2013 SN_{74}	20.9	V	G96
2013 SX_{111}	2013 09 28.37535	23 49 54.61	−00 07 05.6	2013 SN_{74}	21.5	V	G96
2013 TU_{226}	*2013 10 08.299390	01 21 41.83	+17 36 48.1	2013 TX_{118}	21.1	V	H21
2013 TU_{226}	2013 10 08.307812	01 21 41.42	+17 36 45.6	2013 TX_{118}	21.3	V	H21
2013 TU_{226}	2013 10 08.322123	01 21 40.68	+17 36 40.6	2013 TX_{118}	21.4	V	H21
2013 TX_{226}	*2013 10 07.33774	00 35 54.58	+04 17 58.3	2013 SD_{83}	20.7	V	703
2013 TX_{226}	2013 10 07.34100	00 35 54.34	+04 17 56.7	2013 SD_{83}	20.2	V	703
2013 TX_{226}	2013 10 07.34744	00 35 54.01	+04 17 56.6	2013 SD_{83}	20.5	V	703
2013 TX_{226}	2013 10 07.35066	00 35 53.78	+04 17 56.7	2013 SD_{83}	20.6	V	703
2013 TX_{226}	2013 10 07.35391	00 35 53.58	+04 17 56.0	2013 SD_{83}	20.7	V	703
2013 TY_{226}	*2013 10 12.25802	00 47 49.52	+01 17 58.4	2013 TT_{36}	20.2	V	G96
2013 TY_{226}	2013 10 12.26559	00 47 49.12	+01 17 57.6	2013 TT_{36}	20.6	V	G96
2013 TY_{226}	2013 10 12.27324	00 47 48.70	+01 17 57.3	2013 TT_{36}	20.4	V	G96
2013 TY_{226}	2013 10 12.28088	00 47 48.27	+01 17 56.6	2013 TT_{36}	20.6	V	G96
2013 TZ_{226}	*2013 10 13.18801	01 06 46.17	+05 40 13.0	2013 TR_{91}	20.5	V	G96
2013 TZ_{226}	2013 10 13.19551	01 06 45.74	+05 40 11.4	2013 TR_{91}	21.4	V	G96
2013 TZ_{226}	2013 10 13.20322	01 06 45.33	+05 40 09.3	2013 TR_{91}	21.1	V	G96
2013 TA_{227}	*2013 10 07.33701	04 24 06.60	+19 18 30.4	2013 TF_{158}			695
2013 TA_{227}	2013 10 07.46039	04 24 06.35	+19 18 21.7	2013 TF_{158}			695
2013 TK_{229}	*2013 10 07.11440	21 16 08.50	−21 11 38.9	2004 OL_{14}	24.3	R	695
2013 TK_{229}	2013 10 07.18449	21 16 08.32	−21 11 40.8	2004 OL_{14}			695
2013 VC_{71}	*2013 11 04.30753	02 45 18.21	+12 56 26.8	2013 TQ_{30}	20.2	V	G96
2013 VC_{71}	2013 11 04.31220	02 45 17.90	+12 56 26.8	2013 TQ_{30}	20.5	V	G96
2013 VC_{71}	2013 11 04.31689	02 45 17.63	+12 56 26.2	2013 TQ_{30}	20.8	V	G96
2013 VC_{71}	2013 11 04.32157	02 45 17.38	+12 56 25.8	2013 TQ_{30}	20.2	V	G96
2013 WS_{138}	*2013 11 28.23553	03 59 17.29	+22 58 19.7	2013 WW_{8}	20.7	V	G96
2013 WS_{138}	2013 11 28.24249	03 59 16.90	+22 58 19.8	2013 WW_{8}	20.7	V	G96
2013 WS_{138}	2013 11 28.24946	03 59 16.51	+22 58 19.8	2013 WW_{8}	20.5	V	G96
2013 WS_{138}	2013 11 28.25644	03 59 16.11	+22 58 19.8	2013 WW_{8}	20.7	V	G96
2013 WT_{138}	*2013 11 29.27692	03 52 06.34	+19 34 37.4	2013 WG_{34}	21.1	V	G96
2013 WT_{138}	2013 11 29.29160	03 52 05.46	+19 34 34.0	2013 WG_{34}	21.6	V	G96
2013 WT_{138}	2013 11 29.29830	03 52 05.09	+19 34 32.1	2013 WG_{34}	21.1	V	G96
2013 XX_{39}	*2013 12 01.211993	04 26 16.65	+23 45 00.7	2013 WS_{91}	20.2	V	H21
2013 XX_{39}	2013 12 01.225179	04 26 15.78	+23 44 57.0	2013 WS_{91}	19.4		H21
2013 XX_{39}	2013 12 01.238148	04 26 14.78	+23 44 53.2	2013 WS_{91}	20.2		H21
2013 XY_{39}	*2013 12 03.06544	02 41 06.08	+16 13 37.3	2013 WJ_{69}			691
2013 XY_{39}	2013 12 03.07886	02 41 05.63	+16 13 34.8	2013 WJ_{69}			691
2013 XY_{39}	2013 12 03.09228	02 41 05.16	+16 13 33.2	2013 WJ_{69}			691
2013 XZ_{39}	*2013 12 03.29407	04 05 58.214	+21 51 34.86	2013 WW_{70}	21.1	w	F51
2013 XZ_{39}	2013 12 03.30820	04 05 57.452	+21 51 32.58	2013 WW_{70}	21.2	w	F51
2013 XZ_{39}	2013 12 03.32231	04 05 56.679	+21 51 30.22	2013 WW_{70}	21.1	w	F51
2013 XZ_{39}	2013 12 03.33651	04 05 55.915	+21 51 28.02	2013 WW_{70}	21.2	w	F51
2013 XA_{40}	*2013 12 02.83376	04 21 26.31	+14 34 48.1	2013 WL_{74}	21.0		D03
2013 XA_{40}	2013 12 02.84112	04 21 25.92	+14 34 45.4	2013 WL_{74}	20.9		D03
2013 XA_{40}	2013 12 02.84855	04 21 25.38	+14 34 43.9	2013 WL_{74}	20.5		D03
2013 XB_{40}	*2013 12 03.24449	04 24 19.98	+18 40 17.2	2013 WD_{83}	20.4	V	G96
2013 XB_{40}	2013 12 03.24969	04 24 19.71	+18 40 17.0	2013 WD_{83}	20.9	V	G96
2013 XB_{40}	2013 12 03.25490	04 24 19.40	+18 40 17.6	2013 WD_{83}	20.8	V	G96
2013 XB_{40}	2013 12 03.26011	04 24 19.09	+18 40 17.4	2013 WD_{83}	20.5	V	G96
2013 XC_{40}	*2013 12 03.15320	04 56 51.63	+25 11 04.4	2013 WT_{97}			691
2013 XC_{40}	2013 12 03.17788	04 56 49.87	+25 11 03.9	2013 WT_{97}			691
2013 XC_{40}	2013 12 03.19563	04 56 48.65	+25 11 03.9	2013 WT_{97}			691
2013 XD_{40}	*2013 12 03.15320	04 54 28.62	+25 00 52.1	2013 WB_{98}			691
2013 XD_{40}	2013 12 03.17788	04 54 27.05	+25 00 47.4	2013 WB_{98}			691
2013 XD_{40}	2013 12 03.19563	04 54 25.97	+25 00 43.7	2013 WB_{98}			691
2013 XE_{40}	*2013 12 03.29605	04 17 57.988	+27 00 37.56	2013 WE_{102}	21.1	w	F51
2013 XE_{40}	2013 12 03.31017	04 17 57.151	+27 00 38.11	2013 WE_{102}	21.1	w	F51
2013 XE_{40}	2013 12 03.32431	04 17 56.320	+27 00 38.24	2013 WE_{102}	21.0	w	F51
2013 XE_{40}	2013 12 03.33848	04 17 55.482	+27 00 38.60	2013 WE_{102}	21.3	w	F51
2013 XF_{40}	*2013 12 11.26378	05 09 56.47	+23 39 51.3	2013 XQ_{14}	20.0	V	G96
2013 XF_{40}	2013 12 11.26936	05 09 56.14	+23 39 50.8	2013 XQ_{14}	19.8	V	G96
2013 XF_{40}	2013 12 11.27495	05 09 55.78	+23 39 50.4	2013 XQ_{14}	19.7	V	G96
2013 XF_{40}	2013 12 11.28053	05 09 55.46	+23 39 50.0	2013 XQ_{14}	20.4	V	G96
2013 XG_{40}	*2013 12 11.26378	05 10 03.54	+23 46 10.4	2013 XR_{14}	20.7	V	G96
2013 XG_{40}	2013 12 11.26936	05 10 03.18	+23 46 09.9	2013 XR_{14}	20.5	V	G96
2013 XG_{40}	2013 12 11.27495	05 10 02.90	+23 46 09.7	2013 XR_{14}	20.9	V	G96
2013 XG_{40}	2013 12 11.28053	05 10 02.57	+23 46 08.9	2013 XR_{14}	20.9	V	G96
2013 XH_{40}	*2013 12 11.26685	04 55 51.64	+23 20 09.1	2013 XO_{15}	20.3	V	G96
2013 XH_{40}	2013 12 11.27244	04 55 51.28	+23 20 10.0	2013 XO_{15}	20.3	V	G96
2013 XH_{40}	2013 12 11.27802	04 55 50.89	+23 20 10.4	2013 XO_{15}	20.5	V	G96
2013 XH_{40}	2013 12 11.28360	04 55 50.51	+23 20 11.1	2013 XO_{15}	20.5	V	G96
2013 YU_{168}	*2013 12 28.21973	07 26 16.38	+23 53 37.8	2013 YK_{26}	21.5	V	691
2013 YU_{168}	2013 12 28.23751	07 26 15.24	+23 53 35.6	2013 YK_{26}	21.1	V	691
2013 YU_{168}	2013 12 28.25528	07 26 14.10	+23 53 34.3	2013 YK_{26}	21.5	V	691

2013 YV_{168}	*2013 12 31.23563	04 57 41.14	+22 58 33.4	2013 YS_{48}	20.8	V	G96
2013 YV_{168}	2013 12 31.24468	04 57 40.69	+22 58 35.0	2013 YS_{48}	20.4	V	G96
2013 YV_{168}	2013 12 31.25373	04 57 40.26	+22 58 37.0	2013 YS_{48}	20.2	V	G96
2013 YV_{168}	2013 12 31.26279	04 57 39.80	+22 58 38.7	2013 YS_{48}	20.3	V	G96
2013 YW_{168}	*2013 12 31.31213	07 12 36.77	+29 21 21.0	2013 YB_{59}	21.7	V	G96
2013 YW_{168}	2013 12 31.31815	07 12 36.48	+29 21 22.1	2013 YB_{59}	21.3	V	G96
2013 YW_{168}	2013 12 31.32418	07 12 36.09	+29 21 23.4	2013 YB_{59}	21.6	V	G96
2013 YW_{168}	2013 12 31.33022	07 12 35.78	+29 21 25.0	2013 YB_{59}	22.0	V	G96
2014 AD_{75}	*2014 01 01.48319	07 48 41.35	+22 14 47.3	2013 YF_{105}	21.3	R	290
2014 AD_{75}	2014 01 01.49634	07 48 40.58	+22 14 50.3	2013 YF_{105}	21.4	R	290
2014 AD_{75}	2014 01 01.50019	07 48 40.36	+22 14 51.0	2013 YF_{105}	21.3	R	290
2014 AD_{75}	2014 01 01.50402	07 48 40.18	+22 14 51.9	2013 YF_{105}	21.2	R	290
2014 AD_{75}	2014 01 01.50785	07 48 39.94	+22 14 53.0	2013 YF_{105}	21.1	R	290
2014 AD_{75}	2014 01 01.51168	07 48 39.78	+22 14 53.9	2013 YF_{105}	21.4	R	290
2014 AD_{75}	2014 01 01.51551	07 48 39.54	+22 14 54.8	2013 YF_{105}	21.6	R	290
2014 AE_{75}	*2014 01 07.33726	09 43 54.30	+18 40 28.8	2013 YQ_{116}	19.7	r	G45
2014 AE_{75}	2014 01 07.34909	09 43 53.94	+18 40 34.3	2013 YQ_{116}	19.7	r	G45
2014 AF_{75}	*2014 01 07.18883	05 06 25.16	+23 22 04.8	2013 YL_{141}	20.9	V	G96
2014 AF_{75}	2014 01 07.19406	05 06 24.97	+23 22 04.9	2013 YL_{141}	20.8	V	G96
2014 AF_{75}	2014 01 07.19929	05 06 24.79	+23 22 05.3	2013 YL_{141}	20.9	V	G96
2014 AF_{75}	2014 01 07.20452	05 06 24.58	+23 22 05.6	2013 YL_{141}	20.9	V	G96
2014 AG_{75}	*2014 01 07.18883	05 06 32.70	+23 40 55.9	2013 YM_{141}	21.2	V	G96
2014 AG_{75}	2014 01 07.19929	05 06 32.29	+23 40 55.8	2013 YM_{141}	20.9	V	G96
2014 AG_{75}	2014 01 07.20452	05 06 32.12	+23 40 56.3	2013 YM_{141}	19.9	V	G96
2014 AH_{75}	*2014 01 07.27737	07 09 57.23	+26 11 00.0	2014 AK_{17}	20.9	V	G96
2014 AH_{75}	2014 01 07.28309	07 09 56.84	+26 11 00.8	2014 AK_{17}	20.6	V	G96
2014 AH_{75}	2014 01 07.28883	07 09 56.40	+26 11 02.4	2014 AK_{17}	20.3	V	G96
2014 AH_{75}	2014 01 07.29455	07 09 55.97	+26 11 03.7	2014 AK_{17}	21.0	V	G96
2014 AJ_{75}	*2014 01 07.27686	07 12 42.63	+25 20 13.2	2014 AO_{17}	21.5	V	G96
2014 AJ_{75}	2014 01 07.28258	07 12 42.24	+25 20 14.3	2014 AO_{17}	21.1	V	G96
2014 AJ_{75}	2014 01 07.28831	07 12 41.82	+25 20 14.5	2014 AO_{17}	21.2	V	G96
2014 AJ_{75}	2014 01 07.29404	07 12 41.46	+25 20 15.3	2014 AO_{17}	20.9	V	G96
2014 AK_{75}	*2014 01 09.18377	07 15 14.62	+21 28 59.0	2014 AM_{33}	20.1	V	G96
2014 AK_{75}	2014 01 09.18904	07 15 14.28	+21 28 58.7	2014 AM_{33}	20.3	V	G96
2014 AK_{75}	2014 01 09.19432	07 15 13.98	+21 28 58.6	2014 AM_{33}	20.0	V	G96
2014 AK_{75}	2014 01 09.19959	07 15 13.64	+21 28 58.5	2014 AM_{33}	20.4	V	G96
2014 AL_{75}	*2014 01 10.27423	08 08 32.94	+16 48 43.1	2014 AU_{42}	21.1	V	G96
2014 AL_{75}	2014 01 10.28018	08 08 32.58	+16 48 44.0	2014 AU_{42}	22.0	V	G96
2014 AL_{75}	2014 01 10.28613	08 08 32.27	+16 48 43.8	2014 AU_{42}	21.8	V	G96
2014 AL_{75}	2014 01 10.29209	08 08 32.00	+16 48 43.7	2014 AU_{42}	21.1	V	G96
2014 BD_{86}	*2014 01 25.39372	09 29 49.576	+13 00 43.95	2013 YZ_{68}	21.7	w	F51
2014 BD_{86}	2014 01 25.40528	09 29 48.954	+13 00 43.84	2013 YZ_{68}	21.9	w	F51
2014 BD_{86}	2014 01 25.42828	09 29 47.761	+13 00 43.88	2013 YZ_{68}	21.6	w	F51
2014 BE_{86}	*2014 01 29.23049	07 53 18.32	+27 22 38.7	2014 BC_{45}	21.3	V	G96
2014 BE_{86}	2014 01 29.23562	07 53 18.03	+27 22 39.9	2014 BC_{45}	22.1	V	G96
2014 BE_{86}	2014 01 29.24074	07 53 17.69	+27 22 42.0	2014 BC_{45}	21.4	V	G96
2014 BE_{86}	2014 01 29.24589	07 53 17.44	+27 22 42.2	2014 BC_{45}	21.4	V	G96
2014 BF_{86}	*2014 01 29.19344	07 41 42.94	+21 07 55.1	2014 BN_{46}	21.3	V	G96
2014 BF_{86}	2014 01 29.19851	07 41 42.61	+21 07 55.4	2014 BN_{46}	21.2	V	G96
2014 BF_{86}	2014 01 29.20359	07 41 42.38	+21 07 57.0	2014 BN_{46}	21.3	V	G96
2014 BF_{86}	2014 01 29.20866	07 41 42.13	+21 07 58.2	2014 BN_{46}	21.6	V	G96
2014 BH_{86}	*2014 01 21.33490	07 49 20.43	+19 36 16.7	2008 SO_{261}	20.9	V	G96
2014 BH_{86}	2014 01 21.34099	07 49 20.02	+19 36 17.4	2008 SO_{261}	20.4	V	G96
2014 BH_{86}	2014 01 21.34707	07 49 19.67	+19 36 18.5	2008 SO_{261}	21.2	V	G96
2014 BH_{86}	2014 01 21.35318	07 49 19.28	+19 36 19.4	2008 SO_{261}	20.4	V	G96
2014 DK_{188}	*2014 02 27.25042	09 19 12.37	+13 50 33.0	2014 AW_{55}	21.7	V	G96
2014 DK_{188}	2014 02 27.25553	09 19 12.17	+13 50 34.1	2014 AW_{55}	21.1	V	G96
2014 DK_{188}	2014 02 27.26063	09 19 11.93	+13 50 35.1	2014 AW_{55}	22.3	V	G96
2014 DK_{188}	2014 02 27.26573	09 19 11.72	+13 50 36.9	2014 AW_{55}	21.3	V	G96
2014 DK_{188}	2014 03 20.25898	09 09 08.913	+15 02 20.69	2014 AW_{55}	22.0	w	F51
2014 DK_{188}	2014 03 20.27085	09 09 08.711	+15 02 22.25	2014 AW_{55}	22.1	w	F51
2014 DK_{188}	2014 03 20.28266	09 09 08.527	+15 02 23.65	2014 AW_{55}	21.8	w	F51
2014 DK_{188}	2014 03 20.29609	09 09 08.319	+15 02 25.65	2014 AW_{55}	21.8	w	F51
2014 DL_{188}	*2014 02 22.27030	09 12 08.43	+18 44 41.9	2014 BA_{8}	21.0	V	G96
2014 DL_{188}	2014 02 22.27689	09 12 08.05	+18 44 43.6	2014 BA_{8}	21.0	V	G96
2014 DL_{188}	2014 02 22.28347	09 12 07.74	+18 44 45.2	2014 BA_{8}	20.8	V	G96
2014 DL_{188}	2014 02 22.29004	09 12 07.40	+18 44 47.5	2014 BA_{8}	21.0	V	G96
2014 DM_{188}	*2014 02 27.25242	09 10 09.94	+13 30 29.6	2014 DY_{27}	20.8	V	G96
2014 DM_{188}	2014 02 27.25752	09 10 09.74	+13 30 31.5	2014 DY_{27}	21.0	V	G96
2014 DM_{188}	2014 02 27.26262	09 10 09.55	+13 30 33.3	2014 DY_{27}	20.7	V	G96
2014 DM_{188}	2014 02 27.26772	09 10 09.34	+13 30 34.9	2014 DY_{27}	20.4	V	G96
2014 DN_{188}	*2014 02 28.34948	10 59 13.54	+15 42 29.3	2014 DH_{44}	20.7	V	G96
2014 DN_{188}	2014 02 28.35455	10 59 13.26	+15 42 31.2	2014 DH_{44}	21.0	V	G96
2014 DN_{188}	2014 02 28.35961	10 59 13.02	+15 42 32.3	2014 DH_{44}	20.5	V	G96
2014 DN_{188}	2014 02 28.36468	10 59 12.72	+15 42 34.6	2014 DH_{44}	20.9	V	G96
2014 DO_{188}	*2014 02 26.89077	09 36 48.11	+18 42 46.6	2014 DT_{81}	20.8	V	C95
2014 DO_{188}	2014 02 26.92382	09 36 46.16	+18 42 57.7	2014 DT_{81}	21.0	V	C95
2014 DO_{188}	2014 02 26.95878	09 36 44.18	+18 43 09.4	2014 DT_{81}	20.8	V	C95
2014 DP_{188}	*2014 02 28.39987	11 05 26.918	+06 56 53.78	2014 DG_{94}	20.7	w	F51
2014 DP_{188}	2014 02 28.41225	11 05 26.093	+06 56 55.99	2014 DG_{94}	20.8	w	F51
2014 DP_{188}	2014 02 28.42477	11 05 25.244	+06 56 58.37	2014 DG_{94}	20.7	w	F51
2014 DP_{188}	2014 02 28.43717	11 05 24.407	+06 57 00.50	2014 DG_{94}	20.6	w	F51
2014 DQ_{188}	*2014 02 23.89671	09 51 36.70	+23 16 15.3	2014 DD_{141}	20.2	R	118
2014 DQ_{188}	2014 02 23.92990	09 51 34.70	+23 16 21.3	2014 DD_{141}	20.1	R	118
2014 EQ_{256}	*2014 03 05.33857	10 49 31.27	+01 36 23.4	2014 DY_{114}	20.4	V	703
2014 EQ_{256}	2014 03 05.34359	10 49 30.97	+01 36 24.2	2014 DY_{114}	19.9	V	703
2014 EQ_{256}	2014 03 05.34860	10 49 30.76	+01 36 25.3	2014 DY_{114}	20.5	V	703
2014 EQ_{256}	2014 03 05.35361	10 49 30.49	+01 36 25.5	2014 DY_{114}	21.2	V	703
2014 ER_{256}	*2014 03 05.29447	11 05 24.47	+06 52 05.6	2014 DD_{119}	20.1	V	703
2014 ER_{256}	2014 03 05.30450	11 05 23.84	+06 52 09.1	2014 DD_{119}	20.1	V	703
2014 ER_{256}	2014 03 05.30952	11 05 23.64	+06 52 10.8	2014 DD_{119}	20.6	V	703
2014 ES_{256}	*2014 03 05.37488	12 06 29.52	+02 05 23.0	2014 DF_{120}	20.1	V	703
2014 ES_{256}	2014 03 05.38075	12 06 29.24	+02 05 23.6	2014 DF_{120}	19.9	V	703
2014 ES_{256}	2014 03 05.38658	12 06 28.82	+02 05 26.1	2014 DF_{120}	19.8	V	703
2014 ES_{256}	2014 03 05.39243	12 06 28.53	+02 05 26.1	2014 DF_{120}	20.4	V	703
2014 ET_{256}	*2014 03 10.24263	11 31 20.38	+11 52 35.1	2014 EW_{12}	20.6	V	G96
2014 ET_{256}	2014 03 10.25094	11 31 19.91	+11 52 38.0	2014 EW_{12}	20.4	V	G96
2014 ET_{256}	2014 03 10.25926	11 31 19.48	+11 52 39.8	2014 EW_{12}	20.3	V	G96
2014 ET_{256}	2014 03 10.26757	11 31 19.02	+11 52 42.0	2014 EW_{12}	20.8	V	G96
2014 EU_{256}	*2014 03 11.36543	11 42 38.95	+05 36 49.6	2014 ES_{27}	21.2	V	G96
2014 EU_{256}	2014 03 11.37050	11 42 38.66	+05 36 51.8	2014 ES_{27}	21.7	V	G96
2014 EU_{256}	2014 03 11.37557	11 42 38.42	+05 36 53.5	2014 ES_{27}	21.7	V	G96
2014 EU_{256}	2014 03 11.38064	11 42 38.17	+05 36 55.6	2014 ES_{27}	20.9	V	G96
2014 EV_{256}	*2014 03 12.36309	12 21 36.45	+09 02 49.6	2014 EP_{33}	20.4	V	G96
2014 EV_{256}	2014 03 12.36857	12 21 36.17	+09 02 51.7	2014 EP_{33}	20.8	V	G96
2014 EV_{256}	2014 03 12.37405	12 21 35.91	+09 02 53.6	2014 EP_{33}	20.4	V	G96

2014 EV_{256}	2014 03 12.37953	12 21 35.63	+09 02 56.5	2014 EP_{33}	20.5	V	G96
2014 EW_{256}	*2014 03 14.232940	12 43 31.97	+22 06 54.2	2014 ET_{48}	21.0	V	V37
2014 EW_{256}	2014 03 14.236581	12 43 31.66	+22 06 54.5	2014 ET_{48}	21.2	V	V37
2014 EW_{256}	2014 03 14.240222	12 43 31.32	+22 06 54.5	2014 ET_{48}	21.0	V	V37
2014 EX_{256}	*2014 03 14.175624	12 37 56.77	+19 54 45.1	2014 EV_{48}			V37
2014 EX_{256}	2014 03 14.177192	12 37 56.58	+19 54 45.4	2014 EV_{48}			V37
2014 EX_{256}	2014 03 14.178754	12 37 56.35	+19 54 45.1	2014 EV_{48}	20.7	V	V37
2014 EX_{256}	2014 03 14.180316	12 37 56.19	+19 54 45.3	2014 EV_{48}	20.7	V	V37
2014 EX_{256}	2014 03 14.181874	12 37 56.07	+19 54 44.9	2014 EV_{48}	20.7	V	V37
2014 EX_{256}	2014 03 14.183422	12 37 55.86	+19 54 44.7	2014 EV_{48}	20.4	V	V37
2014 FB_{88}	*2014 03 28.21531	12 17 26.89	+09 29 25.7	2014 DO_{144}	20.9	V	G96
2014 FB_{88}	2014 03 28.21989	12 17 26.61	+09 29 26.0	2014 DO_{144}	21.2	V	G96
2014 FB_{88}	2014 03 28.22443	12 17 26.29	+09 29 26.7	2014 DO_{144}	21.0	V	G96
2014 FB_{88}	2014 03 28.22898	12 17 26.05	+09 29 27.2	2014 DO_{144}	21.6	V	G96
2014 FB_{88}	2014 03 28.23792	12 17 25.58	+09 29 27.7	2014 DO_{144}	20.7	V	G96
2014 FB_{88}	2014 03 28.24249	12 17 25.23	+09 29 28.3	2014 DO_{144}	20.6	V	G96
2014 FB_{88}	2014 03 28.24705	12 17 24.87	+09 29 29.0	2014 DO_{144}	20.1	V	G96
2014 FB_{88}	2014 04 06.26074	12 09 10.00	+09 37 27.0	2014 DO_{144}	20.5	V	G96
2014 FB_{88}	2014 04 06.26570	12 09 09.75	+09 37 27.0	2014 DO_{144}	20.9	V	G96
2014 FB_{88}	2014 04 06.27069	12 09 09.47	+09 37 26.9	2014 DO_{144}	21.6	V	G96
2014 FB_{88}	2014 04 06.27566	12 09 09.18	+09 37 26.8	2014 DO_{144}	21.6	V	G96
2014 FC_{88}	*2014 03 23.26952	11 14 27.03	−02 28 16.8	2014 EQ_{137}	21.0	V	G96
2014 FC_{88}	2014 03 23.27462	11 14 26.81	−02 28 15.4	2014 EQ_{137}	21.2	V	G96
2014 FC_{88}	2014 03 23.27971	11 14 26.62	−02 28 13.5	2014 EQ_{137}	21.2	V	G96
2014 FC_{88}	2014 03 23.28481	11 14 26.40	−02 28 11.8	2014 EQ_{137}	21.1	V	G96
2014 FD_{88}	*2014 03 24.39600	10 56 43.309	−02 26 04.54	2014 EG_{169}	21.1	w	F51
2014 FD_{88}	2014 03 24.40828	10 56 42.755	−02 25 59.82	2014 EG_{169}	21.1	w	F51
2014 FD_{88}	2014 03 24.42058	10 56 42.239	−02 25 55.20	2014 EG_{169}	21.2	w	F51
2014 FD_{88}	2014 03 24.43287	10 56 41.699	−02 25 50.53	2014 EG_{169}	21.3	w	F51
2014 FE_{88}	*2014 03 24.369194	12 00 32.970	+02 57 49.12	2014 FY_7	21.3	R	F51
2014 FE_{88}	2014 03 24.381310	12 00 32.382	+02 57 52.58	2014 FY_7	20.9	R	F51
2014 FE_{88}	2014 03 24.393469	12 00 31.801	+02 57 56.60	2014 FY_7	21.2	R	F51
2014 FF_{88}	*2014 03 31.30032	11 47 48.06	+16 27 54.3	2014 FM_{46}	21.1	V	G96
2014 FF_{88}	2014 03 31.30710	11 47 47.73	+16 27 55.6	2014 FM_{46}	21.2	V	G96
2014 FF_{88}	2014 03 31.31386	11 47 47.38	+16 27 57.0	2014 FM_{46}	21.3	V	G96
2014 FF_{88}	2014 03 31.32063	11 47 47.04	+16 27 59.5	2014 FM_{46}	21.6	V	G96
2014 GH_{87}	*2014 04 02.18404	10 52 41.38	+04 25 03.1	2014 DH_{107}	21.2	V	G96
2014 GH_{87}	2014 04 02.18859	10 52 41.31	+04 25 03.6	2014 DH_{107}	21.0	V	G96
2014 GH_{87}	2014 04 02.19314	10 52 41.05	+04 25 04.3	2014 DH_{107}	21.1	V	G96
2014 GH_{87}	2014 04 02.19768	10 52 40.93	+04 25 04.8	2014 DH_{107}	21.7	V	G96
2014 GJ_{87}	*2014 04 01.22319	10 43 35.71	+05 28 39.6	2014 ET_{91}	21.2	V	G96
2014 GJ_{87}	2014 04 01.22774	10 43 35.54	+05 28 41.4	2014 ET_{91}	21.3	V	G96
2014 GJ_{87}	2014 04 01.23229	10 43 35.40	+05 28 43.2	2014 ET_{91}	21.2	V	G96
2014 GJ_{87}	2014 04 01.23684	10 43 35.30	+05 28 44.3	2014 ET_{91}	21.3	V	G96
2014 GK_{87}	*2014 04 01.19887	10 13 47.99	+11 41 13.8	2014 FQ_{50}	21.0	V	G96
2014 GK_{87}	2014 04 01.20369	10 13 47.86	+11 41 16.0	2014 FQ_{50}	20.8	V	G96
2014 GK_{87}	2014 04 01.20852	10 13 47.75	+11 41 17.4	2014 FQ_{50}	21.4	V	G96
2014 GK_{87}	2014 04 01.21335	10 13 47.66	+11 41 18.9	2014 FQ_{50}	21.0	V	G96
2014 GL_{87}	*2014 04 01.19887	10 16 24.52	+11 54 32.0	2014 FT_{50}	21.2	V	G96
2014 GL_{87}	2014 04 01.20369	10 16 24.41	+11 54 33.4	2014 FT_{50}	22.3	V	G96
2014 GL_{87}	2014 04 01.20852	10 16 24.33	+11 54 34.9	2014 FT_{50}	21.5	V	G96
2014 GL_{87}	2014 04 01.21335	10 16 24.21	+11 54 36.3	2014 FT_{50}	21.0	V	G96
2014 GM_{87}	*2014 04 01.19937	10 10 56.77	+10 21 18.0	2014 FU_{50}	21.3	V	G96
2014 GM_{87}	2014 04 01.20419	10 10 56.66	+10 21 17.7	2014 FU_{50}	21.3	V	G96
2014 GM_{87}	2014 04 01.20902	10 10 56.47	+10 21 17.6	2014 FU_{50}	21.0	V	G96
2014 GM_{87}	2014 04 01.21384	10 10 56.29	+10 21 16.9	2014 FU_{50}	21.5	V	G96
2014 GN_{87}	*2014 04 01.19937	10 14 15.46	+09 57 46.4	2014 FZ_{50}	21.5	V	G96
2014 GN_{87}	2014 04 01.20419	10 14 15.33	+09 57 46.3	2014 FZ_{50}	22.2	V	G96
2014 GN_{87}	2014 04 01.20902	10 14 15.17	+09 57 46.3	2014 FZ_{50}	21.0	V	G96
2014 GN_{87}	2014 04 01.21384	10 14 15.05	+09 57 46.1	2014 FZ_{50}	21.7	V	G96
2014 HT_{232}	*2014 04 23.11392	14 00 33.98	−14 27 11.3	2014 GK_{26}	22.2	V	W84
2014 HT_{232}	2014 04 23.11719	14 00 33.79	−14 27 10.5	2014 GK_{26}			W84
2014 HT_{232}	2014 04 23.12043	14 00 33.59	−14 27 09.6	2014 GK_{26}			W84
2014 HT_{232}	2014 04 23.12367	14 00 33.41	−14 27 08.9	2014 GK_{26}			W84
2014 HT_{232}	2014 04 23.12690	14 00 33.22	−14 27 08.1	2014 GK_{26}			W84
2014 HU_{232}	*2014 04 23.25893	14 24 48.99	−11 05 11.4	2014 GX_{28}	21.0	V	W84
2014 HU_{232}	2014 04 23.26211	14 24 48.84	−11 05 10.4	2014 GX_{28}			W84
2014 HU_{232}	2014 04 23.26530	14 24 48.69	−11 05 09.3	2014 GX_{28}			W84
2014 HU_{232}	2014 04 23.26864	14 24 48.52	−11 05 08.1	2014 GX_{28}			W84
2014 HU_{232}	2014 04 23.27184	14 24 48.36	−11 05 07.0	2014 GX_{28}			W84
2014 HV_{232}	*2014 04 23.06638	13 49 36.50	−09 22 45.6	2014 GF_{31}	22.7	V	W84
2014 HV_{232}	2014 04 23.06954	13 49 36.33	−09 22 44.4	2014 GF_{31}			W84
2014 HV_{232}	2014 04 23.07273	13 49 36.17	−09 22 43.3	2014 GF_{31}			W84
2014 HV_{232}	2014 04 23.07598	13 49 35.99	−09 22 42.1	2014 GF_{31}			W84
2014 HV_{232}	2014 04 23.07923	13 49 35.81	−09 22 41.0	2014 GF_{31}			W84
2014 HW_{232}	*2014 04 23.00214	13 39 46.54	−14 40 36.5	2014 GL_{31}	21.3	V	W84
2014 HW_{232}	2014 04 23.00582	13 39 46.35	−14 40 35.7	2014 GL_{31}			W84
2014 HW_{232}	2014 04 23.00970	13 39 46.16	−14 40 35.2	2014 GL_{31}			W84
2014 HW_{232}	2014 04 23.01286	13 39 46.00	−14 40 34.7	2014 GL_{31}			W84
2014 HW_{232}	2014 04 23.01609	13 39 45.85	−14 40 34.3	2014 GL_{31}			W84
2014 HX_{232}	*2014 04 23.24372	14 30 20.17	−17 21 34.5	2014 GZ_{41}	20.4	V	W84
2014 HX_{232}	2014 04 23.24691	14 30 20.00	−17 21 33.6	2014 GZ_{41}			W84
2014 HX_{232}	2014 04 23.25010	14 30 19.83	−17 21 32.7	2014 GZ_{41}			W84
2014 HX_{232}	2014 04 23.25326	14 30 19.67	−17 21 31.8	2014 GZ_{41}			W84
2014 HX_{232}	2014 04 23.25642	14 30 19.50	−17 21 30.8	2014 GZ_{41}			W84
2014 HY_{232}	*2014 04 24.07078	13 56 28.09	−06 44 43.2	2014 HN_{61}	23.3	V	W84
2014 HY_{232}	2014 04 24.07402	13 56 27.87	−06 44 43.5	2014 HN_{61}			W84
2014 HY_{232}	2014 04 24.07715	13 56 27.68	−06 44 43.8	2014 HN_{61}			W84
2014 HY_{232}	2014 04 24.08035	13 56 27.46	−06 44 44.1	2014 HN_{61}			W84
2014 HY_{232}	2014 04 24.08360	13 56 27.25	−06 44 44.3	2014 HN_{61}			W84
2014 HZ_{232}	*2014 04 24.20078	14 13 30.54	−02 46 00.2	2014 HN_{89}	23.7	V	W84
2014 HZ_{232}	2014 04 24.20397	14 13 30.40	−02 45 59.0	2014 HN_{89}			W84
2014 HZ_{232}	2014 04 24.20718	14 13 30.25	−02 45 57.7	2014 HN_{89}			W84
2014 HZ_{232}	2014 04 24.21037	14 13 30.11	−02 45 56.5	2014 HN_{89}			W84
2014 HA_{233}	*2014 04 24.07238	13 46 47.47	−03 24 47.8	2014 HT_{192}	23.4	V	W84
2014 HA_{233}	2014 04 24.07557	13 46 47.30	−03 24 47.1	2014 HT_{192}			W84
2014 HA_{233}	2014 04 24.07877	13 46 47.15	−03 24 46.4	2014 HT_{192}			W84
2014 HA_{233}	2014 04 24.08199	13 46 46.97	−03 24 45.7	2014 HT_{192}			W84
2014 HB_{233}	*2014 04 24.04225	13 44 14.89	−09 28 16.1	2014 HW_{192}	22.0	V	W84
2014 HB_{233}	2014 04 24.04541	13 44 14.72	−09 28 15.4	2014 HW_{192}			W84
2014 HB_{233}	2014 04 24.04867	13 44 14.54	−09 28 14.6	2014 HW_{192}			W84
2014 HB_{233}	2014 04 24.05192	13 44 14.35	−09 28 13.7	2014 HW_{192}			W84
2014 HC_{233}	*2014 04 24.20078	14 14 31.36	−04 11 52.1	2014 HK_{193}	23.6	V	W84
2014 HC_{233}	2014 04 24.20397	14 14 31.18	−04 11 51.6	2014 HK_{193}			W84
2014 HC_{233}	2014 04 24.20718	14 14 31.00	−04 11 50.8	2014 HK_{193}			W84
2014 HC_{233}	2014 04 24.21037	14 14 30.81	−04 11 50.3	2014 HK_{193}			W84

2014 HC_{233}	2014 04 24.21358	14 14 30.63	−04 11 49.6	2014 HK_{193}			W84
2014 HD_{233}	*2014 04 24.29660	14 25 44.48	−06 50 36.1	2014 HR_{193}	23.6	V	W84
2014 HD_{233}	2014 04 24.29978	14 25 44.32	−06 50 34.9	2014 HR_{193}			W84
2014 HD_{233}	2014 04 24.30293	14 25 44.19	−06 50 34.0	2014 HR_{193}			W84
2014 HD_{233}	2014 04 24.30607	14 25 44.05	−06 50 33.0	2014 HR_{193}			W84
2014 HD_{233}	2014 04 24.30922	14 25 43.90	−06 50 32.0	2014 HR_{193}			W84
2014 HE_{233}	*2014 04 24.31723	14 35 33.24	−07 09 24.4	2014 HX_{193}	23.2	V	W84
2014 HE_{233}	2014 04 24.32040	14 35 33.08	−07 09 23.6	2014 HX_{193}			W84
2014 HE_{233}	2014 04 24.32356	14 35 32.92	−07 09 22.7	2014 HX_{193}			W84
2014 HE_{233}	2014 04 24.32672	14 35 32.76	−07 09 21.7	2014 HX_{193}			W84
2014 HF_{233}	*2014 04 24.07181	13 54 04.90	−04 51 42.2	2014 JF_{20}	22.3		W84
2014 HF_{233}	2014 04 24.07503	13 54 04.68	−04 51 41.5	2014 JF_{20}			W84
2014 HF_{233}	2014 04 24.07818	13 54 04.48	−04 51 40.9	2014 JF_{20}			W84
2014 HF_{233}	2014 04 24.08142	13 54 04.26	−04 51 40.2	2014 JF_{20}			W84
2014 HF_{233}	2014 04 24.08465	13 54 04.05	−04 51 39.5	2014 JF_{20}			W84
2014 HL_{233}	*2014 04 25.13567	14 09 48.60	−17 10 49.2	2006 BG_{88}	22.9		W84
2014 HL_{233}	2014 04 25.13889	14 09 48.43	−17 10 48.2	2006 BG_{88}			W84
2014 HL_{233}	2014 04 25.14212	14 09 48.25	−17 10 47.6	2006 BG_{88}			W84
2014 HL_{233}	2014 04 25.14850	14 09 47.90	−17 10 45.9	2006 BG_{88}			W84
2014 JO_{125}	*2014 05 03.26797	13 57 19.88	−04 25 26.1	2014 HD_{84}	20.7	V	G96
2014 JO_{125}	2014 05 03.27301	13 57 19.58	−04 25 25.8	2014 HD_{84}	21.2	V	G96
2014 JO_{125}	2014 05 03.28317	13 57 18.98	−04 25 26.9	2014 HD_{84}	20.8	V	G96
2014 JP_{125}	*2014 05 07.36159	14 24 55.834	−05 41 13.60	2014 HV_{108}	21.1	i	F51
2014 JP_{125}	2014 05 07.37418	14 24 55.252	−05 41 10.76	2014 HV_{108}	20.8	i	F51
2014 JP_{125}	2014 05 07.38677	14 24 54.706	−05 41 08.23	2014 HV_{108}	21.0	i	F51
2014 JQ_{125}	*2014 05 07.36093	14 19 59.027	−07 01 09.90	2014 HJ_{157}	21.2	i	F51
2014 JQ_{125}	2014 05 07.37352	14 19 58.380	−07 01 08.09	2014 HJ_{157}	21.1	i	F51
2014 JQ_{125}	2014 05 07.38612	14 19 57.721	−07 01 06.68	2014 HJ_{157}	21.2	i	F51
2014 JR_{125}	*2014 05 04.44378	14 58 38.017	−14 01 15.89	2014 JG_3	20.4	w	F51
2014 JR_{125}	2014 05 04.45573	14 58 37.260	−14 01 14.56	2014 JG_3	20.4	w	F51
2014 JR_{125}	2014 05 04.46766	14 58 36.511	−14 01 13.24	2014 JG_3	20.6	w	F51
2014 JR_{125}	2014 05 04.47959	14 58 35.766	−14 01 11.78	2014 JG_3	20.3	w	F51
2014 LV_{39}	*2014 06 02.41674	21 12 46.08	−13 58 46.3	2014 PX_7	21.0	V	G96
2014 LV_{39}	2014 06 02.42300	21 12 46.40	−13 58 45.1	2014 PX_7	20.9	V	G96
2014 LV_{39}	2014 06 02.42925	21 12 46.70	−13 58 43.5	2014 PX_7	20.8	V	G96
2014 LV_{39}	2014 06 02.43547	21 12 47.02	−13 58 42.0	2014 PX_7	21.1	V	G96
2014 MU_{98}	*2014 06 16.24910	15 42 52.45	−12 41 50.6	2014 JP_{34}	19.9	V	G96
2014 MU_{98}	2014 06 16.25372	15 42 52.23	−12 41 50.9	2014 JP_{34}	20.1	V	G96
2014 MU_{98}	2014 06 16.25833	15 42 52.03	−12 41 51.0	2014 JP_{34}	20.0	V	G96
2014 MU_{98}	2014 06 16.26294	15 42 51.83	−12 41 51.5	2014 JP_{34}	20.1	V	G96
2014 MU_{98}	2014 06 18.17858	15 41 37.34	−12 43 30.1	2014 JP_{34}			691
2014 MU_{98}	2014 06 18.20525	15 41 36.26	−12 43 32.0	2014 JP_{34}			691
2014 MU_{98}	2014 06 18.23191	15 41 35.18	−12 43 33.8	2014 JP_{34}			691
2014 MV_{98}	*2014 06 28.20694	19 34 16.38	−27 23 51.9	2014 MZ_{22}	19.7	R	G32
2014 MV_{98}	2014 06 28.21118	19 34 16.18	−27 23 53.5	2014 MZ_{22}	19.7	R	G32
2014 MV_{98}	2014 06 28.21965	19 34 15.72	−27 23 56.7	2014 MZ_{22}	19.8	R	G32
2014 MW_{98}	*2014 06 22.48543	20 20 54.684	−13 20 55.60	2014 NN_{25}	21.2	w	F51
2014 MW_{98}	2014 06 22.49832	20 20 54.308	−13 20 52.80	2014 NN_{25}	21.1	w	F51
2014 MW_{98}	2014 06 22.51124	20 20 53.875	−13 20 50.29	2014 NN_{25}	21.2	w	F51
2014 MW_{98}	2014 06 22.52411	20 20 53.469	−13 20 47.31	2014 NN_{25}	21.0	w	F51
2014 MX_{98}	*2014 06 26.50076	21 02 32.267	−22 30 10.86	2014 OJ_{177}	20.9	w	F51
2014 MX_{98}	2014 06 26.51294	21 02 32.080	−22 30 17.52	2014 OJ_{177}	20.8	w	F51
2014 MX_{98}	2014 06 26.52513	21 02 31.882	−22 30 24.52	2014 OJ_{177}	20.7	w	F51
2014 ND_{91}	*2014 07 02.49856	20 59 48.810	−15 33 16.72	2014 OG_{146}	21.0	w	F51
2014 ND_{91}	2014 07 02.52548	20 59 47.927	−15 33 18.62	2014 OG_{146}	21.5	w	F51
2014 ND_{91}	2014 07 02.53894	20 59 47.487	−15 33 18.26	2014 OG_{146}	21.5	w	F51
2014 OU_{457}	*2014 07 29.41893	20 08 02.262	−25 31 05.48	2014 OL_{153}	21.5	w	F51
2014 OU_{457}	2014 07 29.43018	20 08 01.525	−25 31 05.97	2014 OL_{153}	21.4	w	F51
2014 OU_{457}	2014 07 29.44142	20 08 00.783	−25 31 07.02	2014 OL_{153}	21.8	w	F51
2014 OV_{457}	*2014 07 29.40635	20 04 42.934	−31 28 34.47	2014 OD_{157}	21.6	w	F51
2014 OV_{457}	2014 07 29.40899	20 04 42.761	−31 28 34.88	2014 OD_{157}	21.6	w	F51
2014 OV_{457}	2014 07 29.41761	20 04 42.181	−31 28 36.39	2014 OD_{157}	21.5	w	F51
2014 OV_{457}	2014 07 29.42025	20 04 42.013	−31 28 36.42	2014 OD_{157}	21.6	w	F51
2014 OV_{457}	2014 07 29.43150	20 04 41.229	−31 28 38.15	2014 OD_{157}	21.7	w	F51
2014 OV_{457}	2014 07 29.44010	20 04 40.647	−31 28 39.14	2014 OD_{157}	21.5	w	F51
2014 OV_{457}	2014 07 29.44274	20 04 40.465	−31 28 39.87	2014 OD_{157}	21.6	w	F51
2014 OW_{457}	*2014 07 29.42025	20 06 54.592	−30 05 17.03	2014 OL_{157}	21.1	w	F51
2014 OW_{457}	2014 07 29.43150	20 06 53.837	−30 05 19.55	2014 OL_{157}	21.3	w	F51
2014 OW_{457}	2014 07 29.44274	20 06 53.105	−30 05 22.14	2014 OL_{157}	21.2	w	F51
2014 OX_{457}	*2014 07 29.41031	20 20 15.661	−26 12 45.03	2014 OQ_{161}	21.9	w	F51
2014 OX_{457}	2014 07 29.42156	20 20 14.964	−26 12 47.66	2014 OQ_{161}	21.5	w	F51
2014 OX_{457}	2014 07 29.43282	20 20 14.274	−26 12 50.23	2014 OQ_{161}	21.4	w	F51
2014 OX_{457}	2014 07 29.44406	20 20 13.589	−26 12 52.50	2014 OQ_{161}	21.2	w	F51
2014 OY_{457}	*2014 07 29.41692	20 46 39.409	−23 51 32.65	2014 OV_{173}	20.5	w	F51
2014 OY_{457}	2014 07 29.42817	20 46 38.763	−23 51 33.14	2014 OV_{173}	20.7	w	F51
2014 OY_{457}	2014 07 29.43943	20 46 38.151	−23 51 33.70	2014 OV_{173}	20.7	w	F51
2014 OY_{457}	2014 07 29.45066	20 46 37.512	−23 51 34.08	2014 OV_{173}	20.7	w	F51
2014 OZ_{457}	*2014 07 29.41692	20 49 49.295	−24 20 23.31	2014 OS_{174}	21.4	w	F51
2014 OZ_{457}	2014 07 29.42817	20 49 48.539	−24 20 26.97	2014 OS_{174}	21.3	w	F51
2014 OZ_{457}	2014 07 29.43943	20 49 47.795	−24 20 30.99	2014 OS_{174}	21.4	w	F51
2014 OZ_{457}	2014 07 29.45066	20 49 47.029	−24 20 34.77	2014 OS_{174}	21.5	w	F51
2014 OA_{458}	*2014 07 29.40833	20 14 27.131	−27 19 29.37	2014 OU_{175}	20.4	w	F51
2014 OA_{458}	2014 07 29.41958	20 14 26.472	−27 19 31.27	2014 OU_{175}	20.5	w	F51
2014 OA_{458}	2014 07 29.43084	20 14 25.817	−27 19 33.17	2014 OU_{175}	20.5	w	F51
2014 OA_{458}	2014 07 29.44208	20 14 25.170	−27 19 35.03	2014 OU_{175}	20.6	w	F51
2014 OB_{458}	*2014 07 30.43044	20 10 14.540	−30 22 43.36	2014 OK_{217}	21.2	w	F51
2014 OB_{458}	2014 07 30.44185	20 10 13.832	−30 22 42.20	2014 OK_{217}	21.1	w	F51
2014 OB_{458}	2014 07 30.45326	20 10 13.117	−30 22 40.91	2014 OK_{217}	20.9	w	F51
2014 OB_{458}	2014 07 30.46468	20 10 12.422	−30 22 39.40	2014 OK_{217}	21.1	w	F51
2014 OC_{458}	*2014 07 30.43176	20 19 10.476	−26 15 35.08	2014 OK_{218}	21.2	w	F51
2014 OC_{458}	2014 07 30.43241	20 19 10.446	−26 15 35.15	2014 OK_{218}	21.3	w	F51
2014 OC_{458}	2014 07 30.44317	20 19 09.766	−26 15 37.14	2014 OK_{218}	21.2	w	F51
2014 OC_{458}	2014 07 30.44383	20 19 09.726	−26 15 37.26	2014 OK_{218}	21.3	w	F51
2014 OC_{458}	2014 07 30.45458	20 19 09.053	−26 15 39.28	2014 OK_{218}	21.4	w	F51
2014 OC_{458}	2014 07 30.45524	20 19 09.029	−26 15 39.24	2014 OK_{218}	21.1	w	F51
2014 OC_{458}	2014 07 30.46666	20 19 08.313	−26 15 41.62	2014 OK_{218}	21.1	w	F51
2014 OD_{458}	*2014 07 30.48439	20 56 44.847	−31 33 35.29	2014 OC_{222}	20.9	w	F51
2014 OD_{458}	2014 07 30.49520	20 56 44.263	−31 33 36.90	2014 OC_{222}	20.9	w	F51
2014 OD_{458}	2014 07 30.50599	20 56 43.670	−31 33 38.36	2014 OC_{222}	20.9	w	F51
2014 OE_{458}	*2014 07 30.39037	20 54 14.579	−24 11 21.19	2014 OW_{314}	21.4	w	F51
2014 OE_{458}	2014 07 30.40227	20 54 13.875	−24 11 23.24	2014 OW_{314}	21.2	w	F51
2014 OE_{458}	2014 07 30.41418	20 54 13.170	−24 11 25.46	2014 OW_{314}	21.4	w	F51
2014 OE_{458}	2014 07 30.42611	20 54 12.464	−24 11 27.22	2014 OW_{314}	21.5	w	F51
2014 OF_{458}	*2014 07 31.45811	21 34 13.242	−20 17 19.24	2014 OT_{316}	20.0	w	F51
2014 OF_{458}	2014 07 31.46997	21 34 12.707	−20 17 25.78	2014 OT_{316}	20.1	w	F51
2014 OF_{458}	2014 07 31.49372	21 34 11.624	−20 17 38.88	2014 OT_{316}	19.9	w	F51

2014 QX_{559}	*2014 08 22.30549	20 00 21.492	−34 36 12.73	2014 MW_{70}	21.4	w	F51
2014 QX_{559}	2014 08 22.31729	20 00 21.041	−34 36 10.06	2014 MW_{70}	21.7	w	F51
2014 QX_{559}	2014 08 22.32908	20 00 20.620	−34 36 07.83	2014 MW_{70}	21.7	w	F51
2014 QX_{559}	2014 08 22.34084	20 00 20.219	−34 36 05.61	2014 MW_{70}	21.8	w	F51
2014 QX_{559}	2014 08 22.34294	20 00 20.144	−34 36 05.13	2014 MW_{70}	21.7	w	F51
2014 QX_{559}	2014 08 22.35120	20 00 19.833	−34 36 03.62	2014 MW_{70}	21.4	w	F51
2014 QX_{559}	2014 08 22.35944	20 00 19.549	−34 36 01.67	2014 MW_{70}	21.6	w	F51
2014 QX_{559}	2014 08 22.36773	20 00 19.237	−34 35 59.73	2014 MW_{70}	21.5	w	F51
2014 QY_{559}	*2014 08 20.42500	22 22 50.974	−09 35 14.99	2014 PG_{28}	21.4	w	F51
2014 QY_{559}	2014 08 20.43784	22 22 50.247	−09 35 18.39	2014 PG_{28}	21.3	w	F51
2014 QY_{559}	2014 08 20.45069	22 22 49.520	−09 35 21.79	2014 PG_{28}	21.3	w	F51
2014 QY_{559}	2014 08 20.46357	22 22 48.774	−09 35 25.23	2014 PG_{28}	21.4	w	F51
2014 QZ_{559}	*2014 08 27.38575	21 25 22.415	−15 16 57.27	2014 PJ_{79}	21.6	w	F51
2014 QZ_{559}	2014 08 27.39937	21 25 21.793	−15 17 01.74	2014 PJ_{79}	21.5	w	F51
2014 QZ_{559}	2014 08 27.41298	21 25 21.169	−15 17 06.06	2014 PJ_{79}	21.6	w	F51
2014 QZ_{559}	2014 08 27.42660	21 25 20.507	−15 17 10.55	2014 PJ_{79}	21.5	w	F51
2014 QA_{560}	*2014 08 21.35338	21 39 24.583	+00 02 00.87	2014 QO_{88}	21.7	w	F51
2014 QA_{560}	2014 08 21.37908	21 39 23.405	+00 01 53.37	2014 QO_{88}	21.5	w	F51
2014 QA_{560}	2014 08 21.39198	21 39 22.802	+00 01 49.80	2014 QO_{88}	21.7	w	F51
2014 QB_{560}	*2014 08 27.48237	00 40 46.490	−03 03 11.85	2014 QA_{302}	21.5	w	F51
2014 QB_{560}	2014 08 27.49375	00 40 46.191	−03 03 15.53	2014 QA_{302}	21.3	w	F51
2014 QB_{560}	2014 08 27.50518	00 40 45.882	−03 03 19.14	2014 QA_{302}	21.2	w	F51
2014 QB_{560}	2014 08 27.51659	00 40 45.581	−03 03 22.68	2014 QA_{302}	21.3	w	F51
2014 QC_{560}	*2014 08 30.34585	22 34 23.78	−13 01 11.8	2014 QW_{478}	20.2	V	G96
2014 QC_{560}	2014 08 30.35301	22 34 23.44	−13 01 14.8	2014 QW_{478}	21.5	V	G96
2014 QC_{560}	2014 08 30.36011	22 34 23.13	−13 01 18.7	2014 QW_{478}	20.8	V	G96
2014 QC_{560}	2014 08 30.36728	22 34 22.69	−13 01 21.1	2014 QW_{478}	20.5	V	G96
2014 RX_{85}	*2014 09 02.30360	23 23 30.90	−08 27 54.4	2014 QP_{482}	20.8	V	G96
2014 RX_{85}	2014 09 02.30930	23 23 30.65	−08 27 56.1	2014 QP_{482}	20.2	V	G96
2014 RX_{85}	2014 09 02.31499	23 23 30.40	−08 27 58.7	2014 QP_{482}	20.6	V	G96
2014 RX_{85}	2014 09 02.32068	23 23 30.14	−08 28 00.3	2014 QP_{482}	20.7	V	G96
2014 RY_{85}	*2014 09 01.30906	22 44 57.63	−12 00 58.6	2014 RE_{7}	19.9	V	G96
2014 RY_{85}	2014 09 01.31371	22 44 57.45	−12 01 00.3	2014 RE_{7}	20.6	V	G96
2014 RY_{85}	2014 09 01.31837	22 44 57.21	−12 01 01.6	2014 RE_{7}	20.2	V	G96
2014 RY_{85}	2014 09 01.32303	22 44 56.96	−12 01 03.1	2014 RE_{7}	20.0	V	G96
2014 RZ_{85}	*2014 09 14.01200	22 11 49.83	−22 58 35.9	2014 RJ_{40}	21.5	R	954
2014 RZ_{85}	2014 09 14.01453	22 11 49.73	−22 58 36.4	2014 RJ_{40}	21.6	R	954
2014 RZ_{85}	2014 09 14.01706	22 11 49.68	−22 58 36.8	2014 RJ_{40}	21.3	R	954
2014 SA_{402}	*2014 09 18.38388	22 29 31.595	−17 49 53.85	2014 MG_{17}	19.9	w	F51
2014 SA_{402}	2014 09 18.39508	22 29 31.189	−17 49 58.69	2014 MG_{17}	20.0	w	F51
2014 SA_{402}	2014 09 18.40627	22 29 30.789	−17 50 03.50	2014 MG_{17}	19.9	w	F51
2014 SA_{402}	2014 09 18.41745	22 29 30.392	−17 50 08.36	2014 MG_{17}	20.0	w	F51
2014 SA_{402}	2014 09 20.33076	22 28 27.686	−18 03 40.24	2014 MG_{17}	19.9	w	F51
2014 SA_{402}	2014 09 20.34196	22 28 27.304	−18 03 44.81	2014 MG_{17}	19.9	w	F51
2014 SA_{402}	2014 09 20.35586	22 28 26.830	−18 03 50.61	2014 MG_{17}	20.0	w	F51
2014 SA_{402}	2014 09 20.36705	22 28 26.451	−18 03 55.25	2014 MG_{17}	20.0	w	F51
2014 SB_{402}	*2014 09 20.48087	00 26 51.510	+03 51 18.77	2014 RM_{42}	21.0	w	F51
2014 SB_{402}	2014 09 20.49244	00 26 50.884	+03 51 15.15	2014 RM_{42}	21.1	w	F51
2014 SB_{402}	2014 09 20.50394	00 26 50.267	+03 51 11.38	2014 RM_{42}	21.1	w	F51
2014 SC_{402}	*2014 09 20.48416	00 37 22.936	+06 03 07.09	2014 RR_{56}	21.3	w	F51
2014 SC_{402}	2014 09 20.49573	00 37 22.492	+06 03 02.50	2014 RR_{56}	21.3	w	F51
2014 SC_{402}	2014 09 20.50723	00 37 22.032	+06 02 57.90	2014 RR_{56}	21.4	w	F51
2014 SC_{402}	2014 09 20.51873	00 37 21.591	+06 02 53.57	2014 RR_{56}	21.4	w	F51
2014 SD_{402}	*2014 09 20.48482	00 38 12.826	+03 18 40.59	2014 RO_{58}	21.5	w	F51
2014 SD_{402}	2014 09 20.49638	00 38 12.246	+03 18 37.77	2014 RO_{58}	21.5	w	F51
2014 SD_{402}	2014 09 20.50789	00 38 11.668	+03 18 34.85	2014 RO_{58}	21.3	w	F51
2014 SD_{402}	2014 09 20.51938	00 38 11.090	+03 18 31.79	2014 RO_{58}	21.4	w	F51
2014 SE_{402}	*2014 09 20.48284	00 37 29.129	+02 12 12.13	2014 RC_{59}	22.1	w	F51
2014 SE_{402}	2014 09 20.50591	00 37 28.084	+02 12 04.78	2014 RC_{59}	22.2	w	F51
2014 SE_{402}	2014 09 20.51741	00 37 27.567	+02 12 01.11	2014 RC_{59}	22.2	w	F51
2014 SF_{402}	*2014 09 19.33536	23 55 07.395	−01 07 05.92	2014 SM_{24}	21.3	w	F51
2014 SF_{402}	2014 09 19.34681	23 55 06.863	−01 07 09.43	2014 SM_{24}	21.4	w	F51
2014 SF_{402}	2014 09 19.35823	23 55 06.323	−01 07 12.65	2014 SM_{24}	21.3	w	F51
2014 SF_{402}	2014 09 19.36969	23 55 05.771	−01 07 15.83	2014 SM_{24}	21.2	w	F51
2014 SG_{402}	*2014 09 20.33274	22 32 40.591	−24 33 15.47	2014 SL_{78}	21.2	w	F51
2014 SG_{402}	2014 09 20.34394	22 32 40.102	−24 33 14.29	2014 SL_{78}	21.1	w	F51
2014 SG_{402}	2014 09 20.35783	22 32 39.468	−24 33 12.55	2014 SL_{78}	21.0	w	F51
2014 SG_{402}	2014 09 20.36902	22 32 38.965	−24 33 11.30	2014 SL_{78}	21.3	w	F51
2014 SH_{402}	*2014 09 27.29604	00 13 43.53	+06 09 33.8	2014 SK_{93}	21.4	V	G96
2014 SH_{402}	2014 09 27.30215	00 13 43.31	+06 09 31.9	2014 SK_{93}	21.3	V	G96
2014 SH_{402}	2014 09 27.30825	00 13 43.00	+06 09 29.1	2014 SK_{93}	21.6	V	G96
2014 SH_{402}	2014 09 27.31436	00 13 42.72	+06 09 27.5	2014 SK_{93}	21.6	V	G96
2014 SJ_{402}	*2014 09 24.29081	01 39 13.69	+04 29 23.8	2014 SB_{234}	21.4	V	691
2014 SJ_{402}	2014 09 24.31114	01 39 12.88	+04 29 21.0	2014 SB_{234}	21.2	V	691
2014 SJ_{402}	2014 09 24.33149	01 39 12.14	+04 29 17.2	2014 SB_{234}	21.4	V	691
2014 SK_{402}	*2014 09 25.30092	00 04 27.00	+00 23 48.9	2014 SS_{258}	21.2	V	G96
2014 SK_{402}	2014 09 25.30549	00 04 26.77	+00 23 47.0	2014 SS_{258}	20.9	V	G96
2014 SK_{402}	2014 09 25.31006	00 04 26.59	+00 23 45.7	2014 SS_{258}	20.8	V	G96
2014 SL_{402}	*2014 09 27.29753	00 06 13.94	+03 56 09.2	2014 SN_{267}	21.8	V	G96
2014 SL_{402}	2014 09 27.30364	00 06 13.58	+03 56 08.1	2014 SN_{267}	21.4	V	G96
2014 SL_{402}	2014 09 27.30974	00 06 13.27	+03 56 07.9	2014 SN_{267}	21.0	V	G96
2014 SL_{402}	2014 09 27.31585	00 06 12.88	+03 56 06.0	2014 SN_{267}	21.2	V	G96
2014 SM_{402}	*2014 09 27.35838	00 29 25.88	+02 47 11.6	2014 SQ_{274}	21.2	V	G96
2014 SM_{402}	2014 09 27.36513	00 29 25.51	+02 47 10.5	2014 SQ_{274}	21.3	V	G96
2014 SM_{402}	2014 09 27.37189	00 29 25.11	+02 47 09.5	2014 SQ_{274}	21.1	V	G96
2014 SM_{402}	2014 09 27.37864	00 29 24.75	+02 47 08.3	2014 SQ_{274}	20.8	V	G96
2014 SN_{402}	*2014 09 27.26470	00 20 36.68	+05 05 26.3	2014 SA_{275}	20.7	V	G96
2014 SN_{402}	2014 09 27.27166	00 20 36.19	+05 05 25.8	2014 SA_{275}	20.7	V	G96
2014 SN_{402}	2014 09 27.27862	00 20 35.78	+05 05 26.4	2014 SA_{275}	20.6	V	G96
2014 SN_{402}	2014 09 27.28558	00 20 35.34	+05 05 26.2	2014 SA_{275}	21.2	V	G96
2014 SO_{402}	*2014 09 27.29405	00 22 01.87	+05 02 44.8	2014 SC_{275}	19.5	V	G96
2014 SO_{402}	2014 09 27.30015	00 22 01.51	+05 02 44.4	2014 SC_{275}	21.1	V	G96
2014 SO_{402}	2014 09 27.30626	00 22 01.14	+05 02 43.0	2014 SC_{275}	20.8	V	G96
2014 SO_{402}	2014 09 27.31236	00 22 00.74	+05 02 41.4	2014 SC_{275}	20.4	V	G96
2014 SP_{402}	*2014 09 27.29405	00 25 01.80	+05 22 22.0	2014 SJ_{275}	20.8	V	G96
2014 SP_{402}	2014 09 27.30015	00 25 01.56	+05 22 19.4	2014 SJ_{275}	20.8	V	G96
2014 SP_{402}	2014 09 27.30626	00 25 01.25	+05 22 16.6	2014 SJ_{275}	20.4	V	G96
2014 SP_{402}	2014 09 27.31236	00 25 01.05	+05 22 13.8	2014 SJ_{275}	21.0	V	G96
2014 SQ_{402}	*2014 09 27.29405	00 23 58.55	+05 12 47.8	2014 SV_{277}	21.1	V	G96
2014 SQ_{402}	2014 09 27.30015	00 23 58.23	+05 12 47.8	2014 SV_{277}	21.0	V	G96
2014 SQ_{402}	2014 09 27.30626	00 23 57.77	+05 12 47.3	2014 SV_{277}	21.2	V	G96
2014 SQ_{402}	2014 09 27.31236	00 23 57.44	+05 12 46.6	2014 SV_{277}	21.2	V	G96
2014 TO_{114}	*2014 10 01.43528	00 04 31.896	+01 40 09.91	2014 SA_{325}	21.6	w	F51
2014 TO_{114}	2014 10 01.44680	00 04 31.332	+01 40 06.82	2014 SA_{325}	21.6	w	F51
2014 TO_{114}	2014 10 01.45830	00 04 30.769	+01 40 03.51	2014 SA_{325}	21.2	w	F51
2014 TO_{114}	2014 10 01.46985	00 04 30.190	+01 40 00.37	2014 SA_{325}	21.6	w	F51

2014 TP_{114}	*2014 10 03.27603	01 17 14.62	+09 56 52.9	2014 SR_{334}	20.9	V	G96
2014 TP_{114}	2014 10 03.28326	01 17 14.30	+09 56 50.9	2014 SR_{334}	20.0	V	G96
2014 TP_{114}	2014 10 03.29050	01 17 13.91	+09 56 49.0	2014 SR_{334}	20.7	V	G96
2014 TP_{114}	2014 10 03.29772	01 17 13.47	+09 56 47.1	2014 SR_{334}	21.1	V	G96
2014 TQ_{114}	*2014 10 05.40487	02 09 46.53	+12 02 40.9	2014 TK_{23}	21.3	V	G96
2014 TQ_{114}	2014 10 05.41392	02 09 46.14	+12 02 40.5	2014 TK_{23}	20.6	V	G96
2014 TQ_{114}	2014 10 05.42512	02 09 45.59	+12 02 40.1	2014 TK_{23}	20.4	V	G96
2014 UR_{275}	*2014 10 28.37275	00 22 38.243	−06 48 39.70	2014 SZ_{351}	21.1	w	F51
2014 UR_{275}	2014 10 28.39707	00 22 37.611	−06 48 42.99	2014 SZ_{351}	21.1	w	F51
2014 UR_{275}	2014 10 28.40922	00 22 37.305	−06 48 44.23	2014 SZ_{351}	21.0	w	F51
2014 UR_{275}	2014 11 21.26289	00 22 48.544	−06 14 12.27	2014 SZ_{351}	21.8	w	F51
2014 UR_{275}	2014 11 21.26685	00 22 48.636	−06 14 11.28	2014 SZ_{351}	21.7	w	F51
2014 UR_{275}	2014 11 21.27574	00 22 48.818	−06 14 08.70	2014 SZ_{351}	21.5	w	F51
2014 UR_{275}	2014 11 21.28862	00 22 49.091	−06 14 04.98	2014 SZ_{351}	21.7	w	F51
2014 UR_{275}	2014 11 21.29260	00 22 49.177	−06 14 04.24	2014 SZ_{351}	21.8	w	F51
2014 UR_{275}	2014 11 21.30153	00 22 49.355	−06 14 01.36	2014 SZ_{351}	21.4	w	F51
2014 UR_{275}	2014 11 21.30548	00 22 49.448	−06 14 00.37	2014 SZ_{351}	21.9	w	F51
2014 US_{275}	*2014 10 20.33684	01 32 43.32	+12 45 55.7	2014 TX_{80}	20.7	V	G96
2014 US_{275}	2014 10 20.34296	01 32 42.95	+12 45 54.9	2014 TX_{80}	20.4	V	G96
2014 US_{275}	2014 10 20.34908	01 32 42.64	+12 45 53.2	2014 TX_{80}	20.4	V	G96
2014 US_{275}	2014 10 20.35520	01 32 42.32	+12 45 52.5	2014 TX_{80}	20.4	V	G96
2014 UT_{275}	*2014 10 24.34917	01 58 17.15	+05 39 48.2	2014 UX_{35}	20.5	V	G96
2014 UT_{275}	2014 10 24.35610	01 58 16.74	+05 39 46.2	2014 UX_{35}	19.6	V	G96
2014 UT_{275}	2014 10 24.36303	01 58 16.28	+05 39 45.3	2014 UX_{35}	20.6	V	G96
2014 UT_{275}	2014 10 24.36996	01 58 15.90	+05 39 43.6	2014 UX_{35}	21.1	V	G96
2014 UU_{275}	*2014 10 24.35017	01 53 25.21	+06 39 13.6	2014 UL_{37}	20.8	V	G96
2014 UU_{275}	2014 10 24.35710	01 53 24.78	+06 39 11.0	2014 UL_{37}	21.4	V	G96
2014 UU_{275}	2014 10 24.36403	01 53 24.43	+06 39 08.2	2014 UL_{37}	21.0	V	G96
2014 UU_{275}	2014 10 24.37096	01 53 24.05	+06 39 05.9	2014 UL_{37}	20.8	V	G96
2014 UV_{275}	*2014 10 24.35067	01 55 18.51	+05 41 37.7	2014 UH_{38}	20.9	V	G96
2014 UV_{275}	2014 10 24.35760	01 55 18.12	+05 41 37.0	2014 UH_{38}	20.5	V	G96
2014 UV_{275}	2014 10 24.36453	01 55 17.76	+05 41 35.7	2014 UH_{38}	20.6	V	G96
2014 UV_{275}	2014 10 24.37145	01 55 17.38	+05 41 34.5	2014 UH_{38}	20.6	V	G96
2014 UW_{275}	*2014 10 24.35067	01 55 23.38	+05 47 51.2	2014 UK_{38}	20.1	V	G96
2014 UW_{275}	2014 10 24.35760	01 55 23.00	+05 47 50.4	2014 UK_{38}	20.5	V	G96
2014 UW_{275}	2014 10 24.36453	01 55 22.65	+05 47 49.0	2014 UK_{38}	20.5	V	G96
2014 UW_{275}	2014 10 24.37145	01 55 22.32	+05 47 48.3	2014 UK_{38}	20.1	V	G96
2014 UX_{275}	*2014 10 25.28631	02 05 25.00	+06 23 54.4	2014 UK_{59}	21.4	V	G96
2014 UX_{275}	2014 10 25.29240	02 05 24.66	+06 23 53.2	2014 UK_{59}	21.8	V	G96
2014 UX_{275}	2014 10 25.29848	02 05 24.43	+06 23 51.8	2014 UK_{59}	21.6	V	G96
2014 UX_{275}	2014 10 25.30458	02 05 24.05	+06 23 50.5	2014 UK_{59}	21.5	V	G96
2014 UY_{275}	*2014 10 25.28581	02 05 02.65	+06 42 36.4	2014 UM_{59}	19.8	V	G96
2014 UY_{275}	2014 10 25.29190	02 05 02.25	+06 42 35.8	2014 UM_{59}	19.8	V	G96
2014 UY_{275}	2014 10 25.29799	02 05 01.87	+06 42 35.4	2014 UM_{59}	19.9	V	G96
2014 UY_{275}	2014 10 25.30408	02 05 01.45	+06 42 34.6	2014 UM_{59}	19.7	V	G96
2014 UZ_{275}	*2014 10 25.28581	02 06 03.70	+06 40 52.4	2014 UQ_{59}	20.2	V	G96
2014 UZ_{275}	2014 10 25.29190	02 06 03.33	+06 40 49.9	2014 UQ_{59}	20.6	V	G96
2014 UZ_{275}	2014 10 25.29799	02 06 03.00	+06 40 47.8	2014 UQ_{59}	20.3	V	G96
2014 UZ_{275}	2014 10 25.30408	02 06 02.67	+06 40 45.7	2014 UQ_{59}	20.6	V	G96
2014 UA_{276}	*2014 10 25.28481	02 08 17.03	+06 15 59.1	2014 US_{59}	20.7	V	G96
2014 UA_{276}	2014 10 25.29090	02 08 16.67	+06 15 57.2	2014 US_{59}	20.5	V	G96
2014 UA_{276}	2014 10 25.29699	02 08 16.38	+06 15 55.3	2014 US_{59}	20.3	V	G96
2014 UA_{276}	2014 10 25.30308	02 08 16.05	+06 15 53.1	2014 US_{59}	20.3	V	G96
2014 UB_{276}	*2014 10 25.28581	02 04 01.47	+07 23 03.8	2014 UP_{60}	21.1	V	G96
2014 UB_{276}	2014 10 25.29190	02 04 01.12	+07 23 02.0	2014 UP_{60}	20.9	V	G96
2014 UB_{276}	2014 10 25.29799	02 04 00.88	+07 23 00.3	2014 UP_{60}	20.9	V	G96
2014 UB_{276}	2014 10 25.30408	02 04 00.59	+07 22 58.6	2014 UP_{60}	20.6	V	G96
2014 UC_{276}	*2014 10 25.58542	03 39 19.165	+16 47 30.91	2014 UN_{62}	21.0	w	F51
2014 UC_{276}	2014 10 25.59733	03 39 18.625	+16 47 28.72	2014 UN_{62}	21.1	w	F51
2014 UC_{276}	2014 10 25.60919	03 39 18.106	+16 47 26.91	2014 UN_{62}	20.9	w	F51
2014 UD_{276}	*2014 10 25.40185	02 06 47.74	+14 25 57.9	2014 UR_{73}	21.8	V	G96
2014 UD_{276}	2014 10 25.40887	02 06 47.37	+14 25 56.7	2014 UR_{73}	21.1	V	G96
2014 UD_{276}	2014 10 25.41590	02 06 46.97	+14 25 53.7	2014 UR_{73}	21.4	V	G96
2014 UD_{276}	2014 10 25.42292	02 06 46.56	+14 25 52.1	2014 UR_{73}	20.2	V	G96
2014 UE_{276}	*2014 10 25.40234	02 08 01.10	+13 49 16.4	2014 UA_{74}	21.1	V	G96
2014 UE_{276}	2014 10 25.40937	02 08 00.82	+13 49 12.7	2014 UA_{74}	20.1	V	G96
2014 UE_{276}	2014 10 25.41640	02 08 00.39	+13 49 11.0	2014 UA_{74}	20.9	V	G96
2014 UE_{276}	2014 10 25.42341	02 08 00.03	+13 49 08.5	2014 UA_{74}	20.9	V	G96
2014 UF_{276}	*2014 10 28.49676	02 47 34.827	+29 19 50.12	2014 UB_{122}	21.3	w	F51
2014 UF_{276}	2014 10 28.50986	02 47 34.117	+29 19 48.54	2014 UB_{122}	21.3	w	F51
2014 UF_{276}	2014 10 28.52293	02 47 33.378	+29 19 46.56	2014 UB_{122}	21.3	w	F51
2014 UG_{276}	*2014 10 30.15797	02 30 25.73	+10 36 30.9	2014 UK_{177}			691
2014 UG_{276}	2014 10 30.17831	02 30 24.83	+10 36 22.8	2014 UK_{177}			691
2014 UG_{276}	2014 10 30.19866	02 30 23.94	+10 36 14.9	2014 UK_{177}			691
2014 UH_{276}	*2014 10 30.10312	01 22 30.86	+16 00 32.6	2014 UK_{184}			691
2014 UH_{276}	2014 10 30.13161	01 22 29.55	+16 00 26.3	2014 UK_{184}			691
2014 UH_{276}	2014 10 30.14181	01 22 29.06	+16 00 24.0	2014 UK_{184}			691
2014 UJ_{276}	*2014 10 18.91438	01 19 32.14	+03 02 50.6	2014 UM_{206}	19.3	V	C85
2014 UJ_{276}	2014 10 18.92009	01 19 31.85	+03 02 47.4	2014 UM_{206}	19.7	V	C85
2014 UJ_{276}	2014 10 18.92574	01 19 31.53	+03 02 44.9	2014 UM_{206}	19.5	V	C85
2014 UJ_{276}	2014 10 18.93133	01 19 31.26	+03 02 41.8	2014 UM_{206}	19.4	V	C85
2014 UJ_{276}	2014 10 18.94348	01 19 30.59	+03 02 35.6	2014 UM_{206}	19.4	V	C85
2014 UK_{276}	*2014 10 21.35916	02 02 32.19	+13 32 51.6	2013 GZ_{76}	21.5	V	G96
2014 UK_{276}	2014 10 21.36675	02 02 31.75	+13 32 50.0	2013 GZ_{76}	21.5	V	G96
2014 UK_{276}	2014 10 21.37435	02 02 31.29	+13 32 48.7	2013 GZ_{76}	21.2	V	G96
2014 UK_{276}	2014 10 21.38407	02 02 30.75	+13 32 47.1	2013 GZ_{76}	21.3	V	G96
2014 VH_{43}	*2014 11 01.20194	01 58 55.92	+13 35 37.2	2014 UO_{195}	20.8	V	G96
2014 VH_{43}	2014 11 01.21074	01 58 55.49	+13 35 33.3	2014 UO_{195}	20.2	V	G96
2014 VH_{43}	2014 11 01.21954	01 58 55.02	+13 35 29.3	2014 UO_{195}	20.4	V	G96
2014 VH_{43}	2014 11 01.23119	01 58 54.39	+13 35 25.8	2014 UO_{195}	20.4	V	G96
2014 VJ_{43}	*2014 11 01.30795	03 16 54.48	+19 44 49.1	2014 UR_{197}			691
2014 VJ_{43}	2014 11 01.32844	03 16 53.40	+19 44 45.9	2014 UR_{197}			691
2014 VJ_{43}	2014 11 01.34893	03 16 52.33	+19 44 42.8	2014 UR_{197}			691
2014 WR_{599}	*2014 11 18.24326	02 50 12.68	+08 07 19.1	2014 TU_{36}	21.1	V	G96
2014 WR_{599}	2014 11 18.24475	02 50 12.59	+08 07 18.7	2014 TU_{36}	20.6	V	G96
2014 WR_{599}	2014 11 18.24785	02 50 12.40	+08 07 17.7	2014 TU_{36}	20.8	V	G96
2014 WR_{599}	2014 11 18.24934	02 50 12.39	+08 07 17.0	2014 TU_{36}	20.3	V	G96
2014 WR_{599}	2014 11 18.25242	02 50 12.20	+08 07 16.2	2014 TU_{36}	20.8	V	G96
2014 WR_{599}	2014 11 18.25392	02 50 12.12	+08 07 15.9	2014 TU_{36}	20.1	V	G96
2014 WR_{599}	2014 11 18.25700	02 50 11.92	+08 07 14.5	2014 TU_{36}	20.2	V	G96
2014 WR_{599}	2014 11 18.25850	02 50 11.82	+08 07 13.8	2014 TU_{36}	20.3	V	G96
2014 WR_{599}	2014 11 23.31904	02 45 55.098	+07 42 04.36	2014 TU_{36}	21.5	w	F51
2014 WR_{599}	2014 11 23.33144	02 45 54.440	+07 42 00.82	2014 TU_{36}	21.3	w	F51
2014 WR_{599}	2014 11 23.34385	02 45 53.833	+07 41 57.48	2014 TU_{36}	21.3	w	F51
2014 WR_{599}	2014 11 23.35628	02 45 53.192	+07 41 54.42	2014 TU_{36}	21.6	w	F51
2014 WS_{599}	*2014 11 30.29754	02 34 17.95	+19 38 15.3	2014 UR_{171}	21.3	V	G96

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2015 CO_{79}		2015 02 12.38113	09 26 05.058	+19 00 47.35	2015 BR_{391}	20.9	w	F51	2015 ES_{79}	*2015 03 14.26008	09 27 00.172	+18 01 27.23	2015 BG_{408}	21.5	w	F51
2015 CP_{79}	*2015 02 14.39637	10 25 05.27	+17 28 29.2	2015 BV_{459}	22.3	V	G96	2015 ES_{79}	2015 03 14.27366	09 26 59.738	+18 01 30.38	2015 BG_{408}	21.5	w	F51
2015 CP_{79}	2015 02 14.39933	10 25 05.17	+17 28 30.5	2015 BV_{459}	22.2	V	G96	2015 ES_{79}	2015 03 14.28723	09 26 59.296	+18 01 33.21	2015 BG_{408}	21.6	w	F51
2015 CP_{79}	2015 02 14.40229	10 25 05.00	+17 28 32.1	2015 BV_{459}	21.6	V	G96	2015 ES_{79}	2015 03 14.30077	09 26 58.884	+18 01 36.06	2015 BG_{408}	21.7	w	F51
2015 CP_{79}	2015 02 14.40525	10 25 04.82	+17 28 32.6	2015 BV_{459}	22.0	V	G96	2015 ES_{79}	2015 03 15.24082	09 26 31.373	+18 04 53.36	2015 BG_{408}	21.7	w	F51
2015 CQ_{79}	*2015 02 11.35620	09 52 51.76	+11 19 54.9	2015 CL_{7}	20.5	V	G96	2015 ES_{79}	2015 03 15.25397	09 26 30.966	+18 04 56.18	2015 BG_{408}	21.7	w	F51
2015 CQ_{79}	2015 02 11.36836	09 52 51.16	+11 19 58.7	2015 CL_{7}	20.6	V	G96	2015 ES_{79}	2015 03 15.26677	09 26 30.598	+18 04 58.64	2015 BG_{408}	21.6	w	F51
2015 CQ_{79}	2015 02 11.37445	09 52 50.83	+11 20 01.5	2015 CL_{7}	22.1	V	G96	2015 ES_{79}	2015 03 15.27954	09 26 30.211	+18 05 01.39	2015 BG_{408}	21.7	w	F51
2015 CR_{79}	*2015 02 13.34856	09 52 12.516	+08 49 12.82	2015 CK_{19}	21.2	w	F51	2015 FT_{449}	*2015 03 16.37382	08 51 16.471	+23 56 16.12	2015 BR_{145}	21.8	w	F51
2015 CR_{79}	2015 02 13.36064	09 52 11.874	+08 49 17.37	2015 CK_{19}	20.8	w	F51	2015 FT_{449}	2015 03 16.38614	08 51 16.248	+23 56 15.45	2015 BR_{145}	21.8	w	F51
2015 CR_{79}	2015 02 13.37283	09 52 11.216	+08 49 21.76	2015 CK_{19}	21.5	w	F51	2015 FT_{449}	2015 03 16.41058	08 51 15.827	+23 56 14.91	2015 BR_{145}	21.8	w	F51
2015 CR_{79}	2015 02 13.38500	09 52 10.597	+08 49 25.58	2015 CK_{19}	21.5	w	F51	2015 FT_{449}	2015 03 17.35016	08 51 02.655	+23 55 46.91	2015 BR_{145}	21.8	w	F51
2015 CS_{79}	*2015 02 15.46334	11 08 12.196	+06 46 38.61	2015 CD_{23}	20.9	w	F51	2015 FT_{449}	2015 03 17.36265	08 51 02.449	+23 55 46.33	2015 BR_{145}	22.1	w	F51
2015 CS_{79}	2015 02 15.47660	11 08 11.591	+06 46 41.86	2015 CD_{23}	20.7	w	F51	2015 FT_{449}	2015 03 17.37516	08 51 02.247	+23 55 45.90	2015 BR_{145}	22.0	w	F51
2015 CS_{79}	2015 02 15.48987	11 08 11.029	+06 46 45.24	2015 CD_{23}	20.7	w	F51	2015 FT_{449}	2015 03 17.38775	08 51 02.053	+23 55 45.34	2015 BR_{145}	22.0	w	F51
2015 CT_{79}	*2015 02 13.32614	10 07 10.71	+20 46 13.7	2015 EJ_{67}	21.4	V	G96	2015 FU_{449}	*2015 03 16.37314	08 41 08.405	+22 51 08.54	2015 BV_{324}	21.3	w	F51
2015 CT_{79}	2015 02 13.32922	10 07 10.48	+20 46 15.7	2015 EJ_{67}	21.3	V	G96	2015 FU_{449}	2015 03 16.38547	08 41 08.203	+22 51 06.88	2015 BV_{324}	21.4	w	F51
2015 CT_{79}	2015 02 13.33230	10 07 10.29	+20 46 15.6	2015 EJ_{67}	21.9	V	G96	2015 FU_{449}	2015 03 16.39769	08 41 07.992	+22 51 05.10	2015 BV_{324}	21.4	w	F51
2015 DU_{296}	*2015 02 18.33101	09 03 36.347	+26 32 51.87	2015 BW_{138}	21.6	w	F51	2015 FU_{449}	2015 03 17.34943	08 40 54.046	+22 49 01.08	2015 BV_{324}	21.6	w	F51
2015 DU_{296}	2015 02 18.35624	09 03 35.091	+26 32 59.44	2015 BW_{138}	21.6	w	F51	2015 FU_{449}	2015 03 17.36191	08 40 53.849	+22 48 59.43	2015 BV_{324}	21.6	w	F51
2015 DU_{296}	2015 02 18.36899	09 03 34.456	+26 33 03.37	2015 BW_{138}	21.6	w	F51	2015 FU_{449}	2015 03 17.37440	08 40 53.654	+22 48 57.76	2015 BV_{324}	21.8	w	F51
2015 DV_{296}	*2015 02 27.20778	09 19 39.72	+23 18 29.2	2015 BU_{338}	20.1	V	G96	2015 FV_{449}	*2015 03 16.37314	08 41 24.095	+21 33 11.99	2015 BX_{335}	21.6	w	F51
2015 DV_{296}	2015 02 27.21405	09 19 39.41	+23 18 30.8	2015 BU_{338}	20.4	V	G96	2015 FV_{449}	2015 03 16.38547	08 41 23.859	+21 33 10.41	2015 BX_{335}	21.5	w	F51
2015 DV_{296}	2015 02 27.22033	09 19 39.12	+23 18 31.4	2015 BU_{338}	20.6	V	G96	2015 FV_{449}	2015 03 16.39769	08 41 23.623	+21 33 08.60	2015 BX_{335}	21.7	w	F51
2015 DV_{296}	2015 02 27.22663	09 19 38.81	+23 18 32.6	2015 BU_{338}	20.5	V	G96	2015 FV_{449}	2015 03 16.40991	08 41 23.380	+21 33 06.97	2015 BX_{335}	21.7	w	F51
2015 DW_{296}	*2015 02 18.27363	09 47 54.10	+11 59 41.6	2015 BC_{419}	20.7	V	G96	2015 FW_{449}	*2015 03 24.48468	11 52 00.648	+15 19 13.32	2015 DK_{123}	21.5	w	F51
2015 DW_{296}	2015 02 18.27874	09 47 53.81	+11 59 42.2	2015 BC_{419}	20.9	V	G96	2015 FW_{449}	2015 03 24.49617	11 51 59.865	+15 19 15.38	2015 DK_{123}	21.7	w	F51
2015 DW_{296}	2015 02 18.28385	09 47 53.47	+11 59 41.9	2015 BC_{419}	21.3	V	G96	2015 FW_{449}	2015 03 24.50763	11 51 59.062	+15 19 17.36	2015 DK_{123}	21.3	w	F51
2015 DW_{296}	2015 02 18.28895	09 47 53.11	+11 59 42.1	2015 BC_{419}	20.6	V	G96	2015 FW_{449}	2015 03 25.51012	11 50 52.750	+15 22 15.04	2015 DK_{123}	21.4	w	F51
2015 DX_{296}	*2015 02 19.36470	10 37 12.07	+16 27 04.8	2015 BP_{445}	21.1	V	G96	2015 FW_{449}	2015 03 25.52157	11 50 51.981	+15 22 16.88	2015 DK_{123}	21.6	w	F51
2015 DX_{296}	2015 02 19.36928	10 37 11.81	+16 27 07.1	2015 BP_{445}	20.7	V	G96	2015 FW_{449}	2015 03 25.53304	11 50 51.192	+15 22 18.82	2015 DK_{123}	21.6	w	F51
2015 DX_{296}	2015 02 19.37844	10 37 11.31	+16 27 10.5	2015 BP_{445}	20.3	V	G96	2015 FX_{449}	*2015 03 21.47217	13 01 10.717	−02 13 07.14	2015 FW_{79}	21.8	w	F51
2015 DY_{296}	*2015 02 27.54698	12 45 24.668	−00 51 41.70	2015 BJ_{528}	22.1	w	F51	2015 FX_{449}	2015 03 21.48350	13 01 10.121	−02 13 03.21	2015 FW_{79}	22.0	w	F51
2015 DY_{296}	2015 02 27.54764	12 45 24.638	−00 51 41.73	2015 BJ_{528}	21.9	w	F51	2015 FX_{449}	2015 03 21.49479	13 01 09.536	−02 12 59.27	2015 FW_{79}	22.0	w	F51
2015 DY_{296}	2015 02 27.55951	12 45 24.285	−00 51 40.91	2015 BJ_{528}	21.7	w	F51	2015 FY_{449}	*2015 03 25.50287	11 10 13.147	+10 05 48.35	2015 FP_{262}	21.3	w	F51
2015 DY_{296}	2015 02 27.56017	12 45 24.250	−00 51 40.76	2015 BJ_{528}	22.0	w	F51	2015 FY_{449}	2015 03 25.51434	11 10 12.581	+10 05 50.88	2015 FP_{262}	21.3	w	F51
2015 DY_{296}	2015 02 27.57205	12 45 23.900	−00 51 40.10	2015 BJ_{528}	21.8	w	F51	2015 FY_{449}	2015 03 25.52581	11 10 12.025	+10 05 53.21	2015 FP_{262}	21.4	w	F51
2015 DY_{296}	2015 02 27.57271	12 45 23.857	−00 51 40.00	2015 BJ_{528}	21.8	w	F51	2015 FZ_{449}	*2015 03 25.50077	11 52 51.879	+09 06 34.98	2015 FT_{277}	21.6	w	F51
2015 DY_{296}	2015 02 27.58524	12 45 23.482	−00 51 39.16	2015 BJ_{528}	21.9	w	F51	2015 FZ_{449}	2015 03 25.51223	11 52 51.193	+09 06 37.21	2015 FT_{277}	21.8	w	F51
2015 DZ_{296}	*2015 02 17.39290	11 00 08.814	+07 37 17.38	2015 CY_{63}	21.9	w	F51	2015 FZ_{449}	2015 03 25.52369	11 52 50.539	+09 06 39.14	2015 FT_{277}	21.7	w	F51
2015 DZ_{296}	2015 02 17.40573	11 00 08.210	+07 37 22.65	2015 CY_{63}	21.7	w	F51	2015 FZ_{449}	2015 03 25.53516	11 52 49.873	+09 06 41.57	2015 FT_{277}	21.6	w	F51
2015 DZ_{296}	2015 02 17.41859	11 00 07.573	+07 37 27.83	2015 CY_{63}	22.0	w	F51	2015 FA_{450}	*2015 03 27.46762	13 12 18.357	+00 22 32.00	2015 FH_{316}	21.3	w	F51
2015 DA_{297}	*2015 02 18.31852	10 51 28.00	+19 33 15.9	2015 CM_{66}	20.8	V	G96	2015 FA_{450}	2015 03 27.48273	13 12 17.546	+00 22 36.75	2015 FH_{316}	21.3	w	F51
2015 DA_{297}	2015 02 18.32467	10 51 27.59	+19 33 17.5	2015 CM_{66}	20.7	V	G96	2015 FA_{450}	2015 03 27.50083	13 12 16.583	+00 22 42.28	2015 FH_{316}	21.4	w	F51
2015 DA_{297}	2015 02 18.32978	10 51 27.26	+19 33 18.1	2015 CM_{66}	20.5	V	G96	2015 FA_{450}	2015 03 27.51594	13 12 15.773	+00 22 47.00	2015 FH_{316}	21.2	w	F51
2015 DA_{297}	2015 02 18.33489	10 51 26.89	+19 33 19.5	2015 CM_{66}	20.4	V	G96	2015 FB_{450}	*2015 03 21.43040	12 07 18.043	−10 12 55.41	2015 FA_{392}	22.0	w	F51
2015 DB_{297}	*2015 02 17.40309	10 45 45.901	+15 03 21.88	2015 EY_{68}	21.9	w	F51	2015 FB_{450}	2015 03 21.44093	12 07 17.521	−10 12 50.55	2015 FA_{392}	22.0	w	F51
2015 DB_{297}	2015 02 17.41594	10 45 45.248	+15 03 24.20	2015 EY_{68}	21.7	w	F51	2015 FB_{450}	2015 03 21.46201	12 07 16.424	−10 12 41.15	2015 FA_{392}	21.9	w	F51
2015 DB_{297}	2015 02 17.42890	10 45 44.596	+15 03 26.12	2015 EY_{68}	21.9	w	F51	2015 FC_{450}	*2015 03 24.33887	12 46 25.40	−05 35 30.2	2015 GX_{17}	22.0	V	G96
2015 DC_{297}	*2015 02 20.42545	10 38 57.859	−04 13 37.25	2015 FS_{378}	20.7	w	F51	2015 FC_{450}	2015 03 24.34448	12 46 25.11	−05 35 28.2	2015 GX_{17}	21.7	V	G96
2015 DC_{297}	2015 02 20.43843	10 38 57.215	−04 13 35.40	2015 FS_{378}	20.6	w	F51	2015 FC_{450}	2015 03 24.35009	12 46 24.74	−05 35 25.8	2015 GX_{17}	21.8	V	G96
2015 DC_{297}	2015 02 20.45111	10 38 56.591	−04 13 33.72	2015 FS_{378}	20.5	w	F51	2015 FC_{450}	2015 03 24.35569	12 46 24.43	−05 35 24.1	2015 GX_{17}	21.4	V	G96
2015 DC_{297}	2015 02 20.46380	10 38 55.950	−04 13 32.03	2015 FS_{378}	20.4	w	F51	2015 GY_{67}	*2015 04 13.37916	12 01 59.474	−05 28 46.61	2015 FF_{387}	21.6	w	F51

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2016 BL_{130}		2016 01 16.50392	07 40 11.491	+19 01 19.33	2016 AS_{56}	20.5	w	F51	2016 FK_{81}	*2016 03 19.32652	12 50 15.51	−03 16 28.7	2016 GM_{41}	21.1	V	G96
2016 BM_{130}	*2016 01 17.48003	09 45 03.837	−10 23 14.93	2016 EB	21.3	w	F51	2016 FK_{81}	2016 03 19.33262	12 50 15.28	−03 16 26.2	2016 GM_{41}	21.3	V	G96
2016 BM_{130}	2016 01 17.49132	09 45 03.104	−10 23 23.07	2016 EB	21.2	w	F51	2016 FK_{81}	2016 03 19.33872	12 50 14.95	−03 16 23.7	2016 GM_{41}	21.4	V	G96
2016 BM_{130}	2016 01 17.50269	09 45 02.382	−10 23 31.15	2016 EB	21.1	w	F51	2016 FK_{81}	2016 03 19.34482	12 50 14.83	−03 16 21.8	2016 GM_{41}	21.7	V	G96
2016 BM_{130}	2016 01 17.51401	09 45 01.648	−10 23 39.31	2016 EB	20.9	w	F51	2016 FL_{81}	*2016 03 18.42880	13 09 18.58	−03 35 58.3	2016 GG_{73}	19.9	V	G96
2016 CZ_{384}	*2016 02 05.31580	09 15 01.20	+09 54 10.4	2015 WY_{16}	20.6	V	691	2016 FL_{81}	2016 03 18.43391	13 09 18.39	−03 35 56.7	2016 GG_{73}	19.8	V	G96
2016 CZ_{384}	2016 02 05.31968	09 15 00.98	+09 54 11.1	2015 WY_{16}	20.6	V	691	2016 FL_{81}	2016 03 18.43901	13 09 18.18	−03 35 54.4	2016 GG_{73}	19.9	V	G96
2016 CZ_{384}	2016 02 05.32355	09 15 00.77	+09 54 11.5	2015 WY_{16}	20.8	V	691	2016 FL_{81}	2016 03 18.44412	13 09 17.95	−03 35 52.7	2016 GG_{73}	19.7	V	G96
2016 CA_{385}	*2016 02 11.27927	08 06 13.793	+18 29 54.18	2016 CB_{151}	21.2	w	F51	2016 FM_{81}	*2016 03 31.40214	13 09 34.78	−01 56 12.2	2016 GR_{209}	21.7	V	G96
2016 CA_{385}	2016 02 11.29093	08 06 13.236	+18 29 54.56	2016 CB_{151}	21.3	w	F51	2016 FM_{81}	2016 03 31.40672	13 09 34.51	−01 56 11.0	2016 GR_{209}	21.4	V	G96
2016 CA_{385}	2016 02 11.30284	08 06 12.683	+18 29 54.67	2016 CB_{151}	21.3	w	F51	2016 FM_{81}	2016 03 31.41131	13 09 34.23	−01 56 09.1	2016 GR_{209}	22.5	V	G96
2016 CA_{385}	2016 02 11.31448	08 06 12.131	+18 29 54.88	2016 CB_{151}	21.4	w	F51	2016 FM_{81}	2016 03 31.41588	13 09 33.93	−01 56 07.9	2016 GR_{209}	21.4	V	G96
2016 CB_{385}	*2016 02 10.52395	12 25 54.908	−02 45 30.97	2016 EY_{125}	22.0	w	F51	2016 GN_{308}	*2016 04 13.29182	12 53 20.15	+06 10 55.2	2016 CJ_{266}	20.6	V	703
2016 CB_{385}	2016 02 10.53688	12 25 54.637	−02 45 32.67	2016 EY_{125}	21.9	w	F51	2016 GN_{308}	2016 04 13.29787	12 53 19.79	+06 10 55.0	2016 CJ_{266}	19.8	V	703
2016 CB_{385}	2016 02 10.54986	12 25 54.376	−02 45 34.05	2016 EY_{125}	21.7	w	F51	2016 GN_{308}	2016 04 13.30392	12 53 19.50	+06 10 55.6	2016 CJ_{266}	20.5	V	703
2016 DP_{43}	*2016 02 17.38166	10 06 58.05	+17 35 52.8	2016 CD_{142}	20.7	V	691	2016 GO_{308}	*2016 04 02.41518	13 22 06.258	−02 15 59.18	2016 GN_{67}	22.1	w	F51
2016 DP_{43}	2016 02 17.38507	10 06 57.79	+17 35 53.5	2016 CD_{142}	20.6	V	691	2016 GO_{308}	2016 04 02.42709	13 22 05.662	−02 15 54.91	2016 GN_{67}	22.3	w	F51
2016 DP_{43}	2016 02 17.38848	10 06 57.59	+17 35 54.3	2016 CD_{142}	21.0	V	691	2016 GO_{308}	2016 04 02.43904	13 22 05.042	−02 15 50.18	2016 GN_{67}	22.1	w	F51
2016 EE_{309}	*2016 03 04.53317	13 23 58.746	−08 16 33.41	2016 FL_{28}	22.3	w	F51	2016 GP_{308}	*2016 04 14.17349	12 36 42.00	−01 02 48.6	2016 GG_{253}	22.4	V	G96
2016 EE_{309}	2016 03 04.54555	13 23 58.463	−08 16 31.06	2016 FL_{28}	22.0	w	F51	2016 GP_{308}	2016 04 14.17974	12 36 41.72	−01 02 46.5	2016 GG_{253}	21.9	V	G96
2016 EE_{309}	2016 03 04.55784	13 23 58.190	−08 16 28.88	2016 FL_{28}	22.3	w	F51	2016 GP_{308}	2016 04 14.18600	12 36 41.45	−01 02 45.3	2016 GG_{253}	21.5	V	G96
2016 EF_{309}	*2016 03 13.42919	12 18 57.436	−08 21 39.92	2016 GR_{23}	21.3	w	F51	2016 GP_{308}	2016 04 14.19226	12 36 41.19	−01 02 43.5	2016 GG_{253}	21.6	V	G96
2016 EF_{309}	2016 03 13.44423	12 18 56.806	−08 21 34.55	2016 GR_{23}	21.2	w	F51	2016 HS_{34}	*2016 04 30.35502	14 08 05.42	−15 48 58.4	2016 CF_{275}	21.4	V	G96
2016 EF_{309}	2016 03 13.45930	12 18 56.177	−08 21 29.01	2016 GR_{23}	21.2	w	F51	2016 HS_{34}	2016 04 30.36012	14 08 05.14	−15 48 57.2	2016 CF_{275}	21.3	V	G96
2016 EF_{309}	2016 03 13.47436	12 18 55.545	−08 21 23.40	2016 GR_{23}	21.3	w	F51	2016 HS_{34}	2016 04 30.36523	14 08 04.81	−15 48 56.5	2016 CF_{275}	20.6	V	G96
2016 EG_{309}	*2016 03 02.54583	13 16 53.196	−04 10 20.84	2016 GA_{44}	21.4	r	F51	2016 HS_{34}	2016 04 30.37037	14 08 04.51	−15 48 54.4	2016 CF_{275}	22.2	V	G96
2016 EG_{309}	2016 03 02.55696	13 16 52.966	−04 10 18.58	2016 GA_{44}	21.1	r	F51	2016 HS_{34}	2016 04 30.41069	14 08 02.505	−15 48 44.90	2016 CF_{275}	21.1	w	F51
2016 EG_{309}	2016 03 02.56821	13 16 52.704	−04 10 15.96	2016 GA_{44}	21.4	r	F51	2016 HS_{34}	2016 04 30.42328	14 08 01.764	−15 48 41.96	2016 CF_{275}	21.0	w	F51
2016 EH_{309}	*2016 03 10.46703	13 11 48.581	−08 00 30.43	2016 GJ_{51}	22.0	w	F51	2016 HS_{34}	2016 04 30.43591	14 08 01.038	−15 48 39.10	2016 CF_{275}	21.2	w	F51
2016 EH_{309}	2016 03 10.47886	13 11 48.156	−08 00 27.33	2016 GJ_{51}	22.1	w	F51	2016 HS_{34}	2016 04 30.44852	14 08 00.315	−15 48 36.18	2016 CF_{275}	20.9	w	F51
2016 EH_{309}	2016 03 10.49070	13 11 47.774	−08 00 24.46	2016 GJ_{51}	22.1	w	F51	2016 HS_{34}	2016 05 02.29529	14 06 19.26	−15 41 31.7	2016 CF_{275}	21.8	V	G96
2016 EJ_{309}	*2016 03 04.53317	13 15 37.304	−07 58 12.82	2016 GN_{54}	22.3	w	F51	2016 HS_{34}	2016 05 02.29984	14 06 18.96	−15 41 30.9	2016 CF_{275}			G96
2016 EJ_{309}	2016 03 04.55786	13 15 36.68	−07 58 06.2	2016 GN_{54}	22.4	R	F51	2016 HS_{34}	2016 05 02.30443	14 06 18.70	−15 41 29.5	2016 CF_{275}	21.3	V	G96
2016 EJ_{309}	2016 03 04.57022	13 15 36.37	−07 58 03.1	2016 GN_{54}	22.5	R	F51	2016 HS_{34}	2016 05 02.30899	14 06 18.40	−15 41 28.0	2016 CF_{275}	21.1	V	G96
2016 EK_{309}	*2016 03 04.54555	13 18 03.955	−07 40 28.52	2016 GO_{71}	22.3	w	F51	2016 HS_{34}	2016 05 07.38930	14 01 52.149	−15 22 01.82	2016 CF_{275}	21.1	w	F51
2016 EK_{309}	2016 03 04.55784	13 18 03.659	−07 40 24.85	2016 GO_{71}	22.2	w	F51	2016 HS_{34}	2016 05 07.40035	14 01 51.572	−15 21 59.39	2016 CF_{275}	21.3	w	F51
2016 EK_{309}	2016 03 04.57020	13 18 03.372	−07 40 21.57	2016 GO_{71}	22.3	w	F51	2016 HS_{34}	2016 05 07.41139	14 01 50.985	−15 21 56.88	2016 CF_{275}	21.4	w	F51
2016 EL_{309}	*2016 03 10.47025	13 28 39.135	−04 16 57.49	2016 GU_{87}	22.0	w	F51	2016 JL_{53}	*2016 05 11.22277	12 51 32.35	−03 20 28.1	2016 FU_{36}	20.9	V	G96
2016 EL_{309}	2016 03 10.48210	13 28 38.830	−04 16 55.01	2016 GU_{87}	21.9	w	F51	2016 JL_{53}	2016 05 11.22680	12 51 32.27	−03 20 27.9	2016 FU_{36}	21.4	V	G96
2016 EL_{309}	2016 03 10.49393	13 28 38.528	−04 16 52.22	2016 GU_{87}	21.6	w	F51	2016 JL_{53}	2016 05 11.23084	12 51 32.10	−03 20 26.8	2016 FU_{36}	20.9	V	G96
2016 EM_{309}	*2016 03 11.53180	13 50 27.171	−05 50 35.86	2016 GV_{97}	21.6	w	F51	2016 JL_{53}	2016 05 11.23487	12 51 32.01	−03 20 25.8	2016 FU_{36}	21.6	V	G96
2016 EM_{309}	2016 03 11.54304	13 50 26.897	−05 50 33.72	2016 GV_{97}	21.5	w	F51	2016 JM_{53}	*2016 05 08.319216	14 20 58.78	−10 14 38.6	2016 JF_{17}	21.8	R	705
2016 EM_{309}	2016 03 11.55428	13 50 26.615	−05 50 31.75	2016 GV_{97}	21.9	w	F51	2016 JM_{53}	2016 05 08.320230	14 20 58.74	−10 14 38.7	2016 JF_{17}	21.8	R	705
2016 EN_{309}	*2016 03 04.53317	13 16 14.645	−08 02 31.74	2016 GE_{123}	22.4	w	F51	2016 JM_{53}	2016 05 08.321242	14 20 58.69	−10 14 38.3	2016 JF_{17}	21.8	R	705
2016 EN_{309}	2016 03 04.54555	13 16 14.274	−08 02 29.18	2016 GE_{123}	22.4	w	F51	2016 KX_{13}	*2016 05 30.44695	16 38 30.273	−13 06 33.55	2016 LF_{31}	21.4	r	F51
2016 EN_{309}	2016 03 04.55784	13 16 13.899	−08 02 25.76	2016 GE_{123}	22.2	w	F51	2016 KX_{13}	2016 05 30.45729	16 38 29.691	−13 06 32.79	2016 LF_{31}	21.4	r	F51
2016 EN_{309}	2016 03 04.57020	13 16 13.509	−08 02 22.96	2016 GE_{123}	22.2	w	F51	2016 KX_{13}	2016 05 30.46762	16 38 29.075	−13 06 32.03	2016 LF_{31}	21.4	r	F51
2016 EO_{309}	*2016 03 10.45842	13 24 03.488	−04 23 40.70	2016 GC_{214}	21.6	w	F51	2016 LL_{93}	*2016 06 07.22406	13 56 04.27	−03 04 04.3	2016 CF_{266}	21.2	V	G96
2016 EO_{309}	2016 03 10.47025	13 24 03.128	−04 23 38.36	2016 GC_{214}	21.8	w	F51	2016 LL_{93}	2016 06 07.22973	13 56 04.21	−03 04 03.8	2016 CF_{266}	20.8	V	G96
2016 EO_{309}	2016 03 10.48210	13 24 02.758	−04 23 35.63	2016 GC_{214}	21.8	w	F51	2016 LL_{93}	2016 06 07.23540	13 56 04.10	−03 04 04.6	2016 CF_{266}	20.9	V	G96
2016 FJ_{81}	*2016 03 27.54533	10 12 23.26	+07 06 12.7	2015 XG_{389}	19.8	R	D29	2016 LL_{93}	2016 06 07.24125	13 56 03.95	−03 04 05.0	2016 CF_{266}	21.4	V	G96
2016 FJ_{81}	2016 03 27.56297	10 12 23.08	+07 06 25.5	2015 XG_{389}	20.3	R	D29	2016 NE_{152}	*2016 07 01.98863	16 27 24.36	+04 32 19.8	2016 ME_{3}	17.2		J43
2016 FJ_{81}	2016 03 27.58061	10 12 22.89	+07 06 37.4	2015 XG_{389}	20.6	R	D29	2016 NE_{152}	2016 07 01.99739	16 27 24.16	+04 32 18.7	2016 ME_{3}	17.2		J43

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2016 UQ_{271}	2016 10 26.46952	02 05 52.18	+12 39 18.8	2016 UC_{185}	21.8	i	F51	
2016 UQ_{271}	2016 10 26.48073	02 05 51.41	+12 39 15.9	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 26.50679	02 05 49.64	+12 39 09.8	2016 UC_{185}	22.4	w	F51	
2016 UQ_{271}	2016 10 26.51444	02 05 49.16	+12 39 07.9	2016 UC_{185}	22.2	g	F51	
2016 UQ_{271}	2016 10 26.52557	02 05 48.39	+12 39 05.3	2016 UC_{185}	22.1	w	F51	
2016 UQ_{271}	2016 10 26.53326	02 05 47.88	+12 39 03.7	2016 UC_{185}	22.1	r	F51	
2016 UQ_{271}	2016 10 27.32365	02 04 56.78	+12 35 58.6	2016 UC_{185}	21.9	w	F51	
2016 UQ_{271}	2016 10 27.33022	02 04 56.36	+12 35 57.1	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 27.34369	02 04 55.45	+12 35 54.1	2016 UC_{185}	22.1	w	F51	
2016 UQ_{271}	2016 10 27.35141	02 04 54.94	+12 35 51.9	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 27.36465	02 04 54.03	+12 35 49.1	2016 UC_{185}	21.9	w	F51	
2016 UQ_{271}	2016 10 27.37799	02 04 53.13	+12 35 46.1	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 28.45793	02 03 42.29	+12 31 31.0	2016 UC_{185}	22.1	w	F51	
2016 UQ_{271}	2016 10 28.46454	02 03 41.89	+12 31 29.5	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 28.47113	02 03 41.44	+12 31 27.9	2016 UC_{185}	22.4	w	F51	
2016 UQ_{271}	2016 10 28.48425	02 03 40.55	+12 31 24.9	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 28.49736	02 03 39.66	+12 31 21.8	2016 UC_{185}	22.3	w	F51	
2016 UQ_{271}	2016 10 28.50390	02 03 39.20	+12 31 20.3	2016 UC_{185}	22.2	w	F51	
2016 UQ_{271}	2016 10 28.51057	02 03 38.73	+12 31 18.5	2016 UC_{185}	21.9	w	F51	
2016 UQ_{271}	2016 10 28.51710	02 03 38.29	+12 31 17.1	2016 UC_{185}	22.0	w	F51	
2016 UQ_{271}	2016 10 28.52365	02 03 37.86	+12 31 15.6	2016 UC_{185}	21.8	w	F51	
2016 UQ_{271}	2016 10 28.54982	02 03 36.12	+12 31 08.9	2016 UC_{185}	22.1	w	F51	
2016 UQ_{271}	2016 10 29.28531	02 02 48.64	+12 28 15.1	2016 UC_{185}	22.4	w	F51	
2016 UQ_{271}	2016 10 29.29844	02 02 47.77	+12 28 12.4	2016 UC_{185}	22.1	w	F51	
2016 UQ_{271}	2016 10 29.31810	02 02 46.50	+12 28 07.8	2016 UC_{185}	22.4	w	F51	
2016 UQ_{271}	2016 10 29.35858	02 02 43.72	+12 27 58.4	2016 UC_{185}	22.2	w	F51	
2016 UQ_{271}	2016 10 29.36528	02 02 43.27	+12 27 56.7	2016 UC_{185}	22.2	w	F51	
2016 UQ_{271}	2016 10 29.49484	02 02 34.47	+12 27 25.7	2016 UC_{185}	22.3	w	F51	
2016 UQ_{271}	2016 10 29.51454	02 02 33.13	+12 27 21.2	2016 UC_{185}	22.4	w	F51	
2016 UQ_{271}	2016 10 29.52113	02 02 32.67	+12 27 19.5	2016 UC_{185}	22.3	w	F51	
2016 VH_{50}	*2016 11 05.539830	04 28 42.080	+38 59 56.18	2016 WX_{26}	21.5	G	T12	
2016 VH_{50}	2016 11 05.551384	04 28 41.554	+38 59 56.52	2016 WX_{26}	21.5	G	T12	
2016 VK_{50}	*2016 11 10.33903	02 40 58.137	+13 26 13.25	2016 VZ_{10}	21.8	i	F51	
2016 VK_{50}	2016 11 10.34521	02 40 57.845	+13 26 11.75	2016 VZ_{10}	21.8	i	F51	
2016 VK_{50}	2016 11 10.34831	02 40 57.677	+13 26 10.98	2016 VZ_{10}	21.7	i	F51	
2016 VK_{50}	2016 11 10.35193	02 40 57.505	+13 26 10.43	2016 VZ_{10}	21.7	i	F51	
2016 VK_{50}	2016 11 10.35500	02 40 57.344	+13 26 09.51	2016 VZ_{10}	21.8	i	F51	
2016 VK_{50}	2016 11 10.35807	02 40 57.192	+13 26 08.79	2016 VZ_{10}	21.6	i	F51	
2016 VK_{50}	2016 11 10.36113	02 40 57.022	+13 26 08.12	2016 VZ_{10}	21.8	i	F51	
2016 VL_{50}	*2016 11 08.25451	02 57 00.87	+16 08 15.4	2016 WM_{50}	21.2	V	G96	
2016 VL_{50}	2016 11 08.25688	02 57 00.77	+16 08 14.1	2016 WM_{50}	21.0	V	G96	
2016 VL_{50}	2016 11 08.25925	02 57 00.64	+16 08 14.4	2016 WM_{50}	21.1	V	G96	
2016 VL_{50}	2016 11 08.26204	02 57 00.52	+16 08 11.7	2016 WM_{50}	22.4	V	G96	
2016 VM_{50}	*2016 11 07.34550	03 07 38.80	+19 13 04.1	2016 XQ_7	21.7	V	G96	
2016 VM_{50}	2016 11 07.35685	03 07 38.13	+19 13 01.8	2016 XQ_7	21.8	V	G96	
2016 VM_{50}	2016 11 07.36125	03 07 37.92	+19 12 59.9	2016 XQ_7	21.5	V	G96	
2016 WH_{74}	*2016 11 19.21515	02 01 33.42	+16 45 25.1	2016 UY_{38}	21.3	V	G96	
2016 WH_{74}	2016 11 19.22120	02 01 33.16	+16 45 21.8	2016 UY_{38}	21.2	V	G96	
2016 WH_{74}	2016 11 19.22748	02 01 32.94	+16 45 18.6	2016 UY_{38}	21.2	V	G96	
2016 WH_{74}	2016 11 19.23208	02 01 32.79	+16 45 16.8	2016 UY_{38}	21.0	V	G96	
2016 WJ_{74}	*2016 11 19.25811	02 00 24.09	+09 13 44.7	2016 UG_{120}	21.1	V	G96	
2016 WJ_{74}	2016 11 19.26253	02 00 23.92	+09 13 44.3	2016 UG_{120}	22.3	V	G96	
2016 WJ_{74}	2016 11 19.26696	02 00 23.72	+09 13 44.0	2016 UG_{120}	21.7	V	G96	
2016 WJ_{74}	2016 11 19.27141	02 00 23.52	+09 13 44.7	2016 UG_{120}	21.5	V	G96	
2016 WK_{74}	*2016 11 26.19852	03 00 53.35	+42 11 20.7	2016 WH_{20}	20.6	V	V03	
2016 WK_{74}	2016 11 26.21642	03 00 52.14	+42 11 16.3	2016 WH_{20}	20.6	V	V03	
2016 WL_{74}	*2016 11 28.87275	01 35 31.62	+20 28 02.2	2016 WS_{48}	20.5		J43	
2016 WL_{74}	2016 11 28.88119	01 35 31.46	+20 28 00.4	2016 WS_{48}	20.4		J43	
2016 WL_{74}	2016 11 28.88964	01 35 31.32	+20 27 58.6	2016 WS_{48}	20.5		J43	
2016 WL_{74}	2016 11 28.89816	01 35 31.17	+20 27 56.9	2016 WS_{48}	20.5		J43	
2016 WM_{74}	*2016 11 23.32934	04 27 06.07	+22 17 02.9	2016 WM_{55}	20.7	V	G96	
2016 WM_{74}	2016 11 23.33368	04 27 05.84	+22 17 01.9	2016 WM_{55}	21.1	V	G96	
2016 WM_{74}	2016 11 23.33798	04 27 05.62	+22 17 01.8	2016 WM_{55}	21.1	V	G96	
2016 WM_{74}	2016 11 23.34231	04 27 05.45	+22 17 00.7	2016 WM_{55}	20.8	V	G96	
2016 WM_{74}	2016 12 01.23752	04 20 37.74	+21 55 49.2	2016 WM_{55}	21.7	V	G96	
2016 WM_{74}	2016 12 01.24189	04 20 37.55	+21 55 48.6	2016 WM_{55}	22.0	V	G96	
2016 WM_{74}	2016 12 01.24619	04 20 37.34	+21 55 47.7	2016 WM_{55}	21.0	V	G96	
2016 WM_{74}	2016 12 01.25057	04 20 37.05	+21 55 47.2	2016 WM_{55}	21.9	V	G96	
2016 WN_{74}	*2016 11 30.38719	05 36 20.69	−00 21 36.3	2016 YA_2	20.7	V	G96	
2016 WN_{74}	2016 11 30.39147	05 36 20.44	−00 21 36.9	2016 YA_2	20.6	V	G96	
2016 WN_{74}	2016 11 30.39578	05 36 20.21	−00 21 36.3	2016 YA_2	20.2	V	G96	
2016 WN_{74}	2016 11 30.40004	05 36 20.01	−00 21 37.3	2016 YA_2	20.9	V	G96	
2016 XL_{34}	*2016 12 06.92236	03 45 39.00	+04 11 17.6	2016 XK_{17}	20.7	R	B74	
2016 XL_{34}	2016 12 06.92998	03 45 38.61	+04 11 15.8	2016 XK_{17}	20.4	R	B74	
2016 XL_{34}	2016 12 06.93759	03 45 38.23	+04 11 14.2	2016 XK_{17}	20.5	R	B74	
2016 YD_{29}	*2016 12 25.51812	07 04 35.360	+27 52 35.86	2017 AR_{17}	21.4	w	F51	
2016 YD_{29}	2016 12 25.52843	07 04 34.619	+27 52 37.04	2017 AR_{17}	21.5	w	F51	
2016 YD_{29}	2016 12 25.53873	07 04 33.896	+27 52 37.76	2017 AR_{17}	21.4	w	F51	
2017 AO_{47}	*2017 01 08.28158	08 43 50.37	+20 29 18.3	2017 BX_{40}	21.3	V	G96	
2017 AO_{47}	2017 01 08.28304	08 43 50.29	+20 29 19.3	2017 BX_{40}	22.4	V	G96	
2017 AO_{47}	2017 01 08.28598	08 43 50.17	+20 29 20.5	2017 BX_{40}	20.8	V	G96	
2017 AO_{47}	2017 01 08.28767	08 43 50.02	+20 29 20.4	2017 BX_{40}	21.1	V	G96	
2017 AP_{47}	*2017 01 09.38358	08 50 31.16	+15 33 29.4	2017 BC_{44}	20.6	V	G96	
2017 AP_{47}	2017 01 09.38790	08 50 31.01	+15 33 31.0	2017 BC_{44}	20.5	V	G96	
2017 AP_{47}	2017 01 09.39226	08 50 30.84	+15 33 32.1	2017 BC_{44}	20.4	V	G96	
2017 AQ_{47}	*2017 01 09.38066	09 01 27.87	+17 20 27.7	2017 BJ_{49}	21.0	V	G96	
2017 AQ_{47}	2017 01 09.38499	09 01 27.58	+17 20 27.6	2017 BJ_{49}	21.1	V	G96	
2017 AQ_{47}	2017 01 09.38934	09 01 27.36	+17 20 27.7	2017 BJ_{49}	21.5	V	G96	
2017 AQ_{47}	2017 01 09.39367	09 01 27.13	+17 20 28.6	2017 BJ_{49}	22.0	V	G96	
2017 AR_{47}	*2017 01 07.39933	08 05 39.67	+11 05 20.9	2017 BC_{59}	22.0	V	G96	
2017 AR_{47}	2017 01 07.40994	08 05 39.11	+11 05 20.1	2017 BC_{59}	21.5	V	G96	
2017 AR_{47}	2017 01 07.41596	08 05 38.80	+11 05 19.5	2017 BC_{59}	21.1	V	G96	
2017 AR_{47}	2017 01 07.42029	08 05 38.61	+11 05 19.4	2017 BC_{59}	21.3	V	G96	
2017 AS_{47}	*2017 01 02.54006	09 35 19.484	+04 37 39.63	2017 BN_{86}	21.8	w	F51	
2017 AS_{47}	2017 01 02.55229	09 35 19.198	+04 37 37.62	2017 BN_{86}	21.8	w	F51	
2017 AS_{47}	2017 01 02.56457	09 35 18.874	+04 37 35.39	2017 BN_{86}	21.8	w	F51	
2017 AT_{47}	*2017 01 07.47641	12 21 43.41	−05 48 36.4	2017 FT_{116}	20.3	V	G96	
2017 AT_{47}	2017 01 07.48520	12 21 43.74	−05 48 36.8	2017 FT_{116}	21.1	V	G96	
2017 AT_{47}	2017 01 07.48947	12 21 44.00	−05 48 38.8	2017 FT_{116}	20.8	V	G96	
2017 AT_{47}	2017 01 07.49377	12 21 44.21	−05 48 39.7	2017 FT_{116}	20.4	V	G96	
2017 BK_{190}	*2017 01 28.38062	09 19 44.351	+18 36 38.55	2017 BW_{35}	20.9	w	F51	
2017 BK_{190}	2017 01 28.38138	09 19 44.321	+18 36 38.60	2017 BW_{35}	21.0	w	F51	
2017 BK_{190}	2017 01 28.39295	09 19 43.741	+18 36 41.78	2017 BW_{35}	20.8	w	F51	
2017 BK_{190}	2017 01 28.39371	09 19 43.691	+18 36 42.15	2017 BW_{35}	21.1	w	F51	
2017 BK_{190}	2017 01 28.40517	09 19 43.136	+18 36 45.23	2017 BW_{35}	21.0	w	F51	
2017 BK_{190}	2017 01 28.40591	09 19 43.087	+18 36 45.44	2017 BW_{35}	21.0	w	F51	

2017 BK$_{190}$		2017 01 28.41734	09 19 42.533	+18 36 48.48	2017 BW$_{35}$	21.0	w	F51	2017 DW$_{142}$		2017 02 21.36519	09 45 14.667	+13 21 51.46	2017 DA$_{21}$	21.0	w	F51
2017 BK$_{190}$		2017 01 28.41808	09 19 42.486	+18 36 48.76	2017 BW$_{35}$	21.0	w	F51	2017 DW$_{142}$		2017 02 21.37704	09 45 14.058	+13 21 54.26	2017 DA$_{21}$	21.1	w	F51
2017 BL$_{190}$	*	2017 01 28.49464	08 00 48.379	+16 21 01.63	2017 BA$_{75}$	22.4	w	F51	2017 DX$_{142}$	*	2017 02 21.35349	09 45 09.709	+13 20 35.79	2017 DF$_{24}$	21.1	w	F51
2017 BL$_{190}$		2017 01 28.50754	08 00 47.520	+16 20 59.68	2017 BA$_{75}$	22.5	w	F51	2017 DX$_{142}$		2017 02 21.36519	09 45 09.104	+13 20 38.01	2017 DF$_{24}$	21.0	w	F51
2017 BL$_{190}$		2017 01 28.52052	08 00 46.656	+16 20 57.56	2017 BA$_{75}$	22.2	w	F51	2017 DX$_{142}$		2017 02 21.37704	09 45 08.493	+13 20 40.66	2017 DF$_{24}$	21.1	w	F51
2017 BM$_{190}$	*	2017 01 31.56347	10 03 20.199	+16 23 29.64	2017 DR$_{43}$	21.8	w	F51	2017 DY$_{142}$	*	2017 02 21.33665	09 33 27.389	+10 11 22.24	2017 DV$_{26}$	21.8	w	F51
2017 BM$_{190}$		2017 01 31.57651	10 03 19.520	+16 23 34.24	2017 DR$_{43}$	21.5	w	F51	2017 DY$_{142}$		2017 02 21.34829	09 33 26.788	+10 11 24.44	2017 DV$_{26}$	21.5	w	F51
2017 BM$_{190}$		2017 01 31.58961	10 03 18.805	+16 23 38.75	2017 DR$_{43}$	21.7	w	F51	2017 DY$_{142}$		2017 02 21.36003	09 33 26.181	+10 11 26.70	2017 DV$_{26}$	21.7	w	F51
2017 BQ$_{190}$	*	2017 01 26.50019	10 52 45.701	+01 49 37.02	2018 TV$_{42}$	22.0	w	F51	2017 DY$_{142}$		2017 02 21.37186	09 33 25.636	+10 11 28.77	2017 DV$_{26}$	21.9	w	F51
2017 BQ$_{190}$		2017 01 26.51167	10 52 45.371	+01 49 39.25	2018 TV$_{42}$	22.4	w	F51	2017 DZ$_{142}$	*	2017 02 21.34829	09 24 04.502	+10 08 37.53	2017 DE$_{27}$	21.8	w	F51
2017 BQ$_{190}$		2017 01 26.52324	10 52 45.073	+01 49 40.43	2018 TV$_{42}$	22.2	w	F51	2017 DZ$_{142}$		2017 02 21.37186	09 24 03.381	+10 08 48.77	2017 DE$_{27}$	21.4	w	F51
2017 CS$_{45}$	*	2017 02 04.51799	09 08 54.530	+25 17 36.74	2017 BQ$_{130}$	21.4	w	F51	2017 DA$_{143}$	*	2017 02 21.33665	09 23 15.062	+09 44 01.04	2017 DJ$_{27}$	21.9	w	F51
2017 CS$_{45}$		2017 02 04.53053	09 08 53.828	+25 17 40.49	2017 BQ$_{130}$	21.4	w	F51	2017 DA$_{143}$		2017 02 21.34829	09 23 14.449	+09 44 03.59	2017 DJ$_{27}$	21.7	w	F51
2017 CS$_{45}$		2017 02 04.54305	09 08 53.113	+25 17 44.09	2017 BQ$_{130}$	21.3	w	F51	2017 DA$_{143}$		2017 02 21.36003	09 23 13.776	+09 44 05.98	2017 DJ$_{27}$	21.7	w	F51
2017 CS$_{45}$		2017 02 04.55556	09 08 52.430	+25 17 48.10	2017 BQ$_{130}$	21.4	w	F51	2017 DA$_{143}$		2017 02 21.37186	09 23 13.131	+09 44 08.87	2017 DJ$_{27}$	21.6	w	F51
2017 CT$_{45}$	*	2017 02 04.52327	09 36 55.464	+25 19 37.64	2017 BR$_{131}$	21.8	w	F51	2017 DB$_{143}$	*	2017 02 24.51095	10 33 24.715	+17 05 43.95	2017 DQ$_{46}$	21.6	w	F51
2017 CT$_{45}$		2017 02 04.53581	09 36 54.768	+25 19 39.81	2017 BR$_{131}$	21.8	w	F51	2017 DB$_{143}$		2017 02 24.52403	10 33 24.111	+17 05 48.72	2017 DQ$_{46}$	21.7	w	F51
2017 CT$_{45}$		2017 02 04.56084	09 36 53.335	+25 19 44.31	2017 BR$_{131}$	22.1	w	F51	2017 DB$_{143}$		2017 02 24.53721	10 33 23.474	+17 05 53.81	2017 DQ$_{46}$	21.7	w	F51
2017 CU$_{45}$	*	2017 02 04.52598	09 59 53.186	+17 42 53.47	2017 BT$_{132}$	22.0	w	F51	2017 DB$_{143}$		2017 02 24.55052	10 33 22.851	+17 05 58.87	2017 DQ$_{46}$	21.8	w	F51
2017 CU$_{45}$		2017 02 04.55101	09 59 51.884	+17 43 04.36	2017 BT$_{132}$	22.0	w	F51	2017 DC$_{143}$	*	2017 02 24.51582	10 40 32.748	+20 00 22.86	2017 DY$_{47}$	22.1	w	F51
2017 CU$_{45}$		2017 02 04.56354	09 59 51.221	+17 43 10.34	2017 BT$_{132}$	22.1	w	F51	2017 DC$_{143}$		2017 02 24.52896	10 40 32.021	+20 00 23.97	2017 DY$_{47}$	22.4	w	F51
2017 CV$_{45}$	*	2017 02 05.32533	10 15 21.84	+10 55 08.7	2017 CM$_{8}$	20.8	V	G96	2017 DC$_{143}$		2017 02 24.54221	10 40 31.240	+20 00 25.19	2017 DY$_{47}$	22.2	w	F51
2017 CV$_{45}$		2017 02 05.33148	10 15 21.42	+10 55 09.6	2017 CM$_{8}$	21.5	V	G96	2017 DD$_{143}$	*	2017 02 24.51582	10 41 11.462	+18 41 42.24	2017 DC$_{48}$	21.4	w	F51
2017 CV$_{45}$		2017 02 05.33589	10 15 21.14	+10 55 10.3	2017 CM$_{8}$	20.4	V	G96	2017 DD$_{143}$		2017 02 24.52896	10 41 10.807	+18 41 47.15	2017 DC$_{48}$	21.2	w	F51
2017 CV$_{45}$		2017 02 05.33946	10 15 20.93	+10 55 10.8	2017 CM$_{8}$	20.0	V	G96	2017 DD$_{143}$		2017 02 24.54221	10 41 10.138	+18 41 52.00	2017 DC$_{48}$	20.9	w	F51
2017 CW$_{45}$	*	2017 02 05.32533	10 08 59.12	+10 08 13.8	2017 CZ$_{8}$	20.4	V	G96	2017 DD$_{143}$		2017 02 24.55551	10 41 09.471	+18 41 56.95	2017 DC$_{48}$	20.9	w	F51
2017 CW$_{45}$		2017 02 05.33148	10 08 58.77	+10 08 14.7	2017 CZ$_{8}$	21.4	V	G96	2017 DE$_{143}$	*	2017 02 24.51711	10 49 16.838	+16 37 31.79	2017 DY$_{50}$	20.8	w	F51
2017 CW$_{45}$		2017 02 05.33589	10 08 58.51	+10 08 15.5	2017 CZ$_{8}$	20.7	V	G96	2017 DE$_{143}$		2017 02 24.53024	10 49 16.216	+16 37 37.05	2017 DY$_{50}$	21.0	w	F51
2017 CW$_{45}$		2017 02 05.33946	10 08 58.31	+10 08 16.9	2017 CZ$_{8}$	20.7	V	G96	2017 DE$_{143}$		2017 02 24.54354	10 49 15.583	+16 37 42.11	2017 DY$_{50}$	21.4	w	F51
2017 CX$_{45}$	*	2017 02 04.51994	09 10 31.329	+15 59 17.42	2017 CD$_{19}$	21.1	w	F51	2017 DF$_{143}$	*	2017 02 24.51445	10 58 42.082	+23 07 17.59	2017 DR$_{55}$	22.0	w	F51
2017 CX$_{45}$		2017 02 04.53248	09 10 30.667	+15 59 18.64	2017 CD$_{19}$	21.2	w	F51	2017 DF$_{143}$		2017 02 24.52757	10 58 41.140	+23 07 22.03	2017 DR$_{55}$	22.1	w	F51
2017 CX$_{45}$		2017 02 04.54498	09 10 29.972	+15 59 20.08	2017 CD$_{19}$	21.3	w	F51	2017 DF$_{143}$		2017 02 24.54081	10 58 40.169	+23 07 26.18	2017 DR$_{55}$	22.1	w	F51
2017 CX$_{45}$		2017 02 04.55749	09 10 29.290	+15 59 21.47	2017 CD$_{19}$	21.3	w	F51	2017 DF$_{143}$		2017 02 24.55411	10 58 39.209	+23 07 30.43	2017 DR$_{55}$	22.3	w	F51
2017 CY$_{45}$	*	2017 02 05.32281	09 49 47.80	+05 04 34.7	2017 CO$_{29}$	21.5	V	G96	2017 DG$_{143}$	*	2017 02 25.31813	10 00 26.29	+09 39 10.9	2017 DX$_{63}$	20.5	V	G96
2017 CY$_{45}$		2017 02 05.32739	09 49 47.57	+05 04 35.2	2017 CO$_{29}$	21.8	V	G96	2017 DG$_{143}$		2017 02 25.32295	10 00 26.06	+09 39 13.9	2017 DX$_{63}$	20.7	V	G96
2017 CY$_{45}$		2017 02 05.33254	09 49 47.26	+05 04 35.9	2017 CO$_{29}$	21.8	V	G96	2017 DG$_{143}$		2017 02 25.32774	10 00 25.84	+09 39 15.1	2017 DX$_{63}$	20.7	V	G96
2017 CY$_{45}$		2017 02 05.33772	09 49 47.05	+05 04 36.7	2017 CO$_{29}$	20.9	V	G96	2017 DG$_{143}$		2017 02 25.33249	10 00 25.64	+09 39 17.9	2017 DX$_{63}$	20.8	V	G96
2017 CZ$_{45}$	*	2017 02 03.43414	10 09 17.52	+05 52 47.8	2017 DL$_{112}$	20.9	V	G96	2017 DH$_{143}$	*	2017 02 25.31626	10 06 57.90	+08 45 54.3	2017 DS$_{64}$	20.4	V	G96
2017 CZ$_{45}$		2017 02 03.43846	10 09 17.23	+05 52 47.9	2017 DL$_{112}$	21.5	V	G96	2017 DH$_{143}$		2017 02 25.32109	10 06 57.67	+08 45 55.1	2017 DS$_{64}$	21.1	V	G96
2017 CZ$_{45}$		2017 02 03.44273	10 09 17.06	+05 52 48.8	2017 DL$_{112}$	21.7	V	G96	2017 DH$_{143}$		2017 02 25.32587	10 06 57.44	+08 45 56.8	2017 DS$_{64}$	20.6	V	G96
2017 CZ$_{45}$		2017 02 03.44702	10 09 16.74	+05 52 49.2	2017 DL$_{112}$	21.7	V	G96	2017 DH$_{143}$		2017 02 25.33063	10 06 57.24	+08 45 58.1	2017 DS$_{64}$	20.7	V	G96
2017 CA$_{46}$	*	2017 02 04.48875	12 12 48.112	+22 24 48.85	2017 EE$_{20}$	20.1	w	F51	2017 DJ$_{143}$	*	2017 02 25.31672	10 10 40.98	+10 44 06.4	2017 DV$_{65}$	21.1	V	G96
2017 CA$_{46}$		2017 02 04.50168	12 12 48.032	+22 24 55.07	2017 EE$_{20}$	20.1	w	F51	2017 DJ$_{143}$		2017 02 25.32633	10 10 40.39	+10 44 11.0	2017 DV$_{65}$	21.7	V	G96
2017 DT$_{142}$	*	2017 02 24.51095	10 31 57.403	+16 59 25.83	2017 DS$_{46}$	22.1	w	F51	2017 DJ$_{143}$		2017 02 25.33109	10 10 40.10	+10 44 11.2	2017 DV$_{65}$	21.6	V	G96
2017 DT$_{142}$		2017 02 24.53721	10 31 55.810	+16 59 35.96	2017 DS$_{46}$	21.8	w	F51	2017 DK$_{143}$	*	2017 02 25.31532	10 14 47.69	+10 02 55.8	2017 DJ$_{70}$	21.6	V	G96
2017 DT$_{142}$		2017 02 24.55052	10 31 55.006	+16 59 41.23	2017 DS$_{46}$	22.0	w	F51	2017 DK$_{143}$		2017 02 25.32015	10 14 47.44	+10 02 57.7	2017 DJ$_{70}$	20.9	V	G96
2017 DU$_{142}$	*	2017 02 18.50789	09 48 38.209	+15 12 01.20	2017 DY$_{2}$	20.0	i	F51	2017 DK$_{143}$		2017 02 25.32493	10 14 47.21	+10 03 00.7	2017 DJ$_{70}$	21.1	V	G96
2017 DU$_{142}$		2017 02 18.52457	09 48 37.152	+15 12 04.08	2017 DY$_{2}$	20.3	i	F51	2017 DK$_{143}$		2017 02 25.32969	10 14 46.96	+10 03 02.6	2017 DJ$_{70}$	20.9	V	G96
2017 DU$_{142}$		2017 02 18.54410	09 48 35.938	+15 12 07.11	2017 DY$_{2}$	20.0	i	F51	2017 DL$_{143}$	*	2017 02 24.52960	10 45 15.506	+15 23 12.21	2017 DR$_{70}$	22.1	w	F51
2017 DV$_{142}$	*	2017 02 18.34836	09 48 53.171	+15 07 57.44	2017 DZ$_{2}$	20.9	i	F51	2017 DL$_{143}$		2017 02 24.54285	10 45 14.685	+15 23 16.48	2017 DR$_{70}$	22.0	w	F51
2017 DV$_{142}$		2017 02 18.37484	09 48 51.572	+15 07 59.56	2017 DZ$_{2}$	21.0	i	F51	2017 DL$_{143}$		2017 02 24.55615	10 45 13.843	+15 23 20.60	2017 DR$_{70}$	22.2	w	F51
2017 DW$_{142}$	*	2017 02 21.34180	09 45 15.874	+13 21 45.96	2017 DA$_{21}$	21.0	w	F51	2017 DM$_{143}$	*	2017 02 25.28980	11 13 57.87	−00 24 45.6	2017 DW$_{94}$	21.5	V	G96
2017 DW$_{142}$		2017 02 21.35349	09 45 15.265	+13 21 48.74	2017 DA$_{21}$	21.2	w	F51	2017 DM$_{143}$		2017 02 25.29677	11 13 57.54	−00 24 43.4	2017 DW$_{94}$	21.8	V	G96

2017 DM_{143}		2017 02 25.30100	11 13 57.36	−00 24 41.7	2017 DW_{94}	21.8	V	G96	2017 FD_{199}		2017 03 21.35589	12 24 16.411	+13 07 23.48	2017 FY_{26}	22.4	w	F51
2017 DM_{143}		2017 02 25.30523	11 13 57.17	−00 24 39.9	2017 DW_{94}	21.3	V	G96	2017 FD_{199}		2017 03 21.36733	12 24 15.853	+13 07 26.26	2017 FY_{26}	22.4	w	F51
2017 DN_{143}	*	2017 02 25.48911	11 23 24.188	−01 58 21.08	2017 DB_{97}	21.3	w	F51	2017 FD_{199}		2017 03 21.37876	12 24 15.263	+13 07 28.58	2017 FY_{26}	22.3	w	F51
2017 DN_{143}		2017 02 25.50035	11 23 23.657	−01 58 20.30	2017 DB_{97}	21.3	w	F51	2017 FE_{199}	*	2017 03 19.37916	12 20 45.692	−05 23 55.70	2017 FT_{34}	21.1	w	F51
2017 DN_{143}		2017 02 25.51158	11 23 23.116	−01 58 19.36	2017 DB_{97}	21.3	w	F51	2017 FE_{199}		2017 03 19.39124	12 20 45.138	−05 23 52.45	2017 FT_{34}	21.2	w	F51
2017 DO_{143}	*	2017 02 25.49039	11 15 51.842	−06 35 30.29	2017 DK_{101}	21.0	w	F51	2017 FE_{199}		2017 03 19.40332	12 20 44.582	−05 23 49.50	2017 FT_{34}	21.0	w	F51
2017 DO_{143}		2017 02 25.50163	11 15 51.274	−06 35 28.35	2017 DK_{101}	20.9	w	F51	2017 FE_{199}		2017 03 19.41541	12 20 44.028	−05 23 46.52	2017 FT_{34}	21.0	w	F51
2017 DO_{143}		2017 02 25.52412	11 15 50.161	−06 35 24.60	2017 DK_{101}	20.9	w	F51	2017 FF_{199}	*	2017 03 21.39504	11 30 12.745	−08 37 55.81	2017 FE_{48}	21.5	w	F51
2017 DP_{143}	*	2017 02 27.36071	09 50 08.359	+07 37 22.94	2017 DV_{112}	21.8	w	F51	2017 FF_{199}		2017 03 21.40625	11 30 12.215	−08 37 52.55	2017 FE_{48}	21.5	w	F51
2017 DP_{143}		2017 02 27.37201	09 50 07.777	+07 37 25.61	2017 DV_{112}	21.7	w	F51	2017 FF_{199}		2017 03 21.41745	11 30 11.682	−08 37 49.69	2017 FE_{48}	21.6	w	F51
2017 DP_{143}		2017 02 27.38331	09 50 07.199	+07 37 28.43	2017 DV_{112}	22.0	w	F51	2017 FF_{199}		2017 03 21.42867	11 30 11.171	−08 37 46.46	2017 FE_{48}	21.5	w	F51
2017 DQ_{143}	*	2017 02 27.31549	09 24 03.474	+33 52 44.60	2017 DV_{113}	21.4	w	F51	2017 FG_{199}	*	2017 03 21.34856	12 48 51.585	+15 07 20.34	2017 FW_{57}	21.6	w	F51
2017 DQ_{143}		2017 02 27.32704	09 24 02.862	+33 52 46.94	2017 DV_{113}	21.3	w	F51	2017 FG_{199}		2017 03 21.35999	12 48 51.075	+15 07 24.70	2017 FW_{57}	21.6	w	F51
2017 DQ_{143}		2017 02 27.33869	09 24 02.244	+33 52 48.93	2017 DV_{113}	21.3	w	F51	2017 FG_{199}		2017 03 21.37142	12 48 50.543	+15 07 28.77	2017 FW_{57}	21.5	w	F51
2017 DQ_{143}		2017 02 27.35022	09 24 01.633	+33 52 51.23	2017 DV_{113}	21.5	w	F51	2017 FG_{199}		2017 03 21.38284	12 48 50.021	+15 07 32.81	2017 FW_{57}	21.5	w	F51
2017 DR_{143}	*	2017 02 21.52617	12 27 47.831	−03 16 02.95	2017 FY_{35}	21.6	w	F51	2017 FH_{199}	*	2017 03 22.32098	11 16 03.31	+03 45 45.4	2017 FO_{70}	21.4	V	691
2017 DR_{143}		2017 02 21.53787	12 27 47.478	−03 16 02.30	2017 FY_{35}	21.6	w	F51	2017 FH_{199}		2017 03 22.33120	11 16 02.89	+03 45 51.1	2017 FO_{70}	21.8	V	691
2017 DR_{143}		2017 02 21.54955	12 27 47.104	−03 16 02.48	2017 FY_{35}	21.6	w	F51	2017 FH_{199}		2017 03 22.34144	11 16 02.41	+03 45 55.6	2017 FO_{70}	21.7	V	691
2017 EF_{41}	*	2017 03 07.93931	14 31 45.69	+06 12 17.8	2017 EC_{6}	20.8	V	C42	2017 FJ_{199}	*	2017 03 25.26921	11 57 47.47	−11 35 40.7	2017 FN_{94}	20.3	V	G96
2017 EF_{41}		2017 03 07.95048	14 31 45.40	+06 12 15.4	2017 EC_{6}	21.1	V	C42	2017 FJ_{199}		2017 03 25.27344	11 57 47.25	−11 35 38.4	2017 FN_{94}	20.3	V	G96
2017 EG_{41}	*	2017 03 05.51632	12 55 39.906	+06 17 22.92	2017 EB_{12}	20.8	w	F51	2017 FJ_{199}		2017 03 25.27768	11 57 47.06	−11 35 36.9	2017 FN_{94}	20.1	V	G96
2017 EG_{41}		2017 03 05.52904	12 55 39.349	+06 17 24.38	2017 EB_{12}	20.7	w	F51	2017 FJ_{199}		2017 03 25.28191	11 57 46.87	−11 35 35.7	2017 FN_{94}	20.2	V	G96
2017 EG_{41}		2017 03 05.54177	12 55 38.813	+06 17 25.70	2017 EB_{12}	20.7	w	F51	2017 FJ_{199}		2017 03 25.41848	11 57 40.738	−11 34 43.23	2017 FN_{94}	20.3	w	F51
2017 EG_{41}		2017 03 05.55452	12 55 38.255	+06 17 27.00	2017 EB_{12}	20.8	w	F51	2017 FJ_{199}		2017 03 25.43057	11 57 40.176	−11 34 38.61	2017 FN_{94}	20.3	w	F51
2017 FW_{198}	*	2017 03 21.24930	10 34 54.89	+03 36 24.2	2017 FE_{11}	21.0	V	G96	2017 FJ_{199}		2017 03 25.44267	11 57 39.611	−11 34 33.93	2017 FN_{94}	20.3	w	F51
2017 FW_{198}		2017 03 21.25457	10 34 54.72	+03 36 26.1	2017 FE_{11}	21.1	V	G96	2017 FJ_{199}		2017 03 25.45479	11 57 39.055	−11 34 29.38	2017 FN_{94}	20.3	w	F51
2017 FW_{198}		2017 03 21.26142	10 34 54.51	+03 36 29.4	2017 FE_{11}	22.1	V	G96	2017 FK_{199}	*	2017 03 25.26059	11 27 25.79	−09 26 48.3	2017 FT_{94}	21.0	V	691
2017 FW_{198}		2017 03 21.26567	10 34 54.41	+03 36 30.9	2017 FE_{11}	21.5	V	G96	2017 FK_{199}		2017 03 25.27147	11 27 25.34	−09 26 43.1	2017 FT_{94}	20.8	V	691
2017 FX_{198}	*	2017 03 20.29884	11 45 03.021	+16 01 58.07	2017 FD_{12}	20.8	w	F51	2017 FK_{199}		2017 03 25.28236	11 27 24.88	−09 26 38.4	2017 FT_{94}	20.9	V	691
2017 FX_{198}		2017 03 20.31050	11 45 02.414	+16 01 59.90	2017 FD_{12}	20.9	w	F51	2017 FL_{199}	*	2017 03 27.45132	12 14 39.273	−04 47 56.38	2017 FB_{116}	21.0	w	F51
2017 FX_{198}		2017 03 20.32215	11 45 01.833	+16 02 01.81	2017 FD_{12}	20.9	w	F51	2017 FL_{199}		2017 03 27.46374	12 14 38.589	−04 47 52.71	2017 FB_{116}	20.8	w	F51
2017 FX_{198}		2017 03 20.33378	11 45 01.247	+16 02 03.58	2017 FD_{12}	20.8	w	F51	2017 FL_{199}		2017 03 27.47617	12 14 37.920	−04 47 49.09	2017 FB_{116}	20.9	w	F51
2017 FY_{198}	*	2017 03 19.30830	11 53 01.40	+01 13 37.9	2017 FW_{18}	22.1	V	G96	2017 FL_{199}		2017 03 27.48858	12 14 37.232	−04 47 45.54	2017 FB_{116}	20.9	w	F51
2017 FY_{198}		2017 03 19.31368	11 53 01.08	+01 13 38.6	2017 FW_{18}	21.1	V	G96	2017 FM_{199}	*	2017 03 29.39883	12 49 02.447	+03 59 33.77	2017 FG_{133}	21.2	w	F51
2017 FY_{198}		2017 03 19.31897	11 53 00.73	+01 13 41.2	2017 FW_{18}	21.7	V	G96	2017 FM_{199}		2017 03 29.41111	12 49 01.840	+03 59 37.60	2017 FG_{133}	21.4	w	F51
2017 FY_{198}		2017 03 19.32497	11 53 00.37	+01 13 43.6	2017 FW_{18}	22.0	V	G96	2017 FM_{199}		2017 03 29.42342	12 49 01.237	+03 59 41.22	2017 FG_{133}	21.2	w	F51
2017 FZ_{198}	*	2017 03 20.33756	12 00 37.613	+05 20 30.31	2017 FE_{20}	21.2	w	F51	2017 FN_{199}	*	2017 03 29.39532	12 36 07.336	+01 33 02.79	2017 FE_{137}	21.7	w	F51
2017 FZ_{198}		2017 03 20.34937	12 00 36.994	+05 20 33.58	2017 FE_{20}	21.2	w	F51	2017 FN_{199}		2017 03 29.40759	12 36 06.627	+01 33 06.61	2017 FE_{137}	21.6	w	F51
2017 FZ_{198}		2017 03 20.36123	12 00 36.388	+05 20 36.67	2017 FE_{20}	21.0	w	F51	2017 FN_{199}		2017 03 29.41992	12 36 05.919	+01 33 10.34	2017 FE_{137}	21.8	w	F51
2017 FZ_{198}		2017 03 20.37306	12 00 35.774	+05 20 39.82	2017 FE_{20}	21.2	w	F51	2017 FN_{199}		2017 03 29.43351	12 36 05.159	+01 33 14.14	2017 FE_{137}	21.7	w	F51
2017 FA_{199}	*	2017 03 20.29691	11 39 41.196	+08 34 12.20	2017 FT_{20}	21.3	w	F51	2017 FO_{199}	*	2017 03 29.39532	12 38 03.282	+01 09 57.44	2017 FL_{137}	21.2	w	F51
2017 FA_{199}		2017 03 20.30856	11 39 40.619	+08 34 16.28	2017 FT_{20}	21.4	w	F51	2017 FO_{199}		2017 03 29.40759	12 38 02.621	+01 10 01.40	2017 FL_{137}	21.5	w	F51
2017 FA_{199}		2017 03 20.32022	11 39 40.000	+08 34 20.61	2017 FT_{20}	21.2	w	F51	2017 FO_{199}		2017 03 29.41992	12 38 01.959	+01 10 05.00	2017 FL_{137}	21.3	w	F51
2017 FA_{199}		2017 03 20.33186	11 39 39.398	+08 34 24.77	2017 FT_{20}	21.0	w	F51	2017 FO_{199}		2017 03 29.43351	12 38 01.228	+01 10 09.28	2017 FL_{137}	21.3	w	F51
2017 FB_{199}	*	2017 03 20.29370	11 12 10.169	+08 59 08.00	2017 FZ_{22}	21.0	w	F51	2017 FP_{199}	*	2017 03 29.39468	12 25 55.909	+00 25 13.15	2017 FY_{139}	21.6	w	F51
2017 FB_{199}		2017 03 20.30535	11 12 09.623	+08 59 10.92	2017 FZ_{22}	21.1	w	F51	2017 FP_{199}		2017 03 29.40695	12 25 55.258	+00 25 14.99	2017 FY_{139}	21.3	w	F51
2017 FB_{199}		2017 03 20.31701	11 12 09.106	+08 59 14.08	2017 FZ_{22}	21.1	w	F51	2017 FP_{199}		2017 03 29.41928	12 25 54.634	+00 25 16.53	2017 FY_{139}	21.4	w	F51
2017 FB_{199}		2017 03 20.32865	11 12 08.563	+08 59 17.13	2017 FZ_{22}	21.0	w	F51	2017 FP_{199}		2017 03 29.43286	12 25 53.946	+00 25 18.33	2017 FY_{139}	21.6	w	F51
2017 FC_{199}	*	2017 03 21.34303	12 23 57.058	+11 41 04.51	2017 FW_{26}	21.6	w	F51	2017 FQ_{199}	*	2017 03 29.39403	12 31 08.863	+02 27 42.75	2017 FD_{141}	21.5	w	F51
2017 FC_{199}		2017 03 21.35448	12 23 56.447	+11 41 08.43	2017 FW_{26}	21.3	w	F51	2017 FQ_{199}		2017 03 29.40631	12 31 08.157	+02 27 47.32	2017 FD_{141}	21.9	w	F51
2017 FC_{199}		2017 03 21.36589	12 23 55.848	+11 41 12.59	2017 FW_{26}	21.3	w	F51	2017 FQ_{199}		2017 03 29.41863	12 31 07.439	+02 27 51.78	2017 FD_{141}	21.7	w	F51
2017 FC_{199}		2017 03 21.37735	12 23 55.234	+11 41 16.24	2017 FW_{26}	21.6	w	F51	2017 FR_{199}	*	2017 03 22.32098	11 18 54.24	+04 46 07.6	2017 FR_{159}	20.9	V	691
2017 FD_{199}	*	2017 03 21.34445	12 24 16.972	+13 07 20.48	2017 FY_{26}	22.4	w	F51	2017 FR_{199}		2017 03 22.33120	11 18 53.70	+04 46 10.5	2017 FR_{159}	21.2	V	691

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2017 UD_{150}	*2017 10 17.19373	23 21 35.91	−04 39 01.3	2017 RW_{53}	20.8	G	G96
2017 UD_{150}	2017 10 17.19912	23 21 35.77	−04 39 02.8	2017 RW_{53}	20.7	G	G96
2017 UD_{150}	2017 10 17.20435	23 21 35.64	−04 39 04.6	2017 RW_{53}	21.0	G	G96
2017 UD_{150}	2017 10 17.20979	23 21 35.50	−04 39 06.1	2017 RW_{53}	21.4	G	G96
2017 UE_{150}	*2017 10 16.16617	23 04 04.87	+02 03 10.9	2017 SP_{47}	18.5	G	G96
2017 UE_{150}	2017 10 16.17137	23 04 04.75	+02 03 09.0	2017 SP_{47}	18.5	G	G96
2017 UE_{150}	2017 10 16.17656	23 04 04.61	+02 03 07.1	2017 SP_{47}	18.5	G	G96
2017 UE_{150}	2017 10 16.17852	23 04 04.54	+02 03 06.8	2017 SP_{47}	18.8	V	691
2017 UE_{150}	2017 10 16.18175	23 04 04.48	+02 03 05.3	2017 SP_{47}	18.5	G	G96
2017 UE_{150}	2017 10 16.19202	23 04 04.20	+02 03 01.8	2017 SP_{47}	19.3	V	691
2017 UE_{150}	2017 10 16.20561	23 04 03.87	+02 02 56.9	2017 SP_{47}	19.0	V	691
2017 UF_{150}	*2017 10 16.18802	23 19 03.02	+03 18 03.2	2017 SM_{53}	21.4	G	G96
2017 UF_{150}	2017 10 16.19322	23 19 02.89	+03 18 00.8	2017 SM_{53}	21.8	G	G96
2017 UF_{150}	2017 10 16.19847	23 19 02.84	+03 17 59.1	2017 SM_{53}	21.4	G	G96
2017 UF_{150}	2017 10 16.20369	23 19 02.76	+03 17 56.4	2017 SM_{53}	21.1	G	G96
2017 UG_{150}	*2017 10 16.25942	01 04 38.50	+03 43 29.1	2017 SK_{82}	20.4	G	G96
2017 UG_{150}	2017 10 16.26460	01 04 38.25	+03 43 27.5	2017 SK_{82}	20.5	G	G96
2017 UG_{150}	2017 10 16.26981	01 04 37.98	+03 43 25.4	2017 SK_{82}	20.8	G	G96
2017 UG_{150}	2017 10 16.27500	01 04 37.75	+03 43 23.8	2017 SK_{82}	20.5	G	G96
2017 UH_{150}	*2017 10 17.30114	01 47 35.64	−05 33 36.6	2017 SN_{113}	20.9	G	G96
2017 UH_{150}	2017 10 17.30639	01 47 35.39	−05 33 37.2	2017 SN_{113}	21.0	G	G96
2017 UH_{150}	2017 10 17.31158	01 47 35.09	−05 33 37.5	2017 SN_{113}	20.9	G	G96
2017 UH_{150}	2017 10 17.31681	01 47 34.85	−05 33 38.4	2017 SN_{113}	20.8	G	G96
2017 UJ_{150}	*2017 10 25.34443	02 22 44.00	−00 18 14.8	2017 SM_{125}	21.7	G	G96
2017 UJ_{150}	2017 10 25.34972	02 22 43.76	−00 18 16.5	2017 SM_{125}	21.7	G	G96
2017 UJ_{150}	2017 10 25.35501	02 22 43.66	−00 18 19.0	2017 SM_{125}	20.6	G	G96
2017 UJ_{150}	2017 10 25.36029	02 22 43.32	−00 18 21.1	2017 SM_{125}	21.1	G	G96
2017 UK_{150}	*2017 10 16.23060	00 00 23.28	+04 39 06.8	2017 SU_{131}	18.8	G	G96
2017 UK_{150}	2017 10 16.23583	00 00 23.01	+04 39 06.8	2017 SU_{131}	18.7	G	G96
2017 UK_{150}	2017 10 16.24106	00 00 22.75	+04 39 07.0	2017 SU_{131}	18.6	G	G96
2017 UK_{150}	2017 10 16.24626	00 00 22.49	+04 39 07.2	2017 SU_{131}	18.6	G	G96
2017 UL_{150}	*2017 10 16.85586	02 22 50.23	+04 28 15.4	2017 TU_{13}	21.3	V	198
2017 UL_{150}	2017 10 16.85798	02 22 50.14	+04 28 14.5	2017 TU_{13}	21.2	V	198
2017 UL_{150}	2017 10 16.86433	02 22 49.86	+04 28 12.7	2017 TU_{13}	21.4	V	198
2017 UL_{150}	2017 10 16.87209	02 22 49.51	+04 28 10.5	2017 TU_{13}	21.1	V	198
2017 UL_{150}	2017 10 16.88055	02 22 49.08	+04 28 07.7	2017 TU_{13}	21.4	V	198
2017 UM_{150}	*2017 10 25.24529	00 26 43.90	−02 01 27.8	2017 UM_{22}	21.6	G	G96
2017 UM_{150}	2017 10 25.25334	00 26 43.59	−02 01 28.9	2017 UM_{22}	20.9	G	G96
2017 UM_{150}	2017 10 25.25859	00 26 43.41	−02 01 28.9	2017 UM_{22}	21.4	G	G96
2017 UM_{150}	2017 10 25.26387	00 26 43.24	−02 01 29.2	2017 UM_{22}	21.1	G	G96
2017 UN_{150}	*2017 10 25.63485	01 39 33.91	+13 44 00.1	2017 UR_{33}	19.8	R	N87
2017 UN_{150}	2017 10 25.66861	01 39 31.81	+13 43 47.5	2017 UR_{33}	21.5	R	N87
2017 UN_{150}	2017 10 25.73476	01 39 27.63	+13 43 22.4	2017 UR_{33}	21.7	R	N87
2017 UO_{150}	*2017 10 16.36754	03 37 45.09	+05 54 33.2	2017 UO_{48}	22.0	G	G96
2017 UO_{150}	2017 10 16.37277	03 37 44.95	+05 54 31.7	2017 UO_{48}	21.8	G	G96
2017 UO_{150}	2017 10 16.37796	03 37 44.81	+05 54 29.5	2017 UO_{48}	21.8	G	G96
2017 UO_{150}	2017 10 16.38315	03 37 44.64	+05 54 27.9	2017 UO_{48}	21.2	G	G96
2017 UP_{150}	*2017 10 23.30204	02 05 10.45	+12 04 22.3	2017 VB_{34}	21.2	G	G96
2017 UP_{150}	2017 10 23.30723	02 05 10.15	+12 04 20.6	2017 VB_{34}	21.4	G	G96
2017 UP_{150}	2017 10 23.31244	02 05 09.79	+12 04 19.4	2017 VB_{34}	21.6	G	G96
2017 UP_{150}	2017 10 23.31764	02 05 09.53	+12 04 17.0	2017 VB_{34}	21.7	G	G96
2017 VS_{52}	*2017 11 15.25116	02 15 27.73	+18 22 10.5	2017 VT_{28}	22.1	G	G96
2017 VS_{52}	2017 11 15.25638	02 15 27.48	+18 22 09.6	2017 VT_{28}	21.6	G	G96
2017 VS_{52}	2017 11 15.26158	02 15 27.19	+18 22 09.0	2017 VT_{28}	21.7	G	G96
2017 VS_{52}	2017 11 15.26677	02 15 26.94	+18 22 07.6	2017 VT_{28}	22.6	G	G96
2017 VV_{52}	*2017 11 08.63540	02 58 14.79	+13 14 52.7	2017 UO_{37}	18.9	R	D29
2017 VV_{52}	2017 11 08.65042	02 58 13.73	+13 14 43.1	2017 UO_{37}	19.2	R	D29
2017 VW_{52}	*2017 11 13.33122	01 57 44.783	+07 24 45.18	2017 VQ_8	21.1	w	F51
2017 VW_{52}	2017 11 13.34445	01 57 44.249	+07 24 41.88	2017 VQ_8	20.9	w	F51
2017 VW_{52}	2017 11 13.35767	01 57 43.712	+07 24 38.75	2017 VQ_8	21.0	w	F51
2017 VW_{52}	2017 11 13.37092	01 57 43.173	+07 24 35.23	2017 VQ_8	21.2	w	F51
2017 VX_{52}	*2017 11 15.22836	01 59 45.19	+17 14 19.1	2017 VN_{18}			G96
2017 VX_{52}	2017 11 15.23356	01 59 44.97	+17 14 17.7	2017 VN_{18}	20.9	G	G96
2017 VX_{52}	2017 11 15.23876	01 59 44.74	+17 14 15.9	2017 VN_{18}	20.8	G	G96
2017 VX_{52}	2017 11 15.24398	01 59 44.53	+17 14 14.5	2017 VN_{18}	20.7	G	G96
2017 VY_{52}	*2017 11 15.25116	02 12 31.55	+19 08 19.9	2017 VC_{22}	21.2	G	G96
2017 VY_{52}	2017 11 15.25638	02 12 31.27	+19 08 19.6	2017 VC_{22}	20.9	G	G96
2017 VY_{52}	2017 11 15.26158	02 12 30.98	+19 08 19.3	2017 VC_{22}	21.1	G	G96
2017 VY_{52}	2017 11 15.26677	02 12 30.72	+19 08 19.2	2017 VC_{22}	20.9	G	G96
2017 VZ_{52}	*2017 11 15.26782	02 51 13.64	+16 36 38.0	2017 VA_{31}	21.3	G	G96
2017 VZ_{52}	2017 11 15.27306	02 51 13.32	+16 36 36.1	2017 VA_{31}	21.8	G	G96
2017 VZ_{52}	2017 11 15.27822	02 51 13.11	+16 36 35.2	2017 VA_{31}	21.2	G	G96
2017 VZ_{52}	2017 11 15.28346	02 51 12.82	+16 36 33.6	2017 VA_{31}	21.2	G	G96
2017 VA_{53}	*2017 11 09.16986	03 37 40.32	+19 47 53.9	2017 XZ_{10}	21.4	G	309
2017 VA_{53}	2017 11 09.17107	03 37 40.24	+19 47 53.9	2017 XZ_{10}	21.4	G	309
2017 VA_{53}	2017 11 09.17227	03 37 40.17	+19 47 53.7	2017 XZ_{10}	21.1	G	309
2017 VA_{53}	2017 11 09.17348	03 37 40.08	+19 47 53.6	2017 XZ_{10}	21.3	G	309
2017 VA_{53}	2017 11 09.17471	03 37 40.01	+19 47 53.5	2017 XZ_{10}	21.5	G	309
2017 VA_{53}	2017 11 09.17591	03 37 39.93	+19 47 53.3	2017 XZ_{10}	21.4	G	309
2017 VA_{53}	2017 11 09.17713	03 37 39.85	+19 47 53.1	2017 XZ_{10}	21.3	G	309
2017 VA_{53}	2017 11 09.17833	03 37 39.78	+19 47 52.9	2017 XZ_{10}	21.3	G	309
2017 VA_{53}	2017 11 09.17954	03 37 39.71	+19 47 52.7	2017 XZ_{10}	21.3	G	309
2017 VA_{53}	2017 11 09.18075	03 37 39.63	+19 47 52.6	2017 XZ_{10}	21.1	G	309
2017 VB_{53}	*2017 11 14.27198	03 32 55.37	+23 50 21.4	2017 XD_{20}	20.9	G	G96
2017 VB_{53}	2017 11 14.27625	03 32 55.15	+23 50 21.3	2017 XD_{20}	20.6	G	G96
2017 VB_{53}	2017 11 14.28052	03 32 54.85	+23 50 19.9	2017 XD_{20}	20.9	G	G96
2017 VB_{53}	2017 11 14.28480	03 32 54.60	+23 50 19.3	2017 XD_{20}	20.8	G	G96
2017 VC_{53}	*2017 11 14.20683	03 51 41.674	+19 25 08.74	2017 XL_{26}	21.7	G	309
2017 VC_{53}	2017 11 14.20804	03 51 41.618	+19 25 08.48	2017 XL_{26}	21.8	G	309
2017 VC_{53}	2017 11 14.20925	03 51 41.540	+19 25 08.70	2017 XL_{26}	21.8	G	309
2017 VC_{53}	2017 11 14.21045	03 51 41.457	+19 25 08.48	2017 XL_{26}	21.6	G	309
2017 VC_{53}	2017 11 14.21166	03 51 41.388	+19 25 08.41	2017 XL_{26}	21.5	G	309
2017 VC_{53}	2017 11 14.21287	03 51 41.324	+19 25 08.22	2017 XL_{26}	21.6	G	309
2017 VC_{53}	2017 11 14.21528	03 51 41.164	+19 25 08.13	2017 XL_{26}	21.8	G	309
2017 VC_{53}	2017 11 14.21770	03 51 41.028	+19 25 08.03	2017 XL_{26}	21.6	G	309
2017 VE_{54}	*2017 11 13.44228	02 53 03.656	+23 21 17.90	2021 PO_{15}	22.2	w	F51
2017 VE_{54}	2017 11 13.47037	02 53 02.140	+23 21 06.23	2021 PO_{15}	22.2	w	F51
2017 VE_{54}	2017 11 13.48447	02 53 01.400	+23 20 59.92	2021 PO_{15}	22.1	w	F51
2017 WL_{66}	*2017 11 21.33730	03 43 08.55	+31 49 06.3	2017 WT_{10}	20.4	G	G96
2017 WL_{66}	2017 11 21.34249	03 43 08.24	+31 49 05.8	2017 WT_{10}	21.1	G	G96
2017 WL_{66}	2017 11 21.34767	03 43 07.90	+31 49 05.3	2017 WT_{10}	20.1	G	G96
2017 WL_{66}	2017 11 21.35286	03 43 07.68	+31 49 05.1	2017 WT_{10}	20.1	G	G96
2017 WM_{66}	*2017 11 26.26794	03 15 13.56	+17 41 06.7	2017 XD_{10}	21.3	G	G96
2017 WM_{66}	2017 11 26.27319	03 15 13.26	+17 41 06.3	2017 XD_{10}	21.1	G	G96
2017 WM_{66}	2017 11 26.27835	03 15 12.97	+17 41 05.5	2017 XD_{10}	20.9	G	G96
2017 WM_{66}	2017 11 26.28353	03 15 12.68	+17 41 05.1	2017 XD_{10}	20.5	G	G96

2017 WN_{66}	*2017 11 27.22785	03 23 33.26	+23 52 44.0	2017 XX_{16}	20.8	G	G96
2017 WN_{66}	2017 11 27.23304	03 23 32.99	+23 52 41.4	2017 XX_{16}	20.8	G	G96
2017 WN_{66}	2017 11 27.23824	03 23 32.72	+23 52 38.7	2017 XX_{16}	20.6	G	G96
2017 WN_{66}	2017 11 27.24353	03 23 32.43	+23 52 36.0	2017 XX_{16}	20.9	G	G96
2017 WP_{67}	2017 11 21.36159	04 04 05.037	+18 04 48.32	2015 HK_{222}	21.5	w	F51
2017 WP_{67}	*2017 11 21.37462	04 04 04.337	+18 04 47.00	2015 HK_{222}	21.7	w	F51
2017 WP_{67}	2017 11 21.38764	04 04 03.629	+18 04 45.70	2015 HK_{222}	21.7	w	F51
2017 XU_{80}	*2017 12 09.26877	03 30 57.864	+19 15 29.32	2017 XM_{26}	21.2	w	F51
2017 XU_{80}	2017 12 09.28247	03 30 57.230	+19 15 27.19	2017 XM_{26}	21.3	w	F51
2017 XU_{80}	2017 12 09.29606	03 30 56.610	+19 15 24.74	2017 XM_{26}	21.3	w	F51
2017 XU_{80}	2017 12 09.30968	03 30 56.001	+19 15 22.53	2017 XM_{26}	21.2	w	F51
2018 BX_{28}	*2018 01 20.29538	08 17 05.86	+33 04 31.8	2018 AY_9	21.6	G	G96
2018 BX_{28}	2018 01 20.30064	08 17 05.59	+33 04 33.5	2018 AY_9	21.6	G	G96
2018 BX_{28}	2018 01 20.30664	08 17 05.23	+33 04 35.9	2018 AY_9	21.8	G	G96
2018 BX_{28}	2018 01 20.31191	08 17 04.87	+33 04 38.9	2018 AY_9	21.8	G	G96
2018 BY_{28}	*2018 01 23.22593	07 26 41.35	+19 30 28.4	2018 BX_7	20.3	G	G96
2018 BY_{28}	2018 01 23.23104	07 26 41.08	+19 30 28.5	2018 BX_7			G96
2018 BY_{28}	2018 01 23.23615	07 26 40.77	+19 30 28.7	2018 BX_7			G96
2018 BY_{28}	2018 01 23.24127	07 26 40.51	+19 30 28.5	2018 BX_7	20.6	G	G96
2018 BZ_{28}	*2018 01 23.33154	09 55 50.42	+21 37 53.9	2018 CT_9	20.9	G	G96
2018 BZ_{28}	2018 01 23.33674	09 55 50.21	+21 37 56.9	2018 CT_9	21.1	G	G96
2018 BZ_{28}	2018 01 23.34193	09 55 49.99	+21 38 00.1	2018 CT_9	21.2	G	G96
2018 BZ_{28}	2018 01 23.34711	09 55 49.77	+21 38 03.6	2018 CT_9	20.7	G	G96
2018 DD_{10}	*2018 02 23.34774	12 30 01.41	+02 22 28.9	2018 FH_{24}	20.5	G	G96
2018 DD_{10}	2018 02 23.35292	12 30 01.26	+02 22 30.1	2018 FH_{24}	21.4	G	G96
2018 DD_{10}	2018 02 23.35810	12 30 01.01	+02 22 33.1	2018 FH_{24}	20.9	G	G96
2018 DD_{10}	2018 02 23.36329	12 30 00.89	+02 22 33.6	2018 FH_{24}	21.1	G	G96
2018 FD_{46}	*2018 03 18.53717	14 46 05.902	−10 16 12.83	2010 KH_{156}	21.8	w	F51
2018 FD_{46}	2018 03 18.54832	14 46 05.715	−10 16 11.41	2010 KH_{156}	21.9	w	F51
2018 FD_{46}	2018 03 18.57055	14 46 05.370	−10 16 09.33	2010 KH_{156}	21.6	w	F51
2018 GT_{20}	*2018 04 15.25569	11 45 43.68	−00 28 45.3	2018 GY_8	21.7	G	G96
2018 GT_{20}	2018 04 15.26084	11 45 43.47	−00 28 45.1	2018 GY_8	20.9	G	G96
2018 GT_{20}	2018 04 15.26601	11 45 43.30	−00 28 43.9	2018 GY_8	21.2	G	G96
2018 GT_{20}	2018 04 15.27117	11 45 43.08	−00 28 42.7	2018 GY_8	20.7	G	G96
2018 HT_8	*2018 04 17.20498	14 29 17.427	−09 50 14.41	2018 GR_{12}	21.9	G	309
2018 HT_8	2018 04 17.20619	14 29 17.363	−09 50 14.33	2018 GR_{12}	22.0	G	309
2018 HT_8	2018 04 17.21083	14 29 17.130	−09 50 13.73	2018 GR_{12}	21.9	G	309
2018 HT_8	2018 04 17.21790	14 29 16.796	−09 50 12.99	2018 GR_{12}	21.7	G	309
2018 HT_8	2018 04 17.21911	14 29 16.741	−09 50 12.86	2018 GR_{12}	21.8	G	309
2018 HU_8	*2018 04 21.10962	14 40 45.455	−12 03 28.00	2018 HW_3	20.7	G	309
2018 HU_8	2018 04 21.11167	14 40 45.361	−12 03 27.61	2018 HW_3	21.6	G	309
2018 HU_8	2018 04 21.11288	14 40 45.304	−12 03 27.31	2018 HW_3	21.6	G	309
2018 HU_8	2018 04 21.11884	14 40 45.028	−12 03 25.88	2018 HW_3	21.1	G	309
2018 HU_8	2018 04 21.12005	14 40 44.979	−12 03 25.65	2018 HW_3	21.0	G	309
2018 HV_8	*2018 04 21.10962	14 41 54.509	−11 44 17.45	2018 HY_3	21.0	G	309
2018 HV_8	2018 04 21.11167	14 41 54.413	−11 44 16.32	2018 HY_3	21.7	G	309
2018 HV_8	2018 04 21.11288	14 41 54.348	−11 44 15.77	2018 HY_3	21.6	G	309
2018 HV_8	2018 04 21.11884	14 41 54.041	−11 44 12.88	2018 HY_3	21.1	G	309
2018 HV_8	2018 04 21.12005	14 41 53.982	−11 44 12.27	2018 HY_3	21.3	G	309
2018 LT_{31}	*2018 06 13.38311	16 21 07.264	−08 11 08.22	2018 LZ_8	21.0	w	F52
2018 LT_{31}	2018 06 13.39371	16 21 06.757	−08 11 09.54	2018 LZ_8	20.8	w	F52
2018 LT_{31}	2018 06 13.40364	16 21 06.267	−08 11 10.50	2018 LZ_8	20.8	w	F52
2018 NA_{38}	*2018 07 13.42359	19 53 21.541	−27 24 32.93	2018 NW_7	21.3	w	F51
2018 NA_{38}	2018 07 13.43348	19 53 20.976	−27 24 35.79	2018 NW_7	21.5	w	F51
2018 NA_{38}	2018 07 13.44338	19 53 20.385	−27 24 38.93	2018 NW_7	21.5	w	F51
2018 NB_{38}	*2018 07 13.41754	20 22 52.701	−27 09 03.29	2018 PQ_{11}	21.4	w	F51
2018 NB_{38}	2018 07 13.42746	20 22 52.138	−27 09 05.41	2018 PQ_{11}	21.8	w	F51
2018 NB_{38}	2018 07 13.43736	20 22 51.599	−27 09 06.93	2018 PQ_{11}	21.4	w	F51
2018 NB_{38}	2018 07 13.44724	20 22 51.011	−27 09 08.96	2018 PQ_{11}	21.4	w	F51
2018 OQ_3	*2018 07 24.03873	20 26 54.83	−06 10 15.7	2018 OD_2	20.5	R	B74
2018 OQ_3	2018 07 24.05030	20 26 54.43	−06 10 16.0	2018 OD_2	20.7	R	B74
2018 OQ_3	2018 07 24.06269	20 26 54.01	−06 10 16.2	2018 OD_2	20.5	R	B74
2018 TK_{43}	*2018 10 13.980916	03 08 12.22	+12 55 11.8	2018 TS_{12}	22.0	G	L01
2018 TK_{43}	2018 10 13.989481	03 08 11.86	+12 55 09.1	2018 TS_{12}	22.2	G	L01
2018 TL_{43}	*2018 10 15.39836	00 49 51.907	−02 15 36.89	2018 TF_{14}	21.7	w	F52
2018 TL_{43}	2018 10 15.42191	00 49 50.852	−02 15 40.88	2018 TF_{14}	21.7	w	F52
2018 TL_{43}	2018 10 15.43370	00 49 50.336	−02 15 42.97	2018 TF_{14}	21.7	w	F52
2018 TM_{43}	*2018 10 06.26383	00 12 33.10	+02 30 54.6	2018 VM_{10}	21.9	G	G96
2018 TM_{43}	2018 10 06.26950	00 12 32.80	+02 30 53.7	2018 VM_{10}	21.5	G	G96
2018 TM_{43}	2018 10 06.27518	00 12 32.51	+02 30 52.2	2018 VM_{10}	21.2	G	G96
2018 TM_{43}	2018 10 06.28088	00 12 32.26	+02 30 51.3	2018 VM_{10}	21.3	G	G96
2018 TN_{43}	*2018 10 06.47362	02 16 54.05	−04 45 47.9	2018 VV_{19}	20.5	G	G96
2018 TN_{43}	2018 10 06.48110	02 16 53.70	−04 45 48.6	2018 VV_{19}	20.6	G	G96
2018 TN_{43}	2018 10 06.48619	02 16 53.43	−04 45 48.6	2018 VV_{19}	20.4	G	G96
2018 TN_{43}	2018 10 06.49127	02 16 53.20	−04 45 48.4	2018 VV_{19}	20.5	G	G96
2018 UN_{37}	*2018 10 21.17166	00 35 21.62	+30 31 20.7	2018 VG_{76}	21.3	G	G96
2018 UN_{37}	2018 10 21.17733	00 35 21.20	+30 31 19.1	2018 VG_{76}			G96
2018 UN_{37}	2018 10 21.18301	00 35 20.89	+30 31 17.4	2018 VG_{76}	19.4	G	G96
2018 UN_{37}	2018 10 21.18868	00 35 20.58	+30 31 15.4	2018 VG_{76}	20.6	G	G96
2018 VJ_{148}	*2018 11 08.24460	02 52 04.44	+20 51 17.3	2018 VU_{56}	21.9	G	G96
2018 VJ_{148}	2018 11 08.24972	02 52 04.09	+20 51 16.4	2018 VU_{56}	21.1	G	G96
2018 VJ_{148}	2018 11 08.25486	02 52 03.83	+20 51 15.3	2018 VU_{56}	21.4	G	G96
2018 VJ_{148}	2018 11 08.25999	02 52 03.48	+20 51 14.5	2018 VU_{56}	21.1	G	G96
2018 VK_{148}	*2018 11 09.23122	02 20 09.91	+16 44 23.0	2018 VY_{91}	20.2	G	G96
2018 VK_{148}	2018 11 09.23646	02 20 09.62	+16 44 21.3	2018 VY_{91}	20.4	G	G96
2018 VK_{148}	2018 11 09.24173	02 20 09.39	+16 44 19.0	2018 VY_{91}	20.8	G	G96
2018 VK_{148}	2018 11 09.24699	02 20 09.11	+16 44 16.8	2018 VY_{91}	20.7	G	G96
2018 VL_{148}	*2018 11 09.23074	02 28 16.27	+17 32 13.3	2018 VP_{101}	20.4	G	G96
2018 VL_{148}	2018 11 09.23599	02 28 15.92	+17 32 11.9	2018 VP_{101}	20.3	G	G96
2018 VL_{148}	2018 11 09.24125	02 28 15.58	+17 32 10.8	2018 VP_{101}	20.3	G	G96
2018 VL_{148}	2018 11 09.24651	02 28 15.28	+17 32 10.1	2018 VP_{101}	20.5	G	G96
2018 VM_{148}	*2018 11 09.25374	02 51 06.09	+18 43 26.8	2018 VB_{104}	20.2	G	G96
2018 VM_{148}	2018 11 09.25899	02 51 05.78	+18 43 25.4	2018 VB_{104}	20.4	G	G96
2018 VM_{148}	2018 11 09.26895	02 51 05.23	+18 43 22.0	2018 VB_{104}	20.4	G	G96
2018 VM_{148}	2018 11 09.27418	02 51 04.90	+18 43 20.8	2018 VB_{104}	20.0	G	G96
2018 VN_{148}	*2018 11 09.25328	02 57 03.70	+16 53 01.7	2018 VQ_{104}	21.0	G	G96
2018 VN_{148}	2018 11 09.25852	02 57 03.38	+16 53 00.2	2018 VQ_{104}	20.6	G	G96
2018 VN_{148}	2018 11 09.26379	02 57 03.07	+16 52 59.3	2018 VQ_{104}	20.8	G	G96
2018 VN_{148}	2018 11 09.27372	02 57 02.46	+16 52 57.1	2018 VQ_{104}	20.6	G	G96
2018 VO_{148}	*2018 11 09.27717	03 41 35.57	+18 39 17.3	2018 VU_{110}	21.0	G	G96
2018 VO_{148}	2018 11 09.27949	03 41 35.39	+18 39 17.1	2018 VU_{110}	21.6	G	G96
2018 VO_{148}	2018 11 09.28746	03 41 34.90	+18 39 15.8	2018 VU_{110}	21.2	G	G96
2018 VO_{148}	2018 11 09.28979	03 41 34.77	+18 39 15.6	2018 VU_{110}	21.5	G	G96
2018 VO_{148}	2018 11 09.29260	03 41 34.60	+18 39 15.0	2018 VU_{110}	21.6	G	G96
2018 VO_{148}	2018 11 09.29492	03 41 34.48	+18 39 14.9	2018 VU_{110}	21.6	G	G96
2018 VP_{148}	*2018 11 04.36908	03 26 13.64	−05 59 53.4	2019 AM_{15}	20.4	G	G96

2018 VP_{148}	2018 11 04.37426	03 26 13.36	−05 59 55.4	2019 AM_{15}	20.9	G	G96
2018 VP_{148}	2018 11 04.37944	03 26 13.08	−05 59 57.2	2019 AM_{15}	20.9	G	G96
2018 VP_{148}	2018 11 04.38462	03 26 12.82	−05 59 59.1	2019 AM_{15}	20.6	G	G96
2018 WS_{9}	*2018 11 28.30042	03 28 20.47	+31 57 46.4	2018 VR_{32}	21.4	G	G96
2018 WS_{9}	2018 11 28.30557	03 28 20.18	+31 57 45.7	2018 VR_{32}	21.6	G	G96
2018 WS_{9}	2018 11 28.32298	03 28 19.17	+31 57 43.2	2018 VR_{32}	21.2	G	G96
2018 WT_{9}	*2018 11 29.14922	02 25 17.19	+22 57 36.1	2018 VG_{48}	21.4	G	G96
2018 WT_{9}	2018 11 29.15478	02 25 17.02	+22 57 35.1	2018 VG_{48}	21.5	G	G96
2018 WT_{9}	2018 11 29.16033	02 25 16.80	+22 57 33.9	2018 VG_{48}	21.3	G	G96
2018 WT_{9}	2018 11 29.16589	02 25 16.56	+22 57 31.9	2018 VG_{48}	22.0	G	G96
2018 WU_{9}	*2018 11 29.19519	03 03 23.50	+21 19 19.9	2018 VM_{74}	21.7	G	G96
2018 WU_{9}	2018 11 29.20079	03 03 23.19	+21 19 20.1	2018 VM_{74}	21.5	G	G96
2018 WU_{9}	2018 11 29.20638	03 03 22.88	+21 19 19.1	2018 VM_{74}	22.0	G	G96
2018 WU_{9}	2018 11 29.21197	03 03 22.49	+21 19 18.0	2018 VM_{74}	22.0	G	G96
2018 WV_{9}	*2018 11 27.25828	02 38 42.74	+17 16 33.3	2018 VL_{94}	20.5	G	703
2018 WV_{9}	2018 11 27.26885	02 38 42.32	+17 16 29.4	2018 VL_{94}	20.2	G	703
2018 WV_{9}	2018 11 27.27409	02 38 42.06	+17 16 26.1	2018 VL_{94}	20.4	G	703
2018 WW_{9}	*2018 11 29.19473	03 11 30.47	+17 50 42.6	2018 VU_{109}			G96
2018 WW_{9}	2018 11 29.20032	03 11 30.12	+17 50 42.4	2018 VU_{109}	20.6	G	G96
2018 WW_{9}	2018 11 29.20591	03 11 29.81	+17 50 42.1	2018 VU_{109}	20.8	G	G96
2018 WW_{9}	2018 11 29.21151	03 11 29.52	+17 50 43.1	2018 VU_{109}			G96
2018 YB_{14}	*2018 12 17.512968	08 03 16.210	+47 29 47.33	2019 AG	23.1	G	F51
2018 YB_{14}	2018 12 17.539314	08 03 15.381	+47 30 38.75	2019 AG	22.1	G	F51
2018 YB_{14}	2018 12 17.552494	08 03 14.984	+47 31 03.59	2019 AG	22.9	G	F51
2018 YC_{14}	*2018 12 16.47585	08 43 00.926	+15 48 53.39	2019 AK_{37}	21.3	w	F51
2018 YC_{14}	2018 12 16.48837	08 43 00.750	+15 48 56.36	2019 AK_{37}	21.3	w	F51
2018 YC_{14}	2018 12 16.50103	08 43 00.585	+15 48 59.30	2019 AK_{37}	21.4	w	F51
2018 YC_{14}	2018 12 16.51380	08 43 00.391	+15 49 01.90	2019 AK_{37}	21.1	w	F51
2018 YG_{14}	2018 12 17.73712	05 47 53.11	+31 54 18.1	2014 DZ_{31}	19.7	R	D29
2018 YG_{14}	*2018 12 17.75126	05 47 52.44	+31 54 18.4	2014 DZ_{31}	20.8	R	D29
2019 AR_{86}	*2019 01 10.24596	07 41 28.65	+15 37 47.7	2019 AX_{24}	19.6	g	I41
2019 AR_{86}	2019 01 10.27476	07 41 26.96	+15 37 54.0	2019 AX_{24}	19.0	r	I41
2019 AS_{86}	*2019 01 08.39832	08 49 51.23	+21 55 38.7	2019 AK_{39}	20.5	G	G96
2019 AS_{86}	2019 01 08.40347	08 49 51.02	+21 55 41.6	2019 AK_{39}	20.4	G	G96
2019 AS_{86}	2019 01 08.40864	08 49 50.78	+21 55 44.5	2019 AK_{39}			G96
2019 AS_{86}	2019 01 08.41379	08 49 50.58	+21 55 48.2	2019 AK_{39}			G96
2019 BE_{11}	*2019 01 27.28108	08 48 30.44	+16 20 50.9	2019 AP_{28}	21.7	G	G96
2019 BE_{11}	2019 01 27.28620	08 48 30.14	+16 20 51.4	2019 AP_{28}	21.3	G	G96
2019 BE_{11}	2019 01 27.29131	08 48 29.92	+16 20 52.4	2019 AP_{28}	20.9	G	G96
2019 BE_{11}	2019 01 27.29643	08 48 29.62	+16 20 53.4	2019 AP_{28}	21.5	G	G96
2019 BF_{11}	*2019 01 26.31519	08 17 28.08	+25 04 07.3	2019 AU_{38}	20.7	G	G96
2019 BF_{11}	2019 01 26.32033	08 17 27.77	+25 04 07.9	2019 AU_{38}	21.0	G	G96
2019 BF_{11}	2019 01 26.32548	08 17 27.42	+25 04 08.3	2019 AU_{38}	20.3	G	G96
2019 BF_{11}	2019 01 26.33062	08 17 27.07	+25 04 10.3	2019 AU_{38}	21.0	G	G96
2019 FU_{26}	*2019 03 29.31982	12 48 29.91	+07 08 20.2	2019 GR_{9}	21.8	G	G96
2019 FU_{26}	2019 03 29.32495	12 48 29.58	+07 08 22.6	2019 GR_{9}	21.1	G	G96
2019 FU_{26}	2019 03 29.33008	12 48 29.30	+07 08 24.7	2019 GR_{9}	21.5	G	G96
2019 FU_{26}	2019 03 29.33520	12 48 29.04	+07 08 27.3	2019 GR_{9}	21.2	G	G96
2019 FY_{26}	*2019 03 17.30527	13 08 51.87	−07 21 12.9	2010 MR_{75}	17.1	G	G96
2019 FY_{26}	2019 03 17.31042	13 08 51.68	−07 21 11.6	2010 MR_{75}	17.1	G	G96
2019 FY_{26}	2019 03 17.31555	13 08 51.48	−07 21 10.6	2010 MR_{75}	17.1	G	G96
2019 GJ_{117}	*2019 04 10.45658	15 14 12.83	+05 38 24.6	2019 JO_{45}	18.9	G	G96
2019 GJ_{117}	2019 04 10.46088	15 14 12.69	+05 38 27.1	2019 JO_{45}	18.7	G	G96
2019 GJ_{117}	2019 04 10.46515	15 14 12.53	+05 38 29.5	2019 JO_{45}	18.8	G	G96
2019 GJ_{117}	2019 04 10.46944	15 14 12.39	+05 38 32.2	2019 JO_{45}	19.1	G	G96
2019 GB_{118}	*2019 04 09.37793	14 26 02.55	−04 33 45.5	2014 BK_{29}	20.1	G	703
2019 GB_{118}	2019 04 09.38321	14 26 02.25	−04 33 44.2	2014 BK_{29}	21.4	G	703
2019 GB_{118}	2019 04 09.39377	14 26 01.74	−04 33 41.9	2014 BK_{29}	19.8	G	703
2019 HY_{11}	*2019 04 28.94315	15 52 31.61	−04 26 40.5	2019 JQ_{39}	20.9	R	B74
2019 HY_{11}	2019 04 28.95954	15 52 30.92	−04 26 35.2	2019 JQ_{39}	20.9	R	B74
2019 HY_{11}	2019 04 28.97594	15 52 30.18	−04 26 29.9	2019 JQ_{39}	21.0	R	B74
2019 JL_{106}	*2019 05 09.36088	14 44 00.543	−15 31 32.26	2019 JZ_{15}	21.6	w	F51
2019 JL_{106}	2019 05 09.37332	14 43 59.964	−15 31 29.22	2019 JZ_{15}	22.0	w	F51
2019 JL_{106}	2019 05 09.38579	14 43 59.416	−15 31 26.04	2019 JZ_{15}	22.0	w	F51
2019 JM_{106}	*2019 05 11.50451	15 54 26.923	−02 27 52.48	2019 JB_{40}	20.8	w	F51
2019 JM_{106}	2019 05 11.50515	15 54 26.899	−02 27 52.32	2019 JB_{40}	20.8	w	F51
2019 JM_{106}	2019 05 11.51488	15 54 26.473	−02 27 50.03	2019 JB_{40}	20.7	w	F51
2019 JM_{106}	2019 05 11.51552	15 54 26.453	−02 27 49.96	2019 JB_{40}	20.8	w	F51
2019 JM_{106}	2019 05 11.52585	15 54 26.004	−02 27 47.56	2019 JB_{40}	20.8	w	F51
2019 JP_{106}	*2019 05 11.26219	12 44 06.240	−03 40 36.86	2019 GU_{116}	19.7	i	F51
2019 JP_{106}	2019 05 11.27256	12 44 06.024	−03 40 33.67	2019 GU_{116}	19.6	i	F51
2019 JP_{106}	2019 05 11.28293	12 44 05.807	−03 40 30.37	2019 GU_{116}	19.7	i	F51
2019 QG_{74}	*2019 08 28.36926	20 38 25.012	−19 25 12.68	2019 NX_{76}	22.5	w	F51
2019 QG_{74}	2019 08 28.37144	20 38 24.917	−19 25 12.92	2019 NX_{76}	22.3	w	F51
2019 QG_{74}	2019 08 28.38002	20 38 24.588	−19 25 13.85	2019 NX_{76}	22.1	w	F51
2019 QG_{74}	2019 08 28.38220	20 38 24.511	−19 25 14.24	2019 NX_{76}	22.3	w	F51
2019 QG_{74}	2019 08 28.40153	20 38 23.737	−19 25 17.31	2019 NX_{76}	22.3	w	F51
2019 QG_{74}	2019 08 28.40370	20 38 23.673	−19 25 17.52	2019 NX_{76}	22.3	w	F51
2019 QG_{74}	2019 08 28.98383	20 38 03.00	−19 26 40.1	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 28.98556	20 38 02.94	−19 26 40.3	2019 NX_{76}			W84
2019 QG_{74}	2019 08 29.19480	20 37 55.04	−19 27 11.8	2019 NX_{76}			W84
2019 QG_{74}	2019 08 29.99087	20 37 27.61	−19 29 07.3	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 29.99432	20 37 27.48	−19 29 07.7	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 29.99603	20 37 27.42	−19 29 08.0	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 29.99775	20 37 27.36	−19 29 08.3	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.00120	20 37 27.23	−19 29 08.8	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.00463	20 37 27.11	−19 29 09.3	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.00635	20 37 27.05	−19 29 09.6	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.00808	20 37 26.98	−19 29 09.8	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.00979	20 37 26.92	−19 29 10.1	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.01150	20 37 26.86	−19 29 10.4	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.01322	20 37 26.80	−19 29 10.7	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.01495	20 37 26.74	−19 29 10.9	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.01668	20 37 26.67	−19 29 11.1	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.01840	20 37 26.62	−19 29 11.4	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.02012	20 37 26.55	−19 29 11.7	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.02184	20 37 26.49	−19 29 11.9	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.02354	20 37 26.42	−19 29 12.2	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.02526	20 37 26.37	−19 29 12.4	2019 NX_{76}	22.8	V	W84
2019 QG_{74}	2019 08 30.02870	20 37 26.24	−19 29 12.9	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.03214	20 37 26.11	−19 29 13.3	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.03386	20 37 26.05	−19 29 13.7	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.03729	20 37 25.93	−19 29 14.2	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.03900	20 37 25.86	−19 29 14.6	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.04244	20 37 25.74	−19 29 15.0	2019 NX_{76}			W84
2019 QG_{74}	2019 08 30.04414	20 37 25.68	−19 29 15.3	2019 NX_{76}			W84

2019 QG_{74}	2019 08 30.04587	20 37 25.62	−19 29 15.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.04760	20 37 25.55	−19 29 15.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05109	20 37 25.43	−19 29 16.2	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05282	20 37 25.37	−19 29 16.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05453	20 37 25.30	−19 29 16.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05624	20 37 25.24	−19 29 17.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05800	20 37 25.17	−19 29 17.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.05972	20 37 25.11	−19 29 17.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.06143	20 37 25.06	−19 29 17.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.06316	20 37 24.99	−19 29 18.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.06660	20 37 24.86	−19 29 18.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.07006	20 37 24.74	−19 29 19.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.07348	20 37 24.61	−19 29 19.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.08037	20 37 24.36	−19 29 20.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.08211	20 37 24.30	−19 29 20.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.08385	20 37 24.23	−19 29 21.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.08557	20 37 24.17	−19 29 21.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.09418	20 37 23.86	−19 29 22.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.09589	20 37 23.79	−19 29 22.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.09934	20 37 23.67	−19 29 23.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.10462	20 37 23.48	−19 29 24.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.10805	20 37 23.35	−19 29 24.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.10978	20 37 23.29	−19 29 24.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.11150	20 37 23.23	−19 29 25.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.11321	20 37 23.17	−19 29 25.2	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.11494	20 37 23.10	−19 29 25.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.11838	20 37 22.98	−19 29 25.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.12183	20 37 22.85	−19 29 26.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.12527	20 37 22.72	−19 29 26.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.12870	20 37 22.60	−19 29 27.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.13042	20 37 22.53	−19 29 27.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.13385	20 37 22.41	−19 29 28.1	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.13557	20 37 22.35	−19 29 28.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.13729	20 37 22.29	−19 29 28.6	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.13901	20 37 22.22	−19 29 28.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.14246	20 37 22.10	−19 29 29.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.14589	20 37 21.97	−19 29 29.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.14762	20 37 21.91	−19 29 30.1	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.14935	20 37 21.85	−19 29 30.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.15106	20 37 21.78	−19 29 30.6	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.15279	20 37 21.72	−19 29 30.8	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.15623	20 37 21.60	−19 29 31.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.15796	20 37 21.54	−19 29 31.5	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.15968	20 37 21.47	−19 29 31.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16139	20 37 21.41	−19 29 32.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16311	20 37 21.34	−19 29 32.3	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16482	20 37 21.29	−19 29 32.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16655	20 37 21.22	−19 29 32.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16826	20 37 21.16	−19 29 32.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.16997	20 37 21.10	−19 29 33.2	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.17167	20 37 21.04	−19 29 33.4	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.17339	20 37 20.97	−19 29 33.7	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.17510	20 37 20.91	−19 29 33.9	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.17683	20 37 20.85	−19 29 34.1	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.18370	20 37 20.60	−19 29 35.0	2019 NX_{76}	W84
2019 QG_{74}	2019 08 30.18542	20 37 20.54	−19 29 35.3	2019 NX_{76}	W84
2019 UO_{123}	*2019 10 31.50237	10 18 47.60	+02 22 29.9	2014 SF_{385} 20.0 G	703
2019 UO_{123}	2019 10 31.50771	10 18 48.03	+02 22 28.7	2014 SF_{385} 19.3 G	703
2019 UO_{123}	2019 10 31.51305	10 18 48.50	+02 22 28.1	2014 SF_{385} 20.8 G	703
2019 UO_{123}	2019 10 31.51839	10 18 49.01	+02 22 25.4	2014 SF_{385} 20.3 G	703
2020 HH_{124}	*2020 04 27.41271	14 19 54.960	−14 43 26.79	2014 SN_{381} 21.6 w	F51
2020 HH_{124}	2020 04 27.42377	14 19 54.239	−14 43 24.66	2014 SN_{381} 21.6 w	F51
2020 HH_{124}	2020 04 27.43465	14 19 53.546	−14 43 22.69	2014 SN_{381} 21.4 w	F51
2020 HH_{124}	2020 04 27.44555	14 19 52.859	−14 43 20.58	2014 SN_{381} 21.5 w	F51
2020 JY_{34}	*2020 05 11.33475	13 47 11.340	−21 05 24.60	2021 PO_{15} 21.5 w	F52
2020 JY_{34}	2020 05 11.35703	13 47 10.419	−21 05 12.47	2021 PO_{15} 21.4 w	F52
2020 JY_{34}	2020 05 11.36816	13 47 09.964	−21 05 06.83	2021 PO_{15} 21.7 w	F52
2020 PU_{74}	2020 08 08.30952	19 43 27.670	−35 26 19.62	2019 GG_{41} 21.4 w	F51
2020 PU_{74}	*2020 08 08.31933	19 43 27.150	−35 26 21.54	2019 GG_{41} 21.6 w	F51
2020 PU_{74}	2020 08 08.32915	19 43 26.653	−35 26 23.81	2019 GG_{41} 21.5 w	F51
2020 WF_{18}	*2020 11 24.214408	04 01 43.13	+06 37 19.2	(515351) 20.41G	G96
2020 WF_{18}	2020 11 24.219558	04 01 42.78	+06 37 19.7	(515351) 20.22G	G96
2020 WF_{18}	2020 11 24.229803	04 01 42.03	+06 37 21.4	(515351) 20.58G	G96
2021 KZ_{15}	*2021 05 31.28733	14 50 39.587	−00 08 39.78	2021 JD_{41} 22.2 w	F51
2021 KZ_{15}	2021 05 31.31122	14 50 38.699	−00 08 41.92	2021 JD_{41} 22.2 w	F51
2021 KZ_{15}	2021 05 31.32317	14 50 38.267	−00 08 42.94	2021 JD_{41} 22.0 w	F51
2021 KA_{16}	*2021 05 19.194210	13 35 11.63	+05 28 06.1	2021 HQ_{25} 22.38G	V00
2021 KA_{16}	2021 05 19.199109	13 35 11.48	+05 28 06.7	2021 HQ_{25} 21.87G	V00
2021 KA_{16}	2021 05 19.204023	13 35 11.34	+05 28 07.5	2021 HQ_{25} 22.72G	V00
2021 KA_{16}	2021 05 19.208936	13 35 11.19	+05 28 06.6	2021 HQ_{25} 21.99G	V00
2021 PK_{40}	*2021 08 08.54129	01 27 08.255	−12 16 02.66	2016 JJ_{46} 22.5 w	F51
2021 PK_{40}	2021 08 08.55364	01 27 08.406	−12 16 05.90	2016 JJ_{46} 22.4 w	F51
2021 PK_{40}	2021 08 08.57861	01 27 08.660	−12 16 12.95	2016 JJ_{46} 22.7 w	F51
2021 PC_{60}	*2021 08 09.46396	22 01 16.715	−23 29 40.69	2021 OE_5 21.7 w	F51
2021 PC_{60}	2021 08 09.47526	22 01 16.118	−23 29 44.26	2021 OE_5 21.6 w	F51
2021 PC_{60}	2021 08 09.48659	22 01 15.540	−23 29 47.93	2021 OE_5 22.0 w	F51
2021 PC_{60}	2021 08 09.49788	22 01 14.942	−23 29 51.78	2021 OE_5 21.9 w	F51
2021 PC_{60}	2021 08 10.43355	22 00 28.172	−23 34 50.37	2021 OE_5 21.5 w	F51
2021 PC_{60}	2021 08 10.43437	22 00 28.124	−23 34 50.77	2021 OE_5 21.7 w	F51
2021 PC_{60}	2021 08 10.45020	22 00 27.289	−23 34 55.71	2021 OE_5 21.6 w	F51
2021 PC_{60}	2021 08 10.45103	22 00 27.245	−23 34 56.01	2021 OE_5 21.6 w	F51
2021 PC_{60}	2021 08 10.46721	22 00 26.401	−23 35 01.29	2021 OE_5 21.5 w	F51
2021 PC_{60}	2021 08 10.48512	22 00 25.437	−23 35 06.81	2021 OE_5 21.8 w	F51
2021 PC_{60}	2021 08 12.41835	21 58 47.020	−23 45 10.01	2021 OE_5 21.8 w	F51
2021 PC_{60}	2021 08 12.42870	21 58 46.467	−23 45 13.33	2021 OE_5 21.9 w	F51
2021 PC_{60}	2021 08 12.45084	21 58 45.293	−23 45 20.23	2021 OE_5 22.0 w	F51

IDENTIFICATIONS

The following identifications with numbered minor planets continue the list on *MPC* 132233:

		Note			Note
1997 CD_{21}	= (546056)	1	2012 SD_{17}	= (567150)	2
2016 QL_4	= (571719)	2	2012 SD_{17}	= (567150)	2
2015 RE_{84}	= (574791)	2	2010 TO_{21}	= (574629)	2

2009 DW_{20}	= (571771)	2	2008 UF_{366}	= (572940)	2
2003 GS_{30}	= (575602)	2	2016 EO_{114}	= (576057)	2
2017 XL_{26}	= (578454)	2	2008 CZ_{186}	= (578777)	2
2005 EG_{57}	= (579251)	2	2007 HB_{38}	= (580628)	2
2013 WJ_{69}	= (580662)	2	2010 FC_{14}	= (567224)	2
2010 CV_{169}	= (567368)	2	2010 GR_{159}	= (567371)	2
2008 UR_{236}	= (567924)	2	2003 US_{385}	= (568187)	2
2012 TT_{234}	= (568421)	2	2010 RG_{167}	= (568748)	2
2015 BC_{202}	= (568788)	2	2015 FD_{242}	= (568923)	2
2013 EZ_{73}	= (569033)	2	2008 UP_{312}	= (570081)	2
2016 ME_{3}	= (571139)	2	2009 BD_{123}	= (571678)	2
2012 UE_{64}	= (571846)	2	2011 VA_{15}	= (572250)	2
2015 BH_{315}	= (572609)	2	2015 BJ_{355}	= (572669)	2
2009 CU_{64}	= (573326)	2	2008 VL_{11}	= (574128)	2
2008 ST_{205}	= (574138)	2	2017 TN_{9}	= (574140)	2
2011 SF_{238}	= (575501)	2	2007 CS_{30}	= (575872)	2
2009 VF_{93}	= (578243)	2	2012 WD_{12}	= (578430)	2
2006 SB_{195}	= (578744)	2	2016 TO_{79}	= (578881)	2
2012 BW_{142}	= (579528)	2	2007 YM_{40}	= (579551)	2
2005 EP_{350}	= (567795)	2	2012 VV_{136}	= (571781)	2
2008 CB_{247}	= (572276)	2	2016 PX_{216}	= (572956)	2
2012 VZ_{136}	= (573435)	2	2016 PZ_{216}	= (574344)	2
2005 SX_{303}	= (575569)	2	2007 YL_{96}	= (575739)	2
2008 US_{415}	= (578157)	2	2012 WV_{43}	= (578422)	2
2005 GV_{240}	= (578568)	2	2014 GH_{87}	= (578695)	2
2010 TZ_{225}	= (567354)	2	2014 OZ_{457}	= (567520)	2
2008 CX_{246}	= (567641)	2	2006 OR_{40}	= (567722)	2
2010 MT_{150}	= (569056)	2	2014 WO_{600}	= (569113)	2
2011 VC_{34}	= (569286)	2	2009 WV_{296}	= (569731)	2
2010 VA_{268}	= (569854)	2	2010 TT_{226}	= (570505)	2
2011 UD_{478}	= (570773)	2	2003 GB_{67}	= (572094)	2
2006 DG_{226}	= (572575)	2	2011 TU_{22}	= (573155)	2
2018 WU_{9}	= (573429)	2	2015 GZ_{67}	= (574075)	2
2018 VP_{148}	= (580045)	2	2016 KX_{13}	= (580331)	2
2006 YH_{69}	= (578916)	2	2010 EA_{192}	= (578442)	2
2016 GN_{308}	= (576177)	2	2005 CY_{89}	= (576469)	2
2013 AR_{204}	= (576926)	2	2010 VC_{268}	= (574692)	2
2014 GJ_{87}	= (575430)	2			

Note 1: by P. Thomas. 2: by A. Doppler.

NUMBERING OF PERIODIC COMETS

Continuation to the list on *MPC* 133824–132234.

426P/2019 A7 = 2021 K4 (PANSTARRS)
427P/2017 S5 = 2021 L6 (ATLAS)
428P/2014 W12 = 2021 Q1 (Gibbs)
429P/2008 QP_{20} = 2021 M1 (LINEAR-Hill)
430P/2011 A2 = 2021 Q2 (Scotti)
431P/2015 Q1 = 2021 P5 (Scotti)
432P/2021 N4 = 2016 U2 (PANSTARRS)
433P = (248370)

OBSERVATIONS OF COMETS (AND A/ OBJECTS)

Observations are published here for the following observatory codes:

033 Karl Schwarzschild Observatory, Tautenburg. Observers S. Melnikov, C. Hoegner, U. Laux, F. Ludwig, B. Stecklum. Measurer B. Stecklum. 1.34-m $f/3$ Schmidt + CCD.

073 Bucharest. Observers D. Bertesteanu, M. Popescu.

094 Crimea-Simeïs. Observers A. Novichonok, A. Zhornichenko. 1.0-m $f/5.58$ reflector + CCD.

104 San Marcello Pistoiese. Observers L. Tesi, P. Bacci, M. Maestripieri. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m reflector + CCD.

107 Cavezzo. Observer M. Facchini. Measurer G. Corradini. 0.4-m $f/5.5$ reflector + CCD.

118 Astronomical and Geophysical Observatory, Modra. Observer J. Világi. 0.6-m $f/5.5$ reflector + CCD.

157 Frasso Sabino. Observers R. Haver, R. Gorelli. Measurer R. Haver. 0.37-m $f/6.70$ Cassegrain + CCD.

160 Castelmartini. Observers M. Jaeger, E. Prosperi, S. Prosperi. Measurer E. Prosperi. 0.36-m $f/10.2$ Schmidt-Cassegrain + CCD.

186 Kitab. Observer A. Novichonok. 0.36-m $f/8$ reflector + CCD.

190 Gissar. Observers A. M. Buriev, H. G. Asoev, U. O. Tolibova. 0.7-m $f/4$ reflector + CCD.

203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.36-m $f/5.76$ Schmidt-Cassegrain + CCD.

204 Schiaparelli Observatory. Observers F. Bellini, A. Aletti, L. Buzzi. 0.20-m $f/10.8$ reflector + CCD, 0.20-m $f/4$ reflector + CCD, 0.84-m $f/3.5$ reflector + CCD.

213 Observatorio Montcabre. Observers R. Naves, . Measurer M. Campas. 0.30-m $f/9.0$ reflector + CCD, .

215 Buchloe. Observer W. Hasubick. 0.44-m $f/4.6$ reflector + CCD.

232 Masquefa Observatory. Observer E. Reina. 0.25-m $f/7.7$ Schmidt-Cassegrain + CCD.

246 Kleť Observatory-KLENOT. Observers M. Tichý, J. Tichá, M. Honková. Measurer M. Tichý. 1.06-m $f/2.7$ reflector + 2048×2048 CCD.

247 Roving Observer. Observer A. De Pieri.

291 LPL/Spacewatch II. Observers T. H. Bressi, R. A. Mastaler, M. T. Read. 1.8-m $f/2.7$ reflector + CCD.

309 Cerro Paranal. Observer J. Agarwal.

349 Ageo. Observer K. Kadota. 0.25-m $f/5.0$ reflector + CCD.

367 Yatsuka. Observer H. Abe. 0.26-m $f/6.0$ reflector + CCD.

423 North Ryde. Observer S. G. McAndrew. 0.20-m $f/4$ hyperbolic astrograph + CCD.

445 Observatorio dÓntinyent. Observer M. Camarasa.

474 Mount John Observatory, Lake Tekapo. Observers A. C. Gilmore, P. M. Kilmartin. Measurer P. M. Kilmartin. 1.0-m $f/7.7$ reflector + CCD.

568 Mauna Kea. Observers E. Bufanda, K. J. Meech, J. Kleyna, J. V. Keane, R. Wainscoat, H. Januszewski, T. Burdullis, M. Laychak, C. Cunningham, L. Wells, N. Manset. Measurers M. Micheli, J. Kleyna, R. Weryk, R. Wainscoat. 3.6-m Canada-France-Hawaii Telescope + CCD.

587 Sormano. Observers E. Colzani, A. Fumagalli, A. Carcano. Measurer P. Sicoli. 0.5-m $f/6.8$ reflector + CCD.

595 Farra dÍsonzo. Observers U. Montanar, E. Pettarin. Measurer E. Pettarin. 0.40-m $f/5.15$ reflector + CCD.

644 Palomar Mountain/NEAT. Observers E. F. Helin, S. Pravdo, K. Lawrence, K. Kuluhiwa, M. Hicks, R. Thicksten. Measurer R. Matson. 1.2-m Schmidt + CCD.
658 Dominion Astrophysical Observatory. Observers D. D. Balam, C. E. Spratt. Measurers D. D. Balam, D. W. E. Green. 1.82-m reflector + CCD.
691 Steward Observatory, Kitt Peak-Spacewatch. Observers T. H. Bressi, M. T. Read, J. V. Scotti, R. A. Mastaler. 0.9-m $f/3$ reflector + CCD.
703 Catalina Sky Survey. Observers H. Groeller, R. A. Kowalski, G. J. Leonard, K. W. Wierzchos, D. Rankin. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, B. Gray. 0.68-m Schmidt + 10K CCD.
750 Hobbs Observatory, Fall Creek. Observer N. Moritz. Measurer W. Childs. 0.6-m $f/5$ Newtonian reflector + CCD.
807 Cerro Tololo Observatory, La Serena. Observers T. Linder, R. Holmes, L. Horn, S. S. Sheppard. 0.61-m $f/6.5$ astrograph + CCD, 4.0-m CTIO reflector + CCD.
851 Burke-Gaffney Observatory, Halifax. Observer F. D. Romanov. 0.61-m $f/6.5$ Corrected Dall-Kirkham + CCD.
858 Tebbutt Observatory, Edgewood. Observer F. B. Zoltowski. 0.51-m Schmidt-Cassegrain + CCD.
900 Moriyama. Observer Y. Ikari. 0.26-m $f/7.0$ reflector + CCD.
970 Chelmsford. Observer N. James. 0.28-m $f/10.0$ Schmidt-Cassegrain + CCD.
A03 Torredembarra. Observer J. Moreno.
A17 Guidestar Observatory, Weinheim. Observers M. Emmerich, S. Melchert. 0.36-m $f/6.0$ Schmidt-Cassegrain + CCD.
A29 Santa Maria a Monte. Observers M. Bachini, G. Succi. 0.4-m $f/5$ reflector + CCD.
A71 Stixendorf. Observers M. Jaeger, E. Prosperi, S. Prosperi. Measurer M. Jaeger. 0.3-m $f/4.0$ reflector + CCD, 0.30-m $f/4.0$ reflector + CCD, 0.28-m $f/2.2$ reflector + CCD, 0.35-m $f/4.2$ reflector + CCD.
A77 Observatoire Chante-Perdrix, Dauban. Observers J. Nicolas, J.-G. Bosch, F. Kugel. 0.41-m $f/3.3$ reflector + CCD, 0.4-m $f/2.8$ reflector + CCD.
A98 Observatory Mazzarot-1, Baran . Observer S. Shurpakov. 0.41-m $f/3.9$ Newtonian reflector + CCD, 0.41-m $f/3.9$ reflector + CCD.
B18 Terskol. Observers V. Kozlov, G. Butenko. Measurer M. Andreev. 0.6-m $f/12.8$ Cassegrain + CCD.
B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m $f/4.0$ reflector + CCD.
B72 Soerth. Observer B. Koch. 0.36-m $f/7.6$ Schmidt-Cassegrain + CCD + $f/7.6$ focal reducer.
B74 Santa Maria de Montmagastrell. Observer J. M. Bosch. 0.4-m $f/1.20$ Schmidt-Cassegrain + CCD.
B96 Brixiis Observatory, Kruibeke. Observer E. Bryssinck. 0.4-m $f/3.8$ reflector + CCD.
C10 Maisoncelles. Observer J.-F. Soulier. 0.30-m $f/3.8$ Newtonian reflector + CCD.
C23 Olmen. Observer A. Diepvens. 0.20-m $f/9$ refractor + CCD.
C32 Ka-Dar Observatory, TAU Station, Nizhny Arkhyz. Observer S. Korotkiy. 0.13-m $f/2$ refractor + CCD.
C35 Terrassa. Observer J. Aledo. 0.4-m $f/3.4$ reflector.
C36 Starry Wanderer Observatory, Baran . Observer S. Shurpakov. 0.20-m $f/4$ Schmidt + CCD.
C40 Kuban State University Astrophysical Observatory. Observers A. Ivanov, A. Barcov, V. Ivanov, V. Lysenko, N. Yakovenko, N. Ivanova, . Measurer A. Ivanov. 0.51-m $f/8$ reflector + CCD.
C43 Hoyerswerda. Observer P. Lindner. 0.30-m $f/6.3$ Schmidt-Cassegrain + CCD.
C47 Nonndorf. Observer G. Dangl. 0.25-m $f/4.8$ reflector + CCD.
C51 WISE. Observer Near-Earth Object Wide-field Infrared Survey Explorer. Measurers A. K. Mainzer, J. M. Bauer, T. Grav, J. R. Masiero, R. M. Cutri, J. W. Dailey, E. Kramer, J. Pittichová, E. L. Wright.
C53 NEOSSat. Observer C. Smith-Perez. Measurers D. D. Balam, D. W. E. Green, C. E. Spratt. 0.15-m reflector + CCD.
C57 TESS. Observer R. Vanderspek. Measurers J. Brown, E. Evans, E. Main, R. Rios, J. Ruprecht, J. Vaillancourt, J. Varey, H. Viggh, D. Woods. 0.10-m $f/1.4$ reflector + CCD.
C59 Yangwang-1. Observer Z. X. Wang. Measurer Q.-Z. Ye. 0.1-m $f/2$ refractor.
C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m $f/4.0$ reflector + CCD.
C82 Osservatorio Astronomico Nastro Verde, Sorrento. Observer N. Ruocco. 0.35-m $f/6.3$ Schmidt + CCD, 0.35-m $f/6.3$ Schmidt-Cassegrain + CCD.
D29 Purple Mountain Observatory, XuYi Station. Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu. Measurers H. B. Zhao, B. Li, H. Lu, G. Zhaori, Z. J. Xu. 1.04-m $f/1.8$ Schmidt + CCD.
D95 Kurihara. Observer T. Takahashi. 0.25-m $f/4.2$ reflector + CCD.
E89 Geyserland Observatory, Pukehangi. Observer R. Carstens. 0.25-m $f/4.6$ Schmidt-Cassegrain + CCD, 0.25-m $f/4.7$ Schmidt-Cassegrain + CCD.
E94 Possum Observatory, Gisborne. Observer J. Drummond. 0.41-m $f/4.5$ Newtonian reflector + CCD, 0.35-m $f/10$ Schmidt-Cassegrain + CCD.
F51 Pan-STARRS 1, Haleakala. Observers J. Bulger, T. Lowe, A. Schultz, M. Willman, I. Smith, K. Chambers. Measurers K. Chambers, S. Chastel, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, M. Huber, C.-C. Lin, E. Magnier, Y. Ramanjooloo, R. Wainscoat, R. Weryk, H. Gao. 1.8-m Ritchey- Chretien + CCD.
F52 Pan-STARRS 2, Haleakala. Observers J. Bulger, T. Dukes, T. Lowe, A. Schultz, M. Willman, I. Smith, K. Chambers. Measurers K. Chambers, S. Chastel, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, M. Huber, C.-C. Lin, E. Magnier, Y. Ramanjooloo, R. Wainscoat, R. Weryk, H. Gao. 1.8-m Ritchey-Chrétien + CCD.
F65 Haleakala-Faulkes Telescope North. Observers J. D. Armstrong, L. H. Berrigan, P. Breitenstein. 2.0-m $f/10$ reflector + CCD, 2.0-m Ritchey-Chretien + CCD.
G02 KYSUCE Observatory, Kysucke Nove Mesto. Observer M. Urbanik. 0.40-m $f/6.8$ reflector + CCD, 0.40-m $f/4.5$ reflector + CCD, , 0.40-m $f/4.5$ Corrected Dall-Kirkham + CCD.
G06 Dordrecht, Sterrenburg. Observer G. van Buitenen. 0.20-m $f/8$ Ritchey-Chretien + CCD + $f/5.4$ focal reducer.
G09 SWF Observatory, South Woodham Ferrers. Observer J. Vincent. 0.30-m reflector + CCD.
G18 ALMO Observatory, Padulle. Observers A. Valvasori, E. Guido. Measurer A. Valvasori. 0.30-m $f/4$ reflector + CCD.
G19 Immanuel Kant Observatory,Limbach. Observer I. Kuettner.
G20 Brignoles Observatory. Observer Y. Degot Longhi. 0.35-m $f/5.7$ reflector + CCD, 0.30-m $f/3.8$ reflector + CCD.
G23 Vulpecula Observatory, Budapest. Observer Z. Banfalvy. 0.15-m refractor + CCD.

G26 Fushan Observatory, Mt Shaohua. Observer W. Pei. 0.28-m $f/2$ Schmidt-Cassegrain + CCD.
G33 Wickede. Observer G. Neue. 0.27-m Schmidt-Cassegrain + CCD.
G34 Oberfrauendorf. Observer T. Felber. 0.35-m $f/6.3$ Schmidt-Cassegrain + CCD.
G40 Slooh.com Canary Islands Observatory. Observers N. Paul, E. Cortes, B. Lütkenhöner, M. Kumrucu-Lohmiller. 0.50-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.28-m $f/2.2$ Schmidt + CCD, 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.28-m Schmidt + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD.
G96 Mt. Lemmon Survey. Observers K. W. Wierzchos, D. Rankin, D. C. Fuls, H. Groeller, G. J. Leonard, R. A. Kowalski. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, B. Gray, J. A. Johnson, R. G. Matheny. 1.5-m reflector + 10K CCD.
H06 iTelescope Observatory, Mayhill. Observers K. Yoshimoto, H. Sato, M. Mattiazzo, T. Prystavski. 0.43-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.43-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.43-m $f/6.8$ reflector + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.50-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.51-m $f/4.5$ reflector + CCD.
H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers T. Linder, R. Holmes, L. Horn. 0.81-m $f/4.0$ astrograph + CCD, 0.76-m $f/3.0$ astrograph + CCD.
H47 Vicksburg. Observer C. Bell. 0.3-m $f/6.6$ Schmidt-Cassegrain + CCD.
I22 Abbey Ridge Observatory, Stillwater Lake. Observer F. D. Romanov. 0.35-m $f/6.2$ Schmidt-Cassegrain + CCD.
I41 Palomar Mountain–ZTF. Observers B. T. Bolin, Z. T. F. Collaboration, Q.-Z. Ye. Measurers B. T. Bolin, W.-H. Ip, Z.-Y. Lin, F. J. Masci, G. Helou, E. A. Kramer, T. A. Prince, Q.-Z. Ye. 1.2-m $f/2.4$ Schmidt.
I52 Steward Observatory, Mt. Lemmon Station. Observers H. Groeller, D. Rankin, K. W. Wierzchos, T. A. Pruyne, G. J. Leonard. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos. 1.0-m reflector + CCD.
I72 Observatorio Carpe-Noctem, Madrid. Observer J. L. Martin. 0.30-m $f/8$ Ritchey-Chrétien + CCD.
I81 Tarbatness Observatory, Portmahomack. Observer D. Buczynski. 0.35-m $f/6.0$ Schmidt-Cassegrain + CCD, , 0.3-m $f/4.0$ Newtonian reflector + CCD.
I88 Fuensanta de Martos. Observer J. Carrillo. 0.36-m $f/5$ reflector + CCD.
I89 iTelescope Observatory, Nerpio. Observers H. Sato, M. Mattiazzo. 0.32-m $f/8.0$ astrograph + CCD, 0.32-m $f/8$ astrograph + CCD.
J01 Observatorio Cielo Profundo, Leon. Observer J. Gonzalez. 0.20-m $f/6$ Ritchey-Chrétien + CCD, 0.20-m $f/5.8$ Ritchey-Chrétien + CCD.
J04 ESA Optical Ground Station, Tenerife. Observer P. Ruiz. Measurers M. Micheli, R. Kresken, D. Föhring, D. Koschny, L. Conversi, M. Busch, E. Schwab, A. Knöfel, M. Biesiada, U. Carsenty, E. Clerkin, D. Husar, T. Thommes, M. Tsyhankou, F. Hormuth. 1.0-m $f/4.4$ reflector + CCD.
J22 Tacande Observatory, La Palma. Observer K. Hills. 0.5-m $f/3.6$ astrograph + CCD, 0.5-m $f/2.9$ astrograph + CCD.
J36 Observatorio DiezALaOnce, Illana. Observer F. Gomez. 0.25-m $f/10$ Schmidt-Cassegrain + CCD, 0.25-m $f/11.0$ Schmidt-Cassegrain + CCD.
J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m $f/8.1$ Ritchey-Chretien + CCD.
J57 Centro Astronómico Alto Turia, Valencia. Observer A. Fornas. Measurers A. Fornas, G. Fornas, E. Arce, V. Mas.
J59 Observatorio Linceo, Santander. Observers J. Temprano, J. Ruiz. Measurer J. Temprano. 0.20-m $f/3.8$ reflector + CCD, 0.40-m $f/5.0$ Ritchey-Chrétien.
J95 Great Shefford. Observer P. Birtwhistle. 0.41-m $f/6.3$ Schmidt-Cassegrain + CCD.
K14 Observatorio de Sencelles. Observer M. Morales. 0.25-m $f/4$ reflector + CCD.
K19 PASTIS Observatory, Banon. Observer C. Demeautis. 0.16-m $f/3.3$ reflector + CCD.
K38 M57 Observatory, Saltrio. Observer G. Baj. 0.35-m $f/5.6$ Ritchey-Chrétien + CCD.
K40 Altdorf. Observer S. Beck. 0.2-m $f/2.8$ Newtonian reflector + CCD.
K47 BSCR Observatory, Santa Maria a Monte. Observer M. Bachini. 0.25-m $f/7$ reflector + CCD, 0.25-m $f/5.2$ reflector + CCD.
K51 Osservatorio del Celado, Castello Tesino. Observers M. Campestrin, G. Favero, R. Furgoni. Measurers M. Campestrin, R. Furgoni. 0.80-m $f/4$ reflector + CCD.
K62 Teplice Observatory. Observer Z. Moravec. 0.43-m $f/4.5$ reflector + CCD.
K73 Gravina in Puglia. Observer F. Taccogna. 0.15-m $f/6.3$ Newtonian reflector + CCD.
K74 Muensterschwarzach Observatory, Schwarzach. Observer C. Gerhard. 0.3-m $f/3.75$ Newtonian reflector + CCD.
K77 EHB01 Observatory, Engelhardsberg. Observer R. Fichtl. 0.40-m $f/2.6$ reflector + CCD.
K78 iota Scorpii Observatory, La Spezia. Observers G. Scarfi, L. Sannino. 0.40-m $f/6$ Ritchey-Chrétien + CCD, 0.40-m $f/6.0$ Ritchey-Chrétien + CCD.
K80 Platanus Observatory, Lusowko. Observer T. Kluwak. 0.28-m $f/2.2$ Schmidt + CCD.
K83 Beppe Forti Astronomical Observatory, Montelupo. Observers M. Tombelli, M. Lombardo, A. Mazzanti, M. Iozzi, E. Venticinque, T. Bitossi, A. Squilloni, M. Calamandrei, P. Fini, F. Bagnoli. Measurers M. Tombelli, F. Bernardi, G. Interrante. 0.40-m $f/8$ Ritchey-Chrétien + CCD, .
K85 Kelmis. Observer T. Hebbeker.
K87 Dettelbach Vineyard Observatory. Observer B. Haeusler. 0.3-m $f/8.0$ Schmidt-Cassegrain + CCD.
L01 Višnjan Observatory, Tican. Observers K. Korlević, J. Dragic, P. Dusevic, K. Floricic, L. Gelo, D. Grzinic, F. Hrzenjak, P. Jukic, S. Miljkovic, I. Paleka, V. K. Pavcnik, I. Perovic, E. Pettarin, D. Pujagic, L. Poropat, V. Dobos. Measurers D. Grzinic, I. Perovic, S. Miljkovic, I. Paleka, D. Pujagic, P. Jukic, K. Korlević. 1.0-m $f/2.9$ reflector + CCD.
L06 Sormano 2 Observatory, Bellagio Via Lattea. Observer G. Ventre. Measurers G. Ventre, P. Sicoli. 0.36-m Schmidt-Cassegrain + CCD.
L12 Koksijde. Observer G. Vandenbulcke.
L27 29PREMOTE Observatory, Dauban. Observer J.-F. Soulier. 0.25-m $f/3.5$ Newtonian reflector + CCD.
L34 Galhassin Robotic Telescope, Isnello. Observer A. Nastasi. 0.40-m $f/38.0$ reflector + CCD.

L39 Osservatorio Spica, Signa. Observer M. Bertini. 0.30-m Newtonian reflector + CCD.
L47 Osservatorio Astronomico, Piobbico. Observers A. Teseo, A. Annamelia. Measurer A. Teseo. 0.20-m $f/6.3$ Schmidt-Cassegrain + CCD.
L51 MARGO, Nauchnij. Observer G. Borisov. 0.65-m $f/1.5$ astrograph + CCD.
L54 Berthelot Observatory, Hunedoara. Observers A. Sonka, A. Nedelcu. Measurer A. Sonka. 0.38-m $f/8$ Ritchey-Chrétien + CCD.
L59 Compustar Observatory, Rouen. Observer B. Vauquelin. 0.4-m $f/6.35$ reflector + CCD.
L60 Popovich Observatory, Ivanivka. Observer I. Dulevich. Measurer S. Plaksa. 0.28-m $f/2.0$ Schmidt + CCD.
L63 HOB Observatory, Capraia Fiorentina. Observer M. Iozzi. 0.2-m $f/6.75$ Schmidt-Cassegrain + CCD.
L74 AstroColauri, Naples. Observer G. Morra.
L79 BOSZA Observatory, Szalanta. Observer A. Nagy Melykuti.
L81 Skygems Namibia Remote Observatory. Observers L. Buzzi, L. Demetz. Measurers L. Buzzi, G. Galli, A. Aletti. 0.51-m $f/6.7$ astrograph + CCD.
L85 BiAnto Observatory, Lauria. Observer M. Feraco. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.
L92 San Costantino. Observer T. Scarmato. 0.25-m Newtonian reflector + CCD.
N86 Xingming Observatory-KATS, Nanshan. Observers X. Gao, Q.-Z. Ye. Measurer Q.-Z. Ye. 0.28-m $f/2.2$ Schmidt.
P87 Hirao Observatory, Yamaguchi. Observer K. Yoshimoto. 0.20-m $f/8.0$ Ritchey-Chrétien + CCD + $f/5.4$ focal reducer.
Q02 Sakai Observatory, Osaka. Observer Y. Yamaguchi. 0.08-m $f/5.5$ refractor.
Q11 Shinshiro. Observer T. Ikemura. Measurer H. Sato. 0.35-m $f/5$ reflector + CCD.
Q21 Southern Utsunomiya. Observer H. Nohara. 0.4-m $f/3.8$ astrograph + CCD.
Q23 Sukagawa. Observer H. Sato. 0.25-m $f/4$ reflector + CCD.
Q38 Swan Hill. Observer M. Mattiazzo.
Q62 iTelescope Observatory, Siding Spring. Observers H. Sato, T. Prystavski. 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.50-m $f/4.4$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD.
Q63 Siding Spring-LCO A. Observers T. Santana-Ros, L. Conversi, M. Micheli. Measurer M. Micheli. 1.0-m $f/8$ Ritchey-Chrétien + CCD.
Q81 Caloundra West. Observer W. Conlon.
T05 ATLAS-HKO, Haleakala. Observers L. Denneau, J. Tonry, A. Heinze, H. Weiland. Measurers L. Denneau, J. Tonry, A. Heinze, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus. 0.5-m reflector + CCD.
T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, J. Tonry, A. Heinze, H. Weiland. Measurers L. Denneau, J. Tonry, A. Heinze, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus. 0.5-m reflector + CCD.
U55 Golden Ears Observatory, Maple Ridge. Observer B. Kumar. 0.36-m $f/2$ Schmidt-Cassegrain + CCD.
U83 Mount Laguna Observatory. Observer J. N. Purdum. 1.02-m $f/7.65$ Cassegrain reflector + CCD.
V06 Catalina Sky Survey-Kuiper. Observer D. C. Fuls. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos. 1.55-m reflector + 1K CCD.
V39 McDonald Observatory-LCO ELP B. Observer J. D. Armstrong. 1.0-m $f/8$ Ritchey-Chrétien + CCD.
W16 Pleasant Groves Observatory. Observer M. Holbrook. 0.36-m reflector + CCD.
W33 Transit Dreams Observatory, Campobello. Observer D. Wilde. 0.36-m Schmidt-Cassegrain + CCD.
W62 Comet Hunter Observatory2, New Ringgold. Observer J. Maikner. 0.30-m $f/3.8$ Riccardi-Honders + CCD.
W76 CHILESCOPE Observatory, Rio Hurtad. Observer D. Bertesteanu. Measurers D. Bertesteanu, M. Popescu. 1-m $f/6.7$ reflector + CCD.
W84 Cerro Tololo-DECam. Observer . Measurers F. Valdes, S. Deen. 4.0-m CTIO reflector, 4.0-m reflector + CCD.
W88 Slooh.com Chile Observatory, La Dehesa. Observers E. Cortes, N. Paul, B. Lütkenhöner. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.35-m $f/11.0$ Schmidt-Cassegrain + CCD.
W94 MAP, San Pedro de Atacama. Observers A. Maury, G. Attard. Measurers A. Maury, G. Attard, D. Parrott. 0.28-m $f/2.2$ Schmidt + CCD.
X02 Telescope Live, El Sauce. Observers E. Bryssinck, M. Rocchetto, E. Guido, M. Fulle, G. Milani, C. Nassef, G. Savini, A. Valvasori. Measurer E. Bryssinck. 0.61-m $f/6.5$ reflector + CCD.
X03 Observatoire SADR, Poroto. Observers J. L. Virlichie, P. Traverse. 0.35-m $f/4.7$ Newtonian reflector + CCD.
X31 Galileo Galilei Observatory, Oro Verde. Observer C. Fornari. 0.40-m $f/8$ Ritchey-Chrétien + CCD.
X74 Observatório Campo dos Amarais. Observer L. S. Amaral. 0.31-m $f/3.4$ Newtonian reflector + CCD.
Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros, P. Holvorcem. Measurer C. Jacques. 0.45-m $f/2.9$ reflector + CCD, 0.45-m $f/2.9$ astrograph + CCD, 0.28-m $f/2.2$ astrograph + CCD.
Z08 Telescope Live, Oria. Observers E. Bryssinck, M. Rocchetto, E. Guido, M. Fulle, G. Milani, C. Nassef, G. Savini, A. Valvasori. Measurers E. Bryssinck, E. Guido. 0.7-m $f/6$ reflector + CCD, 0.7-m $f/8$ Ritchey-Chretien + CCD.
Z10 PGC, Fregenal de la Sierra. Observer P. Carson. 0.32-m $f/8$ reflector, 0.32-m $f/8$ reflector + CCD.
Z17 Tenerife-LCO Aqawan A #2. Observer A. Hale. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.
Z31 Tenerife Observatory-LCO A, Tenerife. Observers T. Santana-Ros, L. Conversi, M. Micheli. Measurer R. Reszelewski.
Z40 El Manzanillo Observatory, Puerto de la Torre. Observer J. V. Martinez.
Z41 Irydeo Observatory, Camarma de Esteruelas. Observer F. Calvo. 0.16-m $f/3.3$ reflector + CCD.
Z45 Cosmos Observatory, Marbella. Observer F. Jackson. 0.35-m $f/5.6$ Ritchey-Chretien + CCD.
Z55 Uraniborg Observatory, Écija. Observer R. Farfan. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.
Z57 Observatorio Zuben, Alhaurín de la Torre. Observer C. Malagon.
Z80 Northolt Branch Observatory. Observer G. Wells. Measurers J. Wells, D. Bamberger, G. Wells. 0.25-m $f/8.0$ Ritchey-Chrétien + CCD.
Z84 Calar Alto-Schmidt. Observer E. Schwab. Measurers E. Schwab, D. Koschny, M. Micheli, E. Petrescu. 0.8-m $f/3$ Schmidt + CCD.
Z99 Clixby Observatory, Cleethorpes. Observer A. Mickleburgh. 0.36-m $f/8$ Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
C/2010 U3 (Boattini)						
C/2010 U3	2019 07	18.865036	11 23 08.08	+60 43 06.4	16.0 G	C57
Geocentric position (km)			+130302.299	+30582.1130	+47923.7000	
C/2010 U3	2019 07	18.885869	11 23 09.33	+60 42 56.3	16.0 G	C57
Geocentric position (km)			+131437.094	+33909.9170	+48566.0880	
C/2010 U3	2019 07	18.906703	11 23 10.34	+60 42 47.3	16.0 G	C57
Geocentric position (km)			+132515.202	+37223.0740	+49187.5100	
C/2010 U3	2019 07	18.927536	11 23 11.27	+60 42 38.3	16.0 G	C57
Geocentric position (km)			+133538.470	+40520.8070	+49788.5550	
C/2010 U3	2019 07	18.948369	11 23 12.56	+60 42 29.1	16.1 G	C57
Geocentric position (km)			+134508.677	+43802.4200	+50369.7990	
C/2010 U3	2019 07	18.969203	11 23 13.18	+60 42 22.5	16.2 G	C57
Geocentric position (km)			+135427.538	+47067.2940	+50931.7980	
C/2010 U3	2019 07	18.990036	11 23 14.58	+60 42 10.5	16.2 G	C57
Geocentric position (km)			+136296.701	+50314.8790	+51475.0910	
C/2010 U3	2019 07	19.010869	11 23 15.48	+60 42 02.2	16.1 G	C57
Geocentric position (km)			+137117.751	+53544.6890	+52000.1990	
C/2010 U3	2019 07	19.031703	11 23 16.60	+60 41 54.2	16.3 G	C57
Geocentric position (km)			+137892.216	+56756.2940	+52507.6270	
C/2010 U3	2019 07	19.052536	11 23 17.65	+60 41 43.7	16.2 G	C57
Geocentric position (km)			+138621.562	+59949.3160	+52997.8630	
C/2010 U3	2019 07	19.073369	11 23 18.77	+60 41 33.5	16.3 G	C57
Geocentric position (km)			+139307.202	+63123.4270	+53471.3780	
C/2010 U3	2019 07	19.094203	11 23 19.88	+60 41 25.5	16.3 G	C57
Geocentric position (km)			+139950.490	+66278.3390	+53928.6290	
C/2010 U3	2019 07	19.115036	11 23 20.75	+60 41 16.1	16.2 G	C57
Geocentric position (km)			+140552.734	+69413.8070	+54370.0560	
C/2010 U3	2019 07	19.135869	11 23 21.99	+60 41 04.7	16.2 G	C57
Geocentric position (km)			+141115.186	+72529.6200	+54796.0850	
C/2010 U3	2019 07	19.156703	11 23 22.80	+60 40 57.3	16.1 G	C57
Geocentric position (km)			+141639.055	+75625.5990	+55207.1260	
C/2010 U3	2019 07	19.177536	11 23 23.75	+60 40 48.1	16.3 G	C57
Geocentric position (km)			+142125.500	+78701.5950	+55603.5770	
C/2010 U3	2019 07	19.198369	11 23 24.96	+60 40 39.7	16.3 G	C57
Geocentric position (km)			+142575.639	+81757.4880	+55985.8210	
C/2010 U3	2019 07	19.219203	11 23 25.93	+60 40 30.0	16.2 G	C57
Geocentric position (km)			+142990.544	+84793.1810	+56354.2300	
C/2010 U3	2019 07	19.240036	11 23 27.13	+60 40 20.2	16.2 G	C57
Geocentric position (km)			+143371.250	+87808.5990	+56709.1590	
C/2010 U3	2019 07	19.260869	11 23 28.15	+60 40 12.4	16.2 G	C57
Geocentric position (km)			+143718.751	+90803.6880	+57050.9570	
C/2010 U3	2019 07	19.281703	11 23 29.15	+60 40 02.1	16.3 G	C57
Geocentric position (km)			+144034.005	+93778.4130	+57379.9560	
C/2010 U3	2019 07	19.302536	11 23 30.33	+60 39 52.3	16.3 G	C57
Geocentric position (km)			+144317.933	+96732.7530	+57696.4790	
C/2010 U3	2019 07	19.323369	11 23 31.05	+60 39 45.7	16.2 G	C57
Geocentric position (km)			+144571.423	+99666.7050	+58000.8390	
C/2010 U3	2019 07	19.344203	11 23 32.44	+60 39 35.4	16.3 G	C57
Geocentric position (km)			+144795.330	+102580.279	+58293.3360	
C/2010 U3	2019 07	19.365036	11 23 33.73	+60 39 26.0	16.2 G	C57
Geocentric position (km)			+144990.479	+105473.497	+58574.2630	
C/2010 U3	2019 07	19.385869	11 23 34.60	+60 39 16.3	16.2 G	C57
Geocentric position (km)			+145157.662	+108346.392	+58843.9010	
C/2010 U3	2019 07	19.406703	11 23 35.77	+60 39 06.1	16.1 G	C57
Geocentric position (km)			+145297.646	+111199.008	+59102.5210	
C/2010 U3	2019 07	19.427536	11 23 36.56	+60 38 59.0	16.2 G	C57
Geocentric position (km)			+145411.168	+114031.397	+59350.3890	
C/2010 U3	2019 07	19.448369	11 23 37.76	+60 38 49.3	16.2 G	C57
Geocentric position (km)			+145498.941	+116843.620	+59587.7590	
C/2010 U3	2019 07	19.469203	11 23 38.68	+60 38 42.3	16.2 G	C57
Geocentric position (km)			+145561.650	+119635.745	+59814.8770	
C/2010 U3	2019 07	19.490036	11 23 39.73	+60 38 32.1	16.2 G	C57
Geocentric position (km)			+145599.960	+122407.848	+60031.9830	
C/2010 U3	2019 07	19.510869	11 23 40.63	+60 38 24.3	16.3 G	C57
Geocentric position (km)			+145614.509	+125160.010	+60239.3070	
C/2010 U3	2019 07	19.531703	11 23 41.88	+60 38 14.5	16.3 G	C57
Geocentric position (km)			+145605.916	+127892.315	+60437.0730	
C/2010 U3	2019 07	19.552536	11 23 42.93	+60 38 03.8	16.3 G	C57
Geocentric position (km)			+145574.777	+130604.856	+60625.4980	
C/2010 U3	2019 07	19.573369	11 23 43.84	+60 37 55.5	16.4 G	C57
Geocentric position (km)			+145521.668	+133297.728	+60804.7920	
C/2010 U3	2019 07	19.594203	11 23 44.93	+60 37 45.2	16.4 G	C57
Geocentric position (km)			+145447.147	+135971.029	+60975.1580	
C/2010 U3	2019 07	19.615036	11 23 46.01	+60 37 35.0	16.5 G	C57
Geocentric position (km)			+145351.752	+138624.862	+61136.7930	
C/2010 U3	2019 07	19.635869	11 23 46.91	+60 37 27.1	16.8 G	C57
Geocentric position (km)			+145236.005	+141259.332	+61289.8880	
C/2010 U3	2019 07	19.656703	11 23 48.17	+60 37 18.3	16.7 G	C57
Geocentric position (km)			+145100.407	+143874.546	+61434.6290	
C/2010 U3	2019 07	19.698369	11 23 50.16	+60 37 00.1	16.9 G	C57
Geocentric position (km)			+144771.598	+149047.648	+61699.7610	
C/2010 U3	2019 07	19.760869	11 23 53.30	+60 36 31.8	16.7 G	C57
Geocentric position (km)			+144141.199	+156665.685	+62039.1200	
C/2010 U3	2019 07	19.781702	11 23 54.28	+60 36 25.2	16.9 G	C57
Geocentric position (km)			+143896.211	+159167.727	+62137.3260	
C/2010 U3	2019 07	19.802536	11 23 55.34	+60 36 15.1	16.7 G	C57
Geocentric position (km)			+143634.475	+161651.312	+62228.3280	
C/2010 U3	2019 07	19.823369	11 23 56.41	+60 36 06.2	16.8 G	C57
Geocentric position (km)			+143356.382	+164116.558	+62312.2730	
C/2010 U3	2019 07	19.844202	11 23 57.55	+60 35 56.5	16.5 G	C57
Geocentric position (km)			+143062.310	+166563.583	+62389.3020	
C/2010 U3	2019 07	19.865036	11 23 58.52	+60 35 50.0	16.6 G	C57
Geocentric position (km)			+142752.625	+168992.506	+62459.5540	
C/2010 U3	2019 07	19.885869	11 23 59.66	+60 35 40.1	16.9 G	C57
Geocentric position (km)			+142427.682	+171403.443	+62523.1620	
C/2010 U3	2019 07	19.906702	11 24 00.71	+60 35 29.8	16.7 G	C57
Geocentric position (km)			+142087.826	+173796.514	+62580.2570	
C/2010 U3	2019 07	19.948369	11 24 02.80	+60 35 12.9	16.7 G	C57
Geocentric position (km)			+141364.707	+178529.529	+62675.4090	
C/2010 U3	2019 07	20.031702	11 24 06.89	+60 34 36.6	16.8 G	C57
Geocentric position (km)			+139753.618	+187786.333	+62792.9020	
C/2010 U3	2019 07	20.052536	11 24 08.15	+60 34 26.4	16.6 G	C57
Geocentric position (km)			+139318.229	+190057.623	+62807.7650	

C/2010 U3 2019 07 20.073369 11 24 08.89 +60 34 19.7 16.4 G C57
Geocentric position (km) +138870.352 +192311.978 +62817.0370
C/2010 U3 2019 07 20.094202 11 24 09.90 +60 34 08.4 16.4 G C57
Geocentric position (km) +138410.253 +194549.513 +62820.8210
C/2010 U3 2019 07 20.115036 11 24 10.85 +60 34 03.3 16.3 G C57
Geocentric position (km) +137938.192 +196770.339 +62819.2170
C/2010 U3 2019 07 20.135869 11 24 12.06 +60 33 50.5 16.4 G C57
Geocentric position (km) +137454.421 +198974.568 +62812.3220
C/2010 U3 2019 07 20.156702 11 24 13.25 +60 33 40.8 16.2 G C57
Geocentric position (km) +136959.183 +201162.313 +62800.2290
C/2010 U3 2019 07 20.177536 11 24 14.18 +60 33 33.2 16.3 G C57
Geocentric position (km) +136452.719 +203333.682 +62783.0330
C/2010 U3 2019 07 20.198369 11 24 15.21 +60 33 25.0 16.2 G C57
Geocentric position (km) +135935.261 +205488.786 +62760.8220
C/2010 U3 2019 07 20.219202 11 24 16.08 +60 33 14.7 16.4 G C57
Geocentric position (km) +135407.034 +207627.732 +62733.6840
C/2010 U3 2019 07 20.240036 11 24 17.21 +60 33 05.9 16.3 G C57
Geocentric position (km) +134868.260 +209750.627 +62701.7040
C/2010 U3 2019 07 20.260869 11 24 18.07 +60 32 55.6 16.4 G C57
Geocentric position (km) +134319.153 +211857.578 +62664.9680
C/2010 U3 2019 07 20.281702 11 24 19.12 +60 32 47.6 16.3 G C57
Geocentric position (km) +133759.922 +213948.690 +62623.5550
C/2010 U3 2019 07 20.302536 11 24 20.51 +60 32 37.1 16.2 G C57
Geocentric position (km) +133190.771 +216024.067 +62577.5460
C/2010 U3 2019 07 20.323369 11 24 21.32 +60 32 30.5 16.3 G C57
Geocentric position (km) +132611.900 +218083.812 +62527.0190
C/2010 U3 2019 07 20.344202 11 24 22.38 +60 32 21.0 16.4 G C57
Geocentric position (km) +132023.502 +220128.027 +62472.0480
C/2010 U3 2019 07 20.365036 11 24 23.51 +60 32 12.3 16.3 G C57
Geocentric position (km) +131425.766 +222156.813 +62412.7100
C/2010 U3 2019 07 20.385869 11 24 24.59 +60 32 02.0 16.3 G C57
Geocentric position (km) +130818.876 +224170.270 +62349.0750
C/2010 U3 2019 07 20.406702 11 24 25.75 +60 31 53.9 16.2 G C57
Geocentric position (km) +130203.014 +226168.497 +62281.2140
C/2010 U3 2019 07 20.427535 11 24 26.56 +60 31 45.6 16.2 G C57
Geocentric position (km) +129578.353 +228151.591 +62209.1980
C/2010 U3 2019 07 20.448369 11 24 27.69 +60 31 35.2 16.1 G C57
Geocentric position (km) +128945.067 +230119.649 +62133.0930
C/2010 U3 2019 07 20.469202 11 24 28.71 +60 31 27.1 16.1 G C57
Geocentric position (km) +128303.322 +232072.767 +62052.9660
C/2010 U3 2019 07 20.490035 11 24 29.87 +60 31 19.5 16.2 G C57
Geocentric position (km) +127653.282 +234011.039 +61968.8810
C/2010 U3 2019 07 20.510869 11 24 30.60 +60 31 09.2 16.2 G C57
Geocentric position (km) +126995.107 +235934.559 +61880.9020
C/2010 U3 2019 07 20.531702 11 24 31.80 +60 31 01.1 16.1 G C57
Geocentric position (km) +126328.952 +237843.418 +61789.0900
C/2010 U3 2019 07 20.552535 11 24 32.78 +60 30 50.8 16.1 G C57
Geocentric position (km) +125654.969 +239737.709 +61693.5060
C/2010 U3 2019 07 20.573369 11 24 33.82 +60 30 41.5 16.2 G C57
Geocentric position (km) +124973.309 +241617.522 +61594.2090
C/2010 U3 2019 07 20.615035 11 24 35.92 +60 30 24.6 16.3 G C57
Geocentric position (km) +123587.531 +245334.067 +61384.7060
C/2010 U3 2019 07 20.635869 11 24 36.84 +60 30 13.0 16.2 G C57
Geocentric position (km) +122883.696 +247170.975 +61274.6130
C/2010 U3 2019 07 20.656702 11 24 37.79 +60 30 03.9 16.2 G C57
Geocentric position (km) +122172.745 +248993.755 +61161.0320
C/2010 U3 2019 07 20.677535 11 24 38.77 +60 29 57.7 16.2 G C57
Geocentric position (km) +121454.812 +250802.492 +61044.0150
C/2010 U3 2019 07 20.698369 11 24 40.13 +60 29 46.5 16.2 G C57
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C/2010 U3	2019 08 07.906694	11 39 48.41	+58 22 33.6	16.1 G	C57		
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C/2010 U3	2019 08 08.094194	11 39 57.86	+58 21 21.1	16.0 G	C57		
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C/2010 U3	2019 08 08.115028	11 39 58.92	+58 21 08.0	16.2 G	C57		
Geocentric position (km)	−79717.9270	+397554.002	+ 699.0940				
C/2010 U3	2019 08 08.135861	11 40 00.00	+58 21 02.1	16.1 G	C57		
Geocentric position (km)	−80699.4780	+397354.606	+ 367.7460				
C/2010 U3	2019 08 08.156694	11 40 01.23	+58 20 54.4	16.1 G	C57		
Geocentric position (km)	−81679.4750	+397147.588	+ 36.4450				
C/2010 U3	2019 08 08.177528	11 40 01.94	+58 20 48.7	16.1 G	C57		
Geocentric position (km)	−82657.9000	+396932.950	− 294.8030				
C/2010 U3	2019 08 08.198361	11 40 02.91	+58 20 37.7	16.1 G	C57		
Geocentric position (km)	−83634.7340	+396710.698	− 625.9900				
C/2010 U3	2019 08 08.219194	11 40 04.13	+58 20 33.1	16.2 G	C57		
Geocentric position (km)	−84609.9570	+396480.835	− 957.1100				
C/2010 U3	2019 08 08.240027	11 40 05.20	+58 20 24.4	16.3 G	C57		
Geocentric position (km)	−85583.5520	+396243.364	− 1288.1560				
C/2010 U3	2019 08 08.260861	11 40 06.24	+58 20 14.0	16.3 G	C57		
Geocentric position (km)	−86555.4990	+395998.289	− 1619.1220				
C/2010 U3	2019 08 08.281694	11 40 07.44	+58 20 05.4	16.2 G	C57		
Geocentric position (km)	−87525.7790	+395745.613	− 1950.0010				
C/2010 U3	2019 08 08.323361	11 40 09.58	+58 19 48.0	16.3 G	C57		
Geocentric position (km)	−89461.2640	+395217.471	− 2611.4710				
C/2010 U3	2019 08 08.344194	11 40 10.41	+58 19 42.9	16.3 G	C57		
Geocentric position (km)	−90426.4310	+394942.010	− 2942.0500				
C/2010 U3	2019 08 08.365027	11 40 11.52	+58 19 32.1	16.1 G	C57		
Geocentric position (km)	−91389.8550	+394658.961	− 3272.5140				
C/2010 U3	2019 08 08.385861	11 40 12.36	+58 19 27.6	16.1 G	C57		
Geocentric position (km)	−92351.5170	+394368.325	− 3602.8590				
C/2010 U3	2019 08 08.406694	11 40 14.04	+58 19 15.9	16.0 G	C57		
Geocentric position (km)	−93311.3990	+394070.105	− 3933.0770				
C/2010 U3	2019 08 08.427527	11 40 15.07	+58 19 08.6	16.1 G	C57		
Geocentric position (km)	−94269.4800	+393764.303	− 4263.1620				
C/2010 U3	2019 08 08.448361	11 40 16.09	+58 18 59.4	15.9 G	C57		
Geocentric position (km)	−95225.7420	+393450.921	− 4593.1060				
C/2010 U3	2019 08 08.469194	11 40 17.03	+58 18 51.6	16.1 G	C57		
Geocentric position (km)	−96180.1650	+393129.962	− 4922.9040				
C/2010 U3	2019 08 08.490027	11 40 17.84	+58 18 43.5	16.1 G	C57		
Geocentric position (km)	−97132.7300	+392801.427	− 5252.5480				
C/2010 U3	2019 08 08.510861	11 40 19.09	+58 18 34.4	16.1 G	C57		
Geocentric position (km)	−98083.4170	+392465.318	− 5582.0320				
C/2010 U3	2019 08 08.531694	11 40 19.92	+58 18 28.7	16.0 G	C57		
Geocentric position (km)	−99032.2080	+392121.637	− 5911.3490				
C/2010 U3	2019 08 08.552527	11 40 21.08	+58 18 17.5	16.2 G	C57		
Geocentric position (km)	−99979.0820	+391770.385	− 6240.4930				
C/2010 U3	2019 08 08.573361	11 40 22.29	+58 18 10.7	15.8 G	C57		
Geocentric position (km)	−100924.019	+391411.564	− 6569.4570				
C/2010 U3	2019 08 08.594194	11 40 23.21	+58 18 04.5	16.1 G	C57		
Geocentric position (km)	−101867.001	+391045.174	− 6898.2340				
C/2010 U3	2019 08 08.615027	11 40 24.55	+58 17 52.0	16.1 G	C57		
Geocentric position (km)	−102808.007	+390671.217	− 7226.8170				
C/2010 U3	2019 08 08.635861	11 40 25.32	+58 17 48.5	16.1 G	C57		
Geocentric position (km)	−103747.018	+390289.694	− 7555.2000				
C/2010 U3	2019 08 08.656694	11 40 26.22	+58 17 36.2	16.3 G	C57		
Geocentric position (km)	−104684.013	+389900.606	− 7883.3750				
C/2010 U3	2019 08 08.677527	11 40 27.83	+58 17 31.0	16.2 G	C57		
Geocentric position (km)	−105618.973	+389503.953	− 8211.3370				
C/2010 U3	2019 08 08.698361	11 40 28.57	+58 17 22.2	16.2 G	C57		
Geocentric position (km)	−106551.877	+389099.735	− 8539.0790				
C/2010 U3	2019 08 08.719194	11 40 29.86	+58 17 13.5	16.2 G	C57		
Geocentric position (km)	−107482.706	+388687.954	− 8866.5930				
C/2010 U3	2019 08 08.740027	11 40 30.61	+58 17 07.3	16.1 G	C57		
Geocentric position (km)	−108411.440	+388268.608	− 9193.8720				
C/2010 U3	2019 08 08.760861	11 40 31.93	+58 16 57.2	16.0 G	C57		
Geocentric position (km)	−109338.057	+387841.700	− 9520.9110				
C/2010 U3	2019 08 08.781694	11 40 32.92	+58 16 49.6	16.0 G	C57		
Geocentric position (km)	−110262.537	+387407.228	− 9847.7020				
C/2010 U3	2019 08 08.802527	11 40 33.98	+58 16 39.5	16.3 G	C57		
Geocentric position (km)	−111184.861	+386965.192	−10174.2380				
C/2010 U3	2019 08 08.823361	11 40 35.29	+58 16 30.6	16.2 G	C57		
Geocentric position (km)	−112105.008	+386515.592	−10500.5130				
C/2010 U3	2019 08 08.844194	11 40 36.09	+58 16 25.2	16.2 G	C57		
Geocentric position (km)	−113022.956	+386058.428	−10826.5190				
C/2010 U3	2019 08 08.865027	11 40 37.18	+58 16 16.5	16.3 G	C57		
Geocentric position (km)	−113938.686	+385593.699	−11152.2500				
C/2010 U3	2019 08 08.885861	11 40 38.01	+58 16 07.8	16.2 G	C57		
Geocentric position (km)	−114852.176	+385121.404	−11477.6990				
C/2010 U3	2019 08 08.906694	11 40 39.15	+58 15 59.4	16.2 G	C57		
Geocentric position (km)	−115763.405	+384641.543	−11802.8580				
C/2010 U3	2019 08 08.927527	11 40 40.32	+58 15 47.1	16.4 G	C57		
Geocentric position (km)	−116672.353	+384154.114	−12127.7220				
C/2010 U3	2019 08 08.948361	11 40 41.49	+58 15 41.7	16.3 G	C57		
Geocentric position (km)	−117578.999	+383659.117	−12452.2820				
C/2010 U3	2019 08 08.969194	11 40 42.60	+58 15 34.1	16.5 G	C57		
Geocentric position (km)	−118483.320	+383156.550	−12776.5330				
C/2010 U3	2019 08 08.990027	11 40 43.69	+58 15 24.4	16.6 G	C57		
Geocentric position (km)	−119385.297	+382646.411	−13100.4660				
C/2010 U3	2019 08 09.010860	11 40 44.70	+58 15 17.2	16.6 G	C57		
Geocentric position (km)	−120284.906	+382128.700	−13424.0750				

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C/2010 U3 2019 09 07.677514 12 06 42.95 +55 15 56.3 16.6 G C57
Geocentric position (km) −194287.922 +266400.044 −44477.4690
C/2010 U3 2019 09 07.698347 12 06 44.29 +55 15 51.9 16.4 G C57
Geocentric position (km) −194754.255 +264941.125 −44680.8510
C/2010 U3 2019 09 07.719181 12 06 45.35 +55 15 47.9 16.4 G C57
Geocentric position (km) −195213.766 +263472.893 −44882.6050
C/2010 U3 2019 09 07.740014 12 06 46.50 +55 15 38.2 16.4 G C57
Geocentric position (km) −195666.381 +261995.327 −45082.7110
C/2010 U3 2019 09 07.760847 12 06 47.43 +55 15 31.7 16.2 G C57
Geocentric position (km) −196112.031 +260508.406 −45281.1490
C/2010 U3 2019 09 07.802514 12 06 49.92 +55 15 15.2 15.9 G C57
Geocentric position (km) −196982.140 +257506.405 −45672.9400
C/2010 U3 2019 09 07.823347 12 06 50.97 +55 15 09.5 16.2 G C57
Geocentric position (km) −197406.451 +255991.280 −45866.2510
C/2010 U3 2019 09 07.844181 12 06 51.98 +55 15 02.3 16.3 G C57
Geocentric position (km) −197823.498 +254466.709 −46057.8120
C/2010 U3 2019 09 07.865014 12 06 52.99 +55 15 00.3 16.1 G C57
Geocentric position (km) −198233.204 +252932.669 −46247.6000
C/2010 U3 2019 09 07.885847 12 06 53.78 +55 14 56.4 16.0 G C57
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C/2010 U3 2019 09 07.948347 12 06 57.11 +55 14 31.3 15.9 G C57
Geocentric position (km) −199797.033 +246701.341 −46988.5870
C/2010 U3 2019 09 08.010847 12 07 00.48 +55 14 11.3 16.4 G C57
Geocentric position (km) −200888.864 +241927.255 −47524.6110
C/2010 U3 2019 09 08.031681 12 07 01.00 +55 14 10.7 16.2 G C57
Geocentric position (km) −201236.918 +240316.604 −47699.4030
C/2010 U3 2019 09 08.302514 12 07 15.54 +55 12 38.7 16.5 G C57
Geocentric position (km) −204991.006 +218487.510 −49781.7780
C/2010 U3 2019 09 08.344180 12 07 17.52 +55 12 24.9 16.8 G C57
Geocentric position (km) −205433.541 +214980.318 −50068.6010
C/2010 U3 2019 09 08.365014 12 07 18.57 +55 12 19.8 16.4 G C57
Geocentric position (km) −205640.450 +213211.624 −50208.4180
C/2010 U3 2019 09 08.385847 12 07 19.92 +55 12 13.5 16.4 G C57
Geocentric position (km) −205837.631 +211432.830 −50345.7950
C/2010 U3 2019 09 08.406680 12 07 20.78 +55 12 06.6 16.4 G C57
Geocentric position (km) −206024.968 +209643.908 −50480.7000
C/2010 U3 2019 09 08.427514 12 07 21.72 +55 11 59.3 16.4 G C57
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Geocentric position (km) −206369.625 +206035.574 −50742.9570
C/2010 U3 2019 09 08.469180 12 07 23.68 +55 11 50.1 16.2 G C57
Geocentric position (km) −206526.699 +204216.108 −50870.2400
C/2010 U3 2019 09 08.490014 12 07 24.78 +55 11 41.6 16.4 G C57
Geocentric position (km) −206673.436 +202386.408 −50994.9120
C/2010 U3 2019 09 08.531680 12 07 26.93 +55 11 30.6 16.3 G C57
Geocentric position (km) −206935.379 +198696.193 −51236.2780
C/2010 U3 2019 09 08.552514 12 07 28.55 +55 11 21.4 16.1 G C57
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C/2010 U3 2019 09 08.573347 12 07 29.40 +55 11 15.9 16.3 G C57
Geocentric position (km) −207154.392 +194964.716 −51466.7560
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Geocentric position (km) −207247.458 +193083.436 −51577.8160
C/2010 U3 2019 09 08.677514 12 07 34.55 +55 10 41.3 16.4 G C57
Geocentric position (km) −207506.783 +185454.090 −51993.2540
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C/2010 U3 2019 09 08.719180 12 07 36.68 +55 10 29.2 16.4 G C57
Geocentric position (km) −207566.592 +181576.511 −52183.1030
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Geocentric position (km) −207578.491 +179621.903 −52273.4060
C/2010 U3 2019 09 08.760847 12 07 38.72 +55 10 15.4 16.3 G C57
Geocentric position (km) −207578.171 +177656.717 −52360.5680
C/2010 U3 2019 09 08.781680 12 07 40.25 +55 10 08.0 16.1 G C57
Geocentric position (km) −207565.466 +175680.926 −52444.5420
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Geocentric position (km) −207540.208 +173694.506 −52525.2800
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Geocentric position (km) −207502.224 +171697.431 −52602.7320
C/2010 U3 2019 09 08.844180 12 07 43.08 +55 09 53.2 16.5 G C57
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C/2010 U3 2019 09 08.865014 12 07 44.40 +55 09 41.4 16.4 G C57
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Geocentric position (km) −207219.465 +163602.112 −52878.6820
C/2010 U3 2019 09 08.927514 12 07 47.45 +55 09 25.9 16.3 G C57
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C/2010 U3 2019 09 09.198347 12 08 01.66 +55 07 57.3 16.9 G C57
Geocentric position (km) −204422.688 +133903.196 −53372.6480
C/2010 U3 2019 09 09.365013 12 08 09.98 +55 07 10.3 16.4 G C57
Geocentric position (km) −201385.933 +115967.441 −53274.8150

C/2010 U3	2019 09 09.448347	12 08 14.17	+55 06 38.8	15.9	G		C57
Geocentric position (km)	−199418.017	+106735.507	−53105.7420				
C/2010 U3	2019 09 09.469180	12 08 15.69	+55 06 32.8	15.9	G		C57
Geocentric position (km)	−198875.719	+104400.128	−53049.9440				
C/2010 U3	2019 09 09.552513	12 08 19.96	+55 06 15.6	16.3	G		C57
Geocentric position (km)	−196494.500	+94949.7300	−52769.4970				
C/2010 U3	2019 09 09.615013	12 08 22.53	+55 05 48.3	16.0	G		C57
Geocentric position (km)	−194475.107	+87748.6030	−52495.8660				
C/2010 U3	2019 09 09.635847	12 08 23.61	+55 05 44.4	16.3	G		C57
Geocentric position (km)	−193755.310	+85326.8880	−52391.9560				
C/2010 U3	2019 09 09.656680	12 08 25.28	+55 05 31.6	16.5	G		C57
Geocentric position (km)	−193011.453	+82894.6010	−52281.4810				
C/2010 U3	2019 09 09.677513	12 08 26.08	+55 05 31.9	16.5	G		C57
Geocentric position (km)	−192243.081	+80451.8100	−52164.3080				
C/2010 U3	2019 09 09.698347	12 08 27.25	+55 05 17.9	16.5	G		C57
Geocentric position (km)	−191449.725	+77998.5890	−52040.2980				
C/2010 U3	2019 09 09.740013	12 08 29.35	+55 05 06.4	16.3	G		C57
Geocentric position (km)	−189786.131	+73061.1940	−51771.1940				
C/2010 U3	2019 09 09.760846	12 08 30.41	+55 05 02.2	16.1	G		C57
Geocentric position (km)	−188914.890	+70577.2060	−51625.8030				
C/2010 U3	2019 09 09.927513	12 08 38.92	+55 04 05.4	16.7	G		C57
Geocentric position (km)	−180926.203	+50354.4550	−50181.0320				
C/2010 U3	2019 09 10.010846	12 08 43.36	+55 03 40.5	16.8	G		C57
Geocentric position (km)	−176189.313	+40026.4480	−49251.8540				
C/2010 U3	2019 09 10.073346	12 08 46.54	+55 03 20.1	16.5	G		C57
Geocentric position (km)	−172275.792	+32197.5380	−48453.6050				
C/2010 U3	2019 09 10.156680	12 08 50.60	+55 02 52.3	16.5	G		C57
Geocentric position (km)	−166536.138	+21664.8800	−47241.7330				
C/2010 U3	2019 09 10.177513	12 08 51.66	+55 02 44.0	16.7	G		C57
Geocentric position (km)	−165002.325	+19017.5600	−46910.6460				
C/2010 U3	2019 09 10.385846	12 09 02.13	+55 01 35.9	16.8	G		C57
Geocentric position (km)	−147216.669	− 7613.6990	−42896.2200				
C/2010 U3	2021 03 10.279612	13 54 36.94	+37 30 09.7	20.1	T		KW62
C/2010 U3	2021 03 10.287789	13 54 36.82	+37 30 10.3	20.0	T		KW62
C/2010 U3	2021 03 10.295955	13 54 36.53	+37 30 11.3	20.4	T		KW62
C/2010 U3	2021 05 13.113796	13 28 36.07	+36 48 53.3	20.4	T		KW62
C/2010 U3	2021 05 13.118715	13 28 35.95	+36 48 53.2	20.3	T		KW62
C/2010 U3	2021 05 13.124468	13 28 35.92	+36 48 51.6	20.1	T		KW62

C/2014 B1 (Schwartz)

C/2014 B1	2021 07 04.39213	13 20 18.20	+11 25 11.4				01Q62
C/2014 B1	2021 07 04.39725	13 20 18.22	+11 25 10.9	19.3	T		01Q62

C/2014 OG_{392} (PANSTARRS)

C/2014 OG_{392}	2021 09 05.08599	02 48 37.26	+06 45 12.8	20.3	T	K	215
C/2014 OG_{392}	2021 09 05.08844	02 48 37.24	+06 45 11.2	19.6	T	K	215
C/2014 OG_{392}	2021 09 05.09089	02 48 37.23	+06 45 11.2	19.7	T	K	215

C/2014 UN_{271} (Bernardinelli-Bernstein)

C/2014 UN_{271}	2021 06 26.35645	02 36 25.94	−51 17 45.7	19.8	T		17W76
C/2014 UN_{271}	2021 06 26.38497	02 36 26.25	−51 17 50.2	19.4	T		17W76
C/2014 UN_{271}	2021 06 26.41633	02 36 26.67	−51 17 55.5	19.9	T		17W76
C/2014 UN_{271}	2021 08 07.98549	02 42 03.64	−53 25 37.6				01L81
C/2014 UN_{271}	2021 08 08.00559	02 42 03.70	−53 25 42.0	20.3	T		01L81
C/2014 UN_{271}	2021 09 05.65436	02 40 45.08	−55 01 16.7	20.1	T	K	E94
C/2014 UN_{271}	2021 09 05.69768	02 40 44.74	−55 01 24.9	20.1	T	K	E94
C/2014 UN_{271}	2021 09 05.71221	02 40 44.53	−55 01 26.9	19.9	T	K	E94
C/2014 UN_{271}	2021 09 12.63489	02 39 45.77	−55 23 04.3	18.5	T	K	E94
C/2014 UN_{271}	2021 09 12.64372	02 39 45.65	−55 23 06.5	18.4	T	K	E94
C/2014 UN_{271}	2021 09 12.65275	02 39 45.45	−55 23 07.9	18.5	T	K	E94
C/2014 UN_{271}	2021 09 12.66149	02 39 45.41	−55 23 08.1	18.5	T	K	E94
C/2014 UN_{271}	2021 09 17.12355	02 38 59.75	−55 36 28.0	19.4	T	K	X31
C/2014 UN_{271}	2021 09 17.15857	02 38 59.31	−55 36 32.9	19.8	T	K	X31
C/2014 UN_{271}	2021 09 18.175214	02 38 48.14	−55 39 30.4	18.7	T	K	Y00
C/2014 UN_{271}	2021 09 18.183553	02 38 47.93	−55 39 32.4	18.7	T	K	Y00
C/2014 UN_{271}	2021 09 18.191892	02 38 47.85	−55 39 32.3	18.5	T	K	Y00
C/2014 UN_{271}	2021 09 19.180249	02 38 36.65	−55 42 25.2	18.7	T	K	Y00
C/2014 UN_{271}	2021 09 19.193802	02 38 36.49	−55 42 26.4	18.8	T	K	Y00
C/2014 UN_{271}	2021 09 19.207350	02 38 36.25	−55 42 28.8	18.7	T	K	Y00

C/2016 Q2 (PANSTARRS)

C/2016 Q2	2019 07 22.177535	19 57 29.80	+22 53 16.0	17.6	G		C57
Geocentric position (km)	+57554.9060	+348570.848	+46087.7560				
C/2016 Q2	2019 07 22.302535	19 57 24.36	+22 53 22.2	17.5	G		C57
Geocentric position (km)	+51557.6150	+354161.295	+44430.6350				
C/2016 Q2	2019 07 22.427535	19 57 19.02	+22 53 36.6	17.2	G		C57
Geocentric position (km)	+45505.2850	+359400.404	+42730.4770				
C/2016 Q2	2019 07 22.448368	19 57 18.22	+22 53 40.6	17.3	G		C57
Geocentric position (km)	+44491.7480	+360239.914	+42443.1570				
C/2016 Q2	2019 07 22.635868	19 57 09.96	+22 54 02.7	17.1	G		C57
Geocentric position (km)	+35315.9760	+367369.698	+39809.6780				
C/2016 Q2	2019 07 22.823368	19 57 02.55	+22 54 14.3	17.3	G		C57
Geocentric position (km)	+26059.0880	+373747.252	+37097.1610				
C/2016 Q2	2019 07 22.885868	19 56 59.45	+22 54 21.5	17.5	G		C57
Geocentric position (km)	+22959.1510	+375709.213	+36176.9660				
C/2016 Q2	2019 07 23.281701	19 56 42.69	+22 55 03.5	17.5	G		C57
Geocentric position (km)	+ 3218.3840	+386281.794	+30186.9900				
C/2016 Q2	2019 07 23.302534	19 56 41.49	+22 55 05.6	17.6	G		C57
Geocentric position (km)	+ 2176.1780	+386751.180	+29864.7660				
C/2016 Q2	2019 07 23.323368	19 56 41.06	+22 54 58.4	17.8	G		C57
Geocentric position (km)	+ 1133.8180	+387211.995	+29541.9140				
C/2016 Q2	2019 07 23.448368	19 56 35.38	+22 55 19.8	17.3	G		C57
Geocentric position (km)	− 5122.2430	+389797.897	+27592.1470				
C/2016 Q2	2019 07 23.573367	19 56 29.93	+22 55 21.6	17.5	G		C57
Geocentric position (km)	−11378.0380	+392079.614	+25622.1000				
C/2016 Q2	2019 07 23.865034	19 56 17.97	+22 55 46.5	17.6	G		C57
Geocentric position (km)	−25947.1210	+396239.936	+20956.8740				
C/2016 Q2	2019 07 23.906701	19 56 15.90	+22 55 59.4	17.4	G		C57
Geocentric position (km)	−28022.8120	+396702.848	+20283.6000				
C/2016 Q2	2019 07 24.344200	19 55 57.23	+22 56 36.7	17.7	G		C57
Geocentric position (km)	−49672.2750	+399616.733	+13134.2760				
C/2016 Q2	2019 07 24.365034	19 55 56.50	+22 56 36.2	17.6	G		C57
Geocentric position (km)	−50694.8490	+399667.741	+12790.8480				
C/2016 Q2	2019 07 24.406700	19 55 54.60	+22 56 40.2	17.6	G		C57
Geocentric position (km)	−52737.2510	+399746.051	+12103.3540				
C/2016 Q2	2019 07 24.448367	19 55 52.70	+22 56 40.4	17.8	G		C57
Geocentric position (km)	−54775.8640	+399792.808	+11415.0550				

C/2016 Q2 2019 07 24.469200 19 55 51.98 +22 56 40.1 17.4 G C57
Geocentric position (km) −55793.7020 +399804.374 +11070.6210
C/2016 Q2 2019 07 24.490034 19 55 51.06 +22 56 44.9 17.5 G C57
Geocentric position (km) −56810.5350 +399808.077 +10726.0080
C/2016 Q2 2019 07 24.531700 19 55 49.44 +22 56 46.2 17.5 G C57
Geocentric position (km) −58841.1100 +399791.918 +10036.2690
C/2016 Q2 2019 07 24.573367 19 55 47.33 +22 56 55.6 17.8 G C57
Geocentric position (km) −60867.4370 +399744.393 + 9345.8960
C/2016 Q2 2019 07 24.719200 19 55 41.20 +22 56 59.1 17.2 G C57
Geocentric position (km) −67923.9040 +399331.836 + 6925.3870
C/2016 Q2 2019 07 25.698367 19 54 59.56 +22 58 16.6 17.0 G C57
Geocentric position (km) −113407.233 +386757.396 − 9333.8910
C/2016 Q2 2019 07 25.760867 19 54 57.20 +22 58 17.7 17.0 G C57
Geocentric position (km) −116170.020 +385379.290 −10362.4130
C/2016 Q2 2019 08 02.969196 19 49 01.41 +23 05 46.2 17.2 G C57
Geocentric position (km) +146372.479 +171808.330 +59461.1300
C/2016 Q2 2019 08 02.990030 19 49 00.83 +23 05 52.1 17.4 G C57
Geocentric position (km) +146026.762 +174189.889 +59508.7190
C/2016 Q2 2019 08 03.073363 19 48 56.82 +23 05 54.0 17.8 G C57
Geocentric position (km) +144501.784 +183543.182 +59640.6640
C/2016 Q2 2019 08 03.177530 19 48 52.57 +23 05 54.7 17.6 G C57
Geocentric position (km) +142298.122 +194853.695 +59682.0190
C/2016 Q2 2019 08 03.448363 19 48 40.80 +23 06 05.3 17.6 G C57
Geocentric position (km) +135241.068 +222368.604 +59224.8620
C/2016 Q2 2019 08 03.469196 19 48 40.19 +23 06 01.7 17.6 G C57
Geocentric position (km) +134628.536 +224376.353 +59159.4100
C/2016 Q2 2019 08 03.781696 19 48 26.83 +23 06 04.1 17.5 G C57
Geocentric position (km) +124453.297 +252735.464 +57733.8090
C/2016 Q2 2019 08 03.906696 19 48 21.37 +23 06 10.4 17.4 G C57
Geocentric position (km) +119932.508 +263195.488 +56955.5090
C/2016 Q2 2019 08 04.260863 19 48 06.36 +23 06 11.4 18.2 G C57
Geocentric position (km) +106017.692 +290281.025 +54213.6350
C/2016 Q2 2019 08 04.427529 19 47 59.09 +23 06 12.3 17.6 G C57
Geocentric position (km) +99001.6830 +301790.732 +52685.8530
C/2016 Q2 2019 08 04.594196 19 47 52.64 +23 06 16.5 17.1 G C57
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C/2016 Q2 2019 08 04.615029 19 47 51.68 +23 06 15.3 17.4 G C57
Geocentric position (km) +90818.7760 +313844.808 +50811.4300
C/2016 Q2 2019 08 05.073362 19 47 31.57 +23 06 25.8 17.5 G C57
Geocentric position (km) +69798.9820 +339547.776 +45642.2320
C/2016 Q2 2019 08 05.115029 19 47 29.98 +23 06 28.5 17.7 G C57
Geocentric position (km) +67830.4860 +341631.446 +45136.4380
C/2016 Q2 2019 08 05.135862 19 47 28.93 +23 06 29.2 17.6 G C57
Geocentric position (km) +66843.2220 +342657.978 +44881.5280
C/2016 Q2 2019 08 05.177529 19 47 27.79 +23 06 26.4 17.6 G C57
Geocentric position (km) +64862.8750 +344680.628 +44367.7710
C/2016 Q2 2019 08 05.198362 19 47 26.88 +23 06 29.9 17.6 G C57
Geocentric position (km) +63869.8750 +345676.818 +44108.9550
C/2016 Q2 2019 08 06.156695 19 46 46.19 +23 06 40.9 17.4 G C57
Geocentric position (km) +16792.9180 +381163.968 +31061.1870
C/2016 Q2 2019 08 06.177528 19 46 45.37 +23 06 36.6 17.5 G C57
Geocentric position (km) +15750.9560 +381721.226 +30757.4370
C/2016 Q2 2019 08 06.302528 19 46 40.48 +23 06 40.5 17.3 G C57
Geocentric position (km) + 9492.8540 +384882.242 +28921.0630
C/2016 Q2 2019 08 06.552528 19 46 30.19 +23 06 39.9 17.7 G C57
Geocentric position (km) − 3039.5030 +390279.003 +25183.4660
C/2016 Q2 2019 08 06.573362 19 46 29.02 +23 06 38.8 17.6 G C57
Geocentric position (km) − 4083.8850 +390673.807 +24868.4750
C/2016 Q2 2019 08 06.677528 19 46 24.62 +23 06 50.6 17.3 G C57
Geocentric position (km) − 9303.8300 +392522.626 +23286.1780
C/2016 Q2 2019 08 06.698361 19 46 23.47 +23 06 51.0 17.6 G C57
Geocentric position (km) −10347.2760 +392867.462 +22968.3090
C/2016 Q2 2019 08 06.760861 19 46 21.02 +23 06 47.5 17.4 G C57
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C/2016 Q2 2019 08 06.802528 19 46 19.37 +23 06 46.0 17.8 G C57
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C/2016 Q2 2019 08 06.823361 19 46 18.62 +23 06 49.1 17.9 G C57
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C/2016 Q2 2019 08 06.844195 19 46 17.70 +23 06 49.3 17.9 G C57
Geocentric position (km) −17643.7380 +395050.532 +20731.0940
C/2016 Q2 2019 08 06.885861 19 46 16.25 +23 06 44.5 17.5 G C57
Geocentric position (km) −19725.3570 +395600.527 +20088.2330
C/2016 Q2 2019 08 06.948361 19 46 13.31 +23 06 50.7 17.4 G C57
Geocentric position (km) −22844.6840 +396364.306 +19121.2420
C/2016 Q2 2019 08 07.573361 19 45 47.26 +23 06 54.3 17.5 G C57
Geocentric position (km) −53713.0790 +400046.231 + 9308.8610
C/2016 Q2 2019 08 07.656694 19 45 43.57 +23 06 52.3 17.5 G C57
Geocentric position (km) −57768.3180 +400002.271 + 7987.2110
C/2016 Q2 2021 08 13.92644 15 49 01.31 +52 25 07.9 18.8 T K C23
C/2016 Q2 2021 08 13.93149 15 49 00.75 +52 25 04.4 18.5 T K C23
C/2016 Q2 2021 08 14.271406 15 48 49.235 +52 22 47.61 20.66w F51
C/2016 Q2 2021 08 14.284711 15 48 48.783 +52 22 42.18 20.58w F51
C/2016 Q2 2021 08 14.298299 15 48 48.327 +52 22 36.99 20.31w F51
C/2016 Q2 2021 08 14.311640 15 48 47.828 +52 22 31.06 20.24w F51
C/2016 Q2 2021 08 29.48212 15 42 12.73 +50 38 18.5 K Q11
C/2016 Q2 2021 08 29.48778 15 42 12.65 +50 38 16.1 18.7 T K Q11
C/2016 Q2 2021 08 29.49238 15 42 12.55 +50 38 14.3 K Q11
C/2016 Q2 2021 08 31.93328 15 41 30.47 +50 21 36.8 19.4 T K I81
C/2016 Q2 2021 08 31.93541 15 41 30.41 +50 21 35.8 19.2 T K I81
C/2016 Q2 2021 08 31.93755 15 41 30.33 +50 21 34.8 19.3 T K I81
C/2016 Q2 2021 09 07.99616 15 39 59.02 +49 34 25.7 19.5 T K I81
C/2016 Q2 2021 09 07.99826 15 39 58.95 +49 34 24.7 19.4 T K I81
C/2016 Q2 2021 09 08.00037 15 39 58.91 +49 34 23.7 19.2 T K I81

C/2017 B3 (LINEAR)

C/2017 B3 2021 08 11.94165 00 45 37.18 +21 34 25.8 19.1 T K 215
C/2017 B3 2021 08 11.94294 00 45 37.17 +21 34 25.7 19.2 T K 215
C/2017 B3 2021 08 11.94423 00 45 37.12 +21 34 25.3 18.7 T K 215
C/2017 B3 2021 08 11.99273 00 45 36.12 +21 34 33.7 18.6 T K C23
C/2017 B3 2021 08 11.99850 00 45 36.26 +21 34 33.7 18.9 T K C23
C/2017 B3 2021 08 13.99229 00 45 02.69 +21 39 07.0 19.2 T K C23
C/2017 B3 2021 08 13.99950 00 45 02.67 +21 39 10.4 19.1 T K C23
C/2017 B3 2021 08 15.525601 00 44 35.69 +21 42 29.4 19.44c T08
C/2017 B3 2021 08 15.527445 00 44 35.66 +21 42 29.2 19.41c T08
C/2017 B3 2021 08 15.533054 00 44 35.55 +21 42 29.8 19.46c T08

C/2017 B3	2021 08 15.563422	00 44 34.96	+21 42 34.6	19.73c	T08
C/2017 B3	2021 08 17.499347	00 43 59.46	+21 46 35.5	19.10o	T05
C/2017 B3	2021 08 17.501176	00 43 59.57	+21 46 34.8	19.30o	T05
C/2017 B3	2021 08 17.504388	00 43 59.33	+21 46 35.1	19.41o	T05
C/2017 B3	2021 08 17.509881	00 43 59.16	+21 46 35.8	19.44o	T05
C/2017 B3	2021 08 20.476281	00 43 01.961	+21 52 21.57	21.11i	F51
C/2017 B3	2021 08 20.488843	00 43 01.711	+21 52 22.75	21.10i	F51
C/2017 B3	2021 08 20.501571	00 43 01.430	+21 52 24.19	21.19i	F51
C/2017 B3	2021 09 06.428166	00 36 32.54	+22 14 42.3	18.44G	G96
C/2017 B3	2021 09 06.433870	00 36 32.42	+22 14 42.9	18.49G	G96
C/2017 B3	2021 09 06.439587	00 36 32.25	+22 14 42.8	18.38G	G96
C/2017 B3	2021 09 06.445284	00 36 32.13	+22 14 43.0	18.53G	G96
C/2017 B3	2021 09 07.99104	00 35 52.45	+22 15 51.1	18.8 T	K C23
C/2017 B3	2021 09 07.99682	00 35 52.27	+22 15 53.5	18.9 T	K C23
C/2017 B3	2021 09 09.545686	00 35 11.805	+22 16 53.58	20.68w	F52
C/2017 B3	2021 09 09.556696	00 35 11.484	+22 16 53.86	20.96w	F52
C/2017 B3	2021 09 09.567706	00 35 11.209	+22 16 54.38	20.75w	F52
C/2017 B3	2021 09 10.406288	00 34 49.04	+22 17 20.2	19.48c	T05
C/2017 B3	2021 09 10.431694	00 34 48.36	+22 17 22.7	19.41c	T05
C/2017 B3	2021 09 10.434900	00 34 48.31	+22 17 23.9	19.70c	T05
C/2017 B3	2021 09 10.438100	00 34 48.13	+22 17 22.0	19.58c	T05

C/2017 K2 (PANSTARRS)

C/2017 K2	2021 03 31.14326	18 28 07.40	+39 19 39.9		K K85
C/2017 K2	2021 03 31.15159	18 28 07.38	+39 19 42.7		K K85
C/2017 K2	2021 05 12.88838	18 14 53.86	+42 49 37.7		K K85
C/2017 K2	2021 05 12.89682	18 14 53.56	+42 49 39.5		K K85
C/2017 K2	2021 05 31.90146	18 00 47.71	+43 32 31.5		K85
C/2017 K2	2021 05 31.91119	18 00 47.21	+43 32 32.0		K85
C/2017 K2	2021 06 07.91355	17 54 39.92	+43 34 07.4		K85
C/2017 K2	2021 06 07.92189	17 54 39.46	+43 34 07.1		K85
C/2017 K2	2021 06 08.90230	17 53 46.38	+43 33 38.2		K85
C/2017 K2	2021 06 08.90786	17 53 46.08	+43 33 38.3		K85
C/2017 K2	2021 06 10.91681	17 51 56.25	+43 32 05.6		K85
C/2017 K2	2021 06 10.92583	17 51 55.76	+43 32 04.9		K85
C/2017 K2	2021 06 12.89824	17 50 06.77	+43 29 49.4		K85
C/2017 K2	2021 06 12.90448	17 50 06.41	+43 29 48.9		K85
C/2017 K2	2021 06 16.90959	17 46 22.44	+43 22 54.9		K K85
C/2017 K2	2021 06 16.91306	17 46 22.25	+43 22 54.7		K K85
C/2017 K2	2021 07 02.90620	17 31 25.54	+42 23 53.5		K85
C/2017 K2	2021 07 02.92494	17 31 24.51	+42 23 47.4		K85
C/2017 K2	2021 07 04.90153	17 29 37.00	+42 12 59.7		K85
C/2017 K2	2021 07 04.903331	17 29 36.88	+42 12 59.1		118
C/2017 K2	2021 07 04.905862	17 29 36.75	+42 12 58.2		118
C/2017 K2	2021 07 04.908392	17 29 36.59	+42 12 57.3		118
C/2017 K2	2021 07 04.910923	17 29 36.48	+42 12 56.4		118
C/2017 K2	2021 07 04.91403	17 29 36.30	+42 12 55.4		K85
C/2017 K2	2021 07 04.916030	17 29 36.17	+42 12 54.6		118
C/2017 K2	2021 07 04.918561	17 29 36.05	+42 12 53.9		118
C/2017 K2	2021 07 05.902400	17 28 43.06	+42 07 14.4		118
C/2017 K2	2021 07 05.910049	17 28 42.66	+42 07 11.6		118
C/2017 K2	2021 07 05.930334	17 28 41.57	+42 07 04.4		118
C/2017 K2	2021 07 05.940457	17 28 41.03	+42 07 01.0		118
C/2017 K2	2021 07 05.943028	17 28 40.88	+42 07 00.2		118
C/2017 K2	2021 07 05.950621	17 28 40.48	+42 06 57.4		118
C/2017 K2	2021 07 06.89839	17 27 49.85	+42 01 19.3		K85
C/2017 K2	2021 07 06.91020	17 27 49.21	+42 01 15.0		K85
C/2017 K2	2021 07 09.85068	17 25 14.57	+41 42 40.4		K 107
C/2017 K2	2021 07 09.88008	17 25 13.02	+41 42 28.8		K 107
C/2017 K2	2021 07 09.90949	17 25 11.51	+41 42 17.2		K 107
C/2017 K2	2021 07 17.89146	17 18 35.17	+40 43 50.2		K K85
C/2017 K2	2021 07 17.91031	17 18 34.27	+40 43 41.1		K K85
C/2017 K2	2021 07 19.88979	17 17 02.20	+40 27 29.2		K K85
C/2017 K2	2021 07 19.90244	17 17 01.62	+40 27 22.9		K K85
C/2017 K2	2021 07 20.89301	17 16 16.59	+40 19 01.9		K K85
C/2017 K2	2021 07 20.89926	17 16 16.30	+40 18 58.9		K K85
C/2017 K2	2021 07 28.92330	17 10 38.61	+39 05 50.6	14.4 T	204
C/2017 K2	2021 07 28.96103	17 10 37.11	+39 05 28.1		204
C/2017 K2	2021 08 04.92145	17 06 27.11	+37 54 49.5	13.9 T	02G40
C/2017 K2	2021 08 04.92647	17 06 26.92	+37 54 46.2	13.9 T	02G40
C/2017 K2	2021 08 04.93256	17 06 26.75	+37 54 42.2	13.9 T	02G40
C/2017 K2	2021 08 04.98663	17 06 24.90	+37 54 07.9	14.7 T	970
C/2017 K2	2021 08 04.99245	17 06 24.72	+37 54 04.2	14.7 T	970
C/2017 K2	2021 08 05.54615	17 06 06.72	+37 48 11.4		P87
C/2017 K2	2021 08 05.55593	17 06 06.41	+37 48 04.9	13.1 T	P87
C/2017 K2	2021 08 05.84295	17 05 57.23	+37 45 01.0	14.6 N	C35
C/2017 K2	2021 08 05.84780	17 05 57.02	+37 44 59.1	14.6 N	C35
C/2017 K2	2021 08 05.848709	17 05 57.00	+37 44 58.4	15.0 T	K K14
C/2017 K2	2021 08 05.84963	17 05 56.98	+37 44 57.5	14.7 N	C35
C/2017 K2	2021 08 05.856267	17 05 56.75	+37 44 53.7	15.0 T	K K14
C/2017 K2	2021 08 05.87799	17 05 56.06	+37 44 39.4	14.7 N	232
C/2017 K2	2021 08 05.87836	17 05 56.06	+37 44 39.3	14.8 N	C35
C/2017 K2	2021 08 05.88015	17 05 55.99	+37 44 38.1	14.8 N	C35
C/2017 K2	2021 08 05.88194	17 05 55.92	+37 44 37.5	14.8 N	C35
C/2017 K2	2021 08 05.91449	17 05 54.85	+37 44 16.1	14.8 N	232
C/2017 K2	2021 08 05.92689	17 05 54.45	+37 44 08.6	14.8 N	232
C/2017 K2	2021 08 05.98859	17 05 52.44	+37 43 29.3	14.8 N	Z55
C/2017 K2	2021 08 05.98896	17 05 52.49	+37 43 28.1	14.7 N	Z55
C/2017 K2	2021 08 05.98934	17 05 52.44	+37 43 28.0	14.7 N	Z55
C/2017 K2	2021 08 05.98971	17 05 52.47	+37 43 28.2	14.7 N	Z55
C/2017 K2	2021 08 05.99008	17 05 52.45	+37 43 28.4	14.8 N	Z55
C/2017 K2	2021 08 06.00514	17 05 51.99	+37 43 18.2	15.2 T	Z10
C/2017 K2	2021 08 06.01244	17 05 51.71	+37 43 13.4	15.2 T	Z10
C/2017 K2	2021 08 06.02054	17 05 51.43	+37 43 08.5	15.3 T	Z10
C/2017 K2	2021 08 06.331902	17 05 41.59	+37 39 48.2	14.23o	T05
C/2017 K2	2021 08 06.337398	17 05 41.41	+37 39 44.7	14.22o	T05
C/2017 K2	2021 08 06.341079	17 05 41.29	+37 39 42.2	14.23o	T05
C/2017 K2	2021 08 06.352136	17 05 40.94	+37 39 35.1	14.21o	T05
C/2017 K2	2021 08 06.45045	17 05 37.96	+37 38 30.3	12.6 T	K Q21
C/2017 K2	2021 08 06.45571	17 05 37.81	+37 38 26.9	12.3 T	K Q21
C/2017 K2	2021 08 06.83494	17 05 25.82	+37 34 23.5	15.1 N	A77
C/2017 K2	2021 08 06.84160	17 05 25.62	+37 34 19.5	15.1 N	A77
C/2017 K2	2021 08 06.84633	17 05 25.51	+37 34 15.5	15.4 T	K K73
C/2017 K2	2021 08 06.84903	17 05 25.44	+37 34 14.1	15.2 N	A77
C/2017 K2	2021 08 06.85186	17 05 25.27	+37 34 12.0	15.2 T	K K73
C/2017 K2	2021 08 06.87369	17 05 24.60	+37 33 58.4	15.0 T	G20

C/2017 K2	2021 08 06.874936	17 05 24.65	+37 33 57.3	15.2	T		G09
C/2017 K2	2021 08 06.87960	17 05 24.40	+37 33 54.5	15.0	T		G20
C/2017 K2	2021 08 06.88009	17 05 24.39	+37 33 53.9	14.8	T		A77
C/2017 K2	2021 08 06.881074	17 05 24.40	+37 33 53.5	15.3	T		G09
C/2017 K2	2021 08 06.88588	17 05 24.20	+37 33 50.1	15.6	T		A77
C/2017 K2	2021 08 06.88593	17 05 24.21	+37 33 50.4	14.9	T		G20
C/2017 K2	2021 08 06.891595	17 05 24.02	+37 33 45.8	15.2	T		G09
C/2017 K2	2021 08 06.89167	17 05 24.00	+37 33 46.5	14.9	T		A77
C/2017 K2	2021 08 06.96169	17 05 21.79	+37 33 01.0	14.8	N		J01
C/2017 K2	2021 08 06.96626	17 05 21.67	+37 32 58.3	14.8	N		J01
C/2017 K2	2021 08 06.97313	17 05 21.45	+37 32 53.5	14.8	N		J01
C/2017 K2	2021 08 07.28875	17 05 11.83	+37 29 29.2	18	R		C51
Geocentric position (km)		− 1924.7782	− 4961.2409	+ 4306.8497			
C/2017 K2	2021 08 07.41953	17 05 07.81	+37 28 03.0				C51
Geocentric position (km)		− 1910.5481	− 4938.8800	+ 4338.6932			
C/2017 K2	2021 08 07.53385	17 05 04.85	+37 26 48.4	13.3	T		G26
C/2017 K2	2021 08 07.56095	17 05 04.12	+37 26 34.1	14.7	T		G26
C/2017 K2	2021 08 07.68095	17 04 59.81	+37 25 14.2	18	R		C51
Geocentric position (km)		− 1888.4583	− 4947.8651	+ 4338.1437			
C/2017 K2	2021 08 07.78644	17 04 56.61	+37 24 04.8	15.3	T	K	K73
C/2017 K2	2021 08 07.79325	17 04 56.39	+37 24 00.4	15.3	T	K	K73
C/2017 K2	2021 08 07.81160	17 04 55.88	+37 23 48.7				C51
Geocentric position (km)		− 1880.3472	− 4979.1538	+ 4305.8364			
C/2017 K2	2021 08 07.82828	17 04 55.31	+37 23 36.9	14.4	T		L92
C/2017 K2	2021 08 07.83862	17 04 55.01	+37 23 30.3	14.4	T		L92
C/2017 K2	2021 08 07.84968	17 04 54.63	+37 23 23.6	14.2	T		L92
C/2017 K2	2021 08 07.87693	17 04 53.86	+37 23 06.0				C51
Geocentric position (km)		− 1876.2143	− 4994.7147	+ 4289.6245			
C/2017 K2	2021 08 08.00770	17 04 49.93	+37 21 40.2				C51
Geocentric position (km)		− 1862.2125	− 4972.2820	+ 4321.5981			
C/2017 K2	2021 08 08.07303	17 04 48.00	+37 20 57.3				C51
Geocentric position (km)		− 1858.0597	− 4987.8656	+ 4305.4419			
C/2017 K2	2021 08 08.20368	17 04 44.09	+37 19 32.0				C51
Geocentric position (km)		− 1849.6039	− 5018.8981	+ 4272.9824			
C/2017 K2	2021 08 08.26913	17 04 42.11	+37 18 48.3				C51
Geocentric position (km)		− 1839.9533	− 4980.8865	+ 4321.2449			
C/2017 K2	2021 08 08.328092	17 04 40.28	+37 18 10.0	14.51c			T08
C/2017 K2	2021 08 08.331797	17 04 40.17	+37 18 07.7	14.53c			T08
C/2017 K2	2021 08 08.33445	17 04 40.12	+37 18 05.5				C51
Geocentric position (km)		− 1835.7315	− 4996.4795	+ 4305.0470			
C/2017 K2	2021 08 08.337333	17 04 40.00	+37 18 04.0	14.57c			T08
C/2017 K2	2021 08 08.347542	17 04 39.69	+37 17 57.2	14.54c			T08
C/2017 K2	2021 08 08.53004	17 04 34.38	+37 15 58.1				C51
Geocentric position (km)		− 1836.4361	− 5198.6602	+ 4058.9201			
C/2017 K2	2021 08 08.66120	17 04 30.47	+37 14 31.0				C51
Geocentric position (km)		− 1809.0139	− 5020.4149	+ 4288.5394			
C/2017 K2	2021 08 08.85725	17 04 24.64	+37 12 21.5	14.8	N		Z55
C/2017 K2	2021 08 08.85784	17 04 24.64	+37 12 21.2	14.8	N		Z55
C/2017 K2	2021 08 08.85844	17 04 24.66	+37 12 21.6	14.8	N		Z55
C/2017 K2	2021 08 08.85903	17 04 24.63	+37 12 20.4	14.8	N		Z55
C/2017 K2	2021 08 08.85962	17 04 24.62	+37 12 20.1	14.8	N		Z55
C/2017 K2	2021 08 08.95627	17 04 21.71	+37 11 15.2	14.5	T		I81
C/2017 K2	2021 08 08.95728	17 04 21.69	+37 11 14.6	14.4	T		I81
C/2017 K2	2021 08 08.96091	17 04 21.59	+37 11 12.4	14.5	T		I81
C/2017 K2	2021 08 08.96237	17 04 21.53	+37 11 11.4	14.4	T		I81
C/2017 K2	2021 08 08.96383	17 04 21.50	+37 11 10.3	14.4	T		I81
C/2017 K2	2021 08 08.96383	17 04 21.51	+37 11 10.2	14.4	T		I81
C/2017 K2	2021 08 08.97600	17 04 21.19	+37 11 03.8	14.3	T	K	213
C/2017 K2	2021 08 08.99032	17 04 20.69	+37 10 53.5			K	213
C/2017 K2	2021 08 09.01645	17 04 19.90	+37 10 35.5	15.1	T	K	213
C/2017 K2	2021 08 09.347588	17 04 10.36	+37 06 57.6	15.25o			T05
C/2017 K2	2021 08 09.350811	17 04 10.27	+37 06 54.9	14.13o			T05
C/2017 K2	2021 08 09.360962	17 04 09.96	+37 06 48.8	15.20o			T05
C/2017 K2	2021 08 09.367085	17 04 09.78	+37 06 43.9	14.09o			T05
C/2017 K2	2021 08 10.00513	17 03 51.56	+36 59 40.0	15.3	T		Z10
C/2017 K2	2021 08 10.01213	17 03 51.39	+36 59 35.5	15.2	T		Z10
C/2017 K2	2021 08 10.01990	17 03 51.17	+36 59 30.3	15.2	T		Z10
C/2017 K2	2021 08 10.83192	17 03 28.50	+36 50 24.9	14.6	T		215
C/2017 K2	2021 08 10.83424	17 03 28.48	+36 50 23.6	14.6	T		215
C/2017 K2	2021 08 10.83682	17 03 28.43	+36 50 22.5	14.7	T		215
C/2017 K2	2021 08 10.86039	17 03 27.80	+36 50 07.6	14.7	T		B96
C/2017 K2	2021 08 10.86697	17 03 27.61	+36 50 03.2	14.7	T		B96
C/2017 K2	2021 08 10.87354	17 03 27.43	+36 49 58.8	14.7	T		B96
C/2017 K2	2021 08 10.92532	17 03 25.98	+36 49 22.1	14.4	T		L12
C/2017 K2	2021 08 10.93235	17 03 25.74	+36 49 18.0	15.4	T		L12
C/2017 K2	2021 08 10.93458	17 03 25.73	+36 49 17.8	14.7	T	K	970
C/2017 K2	2021 08 10.93483	17 03 25.75	+36 49 17.5	14.7	T		I81
C/2017 K2	2021 08 10.93593	17 03 25.71	+36 49 16.9	14.7	T		I81
C/2017 K2	2021 08 10.93701	17 03 25.70	+36 49 16.0	14.6	T		I81
C/2017 K2	2021 08 10.93810	17 03 25.66	+36 49 15.5	14.6	T		I81
C/2017 K2	2021 08 10.93876	17 03 25.61	+36 49 14.8	14.7	T	K	970
C/2017 K2	2021 08 10.93938	17 03 25.54	+36 49 13.0	15.4	T		L12
C/2017 K2	2021 08 10.96458	17 03 24.88	+36 48 57.3	15.4	T		C23
C/2017 K2	2021 08 10.97035	17 03 24.73	+36 48 53.4	15.3	T		C23
C/2017 K2	2021 08 10.97468	17 03 24.61	+36 48 50.5	15.3	T		C23
C/2017 K2	2021 08 11.90160	17 02 59.67	+36 38 25.7	15.5	T	K	G02
C/2017 K2	2021 08 11.90509	17 02 59.59	+36 38 23.2	15.2	T	K	G02
C/2017 K2	2021 08 11.90931	17 02 59.46	+36 38 20.3	15.4	T	K	G02
C/2017 K2	2021 08 11.93619	17 02 58.91	+36 37 59.8	14.0	T	K	K47
C/2017 K2	2021 08 11.93895	17 02 58.66	+36 37 58.6	14.0	T	K	K47
C/2017 K2	2021 08 11.94171	17 02 58.60	+36 37 57.3	14.2	T	K	K47
C/2017 K2	2021 08 12.00611	17 02 56.93	+36 37 14.1	14.6	T		I81
C/2017 K2	2021 08 12.00751	17 02 56.89	+36 37 13.1	14.6	T		I81
C/2017 K2	2021 08 12.00892	17 02 56.85	+36 37 12.1	14.6	T		I81
C/2017 K2	2021 08 12.01175	17 02 56.75	+36 37 10.1	14.6	T		I81
C/2017 K2	2021 08 12.01317	17 02 56.74	+36 37 09.3	14.6	T		I81
C/2017 K2	2021 08 12.237616	17 02 50.86	+36 34 37.5				01 658
C/2017 K2	2021 08 12.243194	17 02 50.71	+36 34 33.7				01 658
C/2017 K2	2021 08 12.248785	17 02 50.57	+36 34 29.9				01 658
C/2017 K2	2021 08 12.254363	17 02 50.42	+36 34 26.1				01 658
C/2017 K2	2021 08 12.261053	17 02 50.25	+36 34 21.5				01 658
C/2017 K2	2021 08 12.328069	17 02 48.48	+36 33 36.4	14.51c			T08
C/2017 K2	2021 08 12.331406	17 02 48.39	+36 33 34.1	14.51c			T08
C/2017 K2	2021 08 12.341551	17 02 48.11	+36 33 27.1	14.52c			T08
C/2017 K2	2021 08 12.352208	17 02 47.83	+36 33 19.9	14.51c			T08
C/2017 K2	2021 08 12.827797	17 02 35.54	+36 27 56.2				118

C/2017 K2	2021 08 12.82981	17 02 35.54	+36 27 55.0	16.0	T	A77
C/2017 K2	2021 08 12.830352	17 02 35.49	+36 27 54.3			118
C/2017 K2	2021 08 12.83467	17 02 35.41	+36 27 51.7	16.0	T	A77
C/2017 K2	2021 08 12.838027	17 02 35.33	+36 27 49.0			118
C/2017 K2	2021 08 12.83953	17 02 35.28	+36 27 48.8	12.9	T	A77
C/2017 K2	2021 08 12.845691	17 02 35.11	+36 27 43.2			118
C/2017 K2	2021 08 12.96682	17 02 31.99	+36 26 20.7	14.7	T	K 970
C/2017 K2	2021 08 12.97056	17 02 31.89	+36 26 18.1	14.7	T	K 970
C/2017 K2	2021 08 13.300221	17 02 23.58	+36 22 33.0	14.03o		T05
C/2017 K2	2021 08 13.303423	17 02 23.49	+36 22 30.8	13.98o		T05
C/2017 K2	2021 08 13.309777	17 02 23.33	+36 22 26.4	14.04o		T05
C/2017 K2	2021 08 13.326835	17 02 22.89	+36 22 14.7	13.98o		T05
C/2017 K2	2021 08 13.54409	17 02 17.34	+36 19 38.5	13.4	T	G26
C/2017 K2	2021 08 13.57921	17 02 16.50	+36 19 21.1	14.0	T	G26
C/2017 K2	2021 08 13.83843	17 02 10.11	+36 16 22.3	13.5	T	A98
C/2017 K2	2021 08 13.84129	17 02 10.06	+36 16 20.1	13.3	T	A98
C/2017 K2	2021 08 13.84701	17 02 09.94	+36 16 16.2	13.3	T	A98
C/2017 K2	2021 08 13.85130	17 02 09.81	+36 16 13.4	13.4	T	A98
C/2017 K2	2021 08 13.85206	17 02 09.81	+36 16 14.4	14.7	T	B96
C/2017 K2	2021 08 13.85559	17 02 09.65	+36 16 11.1	13.5	T	A98
C/2017 K2	2021 08 13.85700	17 02 09.69	+36 16 10.7	14.7	T	B96
C/2017 K2	2021 08 13.86193	17 02 09.55	+36 16 07.5	14.7	T	B96
C/2017 K2	2021 08 13.89576	17 02 08.71	+36 15 44.1	15.3	T	C23
C/2017 K2	2021 08 13.90297	17 02 08.54	+36 15 39.2	15.2	T	C23
C/2017 K2	2021 08 13.91095	17 02 08.38	+36 15 33.6	14.6	T	I81
C/2017 K2	2021 08 13.91163	17 02 08.32	+36 15 33.2	15.3	T	C23
C/2017 K2	2021 08 13.91378	17 02 08.31	+36 15 31.5	14.6	T	I81
C/2017 K2	2021 08 13.91450	17 02 08.29	+36 15 31.2	14.6	T	I81
C/2017 K2	2021 08 13.91663	17 02 08.24	+36 15 29.6	14.6	T	I81
C/2017 K2	2021 08 13.92998	17 02 07.63	+36 15 17.3	14.6	N	J01
C/2017 K2	2021 08 13.93685	17 02 07.48	+36 15 12.7	14.7	N	J01
C/2017 K2	2021 08 13.94601	17 02 07.22	+36 15 06.4	14.6	N	J01
C/2017 K2	2021 08 14.836969	17 01 44.94	+36 04 26.2	15.1	T	G19
C/2017 K2	2021 08 14.839091	17 01 44.88	+36 04 24.4	15.1	T	G19
C/2017 K2	2021 08 14.83939	17 01 45.95	+36 04 53.6	14.5	T	204
C/2017 K2	2021 08 14.841208	17 01 44.84	+36 04 23.0	14.8	T	G19
C/2017 K2	2021 08 14.843419	17 01 44.81	+36 04 21.4	15.1	T	G19
C/2017 K2	2021 08 14.845978	17 01 44.70	+36 04 19.8	15.1	T	G19
C/2017 K2	2021 08 14.85241	17 01 45.63	+36 04 44.3			K85
C/2017 K2	2021 08 14.86204	17 01 45.40	+36 04 37.8	15.6	T	K 160
C/2017 K2	2021 08 14.86254	17 01 45.38	+36 04 37.2	14.7	T	B96
C/2017 K2	2021 08 14.86609	17 01 45.28	+36 04 35.4	15.5	T	K 160
C/2017 K2	2021 08 14.86628	17 01 45.28	+36 04 34.7			K85
C/2017 K2	2021 08 14.86743	17 01 45.25	+36 04 33.7	14.7	T	B96
C/2017 K2	2021 08 14.87014	17 01 45.19	+36 04 32.3	15.5	T	K 160
C/2017 K2	2021 08 14.87233	17 01 45.15	+36 04 30.4	14.7	T	B96
C/2017 K2	2021 08 14.88051	17 01 44.95	+36 04 25.1			204
C/2017 K2	2021 08 15.88415	17 01 21.62	+35 52 47.9	14.0	T	K47
C/2017 K2	2021 08 15.88628	17 01 21.57	+35 52 46.0	14.0	T	K47
C/2017 K2	2021 08 15.88841	17 01 21.54	+35 52 44.2	14.1	T	K47
C/2017 K2	2021 08 15.89011	17 01 21.46	+35 52 43.4	14.1	T	K47
C/2017 K2	2021 08 15.89223	17 01 21.42	+35 52 42.1	14.1	T	K47
C/2017 K2	2021 08 15.96851	17 01 19.71	+35 51 48.5	14.5	T	I81
C/2017 K2	2021 08 15.97233	17 01 19.61	+35 51 45.8	14.6	T	I81
C/2017 K2	2021 08 16.266174	17 01 13.04	+35 48 21.4	14.26o		T08
C/2017 K2	2021 08 16.273188	17 01 12.87	+35 48 16.6	14.31o		T08
C/2017 K2	2021 08 16.285891	17 01 12.58	+35 48 07.6	14.24o		T08
C/2017 K2	2021 08 16.291907	17 01 12.44	+35 48 03.7	15.58o		T08
C/2017 K2	2021 08 16.86870	17 00 59.67	+35 41 19.0	15.1	T	C23
C/2017 K2	2021 08 16.87303	17 00 59.57	+35 41 15.9	15.2	T	C23
C/2017 K2	2021 08 16.87442	17 00 59.56	+35 41 15.0	14.7	T	B96
C/2017 K2	2021 08 16.87736	17 00 59.47	+35 41 12.9	15.2	T	C23
C/2017 K2	2021 08 16.87932	17 00 59.43	+35 41 11.3	14.7	T	B96
C/2017 K2	2021 08 16.88421	17 00 59.34	+35 41 07.9	14.7	T	B96
C/2017 K2	2021 08 16.90616	17 00 58.82	+35 40 52.4	14.5	T	L85
C/2017 K2	2021 08 16.90747	17 00 58.86	+35 40 53.1	14.8	N	I72
C/2017 K2	2021 08 16.92659	17 00 58.40	+35 40 39.7	14.8	N	I72
C/2017 K2	2021 08 16.94552	17 00 58.01	+35 40 26.1	14.8	N	I72
C/2017 K2	2021 08 16.95239	17 00 57.86	+35 40 19.0	14.5	T	L85
C/2017 K2	2021 08 16.95553	17 00 57.77	+35 40 17.9	14.7	T	970
C/2017 K2	2021 08 16.96137	17 00 57.63	+35 40 13.8	14.7	T	970
C/2017 K2	2021 08 17.01311	17 00 56.52	+35 39 38.1	15.3	T	Z10
C/2017 K2	2021 08 17.01936	17 00 56.38	+35 39 33.3	15.3	T	Z10
C/2017 K2	2021 08 17.02562	17 00 56.22	+35 39 29.2	15.3	T	Z10
C/2017 K2	2021 08 17.322097	17 00 49.87	+35 36 00.6	14.02o		T05
C/2017 K2	2021 08 17.325320	17 00 49.79	+35 35 58.4	14.05o		T05
C/2017 K2	2021 08 17.332194	17 00 49.64	+35 35 53.5	14.01o		T05
C/2017 K2	2021 08 17.349449	17 00 49.26	+35 35 41.2	14.03o		T05
C/2017 K2	2021 08 17.82973	17 00 39.14	+35 30 03.4	14.7	N	232
C/2017 K2	2021 08 17.84831	17 00 38.77	+35 29 49.5	14.7	N	232
C/2017 K2	2021 08 17.86690	17 00 38.36	+35 29 36.7	14.6	N	232
C/2017 K2	2021 08 17.89855	17 00 37.67	+35 29 14.3	14.7	N	C35
C/2017 K2	2021 08 17.90037	17 00 37.64	+35 29 13.0	14.7	N	C35
C/2017 K2	2021 08 17.90216	17 00 37.60	+35 29 11.8	14.7	N	C35
C/2017 K2	2021 08 17.92924	17 00 37.01	+35 28 53.3	14.8	N	Z55
C/2017 K2	2021 08 17.92973	17 00 37.02	+35 28 52.8	14.8	N	Z55
C/2017 K2	2021 08 17.93021	17 00 37.06	+35 28 52.3	14.8	N	Z55
C/2017 K2	2021 08 17.93069	17 00 36.99	+35 28 52.4	14.8	N	Z55
C/2017 K2	2021 08 17.93117	17 00 36.95	+35 28 51.6	14.8	N	Z55
C/2017 K2	2021 08 18.53926	17 00 24.48	+35 21 41.5	12.5	T	349
C/2017 K2	2021 08 18.54558	17 00 24.36	+35 21 36.9			349
C/2017 K2	2021 08 18.83394	17 00 18.60	+35 18 12.8	14.8	T	L27
C/2017 K2	2021 08 18.84432	17 00 18.39	+35 18 05.4	14.8	T	L27
C/2017 K2	2021 08 18.84469	17 00 18.53	+35 18 04.7	12.7	T	K L27
C/2017 K2	2021 08 18.85543	17 00 18.17	+35 17 57.5	14.8	T	L27
C/2017 K2	2021 08 18.879525	17 00 17.68	+35 17 38.8	13.8	T	G23
C/2017 K2	2021 08 18.88711	17 00 17.50	+35 17 35.6	14.7	N	J01
C/2017 K2	2021 08 18.899387	17 00 17.26	+35 17 24.7	13.8	T	G23
C/2017 K2	2021 08 18.90543	17 00 17.14	+35 17 21.5	14.7	N	J01
C/2017 K2	2021 08 18.920671	17 00 16.88	+35 17 09.1	13.6	T	G23
C/2017 K2	2021 08 18.92375	17 00 16.78	+35 17 08.4	14.7	N	J01
C/2017 K2	2021 08 19.84263	16 59 58.92	+35 06 15.0	14.9	N	Z55
C/2017 K2	2021 08 19.84342	16 59 58.91	+35 06 14.3	14.8	N	Z55
C/2017 K2	2021 08 19.84404	16 59 58.87	+35 06 14.1	14.8	N	Z55
C/2017 K2	2021 08 19.84466	16 59 58.87	+35 06 13.5	14.8	N	Z55
C/2017 K2	2021 08 19.84529	16 59 58.85	+35 06 13.1	14.8	N	Z55

C/2017 K2	2021 08 19.85036	16 59 58.73	+35 06 09.7	14.8	N	J36
C/2017 K2	2021 08 19.85349	16 59 58.70	+35 06 07.4	14.7	N	J36
C/2017 K2	2021 08 19.85505	16 59 58.65	+35 06 06.3	14.8	N	J36
C/2017 K2	2021 08 20.293355	16 59 50.39	+35 00 53.2	14.33o		T08
C/2017 K2	2021 08 20.297056	16 59 50.31	+35 00 50.6	14.32o		T08
C/2017 K2	2021 08 20.302176	16 59 50.22	+35 00 46.9	14.37o		T08
C/2017 K2	2021 08 20.315566	16 59 49.95	+35 00 37.2	14.22o		T08
C/2017 K2	2021 08 20.379516	16 59 48.729	+34 59 52.13	16.42i		F51
C/2017 K2	2021 08 20.386021	16 59 48.605	+34 59 47.32	16.51i		F51
C/2017 K2	2021 08 20.392553	16 59 48.474	+34 59 42.81	16.26i		F51
C/2017 K2	2021 08 20.399052	16 59 48.355	+34 59 37.90	16.39i		F51
C/2017 K2	2021 08 20.86909	16 59 39.84	+34 54 01.3	14.8	N	445
C/2017 K2	2021 08 20.87236	16 59 39.77	+34 53 58.8	14.8	N	445
C/2017 K2	2021 08 20.87742	16 59 39.66	+34 53 54.6	15.0	T	A77
C/2017 K2	2021 08 20.88158	16 59 39.56	+34 53 51.7	15.0	T	A77
C/2017 K2	2021 08 20.88654	16 59 39.41	+34 53 48.1	15.2	T	A77
C/2017 K2	2021 08 20.89131	16 59 39.42	+34 53 45.3	14.8	N	445
C/2017 K2	2021 08 20.89978	16 59 39.27	+34 53 39.2	14.7	N	445
C/2017 K2	2021 08 21.03170	16 59 36.83	+34 52 03.3	14.9	N	J38
C/2017 K2	2021 08 21.03449	16 59 36.79	+34 52 01.6	14.9	N	J38
C/2017 K2	2021 08 21.03729	16 59 36.73	+34 51 59.0	14.9	N	J38
C/2017 K2	2021 08 21.309648	16 59 31.91	+34 48 44.5	14.51o		T05
C/2017 K2	2021 08 21.312850	16 59 31.85	+34 48 42.2	14.39o		T05
C/2017 K2	2021 08 21.319349	16 59 31.73	+34 48 37.5	14.44o		T05
C/2017 K2	2021 08 21.322097	16 59 31.68	+34 48 35.7	15.36o		T05
C/2017 K2	2021 08 21.325301	16 59 31.63	+34 48 32.8	14.00o		T05
C/2017 K2	2021 08 21.329921	16 59 31.53	+34 48 29.9	14.46o		T05
C/2017 K2	2021 08 21.335584	16 59 31.44	+34 48 25.4	14.09o		T05
C/2017 K2	2021 08 21.341099	16 59 31.34	+34 48 21.5	14.08o		T05
C/2017 K2	2021 08 21.344823	16 59 31.271	+34 48 19.76	16.74z		F51
C/2017 K2	2021 08 21.357024	16 59 31.045	+34 48 11.08	16.68z		F51
C/2017 K2	2021 08 21.369192	16 59 30.824	+34 48 02.26	16.64z		F51
C/2017 K2	2021 08 23.81854	16 58 50.50	+34 18 31.0	16.0	T	A77
C/2017 K2	2021 08 23.82422	16 58 50.39	+34 18 26.4	16.0	T	A77
C/2017 K2	2021 08 23.82989	16 58 50.31	+34 18 22.6	13.0	T	A77
C/2017 K2	2021 08 23.88999	16 58 49.32	+34 17 38.2	15.6	T	C23
C/2017 K2	2021 08 23.89432	16 58 49.29	+34 17 35.0	15.3	T	C23
C/2017 K2	2021 08 23.89865	16 58 49.22	+34 17 31.8	15.3	T	C23
C/2017 K2	2021 08 23.90528	16 58 49.13	+34 17 27.2	14.8	T	G06
C/2017 K2	2021 08 23.91185	16 58 49.05	+34 17 22.5	14.8	T	G06
C/2017 K2	2021 08 23.91258	16 58 49.02	+34 17 21.9	14.7	T	K 970
C/2017 K2	2021 08 23.91671	16 58 48.96	+34 17 18.9	14.7	T	K 970
C/2017 K2	2021 08 23.92719	16 58 48.83	+34 17 11.0	14.8	T	G06
C/2017 K2	2021 08 23.97828	16 58 48.02	+34 16 33.8	15.1	T	K I81
C/2017 K2	2021 08 23.98017	16 58 47.99	+34 16 32.2	15.1	T	K I81
C/2017 K2	2021 08 23.98207	16 58 47.96	+34 16 30.6	15.0	T	K I81
C/2017 K2	2021 08 23.98397	16 58 47.93	+34 16 29.2	15.0	T	K I81
C/2017 K2	2021 08 24.181979	16 58 44.99	+34 14 06.0			01 658
C/2017 K2	2021 08 24.186447	16 58 44.92	+34 14 02.7			01 658
C/2017 K2	2021 08 24.190903	16 58 44.85	+34 13 59.5			01 658
C/2017 K2	2021 08 24.195370	16 58 44.78	+34 13 56.3			01 658
C/2017 K2	2021 08 24.200949	16 58 44.70	+34 13 52.2			01 658
C/2017 K2	2021 08 24.55490	16 58 39.55	+34 09 34.5	13.8	T	G26
C/2017 K2	2021 08 24.62176	16 58 38.42	+34 08 47.3	13.6	T	G26
C/2017 K2	2021 08 24.82860	16 58 35.45	+34 06 14.9			K85
C/2017 K2	2021 08 24.83902	16 58 35.29	+34 06 07.3			K85
C/2017 K2	2021 08 24.990852	16 58 33.06	+34 04 15.1	14.5	T	K Z80
C/2017 K2	2021 08 24.992126	16 58 33.09	+34 04 14.4	14.6	T	K Z80
C/2017 K2	2021 08 24.993831	16 58 33.05	+34 04 13.5	14.8	T	K Z80
C/2017 K2	2021 08 25.182002	16 58 30.42	+34 01 56.7			01 658
C/2017 K2	2021 08 25.186470	16 58 30.36	+34 01 53.5			01 658
C/2017 K2	2021 08 25.190926	16 58 30.29	+34 01 50.1			01 658
C/2017 K2	2021 08 25.199861	16 58 30.17	+34 01 43.5			01 658
C/2017 K2	2021 08 25.333797	16 58 28.24	+34 00 05.3	14.02o		T05
C/2017 K2	2021 08 25.338412	16 58 28.17	+34 00 02.2	14.05o		T05
C/2017 K2	2021 08 25.348521	16 58 28.02	+33 59 54.6	14.05o		T05
C/2017 K2	2021 08 25.355903	16 58 27.92	+33 59 49.2	13.99o		T05
C/2017 K2	2021 08 25.84178	16 58 21.30	+33 53 54.7	15.0	T	K G18
C/2017 K2	2021 08 25.85722	16 58 21.08	+33 53 42.6	15.1	T	K G18
C/2017 K2	2021 08 25.86054	16 58 21.05	+33 53 40.4	15.7	T	K 160
C/2017 K2	2021 08 25.86596	16 58 20.98	+33 53 36.4	15.7	T	K 160
C/2017 K2	2021 08 25.87138	16 58 20.88	+33 53 32.6	15.5	T	K 160
C/2017 K2	2021 08 25.87266	16 58 20.84	+33 53 31.0	15.2	T	K G18
C/2017 K2	2021 08 25.92544	16 58 20.15	+33 52 52.5	14.6	T	C10
C/2017 K2	2021 08 25.93754	16 58 19.98	+33 52 43.5	14.6	T	C10
C/2017 K2	2021 08 25.95073	16 58 19.81	+33 52 34.0	14.5	T	C10
C/2017 K2	2021 08 26.233559	16 58 16.09	+33 49 05.1	13.72G		703
C/2017 K2	2021 08 26.238893	16 58 16.03	+33 49 01.1	13.71G		703
C/2017 K2	2021 08 26.244224	16 58 15.96	+33 48 57.2	13.69G		703
C/2017 K2	2021 08 26.249558	16 58 15.87	+33 48 53.3	13.75G		703
C/2017 K2	2021 08 26.59453	16 58 11.08	+33 44 41.8	13.9	T	G26
C/2017 K2	2021 08 26.62380	16 58 11.08	+33 44 19.7	14.2	T	G26
C/2017 K2	2021 08 26.68022	16 58 10.32	+33 43 38.7			190
C/2017 K2	2021 08 26.68104	16 58 10.30	+33 43 38.4			190
C/2017 K2	2021 08 26.68131	16 58 10.29	+33 43 38.0			190
C/2017 K2	2021 08 26.68172	16 58 10.25	+33 43 38.3			190
C/2017 K2	2021 08 26.68254	16 58 10.25	+33 43 37.1			190
C/2017 K2	2021 08 26.68281	16 58 10.27	+33 43 37.0			190
C/2017 K2	2021 08 26.68315	16 58 10.25	+33 43 36.8			190
C/2017 K2	2021 08 26.68396	16 58 10.23	+33 43 36.3			190
C/2017 K2	2021 08 26.68474	16 58 10.14	+33 43 34.6			190
C/2017 K2	2021 08 26.68590	16 58 10.12	+33 43 34.0			190
C/2017 K2	2021 08 26.68680	16 58 10.22	+33 43 34.0			190
C/2017 K2	2021 08 26.68797	16 58 10.18	+33 43 33.4			190
C/2017 K2	2021 08 26.68836	16 58 10.18	+33 43 33.1			190
C/2017 K2	2021 08 26.68884	16 58 10.19	+33 43 32.5			190
C/2017 K2	2021 08 26.69002	16 58 10.16	+33 43 31.7			190
C/2017 K2	2021 08 26.69042	16 58 10.14	+33 43 31.2			190
C/2017 K2	2021 08 26.92925	16 58 08.23	+33 41 36.9	14.5	N	445
C/2017 K2	2021 08 26.93412	16 58 08.17	+33 41 33.5	14.6	N	445
C/2017 K2	2021 08 26.93551	16 58 07.06	+33 40 30.9	14.7	N	J36
C/2017 K2	2021 08 26.93638	16 58 07.09	+33 40 30.4	14.7	N	I88
C/2017 K2	2021 08 26.94234	16 58 06.98	+33 40 26.1	14.7	N	J36
C/2017 K2	2021 08 26.94494	16 58 08.01	+33 41 26.4	14.6	N	445
C/2017 K2	2021 08 26.94819	16 58 06.89	+33 40 21.5	14.7	N	I88
C/2017 K2	2021 08 26.94917	16 58 06.87	+33 40 20.9	14.8	N	J36

C/2017 K2	2021 08 26.95705	16 58 06.76	+33 40 14.4	14.7 N	I88
C/2017 K2	2021 08 27.208504	16 58 03.76	+33 37 08.5	13.59G	703
C/2017 K2	2021 08 27.213851	16 58 03.69	+33 37 04.5	13.56G	703
C/2017 K2	2021 08 27.219198	16 58 03.62	+33 37 00.8	13.65G	703
C/2017 K2	2021 08 27.224550	16 58 03.54	+33 36 56.9	13.79G	703
C/2017 K2	2021 08 27.73179	16 57 57.39	+33 30 44.8	15.5 N	190
C/2017 K2	2021 08 27.73201	16 57 57.41	+33 30 44.5	15.8 N	190
C/2017 K2	2021 08 27.73222	16 57 57.38	+33 30 43.8	15.4 N	190
C/2017 K2	2021 08 27.73243	16 57 57.42	+33 30 44.3	15.4 N	190
C/2017 K2	2021 08 27.73264	16 57 57.41	+33 30 44.2	15.2 N	190
C/2017 K2	2021 08 27.73492	16 57 57.26	+33 30 41.4		190
C/2017 K2	2021 08 27.73519	16 57 57.36	+33 30 41.5		190
C/2017 K2	2021 08 27.73564	16 57 57.33	+33 30 40.3		190
C/2017 K2	2021 08 27.73592	16 57 57.37	+33 30 39.9		190
C/2017 K2	2021 08 27.73866	16 57 57.33	+33 30 39.7	15.1 N	190
C/2017 K2	2021 08 27.73893	16 57 57.34	+33 30 39.3	15.4 N	190
C/2017 K2	2021 08 27.73974	16 57 57.30	+33 30 38.2	15.3 N	190
C/2017 K2	2021 08 27.74029	16 57 57.22	+33 30 38.5		190
C/2017 K2	2021 08 27.74366	16 57 57.25	+33 30 36.1	15.4 N	190
C/2017 K2	2021 08 27.74404	16 57 57.25	+33 30 35.8	16.5 N	190
C/2017 K2	2021 08 27.74455	16 57 57.24	+33 30 35.2	15.1 N	190
C/2017 K2	2021 08 27.74493	16 57 57.24	+33 30 34.2	15.1 N	190
C/2017 K2	2021 08 27.74532	16 57 57.22	+33 30 34.5	15.0 N	190
C/2017 K2	2021 08 27.74570	16 57 57.24	+33 30 34.3	15.2 N	190
C/2017 K2	2021 08 27.75126	16 57 57.13	+33 30 29.1		190
C/2017 K2	2021 08 27.75200	16 57 57.13	+33 30 29.7	15.8 N	190
C/2017 K2	2021 08 27.75451	16 57 57.13	+33 30 27.8	16.3 N	190
C/2017 K2	2021 08 27.75524	16 57 57.17	+33 30 27.1	16.5 N	190
C/2017 K2	2021 08 27.75598	16 57 57.11	+33 30 26.6		190
C/2017 K2	2021 08 27.76134	16 57 57.06	+33 30 22.5	15.1 N	190
C/2017 K2	2021 08 27.87940	16 57 55.74	+33 28 55.5	14.6 T	I81
C/2017 K2	2021 08 27.88155	16 57 55.71	+33 28 53.9	14.6 T	I81
C/2017 K2	2021 08 27.88299	16 57 55.69	+33 28 52.9	14.6 T	I81
C/2017 K2	2021 08 27.88443	16 57 55.68	+33 28 51.8	14.6 T	I81
C/2017 K2	2021 08 27.88587	16 57 55.66	+33 28 50.7	14.6 T	I81
C/2017 K2	2021 08 27.89308	16 57 55.59	+33 28 46.0	15.3 T	Z10
C/2017 K2	2021 08 27.89764	16 57 55.51	+33 28 42.4	15.3 T	Z10
C/2017 K2	2021 08 27.90376	16 57 55.48	+33 28 37.9	15.2 T	Z10
C/2017 K2	2021 08 27.96206	16 57 54.73	+33 27 53.9	15.1 T	C23
C/2017 K2	2021 08 27.96639	16 57 54.67	+33 27 51.0	15.2 T	C23
C/2017 K2	2021 08 27.97216	16 57 54.62	+33 27 46.7	15.3 T	C23
C/2017 K2	2021 08 27.98264	16 57 55.46	+33 28 41.6	14.6 N	445
C/2017 K2	2021 08 27.98807	16 57 55.38	+33 28 37.5	14.7 N	445
C/2017 K2	2021 08 27.99892	16 57 55.31	+33 28 29.5	14.6 N	445
C/2017 K2	2021 08 28.274725	16 57 51.20	+33 24 04.2	14.23o	T08
C/2017 K2	2021 08 28.277959	16 57 51.17	+33 24 01.7	14.28o	T08
C/2017 K2	2021 08 28.283978	16 57 51.09	+33 23 57.3	14.34o	T08
C/2017 K2	2021 08 28.297868	16 57 50.93	+33 23 46.9	14.19o	T08
C/2017 K2	2021 08 28.67946	16 57 46.72	+33 19 04.5		190
C/2017 K2	2021 08 28.67961	16 57 46.67	+33 19 03.6		190
C/2017 K2	2021 08 28.67976	16 57 46.57	+33 19 03.8		190
C/2017 K2	2021 08 28.67998	16 57 46.73	+33 19 03.9		190
C/2017 K2	2021 08 28.68013	16 57 46.63	+33 19 04.0	15.9 N	190
C/2017 K2	2021 08 28.68029	16 57 46.66	+33 19 02.8		190
C/2017 K2	2021 08 28.68059	16 57 46.61	+33 19 02.9		190
C/2017 K2	2021 08 28.68080	16 57 46.67	+33 19 03.9	16.6 N	190
C/2017 K2	2021 08 28.68111	16 57 46.65	+33 19 02.8		190
C/2017 K2	2021 08 28.68142	16 57 46.68	+33 19 03.2		190
C/2017 K2	2021 08 28.68380	16 57 46.53	+33 19 00.8	16.8 N	190
C/2017 K2	2021 08 28.68434	16 57 46.65	+33 19 00.7	15.7 N	190
C/2017 K2	2021 08 28.68475	16 57 46.65	+33 19 00.4	15.0 N	190
C/2017 K2	2021 08 28.68583	16 57 46.60	+33 19 00.1	15.4 N	190
C/2017 K2	2021 08 28.68648	16 57 46.61	+33 19 00.3	15.0 N	190
C/2017 K2	2021 08 28.68927	16 57 46.52	+33 18 58.5		190
C/2017 K2	2021 08 28.69121	16 57 46.57	+33 18 56.0	16.2 N	190
C/2017 K2	2021 08 28.69342	16 57 46.53	+33 18 54.5	15.7 N	190
C/2017 K2	2021 08 28.69467	16 57 46.52	+33 18 53.4	15.0 N	190
C/2017 K2	2021 08 28.69666	16 57 46.46	+33 18 51.5		190
C/2017 K2	2021 08 28.87061	16 57 44.65	+33 16 42.7		204
C/2017 K2	2021 08 28.88527	16 57 44.50	+33 16 32.6	14.6 T	204
C/2017 K2	2021 08 29.281366	16 57 40.32	+33 11 39.2	14.53c	T05
C/2017 K2	2021 08 29.281823	16 57 40.34	+33 11 38.5	14.06c	T05
C/2017 K2	2021 08 29.285026	16 57 40.28	+33 11 36.6	14.58c	T05
C/2017 K2	2021 08 29.285483	16 57 40.30	+33 11 35.6	14.21c	T05
C/2017 K2	2021 08 29.291981	16 57 40.23	+33 11 31.1	14.20c	T05
C/2017 K2	2021 08 29.308010	16 57 40.04	+33 11 19.5	14.66c	T05
C/2017 K2	2021 08 29.308926	16 57 40.04	+33 11 18.5	14.23c	T05
C/2017 K2	2021 08 29.317060	16 57 39.93	+33 11 12.8	14.62c	T05
C/2017 K2	2021 08 29.51777	16 57 37.90	+33 08 43.7		K 367
C/2017 K2	2021 08 29.51939	16 57 37.89	+33 08 42.4		K 367
C/2017 K2	2021 08 29.52060	16 57 37.87	+33 08 41.6	12.5 T	K 367
C/2017 K2	2021 08 29.54069	16 57 37.65	+33 08 26.8	12.2 T	Q11
C/2017 K2	2021 08 29.54919	16 57 37.56	+33 08 20.5		Q11
C/2017 K2	2021 08 29.55699	16 57 37.47	+33 08 14.7		Q11
C/2017 K2	2021 08 29.70643	16 57 35.98	+33 06 24.2	16.0 N	190
C/2017 K2	2021 08 29.70697	16 57 35.97	+33 06 24.2	15.8 N	190
C/2017 K2	2021 08 29.70724	16 57 35.97	+33 06 23.7	15.4 N	190
C/2017 K2	2021 08 29.70751	16 57 36.00	+33 06 23.4	15.4 N	190
C/2017 K2	2021 08 29.70784	16 57 35.97	+33 06 23.2	14.9 N	190
C/2017 K2	2021 08 29.70811	16 57 35.97	+33 06 23.2	15.1 N	190
C/2017 K2	2021 08 29.70865	16 57 35.96	+33 06 22.8	14.7 N	190
C/2017 K2	2021 08 29.70891	16 57 35.97	+33 06 22.9	14.7 N	190
C/2017 K2	2021 08 29.71185	16 57 35.94	+33 06 20.1	16.8 N	190
C/2017 K2	2021 08 29.71223	16 57 35.93	+33 06 20.3	15.6 N	190
C/2017 K2	2021 08 29.71262	16 57 35.96	+33 06 19.9	15.8 N	190
C/2017 K2	2021 08 29.71465	16 57 35.91	+33 06 18.5	15.4 N	190
C/2017 K2	2021 08 29.71503	16 57 35.89	+33 06 17.4	15.1 N	190
C/2017 K2	2021 08 29.71541	16 57 35.92	+33 06 18.0	15.4 N	190
C/2017 K2	2021 08 29.71587	16 57 35.89	+33 06 17.3	14.6 N	190
C/2017 K2	2021 08 29.71626	16 57 35.86	+33 06 16.5	14.8 N	190
C/2017 K2	2021 08 29.71664	16 57 35.90	+33 06 16.4	14.5 N	190
C/2017 K2	2021 08 29.71703	16 57 35.89	+33 06 16.3	14.6 N	190
C/2017 K2	2021 08 29.72188	16 57 35.82	+33 06 12.8	15.9 N	190
C/2017 K2	2021 08 29.72335	16 57 35.84	+33 06 11.6	15.8 N	190
C/2017 K2	2021 08 29.72408	16 57 35.81	+33 06 11.4	15.8 N	190
C/2017 K2	2021 08 29.72569	16 57 35.79	+33 06 10.0	14.9 N	190

C/2017 K2	2021 08 29.73019	16 57 35.75	+33 06 06.6	14.5	N		190
C/2017 K2	2021 08 29.73092	16 57 35.75	+33 06 05.9	14.6	N		190
C/2017 K2	2021 08 29.73166	16 57 35.75	+33 06 05.4	14.5	N		190
C/2017 K2	2021 08 29.73239	16 57 35.73	+33 06 05.0	14.6	N		190
C/2017 K2	2021 08 29.79660	16 57 35.17	+33 05 16.3	15.9	T	K	L47
C/2017 K2	2021 08 29.81394	16 57 35.09	+33 05 03.5	15.9	T	K	L47
C/2017 K2	2021 08 29.86689	16 57 34.43	+33 04 24.5	14.3	T		L63
C/2017 K2	2021 08 29.87644	16 57 34.34	+33 04 17.6	14.3	T		L63
C/2017 K2	2021 08 29.88601	16 57 34.25	+33 04 10.4	14.2	T		L63
C/2017 K2	2021 08 30.67037	16 57 26.84	+32 54 28.2				190
C/2017 K2	2021 08 30.67053	16 57 26.88	+32 54 28.1				190
C/2017 K2	2021 08 30.67083	16 57 26.83	+32 54 29.1	16.4	N		190
C/2017 K2	2021 08 30.67116	16 57 26.84	+32 54 28.5	16.5	N		190
C/2017 K2	2021 08 30.67162	16 57 26.82	+32 54 27.9	15.8	N		190
C/2017 K2	2021 08 30.67178	16 57 26.80	+32 54 28.3	15.8	N		190
C/2017 K2	2021 08 30.67234	16 57 26.82	+32 54 27.6	14.4	N		190
C/2017 K2	2021 08 30.67250	16 57 26.84	+32 54 27.4	15.5	N		190
C/2017 K2	2021 08 30.67334	16 57 26.79	+32 54 26.3				190
C/2017 K2	2021 08 30.67459	16 57 26.79	+32 54 25.5				190
C/2017 K2	2021 08 30.68140	16 57 26.74	+32 54 20.6	15.8	N		190
C/2017 K2	2021 08 30.68179	16 57 26.72	+32 54 20.3	15.7	N		190
C/2017 K2	2021 08 30.68218	16 57 26.73	+32 54 19.7	15.7	N		190
C/2017 K2	2021 08 30.68257	16 57 26.70	+32 54 19.8	16.1	N		190
C/2017 K2	2021 08 30.68295	16 57 26.71	+32 54 19.7	16.0	N		190
C/2017 K2	2021 08 30.68345	16 57 26.71	+32 54 19.2	15.2	N		190
C/2017 K2	2021 08 30.68384	16 57 26.70	+32 54 18.6	15.3	N		190
C/2017 K2	2021 08 30.68423	16 57 26.70	+32 54 18.2	15.1	N		190
C/2017 K2	2021 08 30.68461	16 57 26.69	+32 54 18.2	15.3	N		190
C/2017 K2	2021 08 30.68499	16 57 26.70	+32 54 17.8	15.2	N		190
C/2017 K2	2021 08 30.68650	16 57 26.68	+32 54 16.8	14.9	N		190
C/2017 K2	2021 08 30.68689	16 57 26.67	+32 54 16.5	14.8	N		190
C/2017 K2	2021 08 30.68727	16 57 26.68	+32 54 16.0	14.5	N		190
C/2017 K2	2021 08 30.68765	16 57 26.68	+32 54 15.9	14.7	N		190
C/2017 K2	2021 08 30.68804	16 57 26.68	+32 54 15.6	14.7	N		190
C/2017 K2	2021 08 30.69258	16 57 26.62	+32 54 12.2	15.4	N		190
C/2017 K2	2021 08 30.69331	16 57 26.59	+32 54 11.6	15.6	N		190
C/2017 K2	2021 08 30.69404	16 57 26.61	+32 54 11.2	15.8	N		190
C/2017 K2	2021 08 30.69478	16 57 26.61	+32 54 10.7	15.9	N		190
C/2017 K2	2021 08 30.69551	16 57 26.60	+32 54 09.8	15.6	N		190
C/2017 K2	2021 08 30.69651	16 57 26.60	+32 54 09.1	14.9	N		190
C/2017 K2	2021 08 30.69725	16 57 26.58	+32 54 08.6	15.0	N		190
C/2017 K2	2021 08 30.69798	16 57 26.57	+32 54 08.2	14.9	N		190
C/2017 K2	2021 08 30.69871	16 57 26.58	+32 54 07.7	15.1	N		190
C/2017 K2	2021 08 30.70107	16 57 26.56	+32 54 05.8	14.5	N		190
C/2017 K2	2021 08 30.80953	16 57 25.76	+32 52 45.3	17.4	T	K	L47
C/2017 K2	2021 08 30.82596	16 57 25.50	+32 52 33.3	14.8	N		Z55
C/2017 K2	2021 08 30.82668	16 57 25.51	+32 52 32.2	14.8	N		Z55
C/2017 K2	2021 08 30.82740	16 57 25.46	+32 52 32.1	14.8	N		Z55
C/2017 K2	2021 08 30.82812	16 57 25.48	+32 52 31.8	14.8	N		Z55
C/2017 K2	2021 08 30.83028	16 57 25.45	+32 52 29.9	14.8	N		Z55
C/2017 K2	2021 08 30.83100	16 57 25.47	+32 52 29.1	14.8	N		Z55
C/2017 K2	2021 08 30.83241	16 57 25.54	+32 52 28.1	17.1	T	K	L47
C/2017 K2	2021 08 30.89196	16 57 24.92	+32 51 42.9	15.2	T		Z10
C/2017 K2	2021 08 30.89653	16 57 24.84	+32 51 40.1	15.2	T		Z10
C/2017 K2	2021 08 30.90263	16 57 24.80	+32 51 35.8	15.2	T		Z10
C/2017 K2	2021 08 31.328298	16 57 21.05	+32 46 19.0	14.32o			T08
C/2017 K2	2021 08 31.333367	16 57 21.00	+32 46 15.1	14.23o			T08
C/2017 K2	2021 08 31.341698	16 57 20.94	+32 46 09.0	14.26o			T08
C/2017 K2	2021 08 31.346770	16 57 20.89	+32 46 05.1	14.22o			T08
C/2017 K2	2021 08 31.787803	16 57 17.33	+32 40 37.3			K	L74
C/2017 K2	2021 08 31.794532	16 57 17.26	+32 40 32.0			K	L74
C/2017 K2	2021 08 31.802103	16 57 17.20	+32 40 26.1			K	L74
C/2017 K2	2021 08 31.85304	16 57 16.78	+32 39 47.7	12.9	N		L06
C/2017 K2	2021 08 31.85410	16 57 16.77	+32 39 47.2	13.1	N		L06
C/2017 K2	2021 08 31.85518	16 57 16.74	+32 39 46.6	12.9	N		L06
C/2017 K2	2021 08 31.86775	16 57 16.68	+32 39 36.8	14.5	T	K	I81
C/2017 K2	2021 08 31.86956	16 57 16.67	+32 39 35.4	14.5	T	K	I81
C/2017 K2	2021 08 31.87137	16 57 16.65	+32 39 34.1	14.5	T	K	I81
C/2017 K2	2021 09 01.67146	16 57 10.51	+32 29 38.3	16.2	N		190
C/2017 K2	2021 09 01.67161	16 57 10.50	+32 29 37.3	15.9	N		190
C/2017 K2	2021 09 01.67207	16 57 10.54	+32 29 37.7	15.7	N		190
C/2017 K2	2021 09 01.67222	16 57 10.50	+32 29 37.1	15.0	N		190
C/2017 K2	2021 09 01.67237	16 57 10.52	+32 29 37.4	15.3	N		190
C/2017 K2	2021 09 01.67253	16 57 10.52	+32 29 36.9	15.0	N		190
C/2017 K2	2021 09 01.67458	16 57 10.49	+32 29 35.1	15.6	N		190
C/2017 K2	2021 09 01.67485	16 57 10.52	+32 29 34.8	15.6	N		190
C/2017 K2	2021 09 01.67512	16 57 10.51	+32 29 34.7	15.5	N		190
C/2017 K2	2021 09 01.67539	16 57 10.48	+32 29 34.9	16.4	N		190
C/2017 K2	2021 09 01.67575	16 57 10.46	+32 29 34.4	15.4	N		190
C/2017 K2	2021 09 01.67602	16 57 10.48	+32 29 34.5	15.6	N		190
C/2017 K2	2021 09 01.67629	16 57 10.47	+32 29 34.1	15.3	N		190
C/2017 K2	2021 09 01.67776	16 57 10.46	+32 29 33.0	14.9	N		190
C/2017 K2	2021 09 01.67803	16 57 10.48	+32 29 32.9	14.9	N		190
C/2017 K2	2021 09 01.67830	16 57 10.47	+32 29 32.8	15.1	N		190
C/2017 K2	2021 09 01.68006	16 57 10.47	+32 29 30.8				190
C/2017 K2	2021 09 01.68093	16 57 10.45	+32 29 30.5	15.9	N		190
C/2017 K2	2021 09 01.68132	16 57 10.44	+32 29 30.0	15.6	N		190
C/2017 K2	2021 09 01.68170	16 57 10.42	+32 29 30.1	16.4	N		190
C/2017 K2	2021 09 01.68209	16 57 10.47	+32 29 30.0	16.1	N		190
C/2017 K2	2021 09 01.68247	16 57 10.44	+32 29 29.5	15.9	N		190
C/2017 K2	2021 09 01.68315	16 57 10.42	+32 29 29.0	15.4	N		190
C/2017 K2	2021 09 01.68353	16 57 10.43	+32 29 28.6				190
C/2017 K2	2021 09 01.68392	16 57 10.41	+32 29 28.5	15.3	N		190
C/2017 K2	2021 09 01.68430	16 57 10.42	+32 29 28.1				190
C/2017 K2	2021 09 01.68469	16 57 10.41	+32 29 27.7	15.3	N		190
C/2017 K2	2021 09 01.68517	16 57 10.41	+32 29 27.1	14.6	N		190
C/2017 K2	2021 09 01.68555	16 57 10.41	+32 29 27.1	14.7	N		190
C/2017 K2	2021 09 01.68594	16 57 10.45	+32 29 27.0	14.7	N		190
C/2017 K2	2021 09 01.68632	16 57 10.41	+32 29 26.4	14.9	N		190
C/2017 K2	2021 09 01.68671	16 57 10.39	+32 29 26.1	14.8	N		190
C/2017 K2	2021 09 01.69423	16 57 10.34	+32 29 20.8	15.8	N		190
C/2017 K2	2021 09 01.69510	16 57 10.34	+32 29 20.0	15.1	N		190
C/2017 K2	2021 09 01.69584	16 57 10.34	+32 29 19.4	15.0	N		190
C/2017 K2	2021 09 01.69731	16 57 10.32	+32 29 18.2	14.9	N		190
C/2017 K2	2021 09 01.69804	16 57 10.31	+32 29 17.7	15.0	N		190
C/2017 K2	2021 09 01.69997	16 57 10.30	+32 29 16.3				190

C/2017 K2	2021 09 01.70070	16 57 10.30	+32 29 15.8	14.5	N		190
C/2017 K2	2021 09 01.70144	16 57 10.30	+32 29 15.3				190
C/2017 K2	2021 09 01.70291	16 57 10.29	+32 29 14.2	14.6	N		190
C/2017 K2	2021 09 01.84009	16 57 09.31	+32 27 30.9	14.8	T		104
C/2017 K2	2021 09 01.84722	16 57 09.25	+32 27 25.6	14.8	T		104
C/2017 K2	2021 09 01.85127	16 57 09.23	+32 27 22.5	14.8	T		104
C/2017 K2	2021 09 01.89434	16 57 08.98	+32 26 49.1	13.6	T	K	C43
C/2017 K2	2021 09 01.90519	16 57 08.86	+32 26 40.1	13.6	T	K	C43
C/2017 K2	2021 09 02.66379	16 57 03.89	+32 17 15.8				190
C/2017 K2	2021 09 02.66525	16 57 03.74	+32 17 15.4	15.0	N		190
C/2017 K2	2021 09 02.66541	16 57 03.73	+32 17 14.5	15.0	N		190
C/2017 K2	2021 09 02.66590	16 57 03.76	+32 17 14.8	15.5	N		190
C/2017 K2	2021 09 02.66812	16 57 03.70	+32 17 12.8	15.3	N		190
C/2017 K2	2021 09 02.67563	16 57 03.67	+32 17 07.3	15.7	N		190
C/2017 K2	2021 09 02.67602	16 57 03.68	+32 17 06.9				190
C/2017 K2	2021 09 02.67640	16 57 03.70	+32 17 06.7	16.2	N		190
C/2017 K2	2021 09 02.67679	16 57 03.68	+32 17 06.4	15.7	N		190
C/2017 K2	2021 09 02.67717	16 57 03.65	+32 17 06.2	15.6	N		190
C/2017 K2	2021 09 02.67814	16 57 03.67	+32 17 05.3	15.0	N		190
C/2017 K2	2021 09 02.67853	16 57 03.66	+32 17 05.2	15.3	N		190
C/2017 K2	2021 09 02.67892	16 57 03.64	+32 17 04.9	15.2	N		190
C/2017 K2	2021 09 02.67930	16 57 03.65	+32 17 04.6	15.0	N		190
C/2017 K2	2021 09 02.68024	16 57 03.64	+32 17 03.8	14.7	N		190
C/2017 K2	2021 09 02.68063	16 57 03.63	+32 17 03.5	14.7	N		190
C/2017 K2	2021 09 02.68102	16 57 03.64	+32 17 03.4	14.5	N		190
C/2017 K2	2021 09 02.68140	16 57 03.63	+32 17 03.0	14.7	N		190
C/2017 K2	2021 09 02.68179	16 57 03.62	+32 17 02.8	14.6	N		190
C/2017 K2	2021 09 02.68316	16 57 03.61	+32 17 02.3	16.5	N		190
C/2017 K2	2021 09 02.68389	16 57 03.66	+32 17 00.6	16.4	N		190
C/2017 K2	2021 09 02.68536	16 57 03.61	+32 17 00.2	16.9	N		190
C/2017 K2	2021 09 02.68609	16 57 03.61	+32 16 59.4	16.4	N		190
C/2017 K2	2021 09 02.68705	16 57 03.58	+32 16 58.6	15.8	N		190
C/2017 K2	2021 09 02.68778	16 57 03.58	+32 16 58.1	15.6	N		190
C/2017 K2	2021 09 02.68852	16 57 03.58	+32 16 57.6	16.0	N		190
C/2017 K2	2021 09 02.68925	16 57 03.59	+32 16 57.1	15.4	N		190
C/2017 K2	2021 09 02.68998	16 57 03.58	+32 16 56.6	15.6	N		190
C/2017 K2	2021 09 02.84050	16 57 02.68	+32 15 03.7				K85
C/2017 K2	2021 09 02.85162	16 57 02.60	+32 14 55.3				K85
C/2017 K2	2021 09 03.162192	16 57 00.74	+32 11 01.7	13.45	G		G96
C/2017 K2	2021 09 03.167862	16 57 00.70	+32 10 57.5	13.44	G		G96
C/2017 K2	2021 09 03.173530	16 57 00.66	+32 10 53.3	13.54	G		G96
C/2017 K2	2021 09 03.179192	16 57 00.63	+32 10 48.8	13.43	G		G96
C/2017 K2	2021 09 03.81313	16 56 57.07	+32 02 54.8	16.3	T	K	L47
C/2017 K2	2021 09 03.82040	16 56 57.07	+32 02 49.4				Z55
C/2017 K2	2021 09 03.82089	16 56 57.08	+32 02 49.2				Z55
C/2017 K2	2021 09 03.82138	16 56 57.08	+32 02 48.8				Z55
C/2017 K2	2021 09 03.82187	16 56 57.07	+32 02 48.7				Z55
C/2017 K2	2021 09 03.82236	16 56 57.08	+32 02 48.0				Z55
C/2017 K2	2021 09 03.82285	16 56 57.07	+32 02 47.7				Z55
C/2017 K2	2021 09 03.82334	16 56 57.06	+32 02 47.5				Z55
C/2017 K2	2021 09 03.82383	16 56 57.06	+32 02 47.0				Z55
C/2017 K2	2021 09 03.82431	16 56 57.06	+32 02 46.5				Z55
C/2017 K2	2021 09 03.82480	16 56 57.05	+32 02 46.2				Z55
C/2017 K2	2021 09 03.82529	16 56 57.05	+32 02 45.8				Z55
C/2017 K2	2021 09 03.82578	16 56 57.05	+32 02 45.6				Z55
C/2017 K2	2021 09 03.82909	16 56 56.99	+32 02 42.8	16.3	T	K	L47
C/2017 K2	2021 09 03.83328	16 56 57.00	+32 02 40.6	14.1	T		Z40
C/2017 K2	2021 09 03.83334	16 56 56.98	+32 02 40.2				K85
C/2017 K2	2021 09 03.83681	16 56 56.96	+32 02 37.6				K85
C/2017 K2	2021 09 03.84198	16 56 56.93	+32 02 34.0	14.0	T		Z40
C/2017 K2	2021 09 03.85068	16 56 56.90	+32 02 27.4	14.0	T		Z40
C/2017 K2	2021 09 03.85734	16 56 56.81	+32 02 21.0	14.1	T		K40
C/2017 K2	2021 09 03.85939	16 56 56.84	+32 02 21.1	14.0	T		Z40
C/2017 K2	2021 09 03.86593	16 56 56.80	+32 02 16.0	14.0	T		Z40
C/2017 K2	2021 09 03.87747	16 56 56.69	+32 02 04.6	14.7	N		J01
C/2017 K2	2021 09 03.87943	16 56 56.65	+32 02 05.4	16.5	T		K40
C/2017 K2	2021 09 03.89079	16 56 56.64	+32 01 56.2	14.5	N		I88
C/2017 K2	2021 09 03.89508	16 56 56.60	+32 01 53.2	14.5	N		I88
C/2017 K2	2021 09 03.89591	16 56 56.60	+32 01 53.2	14.7	N		J01
C/2017 K2	2021 09 03.90155	16 56 56.57	+32 01 48.0	14.5	N		I88
C/2017 K2	2021 09 03.92531	16 56 56.45	+32 01 31.1	14.6	N		J01
C/2017 K2	2021 09 04.89715	16 56 51.87	+31 49 22.5	15.2	T		Z10
C/2017 K2	2021 09 04.90097	16 56 51.80	+31 49 19.5	15.2	T		Z10
C/2017 K2	2021 09 04.90633	16 56 51.76	+31 49 15.8	15.2	T		Z10
C/2017 K2	2021 09 05.00346	16 56 51.34	+31 48 01.8	14.8	N		J38
C/2017 K2	2021 09 05.00638	16 56 51.28	+31 47 59.7	14.8	N		J38
C/2017 K2	2021 09 05.83644	16 56 48.13	+31 37 36.7	14.7	T		B96
C/2017 K2	2021 09 05.84301	16 56 48.09	+31 37 32.0	14.7	T		B96
C/2017 K2	2021 09 05.84958	16 56 48.04	+31 37 27.1	14.6	T		B96
C/2017 K2	2021 09 05.85797	16 56 48.04	+31 37 20.1	13.9	T		C36
C/2017 K2	2021 09 05.85962	16 56 48.01	+31 37 18.9	13.4	T		C36
C/2017 K2	2021 09 05.86506	16 56 47.95	+31 37 14.7	13.2	T		C36
C/2017 K2	2021 09 05.86671	16 56 47.95	+31 37 13.2	13.2	T		C36
C/2017 K2	2021 09 05.86836	16 56 47.98	+31 37 12.4	13.8	T		C36
C/2017 K2	2021 09 05.87166	16 56 47.97	+31 37 09.6	13.1	T		C36
C/2017 K2	2021 09 05.90426	16 56 47.85	+31 36 45.9	14.7	T		G06
C/2017 K2	2021 09 05.91145	16 56 47.81	+31 36 40.4	14.7	T		G06
C/2017 K2	2021 09 05.92222	16 56 47.81	+31 36 32.2	14.7	T		G06
C/2017 K2	2021 09 05.94019	16 56 47.74	+31 36 19.0	14.7	T		G06
C/2017 K2	2021 09 06.70339	16 56 45.38	+31 26 45.5	14.9	T	01	C40
C/2017 K2	2021 09 06.70551	16 56 45.38	+31 26 43.8	14.9	T	01	C40
C/2017 K2	2021 09 06.70657	16 56 45.37	+31 26 43.1	14.9	T	01	C40
C/2017 K2	2021 09 06.70870	16 56 45.37	+31 26 41.5	14.8	T	01	C40
C/2017 K2	2021 09 06.71083	16 56 45.36	+31 26 39.8	14.9	T	01	C40
C/2017 K2	2021 09 06.71190	16 56 45.36	+31 26 39.1	14.8	T	01	C40
C/2017 K2	2021 09 06.73838	16 56 45.24	+31 26 19.3	14.9	T	01	C40
C/2017 K2	2021 09 06.79038	16 56 45.09	+31 25 40.3	14.8	T	01	C40
C/2017 K2	2021 09 06.81269	16 56 45.04	+31 25 23.3	14.9	T	01	C40
C/2017 K2	2021 09 06.83661	16 56 44.99	+31 25 05.1	14.9	T	01	C40
C/2017 K2	2021 09 06.84425	16 56 44.97	+31 24 59.5	14.9	T	01	C40
C/2017 K2	2021 09 06.84883	16 56 44.94	+31 24 55.8	15.0	T		C23
C/2017 K2	2021 09 06.85604	16 56 44.94	+31 24 50.5	15.1	T		C23
C/2017 K2	2021 09 06.86155	16 56 44.90	+31 24 46.6	15.1	T		K 073
C/2017 K2	2021 09 06.86182	16 56 44.92	+31 24 46.2	15.0	T		C23
C/2017 K2	2021 09 06.86288	16 56 44.89	+31 24 45.6	15.2	T		K 073
C/2017 K2	2021 09 06.86420	16 56 44.88	+31 24 44.7	15.1	T		K 073

C/2017 K2	2021 09 06.90225	16 56 44.80	+31 24 16.1	14.8	N	J38
C/2017 K2	2021 09 06.91063	16 56 44.83	+31 24 09.5	14.8	N	J38
C/2017 K2	2021 09 06.91343	16 56 44.86	+31 24 07.4	14.8	N	J38
C/2017 K2	2021 09 07.56300	16 56 43.54	+31 15 56.3	13.5	T	G26
C/2017 K2	2021 09 07.58380	16 56 43.42	+31 15 41.8	13.9	T	G26
C/2017 K2	2021 09 07.70413	16 56 43.04	+31 14 13.2	14.9	T	01C40
C/2017 K2	2021 09 07.70522	16 56 43.04	+31 14 12.4	14.8	T	01C40
C/2017 K2	2021 09 07.70850	16 56 43.04	+31 14 09.9	14.8	T	01C40
C/2017 K2	2021 09 07.70959	16 56 43.03	+31 14 09.0	14.8	T	01C40
C/2017 K2	2021 09 07.71068	16 56 43.03	+31 14 08.0	14.8	T	01C40
C/2017 K2	2021 09 07.71177	16 56 43.03	+31 14 07.3	14.8	T	01C40
C/2017 K2	2021 09 07.71396	16 56 43.03	+31 14 05.6	14.8	T	01C40
C/2017 K2	2021 09 07.73247	16 56 42.97	+31 13 51.6	14.9	T	01C40
C/2017 K2	2021 09 07.73574	16 56 42.98	+31 13 49.1	14.9	T	01C40
C/2017 K2	2021 09 07.73684	16 56 42.97	+31 13 48.3	14.9	T	01C40
C/2017 K2	2021 09 07.73793	16 56 42.96	+31 13 47.5	14.8	T	01C40
C/2017 K2	2021 09 07.73902	16 56 42.96	+31 13 46.9	14.9	T	01C40
C/2017 K2	2021 09 07.74012	16 56 42.96	+31 13 46.0	14.8	T	01C40
C/2017 K2	2021 09 07.74120	16 56 42.96	+31 13 45.1	14.8	T	01C40
C/2017 K2	2021 09 07.76168	16 56 42.92	+31 13 29.6	14.9	T	01C40
C/2017 K2	2021 09 07.76278	16 56 42.90	+31 13 28.9	14.8	T	01C40
C/2017 K2	2021 09 07.76387	16 56 42.91	+31 13 28.0	14.8	T	01C40
C/2017 K2	2021 09 07.76823	16 56 42.91	+31 13 24.6	14.8	T	01C40
C/2017 K2	2021 09 07.79574	16 56 42.85	+31 13 03.9	14.8	T	01C40
C/2017 K2	2021 09 07.80229	16 56 42.83	+31 12 58.8	14.8	T	01C40
C/2017 K2	2021 09 07.80447	16 56 42.83	+31 12 57.2	14.9	T	01C40
C/2017 K2	2021 09 07.82069	16 56 42.84	+31 12 45.8	14.7	N	Z55
C/2017 K2	2021 09 07.82167	16 56 42.82	+31 12 45.2	14.7	N	Z55
C/2017 K2	2021 09 07.82216	16 56 42.82	+31 12 44.7	14.7	N	Z55
C/2017 K2	2021 09 07.82265	16 56 42.82	+31 12 43.9	14.7	N	Z55
C/2017 K2	2021 09 07.82314	16 56 42.84	+31 12 44.1	14.7	N	Z55
C/2017 K2	2021 09 07.82413	16 56 42.79	+31 12 42.3	14.9	T	01C40
C/2017 K2	2021 09 07.82522	16 56 42.78	+31 12 41.5	14.9	T	01C40
C/2017 K2	2021 09 07.82631	16 56 42.78	+31 12 40.6	14.8	T	01C40
C/2017 K2	2021 09 07.82741	16 56 42.78	+31 12 39.9	14.9	T	01C40
C/2017 K2	2021 09 07.85662	16 56 42.71	+31 12 17.9	14.9	T	01C40
C/2017 K2	2021 09 07.85771	16 56 42.72	+31 12 17.0	14.9	T	01C40
C/2017 K2	2021 09 07.86098	16 56 42.72	+31 12 14.7	14.8	T	01C40
C/2017 K2	2021 09 07.86426	16 56 42.71	+31 12 12.1	14.8	T	01C40
C/2017 K2	2021 09 07.86535	16 56 42.72	+31 12 11.3	15.0	T	01C40
C/2017 K2	2021 09 07.86644	16 56 42.71	+31 12 10.5	14.9	T	01C40
C/2017 K2	2021 09 07.88709	16 56 42.69	+31 11 55.2	14.7	T	970
C/2017 K2	2021 09 07.89294	16 56 42.68	+31 11 50.7	14.7	T	970
C/2017 K2	2021 09 07.91797	16 56 42.60	+31 11 31.6	14.6	N	A77
C/2017 K2	2021 09 07.92453	16 56 42.59	+31 11 27.2	14.6	N	A77
C/2017 K2	2021 09 07.93223	16 56 42.59	+31 11 21.5	14.6	N	A77
C/2017 K2	2021 09 07.95477	16 56 42.58	+31 11 04.1	14.5	T	I81
C/2017 K2	2021 09 07.95618	16 56 42.58	+31 11 03.2	14.5	T	I81
C/2017 K2	2021 09 07.95903	16 56 42.57	+31 11 01.1	14.5	T	I81
C/2017 K2	2021 09 07.96116	16 56 42.57	+31 10 59.1	14.5	T	I81
C/2017 K2	2021 09 08.194217	16 56 42.24	+31 08 03.6	13.68G		703
C/2017 K2	2021 09 08.199613	16 56 42.21	+31 07 59.4	13.72G		703
C/2017 K2	2021 09 08.205880	16 56 42.21	+31 07 54.8	14.21G		703
C/2017 K2	2021 09 08.212205	16 56 42.22	+31 07 50.0	13.73G		703
C/2017 K2	2021 09 08.280103	16 56 42.06	+31 06 59.9	14.26o		T08
C/2017 K2	2021 09 08.284712	16 56 42.06	+31 06 57.0	15.50o		T08
C/2017 K2	2021 09 08.294848	16 56 42.03	+31 06 48.6	14.13o		T08
C/2017 K2	2021 09 08.301295	16 56 42.02	+31 06 43.8	14.18o		T08
C/2017 K2	2021 09 08.69713	16 56 41.61	+31 01 45.8	14.9	T	01C40
C/2017 K2	2021 09 08.69823	16 56 41.61	+31 01 44.9	14.9	T	01C40
C/2017 K2	2021 09 08.69932	16 56 41.61	+31 01 44.0	14.9	T	01C40
C/2017 K2	2021 09 08.70042	16 56 41.60	+31 01 43.4	14.8	T	01C40
C/2017 K2	2021 09 08.70150	16 56 41.61	+31 01 42.5	14.9	T	01C40
C/2017 K2	2021 09 08.70259	16 56 41.60	+31 01 41.6	14.9	T	01C40
C/2017 K2	2021 09 08.70369	16 56 41.60	+31 01 40.8	14.9	T	01C40
C/2017 K2	2021 09 08.70478	16 56 41.59	+31 01 39.9	14.8	T	01C40
C/2017 K2	2021 09 08.70587	16 56 41.59	+31 01 39.1	14.8	T	01C40
C/2017 K2	2021 09 08.70697	16 56 41.59	+31 01 38.3	14.8	T	01C40
C/2017 K2	2021 09 08.73316	16 56 41.54	+31 01 18.7	14.8	T	01C40
C/2017 K2	2021 09 08.73534	16 56 41.55	+31 01 17.1	14.9	T	01C40
C/2017 K2	2021 09 08.73644	16 56 41.55	+31 01 16.2	14.8	T	01C40
C/2017 K2	2021 09 08.73861	16 56 41.54	+31 01 14.5	14.9	T	01C40
C/2017 K2	2021 09 08.73971	16 56 41.54	+31 01 13.6	14.8	T	01C40
C/2017 K2	2021 09 08.74189	16 56 41.53	+31 01 12.2	14.8	T	01C40
C/2017 K2	2021 09 08.74297	16 56 41.53	+31 01 11.3	14.8	T	01C40
C/2017 K2	2021 09 08.78523	16 56 41.49	+31 00 39.4	14.8	T	01C40
C/2017 K2	2021 09 08.78632	16 56 41.47	+31 00 38.8	14.8	T	01C40
C/2017 K2	2021 09 08.78742	16 56 41.47	+31 00 37.7	14.8	T	01C40
C/2017 K2	2021 09 08.78851	16 56 41.48	+31 00 37.0	14.8	T	01C40
C/2017 K2	2021 09 08.78959	16 56 41.48	+31 00 36.1	14.8	T	01C40
C/2017 K2	2021 09 08.79069	16 56 41.47	+31 00 35.3	14.7	T	01C40
C/2017 K2	2021 09 08.79287	16 56 41.47	+31 00 33.8	14.8	T	01C40
C/2017 K2	2021 09 08.79397	16 56 41.46	+31 00 32.9	14.8	T	01C40
C/2017 K2	2021 09 08.79506	16 56 41.45	+31 00 32.0	14.8	T	01C40
C/2017 K2	2021 09 08.81201	16 56 41.44	+31 00 19.4	14.8	T	01C40
C/2017 K2	2021 09 08.81310	16 56 41.43	+31 00 18.4	14.8	T	01C40
C/2017 K2	2021 09 08.81529	16 56 41.44	+31 00 16.7	14.9	T	01C40
C/2017 K2	2021 09 08.81638	16 56 41.44	+31 00 16.0	14.8	T	01C40
C/2017 K2	2021 09 08.81747	16 56 41.43	+31 00 15.2	14.8	T	01C40
C/2017 K2	2021 09 08.82074	16 56 41.43	+31 00 12.7	14.9	T	01C40
C/2017 K2	2021 09 08.82620	16 56 41.44	+31 00 08.8	14.7	T	L63
C/2017 K2	2021 09 08.83209	16 56 41.43	+31 00 04.2	14.7	T	L63
C/2017 K2	2021 09 08.83870	16 56 41.42	+30 59 59.1	14.7	T	L63
C/2017 K2	2021 09 08.85034	16 56 41.40	+30 59 50.3	14.8	T	01C40
C/2017 K2	2021 09 08.85142	16 56 41.40	+30 59 49.5	14.9	T	01C40
C/2017 K2	2021 09 08.85470	16 56 41.39	+30 59 47.0	14.8	T	01C40
C/2017 K2	2021 09 08.85579	16 56 41.40	+30 59 46.1	14.9	T	01C40
C/2017 K2	2021 09 08.91113	16 56 41.40	+30 59 04.5	13.8	T	02G40
C/2017 K2	2021 09 08.91616	16 56 41.39	+30 59 00.7	13.8	T	02G40
C/2017 K2	2021 09 08.92222	16 56 41.39	+30 58 56.0	13.7	T	02G40
C/2017 K2	2021 09 09.69675	16 56 41.01	+30 49 13.3	14.7	T	01C40
C/2017 K2	2021 09 09.69781	16 56 41.01	+30 49 12.7	14.7	T	01C40
C/2017 K2	2021 09 09.69994	16 56 40.99	+30 49 11.0	14.8	T	01C40
C/2017 K2	2021 09 09.70101	16 56 41.00	+30 49 10.2	14.8	T	01C40
C/2017 K2	2021 09 09.70207	16 56 41.00	+30 49 09.4	14.8	T	01C40
C/2017 K2	2021 09 09.70419	16 56 41.00	+30 49 07.7	14.7	T	01C40

C/2017 K2	2021 09 09.70525	16 56 41.00	+30 49 07.1	14.8	T	01C40
C/2017 K2	2021 09 09.70632	16 56 41.00	+30 49 06.3	14.7	T	01C40
C/2017 K2	2021 09 09.72434	16 56 40.99	+30 48 52.6	14.9	T	01C40
C/2017 K2	2021 09 09.72543	16 56 40.98	+30 48 51.8	14.8	T	01C40
C/2017 K2	2021 09 09.72762	16 56 40.99	+30 48 50.1	14.8	T	01C40
C/2017 K2	2021 09 09.72870	16 56 40.98	+30 48 49.4	14.8	T	01C40
C/2017 K2	2021 09 09.72979	16 56 40.98	+30 48 48.5	14.8	T	01C40
C/2017 K2	2021 09 09.73088	16 56 40.97	+30 48 47.7	14.8	T	01C40
C/2017 K2	2021 09 09.73198	16 56 40.97	+30 48 46.8	14.8	T	01C40
C/2017 K2	2021 09 09.74703	16 56 40.98	+30 48 35.3	13.0	T	L60
C/2017 K2	2021 09 09.75066	16 56 40.98	+30 48 32.5			L60
C/2017 K2	2021 09 09.75186	16 56 40.98	+30 48 31.6			L60
C/2017 K2	2021 09 09.75619	16 56 40.98	+30 48 28.2			L60
C/2017 K2	2021 09 09.77553	16 56 40.95	+30 48 14.1	14.8	T	01C40
C/2017 K2	2021 09 09.77772	16 56 40.96	+30 48 12.5	14.8	T	01C40
C/2017 K2	2021 09 09.77881	16 56 40.96	+30 48 11.7	14.8	T	01C40
C/2017 K2	2021 09 09.77991	16 56 40.96	+30 48 10.8	14.8	T	01C40
C/2017 K2	2021 09 09.78100	16 56 40.95	+30 48 10.0	14.8	T	01C40
C/2017 K2	2021 09 09.78208	16 56 40.95	+30 48 09.1	14.8	T	01C40
C/2017 K2	2021 09 09.78317	16 56 40.96	+30 48 08.3	14.8	T	01C40
C/2017 K2	2021 09 09.78427	16 56 40.96	+30 48 07.5	14.8	T	01C40
C/2017 K2	2021 09 09.81743	16 56 40.94	+30 47 42.5	14.9	T	01C40
C/2017 K2	2021 09 09.81852	16 56 40.94	+30 47 41.6	14.9	T	01C40
C/2017 K2	2021 09 09.81961	16 56 40.94	+30 47 40.9	14.8	T	01C40
C/2017 K2	2021 09 09.82179	16 56 40.94	+30 47 39.3	14.8	T	01C40
C/2017 K2	2021 09 09.82403	16 56 41.01	+30 47 36.6	13.5	T	A98
C/2017 K2	2021 09 09.82507	16 56 40.94	+30 47 36.8	14.8	T	01C40
C/2017 K2	2021 09 09.82550	16 56 40.97	+30 47 35.7	13.6	T	A98
C/2017 K2	2021 09 09.82697	16 56 40.97	+30 47 34.5	13.6	T	A98
C/2017 K2	2021 09 09.82844	16 56 40.96	+30 47 33.4	13.6	T	A98
C/2017 K2	2021 09 09.83065	16 56 40.97	+30 47 31.7	13.6	T	A98
C/2017 K2	2021 09 09.83286	16 56 40.98	+30 47 30.0	13.6	T	A98
C/2017 K2	2021 09 09.83506	16 56 40.97	+30 47 28.3	13.7	T	A98
C/2017 K2	2021 09 09.83728	16 56 40.97	+30 47 26.7	13.6	T	A98
C/2017 K2	2021 09 09.85105	16 56 40.93	+30 47 17.2	14.9	T	01C40
C/2017 K2	2021 09 09.85323	16 56 40.94	+30 47 15.6	14.8	T	01C40
C/2017 K2	2021 09 09.85542	16 56 40.93	+30 47 13.8	14.8	T	01C40
C/2017 K2	2021 09 09.85760	16 56 40.93	+30 47 12.2	14.8	T	01C40
C/2017 K2	2021 09 09.85978	16 56 40.94	+30 47 10.7	14.8	T	01C40
C/2017 K2	2021 09 10.237111	16 56 41.02	+30 42 27.0	14.31c		T05
C/2017 K2	2021 09 10.240311	16 56 41.02	+30 42 24.6	14.28c		T05
C/2017 K2	2021 09 10.252824	16 56 41.01	+30 42 15.1	14.28c		T05
C/2017 K2	2021 09 10.263484	16 56 41.01	+30 42 07.1	14.26c		T05
C/2017 K2	2021 09 10.40620	16 56 41.11	+30 40 20.8	14.4	T	Q38
C/2017 K2	2021 09 10.40856	16 56 41.09	+30 40 18.6	14.3	T	Q38
C/2017 K2	2021 09 10.41094	16 56 41.08	+30 40 17.8	14.2	T	Q38
C/2017 K2	2021 09 10.70617	16 56 41.27	+30 36 33.7	14.9	T	01C40
C/2017 K2	2021 09 10.70829	16 56 41.27	+30 36 32.0	14.9	T	01C40
C/2017 K2	2021 09 10.71148	16 56 41.27	+30 36 29.7	14.9	T	01C40
C/2017 K2	2021 09 10.71255	16 56 41.27	+30 36 29.0	14.8	T	01C40
C/2017 K2	2021 09 10.71361	16 56 41.27	+30 36 28.0	14.8	T	01C40
C/2017 K2	2021 09 10.71468	16 56 41.26	+30 36 27.3	14.8	T	01C40
C/2017 K2	2021 09 10.80954	16 56 41.29	+30 35 16.2	16.4	T	A77
C/2017 K2	2021 09 10.82117	16 56 41.41	+30 35 07.0	14.6	T	L79
C/2017 K2	2021 09 10.82334	16 56 41.36	+30 35 06.1	13.1	T	A77
C/2017 K2	2021 09 10.82392	16 56 41.37	+30 35 04.6	14.7	T	L79
C/2017 K2	2021 09 10.82646	16 56 41.36	+30 35 02.7	14.8	T	L79
C/2017 K2	2021 09 10.84870	16 56 41.30	+30 34 46.5	14.9	T	01C40
C/2017 K2	2021 09 10.85029	16 56 41.38	+30 34 45.5	14.7	N	Z55
C/2017 K2	2021 09 10.85078	16 56 41.37	+30 34 45.2	14.7	N	Z55
C/2017 K2	2021 09 10.85127	16 56 41.37	+30 34 45.0	14.7	N	Z55
C/2017 K2	2021 09 10.85176	16 56 41.37	+30 34 44.5	14.7	N	Z55
C/2017 K2	2021 09 10.85225	16 56 41.37	+30 34 44.2	14.7	N	Z55
C/2017 K2	2021 09 11.81244	16 56 42.59	+30 22 41.6	15.3	T	G20
C/2017 K2	2021 09 11.81940	16 56 42.57	+30 22 36.8	15.3	T	G20
C/2017 K2	2021 09 11.82374	16 56 42.56	+30 22 33.4	15.5	T	K 160
C/2017 K2	2021 09 11.82713	16 56 42.59	+30 22 31.2	15.4	T	G20
C/2017 K2	2021 09 11.82775	16 56 42.56	+30 22 30.4	15.6	T	K 160
C/2017 K2	2021 09 11.83178	16 56 42.56	+30 22 27.6	15.6	T	K 160
C/2017 K2	2021 09 11.83674	16 56 42.56	+30 22 23.1	15.2	T	A29
C/2017 K2	2021 09 11.85825	16 56 42.62	+30 22 06.9	15.2	T	A29
C/2017 K2	2021 09 11.87749	16 56 42.60	+30 21 52.9	14.7	N	J01
C/2017 K2	2021 09 11.88445	16 56 42.63	+30 21 47.6	14.8	N	J38
C/2017 K2	2021 09 11.88830	16 56 42.61	+30 21 44.8	15.1	T	A29
C/2017 K2	2021 09 11.89130	16 56 42.64	+30 21 42.4	14.8	N	J38
C/2017 K2	2021 09 11.89473	16 56 42.63	+30 21 39.8	14.8	N	J38
C/2017 K2	2021 09 11.89589	16 56 42.65	+30 21 39.4	14.6	N	J01
C/2017 K2	2021 09 11.91432	16 56 42.66	+30 21 25.2	14.6	N	J01
C/2017 K2	2021 09 11.95139	16 56 42.72	+30 20 57.5	15.2	T	Z10
C/2017 K2	2021 09 11.95759	16 56 42.74	+30 20 52.9	15.2	T	Z10
C/2017 K2	2021 09 11.96537	16 56 42.75	+30 20 46.5	15.3	T	Z10
C/2017 K2	2021 09 12.86931	16 56 44.71	+30 09 26.9	14.7	N	J38
C/2017 K2	2021 09 12.87770	16 56 44.74	+30 09 20.1	14.7	N	J38
C/2017 K2	2021 09 12.88050	16 56 44.75	+30 09 18.1	14.8	N	J38
C/2017 K2	2021 09 13.69806	16 56 47.12	+29 59 03.4	14.8	T	01C40
C/2017 K2	2021 09 13.76591	16 56 47.30	+29 58 12.3	14.9	T	01C40
C/2017 K2	2021 09 13.77549	16 56 47.34	+29 58 05.0	14.9	T	01C40
C/2017 K2	2021 09 13.85837	16 56 47.64	+29 57 03.0	14.5	T	I81
C/2017 K2	2021 09 13.85978	16 56 47.64	+29 57 02.0	14.5	T	I81
C/2017 K2	2021 09 13.86263	16 56 47.65	+29 56 59.9	14.5	T	I81
C/2017 K2	2021 09 13.86477	16 56 47.66	+29 56 58.5	14.4	T	I81
C/2017 K2	2021 09 14.80214	16 56 51.12	+29 45 14.0	14.9	T	01C40
C/2017 K2	2021 09 14.80427	16 56 51.13	+29 45 12.4	14.9	T	01C40
C/2017 K2	2021 09 14.80747	16 56 51.14	+29 45 10.0	14.9	T	01C40
C/2017 K2	2021 09 14.81065	16 56 51.15	+29 45 07.7	14.9	T	01C40
C/2017 K2	2021 09 14.83449	16 56 51.24	+29 44 49.8	14.8	T	01C40
C/2017 K2	2021 09 14.83777	16 56 51.25	+29 44 47.3	14.9	T	01C40
C/2017 K2	2021 09 14.83995	16 56 51.27	+29 44 45.9	14.9	T	01C40
C/2017 K2	2021 09 14.84432	16 56 51.29	+29 44 42.6	15.0	T	01C40
C/2017 K2	2021 09 14.84705	16 56 51.32	+29 44 40.5	15.0	T	01C40
C/2017 K2	2021 09 14.85032	16 56 51.33	+29 44 38.0	14.9	T	01C40
C/2017 K2	2021 09 14.85470	16 56 51.36	+29 44 34.7	14.9	T	01C40
C/2017 K2	2021 09 14.85579	16 56 51.37	+29 44 33.8	14.9	T	01C40
C/2017 K2	2021 09 14.85688	16 56 51.37	+29 44 33.1	15.0	T	01C40
C/2017 K2	2021 09 15.79064	16 56 55.60	+29 32 52.4	14.9	T	01C40
C/2017 K2	2021 09 15.79719	16 56 55.63	+29 32 47.4	14.9	T	01C40

C/2017 K2	2021 09 15.80046	16 56 55.66	+29 32 44.9	14.9	T	01C40
C/2017 K2	2021 09 15.85208	16 56 55.94	+29 32 06.2	14.6	T	B96
C/2017 K2	2021 09 15.85703	16 56 55.95	+29 32 02.5	14.6	T	B96
C/2017 K2	2021 09 15.86196	16 56 55.99	+29 31 58.9	14.6	T	B96
C/2017 K2	2021 09 15.86666	16 56 55.99	+29 31 55.9	14.7	N	Z55
C/2017 K2	2021 09 15.86715	16 56 56.00	+29 31 55.5	14.6	N	Z55
C/2017 K2	2021 09 15.86764	16 56 56.00	+29 31 55.2	14.7	N	Z55
C/2017 K2	2021 09 15.86812	16 56 56.01	+29 31 55.0	14.7	N	Z55
C/2017 K2	2021 09 15.86861	16 56 55.99	+29 31 54.7	14.7	N	Z55
C/2017 K2	2021 09 15.87780	16 56 56.05	+29 31 47.3	14.6	T	K 970
C/2017 K2	2021 09 15.88069	16 56 56.06	+29 31 44.9	14.6	T	K 970
C/2017 K2	2021 09 15.91964	16 56 56.19	+29 31 15.5	15.5	T	C23
C/2017 K2	2021 09 15.92397	16 56 56.25	+29 31 12.1	15.0	T	C23
C/2017 K2	2021 09 15.92830	16 56 56.28	+29 31 08.9	15.5	T	C23
C/2017 K2	2021 09 16.79992	16 57 01.00	+29 20 16.0	14.8	T	01C40
C/2017 K2	2021 09 16.80211	16 57 01.00	+29 20 14.1	14.8	T	01C40
C/2017 K2	2021 09 16.80428	16 57 01.00	+29 20 12.6	14.8	T	01C40
C/2017 K2	2021 09 16.80756	16 57 01.02	+29 20 10.2	14.8	T	01C40
C/2017 K2	2021 09 16.83271	16 57 01.16	+29 19 51.0			K J36
C/2017 K2	2021 09 16.83644	16 57 01.21	+29 19 48.8			K J36
C/2017 K2	2021 09 16.84080	16 57 01.29	+29 19 46.2			K J36
C/2017 K2	2021 09 16.84918	16 57 01.24	+29 19 39.0	14.9	T	01C40
C/2017 K2	2021 09 16.85479	16 57 01.27	+29 19 34.6	14.9	T	01C40
C/2017 K2	2021 09 16.85698	16 57 01.29	+29 19 33.0	14.9	T	01C40
C/2017 K2	2021 09 16.86134	16 57 01.33	+29 19 30.0	14.8	T	01C40
C/2017 K2	2021 09 16.88610	16 57 01.51	+29 19 11.9	15.2	T	Z10
C/2017 K2	2021 09 16.89144	16 57 01.55	+29 19 07.8	15.1	T	Z10
C/2017 K2	2021 09 16.89753	16 57 01.56	+29 19 02.8	15.1	T	Z10
C/2017 K2	2021 09 16.89786	16 57 01.56	+29 19 02.7	14.7	T	970
C/2017 K2	2021 09 16.90117	16 57 01.58	+29 19 00.2	14.6	T	970
C/2017 K2	2021 09 17.74319	16 57 06.79	+29 08 29.8	14.9	T	01C40
C/2017 K2	2021 09 17.74975	16 57 06.82	+29 08 25.0	14.8	T	01C40
C/2017 K2	2021 09 17.75083	16 57 06.82	+29 08 24.0	14.8	T	01C40
C/2017 K2	2021 09 17.82980	16 57 07.32	+29 07 24.8	14.8	T	01C40
C/2017 K2	2021 09 17.83089	16 57 07.33	+29 07 24.0	14.9	T	01C40
C/2017 K2	2021 09 17.83635	16 57 07.37	+29 07 19.8	14.9	T	01C40
C/2017 K2	2021 09 17.83700	16 57 07.40	+29 07 20.6	14.7	N	Z55
C/2017 K2	2021 09 17.83755	16 57 07.42	+29 07 19.7	14.7	N	Z55
C/2017 K2	2021 09 17.83809	16 57 07.39	+29 07 19.5	14.7	N	Z55
C/2017 K2	2021 09 17.83864	16 57 07.40	+29 07 19.2	14.7	N	Z55
C/2017 K2	2021 09 17.83919	16 57 07.38	+29 07 19.0	14.7	N	Z55
C/2017 K2	2021 09 17.85771	16 57 07.52	+29 07 04.7	14.8	N	A03
C/2017 K2	2021 09 17.86809	16 57 07.60	+29 06 57.0	14.9	N	A03
C/2017 K2	2021 09 17.90552	16 57 07.82	+29 06 28.6	14.6	T	970
C/2017 K2	2021 09 17.90969	16 57 07.85	+29 06 25.3	14.6	T	970
C/2017 K2	2021 09 18.271891	16 57 10.31	+29 01 55.0	14.06o		T05
C/2017 K2	2021 09 18.275580	16 57 10.33	+29 01 52.2	14.05o		T05
C/2017 K2	2021 09 18.281106	16 57 10.36	+29 01 47.9	14.04o		T05
C/2017 K2	2021 09 18.298087	16 57 10.48	+29 01 35.2	13.99o		T05
C/2017 K2	2021 09 18.75609	16 57 13.76	+28 55 53.1	14.8	T	01C40
C/2017 K2	2021 09 18.75715	16 57 13.77	+28 55 52.2	14.8	T	01C40
C/2017 K2	2021 09 18.75928	16 57 13.78	+28 55 50.4	14.8	T	01C40
C/2017 K2	2021 09 18.76035	16 57 13.78	+28 55 49.8	14.8	T	01C40
C/2017 K2	2021 09 18.76140	16 57 13.80	+28 55 48.9	14.7	T	01C40
C/2017 K2	2021 09 18.76247	16 57 13.80	+28 55 48.1	14.8	T	01C40
C/2017 K2	2021 09 18.76459	16 57 13.83	+28 55 46.6	14.8	T	01C40
C/2017 K2	2021 09 18.76882	16 57 13.85	+28 55 43.6	14.8	T	01C40
C/2017 K2	2021 09 18.76988	16 57 13.86	+28 55 42.7	14.8	T	01C40
C/2017 K2	2021 09 18.77094	16 57 13.87	+28 55 42.0	14.7	T	01C40
C/2017 K2	2021 09 18.77626	16 57 13.90	+28 55 37.9	14.8	T	01C40

C/2017 T2 (PANSTARRS)

C/2017 T2	2021 08 19.30124	16 07 35.99	−45 28 32.5	18.3	T	K E94
C/2017 T2	2021 08 19.31134	16 07 36.07	−45 28 31.7	18.4	T	K E94
C/2017 T2	2021 08 19.32060	16 07 35.98	−45 28 31.6	18.4	T	K E94
C/2017 T2	2021 08 19.32905	16 07 36.12	−45 28 30.5	18.4	T	K E94

C/2017 U7 (PANSTARRS)

C/2017 U7	2021 08 05.96894	17 03 05.39	−11 18 18.4	18.0	T	X03
C/2017 U7	2021 08 05.98565	17 03 04.89	−11 18 17.6	19.0	T	K X03
C/2017 U7	2021 08 06.00014	17 03 04.47	−11 18 16.5	18.2	T	X03
C/2017 U7	2021 08 08.322586	17 02 00.94	−11 15 04.2	18.45o		T05
C/2017 U7	2021 08 08.326274	17 02 00.86	−11 15 04.2	16.83o		T05
C/2017 U7	2021 08 08.331811	17 02 00.68	−11 15 03.3	18.32o		T05
C/2017 U7	2021 08 08.342824	17 02 00.35	−11 15 02.7	18.46o		T05
C/2017 U7	2021 08 10.305004	17 01 09.31	−11 12 27.7	18.64c		T08
C/2017 U7	2021 08 10.305465	17 01 09.23	−11 12 26.5	18.77c		T08
C/2017 U7	2021 08 10.308230	17 01 09.18	−11 12 26.6	18.73c		T08
C/2017 U7	2021 08 10.308689	17 01 09.11	−11 12 26.6	18.93c		T08
C/2017 U7	2021 08 10.315600	17 01 09.02	−11 12 26.2	18.74c		T08
C/2017 U7	2021 08 10.318825	17 01 08.98	−11 12 26.8	17.17c		T08
C/2017 U7	2021 08 10.331768	17 01 08.52	−11 12 25.0	18.83c		T08
C/2017 U7	2021 08 10.86767	17 00 55.05	−11 11 43.9			K 215
C/2017 U7	2021 08 10.86857	17 00 55.03	−11 11 43.9	18.2	T	K 215
C/2017 U7	2021 08 10.86961	17 00 55.02	−11 11 44.5	18.4	T	K 215
C/2017 U7	2021 08 11.85781	17 00 30.62	−11 10 29.2	18.0	T	K77
C/2017 U7	2021 08 11.88118	17 00 29.94	−11 10 24.9	18.1	T	K77
C/2017 U7	2021 08 13.295776	16 59 55.91	−11 08 42.6	18.43o		T08
C/2017 U7	2021 08 13.298540	16 59 55.89	−11 08 43.4	16.93o		T08
C/2017 U7	2021 08 13.299925	16 59 55.80	−11 08 42.5	18.65o		T08
C/2017 U7	2021 08 13.302684	16 59 55.71	−11 08 42.7	18.57o		T08
C/2017 U7	2021 08 13.319260	16 59 55.36	−11 08 40.7	18.51o		T08
C/2017 U7	2021 08 13.322019	16 59 55.25	−11 08 40.8	18.82o		T08
C/2017 U7	2021 08 13.328931	16 59 55.25	−11 08 40.5	17.07o		T08
C/2017 U7	2021 08 13.333076	16 59 54.98	−11 08 40.7	18.49o		T08
C/2017 U7	2021 08 30.45238	16 54 40.21	−10 51 48.7	17.6	T	K Q11
C/2017 U7	2021 08 30.46121	16 54 40.10	−10 51 48.5			K Q11
C/2017 U7	2021 09 01.82769	16 54 10.46	−10 50 01.3	18.7	T	K77
C/2017 U7	2021 09 01.84181	16 54 10.27	−10 50 01.3	18.2	T	K77
C/2017 U7	2021 09 07.258659	16 53 14.04	−10 46 18.3	18.80o		T08
C/2017 U7	2021 09 07.264200	16 53 13.97	−10 46 17.8	18.58o		T08
C/2017 U7	2021 09 07.267881	16 53 14.01	−10 46 17.4	18.77o		T08
C/2017 U7	2021 09 07.280336	16 53 13.83	−10 46 17.8	18.73o		T08
C/2017 U7	2021 09 09.44826	16 52 56.08	−10 44 57.4	17.7	T	K Q11
C/2017 U7	2021 09 09.45391	16 52 56.03	−10 44 57.2			K Q11
C/2017 U7	2021 09 09.45992	16 52 55.99	−10 44 56.9			K Q11

C/2017 X1 (PANSTARRS)

C/2017 X1	2019 04 30.552570	13 45 47.88	−35 15 13.2	18.8 G	C57
Geocentric position (km)	−94429.4160	+381692.722	− 7078.6690		
C/2017 X1	2019 04 30.656737	13 45 46.07	−35 14 39.2	18.9 G	C57
Geocentric position (km)	−99376.9140	+379559.792	− 9290.2500		
C/2017 X1	2019 04 30.823403	13 45 41.91	−35 13 38.2	18.8 G	C57
Geocentric position (km)	−107182.016	+375723.861	−12816.6170		
C/2017 X1	2019 05 01.052570	13 45 36.56	−35 12 14.4	18.8 G	C57
Geocentric position (km)	−117671.185	+369596.706	−17632.9920		
C/2017 X1	2019 05 01.156736	13 45 34.55	−35 11 39.1	18.8 G	C57
Geocentric position (km)	−122337.745	+366484.350	−19806.4930		
C/2017 X1	2019 05 01.469236	13 45 26.56	−35 09 47.7	18.9 G	C57
Geocentric position (km)	−135917.033	+355912.549	−26251.9660		
C/2017 X1	2019 05 01.490070	13 45 26.31	−35 09 36.3	18.9 G	C57
Geocentric position (km)	−136798.335	+355141.595	−26677.0510		
C/2017 X1	2019 05 01.615070	13 45 23.70	−35 08 50.8	18.7 G	C57
Geocentric position (km)	−142018.686	+350341.179	−29213.6970		
C/2017 X1	2019 05 01.781736	13 45 19.80	−35 07 56.1	18.8 G	C57
Geocentric position (km)	−148790.624	+343472.672	−32555.5780		
C/2017 X1	2019 05 02.490069	13 45 02.83	−35 03 38.4	18.7 G	C57
Geocentric position (km)	−174776.609	+308210.170	−46094.0850		
C/2017 X1	2019 05 02.615069	13 44 59.77	−35 02 57.4	18.7 G	C57
Geocentric position (km)	−178818.340	+300945.782	−48343.0700		
C/2017 X1	2019 05 02.677569	13 44 58.33	−35 02 34.0	18.8 G	C57
Geocentric position (km)	−180769.517	+297193.934	−49448.5480		
C/2017 X1	2019 05 02.719236	13 44 56.86	−35 02 14.3	18.6 G	C57
Geocentric position (km)	−182043.588	+294648.123	−50178.1460		
C/2017 X1	2019 05 02.740069	13 44 56.82	−35 02 08.4	19.1 G	C57
Geocentric position (km)	−182672.456	+293361.799	−50540.6700		
C/2017 X1	2019 05 02.760902	13 44 56.49	−35 02 04.9	19.2 G	C57
Geocentric position (km)	−183295.810	+292066.510	−50901.6510		
C/2017 X1	2019 05 02.948402	13 44 51.71	−35 00 57.0	19.1 G	C57
Geocentric position (km)	−188648.946	+280002.945	−54077.6240		
C/2017 X1	2019 05 03.135902	13 44 47.22	−34 59 46.5	18.6 G	C57
Geocentric position (km)	−193509.934	+267200.448	−57111.1590		
C/2017 X1	2019 05 03.260902	13 44 44.20	−34 59 03.4	18.9 G	C57
Geocentric position (km)	−196454.823	+258248.930	−59045.7940		
C/2017 X1	2019 05 03.281735	13 44 44.10	−34 58 47.5	18.9 G	C57
Geocentric position (km)	−196921.378	+256724.291	−59360.9260		
C/2017 X1	2019 05 03.302569	13 44 43.33	−34 58 48.6	18.9 G	C57
Geocentric position (km)	−197380.812	+255190.256	−59673.8980		
C/2017 X1	2019 05 03.427569	13 44 40.37	−34 57 56.4	18.9 G	C57
Geocentric position (km)	−199983.700	+245787.737	−61504.7380		
C/2017 X1	2019 05 03.490069	13 44 38.97	−34 57 40.6	18.6 G	C57
Geocentric position (km)	−201182.837	+240958.177	−62388.5990		
C/2017 X1	2019 05 03.573402	13 44 36.75	−34 57 07.0	18.8 G	C57
Geocentric position (km)	−202670.649	+234384.602	−63532.4340		
C/2017 X1	2019 05 03.740069	13 44 32.71	−34 56 02.0	18.8 G	C57
Geocentric position (km)	−205244.460	+220773.070	−65693.0980		
C/2017 X1	2019 05 03.865069	13 44 29.27	−34 55 19.9	18.6 G	C57
Geocentric position (km)	−206799.235	+210153.499	−67193.0880		
C/2017 X1	2019 05 03.990069	13 44 26.40	−34 54 38.4	18.8 G	C57
Geocentric position (km)	−208006.991	+199177.452	−68579.9340		
C/2017 X1	2019 05 04.115068	13 44 23.96	−34 53 45.4	18.8 G	C57
Geocentric position (km)	−208842.661	+187841.326	−69843.7390		
C/2017 X1	2019 05 04.698402	13 44 09.72	−34 50 15.5	18.8 G	C57
Geocentric position (km)	−206919.602	+130100.901	−73753.7350		
C/2017 X1	2019 05 05.010901	13 44 01.97	−34 48 12.4	19.0 G	C57
Geocentric position (km)	−200971.535	+95888.4580	−74106.1260		
C/2017 X1	2019 05 05.260901	13 43 55.26	−34 46 41.5	18.8 G	C57
Geocentric position (km)	−192998.016	+66952.7700	−73203.2210		

C/2017 Y2 (PANSTARRS)

C/2017 Y2	2021 08 07.265511	15 15 49.94	−21 24 10.8	17.04o	T05
C/2017 Y2	2021 08 07.269188	15 15 49.80	−21 24 11.7	17.51o	T05
C/2017 Y2	2021 08 07.276102	15 15 49.63	−21 24 12.6	16.60o	T05
C/2017 Y2	2021 08 07.288960	15 15 49.26	−21 24 15.3	17.34o	T05
C/2017 Y2	2021 08 09.288381	15 14 55.14	−21 30 55.8	17.35c	T08
C/2017 Y2	2021 08 09.292539	15 14 55.03	−21 30 56.4	17.39c	T08
C/2017 Y2	2021 08 09.298067	15 14 54.86	−21 30 58.4	17.70c	T08
C/2017 Y2	2021 08 11.250145	15 14 06.24	−21 37 32.1	16.83o	T05
C/2017 Y2	2021 08 11.253823	15 14 05.97	−21 37 34.1	17.26o	T05
C/2017 Y2	2021 08 11.259819	15 14 05.83	−21 37 35.4	17.18o	T05
C/2017 Y2	2021 08 11.271789	15 14 05.56	−21 37 38.0	16.92o	T05
C/2017 Y2	2021 08 13.244624	15 13 20.17	−21 44 22.1	17.05o	T08
C/2017 Y2	2021 08 13.248303	15 13 20.08	−21 44 22.8	17.01o	T08
C/2017 Y2	2021 08 13.253842	15 13 19.97	−21 44 23.8	16.85o	T08
C/2017 Y2	2021 08 13.254762	15 13 20.03	−21 44 23.5	16.59o	T08
C/2017 Y2	2021 08 13.265359	15 13 19.71	−21 44 26.2	16.95o	T08
C/2017 Y2	2021 08 17.266081	15 11 59.43	−21 58 19.3	17.13o	T08
C/2017 Y2	2021 08 17.270236	15 11 59.37	−21 58 20.1	17.18o	T08
C/2017 Y2	2021 08 17.296983	15 11 58.90	−21 58 25.7	16.89o	T08
C/2017 Y2	2021 08 17.302760	15 11 58.97	−21 58 25.4	16.11o	T08
C/2017 Y2	2021 08 19.261467	15 11 25.08	−22 05 22.7	17.45o	T05
C/2017 Y2	2021 08 19.264692	15 11 25.02	−22 05 23.3	17.49o	T05
C/2017 Y2	2021 08 19.280315	15 11 24.75	−22 05 26.7	17.39o	T05
C/2017 Y2	2021 08 21.239692	15 10 54.60	−22 12 26.2	17.14o	T08
C/2017 Y2	2021 08 21.242920	15 10 54.55	−22 12 27.1	16.89o	T08
C/2017 Y2	2021 08 21.248451	15 10 54.48	−22 12 28.5	16.99o	T08
C/2017 Y2	2021 08 21.259049	15 10 54.32	−22 12 30.4	17.12o	T08

C/2018 A6 (Gibbs)

C/2018 A6	2021 08 08.466578	22 57 48.70	+02 12 09.4	19.11o	T05
C/2018 A6	2021 08 08.470259	22 57 48.47	+02 12 09.0	18.22o	T05
C/2018 A6	2021 08 08.475753	22 57 48.31	+02 12 09.7	18.75o	T05
C/2018 A6	2021 08 08.481242	22 57 48.09	+02 12 10.1	18.93o	T05
C/2018 A6	2021 08 11.430196	22 55 57.979	+02 13 58.80	19.88w	F51
C/2018 A6	2021 08 11.443391	22 55 57.478	+02 13 59.27	19.93w	F51
C/2018 A6	2021 08 11.456609	22 55 56.967	+02 13 59.69	19.85w	F51
C/2018 A6	2021 08 11.469838	22 55 56.459	+02 14 00.15	19.91w	F51
C/2018 A6	2021 08 14.467457	22 54 01.85	+02 15 22.0	19.33c	T08
C/2018 A6	2021 08 14.470686	22 54 01.76	+02 15 22.3	19.12c	T08
C/2018 A6	2021 08 14.491772	22 54 00.98	+02 15 22.6	19.31c	T08
C/2018 A6	2021 08 14.505847	22 54 00.47	+02 15 22.5	19.36c	T08
C/2018 A6	2021 08 14.527058	22 53 59.56	+02 15 22.8	19.16c	T08
C/2018 A6	2021 08 14.531763	22 53 59.38	+02 15 23.8	19.30c	T08
C/2018 A6	2021 08 15.68984	22 53 14.60	+02 15 45.8	18.5 R	D29

C/2018 A6	2021 08 15.70398	22 53 14.09	+02 15 46.2	18.4 R		D29
C/2018 A6	2021 08 15.71812	22 53 13.49	+02 15 47.1	19.2 R		D29
C/2018 A6	2021 08 16.456905	22 52 44.74	+02 16 01.6	18.45o		T05
C/2018 A6	2021 08 16.466109	22 52 44.45	+02 16 01.8	19.27o		T05
C/2018 A6	2021 08 16.482067	22 52 43.77	+02 16 01.1	18.97o		T05
C/2018 A6	2021 08 16.487615	22 52 43.53	+02 16 02.0	19.54o		T05
C/2018 A6	2021 08 18.430657	22 51 27.48	+02 16 28.6	19.20o		T08
C/2018 A6	2021 08 18.441254	22 51 26.98	+02 16 29.5	19.01o		T08
C/2018 A6	2021 08 18.450030	22 51 26.71	+02 16 29.3	19.05o		T08
C/2018 A6	2021 08 18.453313	22 51 26.50	+02 16 28.9	19.21o		T08
C/2018 A6	2021 08 31.380031	22 42 49.719	+02 15 23.43	20.25w		F52
C/2018 A6	2021 08 31.392898	22 42 49.198	+02 15 23.30	20.45w		F52
C/2018 A6	2021 08 31.405804	22 42 48.670	+02 15 22.89	20.25w		F52
C/2018 A6	2021 08 31.418758	22 42 48.150	+02 15 22.60	20.45w		F52
C/2018 A6	2021 09 07.211717	22 38 17.39	+02 12 22.2	18.74G		703
C/2018 A6	2021 09 07.217438	22 38 17.23	+02 12 23.1	18.56G		703
C/2018 A6	2021 09 07.223156	22 38 17.03	+02 12 22.2	18.99G		703
C/2018 A6	2021 09 07.228874	22 38 16.72	+02 12 22.9	18.75G		703
C/2018 A6	2021 09 09.169116	22 37 00.65	+02 11 18.4	18.52G		703
C/2018 A6	2021 09 09.174681	22 37 00.44	+02 11 17.3	18.76G		703
C/2018 A6	2021 09 09.180246	22 37 00.24	+02 11 17.0	18.52G		703
C/2018 A6	2021 09 09.185808	22 36 59.99	+02 11 16.1	18.53G		703
C/2018 A6	2021 09 10.232606	22 36 19.24	+02 10 40.5	18.63G		G96
C/2018 A6	2021 09 10.238276	22 36 19.01	+02 10 40.6	18.91G		G96
C/2018 A6	2021 09 10.243928	22 36 18.79	+02 10 40.0	18.61G		G96
C/2018 A6	2021 09 10.249599	22 36 18.57	+02 10 40.0	18.78G		G96
C/2018 A6	2021 09 13.11915	22 34 28.15	+02 08 53.0	18.9 T	K	X03
C/2018 A6	2021 09 13.12694	22 34 27.84	+02 08 52.8	18.8 T	K	X03
C/2018 A6	2021 09 13.13474	22 34 27.55	+02 08 52.4	18.7 T	K	X03

C/2018 F1 (Grauer)

C/2018 F1	2019 07 19.135869	20 15 17.17	+30 58 21.4	17.2 G		C57
Geocentric position (km)	+141115.186	+72529.6200	+54796.0850			
C/2018 F1	2019 07 19.156703	20 15 17.17	+30 58 20.6	17.4 G		C57
Geocentric position (km)	+141639.055	+75625.5990	+55207.1260			
C/2018 F1	2019 07 19.302536	20 15 11.60	+30 57 17.7	17.6 G		C57
Geocentric position (km)	+144317.933	+96732.7530	+57696.4790			
C/2018 F1	2019 07 19.323369	20 15 10.97	+30 57 09.2	17.5 G		C57
Geocentric position (km)	+144571.423	+99666.7050	+58000.8390			
C/2018 F1	2019 07 19.344203	20 15 09.74	+30 57 00.1	17.4 G		C57
Geocentric position (km)	+144795.330	+102580.279	+58293.3360			
C/2018 F1	2019 07 19.365036	20 15 09.38	+30 56 56.7	17.6 G		C57
Geocentric position (km)	+144990.479	+105473.497	+58574.2630			
C/2018 F1	2019 07 19.469203	20 15 04.81	+30 56 16.8	17.8 G		C57
Geocentric position (km)	+145561.650	+119635.745	+59814.8770			
C/2018 F1	2019 08 03.156696	20 08 02.03	+29 01 19.8	18.3 G		C57
Geocentric position (km)	+142763.803	+192624.902	+59684.2060			
C/2018 F1	2019 08 03.177530	20 08 01.69	+29 01 01.9	17.8 G		C57
Geocentric position (km)	+142298.122	+194853.695	+59682.0190			
C/2018 F1	2019 08 03.344196	20 07 57.41	+28 59 30.9	18.1 G		C57
Geocentric position (km)	+138162.484	+212100.656	+59490.1400			
C/2018 F1	2019 08 03.365030	20 07 56.05	+28 59 16.2	17.7 G		C57
Geocentric position (km)	+137597.668	+214185.125	+59445.5790			
C/2018 F1	2019 08 03.385863	20 07 55.66	+28 59 01.8	18.1 G		C57
Geocentric position (km)	+137022.923	+216254.058	+59396.7000			
C/2018 F1	2019 08 03.427530	20 07 54.65	+28 58 39.3	18.1 G		C57
Geocentric position (km)	+135844.433	+220345.702	+59286.2730			
C/2018 F1	2019 08 03.448363	20 07 53.95	+28 58 25.9	17.7 G		C57
Geocentric position (km)	+135241.068	+222368.604	+59224.8620			
C/2018 F1	2019 08 03.469196	20 07 53.64	+28 58 12.5	17.5 G		C57
Geocentric position (km)	+134628.536	+224376.353	+59159.4100			
C/2018 F1	2019 08 03.490030	20 07 52.98	+28 57 58.7	17.8 G		C57
Geocentric position (km)	+134007.018	+226369.041	+59089.9820			
C/2018 F1	2019 08 03.531696	20 07 51.84	+28 57 29.8	17.7 G		C57
Geocentric position (km)	+132737.717	+230309.607	+58939.4490			
C/2018 F1	2019 08 03.635863	20 07 48.81	+28 56 35.6	17.7 G		C57
Geocentric position (km)	+129418.968	+239903.826	+58497.8290			
C/2018 F1	2019 08 03.656696	20 07 47.89	+28 56 19.5	18.1 G		C57
Geocentric position (km)	+128731.532	+241779.284	+58398.7730			
C/2018 F1	2019 08 03.677529	20 07 48.05	+28 56 09.3	17.9 G		C57
Geocentric position (km)	+128036.548	+243640.481	+58296.2690			
C/2018 F1	2019 08 03.802529	20 07 44.53	+28 54 54.2	18.1 G		C57
Geocentric position (km)	+123715.915	+254512.831	+57611.6770			
C/2018 F1	2019 08 04.490029	20 07 25.69	+28 47 57.5	18.0 G		C57
Geocentric position (km)	+96305.8700	+305912.170	+52078.4800			
C/2018 F1	2019 08 04.531696	20 07 24.72	+28 47 34.8	17.8 G		C57
Geocentric position (km)	+94490.5460	+308601.993	+51663.7100			
C/2018 F1	2019 08 04.552529	20 07 23.88	+28 47 20.2	17.9 G		C57
Geocentric position (km)	+93577.6480	+309929.723	+51453.4460			
C/2018 F1	2019 08 04.615029	20 07 22.63	+28 46 46.1	17.6 G		C57
Geocentric position (km)	+90818.7760	+313844.808	+50811.4300			
C/2018 F1	2019 08 04.656696	20 07 21.69	+28 46 24.7	17.7 G		C57
Geocentric position (km)	+88963.3310	+316398.616	+50374.3090			
C/2018 F1	2019 08 04.698362	20 07 20.69	+28 46 00.2	18.0 G		C57
Geocentric position (km)	+87095.4890	+318907.885	+49930.1150			
C/2018 F1	2019 08 04.740029	20 07 19.57	+28 45 28.0	18.0 G		C57
Geocentric position (km)	+85215.7100	+321373.001	+49479.0290			
C/2018 F1	2019 08 05.615029	20 06 56.74	+28 36 41.6	17.5 G		C57
Geocentric position (km)	+43676.6110	+363537.486	+38686.2530			
C/2018 F1	2019 08 05.760862	20 06 53.40	+28 35 13.2	17.4 G		C57
Geocentric position (km)	+36490.3020	+368888.319	+36689.8860			
C/2018 F1	2019 08 05.885862	20 06 49.74	+28 33 58.0	17.8 G		C57
Geocentric position (km)	+30295.4890	+373115.524	+34943.6210			
C/2018 F1	2019 08 06.719195	20 06 29.33	+28 25 27.5	17.8 G		C57
Geocentric position (km)	−11390.4900	+393204.026	+22649.9910			
C/2018 F1	2019 08 07.531694	20 06 10.87	+28 17 04.0	17.5 G		C57
Geocentric position (km)	−51679.0650	+400021.530	+ 9968.9060			
C/2018 F1	2019 08 07.719194	20 06 06.49	+28 15 02.1	17.8 G		C57
Geocentric position (km)	−60797.9730	+399887.851	+ 6994.8250			
C/2018 F1	2019 08 07.823361	20 06 03.67	+28 13 54.8	17.9 G		C57
Geocentric position (km)	−65823.4910	+399542.583	+ 5339.2030			
C/2018 F1	2019 08 07.844194	20 06 03.60	+28 13 41.2	17.9 G		C57
Geocentric position (km)	−66824.8420	+399450.404	+ 5007.8920			
C/2018 F1	2019 08 07.865028	20 06 03.08	+28 13 31.5	17.8 G		C57
Geocentric position (km)	−67824.8990	+399350.532	+ 4676.5360			

C/2018 F1 2019 08 07.906694 20 06 02.42 +28 13 05.1 17.7 G C57
Geocentric position (km) −69821.0580 +399127.730 + 4013.7120
C/2018 F1 2019 08 07.948361 20 06 01.15 +28 12 38.2 17.6 G C57
Geocentric position (km) −71811.8190 +398874.224 + 3350.7830
C/2018 F1 2019 08 08.156694 20 05 56.58 +28 10 29.6 17.7 G C57
Geocentric position (km) −81679.4750 +397147.588 + 36.4450
C/2018 F1 2019 08 08.781694 20 05 42.86 +28 03 50.1 18.1 G C57
Geocentric position (km) −110262.537 +387407.228 − 9847.7020
C/2018 F1 2019 08 08.823361 20 05 41.84 +28 03 26.8 18.1 G C57
Geocentric position (km) −112105.008 +386515.592 −10500.5130

C/2018 F4 (PANSTARRS)

C/2018 F4 2021 09 10.397813 02 09 03.06 +01 25 55.6 19.73G G96
C/2018 F4 2021 09 10.403449 02 09 02.88 +01 25 55.8 19.43G G96
C/2018 F4 2021 09 10.409082 02 09 02.69 +01 25 56.1 19.60G G96
C/2018 F4 2021 09 10.414713 02 09 02.49 +01 25 55.8 19.54G G96
C/2018 F4-A 2021 08 14.681933 02 19 16.49 +01 11 18.7 21.1 T K 474
C/2018 F4-A 2021 08 14.688988 02 19 16.35 +01 11 18.9 21.0 T K 474
C/2018 F4-A 2021 08 14.696044 02 19 16.28 +01 11 19.8 21.3 T K 474
C/2018 F4-B 2021 08 14.681933 02 19 16.50 +01 10 49.9 21.3 T K 474
C/2018 F4-B 2021 08 14.688988 02 19 16.40 +01 10 49.1 21.5 T K 474
C/2018 F4-B 2021 08 14.696044 02 19 16.31 +01 10 51.1 21.4 T K 474

C/2018 KJ_3 (Lemmon)

C/2018 KJ_3 2019 05 24.865060 17 37 39.55 −38 17 03.3 16.6 G C57
Geocentric position (km) +112633.231 +300761.532 +71737.8130
C/2018 KJ_3 2019 05 24.906726 17 37 33.56 −38 17 29.2 16.7 G C57
Geocentric position (km) +110905.899 +303493.556 +71267.8620
C/2018 KJ_3 2019 05 24.948393 17 37 27.57 −38 17 52.6 16.9 G C57
Geocentric position (km) +109162.687 +306182.652 +70787.9570
C/2018 KJ_3 2019 05 24.990060 17 37 20.59 −38 18 26.7 17.0 G C57
Geocentric position (km) +107404.093 +308829.136 +70298.3290
C/2018 KJ_3 2019 05 25.010893 17 37 17.71 −38 18 39.8 16.8 G C57
Geocentric position (km) +106519.180 +310136.496 +70049.9400
C/2018 KJ_3 2019 05 25.031726 17 37 14.31 −38 18 54.8 17.0 G C57
Geocentric position (km) +105630.602 +311433.318 +69799.2040
C/2018 KJ_3 2019 05 25.094226 17 37 05.26 −38 19 29.3 16.8 G C57
Geocentric position (km) +102943.457 +315260.936 +69033.1850
C/2018 KJ_3 2019 05 25.115060 17 37 02.02 −38 19 46.8 16.8 G C57
Geocentric position (km) +102040.795 +316515.983 +68773.3300
C/2018 KJ_3 2019 05 25.135893 17 36 58.94 −38 20 00.3 16.6 G C57
Geocentric position (km) +101134.751 +317760.677 +68511.2600
C/2018 KJ_3 2019 05 25.198393 17 36 49.02 −38 20 45.2 16.6 G C57
Geocentric position (km) +98396.8730 +321433.003 +67712.0130
C/2018 KJ_3 2019 05 25.281726 17 36 36.72 −38 21 34.6 16.7 G C57
Geocentric position (km) +94702.2520 +326186.642 +66616.8450
C/2018 KJ_3 2019 05 25.448393 17 36 11.48 −38 23 23.9 16.5 G C57
Geocentric position (km) +87173.6870 +335212.371 +64330.9230
C/2018 KJ_3 2019 05 25.469226 17 36 07.77 −38 23 39.7 16.5 G C57
Geocentric position (km) +86220.4760 +336296.068 +64036.6520
C/2018 KJ_3 2019 05 25.490059 17 36 05.03 −38 23 52.8 16.7 G C57
Geocentric position (km) +85264.7180 +337369.976 +63740.5550
C/2018 KJ_3 2019 05 25.510893 17 36 01.84 −38 24 05.5 16.7 G C57
Geocentric position (km) +84306.4570 +338434.123 +63442.6540
C/2018 KJ_3 2019 05 25.552559 17 35 55.48 −38 24 27.2 16.4 G C57
Geocentric position (km) +82382.5950 +340533.259 +62841.5170
C/2018 KJ_3 2019 05 25.573393 17 35 52.28 −38 24 48.7 16.8 G C57
Geocentric position (km) +81417.0800 +341568.305 +62538.3210
C/2018 KJ_3 2019 05 25.635893 17 35 42.62 −38 25 27.2 16.8 G C57
Geocentric position (km) +78506.6950 +344615.702 +61618.4580
C/2018 KJ_3 2019 05 25.656726 17 35 39.44 −38 25 42.6 16.7 G C57
Geocentric position (km) +77532.0890 +345612.348 +61308.4750
C/2018 KJ_3 2019 05 25.677559 17 35 36.38 −38 25 51.6 16.7 G C57
Geocentric position (km) +76555.3110 +346599.464 +60996.8420
C/2018 KJ_3 2019 05 25.698393 17 35 32.96 −38 26 07.2 16.7 G C57
Geocentric position (km) +75576.4010 +347577.078 +60683.5770
C/2018 KJ_3 2019 05 25.844226 17 35 10.73 −38 27 44.2 16.7 G C57
Geocentric position (km) +68667.5200 +354156.531 +58446.5490
C/2018 KJ_3 2019 05 25.865059 17 35 07.56 −38 27 56.4 16.7 G C57
Geocentric position (km) +67672.9110 +355059.073 +58120.8720
C/2018 KJ_3 2019 05 25.885893 17 35 04.21 −38 28 14.1 16.4 G C57
Geocentric position (km) +66676.5050 +355952.345 +57793.7190
C/2018 KJ_3 2019 05 25.906726 17 35 01.50 −38 28 27.9 16.7 G C57
Geocentric position (km) +65678.3360 +356836.373 +57465.1090
C/2018 KJ_3 2019 05 25.948393 17 34 54.99 −38 28 50.0 16.9 G C57
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C/2018 KJ_3 2019 05 25.969226 17 34 51.75 −38 29 01.2 16.6 G C57
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C/2018 KJ_3 2019 05 25.990059 17 34 48.33 −38 29 19.6 16.6 G C57
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Geocentric position (km) +60662.2650 +361118.682 +55800.7480
C/2018 KJ_3 2019 05 26.031726 17 34 41.88 −38 29 43.7 17.0 G C57
Geocentric position (km) +59654.2420 +361947.742 +55463.7250
C/2018 KJ_3 2019 05 26.052559 17 34 38.35 −38 30 03.8 17.1 G C57
Geocentric position (km) +58644.6950 +362767.722 +55125.3540
C/2018 KJ_3 2019 05 26.240059 17 34 10.19 −38 31 58.8 16.6 G C57
Geocentric position (km) +49495.4020 +369742.573 +52021.8400
C/2018 KJ_3 2019 05 26.260892 17 34 06.16 −38 32 17.0 16.5 G C57
Geocentric position (km) +48472.3440 +370472.950 +51670.8060
C/2018 KJ_3 2019 05 26.281726 17 34 03.17 −38 32 24.3 16.2 G C57
Geocentric position (km) +47448.1020 +371194.481 +51318.5840
C/2018 KJ_3 2019 05 26.365059 17 33 50.38 −38 33 26.0 16.2 G C57
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C/2018 KJ_3 2019 05 26.802559 17 32 42.24 −38 38 11.5 16.2 G C57
Geocentric position (km) +21539.6320 +386412.243 +42164.8030
C/2018 KJ_3 2019 05 26.823392 17 32 39.39 −38 38 16.9 16.4 G C57
Geocentric position (km) +20494.3080 +386910.137 +41786.1550
C/2018 KJ_3 2019 05 27.406725 17 31 07.90 −38 44 35.7 16.0 G C57
Geocentric position (km) − 8878.0920 +397496.050 +30874.3580

C/2018 KJ_3	2019 05 27.448392	17 31 01.57	−38 44 56.6	15.9 G	C57
Geocentric position (km)	−10976.8130	+398007.990	+30075.1730		
C/2018 KJ_3	2019 05 27.469225	17 30 58.07	−38 45 15.0	15.8 G	C57
Geocentric position (km)	−12025.8730	+398251.915	+29674.7400		
C/2018 KJ_3	2019 05 27.490059	17 30 54.93	−38 45 26.1	15.8 G	C57
Geocentric position (km)	−13074.7060	+398487.823	+29273.7590		
C/2018 KJ_3	2019 05 27.510892	17 30 52.02	−38 45 41.3	15.9 G	C57
Geocentric position (km)	−14123.2890	+398715.724	+28872.2400		
C/2018 KJ_3	2019 05 27.531725	17 30 48.61	−38 45 53.5	16.3 G	C57
Geocentric position (km)	−15171.6040	+398935.625	+28470.1900		
C/2018 KJ_3	2019 05 27.594225	17 30 38.61	−38 46 31.9	16.3 G	C57
Geocentric position (km)	−18314.7260	+399547.425	+27260.9530		
C/2018 KJ_3	2019 05 27.615058	17 30 35.23	−38 46 46.7	16.4 G	C57
Geocentric position (km)	−19361.7570	+399735.419	+26856.8740		
C/2018 KJ_3	2019 05 27.635892	17 30 32.59	−38 46 53.7	16.4 G	C57
Geocentric position (km)	−20408.4170	+399915.458	+26452.3100		
C/2018 KJ_3	2019 05 27.656725	17 30 28.64	−38 47 09.3	16.3 G	C57
Geocentric position (km)	−21454.6840	+400087.548	+26047.2700		
C/2018 KJ_3	2019 05 27.677558	17 30 25.56	−38 47 22.0	16.3 G	C57
Geocentric position (km)	−22500.5380	+400251.699	+25641.7620		
C/2018 KJ_3	2019 05 27.698392	17 30 22.12	−38 47 37.7	16.4 G	C57
Geocentric position (km)	−23545.9600	+400407.918	+25235.7960		
C/2018 KJ_3	2019 05 27.719225	17 30 19.09	−38 47 49.5	16.3 G	C57
Geocentric position (km)	−24590.9280	+400556.214	+24829.3800		
C/2018 KJ_3	2019 05 27.802558	17 30 05.93	−38 48 45.8	16.4 G	C57
Geocentric position (km)	−28765.8670	+401070.305	+23199.3870		
C/2018 KJ_3	2019 05 27.969225	17 29 39.08	−38 50 30.8	16.7 G	C57
Geocentric position (km)	−37087.9060	+401720.307	+19920.4120		
C/2018 KJ_3	2019 05 27.990058	17 29 36.07	−38 50 43.7	16.3 G	C57
Geocentric position (km)	−38125.1640	+401766.230	+19508.9250		
C/2018 KJ_3	2019 05 28.031725	17 29 29.27	−38 51 14.1	16.5 G	C57
Geocentric position (km)	−40197.4640	+401834.588	+18684.9650		
C/2018 KJ_3	2019 05 28.052558	17 29 26.13	−38 51 22.0	16.3 G	C57
Geocentric position (km)	−41232.4670	+401857.036	+18272.5090		
C/2018 KJ_3	2019 05 28.073392	17 29 23.20	−38 51 33.0	16.4 G	C57
Geocentric position (km)	−42266.6790	+401871.669	+17859.7460		
C/2018 KJ_3	2019 05 28.094225	17 29 19.38	−38 51 52.6	16.3 G	C57
Geocentric position (km)	−43300.0800	+401878.493	+17446.6860		
C/2018 KJ_3	2019 05 28.135892	17 29 12.73	−38 52 18.7	16.2 G	C57
Geocentric position (km)	−45364.3730	+401868.735	+16619.7030		
C/2018 KJ_3	2019 05 28.323392	17 28 43.03	−38 54 12.4	16.3 G	C57
Geocentric position (km)	−54608.3970	+401439.530	+12885.6790		
C/2018 KJ_3	2019 05 28.656725	17 27 49.77	−38 57 40.2	16.8 G	C57
Geocentric position (km)	−70823.9540	+399126.429	+ 6210.9920		
C/2018 KJ_3	2019 05 28.677558	17 27 46.62	−38 57 57.0	16.5 G	C57
Geocentric position (km)	−71826.7020	+398916.188	+ 5792.8640		
C/2018 KJ_3	2019 05 28.719225	17 27 39.82	−38 58 25.2	16.3 G	C57
Geocentric position (km)	−73828.0350	+398472.566	+ 4956.4220		
C/2018 KJ_3	2019 05 28.885891	17 27 13.59	−39 00 02.3	16.4 G	C57
Geocentric position (km)	−81774.9420	+396389.672	+ 1609.3220		
C/2018 KJ_3	2019 05 28.906725	17 27 09.57	−39 00 21.6	16.4 G	C57
Geocentric position (km)	−82761.4000	+396094.626	+ 1190.9170		
C/2018 KJ_3	2019 05 28.927558	17 27 06.37	−39 00 31.4	16.3 G	C57
Geocentric position (km)	−83746.2550	+395791.874	+ 772.5330		
C/2018 KJ_3	2019 05 28.948391	17 27 03.62	−39 00 41.1	16.1 G	C57
Geocentric position (km)	−84729.4870	+395481.415	+ 354.1810		
C/2018 KJ_3	2019 05 28.969225	17 26 59.83	−39 00 56.4	16.2 G	C57
Geocentric position (km)	−85711.0760	+395163.250	− 64.1330		
C/2018 KJ_3	2019 05 29.177558	17 26 26.18	−39 03 03.8	15.6 G	C57
Geocentric position (km)	−95432.0290	+391557.607	− 4243.3750		
C/2018 KJ_3	2019 05 29.198391	17 26 22.45	−39 03 23.4	15.7 G	C57
Geocentric position (km)	−96394.1690	+391154.623	− 4660.7310		
C/2018 KJ_3	2019 05 29.219224	17 26 19.74	−39 03 28.6	15.7 G	C57
Geocentric position (km)	−97354.4160	+390743.920	− 5077.9510		
C/2018 KJ_3	2019 05 29.240058	17 26 16.35	−39 03 46.1	15.9 G	C57
Geocentric position (km)	−98312.7460	+390325.498	− 5495.0270		
C/2018 KJ_3	2019 05 29.260891	17 26 12.90	−39 03 58.0	16.2 G	C57
Geocentric position (km)	−99269.1380	+389899.354	− 5911.9500		
C/2018 KJ_3	2019 05 29.302558	17 26 06.39	−39 04 21.2	16.3 G	C57
Geocentric position (km)	−101176.024	+389023.892	− 6745.3070		
C/2018 KJ_3	2019 05 29.323391	17 26 02.90	−39 04 34.6	16.1 G	C57
Geocentric position (km)	−102126.474	+388574.570	− 7161.7230		
C/2018 KJ_3	2019 05 29.344224	17 25 59.04	−39 04 53.6	15.9 G	C57
Geocentric position (km)	−103074.900	+388117.518	− 7577.9540		
C/2018 KJ_3	2019 05 29.385891	17 25 52.68	−39 05 16.5	16.0 G	C57
Geocentric position (km)	−104965.590	+387180.211	− 8409.8250		
C/2018 KJ_3	2019 05 29.448391	17 25 42.41	−39 05 53.5	16.0 G	C57
Geocentric position (km)	−107785.889	+385716.205	− 9656.0310		
C/2018 KJ_3	2019 05 29.490058	17 25 35.77	−39 06 19.7	15.9 G	C57
Geocentric position (km)	−109655.337	+384701.468	−10485.6680		
C/2018 KJ_3	2019 05 29.531724	17 25 29.34	−39 06 46.0	16.2 G	C57
Geocentric position (km)	−111515.972	+383655.715	−11314.2910		
C/2018 KJ_3	2019 05 29.677558	17 25 05.40	−39 08 11.5	16.1 G	C57
Geocentric position (km)	−117956.145	+379750.895	−14205.4990		
C/2018 KJ_3	2019 05 29.698391	17 25 02.24	−39 08 24.5	15.9 G	C57
Geocentric position (km)	−118866.709	+379161.938	−14617.2720		
C/2018 KJ_3	2019 05 29.740058	17 24 55.12	−39 08 59.1	15.8 G	C57
Geocentric position (km)	−120680.503	+377960.634	−15439.7870		
C/2018 KJ_3	2019 05 29.760891	17 24 52.38	−39 09 01.4	16.0 G	C57
Geocentric position (km)	−121583.686	+377348.278	−15850.5110		
C/2018 KJ_3	2019 05 29.802558	17 24 45.34	−39 09 27.9	16.3 G	C57
Geocentric position (km)	−123382.499	+376100.133	−16670.8470		
C/2018 KJ_3	2019 05 29.906724	17 24 28.10	−39 10 37.8	16.2 G	C57
Geocentric position (km)	−127834.331	+372842.825	−18714.7720		
C/2018 KJ_3	2019 05 29.927558	17 24 24.75	−39 10 51.3	16.3 G	C57
Geocentric position (km)	−128716.748	+372167.842	−19122.2980		
C/2018 KJ_3	2019 05 29.990057	17 24 15.05	−39 11 25.5	16.1 G	C57
Geocentric position (km)	−131347.643	+370095.744	−20342.1860		
C/2018 KJ_3	2019 05 30.177557	17 23 44.08	−39 13 20.7	16.0 G	C57
Geocentric position (km)	−139086.978	+363453.561	−23975.4010		
C/2018 KJ_3	2019 05 30.198391	17 23 40.27	−39 13 35.5	16.0 G	C57
Geocentric position (km)	−139932.122	+362675.954	−24376.4290		
C/2018 KJ_3	2019 05 30.260891	17 23 30.64	−39 14 12.9	16.2 G	C57
Geocentric position (km)	−142449.098	+360295.434	−25576.0550		

C/2018 KJ_3 2019 05 30.469224 17 22 56.29 −39 16 18.6 16.2 G C57
Geocentric position (km) −150630.311 +351841.089 −29534.1600
C/2018 KJ_3 2019 05 30.552557 17 22 42.35 −39 17 10.3 15.9 G C57
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Geocentric position (km) −169505.109 +327156.443 −39092.9770
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Geocentric position (km) −172289.960 +322728.012 −40568.4390
C/2018 KJ_3 2019 05 31.094224 17 21 12.72 −39 22 34.7 16.5 G C57
Geocentric position (km) −172975.097 +321599.947 −40934.6400
C/2018 KJ_3 2019 05 31.115057 17 21 09.63 −39 22 42.5 16.5 G C57
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Geocentric position (km) −180832.680 +307403.037 −45239.2520
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Geocentric position (km) −182073.852 +304917.356 −45939.4600
C/2018 KJ_3 2019 05 31.406724 17 20 20.94 −39 25 39.4 16.0 G C57
Geocentric position (km) −182686.762 +303661.593 −46287.5930
C/2018 KJ_3 2019 05 31.427557 17 20 17.75 −39 25 51.5 16.0 G C57
Geocentric position (km) −183294.491 +302397.193 −46634.3900
C/2018 KJ_3 2019 05 31.448390 17 20 13.83 −39 26 06.5 16.0 G C57
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C/2018 KJ_3 2019 05 31.615057 17 19 46.31 −39 27 42.8 16.1 G C57
Geocentric position (km) −188522.633 +290626.192 −49692.4370
C/2018 KJ_3 2019 05 31.823390 17 19 11.29 −39 29 46.6 16.1 G C57
Geocentric position (km) −193788.327 +276709.985 −52944.8070
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Geocentric position (km) −208510.705 +204518.670 −64833.0770
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C/2018 KJ_3 2019 06 12.052552 16 46 17.26 −40 54 05.4 15.6 G C57
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C/2018 KJ_3 2019 06 12.198385 16 45 50.98 −40 54 56.2 15.5 G C57
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Geocentric position (km) −71547.7120 +401480.562 + 5932.3340
C/2018 KJ_3 2019 06 12.344218 16 45 25.17 −40 55 42.3 16.4 G C57
Geocentric position (km) −72528.8880 +401240.378 + 5526.3300
C/2018 KJ_3 2019 06 12.406718 16 45 14.43 −40 55 59.6 16.2 G C57
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C/2018 KJ_3 2019 06 12.427552 16 45 10.11 −40 56 09.1 16.2 G C57
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C/2018 KJ_3 2019 06 12.490052 16 44 58.92 −40 56 32.1 16.0 G C57
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C/2018 KJ_3 2019 06 12.677552 16 44 25.44 −40 57 31.2 16.3 G C57
Geocentric position (km) −88010.7890 +396367.392 − 971.4020
C/2018 KJ_3 2019 06 12.698385 16 44 22.41 −40 57 30.5 16.2 G C57
Geocentric position (km) −88963.8420 +395998.453 − 1377.2100
C/2018 KJ_3 2019 06 12.719218 16 44 18.61 −40 57 39.6 16.2 G C57
Geocentric position (km) −89915.0610 +395621.935 − 1782.9350

C/2018 KJ_3	2019 06 12.740052	16 44 14.79	−40 57 46.7	16.2 G	C57
Geocentric position (km)	−90864.4260	+395237.839	− 2188.5690		
C/2018 KJ_3	2019 06 12.760885	16 44 10.74	−40 57 57.3	16.1 G	C57
Geocentric position (km)	−91811.9170	+394846.162	− 2594.1030		
C/2018 KJ_3	2019 06 12.781718	16 44 07.18	−40 57 59.0	16.3 G	C57
Geocentric position (km)	−92757.5120	+394446.904	− 2999.5300		
C/2018 KJ_3	2019 06 12.802552	16 44 03.67	−40 58 05.6	16.0 G	C57
Geocentric position (km)	−93701.1920	+394040.062	− 3404.8420		
C/2018 KJ_3	2019 06 12.823385	16 44 00.22	−40 58 11.3	15.8 G	C57
Geocentric position (km)	−94642.9360	+393625.635	− 3810.0310		
C/2018 KJ_3	2019 06 12.865052	16 43 52.50	−40 58 26.8	15.5 G	C57
Geocentric position (km)	−96520.5320	+392774.018	− 4620.0040		
C/2018 KJ_3	2019 06 12.885885	16 43 48.62	−40 58 34.4	15.8 G	C57
Geocentric position (km)	−97456.3420	+392336.824	− 5024.7740		
C/2018 KJ_3	2019 06 12.906718	16 43 44.82	−40 58 40.3	16.1 G	C57
Geocentric position (km)	−98390.1340	+391892.036	− 5429.3870		
C/2018 KJ_3	2019 06 12.969218	16 43 34.16	−40 58 56.5	16.2 G	C57
Geocentric position (km)	−101179.180	+390512.089	− 6642.2070		
C/2018 KJ_3	2019 06 13.052552	16 43 19.40	−40 59 21.9	16.2 G	C57
Geocentric position (km)	−104868.352	+388565.689	− 8256.6150		
C/2018 KJ_3	2019 06 13.219218	16 42 49.56	−41 00 14.3	16.0 G	C57
Geocentric position (km)	−112140.156	+384307.065	−11474.2060		
C/2018 KJ_3	2019 06 13.240051	16 42 45.36	−41 00 22.6	16.0 G	C57
Geocentric position (km)	−113038.713	+383740.367	−11875.1870		
C/2018 KJ_3	2019 06 13.260885	16 42 42.11	−41 00 25.3	16.3 G	C57
Geocentric position (km)	−113934.880	+383166.016	−12275.8690		
C/2018 KJ_3	2019 06 13.281718	16 42 38.01	−41 00 36.1	16.1 G	C57
Geocentric position (km)	−114828.634	+382584.008	−12676.2420		
C/2018 KJ_3	2019 06 13.302551	16 42 34.47	−41 00 41.9	16.2 G	C57
Geocentric position (km)	−115719.952	+381994.338	−13076.2980		
C/2018 KJ_3	2019 06 13.344218	16 42 27.08	−41 00 51.7	16.1 G	C57
Geocentric position (km)	−117495.188	+380791.994	−13875.4250		
C/2018 KJ_3	2019 06 13.365051	16 42 23.31	−41 00 57.9	16.1 G	C57
Geocentric position (km)	−118379.059	+380179.309	−14274.4780		
C/2018 KJ_3	2019 06 13.469218	16 42 04.74	−41 01 33.6	16.1 G	C57
Geocentric position (km)	−122760.006	+377000.539	−16264.2750		
C/2018 KJ_3	2019 06 13.490051	16 42 01.38	−41 01 34.2	16.5 G	C57
Geocentric position (km)	−123628.347	+376341.675	−16661.0780		
C/2018 KJ_3	2019 06 13.552551	16 41 49.49	−41 01 57.5	16.4 G	C57
Geocentric position (km)	−126217.233	+374318.755	−17849.0100		
C/2018 KJ_3	2019 06 13.573385	16 41 46.00	−41 02 01.8	16.0 G	C57
Geocentric position (km)	−127074.735	+373628.983	−18244.1300		
C/2018 KJ_3	2019 06 13.615051	16 41 39.32	−41 02 07.9	16.1 G	C57
Geocentric position (km)	−128781.397	+372226.203	−19033.0280		
C/2018 KJ_3	2019 06 13.635885	16 41 35.14	−41 02 16.2	16.2 G	C57
Geocentric position (km)	−129630.508	+371513.180	−19426.7880		
C/2018 KJ_3	2019 06 13.656718	16 41 31.45	−41 02 24.4	16.2 G	C57
Geocentric position (km)	−130476.771	+370792.393	−19820.0740		
C/2018 KJ_3	2019 06 13.677551	16 41 27.54	−41 02 29.4	16.3 G	C57
Geocentric position (km)	−131320.160	+370063.834	−20212.8790		
C/2018 KJ_3	2019 06 13.719218	16 41 19.94	−41 02 43.7	16.3 G	C57
Geocentric position (km)	−132998.216	+368583.369	−20997.0030		
C/2018 KJ_3	2019 06 13.760885	16 41 13.29	−41 02 50.9	16.3 G	C57
Geocentric position (km)	−134664.464	+367071.725	−21779.0800		
C/2018 KJ_3	2019 06 13.823385	16 41 01.46	−41 03 17.1	16.2 G	C57
Geocentric position (km)	−137141.236	+364745.657	−22948.1880		
C/2018 KJ_3	2019 06 13.969218	16 40 34.98	−41 03 57.2	15.7 G	C57
Geocentric position (km)	−142811.077	+359043.492	−25655.9770		
C/2018 KJ_3	2019 06 14.010884	16 40 27.71	−41 04 09.2	16.2 G	C57
Geocentric position (km)	−144401.919	+357343.344	−26424.0810		
C/2018 KJ_3	2019 06 14.031718	16 40 24.05	−41 04 17.3	16.6 G	C57
Geocentric position (km)	−145192.344	+356481.396	−26807.1560		
C/2018 KJ_3	2019 06 14.052551	16 40 20.91	−41 04 18.6	16.5 G	C57
Geocentric position (km)	−145979.399	+355611.519	−27189.5630		
C/2018 KJ_3	2019 06 14.073384	16 40 16.87	−41 04 24.4	16.3 G	C57
Geocentric position (km)	−146763.055	+354733.702	−27571.2930		
C/2018 KJ_3	2019 06 14.094218	16 40 13.32	−41 04 34.2	16.2 G	C57
Geocentric position (km)	−147543.281	+353847.934	−27952.3350		
C/2018 KJ_3	2019 06 14.135884	16 40 05.16	−41 04 47.7	16.2 G	C57
Geocentric position (km)	−149093.325	+352052.508	−28712.3090		
C/2018 KJ_3	2019 06 14.156718	16 40 01.97	−41 04 51.1	16.3 G	C57
Geocentric position (km)	−149863.080	+351142.827	−29091.2180		
C/2018 KJ_3	2019 06 14.177551	16 39 58.28	−41 04 53.3	16.2 G	C57
Geocentric position (km)	−150629.284	+350225.152	−29469.3940		
C/2018 KJ_3	2019 06 14.198384	16 39 54.78	−41 04 59.2	16.2 G	C57
Geocentric position (km)	−151391.905	+349299.474	−29846.8250		
C/2018 KJ_3	2019 06 14.260884	16 39 43.34	−41 05 17.3	16.5 G	C57
Geocentric position (km)	−153657.950	+346474.298	−30974.5310		
C/2018 KJ_3	2019 06 14.281718	16 39 39.52	−41 05 24.5	16.3 G	C57
Geocentric position (km)	−154405.919	+345516.487	−31348.8660		
C/2018 KJ_3	2019 06 14.302551	16 39 35.62	−41 05 33.1	16.3 G	C57
Geocentric position (km)	−155150.145	+344550.613	−31722.3960		
C/2018 KJ_3	2019 06 14.510884	16 38 58.24	−41 06 30.7	16.2 G	C57
Geocentric position (km)	−162379.054	+334445.671	−35410.7840		
C/2018 KJ_3	2019 06 14.531718	16 38 54.89	−41 06 37.2	16.0 G	C57
Geocentric position (km)	−163079.844	+333390.268	−35774.6520		
C/2018 KJ_3	2019 06 14.552551	16 38 50.84	−41 06 46.7	16.3 G	C57
Geocentric position (km)	−163776.472	+332326.644	−36137.5640		
C/2018 KJ_3	2019 06 14.573384	16 38 46.83	−41 06 48.8	16.0 G	C57
Geocentric position (km)	−164468.901	+331254.787	−36499.5050		
C/2018 KJ_3	2019 06 16.156717	16 34 02.56	−41 13 44.1	15.9 G	C57
Geocentric position (km)	−201200.200	+224328.830	−59864.6080		
C/2018 KJ_3	2019 06 16.198383	16 33 55.49	−41 13 51.8	16.0 G	C57
Geocentric position (km)	−201616.215	+220790.929	−60323.0170		
C/2018 KJ_3	2019 06 16.219217	16 33 52.27	−41 13 58.1	16.3 G	C57
Geocentric position (km)	−201810.405	+219007.029	−60548.0330		
C/2018 KJ_3	2019 06 16.260883	16 33 44.45	−41 14 05.7	16.1 G	C57
Geocentric position (km)	−202170.600	+215409.187	−60989.4900		
C/2018 KJ_3	2019 06 16.302550	16 33 36.96	−41 14 17.8	15.9 G	C57
Geocentric position (km)	−202492.459	+211771.090	−61419.2300		
C/2018 KJ_3	2019 06 16.323383	16 33 32.63	−41 14 28.4	15.9 G	C57
Geocentric position (km)	−202638.721	+209936.872	−61629.5990		
C/2018 KJ_3	2019 06 16.365050	16 33 25.08	−41 14 37.4	16.3 G	C57
Geocentric position (km)	−202901.311	+206237.949	−62041.1140		

C/2018 KJ_3	2019 06 16.385883	16 33 21.88	−41 14 39.3	16.2	G	C57			
Geocentric position (km)	−203017.392	+204373.185	−62242.1670						
C/2018 KJ_3	2019 06 16.406717	16 33 17.77	−41 14 47.0	16.1	G	C57			
Geocentric position (km)	−203123.161	+202498.180	−62440.0230						
C/2018 KJ_3	2019 06 16.427550	16 33 13.95	−41 14 52.2	16.1	G	C57			
Geocentric position (km)	−203218.489	+200612.903	−62634.6320						
C/2018 KJ_3	2019 06 16.448383	16 33 10.17	−41 14 58.6	16.0	G	C57			
Geocentric position (km)	−203303.245	+198717.325	−62825.9460						
C/2018 KJ_3	2019 06 16.490050	16 33 02.29	−41 15 10.2	16.2	G	C57			
Geocentric position (km)	−203440.501	+194895.148	−63198.4880						
C/2018 KJ_3	2019 06 16.510883	16 32 59.27	−41 15 11.6	16.2	G	C57			
Geocentric position (km)	−203492.724	+192968.490	−63379.6140						
C/2018 KJ_3	2019 06 16.531717	16 32 54.61	−41 15 16.6	16.1	G	C57			
Geocentric position (km)	−203533.823	+191031.413	−63557.2380						
C/2018 KJ_3	2019 06 16.594217	16 32 43.54	−41 15 30.9	16.3	G	C57			
Geocentric position (km)	−203588.908	+185157.373	−64068.5600						
C/2018 KJ_3	2019 06 16.615050	16 32 40.36	−41 15 35.9	16.4	G	C57			
Geocentric position (km)	−203584.031	+183178.327	−64231.6290						
C/2018 KJ_3	2019 06 16.635883	16 32 36.35	−41 15 43.7	16.1	G	C57			
Geocentric position (km)	−203567.276	+181188.717	−64390.9150						
C/2018 KJ_3	2019 06 16.656717	16 32 32.76	−41 15 49.1	16.1	G	C57			
Geocentric position (km)	−203538.484	+179188.514	−64546.3590						
C/2018 KJ_3	2019 06 16.677550	16 32 28.67	−41 15 54.1	16.0	G	C57			
Geocentric position (km)	−203497.490	+177177.691	−64697.8990						
C/2018 KJ_3	2019 06 16.719217	16 32 20.86	−41 16 06.5	16.1	G	C57			
Geocentric position (km)	−203378.233	+173124.071	−64989.0150						
C/2018 KJ_3	2019 06 16.740050	16 32 17.28	−41 16 11.3	16.4	G	C57			
Geocentric position (km)	−203299.625	+171081.221	−65128.4620						
C/2018 KJ_3	2019 06 16.760883	16 32 13.83	−41 16 12.8	16.2	G	C57			
Geocentric position (km)	−203208.131	+169027.640	−65263.7470						
C/2018 KJ_3	2019 06 16.781717	16 32 09.87	−41 16 19.5	16.2	G	C57			
Geocentric position (km)	−203103.569	+166963.303	−65394.8010						
C/2018 KJ_3	2019 06 16.885883	16 31 51.06	−41 16 44.4	16.1	G	C57			
Geocentric position (km)	−202378.154	+156479.394	−65984.1140						
C/2018 KJ_3	2019 06 16.906717	16 31 47.58	−41 16 45.9	16.0	G	C57			
Geocentric position (km)	−202191.173	+154350.000	−66088.2620						
C/2018 KJ_3	2019 06 16.948383	16 31 40.35	−41 16 56.5	16.2	G	C57			
Geocentric position (km)	−201773.662	+150058.420	−66282.2150						
C/2018 KJ_3	2019 06 16.969217	16 31 35.87	−41 17 04.6	16.4	G	C57			
Geocentric position (km)	−201542.698	+147896.194	−66371.8540						
C/2018 KJ_3	2019 06 16.990050	16 31 32.29	−41 17 09.1	16.3	G	C57			
Geocentric position (km)	−201296.631	+145722.985	−66456.4880						
C/2018 KJ_3	2019 06 17.010883	16 31 28.21	−41 17 14.2	16.2	G	C57			
Geocentric position (km)	−201035.232	+143538.774	−66536.0290						
C/2018 KJ_3	2019 06 17.031716	16 31 24.40	−41 17 20.4	16.2	G	C57			
Geocentric position (km)	−200758.266	+141343.546	−66610.3860						
C/2018 KJ_3	2019 06 17.052550	16 31 20.88	−41 17 22.6	16.1	G	C57			
Geocentric position (km)	−200465.495	+139137.284	−66679.4690						
C/2018 KJ_3	2019 06 17.073383	16 31 17.02	−41 17 28.0	16.1	G	C57			
Geocentric position (km)	−200156.671	+136919.976	−66743.1810						
C/2018 KJ_3	2019 06 17.094216	16 31 13.20	−41 17 33.6	16.1	G	C57			
Geocentric position (km)	−199831.544	+134691.607	−66801.4260						
C/2018 KJ_3	2019 06 17.115050	16 31 09.72	−41 17 38.1	16.1	G	C57			
Geocentric position (km)	−199489.856	+132452.168	−66854.1060						
C/2018 KJ_3	2019 06 17.135883	16 31 05.87	−41 17 42.9	16.1	G	C57			
Geocentric position (km)	−199131.345	+130201.648	−66901.1170						
C/2018 KJ_3	2019 06 17.156716	16 31 02.00	−41 17 49.1	16.2	G	C57			
Geocentric position (km)	−198755.741	+127940.040	−66942.3560						
C/2018 KJ_3	2019 06 17.177550	16 30 58.61	−41 17 50.1	16.3	G	C57			
Geocentric position (km)	−198362.767	+125667.339	−66977.7160						
C/2018 KJ_3	2019 06 17.198383	16 30 54.99	−41 17 55.6	16.3	G	C57			
Geocentric position (km)	−197952.141	+123383.540	−67007.0860						
C/2018 KJ_3	2019 06 17.281716	16 30 39.57	−41 18 15.8	16.1	G	C57			
Geocentric position (km)	−196127.217	+114137.379	−67062.3760						
C/2018 KJ_3	2019 06 17.302550	16 30 35.89	−41 18 20.8	16.1	G	C57			
Geocentric position (km)	−195623.840	+111798.121	−67060.0480						
C/2018 KJ_3	2019 06 17.323383	16 30 31.80	−41 18 24.8	16.0	G	C57			
Geocentric position (km)	−195100.962	+109447.795	−67051.0070						
C/2018 KJ_3	2019 06 17.344216	16 30 28.20	−41 18 31.5	15.9	G	C57			
Geocentric position (km)	−194558.246	+107086.416	−67035.1230						
C/2018 KJ_3	2019 06 17.365050	16 30 24.06	−41 18 38.0	15.8	G	C57			
Geocentric position (km)	−193995.347	+104714.004	−67012.2570						
C/2018 KJ_3	2019 06 17.385883	16 30 20.34	−41 18 42.2	16.0	G	C57			
Geocentric position (km)	−193411.912	+102330.579	−66982.2720						
C/2018 KJ_3	2019 06 17.406716	16 30 16.65	−41 18 46.0	16.0	G	C57			
Geocentric position (km)	−192807.579	+99936.1690	−66945.0240						
C/2018 KJ_3	2019 06 17.427550	16 30 12.76	−41 18 49.8	16.2	G	C57			
Geocentric position (km)	−192181.974	+97530.8040	−66900.3640						
C/2018 KJ_3	2019 06 17.469216	16 30 05.23	−41 18 59.4	16.2	G	C57			
Geocentric position (km)	−190865.413	+92687.3540	−66788.2000						
C/2018 KJ_3	2019 06 17.490050	16 30 01.96	−41 19 02.6	16.1	G	C57			
Geocentric position (km)	−190173.661	+90249.3530	−66720.3790						
C/2018 KJ_3	2019 06 17.510883	16 29 58.12	−41 19 03.1	16.1	G	C57			
Geocentric position (km)	−189459.046	+87800.5670	−66644.5130						
C/2018 KJ_3	2019 06 17.552550	16 29 50.34	−41 19 18.2	16.2	G	C57			
Geocentric position (km)	−187959.519	+82870.8720	−66467.9600						
C/2018 KJ_3	2019 06 17.573383	16 29 46.48	−41 19 21.7	16.0	G	C57			
Geocentric position (km)	−187173.722	+80390.0940	−66366.9180						
C/2018 KJ_3	2019 06 17.635883	16 29 35.28	−41 19 37.6	16.0	G	C57			
Geocentric position (km)	−184666.621	+72884.9780	−66010.4800						
C/2018 KJ_3	2019 06 17.656716	16 29 31.37	−41 19 39.6	16.2	G	C57			
Geocentric position (km)	−183779.395	+70362.6520	−65873.2380						
C/2018 KJ_3	2019 06 17.760883	16 29 11.77	−41 20 08.5	16.2	G	C57			
Geocentric position (km)	−178933.294	+57601.5540	−65039.2280						
C/2018 KJ_3	2019 06 17.781716	16 29 07.87	−41 20 15.7	16.5	G	C57			
Geocentric position (km)	−177878.154	+55020.4360	−64841.2530						
C/2018 KJ_3	2019 06 17.802549	16 29 04.00	−41 20 18.4	16.4	G	C57			
Geocentric position (km)	−176792.990	+52430.0750	−64632.3160						
C/2018 KJ_3	2019 06 17.823383	16 29 00.59	−41 20 22.1	16.3	G	C57			
Geocentric position (km)	−175677.171	+49830.6660	−64412.1560						
C/2018 KJ_3	2019 06 17.844216	16 28 56.93	−41 20 24.4	16.4	G	C57			
Geocentric position (km)	−174530.052	+47222.4200	−64180.5020						
C/2018 KJ_3	2019 06 17.885883	16 28 49.16	−41 20 33.8	16.0	G	C57			
Geocentric position (km)	−172139.229	+41980.3440	−63681.5950						

C/2018 KJ_3	2019 06 17.906716	16 28 45.21	−41 20 40.2	16.0	G		C57
Geocentric position (km)	−170894.133	+39347.0250	−63413.7560				
C/2018 KJ_3	2019 06 17.927549	16 28 41.27	−41 20 47.3	15.7	G		C57
Geocentric position (km)	−169614.951	+36705.8930	−63133.2550				
C/2018 KJ_3	2019 06 17.948383	16 28 37.86	−41 20 46.6	15.7	G		C57
Geocentric position (km)	−168300.936	+34057.2570	−62839.7740				
C/2018 KJ_3	2019 06 17.969216	16 28 33.67	−41 20 53.5	15.8	G		C57
Geocentric position (km)	−166951.317	+31401.4470	−62532.9870				
C/2018 KJ_3	2019 06 17.990049	16 28 29.82	−41 21 00.0	16.1	G		C57
Geocentric position (km)	−165565.300	+28738.8220	−62212.5550				
C/2018 KJ_3	2019 06 18.010883	16 28 26.17	−41 21 01.8	16.2	G		C57
Geocentric position (km)	−164142.069	+26069.7650	−61878.1270				
C/2018 KJ_3	2019 06 18.031716	16 28 22.94	−41 21 03.6	16.1	G		C57
Geocentric position (km)	−162680.782	+23394.6920	−61529.3410				
C/2018 KJ_3	2019 06 18.052549	16 28 18.43	−41 21 11.1	16.3	G		C57
Geocentric position (km)	−161180.573	+20714.0460	−61165.8240				
C/2018 KJ_3	2019 06 18.156716	16 27 59.09	−41 21 34.1	16.6	G		C57
Geocentric position (km)	−153063.599	+ 7245.3320	−59113.2680				
C/2018 KJ_3	2019 06 18.177549	16 27 55.79	−41 21 36.6	16.9	G		C57
Geocentric position (km)	−151310.223	+ 4542.6790	−58652.7700				

C/2018 N2 (ASASSN)

C/2018 N2	2021 08 08.250782	13 34 24.81	+52 19 57.2	17.53c			T08
C/2018 N2	2021 08 08.256328	13 34 24.99	+52 19 53.6	17.30c			T08
C/2018 N2	2021 08 08.267393	13 34 25.19	+52 19 46.6	17.49c			T08
C/2018 N2	2021 08 09.01676	13 34 40.24	+52 11 42.4	16.8	T	K	I81
C/2018 N2	2021 08 09.01858	13 34 40.28	+52 11 41.5	17.0	T	K	I81
C/2018 N2	2021 08 09.02039	13 34 40.33	+52 11 40.5	17.0	T	K	I81
C/2018 N2	2021 08 12.94881	13 36 04.19	+51 29 57.2	17.7	T	K	970
C/2018 N2	2021 08 12.95300	13 36 04.51	+51 29 51.7	17.6	T	K	970
C/2018 N2	2021 08 16.93830	13 37 37.83	+50 48 33.8	17.5	T	K	970
C/2018 N2	2021 08 16.94248	13 37 37.98	+50 48 31.6	17.6	T	K	970
C/2018 N2	2021 08 23.89476	13 40 38.66	+49 38 55.3	17.3	T	K	970
C/2018 N2	2021 08 23.89889	13 40 38.86	+49 38 52.5	17.6	T	K	970
C/2018 N2	2021 08 27.92778	13 42 32.67	+49 00 04.5	17.4	T	K	I81
C/2018 N2	2021 08 27.92958	13 42 32.72	+49 00 03.3	17.5	T	K	I81
C/2018 N2	2021 08 27.93138	13 42 32.77	+49 00 02.1	17.6	T	K	I81
C/2018 N2	2021 08 29.43875	13 43 16.94	+48 45 50.1	17.4	T		Q11
C/2018 N2	2021 08 29.44796	13 43 17.20	+48 45 44.9				Q11
C/2018 N2	2021 08 29.45573	13 43 17.43	+48 45 40.5				Q11
C/2018 N2	2021 08 31.91417	13 44 31.18	+48 22 51.2	17.7	T	K	I81
C/2018 N2	2021 08 31.91596	13 44 31.22	+48 22 50.3	17.7	T	K	I81
C/2018 N2	2021 08 31.91777	13 44 31.28	+48 22 49.3	17.8	T	K	I81
C/2018 N2	2021 09 08.80754	13 48 40.60	+47 12 49.2	17.8	T	K	C23
C/2018 N2	2021 09 08.81332	13 48 40.92	+47 12 41.7	17.7	T	K	C23
C/2018 N2	2021 09 08.81909	13 48 41.06	+47 12 40.9	18.1	T	K	C23

C/2018 U1 (Lemmon)

C/2018 U1	2021 06 05.64483	17 33 47.48	−02 08 41.1				01Q62
C/2018 U1	2021 06 05.64660	17 33 47.38	−02 08 41.6	14.9	T		01Q62
C/2018 U1	2021 07 17.57318	16 47 46.26	−07 44 18.9	15.1	T		D95
C/2018 U1	2021 07 17.57654	16 47 46.06	−07 44 20.6				D95
C/2018 U1	2021 07 17.57979	16 47 45.89	−07 44 22.4				D95
C/2018 U1	2021 08 06.314843	16 32 32.03	−10 39 38.4	15.94c			T08
C/2018 U1	2021 08 06.318554	16 32 31.89	−10 39 40.4	15.87c			T08
C/2018 U1	2021 08 06.324072	16 32 31.68	−10 39 43.3	15.93c			T08
C/2018 U1	2021 08 06.335177	16 32 31.26	−10 39 49.0	15.97c			T08
C/2018 U1	2021 08 06.52140	16 32 24.41	−10 41 28.5				Q23
C/2018 U1	2021 08 06.52620	16 32 24.23	−10 41 30.9				Q23
C/2018 U1	2021 08 06.53197	16 32 23.99	−10 41 34.2	14.8	T		Q23
C/2018 U1	2021 08 08.273826	16 31 21.506	−10 56 53.14	17.80w			F51
C/2018 U1	2021 08 08.284876	16 31 21.114	−10 56 58.87	17.77w			F51
C/2018 U1	2021 08 08.295402	16 31 20.80	−10 57 04.0	16.34o			T05
C/2018 U1	2021 08 08.295895	16 31 20.717	−10 57 04.75	17.75w			F51
C/2018 U1	2021 08 08.300530	16 31 20.61	−10 57 06.7	16.36o			T05
C/2018 U1	2021 08 08.306931	16 31 20.327	−10 57 10.52	17.69w			F51
C/2018 U1	2021 08 08.306962	16 31 20.38	−10 57 10.0	16.33o			T05
C/2018 U1	2021 08 08.321671	16 31 19.90	−10 57 17.8	15.55o			T05
C/2018 U1	2021 08 09.54979	16 30 37.75	−11 08 04.0	15.6	R		D29
C/2018 U1	2021 08 09.56040	16 30 37.41	−11 08 09.6	15.1	R		D29
C/2018 U1	2021 08 09.57100	16 30 37.03	−11 08 15.1	15.2	R		D29
C/2018 U1	2021 08 10.32014	16 30 12.10	−11 14 46.4	15.3	T		E89
C/2018 U1	2021 08 10.32583	16 30 11.88	−11 14 49.2	15.5	T		E89
C/2018 U1	2021 08 10.33009	16 30 11.74	−11 14 51.3	15.6	T		E89
C/2018 U1	2021 08 11.86333	16 29 22.34	−11 28 18.1	16.2	T	K	C23
C/2018 U1	2021 08 11.86633	16 29 22.24	−11 28 19.3	16.0	T	K	C23
C/2018 U1	2021 08 11.86932	16 29 22.11	−11 28 21.3	16.1	T	K	C23
C/2018 U1	2021 08 13.297620	16 28 38.25	−11 40 46.4	15.71o			T08
C/2018 U1	2021 08 13.301305	16 28 38.14	−11 40 48.4	15.77o			T08
C/2018 U1	2021 08 13.320641	16 28 37.55	−11 40 58.3	15.75o			T08
C/2018 U1	2021 08 13.332155	16 28 37.20	−11 41 04.3	15.65o			T08
C/2018 U1	2021 08 13.41598	16 28 34.72	−11 41 45.2	15.7	T	K	E89
C/2018 U1	2021 08 13.42095	16 28 34.60	−11 41 47.7	15.3	T	K	E89
C/2018 U1	2021 08 14.271642	16 28 09.52	−11 49 13.8	16.18o			T08
C/2018 U1	2021 08 14.275795	16 28 09.39	−11 49 15.8	16.15o			T08
C/2018 U1	2021 08 14.283193	16 28 09.21	−11 49 19.5	15.50o			T08
C/2018 U1	2021 08 14.294269	16 28 08.87	−11 49 25.0	15.54o			T08
C/2018 U1	2021 08 18.83453	16 26 07.01	−12 28 35.5	16.2	N		232
C/2018 U1	2021 08 18.84177	16 26 06.84	−12 28 39.3	16.2	N		232
C/2018 U1	2021 08 18.84539	16 26 06.73	−12 28 41.5	16.3	N		232
C/2018 U1	2021 08 23.40609	16 24 24.23	−13 07 31.0	16.0	T	K	E89
C/2018 U1	2021 08 23.41472	16 24 24.08	−13 07 35.3	16.2	T	K	E89
C/2018 U1	2021 08 23.85573	16 24 15.16	−13 11 22.2	16.2	T	K	C23
C/2018 U1	2021 08 23.85934	16 24 15.13	−13 11 23.3	16.2	T	K	C23
C/2018 U1	2021 08 23.86295	16 24 15.23	−13 11 26.2	16.3	T	K	C23
C/2018 U1	2021 08 25.40771	16 23 45.43	−13 24 25.2	15.7	T	K	E89
C/2018 U1	2021 08 25.41688	16 23 45.27	−13 24 30.0	15.9	T	K	E89
C/2018 U1	2021 08 25.42476	16 23 45.15	−13 24 33.9	16.0	T	K	E89
C/2018 U1	2021 08 25.42929	16 23 45.05	−13 24 36.5	16.6	T	K	E89
C/2018 U1	2021 08 28.264110	16 22 56.56	−13 48 25.7	16.04c			T05
C/2018 U1	2021 08 28.267798	16 22 56.48	−13 48 27.5	16.08c			T05
C/2018 U1	2021 08 28.273370	16 22 56.41	−13 48 29.8	16.03c			T05
C/2018 U1	2021 08 28.285308	16 22 56.14	−13 48 36.4	16.79c			T05
C/2018 U1	2021 08 28.48224	16 22 53.09	−13 50 15.3	15.6	T		349
C/2018 U1	2021 08 28.48831	16 22 52.99	−13 50 18.4				349
C/2018 U1	2021 08 29.39037	16 22 39.24	−13 57 48.1	15.2	T		67Q62
C/2018 U1	2021 08 29.39201	16 22 39.22	−13 57 48.9	16.2	N		67Q62

C/2018 U1	2021 08 29.49068	16 22 37.76	−13 58 39.9		K	367
C/2018 U1	2021 08 29.49271	16 22 37.72	−13 58 41.0		K	367
C/2018 U1	2021 08 29.49392	16 22 37.71	−13 58 41.5	15.5 T	K	367
C/2018 U1	2021 08 30.82483	16 22 18.77	−14 09 46.4	15.3 T	K	C23
C/2018 U1	2021 08 30.83024	16 22 18.73	−14 09 49.4	16.1 T	K	C23
C/2018 U1	2021 09 01.261451	16 22 00.43	−14 21 37.5	15.98c		T05
C/2018 U1	2021 09 01.266972	16 22 00.33	−14 21 40.2	16.11c		T05
C/2018 U1	2021 09 01.283075	16 22 00.17	−14 21 47.6	16.04c		T05
C/2018 U1	2021 09 04.254852	16 21 27.67	−14 46 14.0	16.53c		T05
C/2018 U1	2021 09 04.258548	16 21 27.70	−14 46 15.3	15.96c		T05
C/2018 U1	2021 09 04.264062	16 21 27.61	−14 46 18.5	16.09c		T05
C/2018 U1	2021 09 04.274615	16 21 27.48	−14 46 24.0	16.69c		T05
C/2018 U1	2021 09 06.82516	16 21 05.78	−15 07 12.3	16.2 T	K	C23
C/2018 U1	2021 09 06.82877	16 21 05.64	−15 07 13.6	16.6 T	K	C23
C/2018 U1	2021 09 09.238707	16 20 50.18	−15 26 43.4	16.20c		T05
C/2018 U1	2021 09 09.241907	16 20 50.16	−15 26 44.9	16.18c		T05
C/2018 U1	2021 09 09.247913	16 20 50.12	−15 26 47.7	16.18c		T05
C/2018 U1	2021 09 09.258454	16 20 50.06	−15 26 52.8	16.12c		T05

C/2019 B3 (PANSTARRS)

C/2019 B3	2021 08 13.388953	03 59 54.84	−84 25 23.2	18.7 T		474
C/2019 B3	2021 08 13.393211	03 59 54.68	−84 25 24.9	18.7 T		474
C/2019 B3	2021 08 13.399213	03 59 54.27	−84 25 27.1	18.8 T		474
C/2019 B3	2021 09 04.68284	02 20 54.76	−86 20 47.7	18.2 T	K	E94
C/2019 B3	2021 09 04.69292	02 20 51.38	−86 20 48.1	18.2 T	K	E94
C/2019 B3	2021 09 04.70301	02 20 46.91	−86 20 49.8	18.2 T	K	E94
C/2019 B3	2021 09 04.71311	02 20 40.63	−86 20 52.5	18.1 T	K	E94
C/2019 B3	2021 09 12.61128	01 10 48.62	−86 31 08.3	17.7 T	K	E94
C/2019 B3	2021 09 12.62046	01 10 42.31	−86 31 06.6	17.6 T	K	E94

C/2019 F1 (ATLAS-Africano)

C/2019 F1	2021 08 06.47834	23 11 04.50	−87 43 59.1	16.5 T	K	423
C/2019 F1	2021 08 06.52869	23 10 40.41	−87 44 02.1	16.5 T	K	423
C/2019 F1	2021 08 25.51228	21 02 22.86	−86 37 56.8	15.9 T	K	E94
C/2019 F1	2021 08 25.52105	21 02 21.44	−86 37 53.2	16.0 T	K	E94
C/2019 F1	2021 08 25.52982	21 02 18.63	−86 37 49.2	16.0 T	K	E94
C/2019 F1	2021 08 25.53764	21 02 17.10	−86 37 46.2	15.9 T	K	E94
C/2019 F1	2021 09 07.11391	20 40 49.88	−84 48 43.0	19 R		C51
Geocentric position (km)	+ 1027.3334	− 556.2784	− 6757.5048			
C/2019 F1	2021 09 07.17923	20 40 49.31	−84 48 05.2			C51
Geocentric position (km)	+ 1023.4255	− 537.1085	− 6759.6496			
C/2019 F1	2021 09 07.24469	20 40 47.67	−84 47 24.8			C51
Geocentric position (km)	+ 1039.8370	− 598.5986	− 6751.9808			
C/2019 F1	2021 09 07.44066	20 40 43.55	−84 45 26.5			C51
Geocentric position (km)	+ 1028.0613	− 541.1923	− 6758.6294			
C/2019 F1	2021 09 07.50611	20 40 42.09	−84 44 45.9			C51
Geocentric position (km)	+ 1044.7493	− 602.6157	− 6750.8761			
C/2019 F1	2021 09 07.63676	20 40 38.87	−84 43 25.7	19 R		C51
Geocentric position (km)	+ 1036.7978	− 564.3511	− 6755.4100			
C/2019 F1	2021 09 07.76753	20 40 37.41	−84 42 06.4			C51
Geocentric position (km)	+ 1049.7187	− 606.6070	− 6749.7578			
C/2019 F1	2021 09 07.83286	20 40 36.24	−84 41 26.2			C51
Geocentric position (km)	+ 1045.7081	− 587.5383	− 6752.0666			
C/2019 F1	2021 09 07.89818	20 40 34.49	−84 40 46.7			C51
Geocentric position (km)	+ 1041.6511	− 568.4847	− 6754.3247			
C/2019 F1	2021 09 07.96351	20 40 34.41	−84 40 06.3			C51
Geocentric position (km)	+ 1037.5460	− 549.4393	− 6756.5344			
C/2019 F1	2021 09 08.09428	20 40 32.84	−84 38 46.0			C51
Geocentric position (km)	+ 1050.7247	− 591.7528	− 6750.9305			
C/2019 F1	2021 09 08.22493	20 40 31.14	−84 37 26.3			C51
Geocentric position (km)	+ 1042.4244	− 553.7076	− 6755.4435			
C/2019 F1	2021 09 10.53495	20 40 21.08	−84 13 13.2	15.4 T		Q38
C/2019 F1	2021 09 10.53731	20 40 21.22	−84 13 11.7	15.4 T		Q38
C/2019 F1	2021 09 10.53968	20 40 21.20	−84 13 10.2	14.5 T		Q38
C/2019 F1	2021 09 13.15066	20 40 55.27	−83 44 36.8	15.1 T		X03
C/2019 F1	2021 09 13.15442	20 40 55.33	−83 44 34.4	15.2 T	K	X03
C/2019 F1	2021 09 13.16238	20 40 55.33	−83 44 29.1	15.2 T		X03
C/2019 F1	2021 09 13.16700	20 40 55.47	−83 44 25.8	15.2 T	K	X03
C/2019 F1	2021 09 13.17498	20 40 55.60	−83 44 20.7	15.2 T		X03
C/2019 F1	2021 09 13.19343	20 40 55.92	−83 44 07.8	15.1 T		X03
C/2019 F1	2021 09 15.32984	20 41 53.61	−83 19 51.5	17.3 T		W88
C/2019 F1	2021 09 15.34411	20 41 53.85	−83 19 41.5	17.7 T		W88
C/2019 F1	2021 09 15.35813	20 41 54.67	−83 19 32.1	17.5 T		W88

C/2019 J2 (Palomar)

C/2019 J2	2019 07 18.865036	14 04 02.69	+71 51 29.8	15.3 G		C57
Geocentric position (km)	+130302.299	+30582.1130	+47923.7000			
C/2019 J2	2019 07 18.885869	14 04 00.25	+71 50 02.1	15.2 G		C57
Geocentric position (km)	+131437.094	+33909.9170	+48566.0880			
C/2019 J2	2019 07 18.906703	14 03 57.45	+71 48 38.3	15.4 G		C57
Geocentric position (km)	+132515.202	+37223.0740	+49187.5100			
C/2019 J2	2019 07 18.927536	14 03 55.74	+71 47 16.2	15.4 G		C57
Geocentric position (km)	+133538.470	+40520.8070	+49788.5550			
C/2019 J2	2019 07 18.948369	14 03 52.96	+71 45 48.3	15.4 G		C57
Geocentric position (km)	+134508.677	+43802.4200	+50369.7990			
C/2019 J2	2019 07 18.969203	14 03 49.94	+71 44 18.1	15.5 G		C57
Geocentric position (km)	+135427.538	+47067.2940	+50931.7980			
C/2019 J2	2019 07 18.990036	14 03 46.67	+71 42 50.5	15.4 G		C57
Geocentric position (km)	+136296.701	+50314.8790	+51475.0910			
C/2019 J2	2019 07 19.010869	14 03 44.30	+71 41 25.9	15.4 G		C57
Geocentric position (km)	+137117.751	+53544.6890	+52000.1990			
C/2019 J2	2019 07 19.031703	14 03 41.28	+71 39 56.9	15.5 G		C57
Geocentric position (km)	+137892.216	+56756.2940	+52507.6270			
C/2019 J2	2019 07 19.052536	14 03 38.84	+71 38 31.2	15.4 G		C57
Geocentric position (km)	+138621.562	+59949.3160	+52997.8630			
C/2019 J2	2019 07 19.073369	14 03 36.04	+71 37 03.8	15.4 G		C57
Geocentric position (km)	+139307.202	+63123.4270	+53471.3780			
C/2019 J2	2019 07 19.094203	14 03 33.87	+71 35 39.6	15.5 G		C57
Geocentric position (km)	+139950.490	+66278.3400	+53928.6290			
C/2019 J2	2019 07 19.115036	14 03 31.48	+71 34 14.3	15.4 G		C57
Geocentric position (km)	+140552.734	+69413.8070	+54370.0560			
C/2019 J2	2019 07 19.135869	14 03 28.77	+71 32 42.7	15.4 G		C57
Geocentric position (km)	+141115.186	+72529.6200	+54796.0850			
C/2019 J2	2019 07 19.156703	14 03 27.73	+71 31 19.0	15.5 G		C57
Geocentric position (km)	+141639.055	+75625.5990	+55207.1260			

C/2019 J2 2019 07 19.260869 14 03 13.63 +71 24 11.1 15.3 G C57
Geocentric position (km) +143718.751 +90803.6880 +57050.9570
C/2019 J2 2019 07 19.281703 14 03 10.66 +71 22 44.6 15.3 G C57
Geocentric position (km) +144034.005 +93778.4130 +57379.9560
C/2019 J2 2019 07 19.302536 14 03 09.32 +71 21 22.0 15.3 G C57
Geocentric position (km) +144317.933 +96732.7530 +57696.4790
C/2019 J2 2019 07 19.323369 14 03 06.49 +71 19 54.9 15.3 G C57
Geocentric position (km) +144571.423 +99666.7050 +58000.8390
C/2019 J2 2019 07 19.344203 14 03 03.65 +71 18 25.1 15.5 G C57
Geocentric position (km) +144795.330 +102580.279 +58293.3360
C/2019 J2 2019 07 20.302536 14 01 17.88 +70 13 06.5 15.3 G C57
Geocentric position (km) +133190.771 +216024.067 +62577.5460
C/2019 J2 2019 07 20.385869 14 01 07.84 +70 07 22.2 15.4 G C57
Geocentric position (km) +130818.876 +224170.270 +62349.0750
C/2019 J2 2019 07 20.406702 14 01 05.99 +70 06 02.1 15.5 G C57
Geocentric position (km) +130203.014 +226168.497 +62281.2140
C/2019 J2 2019 07 20.427535 14 01 05.14 +70 04 38.6 15.4 G C57
Geocentric position (km) +129578.354 +228151.591 +62209.1980
C/2019 J2 2019 07 20.448369 14 01 01.93 +70 03 12.6 15.2 G C57
Geocentric position (km) +128945.067 +230119.649 +62133.0930
C/2019 J2 2019 07 20.531702 14 00 53.63 +69 57 31.5 15.5 G C57
Geocentric position (km) +126328.952 +237843.418 +61789.0900
C/2019 J2 2019 07 20.698369 14 00 36.73 +69 46 15.8 15.2 G C57
Geocentric position (km) +120730.027 +252597.270 +60923.6150
C/2019 J2 2019 07 20.719202 14 00 36.67 +69 44 41.1 15.0 G C57
Geocentric position (km) +119998.517 +254378.172 +60799.8830
C/2019 J2 2019 07 20.885869 14 00 18.22 +69 33 32.5 15.4 G C57
Geocentric position (km) +113917.898 +268134.882 +59696.4950
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Geocentric position (km) +112338.839 +271440.944 +59390.4530
C/2019 J2 2019 07 21.135869 13 59 54.90 +69 16 45.5 15.5 G C57
Geocentric position (km) +104129.511 +287200.841 +57696.4870
C/2019 J2 2019 07 21.156702 13 59 53.02 +69 15 19.6 15.4 G C57
Geocentric position (km) +103281.972 +288707.831 +57512.9690
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Geocentric position (km) +102429.939 +290202.536 +57327.0230
C/2019 J2 2019 07 21.198369 13 59 48.65 +69 12 29.6 15.5 G C57
Geocentric position (km) +101573.492 +291685.019 +57138.6840
C/2019 J2 2019 07 21.260868 13 59 42.89 +69 08 17.5 15.3 G C57
Geocentric position (km) +98978.4470 +296059.750 +56559.6210
C/2019 J2 2019 07 21.281702 13 59 40.50 +69 06 50.3 15.2 G C57
Geocentric position (km) +98105.1190 +297493.955 +56362.0230
C/2019 J2 2019 07 21.302535 13 59 39.17 +69 05 33.2 15.3 G C57
Geocentric position (km) +97227.7590 +298916.239 +56162.1880
C/2019 J2 2019 07 21.323368 13 59 38.11 +69 04 08.7 15.5 G C57
Geocentric position (km) +96346.4380 +300326.661 +55960.1460
C/2019 J2 2019 07 21.406702 13 59 30.02 +68 58 30.0 15.5 G C57
Geocentric position (km) +92782.9550 +305850.862 +55130.4810
C/2019 J2 2019 07 21.427535 13 59 28.50 +68 57 10.7 15.5 G C57
Geocentric position (km) +91882.8760 +307202.819 +54917.8320
C/2019 J2 2019 07 21.594202 13 59 13.38 +68 45 58.0 15.4 G C57
Geocentric position (km) +84559.6740 +317607.861 +53145.4420
C/2019 J2 2019 07 21.635868 13 59 09.56 +68 43 09.4 15.4 G C57
Geocentric position (km) +82697.0470 +320096.932 +52683.4890
C/2019 J2 2019 07 21.656702 13 59 07.52 +68 41 43.4 15.4 G C57
Geocentric position (km) +81761.2780 +321324.910 +52449.8160
C/2019 J2 2019 07 21.677535 13 59 04.60 +68 40 15.4 15.4 G C57
Geocentric position (km) +80822.6100 +322541.912 +52214.3760
C/2019 J2 2019 07 21.698368 13 59 04.01 +68 38 56.2 15.5 G C57
Geocentric position (km) +79881.0990 +323747.986 +51977.1920
C/2019 J2 2019 07 21.719202 13 59 02.35 +68 37 29.7 15.4 G C57
Geocentric position (km) +78936.7980 +324943.176 +51738.2850
C/2019 J2 2019 07 21.760868 13 58 59.25 +68 34 46.6 15.5 G C57
Geocentric position (km) +77040.0340 +327301.092 +51255.3910
C/2019 J2 2019 07 21.948368 13 58 43.09 +68 22 11.3 15.4 G C57
Geocentric position (km) +68379.8030 +337384.681 +49002.6720
C/2019 J2 2019 07 22.260856 13 58 16.22 +68 01 14.3 15.2 G C57
Geocentric position (km) +53563.2140 +352337.199 +44987.9520
C/2019 J2 2019 07 22.281701 13 58 14.72 +67 59 43.9 15.3 G C57
Geocentric position (km) +52561.1960 +353254.142 +44709.8980
C/2019 J2 2019 07 22.302535 13 58 12.87 +67 58 24.0 15.5 G C57
Geocentric position (km) +51557.6150 +354161.295 +44430.6350
C/2019 J2 2019 07 22.323368 13 58 11.77 +67 57 05.6 15.4 G C57
Geocentric position (km) +50552.5060 +355058.689 +44150.1760
C/2019 J2 2019 07 22.344201 13 58 10.05 +67 55 40.7 15.3 G C57
Geocentric position (km) +49545.9050 +355946.358 +43868.5380
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C/2019 J2 2019 07 25.135867 13 55 00.78 +64 50 50.5 15.9 G C57
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C/2019 J2 2019 07 25.156700 13 54 59.71 +64 49 29.7 15.8 G C57
Geocentric position (km) −88703.9240 +395813.064 − 355.1700
C/2019 J2 2019 07 25.177533 13 54 57.58 +64 48 01.4 15.7 G C57
Geocentric position (km) −89676.8240 +395560.649 − 701.8510

C/2019 J2	2019 07 25.198367	13 54 56.97	+64 46 42.5	15.4 G	C57		
Geocentric position (km)	−90648.0640	+395300.549	− 1048.4800				
C/2019 J2	2019 07 25.219200	13 54 55.64	+64 45 19.0	15.7 G	C57		
Geocentric position (km)	−91617.6230	+395032.765	− 1395.0480				
C/2019 J2	2019 07 25.240033	13 54 54.59	+64 43 56.3	15.5 G	C57		
Geocentric position (km)	−92585.4810	+394757.299	− 1741.5500				
C/2019 J2	2019 07 25.260867	13 54 54.06	+64 42 36.5	15.5 G	C57		
Geocentric position (km)	−93551.6190	+394474.156	− 2087.9780				
C/2019 J2	2019 07 25.281700	13 54 52.17	+64 41 12.3	15.7 G	C57		
Geocentric position (km)	−94516.0160	+394183.336	− 2434.3270				
C/2019 J2	2019 07 25.302533	13 54 51.22	+64 39 50.9	15.7 G	C57		
Geocentric position (km)	−95478.6530	+393884.842	− 2780.5880				
C/2019 J2	2019 07 25.323367	13 54 50.70	+64 38 33.8	15.7 G	C57		
Geocentric position (km)	−96439.5100	+393578.676	− 3126.7550				
C/2019 J2	2019 07 25.344200	13 54 48.31	+64 37 09.1	15.7 G	C57		
Geocentric position (km)	−97398.5650	+393264.841	− 3472.8220				
C/2019 J2	2019 07 25.365033	13 54 47.58	+64 35 46.5	15.5 G	C57		
Geocentric position (km)	−98355.8000	+392943.337	− 3818.7810				
C/2019 J2	2019 07 25.385867	13 54 45.84	+64 34 21.4	15.7 G	C57		
Geocentric position (km)	−99311.1940	+392614.167	− 4164.6260				
C/2019 J2	2019 07 25.406700	13 54 45.88	+64 33 02.6	15.7 G	C57		
Geocentric position (km)	−100264.727	+392277.333	− 4510.3490				
C/2019 J2	2019 07 25.427533	13 54 44.35	+64 31 46.3	15.8 G	C57		
Geocentric position (km)	−101216.378	+391932.834	− 4855.9450				
C/2019 J2	2019 07 25.448367	13 54 44.25	+64 30 27.6	15.8 G	C57		
Geocentric position (km)	−102166.127	+391580.674	− 5201.4050				
C/2019 J2	2019 07 25.469200	13 54 42.37	+64 29 00.4	15.8 G	C57		
Geocentric position (km)	−103113.954	+391220.853	− 5546.7240				
C/2019 J2	2019 07 25.490033	13 54 41.01	+64 27 38.5	15.8 G	C57		
Geocentric position (km)	−104059.838	+390853.372	− 5891.8940				
C/2019 J2	2019 07 25.510867	13 54 40.17	+64 26 15.2	15.7 G	C57		
Geocentric position (km)	−105003.758	+390478.232	− 6236.9080				
C/2019 J2	2019 07 25.531700	13 54 37.85	+64 24 49.9	15.7 G	C57		
Geocentric position (km)	−105945.693	+390095.433	− 6581.7600				
C/2019 J2	2019 07 25.552533	13 54 37.62	+64 23 28.6	15.7 G	C57		
Geocentric position (km)	−106885.624	+389704.977	− 6926.4430				
C/2019 J2	2019 07 25.573367	13 54 36.14	+64 22 07.6	15.8 G	C57		
Geocentric position (km)	−107823.529	+389306.864	− 7270.9490				
C/2019 J2	2019 07 25.594200	13 54 36.25	+64 20 53.6	15.4 G	C57		
Geocentric position (km)	−108759.386	+388901.094	− 7615.2720				
C/2019 J2	2019 07 25.615033	13 54 34.68	+64 19 22.5	15.8 G	C57		
Geocentric position (km)	−109693.176	+388487.667	− 7959.4040				
C/2019 J2	2019 07 25.635867	13 54 32.57	+64 18 06.4	15.5 G	C57		
Geocentric position (km)	−110624.877	+388066.584	− 8303.3390				
C/2019 J2	2019 07 25.656700	13 54 31.99	+64 16 40.3	15.5 G	C57		
Geocentric position (km)	−111554.468	+387637.845	− 8647.0700				
C/2019 J2	2019 07 25.677533	13 54 31.20	+64 15 22.5	15.6 G	C57		
Geocentric position (km)	−112481.927	+387201.449	− 8990.5900				
C/2019 J2	2019 07 25.698367	13 54 30.73	+64 14 03.1	15.6 G	C57		
Geocentric position (km)	−113407.233	+386757.396	− 9333.8910				
C/2019 J2	2019 07 25.719200	13 54 28.44	+64 12 30.9	15.6 G	C57		
Geocentric position (km)	−114330.365	+386305.685	− 9676.9660				
C/2019 J2	2019 07 25.740033	13 54 28.19	+64 11 19.4	15.9 G	C57		
Geocentric position (km)	−115251.302	+385846.317	−10019.8090				
C/2019 J2	2019 07 25.802533	13 54 24.21	+64 07 07.6	16.2 G	C57		
Geocentric position (km)	−118000.719	+384422.256	−11046.8720				
C/2019 J2	2019 07 25.885867	13 54 20.02	+64 01 43.6	15.5 G	C57		
Geocentric position (km)	−121634.542	+382416.241	−12412.6000				
C/2019 J2	2019 07 25.906700	13 54 19.41	+64 00 21.1	15.5 G	C57		
Geocentric position (km)	−122537.125	+381895.574	−12753.3240				
C/2019 J2	2019 07 25.927533	13 54 17.65	+63 59 02.2	15.6 G	C57		
Geocentric position (km)	−123437.312	+381367.237	−13093.7520				
C/2019 J2	2019 07 25.948366	13 54 16.24	+63 57 37.0	15.7 G	C57		
Geocentric position (km)	−124335.083	+380831.230	−13433.8750				
C/2019 J2	2019 07 25.969200	13 54 15.81	+63 56 12.7	15.8 G	C57		
Geocentric position (km)	−125230.415	+380287.550	−13773.6860				
C/2019 J2	2019 07 25.990033	13 54 14.35	+63 54 55.3	15.6 G	C57		
Geocentric position (km)	−126123.283	+379736.195	−14113.1770				
C/2019 J2	2019 07 26.052533	13 54 10.84	+63 50 44.7	15.9 G	C57		
Geocentric position (km)	−128786.884	+378036.058	−15129.6610				
C/2019 J2	2019 07 26.073366	13 54 10.11	+63 49 28.1	16.0 G	C57		
Geocentric position (km)	−129669.672	+377453.980	−15467.8000				
C/2019 J2	2019 07 26.094200	13 54 09.51	+63 48 07.1	15.9 G	C57		
Geocentric position (km)	−130549.882	+376864.214	−15805.5830				
C/2019 J2	2019 07 26.115033	13 54 08.30	+63 46 49.0	16.0 G	C57		
Geocentric position (km)	−131427.489	+376266.758	−16143.0010				
C/2019 J2	2019 07 26.135866	13 54 07.46	+63 45 30.6	15.8 G	C57		
Geocentric position (km)	−132302.470	+375661.608	−16480.0470				

C/2019 K7 (Smith)

C/2019 K7	2021 02 06.550380	19 10 33.29	+27 28 51.2	17.13T		I41
C/2019 K7	2021 02 06.553310	19 10 33.37	+27 28 53.1	17.08T		I41
C/2019 K7	2021 02 06.556250	19 10 33.43	+27 28 55.3	17.14T		I41
C/2019 K7	2021 02 06.559190	19 10 33.52	+27 28 57.1	17.16T		I41
C/2019 K7	2021 02 06.562130	19 10 33.60	+27 28 59.2	17.19T		I41
C/2019 K7	2021 02 10.550080	19 12 18.99	+28 14 34.6	17.24T		I41
C/2019 K7	2021 02 10.553160	19 12 19.04	+28 14 36.6	17.32T		I41
C/2019 K7	2021 02 10.556230	19 12 19.12	+28 14 38.6	17.31T		I41
C/2019 K7	2021 02 10.559291	19 12 19.20	+28 14 40.7	17.30T		I41
C/2019 K7	2021 02 10.562340	19 12 19.28	+28 14 42.9	17.22T		I41
C/2019 K7	2021 05 25.96509	18 37 22.36	+54 02 50.6	17.0 T	K	204
C/2019 K7	2021 05 25.97640	18 37 21.30	+54 02 58.1		K	204
C/2019 K7	2021 07 09.95574	17 14 53.06	+57 48 57.5		K	107
C/2019 K7	2021 07 09.98516	17 14 50.00	+57 48 54.5		K	107
C/2019 K7	2021 07 10.01456	17 14 46.63	+57 48 51.6		K	107
C/2019 K7	2021 07 11.93464	17 11 25.46	+57 45 29.0	16.8 T	K	204
C/2019 K7	2021 07 12.01092	17 11 17.49	+57 45 20.1		K	204
C/2019 K7	2021 08 03.92189	16 38 16.59	+56 07 39.7	17.3 T	K	970
C/2019 K7	2021 08 03.93424	16 38 15.71	+56 07 35.4	17.2 T	K	970
C/2019 K7	2021 08 04.97850	16 37 06.05	+56 01 15.6	17.2 T	K	970
C/2019 K7	2021 08 04.98270	16 37 05.76	+56 01 14.1	17.2 T	K	970
C/2019 K7	2021 08 06.331445	16 35 38.71	+55 52 54.5	16.88o		T05
C/2019 K7	2021 08 06.336940	16 35 38.21	+55 52 52.8	17.43o		T05
C/2019 K7	2021 08 06.340622	16 35 38.06	+55 52 50.8	16.86o		T05
C/2019 K7	2021 08 06.351679	16 35 37.39	+55 52 46.9	16.85o		T05

C/2019 K7	2021 08 06.86979	16 35 04.63	+55 49 31.5	17.0	T		A77
C/2019 K7	2021 08 06.87475	16 35 04.32	+55 49 29.7	17.1	T		A77
C/2019 K7	2021 08 06.87889	16 35 04.09	+55 49 28.2	16.8	T		A77
C/2019 K7	2021 08 06.905064	16 35 02.51	+55 49 17.9	17.4	T		G09
C/2019 K7	2021 08 06.922829	16 35 01.36	+55 49 11.6	17.5	T		G09
C/2019 K7	2021 08 06.937631	16 35 00.40	+55 49 06.6	17.7	T		G09
C/2019 K7	2021 08 07.93612	16 33 58.97	+55 42 45.7	17.4	N	K	A77
C/2019 K7	2021 08 07.94230	16 33 58.49	+55 42 43.4	17.3	N	K	A77
C/2019 K7	2021 08 07.94934	16 33 58.14	+55 42 41.0	17.4	N	K	A77
C/2019 K7	2021 08 07.96797	16 33 56.94	+55 42 34.1	17.2	T		02G40
C/2019 K7	2021 08 07.97625	16 33 56.47	+55 42 30.5	17.5	T		02G40
C/2019 K7	2021 08 08.327165	16 33 35.30	+55 40 15.9	17.89c			T08
C/2019 K7	2021 08 08.330409	16 33 35.13	+55 40 14.4	17.34c			T08
C/2019 K7	2021 08 08.335953	16 33 34.75	+55 40 12.6	17.91c			T08
C/2019 K7	2021 08 08.92916	16 32 59.40	+55 36 22.4	17.5	T	K	L47
C/2019 K7	2021 08 08.95075	16 32 58.19	+55 36 14.2	18.0	T	K	L47
C/2019 K7	2021 08 08.98501	16 32 56.23	+55 36 00.1	14.1	T	K	I81
C/2019 K7	2021 08 08.98707	16 32 56.10	+55 35 59.1	14.0	T	K	I81
C/2019 K7	2021 08 08.98767	16 32 56.02	+55 35 59.3	16.7	T	K	I81
C/2019 K7	2021 08 08.98840	16 32 55.98	+55 35 58.9	16.7	T	K	I81
C/2019 K7	2021 08 08.98913	16 32 55.91	+55 35 58.7	16.7	T	K	I81
C/2019 K7	2021 08 08.99120	16 32 55.82	+55 35 57.8	16.8	T	K	I81
C/2019 K7	2021 08 10.322320	16 31 38.77	+55 27 17.2	17.28o			T05
C/2019 K7	2021 08 10.325548	16 31 38.56	+55 27 16.1	17.54o			T05
C/2019 K7	2021 08 10.331060	16 31 38.26	+55 27 14.1	17.48o			T05
C/2019 K7	2021 08 10.91223	16 31 05.65	+55 23 23.1	17.1	T	K	204
C/2019 K7	2021 08 10.91767	16 31 05.28	+55 23 21.1	17.4	T	K	970
C/2019 K7	2021 08 10.92976	16 31 04.59	+55 23 16.0	17.4	T	K	970
C/2019 K7	2021 08 10.97769	16 31 01.96	+55 22 56.7			K	204
C/2019 K7	2021 08 11.88909	16 30 11.97	+55 16 53.3	17.1	T		C23
C/2019 K7	2021 08 11.89342	16 30 11.67	+55 16 51.5	17.3	T		C23
C/2019 K7	2021 08 11.89775	16 30 11.49	+55 16 49.8	17.1	T		C23
C/2019 K7	2021 08 12.02051	16 30 04.83	+55 16 00.1	17.2	T	K	I81
C/2019 K7	2021 08 12.02265	16 30 04.74	+55 15 59.0	17.2	T	K	I81
C/2019 K7	2021 08 12.02478	16 30 04.63	+55 15 58.2	17.3	T	K	I81
C/2019 K7	2021 08 12.92388	16 29 16.85	+55 09 57.0	18.3	T	K	L47
C/2019 K7	2021 08 12.93829	16 29 16.02	+55 09 49.0	17.8	T	K	L47
C/2019 K7	2021 08 12.95910	16 29 14.96	+55 09 41.7	17.2	T	K	970
C/2019 K7	2021 08 12.96244	16 29 14.80	+55 09 40.3	17.2	T	K	970
C/2019 K7	2021 08 13.90010	16 28 26.70	+55 03 18.7	17.4	T	K	L47
C/2019 K7	2021 08 13.91714	16 28 25.58	+55 03 12.3	17.5	T	K	L47
C/2019 K7	2021 08 14.279507	16 28 07.48	+55 00 44.6	17.00o			T05
C/2019 K7	2021 08 14.283178	16 28 07.29	+55 00 43.1	16.98o			T05
C/2019 K7	2021 08 14.288665	16 28 06.94	+55 00 40.9	17.58o			T05
C/2019 K7	2021 08 14.299252	16 28 06.42	+55 00 36.6	17.57o			T05
C/2019 K7	2021 08 14.83541	16 27 39.78	+54 56 55.7	17.7	T	K	L47
C/2019 K7	2021 08 14.84598	16 27 39.24	+54 56 52.7	17.5	T	K	L47
C/2019 K7	2021 08 15.266096	16 27 18.696	+54 53 59.63	18.44w			F51
C/2019 K7	2021 08 15.294353	16 27 17.318	+54 53 47.85	17.79w			F51
C/2019 K7	2021 08 15.308515	16 27 16.624	+54 53 41.98	17.89w			F51
C/2019 K7	2021 08 16.02821	16 26 42.22	+54 48 42.8	17.4	T	K	I81
C/2019 K7	2021 08 16.03008	16 26 42.14	+54 48 42.1	17.3	T	K	I81
C/2019 K7	2021 08 16.03196	16 26 42.05	+54 48 41.4	17.3	T	K	I81
C/2019 K7	2021 08 16.309180	16 26 28.99	+54 46 47.8	17.52o			T08
C/2019 K7	2021 08 16.312414	16 26 28.84	+54 46 46.4	17.59o			T08
C/2019 K7	2021 08 16.323298	16 26 28.35	+54 46 41.8	17.26o			T08
C/2019 K7	2021 08 16.329795	16 26 28.02	+54 46 38.9	17.62o			T08
C/2019 K7	2021 08 16.89900	16 26 01.68	+54 42 41.3	17.1	T		C23
C/2019 K7	2021 08 16.90478	16 26 01.32	+54 42 38.6	17.1	T		C23
C/2019 K7	2021 08 16.91199	16 26 01.00	+54 42 36.2	17.3	T		C23
C/2019 K7	2021 08 16.94770	16 25 59.37	+54 42 21.1	17.3	T	K	970
C/2019 K7	2021 08 16.95199	16 25 59.21	+54 42 19.3	17.4	T	K	970
C/2019 K7	2021 08 18.302433	16 24 58.86	+54 32 55.5	17.24o			T05
C/2019 K7	2021 08 18.309784	16 24 58.50	+54 32 52.3	17.61o			T05
C/2019 K7	2021 08 18.319922	16 24 58.09	+54 32 47.6	16.92o			T05
C/2019 K7	2021 08 18.320838	16 24 58.07	+54 32 47.3	17.10o			T05
C/2019 K7	2021 08 18.323175	16 24 57.91	+54 32 46.9	17.59o			T05
C/2019 K7	2021 08 18.328704	16 24 57.62	+54 32 44.8	17.56o			T05
C/2019 K7	2021 08 18.94406	16 24 30.85	+54 28 25.0	17.3	T	K	L47
C/2019 K7	2021 08 18.95083	16 24 30.78	+54 28 21.8	18.4	T	K	L47
C/2019 K7	2021 08 19.82646	16 23 54.15	+54 22 12.6	17.7	T	K	L47
C/2019 K7	2021 08 19.85285	16 23 52.98	+54 22 01.2	18.1	T	K	L47
C/2019 K7	2021 08 20.81891	16 23 13.95	+54 15 13.8	18.1	T	K	L47
C/2019 K7	2021 08 20.85011	16 23 12.74	+54 14 59.8	16.7	T	K	204
C/2019 K7	2021 08 20.85238	16 23 12.41	+54 14 59.0	17.9	T	K	L47
C/2019 K7	2021 08 20.86543	16 23 11.93	+54 14 52.8	17.3	T		A77
C/2019 K7	2021 08 20.87030	16 23 11.78	+54 14 51.4	16.8	T		A77
C/2019 K7	2021 08 20.87597	16 23 11.18	+54 14 49.2	17.1	T		A77
C/2019 K7	2021 08 20.95704	16 23 08.45	+54 14 13.9			K	204
C/2019 K7	2021 08 22.255946	16 22 18.36	+54 05 03.8	17.59o			T05
C/2019 K7	2021 08 22.265134	16 22 18.00	+54 04 59.9	17.64o			T05
C/2019 K7	2021 08 22.275217	16 22 17.62	+54 04 55.3	17.10o			T05
C/2019 K7	2021 08 23.90373	16 21 18.45	+53 53 20.3	17.3	T	K	970
C/2019 K7	2021 08 23.90742	16 21 18.30	+53 53 18.7	17.5	T	K	970
C/2019 K7	2021 08 23.92273	16 21 17.85	+53 53 11.7	17.2	T	K	C23
C/2019 K7	2021 08 23.92706	16 21 17.66	+53 53 09.9	17.2	T	K	C23
C/2019 K7	2021 08 23.92995	16 21 17.61	+53 53 08.6	17.2	T	K	C23
C/2019 K7	2021 08 24.00676	16 21 14.94	+53 52 36.2	17.0	T	K	I81
C/2019 K7	2021 08 24.00913	16 21 14.85	+53 52 35.0	17.4	T	K	I81
C/2019 K7	2021 08 24.01147	16 21 14.73	+53 52 33.6	17.0	T	K	I81
C/2019 K7	2021 08 26.273053	16 19 59.51	+53 36 28.2	17.04o			T05
C/2019 K7	2021 08 26.276717	16 19 59.33	+53 36 26.8	17.12o			T05
C/2019 K7	2021 08 26.281821	16 19 59.21	+53 36 24.5	16.93o			T05
C/2019 K7	2021 08 26.291969	16 19 58.92	+53 36 20.1	17.21o			T05
C/2019 K7	2021 08 27.91963	16 19 09.25	+53 24 43.2	17.2	T	K	I81
C/2019 K7	2021 08 27.92142	16 19 09.20	+53 24 42.4	17.3	T	K	I81
C/2019 K7	2021 08 27.92321	16 19 09.14	+53 24 41.7	17.5	T	K	I81
C/2019 K7	2021 08 28.265903	16 18 59.23	+53 22 16.1	17.69o			T08
C/2019 K7	2021 08 28.271928	16 18 59.05	+53 22 13.5	17.62o			T08
C/2019 K7	2021 08 28.283517	16 18 58.80	+53 22 07.9	18.66o			T08
C/2019 K7	2021 08 28.53062	16 18 51.65	+53 20 22.4	16.4	T		349
C/2019 K7	2021 08 28.54419	16 18 51.26	+53 20 16.4				349
C/2019 K7	2021 08 29.49970	16 18 24.70	+53 13 28.7	16.9	T		Q11
C/2019 K7	2021 08 29.50749	16 18 24.47	+53 13 25.3				Q11
C/2019 K7	2021 08 29.51527	16 18 24.25	+53 13 21.8				Q11
C/2019 K7	2021 08 30.84683	16 17 49.51	+53 03 53.5	17.2	T		C23

C/2019 K7	2021 08 30.85405	16 17 49.29	+53 03 50.8	17.3	T	C23
C/2019 K7	2021 08 30.85982	16 17 49.13	+53 03 48.4	17.1	T	C23
C/2019 K7	2021 08 30.90940	16 17 47.94	+53 03 27.3	17.5	T	K Z10
C/2019 K7	2021 08 30.91627	16 17 47.75	+53 03 24.2	17.6	T	K Z10
C/2019 K7	2021 08 30.92390	16 17 47.56	+53 03 20.9	17.5	T	K Z10
C/2019 K7	2021 08 31.94624	16 17 22.57	+52 56 05.6	17.2	T	K I81
C/2019 K7	2021 08 31.94838	16 17 22.51	+52 56 04.7	17.2	T	K I81
C/2019 K7	2021 08 31.95051	16 17 22.46	+52 56 03.9	17.3	T	K I81
C/2019 K7	2021 09 01.272253	16 17 14.94	+52 53 48.2	17.52o		T08
C/2019 K7	2021 09 01.275480	16 17 14.85	+52 53 47.1	17.68o		T08
C/2019 K7	2021 09 01.282929	16 17 14.69	+52 53 43.7	17.04o		T08
C/2019 K7	2021 09 01.293089	16 17 14.46	+52 53 39.1	16.96o		T08
C/2019 K7	2021 09 01.82086	16 17 02.37	+52 49 54.9	17.4	T	K 215
C/2019 K7	2021 09 01.82215	16 17 02.35	+52 49 54.3	17.4	T	K 215
C/2019 K7	2021 09 01.82344	16 17 02.33	+52 49 53.9	17.1	T	K 215
C/2019 K7	2021 09 05.232753	16 15 52.91	+52 25 58.5	17.14o		T08
C/2019 K7	2021 09 05.243392	16 15 52.70	+52 25 54.2	17.14o		T08
C/2019 K7	2021 09 05.254000	16 15 52.48	+52 25 49.5	17.65o		T08
C/2019 K7	2021 09 07.226640	16 15 19.11	+52 12 08.4	17.96c		T05
C/2019 K7	2021 09 07.229856	16 15 19.14	+52 12 07.4	17.38c		T05
C/2019 K7	2021 09 07.237224	16 15 19.05	+52 12 04.1	17.38c		T05
C/2019 K7	2021 09 07.264752	16 15 18.54	+52 11 52.9	18.04c		T05
C/2019 K7	2021 09 07.84843	16 15 09.66	+52 07 50.7	17.3	T	B96
C/2019 K7	2021 09 07.85345	16 15 09.45	+52 07 48.9	17.4	T	B96
C/2019 K7	2021 09 07.85838	16 15 09.42	+52 07 46.1	17.2	T	B96
C/2019 K7	2021 09 07.87896	16 15 09.13	+52 07 38.0	17.3	T	K 970
C/2019 K7	2021 09 07.88313	16 15 09.08	+52 07 36.4	17.3	T	K 970
C/2019 K7	2021 09 07.98670	16 15 07.54	+52 06 53.1	17.3	T	K I81
C/2019 K7	2021 09 07.98881	16 15 07.50	+52 06 52.2	17.3	T	K I81
C/2019 K7	2021 09 07.99091	16 15 07.47	+52 06 51.5	17.3	T	K I81
C/2019 K7	2021 09 08.82323	16 14 55.62	+52 01 09.9	17.3	T	C23
C/2019 K7	2021 09 08.82900	16 14 55.64	+52 01 07.2	17.3	T	C23
C/2019 K7	2021 09 08.83333	16 14 55.58	+52 01 05.5	16.9	T	C23
C/2019 K7	2021 09 10.84903	16 14 30.27	+51 47 24.4	17.4	T	L79
C/2019 K7	2021 09 10.85163	16 14 30.28	+51 47 23.8	17.7	T	L79
C/2019 K7	2021 09 10.85418	16 14 30.40	+51 47 23.2	17.9	T	L79
C/2019 K7	2021 09 11.85285	16 14 19.37	+51 40 41.3	17.5	N	J22
C/2019 K7	2021 09 11.85654	16 14 19.34	+51 40 39.9	17.5	N	J22
C/2019 K7	2021 09 11.86035	16 14 19.32	+51 40 38.2	17.5	N	J22
C/2019 K7	2021 09 11.86149	16 14 19.25	+51 40 37.1	18.0	T	G20
C/2019 K7	2021 09 11.86844	16 14 19.21	+51 40 34.7	17.8	T	G20
C/2019 K7	2021 09 11.87615	16 14 19.17	+51 40 31.5	17.6	T	G20
C/2019 K7	2021 09 12.155498	16 14 16.40	+51 38 39.1	17.53G		703
C/2019 K7	2021 09 12.170751	16 14 16.27	+51 38 33.0	16.65G		703
C/2019 K7	2021 09 12.182723	16 14 16.13	+51 38 27.9	17.07G		703
C/2019 K7	2021 09 12.188150	16 14 16.21	+51 38 25.5	17.07G		703
C/2019 K7	2021 09 13.219309	16 14 06.50	+51 31 35.4	17.68o		T08
C/2019 K7	2021 09 13.222529	16 14 06.45	+51 31 34.2	16.82o		T08
C/2019 K7	2021 09 13.228547	16 14 06.38	+51 31 32.1	17.51o		T08
C/2019 K7	2021 09 13.241512	16 14 06.25	+51 31 26.7	17.50o		T08

C/2019 K8 (ATLAS)

C/2019 K8	2019 07 18.948369	15 41 26.86	+74 12 58.4	17.7	G	C57
Geocentric position (km)	+134508.677	+43802.4200	+50369.7990			
C/2019 K8	2019 07 18.990036	15 41 15.22	+74 12 40.1	17.9	G	C57
Geocentric position (km)	+136296.701	+50314.8790	+51475.0910			
C/2019 K8	2019 07 19.073369	15 40 52.73	+74 11 53.9	17.9	G	C57
Geocentric position (km)	+139307.202	+63123.4270	+53471.3780			
C/2019 K8	2019 07 19.094203	15 40 45.42	+74 11 46.8	18.0	G	C57
Geocentric position (km)	+139950.490	+66278.3400	+53928.6290			
C/2019 K8	2019 07 19.115036	15 40 41.34	+74 11 34.4	18.0	G	C57
Geocentric position (km)	+140552.734	+69413.8070	+54370.0560			
C/2019 K8	2019 07 19.135869	15 40 35.31	+74 11 22.8	18.0	G	C57
Geocentric position (km)	+141115.186	+72529.6200	+54796.0850			
C/2019 K8	2019 07 19.219203	15 40 10.45	+74 10 45.4	17.8	G	C57
Geocentric position (km)	+142990.544	+84793.1810	+56354.2300			
C/2019 K8	2019 07 19.260869	15 39 58.01	+74 10 26.3	18.1	G	C57
Geocentric position (km)	+143718.751	+90803.6880	+57050.9570			
C/2019 K8	2019 07 19.281703	15 39 51.58	+74 10 16.3	18.1	G	C57
Geocentric position (km)	+144034.005	+93778.4130	+57379.9560			
C/2019 K8	2019 07 19.302536	15 39 46.36	+74 10 04.5	18.0	G	C57
Geocentric position (km)	+144317.933	+96732.7530	+57696.4790			
C/2019 K8	2019 07 19.323369	15 39 40.73	+74 09 58.3	18.0	G	C57
Geocentric position (km)	+144571.423	+99666.7050	+58000.8390			
C/2019 K8	2019 07 19.344203	15 39 34.65	+74 09 46.5	17.9	G	C57
Geocentric position (km)	+144795.330	+102580.279	+58293.3360			
C/2019 K8	2019 07 19.365036	15 39 28.60	+74 09 36.5	17.6	G	C57
Geocentric position (km)	+144990.479	+105473.497	+58574.2630			
C/2019 K8	2019 07 19.427536	15 39 11.13	+74 09 03.1	17.7	G	C57
Geocentric position (km)	+145411.168	+114031.397	+59350.3890			
C/2019 K8	2019 07 19.448369	15 39 04.25	+74 08 55.2	17.8	G	C57
Geocentric position (km)	+145498.941	+116843.620	+59587.7590			
C/2019 K8	2019 07 19.469203	15 38 58.89	+74 08 44.7	17.7	G	C57
Geocentric position (km)	+145561.650	+119635.745	+59814.8770			
C/2019 K8	2019 07 19.490036	15 38 53.63	+74 08 35.1	18.0	G	C57
Geocentric position (km)	+145599.960	+122407.848	+60031.9830			
C/2019 K8	2019 07 19.510869	15 38 48.01	+74 08 25.6	17.8	G	C57
Geocentric position (km)	+145614.509	+125160.010	+60239.3070			
C/2019 K8	2019 07 19.531703	15 38 40.75	+74 08 13.9	18.0	G	C57
Geocentric position (km)	+145605.916	+127892.315	+60437.0730			
C/2019 K8	2019 07 19.552536	15 38 35.53	+74 08 01.9	17.8	G	C57
Geocentric position (km)	+145574.777	+130604.856	+60625.4980			
C/2019 K8	2019 07 19.573369	15 38 30.06	+74 07 51.3	17.9	G	C57
Geocentric position (km)	+145521.668	+133297.728	+60804.7920			
C/2019 K8	2019 07 19.594203	15 38 24.15	+74 07 41.5	17.9	G	C57
Geocentric position (km)	+145447.147	+135971.029	+60975.1580			
C/2019 K8	2019 07 19.615036	15 38 18.06	+74 07 34.2	18.3	G	C57
Geocentric position (km)	+145351.752	+138624.862	+61136.7930			
C/2019 K8	2019 07 19.635869	15 38 11.43	+74 07 23.3	18.2	G	C57
Geocentric position (km)	+145236.005	+141259.332	+61289.8880			
C/2019 K8	2019 07 19.656703	15 38 06.73	+74 07 11.5	18.2	G	C57
Geocentric position (km)	+145100.407	+143874.546	+61434.6290			
C/2019 K8	2019 07 19.844202	15 37 14.57	+74 05 47.7	18.7	G	C57
Geocentric position (km)	+143062.310	+166563.583	+62389.3020			

C/2019 K8 2019 07 19.906702 15 36 55.36 +74 05 12.0 18.7 G C57
Geocentric position (km) +142087.826 +173796.514 +62580.2570
C/2019 K8 2019 07 20.135869 15 35 52.64 +74 03 23.1 18.2 G C57
Geocentric position (km) +137454.421 +198974.568 +62812.3220
C/2019 K8 2019 07 20.156702 15 35 47.93 +74 03 11.4 18.2 G C57
Geocentric position (km) +136959.183 +201162.313 +62800.2290
C/2019 K8 2019 07 20.198369 15 35 36.38 +74 02 47.5 18.2 G C57
Geocentric position (km) +135935.261 +205488.786 +62760.8220
C/2019 K8 2019 07 20.219202 15 35 30.28 +74 02 38.0 18.1 G C57
Geocentric position (km) +135407.034 +207627.732 +62733.6840
C/2019 K8 2019 07 20.260869 15 35 18.92 +74 02 16.2 18.1 G C57
Geocentric position (km) +134319.153 +211857.578 +62664.9680
C/2019 K8 2019 07 20.323369 15 35 01.66 +74 01 47.0 18.1 G C57
Geocentric position (km) +132611.900 +218083.812 +62527.0190
C/2019 K8 2019 07 20.344202 15 34 55.56 +74 01 35.1 18.0 G C57
Geocentric position (km) +132023.502 +220128.027 +62472.0480
C/2019 K8 2019 07 20.365036 15 34 50.33 +74 01 23.5 17.9 G C57
Geocentric position (km) +131425.766 +222156.813 +62412.7100
C/2019 K8 2019 07 20.406702 15 34 38.86 +74 01 05.3 17.9 G C57
Geocentric position (km) +130203.014 +226168.497 +62281.2140
C/2019 K8 2019 07 20.427535 15 34 33.87 +74 00 52.5 17.9 G C57
Geocentric position (km) +129578.353 +228151.591 +62209.1980
C/2019 K8 2019 07 20.448369 15 34 27.56 +74 00 44.1 18.2 G C57
Geocentric position (km) +128945.067 +230119.649 +62133.0930
C/2019 K8 2019 07 20.469202 15 34 21.64 +74 00 36.5 18.1 G C57
Geocentric position (km) +128303.322 +232072.767 +62052.9660
C/2019 K8 2019 07 20.635869 15 33 35.82 +73 59 12.6 18.1 G C57
Geocentric position (km) +122883.696 +247170.975 +61274.6130
C/2019 K8 2019 07 20.656702 15 33 30.94 +73 59 01.1 18.3 G C57
Geocentric position (km) +122172.745 +248993.755 +61161.0320
C/2019 K8 2019 07 20.698369 15 33 20.16 +73 58 40.3 17.8 G C57
Geocentric position (km) +120730.027 +252597.270 +60923.6150
C/2019 K8 2019 07 20.740035 15 33 07.93 +73 58 20.9 17.8 G C57
Geocentric position (km) +119260.406 +256145.280 +60672.8690
C/2019 K8 2019 07 20.781702 15 32 58.20 +73 58 02.6 17.9 G C57
Geocentric position (km) +117764.870 +259638.438 +60409.1910
C/2019 K8 2019 07 20.844202 15 32 40.57 +73 57 36.3 18.1 G C57
Geocentric position (km) +115474.184 +264776.127 +59990.8730
C/2019 K8 2019 07 20.969202 15 32 06.90 +73 56 28.2 18.0 G C57
Geocentric position (km) +110737.826 +274694.900 +59073.0790
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P/2019 LD$_2$ (ATLAS)

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P/2019 LD$_2$ 2021 05 19.81234 23 44 02.65 +01 04 47.2 19.1 T 01Q62
P/2019 LD$_2$ 2021 09 01.95000 23 59 53.07 +00 58 24.5 18.5 T K 215
P/2019 LD$_2$ 2021 09 01.95258 23 59 53.00 +00 58 24.1 18.6 T K 215
P/2019 LD$_2$ 2021 09 01.95516 23 59 52.93 +00 58 23.6 18.5 T K 215
P/2019 LD$_2$ 2021 09 07.93341 23 57 20.67 +00 32 42.6 18.6 T K77
P/2019 LD$_2$ 2021 09 07.96873 23 57 19.76 +00 32 33.3 19.2 T K77
P/2019 LD$_2$ 2021 09 11.04349 23 55 57.53 +00 18 46.8 19.0 T A98
P/2019 LD$_2$ 2021 09 11.04987 23 55 57.23 +00 18 46.3 19.0 T A98
P/2019 LD$_2$ 2021 09 11.05412 23 55 57.14 +00 18 45.9 19.1 T A98
P/2019 LD$_2$ 2021 09 11.05836 23 55 56.95 +00 18 43.9 19.0 T A98
P/2019 LD$_2$ 2021 09 11.06261 23 55 56.75 +00 18 43.2 19.1 T A98
P/2019 LD$_2$ 2021 09 11.06473 23 55 56.74 +00 18 41.5 19.1 T A98
P/2019 LD$_2$ 2021 09 14.14812 23 54 32.40 +00 04 43.0 18.9 T X03
P/2019 LD$_2$ 2021 09 14.15705 23 54 32.22 +00 04 41.3 18.6 T K X03
P/2019 LD$_2$ 2021 09 14.16709 23 54 31.92 +00 04 38.6 18.6 T K X03
P/2019 LD$_2$ 2021 09 14.17713 23 54 31.62 +00 04 35.9 18.5 T K X03

P/2019 LD_2	2021 09 14.18605	23 54 31.46	+00 04 33.6	18.7 T		X03
P/2019 LD_2	2021 09 15.89997	23 53 43.80	−00 03 23.1	18.1 T	K	B96
P/2019 LD_2	2021 09 15.90736	23 53 43.68	−00 03 24.1	18.1 T	K	B96

C/2019 L3 (ATLAS)

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C/2019 L3	2021 04 05.144319	02 27 35.17	+51 03 48.0	14.83T		I41
C/2019 L3	2021 04 05.146260	02 27 35.38	+51 03 47.9	14.90T		I41
C/2019 L3	2021 04 05.148209	02 27 35.60	+51 03 47.7	14.78T		I41
C/2019 L3	2021 08 08.483600	06 22 08.49	+47 12 02.2	14.08T		I41
C/2019 L3	2021 08 08.486060	06 22 08.73	+47 12 01.7	14.05T		I41
C/2019 L3	2021 08 08.488520	06 22 08.96	+47 12 01.1	14.06T		I41
C/2019 L3	2021 08 08.490980	06 22 09.20	+47 12 00.5	14.06T		I41
C/2019 L3	2021 08 09.12784	06 23 10.16	+47 09 28.1	13.2 T		L27
C/2019 L3	2021 08 09.13335	06 23 10.66	+47 09 26.9	13.2 T		L27
C/2019 L3	2021 08 09.13925	06 23 11.24	+47 09 25.0	13.3 T		L27
C/2019 L3	2021 08 09.484130	06 23 44.25	+47 08 02.9	14.12T		I41
C/2019 L3	2021 08 09.486600	06 23 44.47	+47 08 02.4	14.05T		I41
C/2019 L3	2021 08 09.489050	06 23 44.71	+47 08 01.8	14.10T		I41
C/2019 L3	2021 08 09.491520	06 23 44.94	+47 08 01.2	14.10T		I41
C/2019 L3	2021 08 10.76097	06 25 45.58	+47 02 54.8	12.8 T	K	Q21
C/2019 L3	2021 08 10.76623	06 25 46.12	+47 02 53.3	12.4 T	K	Q21
C/2019 L3	2021 08 12.00250	06 27 42.44	+46 57 51.0	13.7 T		C23
C/2019 L3	2021 08 12.00625	06 27 42.81	+46 57 50.3	13.7 T		C23
C/2019 L3	2021 08 12.00924	06 27 43.10	+46 57 49.7	13.8 T		C23
C/2019 L3	2021 08 12.06861	06 27 48.66	+46 57 35.1	13.1 T		I81
C/2019 L3	2021 08 12.07001	06 27 48.79	+46 57 34.8	13.1 T		I81
C/2019 L3	2021 08 12.07142	06 27 48.92	+46 57 34.5	13.1 T		I81
C/2019 L3	2021 08 12.07285	06 27 49.07	+46 57 34.1	13.1 T		I81
C/2019 L3	2021 08 12.07427	06 27 49.19	+46 57 33.7	13.1 T		I81
C/2019 L3	2021 08 12.07569	06 27 49.32	+46 57 33.4	13.1 T		I81
C/2019 L3	2021 08 13.10897	06 29 25.94	+46 53 19.8	13.4 T	K	213
C/2019 L3	2021 08 13.13111	06 29 28.09	+46 53 13.8		K	213
C/2019 L3	2021 08 13.15436	06 29 30.31	+46 53 07.9	13.1 T	K	213
C/2019 L3	2021 08 14.14767	06 31 02.47	+46 49 02.7	13.2 N		J01
C/2019 L3	2021 08 14.15682	06 31 03.27	+46 49 01.0	13.2 N		J01
C/2019 L3	2021 08 14.17054	06 31 04.57	+46 48 57.3	13.2 N		J01
C/2019 L3	2021 08 14.604458	06 31 44.69	+46 47 10.0	12.68o		T05
C/2019 L3	2021 08 14.609102	06 31 45.11	+46 47 08.9	12.65o		T05
C/2019 L3	2021 08 14.609559	06 31 45.14	+46 47 08.8	13.80o		T05
C/2019 L3	2021 08 14.613277	06 31 45.49	+46 47 08.0	12.55o		T05
C/2019 L3	2021 08 14.620961	06 31 46.20	+46 47 06.1	12.62o		T05
C/2019 L3	2021 08 14.622825	06 31 46.39	+46 47 05.7	12.60o		T05
C/2019 L3	2021 08 14.630807	06 31 47.12	+46 47 03.7	12.67o		T05
C/2019 L3	2021 08 14.632181	06 31 47.23	+46 47 03.3	12.60o		T05
C/2019 L3	2021 08 17.13615	06 35 36.06	+46 36 32.2	13.2 N		J01
C/2019 L3	2021 08 17.14525	06 35 36.89	+46 36 30.3	13.2 N		J01
C/2019 L3	2021 08 17.15441	06 35 37.72	+46 36 28.2	13.2 N		J01
C/2019 L3	2021 08 17.15874	06 35 38.09	+46 36 27.0	13.7 T		Z10
C/2019 L3	2021 08 17.16500	06 35 38.64	+46 36 24.8	13.7 T		Z10
C/2019 L3	2021 08 17.17282	06 35 39.28	+46 36 23.3	13.7 T		Z10
C/2019 L3	2021 08 18.77130	06 38 03.30	+46 29 36.0			D95
C/2019 L3	2021 08 18.77276	06 38 03.43	+46 29 35.6			D95
C/2019 L3	2021 08 18.77567	06 38 03.69	+46 29 34.9	11.2 T		D95
C/2019 L3	2021 08 21.16733	06 41 35.77	+46 19 16.6	13.7 T		Z10
C/2019 L3	2021 08 21.17278	06 41 36.23	+46 19 14.9	13.7 T		Z10
C/2019 L3	2021 08 21.17822	06 41 36.73	+46 19 13.9	13.7 T		Z10
C/2019 L3	2021 08 22.610683	06 43 41.95	+46 13 00.3	12.66o		T05
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C/2019 L3	2021 08 24.01011	06 45 42.75	+46 06 50.0	14.0 T		C23
C/2019 L3	2021 08 24.01684	06 45 43.35	+46 06 48.0	14.0 T		C23
C/2019 L3	2021 08 24.02283	06 45 43.84	+46 06 47.1	14.0 T		C23
C/2019 L3	2021 08 24.12713	06 45 52.79	+46 06 19.8	13.2 T		G06
C/2019 L3	2021 08 24.12933	06 45 52.98	+46 06 19.2	13.2 T		G06
C/2019 L3	2021 08 24.13153	06 45 53.12	+46 06 18.4	13.2 T		G06
C/2019 L3	2021 08 26.17203	06 48 46.80	+45 57 16.4	13.7 T		Z10
C/2019 L3	2021 08 26.17911	06 48 47.40	+45 57 13.9	13.6 T		Z10
C/2019 L3	2021 08 26.18691	06 48 48.04	+45 57 12.1	13.7 T		Z10
C/2019 L3	2021 08 27.99140	06 51 19.06	+45 49 06.1	13.7 T		C23
C/2019 L3	2021 08 27.99718	06 51 19.62	+45 49 04.2	14.1 T		C23
C/2019 L3	2021 08 28.00295	06 51 20.01	+45 49 03.1	13.6 T		C23
C/2019 L3	2021 08 28.01280	06 51 20.76	+45 49 00.2	13.0 T		I81
C/2019 L3	2021 08 28.01495	06 51 20.96	+45 48 59.4	13.1 T		I81
C/2019 L3	2021 08 28.01712	06 51 21.09	+45 48 59.0	13.0 T		I81
C/2019 L3	2021 08 28.15337	06 51 32.46	+45 48 22.9	13.6 T		Z10
C/2019 L3	2021 08 28.15962	06 51 32.98	+45 48 21.3	13.6 T		Z10
C/2019 L3	2021 08 28.16742	06 51 33.62	+45 48 19.3	13.6 T		Z10
C/2019 L3	2021 08 28.77021	06 52 23.52	+45 45 36.4	11.2 T		D95
C/2019 L3	2021 08 28.77167	06 52 23.62	+45 45 36.3			D95
C/2019 L3	2021 08 28.77603	06 52 23.97	+45 45 35.1			D95
C/2019 L3	2021 08 30.608797	06 54 53.73	+45 37 16.9	12.75o		T05
C/2019 L3	2021 08 30.609255	06 54 53.83	+45 37 17.3	12.58o		T05
C/2019 L3	2021 08 30.612919	06 54 54.09	+45 37 16.0	12.85o		T05
C/2019 L3	2021 08 30.613377	06 54 54.17	+45 37 16.2	12.56o		T05
C/2019 L3	2021 08 30.623639	06 54 54.99	+45 37 13.6	12.54o		T05
C/2019 L3	2021 08 30.634314	06 54 55.85	+45 37 10.8	12.58o		T05
C/2019 L3	2021 08 30.636604	06 54 56.01	+45 37 09.8	12.82o		T05
C/2019 L3	2021 08 31.14593	06 55 37.12	+45 34 50.0	13.9 T		A77
C/2019 L3	2021 08 31.14918	06 55 37.39	+45 34 48.9	13.5 T		A77
C/2019 L3	2021 08 31.15244	06 55 37.65	+45 34 48.2	11.6 T		A77
C/2019 L3	2021 09 01.05256	06 56 49.86	+45 30 39.8	13.0 T	K	I81
C/2019 L3	2021 09 01.05435	06 56 50.00	+45 30 39.7	13.0 T	K	I81
C/2019 L3	2021 09 01.05615	06 56 50.14	+45 30 38.7	13.0 T	K	I81
C/2019 L3	2021 09 02.10125	06 58 13.24	+45 25 51.8	13.7 T	K	215
C/2019 L3	2021 09 02.10254	06 58 13.34	+45 25 51.4	14.0 T	K	215
C/2019 L3	2021 09 02.10383	06 58 13.45	+45 25 51.1	13.7 T	K	215
C/2019 L3	2021 09 03.11959	06 59 33.28	+45 21 10.2	13.1 T		G06
C/2019 L3	2021 09 03.12319	06 59 33.59	+45 21 09.3	13.1 T		G06
C/2019 L3	2021 09 03.13758	06 59 34.70	+45 21 05.3	13.2 T		G06
C/2019 L3	2021 09 03.14117	06 59 34.99	+45 21 04.4	13.1 T		G06
C/2019 L3	2021 09 03.454830	06 59 59.60	+45 19 37.8	12.10G		703
C/2019 L3	2021 09 03.460368	07 00 00.03	+45 19 36.4	12.10G		703
C/2019 L3	2021 09 03.465910	07 00 00.46	+45 19 34.9	12.05G		703
C/2019 L3	2021 09 03.471450	07 00 00.89	+45 19 33.4	11.88G		703

C/2019 L3	2021 09 04.16677	07 00 54.85	+45 16 19.9	13.1	N	J01
C/2019 L3	2021 09 04.17045	07 00 55.13	+45 16 18.9	13.1	N	J01
C/2019 L3	2021 09 04.18149	07 00 55.98	+45 16 15.8	13.1	N	J01
C/2019 L3	2021 09 05.604560	07 02 45.30	+45 09 39.7	12.63o		T08
C/2019 L3	2021 09 05.608711	07 02 45.62	+45 09 38.6	12.64o		T08
C/2019 L3	2021 09 05.623087	07 02 46.70	+45 09 34.6	12.61o		T08
C/2019 L3	2021 09 05.635102	07 02 47.60	+45 09 31.4	12.62o		T08
C/2019 L3	2021 09 07.12481	07 04 40.08	+45 02 32.0	12.9	T	I81
C/2019 L3	2021 09 07.12696	07 04 40.24	+45 02 31.4	12.9	T	I81
C/2019 L3	2021 09 07.12912	07 04 40.40	+45 02 30.7	12.9	T	I81
C/2019 L3	2021 09 07.13128	07 04 40.56	+45 02 30.2	12.9	T	I81
C/2019 L3	2021 09 07.99709	07 05 45.12	+44 58 26.0	13.0	T	K 970
C/2019 L3	2021 09 08.00127	07 05 45.42	+44 58 24.6	13.1	T	K 970
C/2019 L3	2021 09 08.09573	07 05 52.45	+44 57 58.9	13.6	T	C23
C/2019 L3	2021 09 08.10247	07 05 52.96	+44 57 57.0	13.6	T	C23
C/2019 L3	2021 09 08.10672	07 05 53.22	+44 57 55.5	12.9	T	I81
C/2019 L3	2021 09 08.10885	07 05 53.38	+44 57 54.9	12.9	T	I81
C/2019 L3	2021 09 08.10921	07 05 53.45	+44 57 55.2	13.6	T	C23
C/2019 L3	2021 09 08.11100	07 05 53.53	+44 57 54.3	12.9	T	I81
C/2019 L3	2021 09 08.11311	07 05 53.69	+44 57 53.7	12.9	T	I81
C/2019 L3	2021 09 09.21317	07 07 14.68	+44 52 43.9	12.4	T	02G40
C/2019 L3	2021 09 09.21824	07 07 15.03	+44 52 42.6	12.4	T	02G40
C/2019 L3	2021 09 09.22431	07 07 15.46	+44 52 40.8	12.4	T	02G40
C/2019 L3	2021 09 10.04934	07 08 15.47	+44 48 46.2			K G18
C/2019 L3	2021 09 10.07022	07 08 17.01	+44 48 40.3			K G18
C/2019 L3	2021 09 10.98868	07 09 23.10	+44 44 18.9	12.6	T	L79
C/2019 L3	2021 09 10.99193	07 09 23.32	+44 44 18.0	12.6	T	L79
C/2019 L3	2021 09 10.99448	07 09 23.52	+44 44 17.4	12.5	T	L79
C/2019 L3	2021 09 12.14101	07 10 44.87	+44 38 51.1	13.5	T	Z10
C/2019 L3	2021 09 12.14725	07 10 45.31	+44 38 49.4	13.5	T	Z10
C/2019 L3	2021 09 12.15500	07 10 45.85	+44 38 47.5	13.5	T	Z10
C/2019 L3	2021 09 13.04241	07 11 48.01	+44 34 33.5			K G18
C/2019 L3	2021 09 13.05170	07 11 48.77	+44 34 30.2			K G18
C/2019 L3	2021 09 13.609520	07 12 27.48	+44 31 52.3	12.24o		T08
C/2019 L3	2021 09 13.619706	07 12 28.17	+44 31 49.4	12.32o		T08
C/2019 L3	2021 09 13.630547	07 12 28.92	+44 31 46.4	12.22o		T08
C/2019 L3	2021 09 13.637007	07 12 29.36	+44 31 44.5	12.27o		T08
C/2019 L3	2021 09 15.611743	07 14 44.06	+44 22 16.8	12.74c		T05
C/2019 L3	2021 09 15.629454	07 14 45.24	+44 22 11.9	12.77c		T05
C/2019 L3	2021 09 15.635426	07 14 45.63	+44 22 10.1	12.84c		T05
C/2019 L3	2021 09 15.639581	07 14 45.91	+44 22 09.0	12.83c		T05
C/2019 L3	2021 09 16.08255	07 15 15.60	+44 19 59.6	13.6	T	C23
C/2019 L3	2021 09 16.08853	07 15 16.00	+44 19 57.9	13.6	T	C23
C/2019 L3	2021 09 16.09452	07 15 16.40	+44 19 56.2	13.7	T	C23
C/2019 L3	2021 09 16.13050	07 15 18.78	+44 19 46.0	13.0	T	970
C/2019 L3	2021 09 16.13382	07 15 18.99	+44 19 45.0	13.0	T	970
C/2019 L3	2021 09 17.14060	07 16 25.78	+44 14 54.7	14.3	T	A77
C/2019 L3	2021 09 17.14385	07 16 25.99	+44 14 53.4	14.6	T	A77
C/2019 L3	2021 09 17.14790	07 16 26.26	+44 14 52.1	14.6	T	A77
C/2019 L3	2021 09 17.18203	07 16 28.50	+44 14 42.9	13.5	T	Z10
C/2019 L3	2021 09 17.18912	07 16 28.98	+44 14 40.5	13.5	T	Z10
C/2019 L3	2021 09 17.19697	07 16 29.46	+44 14 38.3	13.5	T	Z10

C/2019 N1 (ATLAS)

C/2019 N1	2019 08 02.010863	18 36 23.52	+83 51 55.8	18.2	G	C57
Geocentric position (km)	+138143.652	+42056.1280	+47984.6660			
C/2019 N1	2019 08 02.031697	18 36 15.81	+83 51 44.0	18.4	G	C57
Geocentric position (km)	+139076.338	+45296.7620	+48509.6970			
C/2019 N1	2019 08 02.073363	18 35 56.16	+83 51 31.1	18.1	G	C57
Geocentric position (km)	+140796.000	+51729.4040	+49508.7420			
C/2019 N1	2019 08 02.135863	18 35 24.46	+83 51 18.1	18.2	G	C57
Geocentric position (km)	+143032.902	+61249.9390	+50886.3860			
C/2019 N1	2019 08 02.177530	18 35 05.30	+83 51 00.1	18.4	G	C57
Geocentric position (km)	+144311.463	+67507.1290	+51729.0400			
C/2019 N1	2019 08 02.198363	18 34 56.42	+83 50 53.7	18.0	G	C57
Geocentric position (km)	+144890.678	+70607.9370	+52128.8020			
C/2019 N1	2019 08 02.219197	18 34 46.16	+83 50 50.3	18.1	G	C57
Geocentric position (km)	+145431.409	+73689.9290	+52514.6790			
C/2019 N1	2019 08 02.281697	18 34 16.52	+83 50 31.2	18.2	G	C57
Geocentric position (km)	+146833.683	+82821.3470	+53592.4680			
C/2019 N1	2019 08 02.344197	18 33 47.24	+83 50 08.9	18.0	G	C57
Geocentric position (km)	+147927.508	+91778.4560	+54557.3380			
C/2019 N1	2019 08 02.427530	18 33 06.57	+83 49 40.9	18.4	G	C57
Geocentric position (km)	+148949.268	+103447.172	+55682.0840			
C/2019 N1	2019 08 02.448363	18 32 59.93	+83 49 35.6	18.1	G	C57
Geocentric position (km)	+149132.310	+106315.277	+55936.2030			
C/2019 N1	2019 08 02.469197	18 32 49.77	+83 49 31.4	18.2	G	C57
Geocentric position (km)	+149287.937	+109163.770	+56180.0010			
C/2019 N1	2019 08 02.531697	18 32 19.85	+83 49 07.9	18.4	G	C57
Geocentric position (km)	+149597.463	+117591.904	+56851.8280			
C/2019 N1	2019 08 02.573363	18 32 00.51	+83 49 00.9	18.4	G	C57
Geocentric position (km)	+149679.405	+123113.335	+57252.3030			
C/2019 N1	2019 08 02.594197	18 31 46.90	+83 48 46.8	18.1	G	C57
Geocentric position (km)	+149684.951	+125845.029	+57438.9500			
C/2019 N1	2019 08 02.740030	18 30 44.11	+83 48 04.4	18.0	G	C57
Geocentric position (km)	+149115.568	+144432.222	+58509.6430			
C/2019 N1	2019 08 02.760863	18 30 32.79	+83 47 56.5	18.6	G	C57
Geocentric position (km)	+148953.574	+147012.194	+58631.0180			
C/2019 N1	2019 08 03.260863	18 26 46.65	+83 45 17.8	18.4	G	C57
Geocentric position (km)	+140318.325	+203605.451	+59623.7130			
C/2019 N1	2019 08 03.323363	18 26 18.78	+83 44 53.0	18.3	G	C57
Geocentric position (km)	+138717.168	+210000.554	+59530.3090			
C/2019 N1	2019 08 03.448363	18 25 23.02	+83 44 12.3	18.3	G	C57
Geocentric position (km)	+135241.068	+222368.604	+59224.8620			
C/2019 N1	2019 08 03.490030	18 25 05.28	+83 43 56.6	18.5	G	C57
Geocentric position (km)	+134007.018	+226369.041	+59089.9820			
C/2019 N1	2019 08 03.510863	18 24 55.28	+83 43 52.5	18.3	G	C57
Geocentric position (km)	+133376.688	+228346.762	+59016.6400			
C/2019 N1	2019 08 03.531696	18 24 45.90	+83 43 42.4	18.2	G	C57
Geocentric position (km)	+132737.717	+230309.607	+58939.4490			
C/2019 N1	2019 08 03.552529	18 24 37.88	+83 43 34.2	18.0	G	C57
Geocentric position (km)	+132090.272	+232257.665	+58858.4680			
C/2019 N1	2019 08 03.594196	18 24 18.56	+83 43 19.5	18.0	G	C57
Geocentric position (km)	+130770.612	+236109.785	+58685.3770			
C/2019 N1	2019 08 03.740029	18 23 15.66	+83 42 26.5	18.3	G	C57
Geocentric position (km)	+125907.721	+249139.343	+57968.5790			

C/2019 N1 2019 08 03.802529 18 22 48.07 +83 42 09.9 18.1 G C57
Geocentric position (km) +123715.915 +254512.831 +57611.6770
C/2019 N1 2019 08 03.823363 18 22 37.27 +83 42 04.0 18.3 G C57
Geocentric position (km) +122971.920 +256276.506 +57486.4420
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C/2019 N1 2019 08 06.531695 18 03 54.22 +83 24 49.4 18.3 G C57
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C/2019 N1 2021 08 11.56762 05 32 44.83 −58 49 08.4 15.7 T K E94
C/2019 N1 2021 08 11.57779 05 32 44.76 −58 49 16.2 15.7 T K E94
C/2019 N1 2021 08 18.95849 05 30 56.56 −60 21 26.1 19 R C51
Geocentric position (km) + 972.8885 + 3368.3570 − 5894.2277
C/2019 N1 2021 08 19.08914 05 30 53.67 −60 23 07.2 C51
Geocentric position (km) + 965.1219 + 3405.5725 − 5874.0734
C/2019 N1 2021 08 19.61199 05 30 41.28 −60 29 50.7 C51
Geocentric position (km) + 934.6349 + 3410.2921 − 5876.2281
C/2019 N1 2021 08 19.74277 05 30 38.31 −60 31 32.4 C51
Geocentric position (km) + 927.6426 + 3375.0091 − 5897.6568
C/2019 N1 2021 08 19.87341 05 30 35.09 −60 33 13.2 C51
Geocentric position (km) + 919.3911 + 3412.4075 − 5877.3826
C/2019 N1 2021 08 20.00419 05 30 31.62 −60 34 55.4 C51
Geocentric position (km) + 912.5602 + 3377.0621 − 5898.8136
C/2019 N1 2021 08 20.13484 05 30 28.53 −60 36 36.0 C51
Geocentric position (km) + 904.1484 + 3414.4261 − 5878.5561
C/2019 N1 2021 08 20.26561 05 30 25.37 −60 38 18.3 19 R C51
Geocentric position (km) + 897.4776 + 3379.0917 − 5899.9480

C/2019 N1	2021 08 20.39626	05 30 21.91	−60 40 00.0				C51
Geocentric position (km)	+ 888.9071	+ 3416.3451	− 5879.7466				
C/2019 N1	2021 08 20.65769	05 30 15.09	−60 43 24.0				C51
Geocentric position (km)	+ 873.6682	+ 3418.1399	− 5880.9655				
C/2019 N1	2021 08 20.78846	05 30 11.62	−60 45 05.1				C51
Geocentric position (km)	+ 867.3225	+ 3382.6529	− 5902.3750				
C/2019 N1	2021 08 20.91911	05 30 08.12	−60 46 47.3				C51
Geocentric position (km)	+ 858.4339	+ 3419.8103	− 5882.2195				
C/2019 N1	2021 08 21.18054	05 30 01.01	−60 50 10.6				C51
Geocentric position (km)	+ 843.2067	+ 3421.3001	− 5883.5353				
C/2019 N1	2021 08 21.18066	05 30 01.12	−60 50 12.1				C51
Geocentric position (km)	+ 846.2017	+ 3348.4894	− 5924.8496				
C/2019 N1	2021 08 21.31131	05 29 57.42	−60 51 53.4				C51
Geocentric position (km)	+ 837.1876	+ 3385.6849	− 5904.9474				
C/2019 N1	2021 08 21.44196	05 29 53.71	−60 53 35.6				C51
Geocentric position (km)	+ 827.9844	+ 3422.6961	− 5884.8632				
C/2019 N1	2021 08 21.44209	05 29 53.59	−60 53 36.1				C51
Geocentric position (km)	+ 831.3014	+ 3349.8830	− 5926.1491				
C/2019 N1	2021 08 21.70351	05 29 46.26	−60 57 00.7				C51
Geocentric position (km)	+ 816.4214	+ 3350.9019	− 5927.6239				

A/2019 O2

A/2019 O2	2021 08 10.85946	16 39 41.05	+56 16 46.9	19.8	R	K	215
A/2019 O2	2021 08 10.86050	16 39 41.04	+56 16 46.5	20.0	R	K	215
A/2019 O2	2021 08 10.86153	16 39 41.02	+56 16 45.9	19.9	R	K	215
A/2019 O2	2021 08 15.267390	16 38 04.780	+55 44 11.49	20.13w			F51
A/2019 O2	2021 08 15.281503	16 38 04.495	+55 44 05.07	20.15w			F51
A/2019 O2	2021 08 15.295644	16 38 04.206	+55 43 58.70	20.13w			F51
A/2019 O2	2021 08 15.309817	16 38 03.913	+55 43 52.50	20.26w			F51
A/2019 O2	2021 08 18.83571	16 36 58.14	+55 17 20.2	19.7	V	K	A77
A/2019 O2	2021 08 18.84844	16 36 57.92	+55 17 13.9	19.8	V	K	A77
A/2019 O2	2021 08 18.86117	16 36 57.65	+55 17 08.6	19.6	V	K	A77
A/2019 O2	2021 08 26.169775	16 35 11.81	+54 21 12.7	20.07G			G96
A/2019 O2	2021 08 26.174936	16 35 11.72	+54 21 10.4	20.06G			G96
A/2019 O2	2021 08 26.180108	16 35 11.66	+54 21 08.0	20.17G			G96
A/2019 O2	2021 08 26.185274	16 35 11.59	+54 21 05.4	20.20G			G96
A/2019 O2	2021 09 05.83833	16 33 47.19	+52 58 32.7	20.0	G	K	G02
A/2019 O2	2021 09 05.84678	16 33 47.08	+52 58 28.1	20.3	G	K	G02
A/2019 O2	2021 09 05.85575	16 33 46.99	+52 58 24.3	20.1	G	K	G02
A/2019 O2	2021 09 07.86387	16 33 40.02	+52 42 50.6	19.9	R	K	B96
A/2019 O2	2021 09 07.87126	16 33 40.05	+52 42 48.5	19.9	R	K	B96

C/2019 O3 (Palomar)

C/2019 O3	2021 05 15.02650	19 41 17.77	+45 50 19.9			K	204
C/2019 O3	2021 05 15.05665	19 41 17.11	+45 50 35.3	17.0	T	K	204
C/2019 O3	2021 08 06.372750	18 43 13.34	+51 40 41.1	16.39o			T05
C/2019 O3	2021 08 06.376410	18 43 13.19	+51 40 41.0	16.49o			T05
C/2019 O3	2021 08 06.407482	18 43 11.78	+51 40 39.8	16.50o			T05
C/2019 O3	2021 08 06.436991	18 43 10.51	+51 40 38.0	16.42o			T05
C/2019 O3	2021 08 06.87096	18 42 51.74	+51 40 17.0			K	204
C/2019 O3	2021 08 06.92893	18 42 49.19	+51 40 14.0	16.7	T	K	204
C/2019 O3	2021 08 06.95342	18 42 48.05	+51 40 12.0	17.0	T	K	L47
C/2019 O3	2021 08 06.96715	18 42 47.49	+51 40 12.4	17.2	T	K	L47
C/2019 O3	2021 08 08.367843	18 41 47.43	+51 38 54.1	17.52c			T08
C/2019 O3	2021 08 08.371066	18 41 47.28	+51 38 53.8	17.49c			T08
C/2019 O3	2021 08 08.377520	18 41 47.01	+51 38 53.1	17.48c			T08
C/2019 O3	2021 08 08.409901	18 41 45.62	+51 38 51.5	17.55c			T08
C/2019 O3	2021 08 08.92264	18 41 23.82	+51 38 19.7	17.9	T	K	L47
C/2019 O3	2021 08 08.94362	18 41 22.94	+51 38 17.2	17.6	T	K	L47
C/2019 O3	2021 08 10.04807	18 40 36.60	+51 37 03.2	17.2	T	K	Z10
C/2019 O3	2021 08 10.05351	18 40 36.40	+51 37 03.6	17.1	T	K	Z10
C/2019 O3	2021 08 10.06049	18 40 35.99	+51 37 03.6	17.1	T	K	Z10
C/2019 O3	2021 08 10.257812	18 40 27.92	+51 36 48.8				01 658
C/2019 O3	2021 08 10.262268	18 40 27.73	+51 36 48.5				01 658
C/2019 O3	2021 08 10.266736	18 40 27.54	+51 36 48.2				01 658
C/2019 O3	2021 08 10.271192	18 40 27.35	+51 36 47.8				01 658
C/2019 O3	2021 08 10.275660	18 40 27.16	+51 36 47.5				01 658
C/2019 O3	2021 08 10.365563	18 40 23.43	+51 36 40.0	16.46o			T05
C/2019 O3	2021 08 10.368763	18 40 23.28	+51 36 39.9	16.50o			T05
C/2019 O3	2021 08 10.375636	18 40 23.00	+51 36 39.8	17.32o			T05
C/2019 O3	2021 08 11.88501	18 39 20.98	+51 34 43.0	17.3	T	K	L47
C/2019 O3	2021 08 11.91315	18 39 19.81	+51 34 41.5	17.8	T	K	L47
C/2019 O3	2021 08 11.93039	18 39 19.05	+51 34 38.5	16.9	T		C23
C/2019 O3	2021 08 11.93472	18 39 18.79	+51 34 38.1	16.8	T		C23
C/2019 O3	2021 08 11.93760	18 39 18.73	+51 34 37.6	16.8	T		C23
C/2019 O3	2021 08 12.360499	18 39 01.64	+51 34 02.6	16.65c			T08
C/2019 O3	2021 08 12.363724	18 39 01.53	+51 34 03.4	17.52c			T08
C/2019 O3	2021 08 12.370192	18 39 01.24	+51 34 02.8	17.57c			T08
C/2019 O3	2021 08 12.380330	18 39 00.84	+51 34 01.9	17.56c			T08
C/2019 O3	2021 08 12.83219	18 38 42.65	+51 33 23.2	17.2	T	K	L47
C/2019 O3	2021 08 12.85997	18 38 41.66	+51 33 21.4	17.1	T	K	L47
C/2019 O3	2021 08 13.01164	18 38 35.38	+51 33 07.1	16.9	T	K	970
C/2019 O3	2021 08 13.01530	18 38 35.26	+51 33 06.8	16.9	T	K	970
C/2019 O3	2021 08 14.00473	18 37 55.90	+51 31 36.0	16.9	T		C23
C/2019 O3	2021 08 14.00906	18 37 55.71	+51 31 35.9	16.9	T		C23
C/2019 O3	2021 08 14.01339	18 37 55.53	+51 31 35.3	17.0	T		C23
C/2019 O3	2021 08 14.329062	18 37 43.20	+51 31 05.7	16.56o			T05
C/2019 O3	2021 08 14.332264	18 37 43.02	+51 31 05.8	17.46o			T05
C/2019 O3	2021 08 14.337778	18 37 42.82	+51 31 04.7	16.55o			T05
C/2019 O3	2021 08 14.372857	18 37 41.44	+51 31 01.2	16.49o			T05
C/2019 O3	2021 08 16.327951	18 36 25.79	+51 27 44.0	17.41o			T08
C/2019 O3	2021 08 16.328412	18 36 25.76	+51 27 44.2	17.42o			T08
C/2019 O3	2021 08 16.331654	18 36 25.64	+51 27 42.5	16.38o			T08
C/2019 O3	2021 08 16.332115	18 36 25.61	+51 27 43.7	17.44o			T08
C/2019 O3	2021 08 16.336776	18 36 25.43	+51 27 41.9	16.45o			T08
C/2019 O3	2021 08 16.337238	18 36 25.42	+51 27 43.1	17.42o			T08
C/2019 O3	2021 08 16.347425	18 36 25.04	+51 27 41.8	17.37o			T08
C/2019 O3	2021 08 16.347885	18 36 25.01	+51 27 42.1	17.48o			T08
C/2019 O3	2021 08 16.92032	18 36 03.35	+51 26 39.9	17.1	N		I72
C/2019 O3	2021 08 16.93924	18 36 02.64	+51 26 37.8	17.1	N		I72
C/2019 O3	2021 08 16.95775	18 36 01.91	+51 26 36.1	17.2	N		I72
C/2019 O3	2021 08 16.97948	18 36 01.13	+51 26 32.4			K	204
C/2019 O3	2021 08 16.98319	18 36 00.91	+51 26 32.6	17.0	T	K	970
C/2019 O3	2021 08 16.98734	18 36 00.75	+51 26 32.1	16.9	T	K	970
C/2019 O3	2021 08 17.01807	18 35 59.48	+51 26 30.1			K	204
C/2019 O3	2021 08 18.01639	18 35 22.35	+51 24 36.2	17.2	T	K	Z10
C/2019 O3	2021 08 18.02271	18 35 22.09	+51 24 35.7	17.3	T	K	Z10

C/2019 O3	2021 08 18.02983	18 35 21.82	+51 24 34.8	17.2 T	K	Z10
C/2019 O3	2021 08 18.356258	18 35 09.74	+51 23 57.1	17.43o		T05
C/2019 O3	2021 08 18.359489	18 35 09.63	+51 23 55.9	16.47o		T05
C/2019 O3	2021 08 18.366392	18 35 09.37	+51 23 55.4	16.51o		T05
C/2019 O3	2021 08 18.376963	18 35 09.00	+51 23 54.1	16.58o		T05
C/2019 O3	2021 08 20.321597	18 33 58.58	+51 19 57.0	16.41o		T08
C/2019 O3	2021 08 20.324826	18 33 58.44	+51 19 57.2	17.51o		T08
C/2019 O3	2021 08 20.332195	18 33 58.19	+51 19 55.8	16.61o		T08
C/2019 O3	2021 08 20.344265	18 33 57.72	+51 19 53.9	16.54o		T08
C/2019 O3	2021 08 20.82509	18 33 40.70	+51 18 52.5	17.3 T	K	L47
C/2019 O3	2021 08 20.85862	18 33 39.46	+51 18 50.3	18.6 T	K	L47
C/2019 O3	2021 08 21.88083	18 33 03.86	+51 16 35.0	17.7 T	K	L47
C/2019 O3	2021 08 21.90258	18 33 03.13	+51 16 31.3	17.5 T	K	L47
C/2019 O3	2021 08 22.282442	18 32 50.06	+51 15 40.2			01 658
C/2019 O3	2021 08 22.288021	18 32 49.86	+51 15 39.4			01 658
C/2019 O3	2021 08 22.291366	18 32 49.72	+51 15 38.7			01 658
C/2019 O3	2021 08 22.295833	18 32 49.56	+51 15 38.0			01 658
C/2019 O3	2021 08 22.299178	18 32 49.46	+51 15 37.6			01 658
C/2019 O3	2021 08 22.323899	18 32 48.60	+51 15 34.6	17.39o		T05
C/2019 O3	2021 08 22.327105	18 32 48.54	+51 15 33.7	16.58o		T05
C/2019 O3	2021 08 22.332595	18 32 48.31	+51 15 34.0	17.50o		T05
C/2019 O3	2021 08 22.343133	18 32 47.96	+51 15 31.9	17.41o		T05
C/2019 O3	2021 08 22.81008	18 32 32.06	+51 14 27.0	17.8 T	K	L47
C/2019 O3	2021 08 22.82487	18 32 31.64	+51 14 25.6	16.9 T	K	L47
C/2019 O3	2021 08 23.93926	18 31 54.08	+51 11 48.9	16.9 T	K	970
C/2019 O3	2021 08 23.94337	18 31 53.96	+51 11 48.5	17.1 T	K	970
C/2019 O3	2021 08 23.94489	18 31 53.86	+51 11 47.6	16.8 T		C23
C/2019 O3	2021 08 23.94922	18 31 53.68	+51 11 46.9	16.9 T		C23
C/2019 O3	2021 08 23.95355	18 31 53.62	+51 11 45.9	16.9 T		C23
C/2019 O3	2021 08 26.255661	18 30 39.06	+51 06 05.6	16.71G		G96
C/2019 O3	2021 08 26.260832	18 30 38.89	+51 06 04.9	16.73G		G96
C/2019 O3	2021 08 26.266004	18 30 38.73	+51 06 04.2	16.74G		G96
C/2019 O3	2021 08 26.271181	18 30 38.55	+51 06 03.2	16.69G		G96
C/2019 O3	2021 08 26.334189	18 30 36.57	+51 05 54.8	17.46o		T05
C/2019 O3	2021 08 26.337410	18 30 36.50	+51 05 54.0	16.73o		T05
C/2019 O3	2021 08 26.344746	18 30 36.25	+51 05 52.5	16.51o		T05
C/2019 O3	2021 08 26.354831	18 30 35.93	+51 05 50.9	16.50o		T05
C/2019 O3	2021 08 27.94884	18 29 46.59	+51 01 41.8	17.0 T	K	I81
C/2019 O3	2021 08 27.95035	18 29 46.57	+51 01 40.5	16.4 T		C23
C/2019 O3	2021 08 27.95064	18 29 46.52	+51 01 41.6	16.9 T	K	I81
C/2019 O3	2021 08 27.95243	18 29 46.46	+51 01 41.3	16.5 T	K	I81
C/2019 O3	2021 08 27.95613	18 29 46.35	+51 01 40.5	16.8 T		C23
C/2019 O3	2021 08 27.95901	18 29 46.32	+51 01 39.2	16.5 T		C23
C/2019 O3	2021 08 28.321479	18 29 35.31	+51 00 42.3	16.58o		T08
C/2019 O3	2021 08 28.324705	18 29 35.21	+51 00 41.7	16.60o		T08
C/2019 O3	2021 08 28.332550	18 29 34.95	+51 00 41.0	17.45o		T08
C/2019 O3	2021 08 28.344542	18 29 34.61	+51 00 38.4	16.64o		T08
C/2019 O3	2021 08 28.86158	18 29 19.28	+50 59 16.0	17.9 T	K	L47
C/2019 O3	2021 08 28.87798	18 29 18.52	+50 59 12.6	16.2 T	K	L47
C/2019 O3	2021 08 29.58346	18 28 57.79	+50 57 16.4	16.5 T	K	Q11
C/2019 O3	2021 08 29.58912	18 28 57.63	+50 57 15.4		K	Q11
C/2019 O3	2021 08 29.59513	18 28 57.45	+50 57 14.6		K	Q11
C/2019 O3	2021 08 30.308732	18 28 36.82	+50 55 15.6	16.92c		T05
C/2019 O3	2021 08 30.311933	18 28 36.70	+50 55 15.5	17.66c		T05
C/2019 O3	2021 08 30.318409	18 28 36.50	+50 55 13.5	16.85c		T05
C/2019 O3	2021 08 30.330317	18 28 36.18	+50 55 11.7	16.93c		T05
C/2019 O3	2021 09 01.343917	18 27 39.70	+50 49 25.5	17.56o		T08
C/2019 O3	2021 09 01.347171	18 27 39.67	+50 49 24.9	16.32o		T08
C/2019 O3	2021 09 01.348596	18 27 39.71	+50 49 26.6	17.53o		T08
C/2019 O3	2021 09 01.349055	18 27 39.71	+50 49 26.3	17.41o		T08
C/2019 O3	2021 09 01.351820	18 27 39.65	+50 49 25.0	16.56o		T08
C/2019 O3	2021 09 01.352280	18 27 39.67	+50 49 24.9	16.47o		T08
C/2019 O3	2021 09 01.357368	18 27 39.50	+50 49 24.1	16.55o		T08
C/2019 O3	2021 09 01.357829	18 27 39.46	+50 49 24.3	16.61o		T08
C/2019 O3	2021 09 01.364299	18 27 39.28	+50 49 22.2	16.38o		T08
C/2019 O3	2021 09 01.368931	18 27 39.18	+50 49 21.8	16.40o		T08
C/2019 O3	2021 09 01.371691	18 27 39.18	+50 49 22.4	16.80o		T08
C/2019 O3	2021 09 01.85357	18 27 26.03	+50 47 56.3	17.2 N	K	A77
C/2019 O3	2021 09 01.86130	18 27 25.84	+50 47 55.0	17.1 N	K	A77
C/2019 O3	2021 09 01.86880	18 27 25.57	+50 47 53.7	17.2 N	K	A77
C/2019 O3	2021 09 03.88259	18 26 33.18	+50 41 51.6	17.1 T		K77
C/2019 O3	2021 09 03.89759	18 26 32.79	+50 41 48.9	17.0 T		K77
C/2019 O3	2021 09 05.283692	18 25 58.34	+50 37 34.4	16.50o		T08
C/2019 O3	2021 09 05.287377	18 25 58.25	+50 37 34.4	17.36o		T08
C/2019 O3	2021 09 05.293368	18 25 58.10	+50 37 32.6	16.62o		T08
C/2019 O3	2021 09 05.297056	18 25 58.04	+50 37 32.0	16.80o		T08
C/2019 O3	2021 09 05.300283	18 25 57.96	+50 37 31.3	16.47o		T08
C/2019 O3	2021 09 05.305376	18 25 57.82	+50 37 30.3	16.49o		T08
C/2019 O3	2021 09 05.309982	18 25 57.72	+50 37 29.4	16.43o		T08
C/2019 O3	2021 09 05.322433	18 25 57.40	+50 37 27.1	16.57o		T08
C/2019 O3	2021 09 06.89312	18 25 20.22	+50 32 30.7	16.8 T		C23
C/2019 O3	2021 09 06.89745	18 25 20.07	+50 32 30.4	17.0 T		C23
C/2019 O3	2021 09 06.90178	18 25 19.99	+50 32 29.4	17.0 T		C23
C/2019 O3	2021 09 06.95913	18 25 18.64	+50 32 18.9	16.8 T	K	970
C/2019 O3	2021 09 06.96243	18 25 18.64	+50 32 17.7	16.8 T	K	970
C/2019 O3	2021 09 06.98090	18 25 18.21	+50 32 14.0	16.4 T	K	I81
C/2019 O3	2021 09 06.98198	18 25 18.17	+50 32 13.9	16.4 T	K	I81
C/2019 O3	2021 09 06.98306	18 25 18.13	+50 32 13.8	16.8 T	K	I81
C/2019 O3	2021 09 07.305770	18 25 10.74	+50 31 12.8	17.67c		T05
C/2019 O3	2021 09 07.308544	18 25 10.68	+50 31 12.4	17.58c		T05
C/2019 O3	2021 09 07.314459	18 25 10.55	+50 31 10.2	16.80c		T05
C/2019 O3	2021 09 07.325572	18 25 10.31	+50 31 07.8	16.72c		T05
C/2019 O3	2021 09 07.92384	18 24 56.81	+50 29 13.7	17.1 T	K	970
C/2019 O3	2021 09 07.92799	18 24 56.70	+50 29 12.8	16.9 T	K	970
C/2019 O3	2021 09 08.01219	18 24 54.83	+50 28 56.5	16.8 T	K	I81
C/2019 O3	2021 09 08.01431	18 24 54.79	+50 28 56.1	16.8 T	K	I81
C/2019 O3	2021 09 08.01641	18 24 54.73	+50 28 55.8	16.8 T	K	I81
C/2019 O3	2021 09 08.77376	18 24 38.14	+50 26 29.0	17.1 T	K	A71
C/2019 O3	2021 09 08.77818	18 24 38.06	+50 26 27.8	17.1 T	K	A71
C/2019 O3	2021 09 08.78259	18 24 37.95	+50 26 27.1	17.2 T	K	A71
C/2019 O3	2021 09 09.94063	18 24 13.30	+50 22 39.7	17.8 T		A98
C/2019 O3	2021 09 09.94634	18 24 13.26	+50 22 38.9	17.0 T		A98
C/2019 O3	2021 09 09.95206	18 24 13.09	+50 22 37.7	17.6 T		A98
C/2019 O3	2021 09 09.95492	18 24 13.07	+50 22 36.7	17.2 T		A98
C/2019 O3	2021 09 11.305002	18 23 45.78	+50 18 09.6	17.10c		T05
C/2019 O3	2021 09 11.308664	18 23 45.70	+50 18 09.0	17.71c		T05

C/2019 O3	2021 09 11.314634	18 23 45.57	+50 18 07.6	16.93c	T05
C/2019 O3	2021 09 11.324795	18 23 45.41	+50 18 05.0	16.79c	T05
C/2019 O3	2021 09 11.86713	18 23 34.80	+50 16 17.4	16.9 T	Z57
C/2019 O3	2021 09 11.87002	18 23 34.77	+50 16 16.6	17.0 T	Z57
C/2019 O3	2021 09 11.87291	18 23 34.74	+50 16 16.4	17.0 T	Z57
C/2019 O3	2021 09 11.87580	18 23 34.67	+50 16 15.7	17.0 T	Z57
C/2019 O3	2021 09 11.87870	18 23 34.59	+50 16 15.3	17.1 T	Z57
C/2019 O3	2021 09 11.88160	18 23 34.54	+50 16 13.7	17.2 T	Z57
C/2019 O3	2021 09 11.93273	18 23 33.60	+50 16 04.7	18.1 T	K L47
C/2019 O3	2021 09 11.93993	18 23 33.45	+50 16 03.1	17.6 T	K L47
C/2019 O3	2021 09 12.239763	18 23 27.719	+50 15 03.49	18.23w	F52
C/2019 O3	2021 09 12.253378	18 23 27.400	+50 15 00.19	18.40w	F52
C/2019 O3	2021 09 12.266205	18 23 27.197	+50 14 58.10	18.27w	F52
C/2019 O3	2021 09 12.278969	18 23 26.905	+50 14 55.10	18.46w	F52
C/2019 O3	2021 09 13.262852	18 23 08.68	+50 11 35.6	17.20o	T08
C/2019 O3	2021 09 13.266106	18 23 08.62	+50 11 34.7	17.25o	T08
C/2019 O3	2021 09 13.273014	18 23 08.50	+50 11 32.3	16.38o	T08
C/2019 O3	2021 09 13.282739	18 23 08.30	+50 11 31.1	17.02o	T08
C/2019 O3	2021 09 13.285042	18 23 08.25	+50 11 30.2	16.31o	T08
C/2019 O3	2021 09 13.290138	18 23 08.21	+50 11 28.5	16.24o	T08
C/2019 O3	2021 09 13.300281	18 23 07.99	+50 11 26.6	16.24o	T08
C/2019 O3	2021 09 13.93285	18 22 56.60	+50 09 18.8	16.9 T	K I81
C/2019 O3	2021 09 13.93507	18 22 56.56	+50 09 18.3	16.9 T	K I81
C/2019 O3	2021 09 13.93802	18 22 56.51	+50 09 17.6	16.5 T	K I81
C/2019 O3	2021 09 15.91411	18 22 23.00	+50 02 32.4	16.7 T	K 970
C/2019 O3	2021 09 15.91866	18 22 22.90	+50 02 31.6	16.8 T	K 970
C/2019 O3	2021 09 15.95944	18 22 22.18	+50 02 21.4	17.3 T	C23
C/2019 O3	2021 09 15.96377	18 22 22.16	+50 02 21.9	17.0 T	C23
C/2019 O3	2021 09 15.96809	18 22 22.10	+50 02 20.7	17.0 T	C23
C/2019 O3	2021 09 16.93190	18 22 06.87	+49 59 01.5	17.0 T	K 970
C/2019 O3	2021 09 16.93602	18 22 06.79	+49 59 01.0	16.9 T	K 970
C/2019 O3	2021 09 16.99612	18 22 05.90	+49 58 49.0	17.3 T	K Z10
C/2019 O3	2021 09 17.00164	18 22 05.81	+49 58 47.6	17.2 T	K Z10
C/2019 O3	2021 09 17.00716	18 22 05.74	+49 58 46.2	17.2 T	K Z10
C/2019 O3	2021 09 17.93975	18 21 51.71	+49 55 31.9	17.0 T	K 970
C/2019 O3	2021 09 17.94414	18 21 51.64	+49 55 31.2	16.9 T	K 970
C/2019 O3	2021 09 18.337723	18 21 45.912	+49 54 10.27	18.06i	F51
C/2019 O3	2021 09 18.351128	18 21 45.681	+49 54 07.09	18.25i	F51
C/2019 O3	2021 09 18.363431	18 21 45.556	+49 54 05.01	17.64i	F51
C/2019 O3	2021 09 19.278832	18 21 32.78	+49 50 52.2	16.84o	T05
C/2019 O3	2021 09 19.281605	18 21 32.71	+49 50 52.0	16.98o	T05
C/2019 O3	2021 09 19.287101	18 21 32.68	+49 50 50.7	17.41o	T05
C/2019 O3	2021 09 19.297753	18 21 32.51	+49 50 48.3	16.50o	T05
C/2019 O3	2021 09 19.80859	18 21 25.57	+49 49 01.6	17.6 T	K L47
C/2019 O3	2021 09 19.81657	18 21 25.53	+49 48 57.2	18.0 T	K L47

C/2019 S4 (Lemmon)

C/2019 S4	2021 05 21.147662	16 52 35.80	+27 21 14.4	19.9 T	KW62
C/2019 S4	2021 05 21.159132	16 52 35.00	+27 21 11.5	22.4 T	KW62
C/2019 S4	2021 05 21.170602	16 52 34.19	+27 21 08.8	19.6 T	KW62
C/2019 S4	2021 09 12.228818	15 53 01.573	+09 03 31.78	23.0 T	29 568
C/2019 S4	2021 09 12.232806	15 53 01.645	+09 03 29.59	23.1 T	29 568
C/2019 S4	2021 09 12.236806	15 53 01.677	+09 03 27.21	22.8 T	29 568
C/2019 S4	2021 09 12.240792	15 53 01.718	+09 03 24.97	23.9 T	29 568

A/2019 T1

A/2019 T1	2021 08 12.274057	14 55 58.159	+30 53 38.95	20.59w	F51
A/2019 T1	2021 08 12.286793	14 55 57.837	+30 53 28.81	20.70w	F51
A/2019 T1	2021 08 12.299578	14 55 57.508	+30 53 18.53	20.69w	F51
A/2019 T1	2021 08 12.312377	14 55 57.181	+30 53 08.38	20.76w	F51

C/2019 T3 (ATLAS)

C/2019 T3	2021 08 05.666549	22 40 42.26	+44 22 06.8	18.1 T	900
C/2019 T3	2021 08 05.673553	22 40 41.88	+44 22 04.3	17.6 T	900
C/2019 T3	2021 08 06.472085	22 39 53.18	+44 18 29.2	16.43o	T05
C/2019 T3	2021 08 06.474831	22 39 53.00	+44 18 28.7	16.37o	T05
C/2019 T3	2021 08 06.477576	22 39 52.83	+44 18 27.8	16.60o	T05
C/2019 T3	2021 08 06.482609	22 39 52.46	+44 18 26.5	17.57o	T05
C/2019 T3	2021 08 06.94683	22 39 23.84	+44 16 18.5	18.1 T	K L47
C/2019 T3	2021 08 06.96047	22 39 23.14	+44 16 14.5	17.9 T	K L47
C/2019 T3	2021 08 07.87907	22 38 26.55	+44 11 52.6	17.4 T	K L47
C/2019 T3	2021 08 07.92502	22 38 23.78	+44 11 37.1	16.6 T	K L47
C/2019 T3	2021 08 08.465308	22 37 50.28	+44 09 00.3	16.78c	T08
C/2019 T3	2021 08 08.467634	22 37 50.14	+44 08 59.5	16.77c	T08
C/2019 T3	2021 08 08.470400	22 37 49.98	+44 08 59.0	16.84c	T08
C/2019 T3	2021 08 08.476864	22 37 49.56	+44 08 56.5	16.68c	T08
C/2019 T3	2021 08 08.858381	22 37 25.88	+44 07 02.4	16.9 T	K L54
C/2019 T3	2021 08 08.873233	22 37 24.89	+44 06 57.7	16.7 T	K L54
C/2019 T3	2021 08 08.888076	22 37 23.96	+44 06 52.7	16.9 T	K L54
C/2019 T3	2021 08 10.433556	22 35 47.52	+43 58 52.2	16.90o	T05
C/2019 T3	2021 08 10.438660	22 35 47.14	+43 58 51.0	17.54o	T05
C/2019 T3	2021 08 10.444190	22 35 46.84	+43 58 48.8	16.45o	T05
C/2019 T3	2021 08 11.87768	22 34 16.67	+43 50 54.3	18.3 T	K L47
C/2019 T3	2021 08 11.90021	22 34 15.31	+43 50 48.0	16.9 T	C23
C/2019 T3	2021 08 11.90454	22 34 14.98	+43 50 46.7	17.3 T	C23
C/2019 T3	2021 08 11.90716	22 34 14.76	+43 50 46.2	17.2 T	K L47
C/2019 T3	2021 08 11.90887	22 34 14.69	+43 50 45.3	17.1 T	C23
C/2019 T3	2021 08 12.476226	22 33 38.82	+43 47 31.7	16.81c	T08
C/2019 T3	2021 08 12.481448	22 33 38.47	+43 47 29.9	16.86c	T08
C/2019 T3	2021 08 12.485138	22 33 38.26	+43 47 28.5	16.81c	T08
C/2019 T3	2021 08 12.82625	22 33 16.95	+43 45 27.9	18.4 T	K L47
C/2019 T3	2021 08 12.85398	22 33 14.83	+43 45 20.4	17.9 T	K L47
C/2019 T3	2021 08 12.88836	22 33 12.75	+43 45 07.4	17.1 T	K77
C/2019 T3	2021 08 12.89242	22 33 12.66	+43 45 05.6	17.9 T	K L47
C/2019 T3	2021 08 12.90326	22 33 11.75	+43 45 03.2	16.7 T	K77
C/2019 T3	2021 08 13.04007	22 33 03.05	+43 44 14.6	17.0 T	K 970
C/2019 T3	2021 08 13.04425	22 33 02.76	+43 44 13.1	16.8 T	K 970
C/2019 T3	2021 08 13.88307	22 32 09.58	+43 39 14.2		K 204
C/2019 T3	2021 08 13.97312	22 32 03.89	+43 38 40.8	16.7 T	K 204
C/2019 T3	2021 08 14.366256	22 31 38.90	+43 36 17.2	16.56o	T05
C/2019 T3	2021 08 14.382933	22 31 37.76	+43 36 11.2	17.46o	T05
C/2019 T3	2021 08 14.389662	22 31 37.34	+43 36 08.6	17.43o	T05
C/2019 T3	2021 08 14.395936	22 31 37.00	+43 36 06.4	16.56o	T05
C/2019 T3	2021 08 14.457351	22 31 33.04	+43 35 44.2	16.51o	T05
C/2019 T3	2021 08 14.463012	22 31 32.62	+43 35 42.0	17.62o	T05
C/2019 T3	2021 08 14.465298	22 31 32.48	+43 35 41.2	17.63o	T05

C/2019 T3	2021 08 14.93302	22 31 02.58	+43 32 46.2	16.7 T		B96
C/2019 T3	2021 08 14.93703	22 31 02.44	+43 32 44.3	17.0 T		C23
C/2019 T3	2021 08 14.93792	22 31 02.30	+43 32 43.1	16.8 T		B96
C/2019 T3	2021 08 14.94280	22 31 02.09	+43 32 42.4	17.1 T		C23
C/2019 T3	2021 08 14.94281	22 31 01.94	+43 32 42.2	16.9 T		B96
C/2019 T3	2021 08 14.94857	22 31 01.73	+43 32 40.0	17.0 T		C23
C/2019 T3	2021 08 16.478422	22 29 23.93	+43 22 52.3	17.70c		T08
C/2019 T3	2021 08 16.480264	22 29 23.81	+43 22 51.6	17.63c		T08
C/2019 T3	2021 08 16.481650	22 29 23.75	+43 22 50.9	17.68c		T08
C/2019 T3	2021 08 16.483959	22 29 23.55	+43 22 50.1	17.65c		T08
C/2019 T3	2021 08 16.487644	22 29 23.37	+43 22 48.5	16.80c		T08
C/2019 T3	2021 08 16.490410	22 29 23.16	+43 22 47.3	16.62c		T08
C/2019 T3	2021 08 16.492716	22 29 23.00	+43 22 46.8	17.72c		T08
C/2019 T3	2021 08 16.495494	22 29 22.81	+43 22 45.5	17.72c		T08
C/2019 T3	2021 08 16.497798	22 29 22.72	+43 22 44.2	16.80c		T08
C/2019 T3	2021 08 16.500561	22 29 22.54	+43 22 43.4	16.74c		T08
C/2019 T3	2021 08 16.501020	22 29 22.54	+43 22 43.9	16.49c		T08
C/2019 T3	2021 08 16.536446	22 29 20.34	+43 22 30.0	16.54c		T08
C/2019 T3	2021 08 17.95405	22 27 49.41	+43 12 57.3	17.1 N		C35
C/2019 T3	2021 08 17.95571	22 27 49.26	+43 12 57.0	17.0 N		C35
C/2019 T3	2021 08 17.95736	22 27 49.18	+43 12 56.0	16.9 N		C35
C/2019 T3	2021 08 20.419770	22 25 11.17	+42 55 24.7	16.68o		T08
C/2019 T3	2021 08 20.421609	22 25 11.06	+42 55 23.8	17.51o		T08
C/2019 T3	2021 08 20.425292	22 25 10.79	+42 55 22.3	17.38o		T08
C/2019 T3	2021 08 20.435146	22 25 10.14	+42 55 17.8	17.43o		T08
C/2019 T3	2021 08 22.403764	22 23 03.83	+42 40 23.9	16.43o		T05
C/2019 T3	2021 08 22.409251	22 23 03.48	+42 40 21.2	16.40o		T05
C/2019 T3	2021 08 22.414747	22 23 03.05	+42 40 18.9	17.48o		T05
C/2019 T3	2021 08 24.276134	22 21 03.83	+42 25 30.6			01 658
C/2019 T3	2021 08 24.279479	22 21 03.61	+42 25 29.0			01 658
C/2019 T3	2021 08 24.283947	22 21 03.33	+42 25 26.8			01 658
C/2019 T3	2021 08 24.288403	22 21 03.03	+42 25 24.7			01 658
C/2019 T3	2021 08 24.291748	22 21 02.80	+42 25 23.0			01 658
C/2019 T3	2021 08 26.399043	22 18 48.31	+42 07 48.1	17.51o		T05
C/2019 T3	2021 08 26.404872	22 18 47.94	+42 07 45.1	17.41o		T05
C/2019 T3	2021 08 26.461440	22 18 44.28	+42 07 15.9	17.51o		T05
C/2019 T3	2021 08 27.95696	22 17 09.37	+41 54 12.6	17.1 T	K	I81
C/2019 T3	2021 08 27.95874	22 17 09.26	+41 54 11.3	17.2 T	K	I81
C/2019 T3	2021 08 27.96052	22 17 09.14	+41 54 09.9	15.7 T	K	I81
C/2019 T3	2021 08 28.397409	22 16 41.56	+41 50 18.3	16.38o		T08
C/2019 T3	2021 08 28.399256	22 16 41.42	+41 50 17.7	16.51o		T08
C/2019 T3	2021 08 28.402150	22 16 41.23	+41 50 15.8	16.57o		T08
C/2019 T3	2021 08 28.422749	22 16 39.88	+41 50 05.2	17.56o		T08
C/2019 T3	2021 08 28.64434	22 16 25.95	+41 48 04.6	16.1 T		349
C/2019 T3	2021 08 28.67986	22 16 23.66	+41 47 45.5			349
C/2019 T3	2021 08 30.60041	22 14 22.83	+41 30 08.5			Q11
C/2019 T3	2021 08 30.61101	22 14 22.13	+41 30 02.7			Q11
C/2019 T3	2021 08 30.62091	22 14 21.52	+41 29 57.0	16.4 T		Q11
C/2019 T3	2021 08 31.89580	22 13 01.98	+41 17 52.1	16.4 T	K	204
C/2019 T3	2021 08 31.96640	22 12 57.56	+41 17 09.9			K 204
C/2019 T3	2021 08 31.98619	22 12 56.32	+41 16 58.1	16.8 T	K	I81
C/2019 T3	2021 08 31.98800	22 12 56.21	+41 16 57.1	16.8 T	K	I81
C/2019 T3	2021 08 31.98980	22 12 56.08	+41 16 56.1	16.8 T	K	I81
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C/2019 T3	2021 09 01.390751	22 12 31.23	+41 13 04.7	17.48o		T08
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C/2019 T3	2021 09 01.92153	22 11 58.37	+41 07 53.4	16.7 T	K	C10
C/2019 T3	2021 09 01.92734	22 11 58.01	+41 07 50.0	16.7 T	K	C10
C/2019 T3	2021 09 01.93316	22 11 57.65	+41 07 46.5	16.7 T	K	C10
C/2019 T3	2021 09 02.92244	22 10 56.63	+40 57 59.9	16.9 T		G06
C/2019 T3	2021 09 02.92603	22 10 56.42	+40 57 57.5	17.1 T		G06
C/2019 T3	2021 09 02.95119	22 10 54.80	+40 57 42.6	16.9 T		G06
C/2019 T3	2021 09 04.98656	22 08 50.68	+40 37 00.7	16.7 T	K	970
C/2019 T3	2021 09 04.99471	22 08 50.22	+40 36 55.7	16.7 T	K	970
C/2019 T3	2021 09 05.371654	22 08 27.55	+40 33 01.8	16.15o		T08
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C/2019 T3	2021 09 05.378098	22 08 27.08	+40 32 57.4	17.44o		T08
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C/2019 T3	2021 09 06.92764	22 06 54.12	+40 16 35.4	16.7 T	K	I81
C/2019 T3	2021 09 06.92980	22 06 54.00	+40 16 34.6	16.6 T	K	I81
C/2019 T3	2021 09 07.93309	22 05 54.46	+40 05 46.6	16.8 T	K	970
C/2019 T3	2021 09 07.93727	22 05 54.23	+40 05 43.6	16.9 T	K	970
C/2019 T3	2021 09 08.01408	22 05 49.63	+40 04 53.8	17.0 T		C23
C/2019 T3	2021 09 08.01697	22 05 49.50	+40 04 51.5	17.0 T		C23
C/2019 T3	2021 09 08.02130	22 05 49.22	+40 04 48.9	16.7 T		C23
C/2019 T3	2021 09 08.02362	22 05 49.09	+40 04 47.5	16.8 T	K	I81
C/2019 T3	2021 09 08.02573	22 05 48.96	+40 04 46.1	16.8 T	K	I81
C/2019 T3	2021 09 08.02784	22 05 48.83	+40 04 44.8	16.8 T	K	I81
C/2019 T3	2021 09 09.55402	22 04 19.50	+39 47 59.4	16.3 T		Q11
C/2019 T3	2021 09 09.56391	22 04 18.92	+39 47 52.7			Q11
C/2019 T3	2021 09 09.57169	22 04 18.47	+39 47 47.3			Q11
C/2019 T3	2021 09 09.97118	22 03 55.15	+39 43 18.8	16.8 T		A98
C/2019 T3	2021 09 09.97547	22 03 54.95	+39 43 15.8	17.2 T		A98
C/2019 T3	2021 09 09.97833	22 03 54.76	+39 43 13.4	17.2 T		A98
C/2019 T3	2021 09 09.98119	22 03 54.58	+39 43 12.6	17.1 T		A98
C/2019 T3	2021 09 09.98977	22 03 54.29	+39 43 06.0	17.4 T		A98
C/2019 T3	2021 09 11.463044	22 02 29.61	+39 26 28.9	16.71c		T05
C/2019 T3	2021 09 11.466251	22 02 29.41	+39 26 26.3	16.73c		T05
C/2019 T3	2021 09 11.471790	22 02 29.06	+39 26 23.2	17.72c		T05
C/2019 T3	2021 09 11.506921	22 02 27.06	+39 25 58.7	16.77c		T05
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C/2019 T3	2021 09 12.00182	22 01 58.95	+39 20 19.2	17.4 T	K	Z10
C/2019 T3	2021 09 12.00805	22 01 58.61	+39 20 14.7	17.4 T	K	Z10
C/2019 T3	2021 09 12.148021	22 01 50.63	+39 18 37.7			G96
C/2019 T3	2021 09 12.152814	22 01 50.48	+39 18 34.7	17.07G		G96
C/2019 T3	2021 09 12.157619	22 01 50.24	+39 18 31.1	16.87G		G96
C/2019 T3	2021 09 12.162425	22 01 49.98	+39 18 27.8	16.81G		G96
C/2019 T3	2021 09 13.275637	22 00 47.35	+39 05 34.0			01 658
C/2019 T3	2021 09 13.277870	22 00 47.23	+39 05 32.5			01 658
C/2019 T3	2021 09 13.280093	22 00 47.10	+39 05 30.9			01 658
C/2019 T3	2021 09 13.282326	22 00 46.98	+39 05 29.4			01 658
C/2019 T3	2021 09 13.284560	22 00 46.85	+39 05 28.0			01 658
C/2019 T3	2021 09 13.89747	22 00 12.83	+38 58 16.0	16.8 T	K	I81
C/2019 T3	2021 09 13.89957	22 00 12.70	+38 58 14.7	17.2 T	K	I81
C/2019 T3	2021 09 13.90168	22 00 12.60	+38 58 13.2	17.1 T	K	I81

C/2019 T3	2021 09 15.364376	21 58 52.278	+38 40 53.66	17.77i		F51
C/2019 T3	2021 09 15.377170	21 58 51.571	+38 40 44.44	17.70i		F51
C/2019 T3	2021 09 15.389988	21 58 50.856	+38 40 35.20	18.02i		F51
C/2019 T3	2021 09 15.402846	21 58 50.161	+38 40 26.06	17.91i		F51
C/2019 T3	2021 09 15.425006	21 58 49.06	+38 40 08.8	16.47o		T05
C/2019 T3	2021 09 15.427831	21 58 48.89	+38 40 06.7	16.40o		T05
C/2019 T3	2021 09 15.433357	21 58 48.63	+38 40 03.1	16.65o		T05
C/2019 T3	2021 09 15.446704	21 58 47.80	+38 39 54.2	17.56o		T05
C/2019 T3	2021 09 15.87939	21 58 24.40	+38 34 40.2	16.8	T	B96
C/2019 T3	2021 09 15.88597	21 58 23.98	+38 34 36.2	16.6	T	B96
C/2019 T3	2021 09 15.89255	21 58 23.66	+38 34 31.1	16.7	T	B96
C/2019 T3	2021 09 15.92334	21 58 22.06	+38 34 09.7	16.9	T	K 970
C/2019 T3	2021 09 15.92750	21 58 21.81	+38 34 06.8	17.0	T	K 970
C/2019 T3	2021 09 15.97021	21 58 19.58	+38 33 35.9	17.0	T	C23
C/2019 T3	2021 09 15.97310	21 58 19.35	+38 33 33.8	17.1	T	C23
C/2019 T3	2021 09 15.97887	21 58 19.06	+38 33 29.7	17.1	T	C23
C/2019 T3	2021 09 17.94869	21 56 34.30	+38 09 31.4	16.9	T	K 970
C/2019 T3	2021 09 17.95286	21 56 34.03	+38 09 28.4	16.9	T	K 970
C/2019 T3	2021 09 18.391220	21 56 11.12	+38 04 04.8	17.41o		T05
C/2019 T3	2021 09 18.401266	21 56 10.63	+38 03 56.9	16.51o		T05
C/2019 T3	2021 09 18.404469	21 56 10.47	+38 03 54.6	16.51o		T05
C/2019 T3	2021 09 18.410872	21 56 10.18	+38 03 49.7	16.17o		T05

C/2019 U5 (PANSTARRS)

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C/2019 U5	2021 08 06.319926	16 23 06.48	+46 28 55.3	16.71o		T05
C/2019 U5	2021 08 06.324563	16 23 06.34	+46 28 53.5	16.34o		T05
C/2019 U5	2021 08 06.325477	16 23 06.25	+46 28 52.5	16.12o		T05
C/2019 U5	2021 08 06.328222	16 23 06.17	+46 28 51.4	16.32o		T05
C/2019 U5	2021 08 06.338314	16 23 05.60	+46 28 45.4	16.12o		T05
C/2019 U5	2021 08 06.84802	16 22 41.80	+46 24 10.2	16.9	T	K L47
C/2019 U5	2021 08 06.86513	16 22 41.08	+46 24 00.9	17.1	T	K L47
C/2019 U5	2021 08 06.99624	16 22 34.83	+46 22 50.5			L85
C/2019 U5	2021 08 07.04542	16 22 32.72	+46 22 22.9	16.5	T	L85
C/2019 U5	2021 08 08.312782	16 21 35.30	+46 10 55.6	16.46c		T08
C/2019 U5	2021 08 08.316009	16 21 35.15	+46 10 53.8	16.51c		T08
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C/2019 U5	2021 08 08.88112	16 21 10.11	+46 05 43.4	16.5	N	Z55
C/2019 U5	2021 08 08.88253	16 21 10.00	+46 05 42.2	16.6	N	Z55
C/2019 U5	2021 08 08.88395	16 21 09.93	+46 05 41.6	16.6	N	Z55
C/2019 U5	2021 08 10.303514	16 20 08.65	+45 52 38.7	16.11o		T05
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C/2019 U5	2021 08 10.99030	16 19 39.72	+45 46 15.3	16.6	T	C23
C/2019 U5	2021 08 10.99318	16 19 39.57	+45 46 13.3	16.6	T	C23
C/2019 U5	2021 08 11.83472	16 19 05.02	+45 38 22.9	16.7	N	K A77
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C/2019 U5	2021 08 12.307633	16 18 45.86	+45 33 57.2	16.57c		T08
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C/2019 U5	2021 08 12.312751	16 18 45.66	+45 33 54.4	16.52c		T08
C/2019 U5	2021 08 12.314147	16 18 45.60	+45 33 53.7	16.57c		T08
C/2019 U5	2021 08 12.320147	16 18 45.37	+45 33 50.3	16.50c		T08
C/2019 U5	2021 08 12.328548	16 18 45.01	+45 33 45.4	16.48c		T08
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C/2019 U5	2021 08 13.89707	16 17 43.36	+45 18 56.3	16.1	T	B96
C/2019 U5	2021 08 13.90200	16 17 43.17	+45 18 53.5	16.2	T	B96
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C/2019 U5	2021 08 13.91360	16 17 42.73	+45 18 47.2	16.5	T	C23
C/2019 U5	2021 08 13.91793	16 17 42.57	+45 18 44.8	16.5	T	C23
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C/2019 U5	2021 08 14.276761	16 17 28.91	+45 15 21.4	16.20o		T05
C/2019 U5	2021 08 14.284094	16 17 28.61	+45 15 17.0	16.92o		T05
C/2019 U5	2021 08 14.295591	16 17 28.19	+45 15 10.6	16.20o		T05
C/2019 U5	2021 08 14.87714	16 17 06.28	+45 09 36.9	16.0	T	B96
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C/2019 U5	2021 08 16.86729	16 15 54.12	+44 50 32.1	16.0	T	B96
C/2019 U5	2021 08 16.87220	16 15 53.94	+44 50 29.9	16.2	T	B96
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C/2019 U5	2021 08 16.89093	16 15 53.31	+44 50 19.4	16.6	T	C23
C/2019 U5	2021 08 16.89526	16 15 53.13	+44 50 16.8	16.7	T	C23
C/2019 U5	2021 08 16.91708	16 15 52.38	+44 50 05.3	16.7	N	I72
C/2019 U5	2021 08 16.93608	16 15 51.71	+44 49 53.8	16.6	N	I72
C/2019 U5	2021 08 16.95472	16 15 51.12	+44 49 42.4	16.8	N	I72
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C/2019 U5	2021 08 22.267438	16 12 59.93	+43 57 58.4	16.91o		T05
C/2019 U5	2021 08 22.280724	16 12 59.52	+43 57 50.8	16.16o		T05
C/2019 U5	2021 08 23.91141	16 12 12.92	+43 41 45.9	16.6	T	C23
C/2019 U5	2021 08 23.91573	16 12 12.82	+43 41 43.3	16.5	T	C23
C/2019 U5	2021 08 23.92006	16 12 12.75	+43 41 40.9	16.5	T	C23
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C/2019 U5	2021 08 25.97366	16 11 18.09	+43 21 22.5	15.8	T	29G40
C/2019 U5	2021 08 25.97931	16 11 17.93	+43 21 19.0	16.5	T	29G40
C/2019 U5	2021 08 25.98497	16 11 17.75	+43 21 15.7	16.3	T	29G40
C/2019 U5	2021 08 26.212710	16 11 12.03	+43 19 00.6	16.28G		703
C/2019 U5	2021 08 26.218171	16 11 11.89	+43 18 57.3	16.27G		703
C/2019 U5	2021 08 26.223637	16 11 11.75	+43 18 54.0	16.23G		703
C/2019 U5	2021 08 26.229100	16 11 11.63	+43 18 50.5	16.32G		703
C/2019 U5	2021 08 26.268471	16 11 10.61	+43 18 27.7	16.12o		T05
C/2019 U5	2021 08 26.271674	16 11 10.51	+43 18 25.8	16.88o		T05
C/2019 U5	2021 08 26.278090	16 11 10.34	+43 18 21.9	16.85o		T05
C/2019 U5	2021 08 26.288736	16 11 10.09	+43 18 15.6	16.12o		T05
C/2019 U5	2021 08 26.98541	16 10 54.79	+43 12 09.7	16.5	N	445
C/2019 U5	2021 08 26.99446	16 10 54.54	+43 12 05.4	16.6	N	445
C/2019 U5	2021 08 27.151417	16 10 48.68	+43 09 41.8	16.28G		G96
C/2019 U5	2021 08 27.157092	16 10 48.54	+43 09 38.3	16.32G		G96
C/2019 U5	2021 08 27.162753	16 10 48.39	+43 09 35.0	16.31G		G96
C/2019 U5	2021 08 27.168420	16 10 48.24	+43 09 31.6	16.22G		G96
C/2019 U5	2021 08 27.189179	16 10 47.80	+43 09 19.5	16.24G		703
C/2019 U5	2021 08 27.194546	16 10 47.69	+43 09 16.6	16.22G		703
C/2019 U5	2021 08 27.199906	16 10 47.55	+43 09 12.9	16.26G		703
C/2019 U5	2021 08 27.205264	16 10 47.43	+43 09 09.8	16.38G		703
C/2019 U5	2021 08 27.90985	16 10 30.49	+43 02 08.8	16.4	T	K I81
C/2019 U5	2021 08 27.91130	16 10 30.45	+43 02 07.9	16.6	T	K I81
C/2019 U5	2021 08 27.91273	16 10 30.42	+43 02 07.1	16.5	T	K I81
C/2019 U5	2021 08 28.253874	16 10 22.43	+42 58 44.8	16.13o		T08
C/2019 U5	2021 08 28.258503	16 10 22.31	+42 58 42.0	16.14o		T08
C/2019 U5	2021 08 28.264058	16 10 22.17	+42 58 38.6	16.18o		T08
C/2019 U5	2021 08 28.274240	16 10 21.93	+42 58 32.5	16.18o		T08
C/2019 U5	2021 08 29.51050	16 09 53.93	+42 46 14.1			K 367
C/2019 U5	2021 08 29.51212	16 09 53.90	+42 46 13.1			K 367
C/2019 U5	2021 08 29.51374	16 09 53.88	+42 46 12.1	15.9	T	K 367
C/2019 U5	2021 08 29.52000	16 09 53.72	+42 46 08.7	15.9	T	Q11
C/2019 U5	2021 08 29.52919	16 09 53.51	+42 46 03.2			Q11
C/2019 U5	2021 08 29.53696	16 09 53.34	+42 45 58.4			Q11
C/2019 U5	2021 08 30.237931	16 09 38.24	+42 39 00.3	17.09c		T05
C/2019 U5	2021 08 30.241185	16 09 38.19	+42 38 58.5	16.46c		T05
C/2019 U5	2021 08 30.247154	16 09 38.05	+42 38 55.0	16.51c		T05
C/2019 U5	2021 08 30.259106	16 09 37.80	+42 38 47.7	16.44c		T05
C/2019 U5	2021 08 30.86169	16 09 25.11	+42 32 46.6	16.6	T	C23
C/2019 U5	2021 08 30.86602	16 09 25.02	+42 32 44.1	16.6	T	C23
C/2019 U5	2021 08 30.87035	16 09 24.91	+42 32 41.4	16.6	T	C23
C/2019 U5	2021 08 31.85059	16 09 05.15	+42 22 55.9	16.4	T	K L63
C/2019 U5	2021 08 31.85722	16 09 05.00	+42 22 52.2	16.4	T	K L63
C/2019 U5	2021 08 31.86384	16 09 04.87	+42 22 48.0	16.4	T	K L63
C/2019 U5	2021 08 31.92247	16 09 03.72	+42 22 12.5	16.3	T	K I81
C/2019 U5	2021 08 31.92426	16 09 03.68	+42 22 11.5	16.3	T	K I81
C/2019 U5	2021 08 31.92606	16 09 03.65	+42 22 10.3	16.3	T	K I81
C/2019 U5	2021 09 01.271333	16 08 56.91	+42 18 45.4	16.17o		T08
C/2019 U5	2021 09 01.274556	16 08 56.86	+42 18 43.5	16.11o		T08
C/2019 U5	2021 09 01.281032	16 08 56.75	+42 18 39.5	16.17o		T08
C/2019 U5	2021 09 01.298628	16 08 56.38	+42 18 28.7	16.17o		T08
C/2019 U5	2021 09 05.227662	16 07 47.98	+41 39 23.5	16.28o		T08
C/2019 U5	2021 09 05.231832	16 07 47.90	+41 39 21.0	16.16o		T08
C/2019 U5	2021 09 05.238788	16 07 47.80	+41 39 16.8	16.14o		T08
C/2019 U5	2021 09 05.241949	16 07 47.722	+41 39 14.94	17.22w		F52
C/2019 U5	2021 09 05.252607	16 07 47.56	+41 39 08.6	16.16o		T08
C/2019 U5	2021 09 05.252859	16 07 47.544	+41 39 07.93	17.12w		F52
C/2019 U5	2021 09 05.263730	16 07 47.368	+41 39 01.87	17.28w		F52
C/2019 U5	2021 09 05.274613	16 07 47.193	+41 38 54.86	17.19w		F52
C/2019 U5	2021 09 05.82156	16 07 38.85	+41 33 28.4	16.0	T	B96
C/2019 U5	2021 09 05.82649	16 07 38.82	+41 33 25.2	16.0	T	B96
C/2019 U5	2021 09 05.83142	16 07 38.70	+41 33 23.3	16.1	T	B96
C/2019 U5	2021 09 05.85131	16 07 38.44	+41 33 10.9	16.4	T	G06
C/2019 U5	2021 09 05.86208	16 07 38.26	+41 33 04.3	16.3	T	G06
C/2019 U5	2021 09 05.86567	16 07 38.20	+41 33 02.0	16.3	T	G06
C/2019 U5	2021 09 06.87463	16 07 23.56	+41 23 02.3	16.3	T	C23
C/2019 U5	2021 09 06.87751	16 07 23.49	+41 23 00.5	16.5	T	C23
C/2019 U5	2021 09 06.88184	16 07 23.47	+41 22 58.2	16.4	T	C23
C/2019 U5	2021 09 07.226182	16 07 18.67	+41 19 34.1	16.59c		T05
C/2019 U5	2021 09 07.229395	16 07 18.65	+41 19 32.3	16.39c		T05
C/2019 U5	2021 09 07.235852	16 07 18.55	+41 19 28.5	16.51c		T05
C/2019 U5	2021 09 07.97529	16 07 08.64	+41 12 08.0	16.3	T	K I81
C/2019 U5	2021 09 07.97740	16 07 08.61	+41 12 06.8	16.3	T	K I81
C/2019 U5	2021 09 07.97950	16 07 08.58	+41 12 05.5	16.3	T	K I81
C/2019 U5	2021 09 08.153173	16 07 06.33	+41 10 23.7	16.15G		703
C/2019 U5	2021 09 08.158612	16 07 06.27	+41 10 20.5	16.13G		703
C/2019 U5	2021 09 08.164052	16 07 06.20	+41 10 17.2	16.09G		703
C/2019 U5	2021 09 08.169486	16 07 06.12	+41 10 13.9	16.18G		703
C/2019 U5	2021 09 08.172034	16 07 06.14	+41 10 12.9	16.33G		703
C/2019 U5	2021 09 08.177458	16 07 06.06	+41 10 09.6	16.26G		703
C/2019 U5	2021 09 08.182889	16 07 05.98	+41 10 06.3	16.29G		703
C/2019 U5	2021 09 08.188314	16 07 05.93	+41 10 03.0	16.36G		703
C/2019 U5	2021 09 10.82760	16 06 35.07	+40 44 01.0	16.7	T	L79
C/2019 U5	2021 09 10.83078	16 06 35.03	+40 43 59.5	16.7	T	L79
C/2019 U5	2021 09 10.83332	16 06 34.87	+40 43 58.7	16.9	T	L79
C/2019 U5	2021 09 10.860729	16 06 34.64	+40 43 42.9	16.6	T	K G23
C/2019 U5	2021 09 10.874850	16 06 34.49	+40 43 34.9	16.6	T	K G23
C/2019 U5	2021 09 10.888977	16 06 34.37	+40 43 27.0	16.7	T	K G23
C/2019 U5	2021 09 11.239126	16 06 30.71	+40 40 00.3	16.54c		T05
C/2019 U5	2021 09 11.242339	16 06 30.70	+40 39 58.4	16.37c		T05
C/2019 U5	2021 09 11.248762	16 06 30.61	+40 39 54.6	16.45c		T05
C/2019 U5	2021 09 11.260267	16 06 30.50	+40 39 47.8	16.49c		T05
C/2019 U5	2021 09 11.856574	16 06 24.56	+40 33 56.4	16.5	T	K G23
C/2019 U5	2021 09 11.870705	16 06 24.39	+40 33 48.0	16.6	T	K G23
C/2019 U5	2021 09 11.884826	16 06 24.26	+40 33 40.0	16.5	T	K G23
C/2019 U5	2021 09 13.130763	16 06 12.99	+40 21 30.5	16.08G		703
C/2019 U5	2021 09 13.136226	16 06 12.93	+40 21 27.4	16.10G		703
C/2019 U5	2021 09 13.141688	16 06 12.86	+40 21 24.2	16.04G		703

C/2019 U5	2021 09 13.147153	16 06 12.82	+40 21 20.7	16.09G		703
C/2019 U5	2021 09 13.218848	16 06 12.18	+40 20 38.8	16.00o		T08
C/2019 U5	2021 09 13.222997	16 06 12.16	+40 20 36.2	16.60o		T08
C/2019 U5	2021 09 13.229010	16 06 12.13	+40 20 33.0	15.95o		T08
C/2019 U5	2021 09 13.241980	16 06 12.02	+40 20 25.5	15.93o		T08
C/2019 U5	2021 09 14.00672	16 06 05.72	+40 12 56.7	16.4 T	K	I81
C/2019 U5	2021 09 14.00883	16 06 05.70	+40 12 55.4	16.8 T	K	I81
C/2019 U5	2021 09 14.01095	16 06 05.72	+40 12 54.7	16.3 T	K	I81
C/2019 U5	2021 09 15.94090	16 05 52.04	+39 54 13.4	16.7 T		C23
C/2019 U5	2021 09 15.94378	16 05 52.01	+39 54 11.3	16.8 T		C23
C/2019 U5	2021 09 15.94667	16 05 52.01	+39 54 10.2	16.5 T		C23

C/2020 F2 (ATLAS)

C/2020 F2	2021 06 07.50235	14 40 56.20	−07 01 42.2			01Q62
C/2020 F2	2021 06 07.50503	14 40 56.11	−07 01 41.8	17.4 T		01Q62
C/2020 F2	2021 08 06.261297	14 19 58.08	−05 22 36.8	18.10c		T08
C/2020 F2	2021 08 06.264065	14 19 58.00	−05 22 37.2	18.21c		T08
C/2020 F2	2021 08 06.269595	14 19 57.99	−05 22 37.0	17.90c		T08
C/2020 F2	2021 08 06.279757	14 19 57.87	−05 22 36.2	18.55c		T08
C/2020 F2	2021 08 08.249907	14 19 44.18	−05 21 49.5	17.80o		T05
C/2020 F2	2021 08 08.253576	14 19 44.17	−05 21 49.0	17.49o		T05
C/2020 F2	2021 08 08.259101	14 19 44.08	−05 21 49.4	17.58o		T05
C/2020 F2	2021 08 08.273329	14 19 44.00	−05 21 48.1	18.27o		T05
C/2020 F2	2021 08 10.240004	14 19 31.93	−05 21 07.2	18.36c		T08
C/2020 F2	2021 08 10.243232	14 19 31.91	−05 21 07.9	18.59c		T08
C/2020 F2	2021 08 10.248766	14 19 31.89	−05 21 08.1	18.67c		T08
C/2020 F2	2021 08 10.259361	14 19 31.84	−05 21 07.6	18.19c		T08
C/2020 F2	2021 08 16.253844	14 19 05.18	−05 19 52.4	18.28o		T05
C/2020 F2	2021 08 16.257046	14 19 05.13	−05 19 51.5	18.06o		T05
C/2020 F2	2021 08 16.262553	14 19 05.07	−05 19 51.5	17.73o		T05
C/2020 F2	2021 08 16.272639	14 19 05.06	−05 19 51.6	18.39o		T05
C/2020 F2	2021 08 22.264519	14 18 52.71	−05 19 38.2	18.59o		T08
C/2020 F2	2021 08 22.267303	14 18 52.80	−05 19 39.3	17.86o		T08
C/2020 F2	2021 08 22.272835	14 18 52.73	−05 19 37.7	18.55o		T08
C/2020 F2	2021 08 22.282979	14 18 52.67	−05 19 37.7	18.31o		T08

C/2020 F5 (MASTER)

C/2020 F5	2021 08 02.14500	23 28 58.76	−34 00 05.8			01L81
C/2020 F5	2021 08 02.15233	23 28 58.44	−34 00 05.7			01L81
C/2020 F5	2021 08 02.15933	23 28 58.09	−34 00 05.0	16.6 T		01L81
C/2020 F5	2021 08 05.509431	23 26 28.00	−33 56 09.6	15.82c		T08
C/2020 F5	2021 08 05.511274	23 26 27.90	−33 56 09.3	15.21c		T08
C/2020 F5	2021 08 05.518672	23 26 27.57	−33 56 08.8	15.85c		T08
C/2020 F5	2021 08 05.524251	23 26 27.30	−33 56 08.4	15.82c		T08
C/2020 F5	2021 08 06.06811	23 26 02.02	−33 55 26.1	15.6 T		Z10
C/2020 F5	2021 08 06.07539	23 26 01.69	−33 55 25.3	15.6 T		Z10
C/2020 F5	2021 08 06.08350	23 26 01.31	−33 55 24.6	15.6 T		Z10
C/2020 F5	2021 08 06.27537	23 25 52.23	−33 55 07.4	14.8 T		X03
C/2020 F5	2021 08 06.28150	23 25 51.89	−33 55 07.1	14.7 T		X03
C/2020 F5	2021 08 06.28917	23 25 51.51	−33 55 06.4	14.7 T		X03
C/2020 F5	2021 08 06.29686	23 25 51.15	−33 55 05.8	14.7 T		X03
C/2020 F5	2021 08 07.482933	23 24 55.10	−33 53 27.6	14.98o		T05
C/2020 F5	2021 08 07.486134	23 24 54.97	−33 53 27.3	15.64o		T05
C/2020 F5	2021 08 07.491644	23 24 54.70	−33 53 26.8	15.64o		T05
C/2020 F5	2021 08 07.498510	23 24 54.34	−33 53 26.3	14.94o		T05
C/2020 F5	2021 08 07.706553	23 24 44.37	−33 53 08.5	16.5 N		900
C/2020 F5	2021 08 07.713561	23 24 44.03	−33 53 07.5	15.7 N		900
C/2020 F5	2021 08 09.487500	23 23 17.64	−33 50 24.3	15.82c		T08
C/2020 F5	2021 08 09.489341	23 23 17.54	−33 50 24.0	15.79c		T08
C/2020 F5	2021 08 09.494550	23 23 17.28	−33 50 23.6	15.84c		T08
C/2020 F5	2021 08 09.499625	23 23 17.02	−33 50 23.1	15.81c		T08
C/2020 F5	2021 08 10.72793	23 22 15.77	−33 48 20.6	14.3 T		349
C/2020 F5	2021 08 10.74806	23 22 14.71	−33 48 18.9			349
C/2020 F5	2021 08 11.42201	23 21 40.91	−33 47 03.9	16.2 T	K	E94
C/2020 F5	2021 08 11.43528	23 21 40.24	−33 47 02.9	16.2 T	K	E94
C/2020 F5	2021 08 11.44493	23 21 39.73	−33 47 01.8	15.9 T	K	E94
C/2020 F5	2021 08 11.45339	23 21 39.33	−33 47 00.9	15.9 T	K	E94
C/2020 F5	2021 08 11.487489	23 21 37.48	−33 47 00.2	15.60o		T05
C/2020 F5	2021 08 11.489803	23 21 37.35	−33 47 00.0	14.96o		T05
C/2020 F5	2021 08 11.494833	23 21 37.12	−33 46 59.4	15.63o		T05
C/2020 F5	2021 08 11.500327	23 21 36.82	−33 46 58.9	15.61o		T05
C/2020 F5	2021 08 11.60340	23 21 31.50	−33 46 45.4	14.7 T		E89
C/2020 F5	2021 08 11.60801	23 21 31.28	−33 46 44.9	14.8 T		E89
C/2020 F5	2021 08 11.61221	23 21 31.08	−33 46 44.5	15.0 T		E89
C/2020 F5	2021 08 11.61644	23 21 30.86	−33 46 44.0	14.9 T		E89
C/2020 F5	2021 08 12.22922	23 20 59.67	−33 45 37.1	14.8 T	14	W88
C/2020 F5	2021 08 12.23189	23 20 59.54	−33 45 37.0	14.8 T	14	W88
C/2020 F5	2021 08 12.23524	23 20 59.35	−33 45 36.6	14.8 T	14	W88
C/2020 F5	2021 08 12.23870	23 20 59.16	−33 45 36.2	14.9 T	14	W88
C/2020 F5	2021 08 12.24220	23 20 58.98	−33 45 36.0	14.8 T	14	W88
C/2020 F5	2021 08 12.30190	23 20 55.88	−33 45 29.1	15.6 T	23	W88
C/2020 F5	2021 08 12.30704	23 20 55.61	−33 45 28.5	15.5 T	23	W88
C/2020 F5	2021 08 12.32639	23 20 54.59	−33 45 26.9	16.3 T	23	W88
C/2020 F5	2021 08 12.33137	23 20 54.35	−33 45 25.8	16.1 T	23	W88
C/2020 F5	2021 08 13.476661	23 19 55.21	−33 43 15.6	15.16c		T08
C/2020 F5	2021 08 13.478498	23 19 55.11	−33 43 15.4	15.09c		T08
C/2020 F5	2021 08 13.481261	23 19 54.99	−33 43 14.9	15.67c		T08
C/2020 F5	2021 08 13.486321	23 19 54.73	−33 43 14.4	15.69c		T08
C/2020 F5	2021 08 15.00561	23 18 35.16	−33 40 06.6	15.2 T		L27
C/2020 F5	2021 08 15.01598	23 18 34.49	−33 40 04.2	15.2 T		L27
C/2020 F5	2021 08 15.02709	23 18 33.89	−33 40 03.0	15.1 T		L27
C/2020 F5	2021 08 15.452886	23 18 11.34	−33 39 08.3	14.86o		T05
C/2020 F5	2021 08 15.464827	23 18 10.72	−33 39 06.8	15.61o		T05
C/2020 F5	2021 08 15.471747	23 18 10.35	−33 39 05.9	15.60o		T05
C/2020 F5	2021 08 15.474952	23 18 10.18	−33 39 05.5	15.61o		T05
C/2020 F5	2021 08 17.05581	23 16 45.49	−33 35 30.5	15.5 T		Z10
C/2020 F5	2021 08 17.06369	23 16 45.10	−33 35 29.3	15.5 T		Z10
C/2020 F5	2021 08 17.490640	23 16 21.97	−33 34 28.0	15.13c		T08
C/2020 F5	2021 08 17.494005	23 16 21.80	−33 34 27.4	15.49o		T08
C/2020 F5	2021 08 17.497273	23 16 21.63	−33 34 27.0	15.52o		T08
C/2020 F5	2021 08 17.500543	23 16 21.44	−33 34 26.4	15.58o		T08
C/2020 F5	2021 08 17.509982	23 16 20.93	−33 34 25.2	15.60o		T08
C/2020 F5	2021 08 19.417622	23 14 36.91	−33 29 37.2	14.92o		T05
C/2020 F5	2021 08 19.419453	23 14 36.79	−33 29 36.9	14.87o		T05
C/2020 F5	2021 08 19.422199	23 14 36.63	−33 29 36.6	14.85o		T05
C/2020 F5	2021 08 19.428149	23 14 36.31	−33 29 35.5	14.88o		T05
C/2020 F5	2021 08 25.476005	23 08 57.68	−33 11 33.4	14.95o		T08

C/2020 F5	2021 08 25.491271	23 08 56.80	−33 11 30.2	14.94o		T08
C/2020 F5	2021 08 25.494495	23 08 56.63	−33 11 29.6	15.63o		T08
C/2020 F5	2021 08 25.503878	23 08 56.09	−33 11 27.6	15.52o		T08
C/2020 F5	2021 08 27.436855	23 07 06.11	−33 04 44.2	14.73o		T05
C/2020 F5	2021 08 27.439144	23 07 05.96	−33 04 43.6	14.68o		T05
C/2020 F5	2021 08 27.443720	23 07 05.71	−33 04 42.8	14.70o		T05
C/2020 F5	2021 08 27.446464	23 07 05.50	−33 04 42.2	14.76o		T05
C/2020 F5	2021 08 27.490638	23 07 02.99	−33 04 32.7	14.81o		T05
C/2020 F5	2021 08 27.661873	23 06 53.25	−33 03 55.4	15.6	T	900
C/2020 F5	2021 08 27.668880	23 06 52.84	−33 03 53.8	15.6	T	900
C/2020 F5	2021 08 27.97566	23 06 35.33	−33 02 47.2	15.1	T K	L27
C/2020 F5	2021 08 27.98156	23 06 35.05	−33 02 45.9	15.1	T K	L27
C/2020 F5	2021 08 27.98747	23 06 34.71	−33 02 44.9	15.2	T K	L27
C/2020 F5	2021 08 28.61671	23 05 58.72	−33 00 24.5	14.6	T	Q11
C/2020 F5	2021 08 28.62591	23 05 58.19	−33 00 22.2			Q11
C/2020 F5	2021 08 28.63370	23 05 57.72	−33 00 20.5			Q11
C/2020 F5	2021 08 28.65498	23 05 56.50	−33 00 15.7		K	P87
C/2020 F5	2021 08 28.65894	23 05 56.28	−33 00 14.7	14.8	T K	P87
C/2020 F5	2021 08 29.421542	23 05 12.712	−32 57 19.92	16.30i		F51
C/2020 F5	2021 08 29.432088	23 05 12.091	−32 57 17.47	16.32i		F51
C/2020 F5	2021 08 29.433073	23 05 12.03	−32 57 17.3	14.80o		T08
C/2020 F5	2021 08 29.434913	23 05 11.92	−32 57 17.0	14.79o		T08
C/2020 F5	2021 08 29.438597	23 05 11.70	−32 57 16.1	14.76o		T08
C/2020 F5	2021 08 29.442668	23 05 11.476	−32 57 15.02	16.19i		F51
C/2020 F5	2021 08 29.443662	23 05 11.42	−32 57 14.9	14.85o		T08
C/2020 F5	2021 08 29.453226	23 05 10.856	−32 57 12.55	16.26i		F51
C/2020 F5	2021 08 31.447674	23 03 16.68	−32 49 15.1	14.72o		T05
C/2020 F5	2021 08 31.451388	23 03 16.48	−32 49 13.9	15.63o		T05
C/2020 F5	2021 08 31.486705	23 03 14.41	−32 49 05.3	14.72o		T05
C/2020 F5	2021 08 31.491806	23 03 14.11	−32 49 04.0	14.76o		T05
C/2020 F5	2021 09 01.06524	23 02 41.36	−32 46 40.7	15.3	N	J22
C/2020 F5	2021 09 01.06907	23 02 41.13	−32 46 39.6	15.3	N	J22
C/2020 F5	2021 09 01.07296	23 02 40.93	−32 46 38.7	15.3	N	J22
C/2020 F5	2021 09 02.15626	23 01 38.63	−32 42 04.4	17.1	R	Y00
C/2020 F5	2021 09 02.16659	23 01 38.24	−32 41 57.1	16.5	R	Y00
C/2020 F5	2021 09 02.17787	23 01 37.58	−32 41 54.4	16.2	R	Y00
C/2020 F5	2021 09 04.400757	22 59 31.15	−32 31 54.1	15.69c		T05
C/2020 F5	2021 09 04.403066	22 59 31.02	−32 31 53.3	15.68c		T05
C/2020 F5	2021 09 04.406288	22 59 30.82	−32 31 52.5	15.15c		T05
C/2020 F5	2021 09 04.429137	22 59 29.52	−32 31 46.4	15.11c		T05
C/2020 F5	2021 09 05.54325	22 58 26.35	−32 26 27.4	14.8	T K	E89
C/2020 F5	2021 09 05.55101	22 58 25.91	−32 26 24.9	15.1	T K	E89
C/2020 F5	2021 09 05.55848	22 58 25.52	−32 26 23.5	14.9	T K	E89
C/2020 F5	2021 09 06.02559	22 57 59.18	−32 24 10.2	15.3	N	J22
C/2020 F5	2021 09 06.02937	22 57 58.98	−32 24 09.4	15.3	N	J22
C/2020 F5	2021 09 06.03316	22 57 58.72	−32 24 08.0	15.3	N	J22
C/2020 F5	2021 09 08.392951	22 55 46.27	−32 12 15.8	15.11c		T05
C/2020 F5	2021 09 08.395695	22 55 46.12	−32 12 15.0	15.18c		T05
C/2020 F5	2021 09 08.402580	22 55 45.73	−32 12 12.8	15.15c		T05
C/2020 F5	2021 09 08.421098	22 55 44.67	−32 12 07.1	15.09c		T05
C/2020 F5	2021 09 09.577792	22 54 40.48	−32 06 01.4	16.3	N	900
C/2020 F5	2021 09 09.584800	22 54 40.08	−32 05 59.0	15.9	N	900
C/2020 F5	2021 09 09.59755	22 54 39.35	−32 05 55.0			Q11
C/2020 F5	2021 09 09.60815	22 54 38.76	−32 05 51.8			Q11
C/2020 F5	2021 09 09.61664	22 54 38.28	−32 05 49.0	14.6	T	Q11
C/2020 F5	2021 09 10.50267	22 53 49.48	−32 00 59.3	15.0	T	Q38
C/2020 F5	2021 09 10.50385	22 53 49.42	−32 00 59.0	14.9	T	Q38
C/2020 F5	2021 09 10.50543	22 53 49.37	−32 00 58.2	14.9	T	Q38
C/2020 F5	2021 09 10.50699	22 53 49.23	−32 00 57.7	14.3	T	Q38
C/2020 F5	2021 09 12.01645	22 52 26.66	−31 52 36.3	15.6	T	Z10
C/2020 F5	2021 09 12.02267	22 52 26.31	−31 52 34.5	15.6	T	Z10
C/2020 F5	2021 09 12.03044	22 52 25.88	−31 52 31.7	15.5	T	Z10
C/2020 F5	2021 09 14.440846	22 50 16.36	−31 38 29.2	14.64o		T08
C/2020 F5	2021 09 14.444091	22 50 16.19	−31 38 28.1	14.60o		T08
C/2020 F5	2021 09 14.449209	22 50 15.91	−31 38 26.2	14.63o		T08
C/2020 F5	2021 09 14.483734	22 50 14.04	−31 38 13.7	14.59o		T08
C/2020 F5	2021 09 14.87428	22 49 53.47	−31 35 51.9	15.3	T	01C40
C/2020 F5	2021 09 14.88066	22 49 53.11	−31 35 50.6	15.3	T	01C40
C/2020 F5	2021 09 14.88612	22 49 52.78	−31 35 49.4	15.3	T	01C40
C/2020 F5	2021 09 15.58442	22 49 16.04	−31 31 33.8		K	Q23
C/2020 F5	2021 09 15.59139	22 49 15.67	−31 31 31.1	14.4	T K	Q23

C/2020 H6 (ATLAS)

C/2020 H6	2021 08 06.247929	13 46 22.84	+01 47 38.1	16.80c		T08
C/2020 H6	2021 08 06.251157	13 46 22.94	+01 47 39.0	17.38c		T08
C/2020 H6	2021 08 06.256685	13 46 23.07	+01 47 39.9	16.90c		T08
C/2020 H6	2021 08 06.267751	13 46 23.36	+01 47 42.3	16.82c		T08
C/2020 H6	2021 08 08.245309	13 47 16.56	+01 53 54.9	17.31o		T05
C/2020 H6	2021 08 08.248527	13 47 16.66	+01 53 54.4	16.38o		T05
C/2020 H6	2021 08 08.256342	13 47 16.84	+01 53 55.9	16.45o		T05
C/2020 H6	2021 08 08.271494	13 47 17.26	+01 53 58.9	16.51o		T05
C/2020 H6	2021 08 13.87147	13 49 59.53	+02 10 04.3	16.8	T K	C23
C/2020 H6	2021 08 13.87508	13 49 59.65	+02 10 04.0	16.6	T K	C23
C/2020 H6	2021 08 13.87869	13 49 59.77	+02 10 04.3	16.6	T K	C23
C/2020 H6	2021 08 16.246968	13 51 13.26	+02 16 18.8	16.59o		T05
C/2020 H6	2021 08 16.250636	13 51 13.40	+02 16 19.3	16.57o		T05
C/2020 H6	2021 08 16.256131	13 51 13.56	+02 16 19.8	16.42o		T05
C/2020 H6	2021 08 16.268048	13 51 13.94	+02 16 21.9	16.49o		T05
C/2020 H6	2021 08 22.242398	13 54 31.68	+02 30 41.9	16.49o		T08
C/2020 H6	2021 08 22.247016	13 54 31.84	+02 30 42.7	16.61o		T08
C/2020 H6	2021 08 22.253006	13 54 32.06	+02 30 43.5	16.78o		T08
C/2020 H6	2021 08 22.263598	13 54 32.42	+02 30 44.7	16.72o		T08
C/2020 H6	2021 08 23.83647	13 55 27.18	+02 34 13.8	16.1	T K	C23
C/2020 H6	2021 08 23.84153	13 55 27.40	+02 34 13.4	16.3	T K	C23

C/2020 J1 (SONEAR)

C/2020 J1	2021 07 31.45785	13 41 47.56	−07 32 43.7			349
C/2020 J1	2021 07 31.46324	13 41 47.51	−07 32 40.9	13.6	T	349
C/2020 J1	2021 08 06.246550	13 41 06.11	−06 49 04.3	14.74c		T08
C/2020 J1	2021 08 06.254843	13 41 06.08	−06 49 00.9	14.72c		T08
C/2020 J1	2021 08 06.265448	13 41 06.00	−06 48 56.6	14.77c		T08
C/2020 J1	2021 08 09.83667	13 40 57.53	−06 24 52.9	14.8	T	L27
C/2020 J1	2021 08 09.84218	13 40 57.45	−06 24 50.3	14.8	T	L27
C/2020 J1	2021 08 09.84808	13 40 57.45	−06 24 49.1	14.7	T	L27
C/2020 J1	2021 08 16.240566	13 41 10.95	−05 46 31.3	14.59o		T05
C/2020 J1	2021 08 16.243766	13 41 10.92	−05 46 30.0	15.31o		T05
C/2020 J1	2021 08 16.251093	13 41 10.99	−05 46 27.8	14.56o		T05

C/2020 J1	2021 08 16.261167	13 41 10.99	−05 46 24.4	15.36o	T05
C/2020 J1	2021 08 18.45095	13 41 23.34	−05 34 33.7	13.9 T	349
C/2020 J1	2021 08 18.45726	13 41 23.38	−05 34 31.8		349
C/2020 J1	2021 08 22.235033	13 41 52.86	−05 15 25.2	14.52o	T08
C/2020 J1	2021 08 22.238256	13 41 52.89	−05 15 24.2	14.63o	T08
C/2020 J1	2021 08 22.245624	13 41 52.96	−05 15 21.9	14.64o	T08
C/2020 J1	2021 08 22.256229	13 41 53.05	−05 15 18.9	14.60o	T08
C/2020 J1	2021 08 28.44325	13 43 02.05	−04 47 17.1		349
C/2020 J1	2021 08 28.45098	13 43 02.14	−04 47 15.3	14.1 T	349
C/2020 J1	2021 08 29.46325	13 43 15.67	−04 43 01.6		K 367
C/2020 J1	2021 08 29.46487	13 43 15.69	−04 43 01.0		K 367
C/2020 J1	2021 08 29.46609	13 43 15.71	−04 43 00.9	13.4 T	K 367

C/2020 K1 (PANSTARRS)

C/2020 K1	2021 08 06.346164	17 36 04.82	+41 25 08.4	17.39o	T05
C/2020 K1	2021 08 06.347536	17 36 04.86	+41 25 08.1	16.74o	T05
C/2020 K1	2021 08 06.349372	17 36 04.77	+41 25 07.2	16.71o	T05
C/2020 K1	2021 08 06.350747	17 36 04.73	+41 25 06.4	16.76o	T05
C/2020 K1	2021 08 06.356716	17 36 04.54	+41 25 03.0	16.89o	T05
C/2020 K1	2021 08 06.367709	17 36 04.19	+41 24 56.4	16.70o	T05
C/2020 K1	2021 08 06.370462	17 36 04.08	+41 24 54.8	16.72o	T05
C/2020 K1	2021 08 08.339635	17 35 01.74	+41 05 39.4	17.07c	T08
C/2020 K1	2021 08 08.343392	17 35 01.62	+41 05 37.0	17.13c	T08
C/2020 K1	2021 08 08.349853	17 35 01.42	+41 05 33.0	17.15c	T08
C/2020 K1	2021 08 08.360445	17 35 01.07	+41 05 26.8	17.00c	T08
C/2020 K1	2021 08 09.236250	17 34 34.37	+40 56 44.4		01 658
C/2020 K1	2021 08 09.240706	17 34 34.24	+40 56 41.7		01 658
C/2020 K1	2021 08 09.245174	17 34 34.11	+40 56 39.0		01 658
C/2020 K1	2021 08 09.249641	17 34 33.97	+40 56 36.3		01 658
C/2020 K1	2021 08 09.254097	17 34 33.84	+40 56 33.6		01 658
C/2020 K1	2021 08 10.347655	17 34 01.37	+40 45 35.6	17.34o	T05
C/2020 K1	2021 08 10.350875	17 34 01.27	+40 45 33.8	16.77o	T05
C/2020 K1	2021 08 10.356852	17 34 01.09	+40 45 30.0	16.83o	T05
C/2020 K1	2021 08 10.370135	17 34 00.68	+40 45 21.9	16.81o	T05
C/2020 K1	2021 08 10.96237	17 33 43.50	+40 39 21.4	16.9 T	K 970
C/2020 K1	2021 08 10.96655	17 33 43.38	+40 39 18.9	17.1 T	K 970
C/2020 K1	2021 08 10.97675	17 33 43.07	+40 39 12.6	17.0 T	C23
C/2020 K1	2021 08 10.97963	17 33 42.98	+40 39 10.7	17.2 T	C23
C/2020 K1	2021 08 10.98396	17 33 42.83	+40 39 08.2	17.1 T	C23
C/2020 K1	2021 08 11.86314	17 33 17.98	+40 30 10.5	17.2 T	K 215
C/2020 K1	2021 08 11.86443	17 33 17.95	+40 30 09.6	17.2 T	K 215
C/2020 K1	2021 08 11.86572	17 33 17.91	+40 30 08.7	17.3 T	K 215
C/2020 K1	2021 08 12.341085	17 33 04.70	+40 25 16.5	17.17c	T08
C/2020 K1	2021 08 12.343889	17 33 04.62	+40 25 14.8	17.14c	T08
C/2020 K1	2021 08 12.351747	17 33 04.39	+40 25 10.1	17.12c	T08
C/2020 K1	2021 08 12.366495	17 33 03.99	+40 25 00.8	17.12c	T08
C/2020 K1	2021 08 12.98466	17 32 47.08	+40 18 37.4	17.0 T	K 970
C/2020 K1	2021 08 12.98884	17 32 46.98	+40 18 34.7	16.9 T	K 970
C/2020 K1	2021 08 13.315927	17 32 38.179	+40 15 12.50	18.04w	F51
C/2020 K1	2021 08 13.328317	17 32 37.836	+40 15 04.64	17.95w	F51
C/2020 K1	2021 08 13.340775	17 32 37.494	+40 14 56.89	17.69w	F51
C/2020 K1	2021 08 13.84627	17 32 24.11	+40 09 41.3	17.2 N	K A77
C/2020 K1	2021 08 13.85719	17 32 23.88	+40 09 34.7	17.2 N	K A77
C/2020 K1	2021 08 13.86403	17 32 23.58	+40 09 29.2	17.2 T	A98
C/2020 K1	2021 08 13.86832	17 32 23.50	+40 09 26.8	17.3 T	A98
C/2020 K1	2021 08 13.86838	17 32 23.52	+40 09 27.3	17.2 N	K A77
C/2020 K1	2021 08 13.87404	17 32 23.38	+40 09 23.5	17.4 T	A98
C/2020 K1	2021 08 13.87832	17 32 23.20	+40 09 19.9	17.3 T	A98
C/2020 K1	2021 08 13.88262	17 32 23.17	+40 09 18.2	17.4 T	A98
C/2020 K1	2021 08 13.93573	17 32 21.72	+40 08 44.9	17.2 T	C23
C/2020 K1	2021 08 13.93717	17 32 21.66	+40 08 43.9	17.2 T	C23
C/2020 K1	2021 08 13.94150	17 32 21.57	+40 08 41.5	17.1 T	C23
C/2020 K1	2021 08 14.306121	17 32 12.11	+40 04 53.8	16.70o	T05
C/2020 K1	2021 08 14.309333	17 32 12.03	+40 04 51.5	16.70o	T05
C/2020 K1	2021 08 14.314859	17 32 11.89	+40 04 48.0	16.75o	T05
C/2020 K1	2021 08 14.326317	17 32 11.56	+40 04 40.9	16.66o	T05
C/2020 K1	2021 08 14.90396	17 31 56.72	+39 58 36.7	16.5 T	B96
C/2020 K1	2021 08 14.90885	17 31 56.59	+39 58 33.8	16.4 T	B96
C/2020 K1	2021 08 14.91376	17 31 56.50	+39 58 29.6	16.7 T	B96
C/2020 K1	2021 08 16.87954	17 31 08.08	+39 37 40.7	16.8 T	C23
C/2020 K1	2021 08 16.88098	17 31 08.00	+39 37 39.7	17.1 T	C23
C/2020 K1	2021 08 16.88387	17 31 07.97	+39 37 37.9	17.7 T	C23
C/2020 K1	2021 08 16.88932	17 31 07.90	+39 37 34.0	16.0 T	B96
C/2020 K1	2021 08 16.89421	17 31 07.70	+39 37 30.7	16.9 T	B96
C/2020 K1	2021 08 16.89912	17 31 07.71	+39 37 28.0	16.7 T	B96
C/2020 K1	2021 08 16.91030	17 31 07.40	+39 37 22.5	17.2 N	I72
C/2020 K1	2021 08 16.92940	17 31 06.92	+39 37 08.9	17.2 N	I72
C/2020 K1	2021 08 16.94828	17 31 06.47	+39 36 57.7	17.3 N	I72
C/2020 K1	2021 08 17.90814	17 30 44.08	+39 26 39.6	17.0 N	C35
C/2020 K1	2021 08 17.91009	17 30 44.04	+39 26 38.5	17.1 N	C35
C/2020 K1	2021 08 17.91203	17 30 43.96	+39 26 37.2	17.1 N	C35
C/2020 K1	2021 08 17.96519	17 30 42.74	+39 26 02.4	17.2 N	A03
C/2020 K1	2021 08 17.96900	17 30 42.66	+39 26 00.3	17.1 N	A03
C/2020 K1	2021 08 17.97277	17 30 42.57	+39 25 57.3	17.0 N	A03
C/2020 K1	2021 08 18.330992	17 30 34.50	+39 22 07.2	16.83o	T05
C/2020 K1	2021 08 18.334194	17 30 34.38	+39 22 04.6	17.50o	T05
C/2020 K1	2021 08 18.340657	17 30 34.24	+39 22 00.7	16.70o	T05
C/2020 K1	2021 08 18.351664	17 30 34.00	+39 21 53.7	16.64o	T05
C/2020 K1	2021 08 18.83672	17 30 23.20	+39 16 38.7	17.3 T	B74
C/2020 K1	2021 08 18.84462	17 30 23.00	+39 16 33.7	17.2 T	B74
C/2020 K1	2021 08 18.85249	17 30 22.84	+39 16 28.3	17.2 T	B74
C/2020 K1	2021 08 20.304480	17 29 51.64	+39 00 41.5	16.81o	T08
C/2020 K1	2021 08 20.307245	17 29 51.59	+39 00 39.8	16.74o	T08
C/2020 K1	2021 08 20.313263	17 29 51.45	+39 00 35.8	16.86o	T08
C/2020 K1	2021 08 20.323440	17 29 51.22	+39 00 29.0	16.91o	T08
C/2020 K1	2021 08 21.259372	17 29 32.092	+38 50 13.43	18.33i	F52
C/2020 K1	2021 08 21.271046	17 29 31.844	+38 50 05.68	18.30i	F52
C/2020 K1	2021 08 21.282729	17 29 31.603	+38 49 58.04	18.27i	F52
C/2020 K1	2021 08 21.294466	17 29 31.362	+38 49 50.33	18.21i	F52
C/2020 K1	2021 08 21.93011	17 29 18.85	+38 42 49.9	17.0 N	J36
C/2020 K1	2021 08 21.93194	17 29 18.78	+38 42 49.2	17.1 N	J36
C/2020 K1	2021 08 21.94105	17 29 18.54	+38 42 42.8	17.2 N	J36
C/2020 K1	2021 08 22.285331	17 29 12.00	+38 38 55.0	16.74o	T05
C/2020 K1	2021 08 22.289030	17 29 11.88	+38 38 52.8	17.02o	T05
C/2020 K1	2021 08 22.295004	17 29 11.75	+38 38 48.3	16.87o	T05
C/2020 K1	2021 08 22.297746	17 29 11.71	+38 38 46.7	16.71o	T05

C/2020 K1	2021 08 22.300947	17 29 11.64	+38 38 44.7	17.49o		T05
C/2020 K1	2021 08 22.306909	17 29 11.55	+38 38 40.7	16.76o		T05
C/2020 K1	2021 08 22.307368	17 29 11.54	+38 38 40.5	16.67o		T05
C/2020 K1	2021 08 22.317473	17 29 11.34	+38 38 33.2	16.82o		T05
C/2020 K1	2021 08 23.90069	17 28 42.06	+38 20 57.9	16.9	T	C23
C/2020 K1	2021 08 23.90502	17 28 41.92	+38 20 54.7	17.0	T	C23
C/2020 K1	2021 08 23.90935	17 28 41.85	+38 20 52.2	17.0	T	C23
C/2020 K1	2021 08 24.685602	17 28 28.28	+38 12 11.7	16.3	T	N86
C/2020 K1	2021 08 24.694306	17 28 28.13	+38 12 07.5	16.2	T	N86
C/2020 K1	2021 08 24.702951	17 28 28.04	+38 12 00.3	16.2	T	N86
C/2020 K1	2021 08 24.711655	17 28 27.87	+38 11 55.3	16.0	T	N86
C/2020 K1	2021 08 25.84514	17 28 08.97	+37 59 10.2	17.5	T	K 160
C/2020 K1	2021 08 25.84972	17 28 08.89	+37 59 07.0	17.5	T	K 160
C/2020 K1	2021 08 25.85431	17 28 08.86	+37 59 04.2	17.5	T	K 160
C/2020 K1	2021 08 26.260550	17 28 02.38	+37 54 29.2	16.77G		703
C/2020 K1	2021 08 26.266001	17 28 02.27	+37 54 25.7	16.78G		703
C/2020 K1	2021 08 26.271461	17 28 02.17	+37 54 22.2	16.87G		703
C/2020 K1	2021 08 26.276909	17 28 02.10	+37 54 18.3	16.86G		703
C/2020 K1	2021 08 26.302052	17 28 01.69	+37 54 01.7	16.66o		T05
C/2020 K1	2021 08 26.305709	17 28 01.64	+37 53 59.2	16.72o		T05
C/2020 K1	2021 08 26.311221	17 28 01.56	+37 53 55.3	16.72o		T05
C/2020 K1	2021 08 26.323620	17 28 01.34	+37 53 47.0	16.63o		T05
C/2020 K1	2021 08 27.227955	17 27 47.41	+37 43 32.8	16.98G		G96
C/2020 K1	2021 08 27.231757	17 27 47.39	+37 43 30.4	16.78G		703
C/2020 K1	2021 08 27.233568	17 27 47.33	+37 43 28.9	16.96G		G96
C/2020 K1	2021 08 27.237015	17 27 47.31	+37 43 26.7	16.83G		703
C/2020 K1	2021 08 27.239188	17 27 47.24	+37 43 24.9	16.87G		G96
C/2020 K1	2021 08 27.242280	17 27 47.21	+37 43 23.3	16.86G		703
C/2020 K1	2021 08 27.244808	17 27 47.15	+37 43 21.5	16.91G		G96
C/2020 K1	2021 08 27.247540	17 27 47.15	+37 43 20.0	16.70G		703
C/2020 K1	2021 08 27.90058	17 27 37.55	+37 35 54.3	17.2	T	K I81
C/2020 K1	2021 08 27.90238	17 27 37.52	+37 35 53.1	17.1	T	K I81
C/2020 K1	2021 08 27.90418	17 27 37.50	+37 35 51.8	16.5	T	K I81
C/2020 K1	2021 08 27.99334	17 27 36.15	+37 34 51.5	17.6	T	29G40
C/2020 K1	2021 08 28.00406	17 27 35.96	+37 34 43.8	17.7	T	29G40
C/2020 K1	2021 08 28.01428	17 27 35.88	+37 34 37.0	17.7	T	29G40
C/2020 K1	2021 08 28.288637	17 27 32.03	+37 31 30.6	16.66o		T08
C/2020 K1	2021 08 28.291858	17 27 31.97	+37 31 28.3	16.71o		T08
C/2020 K1	2021 08 28.298338	17 27 31.88	+37 31 24.1	16.65o		T08
C/2020 K1	2021 08 28.310794	17 27 31.69	+37 31 15.5	16.73o		T08
C/2020 K1	2021 08 29.56015	17 27 14.73	+37 16 59.8	16.5	T	Q11
C/2020 K1	2021 08 29.56863	17 27 14.61	+37 16 53.9			Q11
C/2020 K1	2021 08 29.57712	17 27 14.50	+37 16 47.9			Q11
C/2020 K1	2021 08 29.66694	17 27 13.43	+37 15 45.9			01 186
C/2020 K1	2021 08 29.67008	17 27 13.35	+37 15 44.0			01 186
C/2020 K1	2021 08 29.67294	17 27 13.33	+37 15 42.0	16.8	T	01 186
C/2020 K1	2021 08 29.67581	17 27 13.26	+37 15 39.7			01 186
C/2020 K1	2021 08 29.80492	17 27 11.67	+37 14 12.2	17.6	T	K L47
C/2020 K1	2021 08 29.82156	17 27 11.42	+37 13 59.8	17.8	T	K L47
C/2020 K1	2021 08 30.282958	17 27 05.58	+37 08 43.3	17.17c		T05
C/2020 K1	2021 08 30.286161	17 27 05.55	+37 08 41.4	17.03c		T05
C/2020 K1	2021 08 30.294896	17 27 05.44	+37 08 35.3	17.09c		T05
C/2020 K1	2021 08 30.317037	17 27 05.16	+37 08 19.8	17.00c		T05
C/2020 K1	2021 08 30.47103	17 27 03.25	+37 06 33.7			Q11
C/2020 K1	2021 08 30.48023	17 27 03.14	+37 06 27.3			Q11
C/2020 K1	2021 08 30.48800	17 27 03.04	+37 06 22.0	16.4	T	Q11
C/2020 K1	2021 08 30.83834	17 26 58.88	+37 02 20.4	17.5	T	K L47
C/2020 K1	2021 08 30.85347	17 26 58.54	+37 02 08.7	17.8	T	K L47
C/2020 K1	2021 08 31.87575	17 26 46.88	+36 50 23.4	16.9	T	K I81
C/2020 K1	2021 08 31.87753	17 26 46.86	+36 50 22.1	16.8	T	K I81
C/2020 K1	2021 08 31.87932	17 26 46.84	+36 50 20.8	16.9	T	K I81
C/2020 K1	2021 09 01.279646	17 26 42.48	+36 45 44.9	16.65o		T08
C/2020 K1	2021 09 01.284771	17 26 42.43	+36 45 41.4	16.67o		T08
C/2020 K1	2021 09 01.287549	17 26 42.40	+36 45 39.3	16.74o		T08
C/2020 K1	2021 09 01.299548	17 26 42.25	+36 45 31.2	16.68o		T08
C/2020 K1	2021 09 03.290685	17 26 22.62	+36 22 28.1	16.93c		T05
C/2020 K1	2021 09 03.294852	17 26 22.59	+36 22 25.4	16.95c		T05
C/2020 K1	2021 09 03.300367	17 26 22.49	+36 22 21.6	16.92c		T05
C/2020 K1	2021 09 03.310527	17 26 22.42	+36 22 14.2	16.99c		T05
C/2020 K1	2021 09 03.82061	17 26 17.91	+36 16 17.5	17.8	T	K L47
C/2020 K1	2021 09 03.83654	17 26 17.73	+36 16 05.7	17.4	T	K L47
C/2020 K1	2021 09 04.96666	17 26 08.58	+36 02 57.6	17.2	N	Z55
C/2020 K1	2021 09 04.96825	17 26 08.59	+36 02 56.7	17.2	N	Z55
C/2020 K1	2021 09 04.96953	17 26 08.52	+36 02 55.6	17.1	N	Z55
C/2020 K1	2021 09 04.97072	17 26 08.55	+36 02 54.8	17.2	N	Z55
C/2020 K1	2021 09 04.97304	17 26 08.54	+36 02 53.3	17.0	N	Z55
C/2020 K1	2021 09 05.256310	17 26 06.41	+35 59 36.3	16.81o		T08
C/2020 K1	2021 09 05.259603	17 26 06.41	+35 59 34.0	16.71o		T08
C/2020 K1	2021 09 05.265163	17 26 06.36	+35 59 30.0	16.69o		T08
C/2020 K1	2021 09 05.279929	17 26 06.23	+35 59 19.8	16.72o		T08
C/2020 K1	2021 09 05.87378	17 26 02.01	+35 52 23.1	16.9	T	G06
C/2020 K1	2021 09 05.88096	17 26 01.91	+35 52 18.0	17.0	T	G06
C/2020 K1	2021 09 05.88815	17 26 01.91	+35 52 12.7	16.9	T	G06
C/2020 K1	2021 09 06.86401	17 25 55.54	+35 40 49.2	17.0	T	C23
C/2020 K1	2021 09 06.86834	17 25 55.53	+35 40 46.6	16.9	T	C23
C/2020 K1	2021 09 06.87267	17 25 55.52	+35 40 43.3	16.9	T	C23
C/2020 K1	2021 09 07.295211	17 25 53.03	+35 35 47.4	17.64c		T05
C/2020 K1	2021 09 07.301189	17 25 52.98	+35 35 43.1	17.58c		T05
C/2020 K1	2021 09 07.307159	17 25 52.95	+35 35 38.9	17.13c		T05
C/2020 K1	2021 09 07.318123	17 25 52.89	+35 35 31.3	17.17c		T05
C/2020 K1	2021 09 07.89686	17 25 49.72	+35 28 44.3	16.8	T	K 970
C/2020 K1	2021 09 07.90104	17 25 49.72	+35 28 41.2	16.5	T	K 970
C/2020 K1	2021 09 07.96505	17 25 49.37	+35 27 56.1	16.9	T	K I81
C/2020 K1	2021 09 07.96715	17 25 49.36	+35 27 54.6	16.9	T	K I81
C/2020 K1	2021 09 07.96926	17 25 49.35	+35 27 53.1	16.8	T	K I81
C/2020 K1	2021 09 08.317913	17 25 47.60	+35 23 48.9	16.69o		T08
C/2020 K1	2021 09 08.328097	17 25 47.53	+35 23 41.9	16.62o		T08
C/2020 K1	2021 09 08.333636	17 25 47.50	+35 23 37.9	16.60o		T08
C/2020 K1	2021 09 08.339164	17 25 47.47	+35 23 34.2	16.65o		T08
C/2020 K1	2021 09 09.88554	17 25 40.97	+35 05 26.6	17.1	N	J22
C/2020 K1	2021 09 09.88740	17 25 40.96	+35 05 25.6	17.1	N	J22
C/2020 K1	2021 09 09.89159	17 25 40.97	+35 05 20.4	17.4	T	A98
C/2020 K1	2021 09 09.89291	17 25 40.93	+35 05 21.8	17.1	N	J22
C/2020 K1	2021 09 09.89874	17 25 40.89	+35 05 16.1	16.8	T	A98
C/2020 K1	2021 09 09.90732	17 25 40.87	+35 05 09.3	17.5	T	A98
C/2020 K1	2021 09 10.255124	17 25 39.69	+35 01 06.5	17.05c		T05

C/2020 K1	2021 09 10.269564	17 25 39.64	+35 00 56.5	16.95c	T05
C/2020 K1	2021 09 10.272765	17 25 39.62	+35 00 54.1	16.97c	T05
C/2020 K1	2021 09 10.281150	17 25 39.60	+35 00 48.1	16.97c	T05
C/2020 K1	2021 09 10.84274	17 25 37.91	+34 54 11.6	16.8 T	L79
C/2020 K1	2021 09 10.84541	17 25 37.91	+34 54 10.1	17.1 T	L79
C/2020 K1	2021 09 10.84794	17 25 37.93	+34 54 09.2	17.0 T	L79
C/2020 K1	2021 09 11.48725	17 25 36.23	+34 46 38.5	15.9 R	D29
C/2020 K1	2021 09 11.49520	17 25 36.26	+34 46 32.9	15.8 R	D29
C/2020 K1	2021 09 11.50139	17 25 36.19	+34 46 28.6	15.9 R	D29
C/2020 K1	2021 09 11.50934	17 25 36.21	+34 46 22.8	15.8 R	D29
C/2020 K1	2021 09 11.51553	17 25 36.14	+34 46 18.4	15.8 R	D29
C/2020 K1	2021 09 11.52348	17 25 36.15	+34 46 12.5	15.7 R	D29
C/2020 K1	2021 09 11.83898	17 25 35.42	+34 42 30.0	17.4 T	K 160
C/2020 K1	2021 09 11.84123	17 25 35.41	+34 42 28.3	17.4 T	K 160
C/2020 K1	2021 09 11.84334	17 25 35.38	+34 42 26.7	17.5 T	K 160
C/2020 K1	2021 09 12.275032	17 25 34.66	+34 37 23.5	16.51o	T08
C/2020 K1	2021 09 12.278741	17 25 34.65	+34 37 21.0	16.49o	T08
C/2020 K1	2021 09 12.284564	17 25 34.62	+34 37 17.0	16.58o	T08
C/2020 K1	2021 09 12.295283	17 25 34.58	+34 37 09.1	17.10o	T08
C/2020 K1	2021 09 12.50244	17 25 34.32	+34 34 43.2	15.8 R	D29
C/2020 K1	2021 09 12.51658	17 25 34.30	+34 34 33.1	15.8 R	D29
C/2020 K1	2021 09 12.53072	17 25 34.26	+34 34 23.1	15.8 R	D29
C/2020 K1	2021 09 13.150379	17 25 33.47	+34 27 06.2	16.74G	703
C/2020 K1	2021 09 13.155840	17 25 33.47	+34 27 02.7	16.68G	703
C/2020 K1	2021 09 13.161299	17 25 33.47	+34 26 58.4	16.71G	703
C/2020 K1	2021 09 13.166759	17 25 33.46	+34 26 54.7	16.75G	703
C/2020 K1	2021 09 13.202419	17 25 33.39	+34 26 29.0		01 658
C/2020 K1	2021 09 13.205764	17 25 33.39	+34 26 26.6		01 658
C/2020 K1	2021 09 13.209109	17 25 33.39	+34 26 24.3		01 658
C/2020 K1	2021 09 13.212454	17 25 33.38	+34 26 21.9		01 658
C/2020 K1	2021 09 13.215810	17 25 33.39	+34 26 19.6		01 658
C/2020 K1	2021 09 13.99686	17 25 32.88	+34 17 08.6	16.9 T	K I81
C/2020 K1	2021 09 13.99897	17 25 32.90	+34 17 07.0	17.0 T	K I81
C/2020 K1	2021 09 14.00108	17 25 32.90	+34 17 05.5	17.0 T	K I81
C/2020 K1	2021 09 14.247165	17 25 32.86	+34 14 13.5	16.55o	T05
C/2020 K1	2021 09 14.250367	17 25 32.86	+34 14 11.2	16.55o	T05
C/2020 K1	2021 09 14.259604	17 25 32.85	+34 14 04.8	16.54o	T05
C/2020 K1	2021 09 14.276448	17 25 32.87	+34 13 52.9	16.59o	T05
C/2020 K1	2021 09 15.192118	17 25 33.08	+34 03 06.8	16.92G	703
C/2020 K1	2021 09 15.197655	17 25 33.07	+34 03 02.8	16.92G	703
C/2020 K1	2021 09 15.203192	17 25 33.06	+34 02 59.1	16.89G	703
C/2020 K1	2021 09 15.208736	17 25 33.08	+34 02 55.2	16.80G	703
C/2020 K1	2021 09 15.88668	17 25 33.62	+33 54 57.0	16.8 T	K 970
C/2020 K1	2021 09 15.89081	17 25 33.63	+33 54 54.1	17.0 T	K 970
C/2020 K1	2021 09 15.93029	17 25 33.69	+33 54 26.5	17.0 T	C23
C/2020 K1	2021 09 15.93462	17 25 33.70	+33 54 23.5	16.6 T	C23
C/2020 K1	2021 09 15.93895	17 25 33.70	+33 54 20.3	17.0 T	C23
C/2020 K1	2021 09 16.335441	17 25 34.26	+33 49 41.8	16.41o	T08
C/2020 K1	2021 09 16.338669	17 25 34.25	+33 49 39.4	16.63o	T08
C/2020 K1	2021 09 16.344681	17 25 34.14	+33 49 35.7	16.86o	T08
C/2020 K1	2021 09 16.355744	17 25 34.26	+33 49 27.3	16.50o	T08
C/2020 K1	2021 09 16.47013	17 25 34.46	+33 48 08.1	15.8 R	D29
C/2020 K1	2021 09 16.48427	17 25 34.48	+33 47 57.3	15.9 R	D29
C/2020 K1	2021 09 16.49842	17 25 34.51	+33 47 47.2	16.1 R	D29
C/2020 K1	2021 09 16.90425	17 25 35.21	+33 43 00.2	17.2 T	K 970
C/2020 K1	2021 09 16.90919	17 25 35.19	+33 42 56.8	17.0 T	K 970
C/2020 K1	2021 09 17.91772	17 25 37.57	+33 31 07.2	16.7 T	970
C/2020 K1	2021 09 17.91855	17 25 37.61	+33 31 06.1	16.9 T	970
C/2020 K1	2021 09 18.132175	17 25 38.14	+33 28 36.7	16.98G	G96
C/2020 K1	2021 09 18.138063	17 25 38.15	+33 28 32.6	16.93G	G96
C/2020 K1	2021 09 18.143964	17 25 38.17	+33 28 28.5	16.95G	G96
C/2020 K1	2021 09 18.149894	17 25 38.20	+33 28 24.3	16.89G	G96
C/2020 K1	2021 09 19.226191	17 25 41.75	+33 15 48.7	16.48o	T05
C/2020 K1	2021 09 19.231732	17 25 41.79	+33 15 44.5	16.52o	T05
C/2020 K1	2021 09 19.235403	17 25 41.79	+33 15 42.0	16.43o	T05
C/2020 K1	2021 09 19.247427	17 25 41.81	+33 15 33.6	16.67o	T05

C/2020 K5 (PANSTARRS)

C/2020 K5	2021 05 18.78697	01 37 44.03	−45 43 59.0		01Q62
C/2020 K5	2021 05 18.79052	01 37 45.32	−45 43 56.7	14.6 T	01Q62

C/2020 K6 (Rankin)

C/2020 K6	2021 08 01.069045	18 09 06.83	+20 58 51.0	20.1 T	KW62
C/2020 K6	2021 08 01.079983	18 09 06.29	+20 58 50.1	20.3 T	KW62
C/2020 K6	2021 08 01.090955	18 09 05.76	+20 58 51.8	19.7 T	KW62
C/2020 K6	2021 08 27.49727	17 51 35.79	+20 55 57.3		KQ11
C/2020 K6	2021 08 27.50328	17 51 35.60	+20 55 56.8	18.7 T	KQ11
C/2020 K6	2021 08 27.50963	17 51 35.42	+20 55 56.4		KQ11
C/2020 K6	2021 08 28.53348	17 51 05.94	+20 54 45.6		KQ11
C/2020 K6	2021 08 28.53915	17 51 05.77	+20 54 45.1		KQ11
C/2020 K6	2021 08 28.54516	17 51 05.60	+20 54 44.8	18.8 T	KQ11
C/2020 K6	2021 09 01.83401	17 49 11.86	+20 49 15.3	18.9 T	A77
C/2020 K6	2021 09 01.84600	17 49 11.49	+20 49 14.0	19.1 T	A77
C/2020 K6	2021 09 01.84857	17 49 11.48	+20 49 13.9	19.5 T	K 215
C/2020 K6	2021 09 01.85012	17 49 11.44	+20 49 14.1	19.4 T	K 215
C/2020 K6	2021 09 01.85167	17 49 11.31	+20 49 14.0		K 215
C/2020 K6	2021 09 01.85787	17 49 11.22	+20 49 13.7	19.0 T	A77

C/2020 K7 (PANSTARRS)

C/2020 K7	2021 08 05.60648	21 34 11.35	+13 03 22.4	19.4 T	KQ21
C/2020 K7	2021 08 05.64245	21 34 10.49	+13 03 24.8	19.7 T	KQ21
C/2020 K7	2021 08 05.72984	21 34 08.52	+13 03 27.2	19.3 R	D29
C/2020 K7	2021 08 05.74398	21 34 08.22	+13 03 27.8	19.6 R	D29
C/2020 K7	2021 08 05.75812	21 34 07.85	+13 03 28.8	19.8 R	D29
C/2020 K7	2021 08 05.97185	21 34 03.37	+13 03 39.2		01 L81
C/2020 K7	2021 08 05.99970	21 34 02.77	+13 03 39.9	20.2 T	01 L81
C/2020 K7	2021 08 30.264470	21 25 30.120	+13 00 15.28	20.73w	F51
C/2020 K7	2021 08 30.277466	21 25 29.854	+13 00 14.56	21.09w	F51
C/2020 K7	2021 08 30.290556	21 25 29.608	+13 00 13.74	21.06w	F51
C/2020 K7	2021 08 30.303507	21 25 29.328	+13 00 12.95	21.22w	F51
C/2020 K7	2021 09 10.248807	21 22 08.580	+12 47 31.49	21.02w	F52
C/2020 K7	2021 09 10.259712	21 22 08.378	+12 47 30.50	21.24w	F52
C/2020 K7	2021 09 10.270608	21 22 08.213	+12 47 29.76	20.98w	F52
C/2020 K7	2021 09 10.281498	21 22 07.991	+12 47 28.73	21.13w	F52
C/2020 K7	2021 09 13.55102	21 21 14.95	+12 42 42.4	18.9 R	D29
C/2020 K7	2021 09 13.56516	21 21 14.73	+12 42 41.3	19.2 R	D29
C/2020 K7	2021 09 13.57930	21 21 14.46	+12 42 39.9	19.2 R	D29

A/2020 M4

A/2020 M4	2021 08 12.245909	14 07 53.704	+02 40 37.08	22.2	G		29 568
A/2020 M4	2021 08 12.247819	14 07 53.686	+02 40 36.81	22.2	G		29 568
A/2020 M4	2021 08 12.249723	14 07 53.664	+02 40 36.50	22.3	G		29 568

C/2020 M5 (ATLAS)

C/2020 M5	2021 06 15.94457	12 58 55.59	+72 29 31.5			K	204
C/2020 M5	2021 06 15.97833	12 58 49.26	+72 28 33.3	16.6	T	K	204
C/2020 M5	2021 08 06.84150	12 25 21.77	+48 11 39.8	15.9	T		A77
C/2020 M5	2021 08 06.84556	12 25 21.94	+48 11 32.4	15.4	T		A77
C/2020 M5	2021 08 06.85042	12 25 21.97	+48 11 31.5	15.7	T		A77
C/2020 M5	2021 08 06.88129	12 25 22.55	+48 10 41.2	16.1	T		L85
C/2020 M5	2021 08 06.92575	12 25 23.43	+48 09 34.5	16.2	T		L85
C/2020 M5	2021 08 11.88090	12 27 08.59	+46 09 48.9	16.3	T		C23
C/2020 M5	2021 08 11.88378	12 27 08.68	+46 09 44.3	16.3	T		C23
C/2020 M5	2021 08 11.88667	12 27 08.70	+46 09 40.1	16.4	T		C23
C/2020 M5	2021 08 12.162530	12 27 15.08	+46 03 08.8	16.87	T		I41
C/2020 M5	2021 08 12.163990	12 27 15.11	+46 03 06.8	16.88	T		I41
C/2020 M5	2021 08 12.165459	12 27 15.15	+46 03 04.7	16.91	T		I41
C/2020 M5	2021 08 12.166920	12 27 15.17	+46 03 02.7	16.94	T		I41
C/2020 M5	2021 08 12.168390	12 27 15.21	+46 03 00.5	16.88	T		I41
C/2020 M5	2021 08 12.93977	12 27 33.22	+45 44 46.6	16.3	T	K	970
C/2020 M5	2021 08 12.94398	12 27 33.33	+45 44 40.5	16.2	T	K	970
C/2020 M5	2021 08 14.84071	12 28 18.87	+45 00 21.0	16.5	T	K	L47
C/2020 M5	2021 08 14.85141	12 28 19.28	+45 00 05.4	16.8	T	K	L47
C/2020 M5	2021 08 16.84607	12 29 09.51	+44 14 07.8	16.4	T		C23
C/2020 M5	2021 08 16.85040	12 29 09.66	+44 14 02.7	16.5	T		C23
C/2020 M5	2021 08 16.85473	12 29 09.84	+44 13 56.8	16.1	T		C23
C/2020 M5	2021 08 16.92925	12 29 11.74	+44 12 14.5	16.2	T	K	970
C/2020 M5	2021 08 16.93346	12 29 11.85	+44 12 08.7	16.3	T	K	970
C/2020 M5	2021 08 18.146230	12 29 43.41	+43 44 35.3	16.93	T		I41
C/2020 M5	2021 08 18.148630	12 29 43.49	+43 44 32.0	16.93	T		I41
C/2020 M5	2021 08 18.151041	12 29 43.55	+43 44 28.9	16.90	T		I41
C/2020 M5	2021 08 18.153459	12 29 43.63	+43 44 25.3	16.83	T		I41
C/2020 M5	2021 08 18.155870	12 29 43.68	+43 44 22.1	16.89	T		I41
C/2020 M5	2021 08 18.159200	12 29 43.76	+43 44 17.3	16.88	T		I41
C/2020 M5	2021 08 18.160630	12 29 43.80	+43 44 15.3	16.81	T		I41
C/2020 M5	2021 08 18.162050	12 29 43.84	+43 44 13.4	16.86	T		I41
C/2020 M5	2021 08 18.163480	12 29 43.89	+43 44 11.5	16.84	T		I41
C/2020 M5	2021 08 23.86682	12 32 21.27	+41 37 57.5	16.4	T		C23
C/2020 M5	2021 08 23.87260	12 32 21.42	+41 37 49.7	16.4	T		C23
C/2020 M5	2021 08 23.87693	12 32 21.52	+41 37 44.5	16.1	T		C23
C/2020 M5	2021 08 23.88588	12 32 21.79	+41 37 32.6	16.1	T	K	970
C/2020 M5	2021 08 23.89000	12 32 21.92	+41 37 27.1	16.1	T	K	970
C/2020 M5	2021 08 31.90596	12 36 22.86	+38 49 24.3	16.1	T	K	I81
C/2020 M5	2021 08 31.90775	12 36 22.92	+38 49 22.1	16.1	T	K	I81
C/2020 M5	2021 08 31.90955	12 36 22.97	+38 49 19.9	16.0	T	K	I81
C/2020 M5	2021 09 06.80568	12 39 30.90	+36 52 30.7	16.3	T	K	C23
C/2020 M5	2021 09 06.81001	12 39 31.01	+36 52 25.9	16.3	T	K	C23
C/2020 M5	2021 09 10.773866	12 41 40.92	+35 37 03.6	16.3	T	K	G23
C/2020 M5	2021 09 10.787986	12 41 41.42	+35 36 47.4	16.4	T	K	G23
C/2020 M5	2021 09 10.802108	12 41 41.88	+35 36 31.6	16.3	T	K	G23
C/2020 M5	2021 09 11.766149	12 42 13.80	+35 18 33.8	16.1	T	K	G23
C/2020 M5	2021 09 11.780278	12 42 14.21	+35 18 17.9	16.1	T	K	G23
C/2020 M5	2021 09 11.794398	12 42 14.79	+35 18 02.6	16.4	T	K	G23

C/2020 O2 (Amaral)

C/2020 O2	2021 07 17.53309	16 35 44.85	−16 30 49.3				D95
C/2020 O2	2021 07 17.53745	16 35 44.72	−16 30 46.8				D95
C/2020 O2	2021 07 17.54068	16 35 44.65	−16 30 45.3	15.7	T		D95
C/2020 O2	2021 08 05.297266	16 30 25.68	−14 01 17.5	16.27	c		T08
C/2020 O2	2021 08 05.300492	16 30 25.68	−14 01 15.9	16.32	c		T08
C/2020 O2	2021 08 05.305557	16 30 25.63	−14 01 13.5	16.29	c		T08
C/2020 O2	2021 08 05.306938	16 30 25.64	−14 01 13.2	16.25	c		T08
C/2020 O2	2021 08 05.309247	16 30 25.61	−14 01 11.5	16.87	c		T08
C/2020 O2	2021 08 05.314775	16 30 25.55	−14 01 09.5	16.27	c		T08
C/2020 O2	2021 08 05.317082	16 30 25.52	−14 01 08.7	16.29	c		T08
C/2020 O2	2021 08 05.328602	16 30 25.43	−14 01 03.6	16.30	c		T08
C/2020 O2	2021 08 05.519379	16 30 23.80	−13 59 41.9	16.8	T		900
C/2020 O2	2021 08 05.526382	16 30 23.74	−13 59 38.9	16.7	T		900
C/2020 O2	2021 08 06.314384	16 30 17.36	−13 54 05.6	16.28	c		T08
C/2020 O2	2021 08 06.318094	16 30 17.33	−13 54 04.4	16.23	c		T08
C/2020 O2	2021 08 06.323611	16 30 17.28	−13 54 01.9	16.26	c		T08
C/2020 O2	2021 08 06.333794	16 30 17.19	−13 53 57.6	16.32	c		T08
C/2020 O2	2021 08 08.272425	16 30 03.935	−13 40 30.92	17.88	w		F51
C/2020 O2	2021 08 08.283463	16 30 03.858	−13 40 26.24	17.82	w		F51
C/2020 O2	2021 08 08.294481	16 30 03.788	−13 40 21.84	17.81	w		F51
C/2020 O2	2021 08 08.295402	16 30 03.75	−13 40 22.1	15.92	o		T05
C/2020 O2	2021 08 08.300530	16 30 03.72	−13 40 20.1	15.94	o		T05
C/2020 O2	2021 08 08.305530	16 30 03.708	−13 40 17.13	17.73	w		F51
C/2020 O2	2021 08 08.306962	16 30 03.67	−13 40 17.4	15.87	o		T05
C/2020 O2	2021 08 08.321671	16 30 03.57	−13 40 11.2	16.00	o		T05
C/2020 O2	2021 08 08.87939	16 30 00.46	−13 36 24.4	16.7	T		K77
C/2020 O2	2021 08 08.88367	16 30 00.41	−13 36 21.5	16.8	T		K77
C/2020 O2	2021 08 08.88794	16 30 00.34	−13 36 20.5	16.8	T		K77
C/2020 O2	2021 08 10.35912	16 29 53.28	−13 26 23.5	15.9	T		E89
C/2020 O2	2021 08 10.36436	16 29 53.24	−13 26 21.5	16.5	T		E89
C/2020 O2	2021 08 10.36902	16 29 53.20	−13 26 19.3	16.3	T		E89
C/2020 O2	2021 08 11.85453	16 29 47.99	−13 16 35.7	16.3	T	K	C23
C/2020 O2	2021 08 11.85752	16 29 48.03	−13 16 34.8	16.6	T	K	C23
C/2020 O2	2021 08 11.86052	16 29 47.98	−13 16 32.9	16.7	T	K	C23
C/2020 O2	2021 08 12.285523	16 29 46.83	−13 13 46.7	15.95	o		T05
C/2020 O2	2021 08 12.288734	16 29 46.83	−13 13 45.5	15.97	o		T05
C/2020 O2	2021 08 12.296114	16 29 46.81	−13 13 42.6	16.02	o		T05
C/2020 O2	2021 08 12.306821	16 29 46.78	−13 13 38.4	16.01	o		T05
C/2020 O2	2021 08 13.297620	16 29 44.75	−13 07 15.1	16.04	o		T08
C/2020 O2	2021 08 13.301305	16 29 44.74	−13 07 13.9	16.04	o		T08
C/2020 O2	2021 08 13.320641	16 29 44.71	−13 07 06.2	16.08	o		T08
C/2020 O2	2021 08 13.332155	16 29 44.67	−13 07 01.8	16.02	o		T08
C/2020 O2	2021 08 13.99975	16 29 43.83	−13 02 46.4	16.2	T	K	X74
C/2020 O2	2021 08 14.00592	16 29 43.87	−13 02 43.0	16.3	T	K	X74
C/2020 O2	2021 08 14.01226	16 29 43.81	−13 02 38.5	16.4	T	K	X74
C/2020 O2	2021 08 14.271642	16 29 43.59	−13 01 04.4	15.89	o		T08
C/2020 O2	2021 08 14.275795	16 29 43.56	−13 01 03.0	16.06	o		T08
C/2020 O2	2021 08 14.283193	16 29 43.58	−13 00 59.8	15.89	o		T08
C/2020 O2	2021 08 14.294269	16 29 43.57	−13 00 55.5	15.99	o		T08

C/2020 O2	2021 08 15.254883	16 29 43.25	−12 54 53.4	15.98o		T05
C/2020 O2	2021 08 15.258085	16 29 43.25	−12 54 52.4	16.11o		T05
C/2020 O2	2021 08 15.264550	16 29 43.24	−12 54 49.8	16.04o		T05
C/2020 O2	2021 08 15.274640	16 29 43.23	−12 54 46.2	16.06o		T05
C/2020 O2	2021 08 18.281138	16 29 47.24	−12 36 24.2	15.99o		T08
C/2020 O2	2021 08 18.284365	16 29 47.26	−12 36 22.9	16.74o		T08
C/2020 O2	2021 08 18.292223	16 29 47.27	−12 36 20.6	15.91o		T08
C/2020 O2	2021 08 18.304864	16 29 47.28	−12 36 15.9	16.10o		T08
C/2020 O2	2021 08 20.279551	16 29 54.09	−12 24 36.2	16.66o		T05
C/2020 O2	2021 08 20.282769	16 29 54.09	−12 24 35.1	16.69o		T05
C/2020 O2	2021 08 20.289643	16 29 54.13	−12 24 32.9	16.08o		T05
C/2020 O2	2021 08 20.301137	16 29 54.17	−12 24 29.0	16.11o		T05
C/2020 O2	2021 08 21.264570	16 29 58.67	−12 18 54.5	16.11o		T08
C/2020 O2	2021 08 21.267795	16 29 58.67	−12 18 53.6	16.03o		T08
C/2020 O2	2021 08 21.279364	16 29 58.72	−12 18 49.4	16.04o		T08
C/2020 O2	2021 08 21.285836	16 29 58.75	−12 18 47.3	16.09o		T08
C/2020 O2	2021 08 22.300052	16 30 04.29	−12 12 59.9	16.20o		T08
C/2020 O2	2021 08 22.304196	16 30 04.32	−12 12 58.4	16.18o		T08
C/2020 O2	2021 08 22.313431	16 30 04.37	−12 12 55.3	16.16o		T08
C/2020 O2	2021 08 22.324495	16 30 04.42	−12 12 51.4	16.27o		T08
C/2020 O2	2021 08 23.84640	16 30 14.29	−12 04 20.3	16.4 T	K	C23
C/2020 O2	2021 08 23.85073	16 30 14.32	−12 04 20.0	16.6 T	K	C23
C/2020 O2	2021 08 24.338839	16 30 17.91	−12 01 36.0	18.17o		T05
C/2020 O2	2021 08 24.342061	16 30 17.91	−12 01 35.1	15.88o		T05
C/2020 O2	2021 08 24.348037	16 30 17.95	−12 01 33.5	16.55o		T05
C/2020 O2	2021 08 24.358135	16 30 18.04	−12 01 30.0	16.22o		T05
C/2020 O2	2021 08 25.43511	16 30 26.61	−11 55 34.1	16.6 T	K	E89
C/2020 O2	2021 08 25.44266	16 30 26.66	−11 55 31.5	16.3 T	K	E89
C/2020 O2	2021 08 25.44700	16 30 26.69	−11 55 29.9	16.2 T	K	E89
C/2020 O2	2021 08 26.263515	16 30 33.82	−11 51 07.4	16.79o		T08
C/2020 O2	2021 08 26.266742	16 30 33.84	−11 51 06.9	16.12o		T08
C/2020 O2	2021 08 26.274110	16 30 33.90	−11 51 04.3	16.16o		T08
C/2020 O2	2021 08 26.284702	16 30 33.99	−11 51 01.0	16.14o		T08
C/2020 O2	2021 08 27.286056	16 30 43.40	−11 45 40.8	16.36c		T05
C/2020 O2	2021 08 27.289283	16 30 43.44	−11 45 39.5	16.54c		T05
C/2020 O2	2021 08 27.294814	16 30 43.49	−11 45 37.8	16.52c		T05
C/2020 O2	2021 08 27.309514	16 30 43.61	−11 45 33.3	16.37c		T05
C/2020 O2	2021 08 28.265024	16 30 53.37	−11 40 31.6	16.44c		T05
C/2020 O2	2021 08 28.268256	16 30 53.40	−11 40 29.9	17.02c		T05
C/2020 O2	2021 08 28.273827	16 30 53.46	−11 40 28.7	16.36c		T05
C/2020 O2	2021 08 28.286222	16 30 53.59	−11 40 24.7	16.38c		T05
C/2020 O2	2021 08 30.273956	16 31 16.08	−11 30 08.8	16.13o		T08
C/2020 O2	2021 08 30.277184	16 31 16.11	−11 30 08.1	16.11o		T08
C/2020 O2	2021 08 30.282713	16 31 16.18	−11 30 05.8	16.80o		T08
C/2020 O2	2021 08 30.294709	16 31 16.31	−11 30 02.5	16.17o		T08
C/2020 O2	2021 09 01.262828	16 31 41.44	−11 20 09.2	17.36c		T05
C/2020 O2	2021 09 01.266514	16 31 41.60	−11 20 07.9	16.34c		T05
C/2020 O2	2021 09 01.272052	16 31 41.67	−11 20 06.5	16.93c		T05
C/2020 O2	2021 09 01.284451	16 31 41.86	−11 20 02.1	16.79c		T05
C/2020 O2	2021 09 01.85867	16 31 49.78	−11 17 12.1	17.2 T	K	215
C/2020 O2	2021 09 01.85996	16 31 49.79	−11 17 11.7	17.2 T	K	215
C/2020 O2	2021 09 01.86125	16 31 49.82	−11 17 11.5	17.2 T	K	215
C/2020 O2	2021 09 03.268752	16 32 10.20	−11 10 19.3	16.25o		T08
C/2020 O2	2021 09 03.269671	16 32 10.27	−11 10 18.2	16.14o		T08
C/2020 O2	2021 09 03.272440	16 32 10.25	−11 10 18.3	16.14o		T08
C/2020 O2	2021 09 03.273359	16 32 10.31	−11 10 17.1	16.76o		T08
C/2020 O2	2021 09 03.278894	16 32 10.34	−11 10 16.4	16.14o		T08
C/2020 O2	2021 09 03.280739	16 32 10.49	−11 10 14.9	16.02o		T08
C/2020 O2	2021 09 03.289036	16 32 10.49	−11 10 13.3	16.25o		T08
C/2020 O2	2021 09 05.41590	16 32 44.11	−11 00 02.0	16.7 T	K	E89
C/2020 O2	2021 09 05.42749	16 32 44.29	−10 59 58.5	16.9 T	K	E89
C/2020 O2	2021 09 05.43712	16 32 44.43	−10 59 56.2	17.0 T	K	E89
C/2020 O2	2021 09 06.81524	16 33 08.01	−10 53 33.1	16.6 T	K	C23
C/2020 O2	2021 09 06.81813	16 33 08.02	−10 53 32.4	16.6 T	K	C23
C/2020 O2	2021 09 06.82101	16 33 08.10	−10 53 31.5	16.4 T	K	C23
C/2020 O2	2021 09 07.256358	16 33 15.79	−10 51 30.2	16.26o		T08
C/2020 O2	2021 09 07.259593	16 33 15.84	−10 51 29.6	16.18o		T08
C/2020 O2	2021 09 07.265579	16 33 15.94	−10 51 27.9	16.26o		T08
C/2020 O2	2021 09 07.276652	16 33 16.14	−10 51 24.8	16.17o		T08
C/2020 O2	2021 09 09.239164	16 33 52.56	−10 42 29.6	16.40c		T05
C/2020 O2	2021 09 09.242365	16 33 52.63	−10 42 28.3	17.06c		T05
C/2020 O2	2021 09 09.249284	16 33 52.74	−10 42 26.8	16.31c		T05
C/2020 O2	2021 09 09.260741	16 33 52.96	−10 42 23.6	16.37c		T05
C/2020 O2	2021 09 09.42630	16 33 56.19	−10 41 38.8	15.7 T		Q11
C/2020 O2	2021 09 09.43549	16 33 56.36	−10 41 36.4			Q11
C/2020 O2	2021 09 09.44326	16 33 56.51	−10 41 34.3			Q11
C/2020 O2	2021 09 13.227574	16 35 14.54	−10 24 57.6	16.88o		T05
C/2020 O2	2021 09 13.230782	16 35 14.60	−10 24 56.9	16.26o		T05
C/2020 O2	2021 09 13.236297	16 35 14.74	−10 24 55.3	16.85o		T05
C/2020 O2	2021 09 13.250512	16 35 15.03	−10 24 51.8	16.26o		T05
C/2020 O2	2021 09 18.097720	16 37 08.53	−10 04 33.5	17.04G		G96
C/2020 O2	2021 09 18.102071	16 37 08.65	−10 04 32.1	16.66G		G96
C/2020 O2	2021 09 18.106412	16 37 08.76	−10 04 31.0	16.64G		G96
C/2020 O2	2021 09 18.110754	16 37 08.86	−10 04 30.1	16.57G		G96

C/2020 P3 (ATLAS)

C/2020 P3	2021 08 10.84190	10 13 31.96	+72 46 20.5	18.7 T	K	215
C/2020 P3	2021 08 10.84320	10 13 32.08	+72 46 20.6	18.0 T	K	215
C/2020 P3	2021 08 10.84449	10 13 32.22	+72 46 20.2	17.6 T	K	215
C/2020 P3	2021 08 12.92159	10 18 18.57	+72 34 04.4	18.2 T	K	970
C/2020 P3	2021 08 12.92581	10 18 19.12	+72 34 03.0	18.4 T	K	970
C/2020 P3	2021 09 01.13675	10 59 05.62	+70 44 27.4	16.9 T	K	I81
C/2020 P3	2021 09 01.13888	10 59 05.82	+70 44 27.0	17.2 T	K	I81
C/2020 P3	2021 09 01.14101	10 59 06.03	+70 44 26.5	18.6 T	K	I81
C/2020 P3	2021 09 05.86221	11 08 17.84	+70 19 11.7	18.0 T	K	970
C/2020 P3	2021 09 05.86634	11 08 18.09	+70 19 08.3	19.3 T	K	970
C/2020 P3	2021 09 12.93762	11 21 32.09	+69 43 04.5	17.6 T		A98
C/2020 P3	2021 09 12.94124	11 21 32.48	+69 43 04.2	17.6 T		A98
C/2020 P3	2021 09 12.94484	11 21 32.91	+69 43 01.0	17.6 T		A98
C/2020 P3	2021 09 12.94845	11 21 33.29	+69 43 00.7	17.6 T		A98
C/2020 P3	2021 09 12.95205	11 21 33.78	+69 42 59.4	17.6 T		A98
C/2020 P3	2021 09 12.95565	11 21 33.93	+69 42 58.4	17.6 T		A98
C/2020 P3	2021 09 12.95926	11 21 34.50	+69 42 57.0	17.6 T		A98
C/2020 P3	2021 09 12.96646	11 21 35.18	+69 42 54.6	17.6 T		A98
C/2020 P3	2021 09 17.82795	11 30 18.72	+69 19 33.1	18.1 N	K	A77

C/2020 P3	2021 09 17.83411	11 30 19.37	+69 19 32.1	18.3	N	K A77
C/2020 P3	2021 09 17.84027	11 30 19.96	+69 19 32.0	18.2	N	K A77

C/2020 PV$_6$ (PANSTARRS)

C/2020 PV$_6$	2021 07 18.58570	19 20 02.49	+31 54 47.7			349
C/2020 PV$_6$	2021 07 18.59267	19 20 00.47	+31 54 51.7			349
C/2020 PV$_6$	2021 07 18.59964	19 19 58.46	+31 54 55.9	13.9	T	349
C/2020 PV$_6$	2021 07 29.86723	18 26 34.19	+32 38 57.1	15.2	T	K 204
C/2020 PV$_6$	2021 07 29.90261	18 26 24.51	+32 38 52.8			K 204
C/2020 PV$_6$	2021 08 02.94900	18 08 36.78	+32 22 50.9	14.5	T	K77
C/2020 PV$_6$	2021 08 02.95212	18 08 35.97	+32 22 50.0	14.4	T	K77
C/2020 PV$_6$	2021 08 03.94781	18 04 23.93	+32 16 48.2	15.1	T	970
C/2020 PV$_6$	2021 08 03.95192	18 04 22.90	+32 16 46.6	15.2	T	970
C/2020 PV$_6$	2021 08 03.95626	18 04 21.90	+32 16 46.7	15.0	T	02G40
C/2020 PV$_6$	2021 08 03.96186	18 04 20.48	+32 16 44.5	15.0	T	02G40
C/2020 PV$_6$	2021 08 03.96772	18 04 19.00	+32 16 42.2	15.0	T	02G40
C/2020 PV$_6$	2021 08 05.411462	17 58 22.60	+32 06 30.6	14.68o		T05
C/2020 PV$_6$	2021 08 05.446658	17 58 13.98	+32 06 14.3	14.75o		T05
C/2020 PV$_6$	2021 08 05.461430	17 58 10.37	+32 06 07.3	14.78o		T05
C/2020 PV$_6$	2021 08 05.466133	17 58 09.22	+32 06 05.3	14.74o		T05
C/2020 PV$_6$	2021 08 06.48174	17 54 05.46	+31 57 59.1	15.7	T	Q21
C/2020 PV$_6$	2021 08 06.48698	17 54 04.22	+31 57 56.8	16.7	T	Q21
C/2020 PV$_6$	2021 08 06.85462	17 52 37.19	+31 54 49.2	16.4	T	K L47
C/2020 PV$_6$	2021 08 06.86888	17 52 33.81	+31 54 41.6	16.4	T	K L47
C/2020 PV$_6$	2021 08 07.366756	17 50 37.12	+31 50 22.2	15.15c		T08
C/2020 PV$_6$	2021 08 07.376625	17 50 34.80	+31 50 16.9	15.17c		T08
C/2020 PV$_6$	2021 08 07.404547	17 50 28.20	+31 50 02.0	15.83c		T08
C/2020 PV$_6$	2021 08 07.416720	17 50 25.40	+31 49 55.1	15.10c		T08
C/2020 PV$_6$	2021 08 07.53712	17 49 57.85	+31 48 49.6	14.8	T	G26
C/2020 PV$_6$	2021 08 07.56575	17 49 51.08	+31 48 33.0	14.7	T	G26
C/2020 PV$_6$	2021 08 07.599716	17 49 42.86	+31 48 15.9	16.1	N	900
C/2020 PV$_6$	2021 08 07.606803	17 49 41.22	+31 48 12.1	15.9	N	900
C/2020 PV$_6$	2021 08 07.89516	17 48 34.83	+31 45 34.1	15.2	N	J36
C/2020 PV$_6$	2021 08 07.90171	17 48 33.28	+31 45 30.2	15.3	N	J36
C/2020 PV$_6$	2021 08 07.91380	17 48 30.49	+31 45 23.5	15.3	N	J36
C/2020 PV$_6$	2021 08 07.97125	17 48 17.12	+31 44 49.1	14.4	T	A98
C/2020 PV$_6$	2021 08 07.97955	17 48 15.22	+31 44 44.5	14.1	T	A98
C/2020 PV$_6$	2021 08 07.98517	17 48 13.95	+31 44 41.3	14.5	T	A98
C/2020 PV$_6$	2021 08 07.98812	17 48 13.23	+31 44 39.5	14.5	T	A98
C/2020 PV$_6$	2021 08 07.99033	17 48 12.72	+31 44 38.4	14.3	T	A98
C/2020 PV$_6$	2021 08 07.99254	17 48 12.22	+31 44 36.9	14.5	T	A98
C/2020 PV$_6$	2021 08 07.99402	17 48 11.84	+31 44 36.0	14.7	T	A98
C/2020 PV$_6$	2021 08 07.99696	17 48 11.21	+31 44 34.6	14.4	T	A98
C/2020 PV$_6$	2021 08 08.84161	17 44 59.57	+31 36 34.3	15.2	N	Z55
C/2020 PV$_6$	2021 08 08.84220	17 44 59.47	+31 36 34.1	15.2	N	Z55
C/2020 PV$_6$	2021 08 08.84279	17 44 59.30	+31 36 33.6	15.3	N	Z55
C/2020 PV$_6$	2021 08 08.84339	17 44 59.19	+31 36 33.5	15.3	N	Z55
C/2020 PV$_6$	2021 08 08.84398	17 44 59.08	+31 36 33.2	15.3	N	Z55
C/2020 PV$_6$	2021 08 08.87097	17 44 52.83	+31 36 16.7	15.9	T	K 160
C/2020 PV$_6$	2021 08 08.87994	17 44 50.80	+31 36 11.3	15.9	T	K 160
C/2020 PV$_6$	2021 08 08.88895	17 44 48.81	+31 36 06.2	16.1	T	K 160
C/2020 PV$_6$	2021 08 08.89777	17 44 47.19	+31 35 57.8	14.6	T	K77
C/2020 PV$_6$	2021 08 08.90354	17 44 45.65	+31 35 51.2	14.5	T	K77
C/2020 PV$_6$	2021 08 09.266939	17 43 24.24	+31 32 21.7			01 658
C/2020 PV$_6$	2021 08 09.271997	17 43 23.11	+31 32 18.5			01 658
C/2020 PV$_6$	2021 08 09.277066	17 43 21.98	+31 32 15.3			01 658
C/2020 PV$_6$	2021 08 09.282135	17 43 20.84	+31 32 12.2			01 658
C/2020 PV$_6$	2021 08 09.288466	17 43 19.43	+31 32 08.2			01 658
C/2020 PV$_6$	2021 08 09.368000	17 43 01.72	+31 31 22.3	15.45o		T05
C/2020 PV$_6$	2021 08 09.385120	17 42 57.89	+31 31 11.8	15.47o		T05
C/2020 PV$_6$	2021 08 09.411075	17 42 52.13	+31 30 55.5	14.68o		T05
C/2020 PV$_6$	2021 08 09.87998	17 41 08.87	+31 26 07.9	15.6	N	K A77
C/2020 PV$_6$	2021 08 09.88561	17 41 07.60	+31 26 04.1	15.5	N	K A77
C/2020 PV$_6$	2021 08 09.89038	17 41 06.60	+31 26 01.0	15.5	N	K A77
C/2020 PV$_6$	2021 08 09.89744	17 41 05.14	+31 25 56.2	15.7	N	K A77
C/2020 PV$_6$	2021 08 10.02560	17 40 36.82	+31 24 36.3	15.6	T	Z10
C/2020 PV$_6$	2021 08 10.03258	17 40 35.28	+31 24 31.8	15.6	T	Z10
C/2020 PV$_6$	2021 08 10.04036	17 40 33.58	+31 24 26.7	15.6	T	Z10
C/2020 PV$_6$	2021 08 10.87833	17 37 32.60	+31 15 32.2	14.9	T	B96
C/2020 PV$_6$	2021 08 10.88491	17 37 31.18	+31 15 28.0	15.0	T	B96
C/2020 PV$_6$	2021 08 10.89148	17 37 29.79	+31 15 23.5	15.0	T	B96
C/2020 PV$_6$	2021 08 10.94368	17 37 18.73	+31 14 49.7	15.2	T	K 970
C/2020 PV$_6$	2021 08 10.94795	17 37 17.82	+31 14 46.9	14.9	T	K 970
C/2020 PV$_6$	2021 08 10.95242	17 37 16.87	+31 14 43.7	15.5	T	C23
C/2020 PV$_6$	2021 08 10.95819	17 37 15.59	+31 14 39.9	15.5	T	C23
C/2020 PV$_6$	2021 08 10.96252	17 37 14.70	+31 14 37.2	15.4	T	C23
C/2020 PV$_6$	2021 08 11.337824	17 35 55.16	+31 10 33.1	15.28c		T08
C/2020 PV$_6$	2021 08 11.362133	17 35 49.95	+31 10 17.1	15.96c		T08
C/2020 PV$_6$	2021 08 11.365364	17 35 49.30	+31 10 14.6	15.20c		T08
C/2020 PV$_6$	2021 08 11.388749	17 35 44.28	+31 09 59.1	15.95c		T08
C/2020 PV$_6$	2021 08 11.84469	17 34 08.93	+31 04 52.1	15.3	T	A71
C/2020 PV$_6$	2021 08 11.84558	17 34 08.73	+31 04 51.5	15.3	T	A71
C/2020 PV$_6$	2021 08 11.84647	17 34 08.55	+31 04 50.9	15.3	T	A71
C/2020 PV$_6$	2021 08 11.84737	17 34 08.35	+31 04 50.3	15.3	T	A71
C/2020 PV$_6$	2021 08 11.84826	17 34 08.17	+31 04 49.7	15.3	T	A71
C/2020 PV$_6$	2021 08 11.84916	17 34 07.99	+31 04 49.1	15.3	T	A71
C/2020 PV$_6$	2021 08 11.85006	17 34 07.80	+31 04 48.4	15.3	T	A71
C/2020 PV$_6$	2021 08 11.85095	17 34 07.62	+31 04 47.9	15.3	T	A71
C/2020 PV$_6$	2021 08 11.85184	17 34 07.43	+31 04 47.2	15.3	T	A71
C/2020 PV$_6$	2021 08 11.85274	17 34 07.24	+31 04 46.7	15.3	T	A71
C/2020 PV$_6$	2021 08 12.81579	17 30 49.28	+30 53 43.7	16.0	T	K L47
C/2020 PV$_6$	2021 08 12.84355	17 30 43.61	+30 53 24.0	16.0	T	K L47
C/2020 PV$_6$	2021 08 12.87869	17 30 36.52	+30 52 59.0	16.5	T	K L47
C/2020 PV$_6$	2021 08 12.97573	17 30 16.84	+30 51 50.1	15.2	T	K 970
C/2020 PV$_6$	2021 08 12.97988	17 30 16.00	+30 51 47.1	15.1	T	K 970
C/2020 PV$_6$	2021 08 12.99669	17 30 12.58	+30 51 35.0	15.5	T	C23
C/2020 PV$_6$	2021 08 12.99814	17 30 12.31	+30 51 34.0	15.7	T	C23
C/2020 PV$_6$	2021 08 12.99958	17 30 12.00	+30 51 32.6	15.6	T	C23
C/2020 PV$_6$	2021 08 13.00102	17 30 11.69	+30 51 31.8	15.6	T	C23
C/2020 PV$_6$	2021 08 13.54843	17 28 22.31	+30 45 02.9	14.0	T	G26
C/2020 PV$_6$	2021 08 13.58353	17 28 15.74	+30 44 37.8	14.3	T	G26
C/2020 PV$_6$	2021 08 13.80722	17 27 30.87	+30 41 56.5	15.3	T	A98
C/2020 PV$_6$	2021 08 13.81294	17 27 29.70	+30 41 52.3	15.2	T	A98
C/2020 PV$_6$	2021 08 13.81866	17 27 28.59	+30 41 48.6	15.2	T	A98
C/2020 PV$_6$	2021 08 13.82581	17 27 27.15	+30 41 43.0	15.5	T	A98
C/2020 PV$_6$	2021 08 13.88290	17 27 16.08	+30 41 02.3	15.5	T	C23

C/2020 PV_6	2021 08 13.88723	17 27 15.23	+30 40 59.1	15.5	T	C23
C/2020 PV_6	2021 08 13.89156	17 27 14.36	+30 40 55.9	15.5	T	C23
C/2020 PV_6	2021 08 13.98322	17 26 56.38	+30 39 49.8	15.4	N	J01
C/2020 PV_6	2021 08 13.99691	17 26 53.66	+30 39 39.6	15.4	N	J01
C/2020 PV_6	2021 08 14.01063	17 26 50.87	+30 39 29.9	15.3	N	J01
C/2020 PV_6	2021 08 14.82903	17 24 12.35	+30 29 28.4	16.5	T	A77
C/2020 PV_6	2021 08 14.83552	17 24 11.12	+30 29 23.3	16.5	T	A77
C/2020 PV_6	2021 08 14.84281	17 24 09.69	+30 29 17.6	14.2	T	A77
C/2020 PV_6	2021 08 14.87587	17 24 03.36	+30 28 53.8	15.8	T	K 160
C/2020 PV_6	2021 08 14.87928	17 24 02.70	+30 28 51.2	15.8	T	K 160
C/2020 PV_6	2021 08 14.88270	17 24 02.04	+30 28 48.3	15.9	T	K 160
C/2020 PV_6	2021 08 14.89682	17 23 59.23	+30 28 36.8	15.0	T	B96
C/2020 PV_6	2021 08 14.89845	17 23 58.91	+30 28 35.8	15.1	T	B96
C/2020 PV_6	2021 08 14.90009	17 23 58.58	+30 28 34.3	15.0	T	B96
C/2020 PV_6	2021 08 14.90173	17 23 58.33	+30 28 33.1	15.0	T	B96
C/2020 PV_6	2021 08 14.91020	17 23 56.82	+30 28 26.9	15.4	T	C23
C/2020 PV_6	2021 08 14.92174	17 23 54.58	+30 28 18.2	15.4	T	C23
C/2020 PV_6	2021 08 14.93329	17 23 52.39	+30 28 09.7	15.6	T	C23
C/2020 PV_6	2021 08 15.39164	17 22 25.64	+30 22 27.9	17	R	C51
Geocentric position (km)		− 1199.4510	− 5673.6112	+ 3641.7393		
C/2020 PV_6	2021 08 15.52190	17 22 01.12	+30 20 50.0			C51
Geocentric position (km)		− 1175.0374	− 5831.1869	+ 3392.9770		
C/2020 PV_6	2021 08 15.58774	17 21 48.80	+30 20 00.1			C51
Geocentric position (km)		− 1181.1874	− 5665.6552	+ 3660.0129		
C/2020 PV_6	2021 08 15.65306	17 21 36.55	+30 19 10.0			C51
Geocentric position (km)		− 1174.0750	− 5678.3039	+ 3642.7073		
C/2020 PV_6	2021 08 15.71838	17 21 24.40	+30 18 20.6			C51
Geocentric position (km)		− 1166.9255	− 5690.8953	+ 3625.3732		
C/2020 PV_6	2021 08 15.78371	17 21 12.21	+30 17 30.8			C51
Geocentric position (km)		− 1159.7389	− 5703.4035	+ 3608.0276		
C/2020 PV_6	2021 08 15.84916	17 21 00.01	+30 16 41.1			C51
Geocentric position (km)		− 1155.8542	− 5670.2075	+ 3661.0729		
C/2020 PV_6	2021 08 15.97981	17 20 35.80	+30 15 01.3			C51
Geocentric position (km)		− 1141.4838	− 5695.3553	+ 3626.4834		
C/2020 PV_6	2021 08 16.00983	17 20 30.04	+30 14 35.8	16.6	T	K I81
C/2020 PV_6	2021 08 16.01542	17 20 28.99	+30 14 31.4	15.2	T	K I81
C/2020 PV_6	2021 08 16.02101	17 20 27.96	+30 14 27.0	13.9	T	K I81
C/2020 PV_6	2021 08 16.85745	17 17 55.32	+30 03 42.8	15.7	T	C23
C/2020 PV_6	2021 08 16.86178	17 17 54.51	+30 03 39.3	15.6	T	C23
C/2020 PV_6	2021 08 16.86611	17 17 53.73	+30 03 36.0	15.7	T	C23
C/2020 PV_6	2021 08 16.89888	17 17 47.85	+30 03 10.6	15.0	T	K 204
C/2020 PV_6	2021 08 16.90420	17 17 46.69	+30 03 05.9	15.1	T	B96
C/2020 PV_6	2021 08 16.90453	17 17 46.98	+30 03 07.7	15.4	N	I72
C/2020 PV_6	2021 08 16.90911	17 17 45.81	+30 03 02.1	15.1	T	B96
C/2020 PV_6	2021 08 16.91405	17 17 44.93	+30 02 58.1	15.0	T	B96
C/2020 PV_6	2021 08 16.92377	17 17 43.48	+30 02 52.5	15.4	N	I72
C/2020 PV_6	2021 08 16.93100	17 17 42.12	+30 02 46.2			K 204
C/2020 PV_6	2021 08 16.94262	17 17 40.06	+30 02 37.8	15.4	N	I72
C/2020 PV_6	2021 08 16.96528	17 17 35.80	+30 02 18.3	15.2	T	K 970
C/2020 PV_6	2021 08 16.96942	17 17 35.06	+30 02 15.0	15.2	T	K 970
C/2020 PV_6	2021 08 17.321640	17 16 32.18	+29 57 42.0	14.88o		T05
C/2020 PV_6	2021 08 17.324852	17 16 31.61	+29 57 39.5	14.88o		T05
C/2020 PV_6	2021 08 17.331732	17 16 30.33	+29 57 34.2	15.79o		T05
C/2020 PV_6	2021 08 17.348535	17 16 27.35	+29 57 20.7	14.90o		T05
C/2020 PV_6	2021 08 17.88904	17 14 52.26	+29 50 12.7	15.4	N	232
C/2020 PV_6	2021 08 17.89426	17 14 51.25	+29 50 08.8	15.4	N	C35
C/2020 PV_6	2021 08 17.89487	17 14 51.16	+29 50 08.1	15.3	N	C35
C/2020 PV_6	2021 08 17.89549	17 14 51.05	+29 50 07.8	15.4	N	C35
C/2020 PV_6	2021 08 17.89689	17 14 50.83	+29 50 06.5	15.4	N	232
C/2020 PV_6	2021 08 17.90253	17 14 49.83	+29 50 02.0	15.4	N	232
C/2020 PV_6	2021 08 17.93643	17 14 43.87	+29 49 35.7	15.5	N	Z55
C/2020 PV_6	2021 08 17.93691	17 14 43.78	+29 49 34.9	15.4	N	Z55
C/2020 PV_6	2021 08 17.93740	17 14 43.70	+29 49 34.9	15.5	N	Z55
C/2020 PV_6	2021 08 17.93788	17 14 43.57	+29 49 34.4	15.5	N	Z55
C/2020 PV_6	2021 08 17.93836	17 14 43.50	+29 49 34.1	15.4	N	Z55
C/2020 PV_6	2021 08 18.51508	17 13 03.88	+29 41 54.9	14.0	T	349
C/2020 PV_6	2021 08 18.52201	17 13 02.68	+29 41 49.6			349
C/2020 PV_6	2021 08 18.52897	17 13 01.46	+29 41 44.0			349
C/2020 PV_6	2021 08 18.836343	17 12 09.23	+29 37 36.2	15.3	T	G23
C/2020 PV_6	2021 08 18.856215	17 12 05.85	+29 37 19.6	15.0	T	G23
C/2020 PV_6	2021 08 18.877523	17 12 02.22	+29 37 03.0	15.3	T	G23
C/2020 PV_6	2021 08 18.88843	17 12 00.28	+29 36 55.5	15.4	N	J36
C/2020 PV_6	2021 08 18.89330	17 11 59.46	+29 36 51.1	15.4	N	J36
C/2020 PV_6	2021 08 18.89574	17 11 59.03	+29 36 49.0	15.4	N	J36
C/2020 PV_6	2021 08 18.94848	17 11 50.11	+29 36 06.2	15.4	N	J01
C/2020 PV_6	2021 08 18.96902	17 11 46.61	+29 35 48.9	15.4	N	J01
C/2020 PV_6	2021 08 18.98045	17 11 44.77	+29 35 40.3	15.4	N	J01
C/2020 PV_6	2021 08 19.263807	17 10 57.21	+29 31 53.9	14.90o		T08
C/2020 PV_6	2021 08 19.273493	17 10 55.52	+29 31 46.2	15.82o		T08
C/2020 PV_6	2021 08 19.295809	17 10 51.75	+29 31 28.1	15.85o		T08
C/2020 PV_6	2021 08 19.300358	17 10 50.98	+29 31 24.5	15.82o		T08
C/2020 PV_6	2021 08 19.83515	17 09 22.48	+29 24 08.9	15.5	N	Z55
C/2020 PV_6	2021 08 19.83862	17 09 21.88	+29 24 06.1	15.5	N	Z55
C/2020 PV_6	2021 08 19.83931	17 09 21.77	+29 24 05.7	15.5	N	Z55
C/2020 PV_6	2021 08 19.84009	17 09 21.66	+29 24 04.9	15.4	N	Z55
C/2020 PV_6	2021 08 19.84075	17 09 21.54	+29 24 04.4	15.4	N	Z55
C/2020 PV_6	2021 08 20.80729	17 06 45.15	+29 10 52.6	15.6	T	A98
C/2020 PV_6	2021 08 20.81903	17 06 43.15	+29 10 41.9	15.8	T	A98
C/2020 PV_6	2021 08 20.82050	17 06 43.01	+29 10 40.3	15.7	T	A98
C/2020 PV_6	2021 08 20.82417	17 06 42.38	+29 10 37.8	15.1	T	A98
C/2020 PV_6	2021 08 20.82638	17 06 42.00	+29 10 36.2	15.4	T	A98
C/2020 PV_6	2021 08 20.82785	17 06 41.82	+29 10 34.7	15.4	T	A98
C/2020 PV_6	2021 08 20.85079	17 06 38.29	+29 10 17.4	15.4	V	Z55
C/2020 PV_6	2021 08 20.85139	17 06 38.16	+29 10 17.0	15.5	V	Z55
C/2020 PV_6	2021 08 20.85199	17 06 38.08	+29 10 16.4	15.4	V	Z55
C/2020 PV_6	2021 08 20.85260	17 06 37.98	+29 10 15.8			Z55
C/2020 PV_6	2021 08 20.85320	17 06 37.89	+29 10 15.4			Z55
C/2020 PV_6	2021 08 20.85381	17 06 37.80	+29 10 15.0	15.4	V	Z55
C/2020 PV_6	2021 08 20.85441	17 06 37.71	+29 10 14.4	15.4	V	Z55
C/2020 PV_6	2021 08 20.85502	17 06 37.59	+29 10 13.9			Z55
C/2020 PV_6	2021 08 20.85562	17 06 37.50	+29 10 13.4			Z55
C/2020 PV_6	2021 08 20.85623	17 06 37.42	+29 10 12.8			Z55
C/2020 PV_6	2021 08 20.85683	17 06 37.32	+29 10 12.4	15.5	V	Z55
C/2020 PV_6	2021 08 20.85744	17 06 37.21	+29 10 12.0			Z55
C/2020 PV_6	2021 08 20.85804	17 06 37.12	+29 10 11.6	15.4	V	Z55
C/2020 PV_6	2021 08 20.85864	17 06 37.01	+29 10 10.8			Z55

C/2020 PV_6	2021 08 20.85925	17 06 36.95	+29 10 10.2	15.3	V	Z55
C/2020 PV_6	2021 08 20.85985	17 06 36.80	+29 10 09.9	15.5	V	Z55
C/2020 PV_6	2021 08 20.86046	17 06 36.73	+29 10 09.3	15.4	V	Z55
C/2020 PV_6	2021 08 20.86106	17 06 36.62	+29 10 08.7	15.4	V	Z55
C/2020 PV_6	2021 08 20.86167	17 06 36.53	+29 10 08.4	15.5	V	Z55
C/2020 PV_6	2021 08 20.86227	17 06 36.43	+29 10 08.0	15.6	V	Z55
C/2020 PV_6	2021 08 20.86288	17 06 36.32	+29 10 07.4	15.4	V	Z55
C/2020 PV_6	2021 08 20.86348	17 06 36.24	+29 10 07.1	15.4	V	Z55
C/2020 PV_6	2021 08 20.86469	17 06 36.04	+29 10 06.0	15.5	V	Z55
C/2020 PV_6	2021 08 20.86529	17 06 35.95	+29 10 05.5	15.5	V	Z55
C/2020 PV_6	2021 08 20.88771	17 06 32.20	+29 09 45.8	15.6	T	A77
C/2020 PV_6	2021 08 20.89184	17 06 31.54	+29 09 42.2	15.3	T	A77
C/2020 PV_6	2021 08 20.89681	17 06 30.75	+29 09 38.4	15.2	T	A77
C/2020 PV_6	2021 08 20.90328	17 06 29.80	+29 09 33.7	15.4	N	J36
C/2020 PV_6	2021 08 20.90917	17 06 28.89	+29 09 29.1	15.4	N	J36
C/2020 PV_6	2021 08 20.91638	17 06 27.74	+29 09 23.3	15.5	N	J36
C/2020 PV_6	2021 08 21.310106	17 05 25.73	+29 03 59.6	14.91o		T05
C/2020 PV_6	2021 08 21.313306	17 05 25.21	+29 03 56.9	14.93o		T05
C/2020 PV_6	2021 08 21.318891	17 05 24.35	+29 03 52.3	14.90o		T05
C/2020 PV_6	2021 08 21.328974	17 05 22.74	+29 03 44.0	14.94o		T05
C/2020 PV_6	2021 08 22.300560	17 02 53.012	+28 50 18.24	16.50i		F52
C/2020 PV_6	2021 08 22.312132	17 02 51.237	+28 50 08.54	16.52i		F52
C/2020 PV_6	2021 08 22.323701	17 02 49.467	+28 49 58.87	16.39i		F52
C/2020 PV_6	2021 08 22.335297	17 02 47.693	+28 49 49.10	16.39i		F52
C/2020 PV_6	2021 08 23.83151	16 59 06.82	+28 28 56.0	15.4	T	K G18
C/2020 PV_6	2021 08 23.84830	16 59 04.38	+28 28 41.8	15.8	T	K G18
C/2020 PV_6	2021 08 23.86590	16 59 01.83	+28 28 26.9	16.2	T	K G18
C/2020 PV_6	2021 08 23.87918	16 58 59.96	+28 28 15.2	15.3	G	G06
C/2020 PV_6	2021 08 23.87934	16 58 59.94	+28 28 14.9	15.7	T	C23
C/2020 PV_6	2021 08 23.88359	16 58 59.32	+28 28 11.4	15.3	G	G06
C/2020 PV_6	2021 08 23.88367	16 58 59.33	+28 28 11.2	15.6	T	C23
C/2020 PV_6	2021 08 23.88796	16 58 58.71	+28 28 07.7	15.4	G	G06
C/2020 PV_6	2021 08 23.88800	16 58 58.76	+28 28 07.7	15.4	T	C23
C/2020 PV_6	2021 08 23.92140	16 58 53.85	+28 27 39.5	15.3	T	K 970
C/2020 PV_6	2021 08 23.92552	16 58 53.26	+28 27 36.1	15.3	T	K 970
C/2020 PV_6	2021 08 24.212627	16 58 12.30	+28 23 35.6			01 658
C/2020 PV_6	2021 08 24.218206	16 58 11.50	+28 23 30.8			01 658
C/2020 PV_6	2021 08 24.221551	16 58 11.03	+28 23 27.9			01 658
C/2020 PV_6	2021 08 24.224907	16 58 10.55	+28 23 25.0			01 658
C/2020 PV_6	2021 08 24.228252	16 58 10.07	+28 23 22.1			01 658
C/2020 PV_6	2021 08 24.56560	16 57 22.34	+28 18 43.9	14.3	T	G26
C/2020 PV_6	2021 08 24.63550	16 57 12.49	+28 17 36.2	14.3	T	G26
C/2020 PV_6	2021 08 24.87622	16 56 39.07	+28 14 16.5	15.3	T	G20
C/2020 PV_6	2021 08 24.87981	16 56 38.51	+28 14 14.3	15.6	T	G20
C/2020 PV_6	2021 08 24.88781	16 56 37.40	+28 14 07.2	15.4	T	G20
C/2020 PV_6	2021 08 25.216169	16 55 52.06	+28 09 30.4			01 658
C/2020 PV_6	2021 08 25.219514	16 55 51.60	+28 09 27.5			01 658
C/2020 PV_6	2021 08 25.223982	16 55 50.99	+28 09 23.6			01 658
C/2020 PV_6	2021 08 25.228449	16 55 50.37	+28 09 19.7			01 658
C/2020 PV_6	2021 08 25.232905	16 55 49.76	+28 09 15.8			01 658
C/2020 PV_6	2021 08 25.237373	16 55 49.14	+28 09 11.9			01 658
C/2020 PV_6	2021 08 25.338870	16 55 35.25	+28 07 47.9	14.76o		T05
C/2020 PV_6	2021 08 25.345748	16 55 34.23	+28 07 42.4	15.78o		T05
C/2020 PV_6	2021 08 25.348979	16 55 33.84	+28 07 39.4	14.83o		T05
C/2020 PV_6	2021 08 25.359107	16 55 32.43	+28 07 30.8	14.93o		T05
C/2020 PV_6	2021 08 25.82580	16 54 29.27	+28 00 55.6	15.3	T	K 215
C/2020 PV_6	2021 08 25.82709	16 54 29.10	+28 00 54.5	15.3	T	K 215
C/2020 PV_6	2021 08 25.82838	16 54 28.93	+28 00 53.5	15.3	T	K 215
C/2020 PV_6	2021 08 25.84039	16 54 27.30	+28 00 42.7	15.4	T	C23
C/2020 PV_6	2021 08 25.84184	16 54 27.12	+28 00 42.0	15.7	T	C23
C/2020 PV_6	2021 08 25.84299	16 54 26.90	+28 00 41.0	15.7	T	C23
C/2020 PV_6	2021 08 25.87618	16 54 22.42	+28 00 13.2	16.2	T	K 160
C/2020 PV_6	2021 08 25.88150	16 54 21.67	+28 00 08.5	16.2	T	K 160
C/2020 PV_6	2021 08 25.88662	16 54 20.99	+28 00 04.5	16.2	T	K 160
C/2020 PV_6	2021 08 26.233128	16 53 35.11	+27 55 13.7			703
C/2020 PV_6	2021 08 26.238463	16 53 34.31	+27 55 08.4	14.95G		703
C/2020 PV_6	2021 08 26.243794	16 53 33.53	+27 55 02.9	14.87G		703
C/2020 PV_6	2021 08 26.249126	16 53 32.74	+27 54 57.3	14.83G		703
C/2020 PV_6	2021 08 26.59701	16 52 46.87	+27 49 57.3	13.3	T	G26
C/2020 PV_6	2021 08 26.61913	16 52 43.95	+27 49 47.0	13.5	T	G26
C/2020 PV_6	2021 08 26.86492	16 52 12.02	+27 46 18.7	15.4	N	I88
C/2020 PV_6	2021 08 26.87965	16 52 10.11	+27 46 06.2	15.4	N	I88
C/2020 PV_6	2021 08 26.92385	16 52 04.35	+27 45 28.8	15.4	N	I88
C/2020 PV_6	2021 08 27.211611	16 51 27.41	+27 41 25.2			703
C/2020 PV_6	2021 08 27.222307	16 51 26.00	+27 41 13.6	14.75G		703
C/2020 PV_6	2021 08 27.289822	16 51 17.39	+27 40 20.9	14.97o		T08
C/2020 PV_6	2021 08 27.292807	16 51 17.00	+27 40 18.3	14.94o		T08
C/2020 PV_6	2021 08 27.311857	16 51 14.55	+27 40 02.2	14.91o		T08
C/2020 PV_6	2021 08 27.46956	16 50 54.46	+27 37 48.3			Q11
C/2020 PV_6	2021 08 27.47875	16 50 53.28	+27 37 40.6			Q11
C/2020 PV_6	2021 08 27.48653	16 50 52.28	+27 37 33.8	13.9	T	Q11
C/2020 PV_6	2021 08 27.89241	16 50 01.22	+27 31 49.4	15.4	T	K I81
C/2020 PV_6	2021 08 27.89420	16 50 00.99	+27 31 47.9	15.4	T	K I81
C/2020 PV_6	2021 08 27.89601	16 50 00.76	+27 31 46.3	15.3	T	K I81
C/2020 PV_6	2021 08 27.89648	16 50 00.71	+27 31 46.5	15.5	N	J01
C/2020 PV_6	2021 08 27.91479	16 49 58.41	+27 31 31.2	15.6	N	J01
C/2020 PV_6	2021 08 27.92395	16 49 57.23	+27 31 23.4	15.6	N	J01
C/2020 PV_6	2021 08 28.50235	16 48 45.74	+27 23 16.4	13.9	T	Q11
C/2020 PV_6	2021 08 28.51083	16 48 44.69	+27 23 09.0			Q11
C/2020 PV_6	2021 08 28.51860	16 48 43.73	+27 23 02.4			Q11
C/2020 PV_6	2021 08 29.242330	16 47 16.64	+27 12 53.6	15.32c		T05
C/2020 PV_6	2021 08 29.247859	16 47 15.96	+27 12 49.0	15.29c		T05
C/2020 PV_6	2021 08 29.251523	16 47 15.53	+27 12 45.9	15.29c		T05
C/2020 PV_6	2021 08 29.267870	16 47 13.56	+27 12 32.0	15.29c		T05
C/2020 PV_6	2021 08 29.50422	16 46 45.46	+27 09 12.0			K 367
C/2020 PV_6	2021 08 29.50625	16 46 45.22	+27 09 10.1			K 367
C/2020 PV_6	2021 08 29.50747	16 46 45.07	+27 09 09.3	14.1	T	K 367
C/2020 PV_6	2021 08 29.79644	16 46 11.22	+27 05 05.9	16.0	T	K 160
C/2020 PV_6	2021 08 29.79911	16 46 10.91	+27 05 03.7	16.0	T	K 160
C/2020 PV_6	2021 08 29.80003	16 46 10.76	+27 05 02.6	15.7	T	K L47
C/2020 PV_6	2021 08 29.80178	16 46 10.58	+27 05 01.4	15.9	T	K 160
C/2020 PV_6	2021 08 29.81707	16 46 08.84	+27 04 48.0	16.6	T	K L47
C/2020 PV_6	2021 08 30.83465	16 44 12.38	+26 50 34.4	15.7	T	C23
C/2020 PV_6	2021 08 30.83898	16 44 11.85	+26 50 30.7	15.9	T	C23
C/2020 PV_6	2021 08 30.84476	16 44 11.20	+26 50 25.8	15.9	T	C23
C/2020 PV_6	2021 08 30.84504	16 44 11.21	+26 50 26.6	15.5	N	Z55

C/2020 PV_6	2021 08 30.84563	16 44 11.13	+26 50 26.1	15.5	N	Z55
C/2020 PV_6	2021 08 30.84623	16 44 11.04	+26 50 26.0	15.6	N	Z55
C/2020 PV_6	2021 08 30.84682	16 44 11.01	+26 50 24.9	15.6	N	Z55
C/2020 PV_6	2021 08 30.84742	16 44 10.95	+26 50 24.6	15.5	N	Z55
C/2020 PV_6	2021 08 30.84757	16 44 10.61	+26 50 22.8	17.0	T	K L47
C/2020 PV_6	2021 08 30.86292	16 44 09.13	+26 50 11.5	16.4	T	K L47
C/2020 PV_6	2021 08 30.87439	16 44 07.86	+26 50 02.0	15.7	T	Z10
C/2020 PV_6	2021 08 30.87973	16 44 07.25	+26 49 57.5	15.7	T	Z10
C/2020 PV_6	2021 08 30.88581	16 44 06.57	+26 49 52.3	15.8	T	Z10
C/2020 PV_6	2021 08 31.317685	16 43 18.51	+26 43 52.3	15.20o		T08
C/2020 PV_6	2021 08 31.323216	16 43 17.86	+26 43 47.7	15.93o		T08
C/2020 PV_6	2021 08 31.327377	16 43 17.44	+26 43 44.0	15.10o		T08
C/2020 PV_6	2021 08 31.340317	16 43 15.96	+26 43 33.3	15.94o		T08
C/2020 PV_6	2021 08 31.82289	16 42 23.38	+26 36 49.4	15.4	T	K L63
C/2020 PV_6	2021 08 31.83026	16 42 22.56	+26 36 43.2	15.5	T	K L63
C/2020 PV_6	2021 08 31.83761	16 42 21.77	+26 36 37.1	15.4	T	K L63
C/2020 PV_6	2021 08 31.88398	16 42 16.75	+26 35 57.7	15.3	T	K I81
C/2020 PV_6	2021 08 31.88578	16 42 16.55	+26 35 56.1	15.2	T	K I81
C/2020 PV_6	2021 08 31.88758	16 42 16.35	+26 35 54.6	15.3	T	K I81
C/2020 PV_6	2021 09 01.81831	16 40 37.51	+26 23 02.4	16.5	T	A77
C/2020 PV_6	2021 09 01.82588	16 40 36.70	+26 22 56.3	16.4	T	A77
C/2020 PV_6	2021 09 01.83272	16 40 36.01	+26 22 50.6	14.2	T	A77
C/2020 PV_6	2021 09 02.78687	16 38 58.46	+26 09 42.4	15.6	T	K A71
C/2020 PV_6	2021 09 02.78819	16 38 58.32	+26 09 41.4	15.7	T	K A71
C/2020 PV_6	2021 09 02.78953	16 38 58.20	+26 09 40.2	15.7	T	K A71
C/2020 PV_6	2021 09 02.79064	16 38 58.10	+26 09 39.4	15.7	T	K A71
C/2020 PV_6	2021 09 02.84132	16 38 52.93	+26 08 57.1	15.4	T	G06
C/2020 PV_6	2021 09 02.85928	16 38 51.12	+26 08 42.3	15.5	T	G06
C/2020 PV_6	2021 09 02.86287	16 38 50.78	+26 08 39.4	15.4	T	G06
C/2020 PV_6	2021 09 02.86647	16 38 50.40	+26 08 36.3	15.4	T	G06
C/2020 PV_6	2021 09 02.87202	16 38 49.83	+26 08 32.2	15.2	T	C10
C/2020 PV_6	2021 09 02.88290	16 38 48.69	+26 08 21.5	15.2	T	C10
C/2020 PV_6	2021 09 02.89453	16 38 47.57	+26 08 13.6	15.2	T	C10
C/2020 PV_6	2021 09 03.81619	16 37 17.05	+25 55 39.2	16.4	T	K L47
C/2020 PV_6	2021 09 03.83216	16 37 15.25	+25 55 24.7	16.9	T	K L47
C/2020 PV_6	2021 09 03.83272	16 37 15.39	+25 55 25.4			Z55
C/2020 PV_6	2021 09 03.83379	16 37 15.30	+25 55 24.5			Z55
C/2020 PV_6	2021 09 03.83486	16 37 15.17	+25 55 23.7			Z55
C/2020 PV_6	2021 09 03.83592	16 37 15.09	+25 55 22.7			Z55
C/2020 PV_6	2021 09 03.83699	16 37 14.93	+25 55 21.9			Z55
C/2020 PV_6	2021 09 03.83806	16 37 14.85	+25 55 20.9			Z55
C/2020 PV_6	2021 09 03.83913	16 37 14.75	+25 55 19.9			Z55
C/2020 PV_6	2021 09 03.85947	16 37 12.72	+25 55 03.7	15.7	T	Z45
C/2020 PV_6	2021 09 03.87705	16 37 10.97	+25 54 49.7	15.5	T	Z45
C/2020 PV_6	2021 09 03.88972	16 37 09.77	+25 54 37.6	16.9	T	K40
C/2020 PV_6	2021 09 03.89273	16 37 09.49	+25 54 36.2	15.8	T	Z45
C/2020 PV_6	2021 09 03.89619	16 37 09.16	+25 54 32.3	16.9	T	K40
C/2020 PV_6	2021 09 03.90852	16 37 07.92	+25 54 23.5	15.9	T	Z45
C/2020 PV_6	2021 09 03.92126	16 37 06.70	+25 54 12.7	15.8	T	Z45
C/2020 PV_6	2021 09 04.277475	16 36 32.696	+25 49 24.20	16.32w		F52
C/2020 PV_6	2021 09 04.290233	16 36 31.443	+25 49 13.42	16.31w		F52
C/2020 PV_6	2021 09 04.296586	16 36 30.91	+25 49 08.3	15.12o		T08
C/2020 PV_6	2021 09 04.299815	16 36 30.60	+25 49 05.7	15.12o		T08
C/2020 PV_6	2021 09 04.302986	16 36 30.236	+25 49 03.02	16.25w		F52
C/2020 PV_6	2021 09 04.307655	16 36 29.80	+25 48 59.3	15.96o		T08
C/2020 PV_6	2021 09 04.315749	16 36 29.017	+25 48 52.86	16.20w		F52
C/2020 PV_6	2021 09 04.320572	16 36 28.56	+25 48 48.7	15.96o		T08
C/2020 PV_6	2021 09 04.85913	16 35 38.15	+25 41 30.4	15.7	T	Z10
C/2020 PV_6	2021 09 04.86293	16 35 37.78	+25 41 27.4	15.8	T	Z10
C/2020 PV_6	2021 09 04.86825	16 35 37.29	+25 41 23.0	15.9	T	Z10
C/2020 PV_6	2021 09 04.87620	16 35 36.51	+25 41 16.3	16.2	T	K83
C/2020 PV_6	2021 09 04.87853	16 35 36.33	+25 41 14.1	16.2	T	K83
C/2020 PV_6	2021 09 04.88086	16 35 36.07	+25 41 12.2	16.1	T	K83
C/2020 PV_6	2021 09 04.88898	16 35 35.41	+25 41 05.8	15.6	N	J01
C/2020 PV_6	2021 09 04.90368	16 35 33.99	+25 40 53.8	15.6	N	J01
C/2020 PV_6	2021 09 04.91473	16 35 33.00	+25 40 45.3	15.6	N	J01
C/2020 PV_6	2021 09 04.99026	16 35 25.97	+25 39 42.8	15.6	N	J38
C/2020 PV_6	2021 09 04.99479	16 35 25.50	+25 39 40.0	15.7	N	J38
C/2020 PV_6	2021 09 04.99782	16 35 25.17	+25 39 37.5	15.7	N	J38
C/2020 PV_6	2021 09 05.80946	16 34 11.56	+25 28 42.9	15.3	T	B96
C/2020 PV_6	2021 09 05.81439	16 34 11.09	+25 28 38.8	15.3	T	B96
C/2020 PV_6	2021 09 05.81932	16 34 10.63	+25 28 35.0	15.3	T	B96
C/2020 PV_6	2021 09 06.83331	16 32 41.88	+25 15 05.1	15.8	T	C23
C/2020 PV_6	2021 09 06.84053	16 32 41.27	+25 14 59.3	15.9	T	C23
C/2020 PV_6	2021 09 06.84630	16 32 40.76	+25 14 54.7	15.8	T	C23
C/2020 PV_6	2021 09 06.93666	16 32 33.04	+25 13 41.8	15.4	T	I81
C/2020 PV_6	2021 09 06.94166	16 32 32.60	+25 13 38.0	15.4	T	I81
C/2020 PV_6	2021 09 07.56461	16 31 39.75	+25 05 25.0	14.3	T	G26
C/2020 PV_6	2021 09 07.61877	16 31 35.54	+25 04 40.8	14.2	T	G26
C/2020 PV_6	2021 09 07.82944	16 31 18.09	+25 01 57.9	15.7	N	Z55
C/2020 PV_6	2021 09 07.83016	16 31 18.03	+25 01 57.4	15.6	N	Z55
C/2020 PV_6	2021 09 07.83087	16 31 17.96	+25 01 56.9	15.7	N	Z55
C/2020 PV_6	2021 09 07.83158	16 31 17.88	+25 01 56.0	15.7	N	Z55
C/2020 PV_6	2021 09 07.83229	16 31 17.85	+25 01 55.6	15.7	N	Z55
C/2020 PV_6	2021 09 07.86954	16 31 14.73	+25 01 25.4	15.6	T	K 970
C/2020 PV_6	2021 09 07.87412	16 31 14.37	+25 01 21.6	15.5	T	K 970
C/2020 PV_6	2021 09 07.94178	16 31 08.81	+25 00 28.2	15.4	T	I81
C/2020 PV_6	2021 09 07.94600	16 31 08.46	+25 00 24.6	15.4	T	I81
C/2020 PV_6	2021 09 07.94881	16 31 08.23	+25 00 22.1	15.4	T	I81
C/2020 PV_6	2021 09 08.287014	16 30 40.65	+24 55 59.5	15.11o		T08
C/2020 PV_6	2021 09 08.290700	16 30 40.30	+24 55 56.7	16.03o		T08
C/2020 PV_6	2021 09 08.297153	16 30 39.78	+24 55 51.6	16.08o		T08
C/2020 PV_6	2021 09 08.308217	16 30 38.87	+24 55 42.9	16.02o		T08
C/2020 PV_6	2021 09 08.82532	16 29 57.57	+24 48 57.5	16.7	T	A77
C/2020 PV_6	2021 09 08.83182	16 29 57.01	+24 48 53.0	16.6	T	A77
C/2020 PV_6	2021 09 08.83911	16 29 56.43	+24 48 46.6	14.1	T	A77
C/2020 PV_6	2021 09 08.84581	16 29 55.92	+24 48 41.6	15.6	T	K L63
C/2020 PV_6	2021 09 08.85170	16 29 55.47	+24 48 37.2	15.6	T	K L63
C/2020 PV_6	2021 09 08.85795	16 29 55.00	+24 48 32.3	15.6	T	K L63
C/2020 PV_6	2021 09 09.46251	16 29 07.80	+24 40 43.8			P87
C/2020 PV_6	2021 09 09.46980	16 29 07.24	+24 40 38.0	15.9	T	P87
C/2020 PV_6	2021 09 09.73838	16 28 46.66	+24 37 10.2	14.8	T	L60
C/2020 PV_6	2021 09 09.73988	16 28 46.54	+24 37 09.1			L60
C/2020 PV_6	2021 09 09.74110	16 28 46.44	+24 37 08.2			L60
C/2020 PV_6	2021 09 09.74231	16 28 46.35	+24 37 07.3			L60
C/2020 PV_6	2021 09 09.74352	16 28 46.25	+24 37 06.4			L60

C/2020 PV_6	2021 09 09.77772	16 28 43.53	+24 36 38.8	15.4	T	A98
C/2020 PV_6	2021 09 09.77925	16 28 43.34	+24 36 38.3	15.6	T	A98
C/2020 PV_6	2021 09 09.78230	16 28 43.16	+24 36 35.7	15.0	T	A98
C/2020 PV_6	2021 09 09.80358	16 28 41.52	+24 36 19.3	15.2	T	A98
C/2020 PV_6	2021 09 09.80663	16 28 41.31	+24 36 17.1	15.2	T	A98
C/2020 PV_6	2021 09 09.80816	16 28 41.26	+24 36 15.9	15.5	T	A98
C/2020 PV_6	2021 09 10.168142	16 28 14.19	+24 31 40.7	14.72G		703
C/2020 PV_6	2021 09 10.173375	16 28 13.79	+24 31 36.7	14.72G		703
C/2020 PV_6	2021 09 10.178616	16 28 13.39	+24 31 32.6	14.73G		703
C/2020 PV_6	2021 09 10.183856	16 28 12.95	+24 31 28.5	14.76G		703
C/2020 PV_6	2021 09 10.225020	16 28 09.91	+24 30 58.6	15.30c		T05
C/2020 PV_6	2021 09 10.228223	16 28 09.64	+24 30 56.2	15.52c		T05
C/2020 PV_6	2021 09 10.233900	16 28 09.19	+24 30 51.6	15.52c		T05
C/2020 PV_6	2021 09 10.248633	16 28 08.09	+24 30 40.2	15.38c		T05
C/2020 PV_6	2021 09 10.41193	16 27 55.94	+24 28 38.2	15.2	T	Q38
C/2020 PV_6	2021 09 10.41391	16 27 55.80	+24 28 36.9	15.3	T	Q38
C/2020 PV_6	2021 09 10.41588	16 27 55.63	+24 28 35.4	15.5	T	Q38
C/2020 PV_6	2021 09 10.41749	16 27 55.52	+24 28 34.1	15.3	T	Q38
C/2020 PV_6	2021 09 10.810938	16 27 26.50	+24 23 29.2	15.6	T	G23
C/2020 PV_6	2021 09 10.81487	16 27 26.20	+24 23 26.1	15.9	T	L79
C/2020 PV_6	2021 09 10.81743	16 27 26.03	+24 23 23.6	16.0	T	L79
C/2020 PV_6	2021 09 10.81999	16 27 25.90	+24 23 22.5	16.0	T	L79
C/2020 PV_6	2021 09 10.830718	16 27 25.02	+24 23 14.2	15.6	T	G23
C/2020 PV_6	2021 09 10.851898	16 27 23.45	+24 23 00.1	15.6	T	G23
C/2020 PV_6	2021 09 10.85659	16 27 23.19	+24 22 55.0	15.6	N	J01
C/2020 PV_6	2021 09 10.86397	16 27 22.58	+24 22 49.3	15.7	N	J01
C/2020 PV_6	2021 09 10.86493	16 27 22.54	+24 22 48.8	15.7	N	Z55
C/2020 PV_6	2021 09 10.86600	16 27 22.45	+24 22 48.0	15.7	N	Z55
C/2020 PV_6	2021 09 10.86707	16 27 22.39	+24 22 47.0	15.6	N	Z55
C/2020 PV_6	2021 09 10.86764	16 27 22.36	+24 22 46.9	15.6	N	J01
C/2020 PV_6	2021 09 10.86813	16 27 22.33	+24 22 46.3	15.7	N	Z55
C/2020 PV_6	2021 09 10.86920	16 27 22.22	+24 22 45.7	15.7	N	Z55
C/2020 PV_6	2021 09 11.803113	16 26 15.53	+24 10 59.7	15.7	T	G23
C/2020 PV_6	2021 09 11.80645	16 26 15.30	+24 10 57.8	16.2	T	K 160
C/2020 PV_6	2021 09 11.81010	16 26 15.04	+24 10 55.0	16.2	T	K 160
C/2020 PV_6	2021 09 11.81363	16 26 14.80	+24 10 52.0	16.0	T	K 160
C/2020 PV_6	2021 09 11.822894	16 26 14.13	+24 10 45.0	15.8	T	G23
C/2020 PV_6	2021 09 11.83521	16 26 13.30	+24 10 36.8	16.0	T	G20
C/2020 PV_6	2021 09 11.84216	16 26 12.83	+24 10 31.7	16.1	T	G20
C/2020 PV_6	2021 09 11.844086	16 26 12.66	+24 10 28.9	15.6	T	G23
C/2020 PV_6	2021 09 11.84989	16 26 12.28	+24 10 25.3	16.1	T	G20
C/2020 PV_6	2021 09 11.85034	16 26 12.22	+24 10 24.7	15.7	N	J01
C/2020 PV_6	2021 09 11.86137	16 26 11.47	+24 10 16.1	15.8	N	J01
C/2020 PV_6	2021 09 11.86373	16 26 11.29	+24 10 14.5	15.6	N	J38
C/2020 PV_6	2021 09 11.86593	16 26 11.06	+24 10 12.9	15.6	N	J38
C/2020 PV_6	2021 09 11.87241	16 26 10.71	+24 10 07.7	15.7	N	J01
C/2020 PV_6	2021 09 12.85431	16 25 03.52	+23 57 55.7	15.8	N	J38
C/2020 PV_6	2021 09 12.85617	16 25 03.41	+23 57 53.9	15.8	N	J38
C/2020 PV_6	2021 09 12.86362	16 25 02.89	+23 57 48.7	15.8	N	J38
C/2020 PV_6	2021 09 13.179641	16 24 41.88	+23 53 55.3			01 658
C/2020 PV_6	2021 09 13.182998	16 24 41.66	+23 53 52.9			01 658
C/2020 PV_6	2021 09 13.186343	16 24 41.44	+23 53 50.3			01 658
C/2020 PV_6	2021 09 13.189687	16 24 41.22	+23 53 47.8			01 658
C/2020 PV_6	2021 09 13.193032	16 24 40.99	+23 53 45.3			01 658
C/2020 PV_6	2021 09 13.82896	16 23 59.56	+23 45 58.7	15.5	T	K G18
C/2020 PV_6	2021 09 13.85098	16 23 58.18	+23 45 42.0	15.4	T	K I81
C/2020 PV_6	2021 09 13.85101	16 23 58.12	+23 45 42.5	15.6	T	K G18
C/2020 PV_6	2021 09 13.85277	16 23 58.07	+23 45 40.6	15.4	T	K I81
C/2020 PV_6	2021 09 13.85454	16 23 57.95	+23 45 39.3	15.4	T	K I81
C/2020 PV_6	2021 09 14.184896	16 23 36.84	+23 41 39.2			01 658
C/2020 PV_6	2021 09 14.188241	16 23 36.64	+23 41 36.7			01 658
C/2020 PV_6	2021 09 14.191586	16 23 36.44	+23 41 34.3			01 658
C/2020 PV_6	2021 09 14.194931	16 23 36.23	+23 41 31.8			01 658
C/2020 PV_6	2021 09 14.198287	16 23 36.02	+23 41 29.3			01 658
C/2020 PV_6	2021 09 14.222363	16 23 34.64	+23 41 13.8	14.95o		T05
C/2020 PV_6	2021 09 14.225570	16 23 34.41	+23 41 11.3	14.98o		T05
C/2020 PV_6	2021 09 14.232449	16 23 33.98	+23 41 06.3	14.91o		T05
C/2020 PV_6	2021 09 14.243964	16 23 33.15	+23 40 57.9	15.93o		T05
C/2020 PV_6	2021 09 15.86420	16 21 54.29	+23 21 32.0	15.2	T	B96
C/2020 PV_6	2021 09 15.86913	16 21 54.00	+23 21 28.6	15.4	T	B96
C/2020 PV_6	2021 09 15.87142	16 21 53.94	+23 21 26.9	15.6	T	K 970
C/2020 PV_6	2021 09 15.87407	16 21 53.71	+23 21 24.5	15.4	T	B96
C/2020 PV_6	2021 09 15.87432	16 21 53.77	+23 21 24.8	15.6	T	K 970
C/2020 PV_6	2021 09 15.87774	16 21 53.52	+23 21 23.0	15.6	N	Z55
C/2020 PV_6	2021 09 15.87846	16 21 53.50	+23 21 22.7	15.7	N	Z55
C/2020 PV_6	2021 09 15.87918	16 21 53.46	+23 21 22.3	15.7	N	Z55
C/2020 PV_6	2021 09 15.87990	16 21 53.38	+23 21 21.9	15.7	N	Z55
C/2020 PV_6	2021 09 16.127930	16 21 39.12	+23 18 26.8	14.88G		703
C/2020 PV_6	2021 09 16.133672	16 21 38.78	+23 18 22.8	14.87G		703
C/2020 PV_6	2021 09 16.139411	16 21 38.46	+23 18 18.8	14.92G		703
C/2020 PV_6	2021 09 16.145147	16 21 38.10	+23 18 10.7	14.97G		703
C/2020 PV_6	2021 09 16.86842	16 20 56.57	+23 09 45.1	15.9	T	K Z10
C/2020 PV_6	2021 09 16.87452	16 20 56.23	+23 09 40.9	15.9	T	K Z10
C/2020 PV_6	2021 09 16.88136	16 20 55.83	+23 09 36.0	16.0	T	K Z10
C/2020 PV_6	2021 09 17.81526	16 20 04.41	+22 58 48.3	15.7	N	J36
C/2020 PV_6	2021 09 17.82437	16 20 03.94	+22 58 42.0	15.7	N	J36
C/2020 PV_6	2021 09 17.83754	16 20 03.26	+22 58 33.2	15.8	N	J36
C/2020 PV_6	2021 09 17.89620	16 20 00.08	+22 57 51.3	15.6	T	K 970
C/2020 PV_6	2021 09 17.89950	16 19 59.85	+22 57 48.9	15.6	T	K 970
C/2020 PV_6	2021 09 18.251233	16 19 41.20	+22 53 50.0	15.04o		T05
C/2020 PV_6	2021 09 18.254446	16 19 41.02	+22 53 47.6	15.09o		T05
C/2020 PV_6	2021 09 18.261342	16 19 40.65	+22 53 42.9	15.10o		T05
C/2020 PV_6	2021 09 18.271433	16 19 40.14	+22 53 35.9	14.95o		T05

C/2020 R2 (PANSTARRS)

C/2020 R2	2021 08 06.543540	01 56 27.16	+07 13 17.4	19.12c		T08
C/2020 R2	2021 08 06.550008	01 56 27.24	+07 13 15.5	19.12c		T08
C/2020 R2	2021 08 06.552886	01 56 27.33	+07 13 14.0	19.27c		T08
C/2020 R2	2021 08 06.563057	01 56 27.45	+07 13 10.5	19.41c		T08
C/2020 R2	2021 08 07.606085	01 56 45.00	+07 06 44.6	19.29c		T08
C/2020 R2	2021 08 07.611541	01 56 45.07	+07 06 42.2	18.83c		T08
C/2020 R2	2021 08 07.613383	01 56 44.95	+07 06 43.4	18.53c		T08
C/2020 R2	2021 08 07.620700	01 56 45.26	+07 06 38.9	19.14c		T08
C/2020 R2	2021 08 09.027890	01 57 07.79	+06 57 47.2	18.3	T	K L54
C/2020 R2	2021 08 09.035314	01 57 07.97	+06 57 43.0	18.3	T	K L54
C/2020 R2	2021 08 09.043564	01 57 08.12	+06 57 40.7	18.3	T	K L54

C/2020 R2	2021 08 09.585800	01 57 16.33	+06 54 10.7	19.03o		T05
C/2020 R2	2021 08 09.588603	01 57 16.44	+06 54 09.6	18.37o		T05
C/2020 R2	2021 08 09.613316	01 57 16.68	+06 54 00.8	18.33o		T05
C/2020 R2	2021 08 09.626127	01 57 16.84	+06 53 55.6	18.63o		T05
C/2020 R2	2021 08 10.10469	01 57 24.11	+06 50 48.3	18.6 T	K	215
C/2020 R2	2021 08 10.10663	01 57 24.14	+06 50 47.6	18.6 T	K	215
C/2020 R2	2021 08 10.10857	01 57 24.15	+06 50 46.7	18.7 T	K	215
C/2020 R2	2021 08 10.544729	01 57 30.50	+06 47 56.3	18.40c		T08
C/2020 R2	2021 08 10.547493	01 57 30.60	+06 47 54.6	19.21c		T08
C/2020 R2	2021 08 10.551183	01 57 30.66	+06 47 53.5	19.37c		T08
C/2020 R2	2021 08 10.559471	01 57 30.85	+06 47 50.0	19.56c		T08
C/2020 R2	2021 08 12.489299	01 57 57.48	+06 34 55.9	18.97o		T05
C/2020 R2	2021 08 12.510132	01 57 57.76	+06 34 48.0	18.93o		T05
C/2020 R2	2021 08 12.522127	01 57 57.85	+06 34 42.9	18.99o		T05
C/2020 R2	2021 08 12.525273	01 57 57.94	+06 34 41.6	18.77o		T05
C/2020 R2	2021 08 14.535138	01 58 22.90	+06 20 46.4	19.01c		T08
C/2020 R2	2021 08 14.543444	01 58 22.98	+06 20 43.6	18.70c		T08
C/2020 R2	2021 08 14.548058	01 58 23.04	+06 20 42.3	18.95c		T08
C/2020 R2	2021 08 14.558221	01 58 23.12	+06 20 37.6	19.09c		T08
C/2020 R2	2021 08 16.533635	01 58 44.86	+06 06 28.9	19.15o		T05
C/2020 R2	2021 08 16.537817	01 58 44.97	+06 06 27.5	18.70o		T05
C/2020 R2	2021 08 16.544722	01 58 45.06	+06 06 23.9	19.10o		T05
C/2020 R2	2021 08 16.560809	01 58 45.19	+06 06 17.9	18.50o		T05
C/2020 R2	2021 08 17.36591	01 58 53.25	+06 00 25.5	18.6 T		X03
C/2020 R2	2021 08 17.36831	01 58 53.31	+06 00 24.3	19.0 T		X03
C/2020 R2	2021 08 17.36958	01 58 53.28	+06 00 24.0	18.8 T	K	X03
C/2020 R2	2021 08 17.37084	01 58 53.28	+06 00 23.6	18.3 T		X03
C/2020 R2	2021 08 17.37325	01 58 53.32	+06 00 22.5	18.9 T		X03
C/2020 R2	2021 08 21.558863	01 59 27.917	+05 28 30.10	19.43i		F52
C/2020 R2	2021 08 21.571167	01 59 28.001	+05 28 24.55	19.34i		F52
C/2020 R2	2021 08 21.583523	01 59 28.076	+05 28 18.68	19.51i		F52
C/2020 R2	2021 08 21.595889	01 59 28.147	+05 28 12.94	19.47i		F52
C/2020 R2	2021 08 22.523586	01 59 34.08	+05 20 52.9	18.81o		T08
C/2020 R2	2021 08 22.525436	01 59 34.07	+05 20 51.9	18.91o		T08
C/2020 R2	2021 08 22.530971	01 59 34.14	+05 20 49.7	18.67o		T08
C/2020 R2	2021 08 22.537422	01 59 34.02	+05 20 47.7	18.87o		T08
C/2020 R2	2021 08 29.69326	01 59 59.12	+04 20 57.0		K	Q11
C/2020 R2	2021 08 29.69892	01 59 59.12	+04 20 54.1		K	Q11
C/2020 R2	2021 08 29.70493	01 59 59.12	+04 20 51.1	18.3 T	K	Q11
C/2020 R2	2021 09 03.516921	01 59 54.99	+03 37 31.1	18.75o		T08
C/2020 R2	2021 09 03.519224	01 59 54.95	+03 37 29.3	18.70o		T08
C/2020 R2	2021 09 03.520145	01 59 54.98	+03 37 28.8	18.71o		T08
C/2020 R2	2021 09 03.521989	01 59 54.96	+03 37 27.7	18.38o		T08
C/2020 R2	2021 09 03.524295	01 59 54.96	+03 37 26.8	18.77o		T08
C/2020 R2	2021 09 03.527059	01 59 54.89	+03 37 26.2	17.68o		T08
C/2020 R2	2021 09 03.529364	01 59 54.99	+03 37 24.0	18.85o		T08
C/2020 R2	2021 09 05.519747	01 59 48.38	+03 18 45.8	18.95c		T05
C/2020 R2	2021 09 05.525680	01 59 48.35	+03 18 43.8	19.09c		T05
C/2020 R2	2021 09 05.528896	01 59 48.26	+03 18 40.9	18.75c		T05
C/2020 R2	2021 09 05.540453	01 59 48.26	+03 18 34.7	18.16c		T05
C/2020 R2	2021 09 07.343054	01 59 39.76	+03 01 23.0	18.31G		703
C/2020 R2	2021 09 07.348382	01 59 39.74	+03 01 18.9	18.41G		703
C/2020 R2	2021 09 07.353712	01 59 39.75	+03 01 15.3	18.51G		703
C/2020 R2	2021 09 07.359045	01 59 39.81	+03 01 10.9			703
C/2020 R2	2021 09 07.516591	01 59 38.89	+02 59 41.8	18.54o		T08
C/2020 R2	2021 09 07.519876	01 59 38.88	+02 59 40.1	18.62o		T08
C/2020 R2	2021 09 07.524021	01 59 38.82	+02 59 37.2	18.35o		T08
C/2020 R2	2021 09 07.531919	01 59 38.81	+02 59 33.2	18.49o		T08
C/2020 R2	2021 09 10.400629	01 59 20.28	+02 31 29.4	18.37G		G96
C/2020 R2	2021 09 10.406266	01 59 20.25	+02 31 25.9	18.36G		G96
C/2020 R2	2021 09 10.411897	01 59 20.19	+02 31 22.6	18.35G		G96
C/2020 R2	2021 09 10.417527	01 59 20.16	+02 31 19.2	18.42G		G96
C/2020 R2	2021 09 10.590051	01 59 18.867	+02 29 36.67	19.62w		F51
C/2020 R2	2021 09 10.599466	01 59 18.790	+02 29 31.05	19.59w		F51
C/2020 R2	2021 09 10.608810	01 59 18.706	+02 29 25.49	19.54w		F51
C/2020 R2	2021 09 10.618090	01 59 18.633	+02 29 19.95	19.50w		F51
C/2020 R2	2021 09 10.97706	01 59 15.97	+02 25 44.2	18.4 T		A98
C/2020 R2	2021 09 10.97919	01 59 15.89	+02 25 43.1	17.8 T		A98
C/2020 R2	2021 09 10.98344	01 59 15.85	+02 25 41.0	18.1 T		A98
C/2020 R2	2021 09 10.98981	01 59 15.77	+02 25 37.0	17.9 T		A98
C/2020 R2	2021 09 10.99193	01 59 15.71	+02 25 35.7	18.2 T		A98
C/2020 R2	2021 09 11.334068	01 59 13.06	+02 22 12.5	18.67G		703
C/2020 R2	2021 09 11.339390	01 59 13.00	+02 22 08.8	18.32G		703
C/2020 R2	2021 09 11.344713	01 59 12.85	+02 22 05.9	17.92G		703
C/2020 R2	2021 09 11.350045	01 59 12.86	+02 22 02.8	17.94G		703
C/2020 R2	2021 09 14.340158	01 58 45.71	+01 51 49.5	18.38G		703
C/2020 R2	2021 09 14.345405	01 58 45.72	+01 51 46.7	18.14G		703
C/2020 R2	2021 09 14.350646	01 58 45.67	+01 51 42.6	18.59G		703
C/2020 R2	2021 09 14.355893	01 58 45.54	+01 51 39.7	18.11G		703
C/2020 R2	2021 09 17.484840	01 58 11.009	+01 19 18.18	19.12i		F51
C/2020 R2	2021 09 17.498084	01 58 10.849	+01 19 09.70	18.97i		F51
C/2020 R2	2021 09 17.511368	01 58 10.677	+01 19 01.43	19.09i		F51
C/2020 R2	2021 09 17.524856	01 58 10.501	+01 18 52.99	19.09i		F51

C/2020 R4 (ATLAS)

C/2020 R4	2021 06 09.92955	10 57 33.05	+19 52 58.6	16.7 T	K	204
C/2020 R4	2021 06 09.94201	10 57 32.61	+19 52 49.3		K	204

C/2020 R7 (ATLAS)

C/2020 R7	2021 06 05.82093	03 27 54.24	−43 23 27.7			01Q62
C/2020 R7	2021 06 05.82368	03 27 54.36	−43 23 28.4	16.8 T		01Q62
C/2020 R7	2021 08 11.50591	04 01 29.67	−56 07 20.0	18.0 T	K	E94
C/2020 R7	2021 08 11.51606	04 01 29.58	−56 07 31.0	17.0 T	K	E94
C/2020 R7	2021 08 11.52623	04 01 29.85	−56 07 42.1	17.0 T	K	E94
C/2020 R7	2021 08 11.53641	04 01 29.82	−56 07 52.1	17.0 T	K	E94
C/2020 R7	2021 08 13.39125	04 01 42.11	−56 40 39.4	17.5 T	23	W88
C/2020 R7	2021 08 13.40551	04 01 42.20	−56 40 54.3	17.4 T	23	W88
C/2020 R7	2021 08 13.41578	04 01 42.27	−56 41 06.1	17.4 T	23	W88
C/2020 R7	2021 08 14.72297	04 01 48.12	−57 04 28.7	16.2 T		67Q62
C/2020 R7	2021 08 14.72384	04 01 48.09	−57 04 29.9	16.9 N		67Q62
C/2020 R7	2021 08 14.72642	04 01 48.12	−57 04 32.4			67Q62
C/2020 R7	2021 08 14.72728	04 01 48.16	−57 04 33.4			67Q62
C/2020 R7	2021 09 12.68753	03 48 30.87	−66 25 10.0	16.6 T	K	E94
C/2020 R7	2021 09 12.69605	03 48 30.49	−66 25 20.6	16.6 T	K	E94
C/2020 R7	2021 09 12.70381	03 48 29.89	−66 25 30.0	16.6 T	K	E94

C/2020 S3 (Erasmus)

C/2020 S3	2021 08 05.504835	00 09 56.81	+20 06 15.0	17.62o		T05
C/2020 S3	2021 08 05.508036	00 09 56.73	+20 06 14.2	18.50o		T05
C/2020 S3	2021 08 05.510780	00 09 56.60	+20 06 14.6	17.19o		T05
C/2020 S3	2021 08 05.516269	00 09 56.36	+20 06 14.0	17.05o		T05
C/2020 S3	2021 08 05.684569	00 09 49.93	+20 06 01.6	18.5 T		900
C/2020 S3	2021 08 05.691575	00 09 49.68	+20 06 01.5	18.8 T		900
C/2020 S3	2021 08 07.496352	00 08 38.39	+20 03 39.7	17.57c		T08
C/2020 S3	2021 08 07.525270	00 08 37.22	+20 03 37.4	18.50c		T08
C/2020 S3	2021 08 07.529669	00 08 37.00	+20 03 36.4	17.60c		T08
C/2020 S3	2021 08 07.532434	00 08 36.90	+20 03 36.1	18.06c		T08
C/2020 S3	2021 08 11.548028	00 05 48.06	+19 56 24.5	17.45c		T08
C/2020 S3	2021 08 11.552582	00 05 47.92	+19 56 24.5	18.76c		T08
C/2020 S3	2021 08 11.560540	00 05 47.53	+19 56 23.1	17.63c		T08
C/2020 S3	2021 08 11.571837	00 05 47.07	+19 56 21.4	18.71c		T08
C/2020 S3	2021 08 11.97989	00 05 29.23	+19 55 27.5	17.4 T	K	C23
C/2020 S3	2021 08 11.98350	00 05 29.00	+19 55 26.8	17.7 T	K	C23
C/2020 S3	2021 08 11.98711	00 05 28.84	+19 55 26.2	17.5 T	K	C23
C/2020 S3	2021 08 13.95958	00 04 00.62	+19 50 48.1	18.1 T	K	C23
C/2020 S3	2021 08 13.96247	00 04 00.47	+19 50 47.5	17.7 T	K	C23
C/2020 S3	2021 08 13.96535	00 04 00.35	+19 50 47.3	18.2 T	K	C23
C/2020 S3	2021 08 13.96824	00 04 00.16	+19 50 46.4	17.8 T	K	C23
C/2020 S3	2021 08 14.94215	00 03 15.46	+19 48 15.6	17.3 T	K	204
C/2020 S3	2021 08 15.05826	00 03 09.92	+19 47 56.1		K	204
C/2020 S3	2021 08 15.483456	00 02 50.31	+19 46 48.6	18.17c		T08
C/2020 S3	2021 08 15.485298	00 02 50.18	+19 46 48.0	17.77c		T08
C/2020 S3	2021 08 15.488521	00 02 50.04	+19 46 47.1	17.62c		T08
C/2020 S3	2021 08 15.523759	00 02 48.33	+19 46 42.0	19.23c		T08
C/2020 S3	2021 08 16.92574	00 01 42.44	+19 42 37.4	18.3 T	K	C23
C/2020 S3	2021 08 16.92935	00 01 42.27	+19 42 36.1	17.5 T	K	C23
C/2020 S3	2021 08 16.93296	00 01 42.07	+19 42 36.5	17.9 T	K	C23
C/2020 S3	2021 08 17.493467	00 01 15.18	+19 40 55.6	17.52o		T05
C/2020 S3	2021 08 17.495298	00 01 15.08	+19 40 54.9	17.07o		T05
C/2020 S3	2021 08 17.498432	00 01 14.99	+19 40 53.8	18.50o		T05
C/2020 S3	2021 08 17.524020	00 01 13.69	+19 40 49.7	17.43o		T05
C/2020 S3	2021 08 17.527220	00 01 13.54	+19 40 49.3	17.60o		T05
C/2020 S3	2021 08 17.532535	00 01 13.32	+19 40 48.0	18.51o		T05
C/2020 S3	2021 08 17.555859	00 01 12.10	+19 40 44.1	17.25o		T05
C/2020 S3	2021 08 17.562149	00 01 11.78	+19 40 42.2	17.09o		T05
C/2020 S3	2021 08 18.07774	00 00 47.07	+19 39 04.6	18.3 T	K	Z10
C/2020 S3	2021 08 18.08404	00 00 46.78	+19 39 03.3	18.1 T	K	Z10
C/2020 S3	2021 08 18.09114	00 00 46.34	+19 39 01.8	18.4 T	K	Z10
C/2020 S3	2021 08 19.441961	23 59 40.68	+19 34 36.8	17.34o		T08
C/2020 S3	2021 08 19.473370	23 59 39.04	+19 34 30.8	17.37o		T08
C/2020 S3	2021 08 19.476922	23 59 38.89	+19 34 29.7	17.27o		T08
C/2020 S3	2021 08 19.480793	23 59 38.69	+19 34 28.8	18.45o		T08
C/2020 S3	2021 08 24.306794	23 55 35.43	+19 16 13.0			01 658
C/2020 S3	2021 08 24.311250	23 55 35.19	+19 16 11.9			01 658
C/2020 S3	2021 08 24.315718	23 55 34.92	+19 16 10.6			01 658
C/2020 S3	2021 08 24.320185	23 55 34.70	+19 16 09.4			01 658
C/2020 S3	2021 08 24.324641	23 55 34.40	+19 16 08.2			01 658
C/2020 S3	2021 08 27.437907	23 52 51.97	+19 02 29.6	17.21o		T08
C/2020 S3	2021 08 27.441220	23 52 51.83	+19 02 28.8	18.61o		T08
C/2020 S3	2021 08 27.446492	23 52 51.47	+19 02 27.8	17.47o		T08
C/2020 S3	2021 08 27.482090	23 52 49.57	+19 02 17.4	18.84o		T08
C/2020 S3	2021 08 28.577045	23 51 51.541	+18 57 07.71	18.33i		F51
C/2020 S3	2021 08 28.600340	23 51 50.286	+18 57 00.95	18.47i		F51
C/2020 S3	2021 08 28.611959	23 51 49.654	+18 56 57.56	18.70i		F51
C/2020 S3	2021 08 29.428872	23 51 06.28	+18 53 00.2	17.02o		T05
C/2020 S3	2021 08 29.430747	23 51 06.24	+18 52 58.9	18.50o		T05
C/2020 S3	2021 08 29.436280	23 51 05.86	+18 52 57.8	17.12o		T05
C/2020 S3	2021 08 29.459406	23 51 04.63	+18 52 51.6	17.00o		T05
C/2020 S3	2021 09 03.269005	23 46 45.67	+18 27 36.2			01 658
C/2020 S3	2021 09 03.272349	23 46 45.48	+18 27 35.0			01 658
C/2020 S3	2021 09 03.275694	23 46 45.31	+18 27 33.9			01 658
C/2020 S3	2021 09 03.279039	23 46 45.12	+18 27 32.8			01 658
C/2020 S3	2021 09 03.282396	23 46 44.94	+18 27 31.7			01 658
C/2020 S3	2021 09 03.528179	23 46 31.495	+18 26 10.35	18.70w		F51
C/2020 S3	2021 09 03.540894	23 46 30.803	+18 26 06.18	18.38w		F51
C/2020 S3	2021 09 03.553652	23 46 30.077	+18 26 01.85	18.51w		F51
C/2020 S3	2021 09 05.34336	23 44 53.138	+18 15 47.86	19.2 w		F52
C/2020 S3	2021 09 05.35495	23 44 52.492	+18 15 43.70	19.3 w		F52
C/2020 S3	2021 09 05.36662	23 44 51.862	+18 15 39.75	19.4 w		F52
C/2020 S3	2021 09 05.37825	23 44 51.209	+18 15 35.67	19.5 w		F52
C/2020 S3	2021 09 05.90265	23 44 22.77	+18 12 31.5	17.2 T		B96
C/2020 S3	2021 09 05.90758	23 44 22.26	+18 12 30.7	18.9 T		B96
C/2020 S3	2021 09 05.91251	23 44 22.11	+18 12 24.8	18.6 T		B96
C/2020 S3	2021 09 06.329983	23 43 59.31	+18 09 58.2	17.83G		703
C/2020 S3	2021 09 06.335238	23 43 59.01	+18 09 57.8	17.58G		703
C/2020 S3	2021 09 06.340494	23 43 58.71	+18 09 55.4	17.63G		703
C/2020 S3	2021 09 06.345744	23 43 58.44	+18 09 53.6	17.58G		703
C/2020 S3	2021 09 07.308227	23 43 06.21	+18 04 07.2	17.79G		G96
C/2020 S3	2021 09 07.313860	23 43 05.93	+18 04 04.8	17.79G		G96
C/2020 S3	2021 09 07.319496	23 43 05.59	+18 04 02.5	18.00G		G96
C/2020 S3	2021 09 07.325136	23 43 05.16	+18 03 59.9	17.98G		G96
C/2020 S3	2021 09 07.97794	23 42 29.95	+18 00 00.4	18.0 T	K	C23
C/2020 S3	2021 09 07.98083	23 42 29.68	+17 59 59.6	17.8 T	K	C23
C/2020 S3	2021 09 07.98372	23 42 29.64	+17 59 58.8	18.2 T	K	C23
C/2020 S3	2021 09 07.98660	23 42 29.38	+17 59 56.4	17.7 T	K	C23
C/2020 S3	2021 09 08.389187	23 42 07.61	+17 57 30.0	17.26o		T08
C/2020 S3	2021 09 08.391205	23 42 07.47	+17 57 29.4	17.32o		T08
C/2020 S3	2021 09 08.393970	23 42 07.37	+17 57 28.4	17.53o		T08
C/2020 S3	2021 09 08.399038	23 42 07.08	+17 57 26.2	18.76o		T08
C/2020 S3	2021 09 08.86238	23 41 42.05	+17 54 32.3	18.5 T	K	G02
C/2020 S3	2021 09 08.86662	23 41 41.69	+17 54 30.6	18.4 T	K	G02
C/2020 S3	2021 09 08.87088	23 41 41.45	+17 54 30.1	18.6 T	K	G02
C/2020 S3	2021 09 10.282325	23 40 25.09	+17 45 35.4	17.36G		703
C/2020 S3	2021 09 10.287580	23 40 24.80	+17 45 34.1	17.47G		703
C/2020 S3	2021 09 10.292840	23 40 24.50	+17 45 31.9	17.54G		703
C/2020 S3	2021 09 10.298099	23 40 24.18	+17 45 30.2	17.41G		703
C/2020 S3	2021 09 10.388676	23 40 19.37	+17 44 54.9	17.61c		T05
C/2020 S3	2021 09 10.390663	23 40 19.32	+17 44 54.6	18.70c		T05
C/2020 S3	2021 09 10.393406	23 40 19.10	+17 44 54.1	17.79c		T05
C/2020 S3	2021 09 10.398812	23 40 18.85	+17 44 51.6	17.69c		T05
C/2020 S3	2021 09 11.333826	23 39 28.622	+17 38 49.24	19.77w		F51
C/2020 S3	2021 09 11.345093	23 39 27.998	+17 38 44.87	19.85w		F51

C/2020 S3	2021 09 11.358410	23 39 27.282	+17 38 39.65	19.78w		F51
C/2020 S3	2021 09 11.369634	23 39 26.657	+17 38 35.37	19.88w		F51
C/2020 S3	2021 09 12.382292	23 38 32.22	+17 31 58.4	17.90o		T08
C/2020 S3	2021 09 12.384248	23 38 32.07	+17 31 57.6	17.32o		T08
C/2020 S3	2021 09 12.388091	23 38 31.85	+17 31 55.0	18.17o		T08
C/2020 S3	2021 09 12.393878	23 38 31.53	+17 31 53.7	16.88o		T08
C/2020 S3	2021 09 13.261777	23 37 45.15	+17 26 07.3	17.31G		703
C/2020 S3	2021 09 13.267081	23 37 44.80	+17 26 04.9	17.24G		703
C/2020 S3	2021 09 13.272383	23 37 44.59	+17 26 02.9	17.34G		703
C/2020 S3	2021 09 13.277686	23 37 44.33	+17 26 00.9	17.41G		703
C/2020 S3	2021 09 13.348229	23 37 40.54	+17 25 32.5			01 658
C/2020 S3	2021 09 13.351574	23 37 40.37	+17 25 31.1			01 658
C/2020 S3	2021 09 13.354919	23 37 40.18	+17 25 29.7			01 658
C/2020 S3	2021 09 13.358275	23 37 39.99	+17 25 28.3			01 658
C/2020 S3	2021 09 13.360498	23 37 39.86	+17 25 27.4			01 658
C/2020 S3	2021 09 16.00296	23 35 19.92	+17 07 30.1	17.4	T	K C23
C/2020 S3	2021 09 16.00585	23 35 19.87	+17 07 28.8	18.5	T	K C23
C/2020 S3	2021 09 16.00874	23 35 19.69	+17 07 27.3	18.1	T	K C23
C/2020 S3	2021 09 16.01162	23 35 19.51	+17 07 26.2	18.0	T	K C23
C/2020 S3	2021 09 16.251420	23 35 07.00	+17 05 47.6	17.78G		G96
C/2020 S3	2021 09 16.252574	23 35 06.91	+17 05 47.1	17.51G		703
C/2020 S3	2021 09 16.256665	23 35 06.72	+17 05 45.6	17.81G		G96
C/2020 S3	2021 09 16.257835	23 35 06.57	+17 05 45.2	17.51G		703
C/2020 S3	2021 09 16.261903	23 35 06.43	+17 05 43.5	17.94G		G96
C/2020 S3	2021 09 16.263102	23 35 06.34	+17 05 42.5	17.43G		703
C/2020 S3	2021 09 16.267126	23 35 06.16	+17 05 41.4	17.94G		G96
C/2020 S3	2021 09 16.268364	23 35 06.01	+17 05 39.9	17.47G		703
C/2020 S3	2021 09 17.212861	23 34 16.74	+16 59 07.9			703
C/2020 S3	2021 09 17.218315	23 34 16.53	+16 59 04.7	17.50G		703
C/2020 S3	2021 09 17.223771	23 34 16.24	+16 59 01.1	17.49G		703
C/2020 S3	2021 09 17.229228	23 34 15.91	+16 58 59.2	17.43G		703

C/2020 S4 (PANSTARRS)

C/2020 S4	2021 08 05.619363	04 35 01.429	+04 54 39.47	20.4	T	29 568
C/2020 S4	2021 08 05.620226	04 35 01.458	+04 54 39.47	20.3	T	29 568
C/2020 S4	2021 08 18.39330	04 41 48.25	+04 48 53.1	19.1	T	X03
C/2020 S4	2021 08 18.40890	04 41 48.68	+04 48 52.6	18.5	T	X03
C/2020 S4	2021 08 18.40891	04 41 48.70	+04 48 52.5	18.9	T	K X03
C/2020 S4	2021 08 18.42451	04 41 49.03	+04 48 51.0	18.9	T	X03
C/2020 S4	2021 08 18.582275	04 41 53.79	+04 48 43.8	19.31c		T08
C/2020 S4	2021 08 18.585499	04 41 53.85	+04 48 44.1	19.24c		T08
C/2020 S4	2021 08 18.592529	04 41 54.06	+04 48 43.7	19.05c		T08
C/2020 S4	2021 08 18.608809	04 41 54.52	+04 48 43.1	19.29c		T08
C/2020 S4	2021 08 29.73404	04 46 51.84	+04 38 12.9			K Q11
C/2020 S4	2021 08 29.73970	04 46 52.00	+04 38 12.2			K Q11
C/2020 S4	2021 08 29.74571	04 46 52.12	+04 38 11.8	18.6	T	K Q11
C/2020 S4	2021 08 30.602173	04 47 12.48	+04 37 12.8	18.58o		T08
C/2020 S4	2021 08 30.621628	04 47 12.83	+04 37 11.0	18.22o		T08
C/2020 S4	2021 08 30.630914	04 47 13.19	+04 37 10.8	18.77o		T08
C/2020 S4	2021 08 30.635100	04 47 13.36	+04 37 09.8	18.84o		T08
C/2020 S4	2021 09 03.576816	04 48 42.376	+04 32 13.25	20.8	T	29 568
C/2020 S4	2021 09 03.591046	04 48 42.65	+04 32 11.9	18.98o		T08
C/2020 S4	2021 09 03.598430	04 48 42.72	+04 32 11.1	18.59o		T08
C/2020 S4	2021 09 03.602113	04 48 42.82	+04 32 11.3	18.80o		T08
C/2020 S4	2021 09 03.609911	04 48 43.075	+04 32 10.64	20.4	T	29 568
C/2020 S4	2021 09 03.610775	04 48 43.089	+04 32 10.67	20.4	T	29 568
C/2020 S4	2021 09 03.621139	04 48 43.28	+04 32 09.4	18.35o		T08
C/2020 S4	2021 09 05.592296	04 49 24.60	+04 29 28.5	18.70c		T05
C/2020 S4	2021 09 05.595510	04 49 24.65	+04 29 28.1	18.94c		T05
C/2020 S4	2021 09 05.603352	04 49 24.85	+04 29 28.3	18.89c		T05
C/2020 S4	2021 09 05.620392	04 49 25.16	+04 29 26.2	19.02c		T05
C/2020 S4	2021 09 07.608265	04 50 04.61	+04 26 36.9	18.17o		T08
C/2020 S4	2021 09 07.612448	04 50 04.70	+04 26 36.3	18.82o		T08
C/2020 S4	2021 09 07.619876	04 50 04.81	+04 26 35.7	18.36o		T08
C/2020 S4	2021 09 07.634817	04 50 05.14	+04 26 34.7	18.66o		T08
C/2020 S4	2021 09 09.67120	04 50 43.22	+04 23 32.4			Q11
C/2020 S4	2021 09 09.67970	04 50 43.37	+04 23 31.9			Q11
C/2020 S4	2021 09 09.68817	04 50 43.53	+04 23 30.9	18.3	T	Q11
C/2020 S4	2021 09 17.586489	04 52 47.45	+04 10 39.9	18.66o		T05
C/2020 S4	2021 09 17.590628	04 52 47.53	+04 10 39.8	18.40o		T05
C/2020 S4	2021 09 17.603590	04 52 47.73	+04 10 39.0	18.25o		T05
C/2020 S4	2021 09 17.616277	04 52 47.91	+04 10 37.6	18.70o		T05

C/2020 T2 (Palomar)

C/2020 T2	2021 05 13.075035	13 39 31.47	+29 35 44.8			KW62
C/2020 T2	2021 05 13.078212	13 39 31.39	+29 35 41.5			KW62
C/2020 T2	2021 05 13.081927	13 39 31.28	+29 35 37.6			KW62
C/2020 T2	2021 05 14.96520	13 38 46.73	+29 03 21.0			K 204
C/2020 T2	2021 05 14.97497	13 38 46.49	+29 03 10.5			K 204
C/2020 T2	2021 05 14.99716	13 38 45.96	+29 02 46.9	14.0	T	K 204
C/2020 T2	2021 05 19.069086	13 37 27.98	+27 47 49.8	15.1	T	KW62
C/2020 T2	2021 05 19.073814	13 37 27.89	+27 47 44.3	15.1	T	KW62
C/2020 T2	2021 05 19.079039	13 37 27.79	+27 47 38.3	15.1	T	KW62
C/2020 T2	2021 05 21.096192	13 36 58.24	+27 08 01.4			KW62
C/2020 T2	2021 05 21.100041	13 36 58.17	+27 07 56.7			KW62
C/2020 T2	2021 05 21.104126	13 36 58.10	+27 07 51.5			KW62
C/2020 T2	2021 07 17.50002	14 07 44.41	+02 30 49.4	10.4	T	D95
C/2020 T2	2021 07 17.50439	14 07 44.73	+02 30 42.4			D95
C/2020 T2	2021 07 17.50875	14 07 45.04	+02 30 35.3			D95
C/2020 T2	2021 07 28.86966	14 22 26.09	−02 28 05.7	12.2	T	K K47
C/2020 T2	2021 07 28.87691	14 22 26.72	−02 28 16.7	12.2	T	K K47
C/2020 T2	2021 07 28.88377	14 22 27.20	−02 28 26.9	12.2	T	K K47
C/2020 T2	2021 07 31.47024	14 26 05.56	−03 34 15.8	11.0	T	349
C/2020 T2	2021 07 31.47252	14 26 05.74	−03 34 19.4			349
C/2020 T2	2021 07 31.48222	14 26 06.58	−03 34 34.2			349
C/2020 T2	2021 07 31.48446	14 26 06.75	−03 34 37.6			349
C/2020 T2	2021 08 02.91443	14 29 37.42	−04 35 36.7	12.9	T	02G40
C/2020 T2	2021 08 02.91947	14 29 37.87	−04 35 44.3	12.9	T	02G40
C/2020 T2	2021 08 02.92558	14 29 38.37	−04 35 53.6	12.9	T	02G40
C/2020 T2	2021 08 04.47562	14 31 55.60	−05 14 21.5	14.6	N	K Q02
C/2020 T2	2021 08 04.48779	14 31 56.71	−05 14 39.8	14.7	N	K Q02
C/2020 T2	2021 08 04.49570	14 31 57.40	−05 14 51.0	14.6	N	K Q02
C/2020 T2	2021 08 06.270517	14 34 37.10	−05 58 26.4	13.40c		T08
C/2020 T2	2021 08 06.271436	14 34 37.18	−05 58 27.0	13.51c		T08
C/2020 T2	2021 08 06.273739	14 34 37.38	−05 58 31.1	13.50c		T08
C/2020 T2	2021 08 06.274659	14 34 37.47	−05 58 31.1	13.52c		T08

C/2020 T2	2021 08 06.278835	14 34 37.84	−05 58 38.5	13.42c		T08
C/2020 T2	2021 08 06.280218	14 34 37.97	−05 58 39.9	13.43c		T08
C/2020 T2	2021 08 06.289450	14 34 38.79	−05 58 54.0	13.50c		T08
C/2020 T2	2021 08 07.53087	14 36 32.38	−06 29 05.5	13.2	T	G26
C/2020 T2	2021 08 07.55910	14 36 34.93	−06 29 48.5	12.8	T	G26
C/2020 T2	2021 08 08.258644	14 37 39.27	−06 46 42.0	13.15o		T05
C/2020 T2	2021 08 08.263250	14 37 39.69	−06 46 48.7	13.13o		T05
C/2020 T2	2021 08 08.270575	14 37 40.36	−06 46 59.3	13.22o		T05
C/2020 T2	2021 08 08.280679	14 37 41.28	−06 47 13.9	13.10o		T05
C/2020 T2	2021 08 09.40924	14 39 26.31	−07 14 17.1	12.9	T	Q38
C/2020 T2	2021 08 09.41323	14 39 26.60	−07 14 22.6	12.8	T	Q38
C/2020 T2	2021 08 09.41682	14 39 26.93	−07 14 28.1	12.9	T	Q38
C/2020 T2	2021 08 10.241390	14 40 44.29	−07 34 12.8	14.54c		T08
C/2020 T2	2021 08 10.244618	14 40 44.59	−07 34 17.5	14.58c		T08
C/2020 T2	2021 08 10.263053	14 40 46.28	−07 34 43.9	13.45c		T08
C/2020 T2	2021 08 10.84748	14 41 41.46	−07 48 39.1	14.6	T	215
C/2020 T2	2021 08 10.85017	14 41 41.76	−07 48 41.7	14.7	T	215
C/2020 T2	2021 08 10.85302	14 41 41.96	−07 48 46.2			215
C/2020 T2	2021 08 11.84565	14 43 16.32	−08 12 13.0	14.7	T	C23
C/2020 T2	2021 08 11.84864	14 43 16.62	−08 12 17.4	14.2	T	C23
C/2020 T2	2021 08 11.85164	14 43 16.90	−08 12 21.5	14.1	T	C23
C/2020 T2	2021 08 12.243731	14 43 54.42	−08 21 32.9	14.15o		T05
C/2020 T2	2021 08 12.246936	14 43 54.72	−08 21 37.6	14.18o		T05
C/2020 T2	2021 08 12.252438	14 43 55.22	−08 21 45.3	13.07o		T05
C/2020 T2	2021 08 12.263914	14 43 56.30	−08 22 01.5	13.05o		T05
C/2020 T2	2021 08 13.82861	14 46 27.23	−08 58 34.7	13.5	T	A77
C/2020 T2	2021 08 13.83267	14 46 27.62	−08 58 40.2	13.4	T	A77
C/2020 T2	2021 08 13.83673	14 46 27.99	−08 58 46.0	13.4	T	A77
C/2020 T2	2021 08 13.85018	14 46 29.26	−08 59 04.6	14.5	T	C23
C/2020 T2	2021 08 13.85317	14 46 29.58	−08 59 08.6	14.5	T	C23
C/2020 T2	2021 08 13.85691	14 46 29.93	−08 59 13.8	14.7	T	C23
C/2020 T2	2021 08 14.238476	14 47 07.04	−09 08 02.4	12.82o		T08
C/2020 T2	2021 08 14.238935	14 47 07.08	−09 08 03.3	12.94o		T08
C/2020 T2	2021 08 14.241700	14 47 07.37	−09 08 06.8	12.87o		T08
C/2020 T2	2021 08 14.242161	14 47 07.39	−09 08 07.8	13.03o		T08
C/2020 T2	2021 08 14.249526	14 47 08.09	−09 08 18.0	12.87o		T08
C/2020 T2	2021 08 14.252294	14 47 08.35	−09 08 21.7	12.70o		T08
C/2020 T2	2021 08 14.257826	14 47 08.88	−09 08 29.5	12.94o		T08
C/2020 T2	2021 08 14.261053	14 47 09.28	−09 08 33.3	12.86o		T08
C/2020 T2	2021 08 16.261624	14 50 25.56	−09 54 30.8	13.17o		T05
C/2020 T2	2021 08 16.267133	14 50 26.08	−09 54 38.3	13.15o		T05
C/2020 T2	2021 08 16.270337	14 50 26.40	−09 54 42.7	13.13o		T05
C/2020 T2	2021 08 16.273553	14 50 26.73	−09 54 47.1	13.13o		T05
C/2020 T2	2021 08 16.276801	14 50 27.05	−09 54 51.5	13.11o		T05
C/2020 T2	2021 08 16.282755	14 50 27.62	−09 54 59.5	13.21o		T05
C/2020 T2	2021 08 16.283213	14 50 27.67	−09 55 00.2	13.07o		T05
C/2020 T2	2021 08 16.293311	14 50 28.66	−09 55 14.0	13.14o		T05
C/2020 T2	2021 08 16.83626	14 51 22.58	−10 07 36.4	14.4	T	C23
C/2020 T2	2021 08 16.83850	14 51 22.73	−10 07 39.4	14.1	T	C23
C/2020 T2	2021 08 16.84075	14 51 23.04	−10 07 41.9	14.0	T	C23
C/2020 T2	2021 08 18.46462	14 54 05.32	−10 44 18.4	11.1	T	349
C/2020 T2	2021 08 18.46758	14 54 05.63	−10 44 22.4			349
C/2020 T2	2021 08 18.47057	14 54 05.94	−10 44 26.6			349
C/2020 T2	2021 08 20.238670	14 57 04.92	−11 23 45.7	13.30o		T05
C/2020 T2	2021 08 20.241878	14 57 05.24	−11 23 49.9	13.24o		T05
C/2020 T2	2021 08 20.249668	14 57 06.02	−11 24 00.2	13.18o		T05
C/2020 T2	2021 08 20.259770	14 57 07.04	−11 24 13.7	13.23o		T05
C/2020 T2	2021 08 20.82168	14 58 04.49	−11 36 38.0	13.7	T	A77
C/2020 T2	2021 08 20.82748	14 58 05.06	−11 36 45.9	13.6	T	A77
C/2020 T2	2021 08 20.83327	14 58 05.62	−11 36 53.0	13.5	T	A77
C/2020 T2	2021 08 22.266368	15 00 32.91	−12 08 10.2	13.38o		T08
C/2020 T2	2021 08 22.269608	15 00 33.24	−12 08 14.4	13.36o		T08
C/2020 T2	2021 08 22.276534	15 00 33.95	−12 08 23.5	13.44o		T08
C/2020 T2	2021 08 22.289440	15 00 35.26	−12 08 40.3	13.35o		T08
C/2020 T2	2021 08 22.97818	15 01 46.73	−12 23 31.8	14.3	T	X03
C/2020 T2	2021 08 22.99184	15 01 48.11	−12 23 49.7	15.1	T	X03
C/2020 T2	2021 08 23.00443	15 01 49.41	−12 24 05.7	14.6	T	X03
C/2020 T2	2021 08 23.01700	15 01 50.72	−12 24 22.2	14.6	T	X03
C/2020 T2	2021 08 23.03154	15 01 52.20	−12 24 40.6	15.1	T	X03
C/2020 T2	2021 08 23.04074	15 01 53.15	−12 24 52.7	14.8	T	X03
C/2020 T2	2021 08 23.82338	15 03 14.64	−12 41 47.6	14.3	T	K C23
C/2020 T2	2021 08 23.82458	15 03 14.82	−12 41 48.3	14.5	T	K C23
C/2020 T2	2021 08 23.82587	15 03 14.89	−12 41 49.6	13.9	T	K C23
C/2020 T2	2021 08 23.82760	15 03 15.08	−12 41 52.6	14.1	T	K C23
C/2020 T2	2021 08 23.82932	15 03 15.27	−12 41 55.0	14.2	T	K C23
C/2020 T2	2021 08 25.36228	15 05 56.11	−13 14 27.0	14.6	T	E89
C/2020 T2	2021 08 25.36731	15 05 56.62	−13 14 33.3	14.6	T	E89
C/2020 T2	2021 08 25.37215	15 05 57.16	−13 14 39.4	14.7	T	E89
C/2020 T2	2021 08 25.37637	15 05 57.61	−13 14 44.8	14.5	T	E89
C/2020 T2	2021 08 25.82399	15 06 44.90	−13 24 18.1	13.8	T	C23
C/2020 T2	2021 08 25.82640	15 06 45.19	−13 24 21.0	14.2	T	C23
C/2020 T2	2021 08 25.83049	15 06 45.65	−13 24 26.1	14.0	T	C23
C/2020 T2	2021 08 26.230301	15 07 27.96	−13 32 48.9	13.48o		T08
C/2020 T2	2021 08 26.233528	15 07 28.30	−13 32 53.0	14.42o		T08
C/2020 T2	2021 08 26.239056	15 07 28.88	−13 32 59.9	14.39o		T08
C/2020 T2	2021 08 26.249205	15 07 29.94	−13 33 12.7	13.37o		T08
C/2020 T2	2021 08 27.86359	15 10 22.11	−14 06 51.3	14.4	T	Z10
C/2020 T2	2021 08 27.86817	15 10 22.49	−14 06 56.5	14.4	T	Z10
C/2020 T2	2021 08 27.87275	15 10 23.04	−14 07 03.2	14.4	T	Z10
C/2020 T2	2021 08 28.46226	15 11 26.31	−14 19 12.1	11.4	T	349
C/2020 T2	2021 08 28.46483	15 11 26.59	−14 19 15.1			349
C/2020 T2	2021 08 29.228400	15 12 48.96	−14 34 53.7	14.73o		T08
C/2020 T2	2021 08 29.231625	15 12 49.30	−14 34 57.5	13.50o		T08
C/2020 T2	2021 08 29.237156	15 12 49.89	−14 35 04.4	13.49o		T08
C/2020 T2	2021 08 29.247289	15 12 50.97	−14 35 16.7	13.39o		T08
C/2020 T2	2021 08 29.47025	15 13 15.09	−14 39 50.3			K 367
C/2020 T2	2021 08 29.47147	15 13 15.21	−14 39 51.8			K 367
C/2020 T2	2021 08 29.47309	15 13 15.39	−14 39 53.8	11.2	T	K 367
C/2020 T2	2021 08 30.235209	15 14 38.08	−14 55 21.6	13.54o		T08
C/2020 T2	2021 08 30.238895	15 14 38.47	−14 55 26.1	13.53o		T08
C/2020 T2	2021 08 30.244421	15 14 39.07	−14 55 32.6	13.54o		T08
C/2020 T2	2021 08 30.256401	15 14 40.37	−14 55 47.2	14.57o		T08
C/2020 T2	2021 09 03.227171	15 21 57.30	−16 14 37.5	14.56o		T08
C/2020 T2	2021 09 03.238222	15 21 58.52	−16 14 50.2	13.39o		T08
C/2020 T2	2021 09 03.240525	15 21 58.76	−16 14 52.5	13.41o		T08
C/2020 T2	2021 09 03.244678	15 21 59.22	−16 14 57.2	13.41o		T08

C/2020 T2	2021 09 03.248365	15 21 59.64	−16 15 01.7	14.49o		T08
C/2020 T2	2021 09 03.252517	15 22 00.08	−16 15 06.5	13.35o		T08
C/2020 T2	2021 09 03.263144	15 22 01.25	−16 15 18.7	13.32o		T08
C/2020 T2	2021 09 04.235095	15 23 49.77	−16 34 08.6	13.45c		T05
C/2020 T2	2021 09 04.239231	15 23 50.26	−16 34 13.5	13.36c		T05
C/2020 T2	2021 09 04.247025	15 23 51.12	−16 34 22.4	13.44c		T05
C/2020 T2	2021 09 04.259010	15 23 52.43	−16 34 36.0	13.33c		T05
C/2020 T2	2021 09 08.85318	15 32 33.28	−18 01 06.8	13.1	T	02G40
C/2020 T2	2021 09 08.85863	15 32 33.92	−18 01 12.7	13.2	T	02G40
C/2020 T2	2021 09 08.86334	15 32 34.43	−18 01 17.8	13.3	T	02G40
C/2020 T2	2021 09 10.41910	15 35 33.64	−18 29 35.8	13.7	T	Q38
C/2020 T2	2021 09 10.42109	15 35 33.88	−18 29 38.2	13.7	T	Q38
C/2020 T2	2021 09 10.42306	15 35 34.14	−18 29 41.0	13.7	T	Q38
C/2020 T2	2021 09 10.42502	15 35 34.33	−18 29 42.8	13.7	T	Q38

C/2020 U3 (Rankin)

C/2020 U3	2021 03 19.133300	02 39 39.92	+31 33 00.4	19.16T		I41
C/2020 U3	2021 03 19.135819	02 39 40.28	+31 33 00.4	18.99T		I41
C/2020 U3	2021 03 19.138360	02 39 40.68	+31 33 00.2	19.05T		I41
C/2020 U3	2021 03 19.140880	02 39 41.08	+31 33 00.4	19.12T		I41
C/2020 U3	2021 03 20.133870	02 42 16.12	+31 33 16.6	19.10T		I41
C/2020 U3	2021 03 21.134400	02 44 52.28	+31 33 29.1	19.00T		I41
C/2020 U3	2021 03 21.136931	02 44 52.65	+31 33 29.3	18.95T		I41
C/2020 U3	2021 03 21.139459	02 44 52.99	+31 33 29.3	18.92T		I41
C/2020 U3	2021 03 21.141990	02 44 53.39	+31 33 29.3	18.92T		I41

C/2020 U4 (PANSTARRS)

C/2020 U4	2021 09 08.10567	05 35 43.93	+32 32 47.3	19.1	T	K77
C/2020 U4	2021 09 08.11422	05 35 43.79	+32 32 48.5	19.1	T	K77
C/2020 U4	2021 09 10.565898	05 34 50.95	+32 39 13.8	19.24c		T05
C/2020 U4	2021 09 10.569595	05 34 50.94	+32 39 13.8	19.30c		T05
C/2020 U4	2021 09 10.575099	05 34 50.74	+32 39 15.8	19.23c		T05
C/2020 U4	2021 09 10.591744	05 34 50.32	+32 39 18.2	19.23c		T05
C/2020 U4	2021 09 11.610500	05 34 26.66	+32 41 58.6	19.25c		T05
C/2020 U4	2021 09 11.614647	05 34 26.57	+32 41 58.8	19.20c		T05
C/2020 U4	2021 09 11.622112	05 34 26.33	+32 42 00.2	18.13c		T05
C/2020 U4	2021 09 11.631484	05 34 26.02	+32 42 02.2	19.27c		T05
C/2020 U4	2021 09 12.581622	05 34 03.03	+32 44 32.1	18.40o		T08
C/2020 U4	2021 09 12.589932	05 34 02.67	+32 44 33.8	18.65o		T08
C/2020 U4	2021 09 12.593160	05 34 02.66	+32 44 35.7	19.14o		T08
C/2020 U4	2021 09 12.614388	05 34 02.04	+32 44 36.9	18.82o		T08

C/2020 U5 (PANSTARRS)

C/2020 U5	2021 08 25.489730	08 05 40.30	+48 57 44.9	18.36T		I41
C/2020 U5	2021 08 25.492181	08 05 40.48	+48 57 46.3	18.35T		I41
C/2020 U5	2021 08 25.494620	08 05 40.65	+48 57 47.4	18.34T		I41
C/2020 U5	2021 08 25.497069	08 05 40.83	+48 57 48.7	18.35T		I41
C/2020 U5	2021 08 25.499510	08 05 40.98	+48 57 50.1	18.37T		I41
C/2020 U5	2021 09 01.12652	08 13 22.54	+49 55 59.1	17.9	T K	I81
C/2020 U5	2021 09 01.12863	08 13 22.69	+49 56 00.2	17.8	T K	I81
C/2020 U5	2021 09 01.13076	08 13 22.83	+49 56 01.3	17.7	T K	I81
C/2020 U5	2021 09 02.494550	08 14 58.76	+50 08 38.0	18.36T		I41
C/2020 U5	2021 09 02.497060	08 14 58.92	+50 08 39.4	18.45T		I41
C/2020 U5	2021 09 02.502090	08 14 59.26	+50 08 42.3	18.44T		I41
C/2020 U5	2021 09 02.504610	08 14 59.42	+50 08 43.4	18.44T		I41
C/2020 U5	2021 09 03.475616	08 16 07.75	+50 17 50.4	17.82G		703
C/2020 U5	2021 09 03.480234	08 16 08.09	+50 17 53.1	17.92G		703
C/2020 U5	2021 09 03.484851	08 16 08.48	+50 17 55.2	17.71G		703
C/2020 U5	2021 09 03.490419	08 16 08.86	+50 17 58.7	17.70G		703
C/2020 U5	2021 09 06.503730	08 19 42.04	+50 47 00.9	18.32T		I41
C/2020 U5	2021 09 06.506200	08 19 42.22	+50 47 02.3	18.32T		I41
C/2020 U5	2021 09 06.508681	08 19 42.40	+50 47 03.8	18.45T		I41
C/2020 U5	2021 09 06.511160	08 19 42.57	+50 47 05.4	18.39T		I41
C/2020 U5	2021 09 06.513630	08 19 42.75	+50 47 06.9	18.34T		I41
C/2020 U5	2021 09 07.46219	08 20 49.99	+50 56 28.5	18.0	R	U55
C/2020 U5	2021 09 07.46796	08 20 50.49	+50 56 33.0	18.0	R	U55
C/2020 U5	2021 09 07.47383	08 20 50.96	+50 56 34.9	17.9	R	U55
C/2020 U5	2021 09 11.485963	08 25 37.12	+51 37 38.4	17.87G		703
C/2020 U5	2021 09 11.490509	08 25 37.45	+51 37 41.2	17.74G		703
C/2020 U5	2021 09 11.495060	08 25 37.78	+51 37 44.0	17.62G		703
C/2020 U5	2021 09 11.499609	08 25 38.14	+51 37 46.8	17.67G		703
C/2020 U5	2021 09 16.06436	08 31 06.18	+52 27 11.7	17.8	T K	970
C/2020 U5	2021 09 16.06854	08 31 06.48	+52 27 14.3	17.8	T K	970

C/2020 V2 (ZTF)

C/2020 V2	2021 08 08.86949	12 05 44.72	+35 32 29.3	16.7	N	I72
C/2020 V2	2021 08 08.88380	12 05 45.02	+35 32 27.1	16.8	N	I72
C/2020 V2	2021 08 08.89823	12 05 45.14	+35 32 23.6	16.8	N	I72
C/2020 V2	2021 08 14.84337	12 07 34.75	+35 14 54.5	16.7	T K	C23
C/2020 V2	2021 08 14.84562	12 07 34.75	+35 14 54.0	16.3	T K	C23
C/2020 V2	2021 08 14.84786	12 07 34.83	+35 14 53.1	16.2	T K	C23
C/2020 V2	2021 08 14.85011	12 07 34.80	+35 14 53.2	16.0	T K	C23
C/2020 V2	2021 08 14.85198	12 07 34.96	+35 14 52.0	16.4	T K	C23
C/2020 V2	2021 08 31.89571	12 13 58.14	+34 30 59.0	16.3	T K	I81
C/2020 V2	2021 08 31.89750	12 13 58.20	+34 30 58.2	16.3	T K	I81
C/2020 V2	2021 08 31.89929	12 13 58.25	+34 30 57.7	16.3	T K	I81

P/2020 V4 (Rankin)

P/2020 V4	2021 04 19.150860	05 26 41.15	+11 16 17.3	18.80T		I41
P/2020 V4	2021 04 19.154880	05 26 41.32	+11 16 18.6	19.18T		I41
P/2020 V4	2021 04 19.156900	05 26 41.43	+11 16 18.5	18.88T		I41
P/2020 V4	2021 04 20.151420	05 27 27.77	+11 17 58.5	19.11T		I41
P/2020 V4	2021 04 20.153440	05 27 27.90	+11 17 58.9	19.11T		I41
P/2020 V4	2021 04 20.155450	05 27 27.94	+11 17 58.8	19.14T		I41
P/2020 V4	2021 04 20.157470	05 27 28.05	+11 17 59.8	18.98T		I41
P/2020 V4	2021 04 21.152000	05 28 14.82	+11 19 37.9	18.96T		I41
P/2020 V4	2021 04 21.154000	05 28 14.91	+11 19 38.2	19.00T		I41
P/2020 V4	2021 04 21.156020	05 28 15.04	+11 19 38.4	19.03T		I41
P/2020 V4	2021 04 21.158030	05 28 15.13	+11 19 38.1	19.01T		I41
P/2020 V4	2021 08 30.506459	07 30 01.04	+09 12 46.2	19.11T		I41
P/2020 V4	2021 08 30.508900	07 30 01.16	+09 12 45.6	19.10T		I41
P/2020 V4	2021 08 30.511330	07 30 01.27	+09 12 45.1	18.87T		I41
P/2020 V4	2021 08 30.513760	07 30 01.36	+09 12 44.5	19.00T		I41
P/2020 V4	2021 08 30.516200	07 30 01.49	+09 12 44.2	19.03T		I41
P/2020 V4	2021 09 05.498110	07 34 47.48	+08 51 18.1	18.99T		I41
P/2020 V4	2021 09 05.500630	07 34 47.59	+08 51 17.5	18.95T		I41
P/2020 V4	2021 09 05.503140	07 34 47.70	+08 51 17.1	19.11T		I41
P/2020 V4	2021 09 05.505660	07 34 47.82	+08 51 16.5	19.19T		I41

P/2020 V4	2021 09 05.508170	07 34 47.95	+08 51 15.6	19.00T		I41
P/2020 V4	2021 09 06.497530	07 35 33.98	+08 47 38.2	19.10T		I41
P/2020 V4	2021 09 06.504310	07 35 34.28	+08 47 36.4	19.02T		I41
P/2020 V4	2021 09 06.506780	07 35 34.41	+08 47 36.1	19.02T		I41
P/2020 V4	2021 09 06.509270	07 35 34.54	+08 47 35.4	19.08T		I41
P/2020 V4	2021 09 06.511750	07 35 34.64	+08 47 35.0	19.10T		I41
P/2020 V4	2021 09 09.76544	07 38 03.40	+08 35 29.1	17.6	T	K Q11
P/2020 V4	2021 09 09.77110	07 38 03.64	+08 35 27.6			K Q11
P/2020 V4	2021 09 09.77711	07 38 03.93	+08 35 26.4			K Q11
P/2020 V4	2021 09 10.611015	07 38 41.32	+08 32 19.5	19.07c		T05
P/2020 V4	2021 09 10.615211	07 38 41.56	+08 32 17.7	18.89c		T05
P/2020 V4	2021 09 10.625045	07 38 41.98	+08 32 15.4	19.06c		T05
P/2020 V4	2021 09 10.634254	07 38 42.24	+08 32 15.0	18.98c		T05
P/2020 V4	2021 09 16.483277	07 42 56.71	+08 09 51.2	18.12G		703
P/2020 V4	2021 09 16.496353	07 42 57.37	+08 09 49.4	18.43G		703
P/2020 V4	2021 09 16.502097	07 42 57.64	+08 09 46.8	18.38G		703

C/2020 X4 (Leonard)

C/2020 X4	2021 08 05.484142	22 47 30.316	+06 33 39.13	22.4	T	29 568
C/2020 X4	2021 08 05.486045	22 47 30.261	+06 33 38.10	21.7	T	29 568
C/2020 X4	2021 08 08.33726	22 46 11.43	+06 07 42.9	19.5	G	KW16
C/2020 X4	2021 08 08.34364	22 46 11.31	+06 07 38.1	19.5	G	KW16
C/2020 X4	2021 08 08.35002	22 46 11.04	+06 07 34.7	19.1	G	KW16
C/2020 X4	2021 08 08.35825	22 46 10.75	+06 07 29.3	19.3	G	KW16
C/2020 X4	2021 09 08.11459	22 30 09.38	+00 47 22.5	19.2	T	K X03
C/2020 X4	2021 09 08.11794	22 30 09.25	+00 47 20.2	19.1	T	K X03
C/2020 X4	2021 09 08.11906	22 30 09.23	+00 47 19.3	19.2	T	K X03
C/2020 X4	2021 09 09.351567	22 29 30.783	+00 33 39.26	21.64w		F51
C/2020 X4	2021 09 09.363103	22 29 30.439	+00 33 31.68	21.52w		F51
C/2020 X4	2021 09 09.374671	22 29 30.072	+00 33 23.92	21.59w		F51
C/2020 X4	2021 09 10.233542	22 29 03.47	+00 23 53.8	19.96G		G96
C/2020 X4	2021 09 10.239211	22 29 03.27	+00 23 49.9	19.68G		G96
C/2020 X4	2021 09 10.250534	22 29 02.95	+00 23 42.0	20.36G		G96
C/2020 X4	2021 09 13.333539	22 27 28.965	−00 10 20.99	21.48w		F52
C/2020 X4	2021 09 13.345059	22 27 28.624	−00 10 28.60	21.49w		F52
C/2020 X4	2021 09 13.356574	22 27 28.282	−00 10 36.33	21.38w		F52
C/2020 X4	2021 09 13.368108	22 27 27.900	−00 10 44.13	21.51w		F52

C/2020 Y2 (ATLAS)

C/2020 Y2	2021 08 09.99190	12 02 05.70	−22 38 49.3	16.9	T	03W88
C/2020 Y2	2021 08 09.99802	12 02 05.73	−22 38 51.6	16.7	T	03W88
C/2020 Y2	2021 08 16.37320	12 03 32.91	−23 12 25.3			01Q62
C/2020 Y2	2021 08 16.37677	12 03 32.97	−23 12 26.6	16.0	T	01Q62

C/2020 Y3 (ATLAS)

C/2020 Y3	2021 08 05.264232	13 50 57.505	+49 01 21.93	22.6	T	29 568
C/2020 Y3	2021 08 05.266137	13 50 57.631	+49 01 21.05	22.4	T	29 568

C/2021 A1 (Leonard)

C/2021 A1	2021 08 08.87791	10 39 32.30	+44 50 53.9	16.7	N	I72
C/2021 A1	2021 08 08.89236	10 39 32.79	+44 50 45.5	16.7	N	I72
C/2021 A1	2021 08 08.90662	10 39 33.21	+44 50 37.9	16.8	N	I72
C/2021 A1	2021 08 13.86046	10 42 21.56	+44 04 08.5	16.9	T	K C23
C/2021 A1	2021 08 13.86624	10 42 22.05	+44 04 07.3	17.1	T	K C23
C/2021 A1	2021 09 03.10847	10 55 48.99	+41 07 54.1	16.0	T	K A71
C/2021 A1	2021 09 03.11223	10 55 49.15	+41 07 52.5	15.9	T	K A71
C/2021 A1	2021 09 03.11600	10 55 49.31	+41 07 50.7	16.0	T	K A71
C/2021 A1	2021 09 03.11976	10 55 49.49	+41 07 48.9	16.3	T	K A71
C/2021 A1	2021 09 03.12352	10 55 49.65	+41 07 46.9	16.8	T	K A71
C/2021 A1	2021 09 04.82017	10 57 04.51	+40 54 01.5	14.5	T	K77
C/2021 A1	2021 09 04.82596	10 57 05.00	+40 53 59.3	14.7	T	K77
C/2021 A1	2021 09 05.09803	10 57 17.35	+40 51 46.9	16.3	T	K A71
C/2021 A1	2021 09 05.10245	10 57 17.57	+40 51 45.9	16.2	T	K A71
C/2021 A1	2021 09 05.10686	10 57 17.75	+40 51 43.0	16.3	T	K A71
C/2021 A1	2021 09 05.11202	10 57 17.94	+40 51 40.2	16.2	T	K A71
C/2021 A1	2021 09 08.15100	10 59 35.61	+40 27 29.9	15.6	T	K I81
C/2021 A1	2021 09 08.15310	10 59 35.69	+40 27 28.9	15.6	T	K I81
C/2021 A1	2021 09 08.15521	10 59 35.77	+40 27 27.8	15.5	T	K I81
C/2021 A1	2021 09 09.09652	11 00 19.24	+40 20 06.3	16.3	T	K A71
C/2021 A1	2021 09 09.10406	11 00 19.58	+40 20 01.6	16.1	T	K A71
C/2021 A1	2021 09 09.11160	11 00 19.90	+40 19 58.6	16.2	T	K A71
C/2021 A1	2021 09 10.07159	11 01 04.36	+40 12 32.0	15.0	T	L60
C/2021 A1	2021 09 10.07995	11 01 04.76	+40 12 28.0			L60
C/2021 A1	2021 09 10.08152	11 01 04.83	+40 12 27.2			L60
C/2021 A1	2021 09 19.17854	11 08 21.59	+39 04 26.6	16.1	T	A77
C/2021 A1	2021 09 19.18017	11 08 21.63	+39 04 24.9	15.7	T	A77
C/2021 A1	2021 09 19.18179	11 08 21.78	+39 04 26.1	12.8	T	A77

C/2021 A2 (NEOWISE)

C/2021 A2	2021 05 08.161740	05 24 48.92	+56 20 58.5	18.41T		I41
C/2021 A2	2021 05 08.164910	05 24 49.08	+56 21 00.4	18.38T		I41
C/2021 A2	2021 05 08.168069	05 24 49.31	+56 21 02.6	18.37T		I41
C/2021 A2	2021 05 09.163950	05 25 55.87	+56 31 36.2	18.54T		I41
C/2021 A2	2021 05 09.165520	05 25 55.92	+56 31 37.1	18.35T		I41

C/2021 A4 (NEOWISE)

C/2021 A4	2021 07 07.79839	04 32 21.69	−36 27 46.3			01Q62
C/2021 A4	2021 07 07.80107	04 32 21.72	−36 27 51.2			01Q62
C/2021 A4	2021 07 07.80375	04 32 21.74	−36 27 56.2	18.6	T	01Q62

C/2021 D2 (ZTF)

C/2021 D2	2021 02 19.554569	20 27 23.29	+27 10 17.7	19.55T		I41
C/2021 D2	2021 02 19.557000	20 27 23.41	+27 10 19.6	19.41T		I41
C/2021 D2	2021 02 19.559431	20 27 23.52	+27 10 21.3	19.22T		I41
C/2021 D2	2021 02 19.564291	20 27 23.76	+27 10 24.6	19.21T		I41
C/2021 D2	2021 08 02.93331	18 02 18.83	+74 25 03.5	17.9	T	K77
C/2021 D2	2021 08 02.93758	18 02 17.28	+74 25 03.6	18.4	T	K77
C/2021 D2	2021 08 02.94399	18 02 15.37	+74 25 03.0	18.4	T	K77
C/2021 D2	2021 08 06.02678	17 46 44.33	+74 20 56.8	18.3	T	K Z10
C/2021 D2	2021 08 06.03321	17 46 42.36	+74 20 56.7	18.5	T	K Z10
C/2021 D2	2021 08 06.04046	17 46 40.06	+74 20 55.8	18.4	T	K Z10
C/2021 D2	2021 08 06.357630	17 45 06.74	+74 20 09.7	17.76o		T05
C/2021 D2	2021 08 06.360833	17 45 05.76	+74 20 08.8	17.65o		T05
C/2021 D2	2021 08 06.366333	17 45 03.76	+74 20 08.2	18.48o		T05
C/2021 D2	2021 08 06.377783	17 45 00.69	+74 20 06.4	17.85o		T05
C/2021 D2	2021 08 06.90199	17 42 26.67	+74 18 41.5	17.8	T	K K19
C/2021 D2	2021 08 06.90993	17 42 24.15	+74 18 40.4	17.2	T	K K19
C/2021 D2	2021 08 06.93319	17 42 17.22	+74 18 37.0	18.0	T	L85
C/2021 D2	2021 08 06.98146	17 42 02.94	+74 18 28.4	17.8	T	L85

C/2021 D2	2021 08 08.344775	17 35 28.64	+74 14 00.8	18.57c			T08
C/2021 D2	2021 08 08.348925	17 35 27.35	+74 14 00.2	17.88c			T08
C/2021 D2	2021 08 08.365064	17 35 22.62	+74 13 56.0	18.87c			T08
C/2021 D2	2021 08 08.374290	17 35 19.78	+74 13 55.1	18.44c			T08
C/2021 D2	2021 08 08.379833	17 35 18.53	+74 13 52.6	17.73c			T08
C/2021 D2	2021 08 08.412201	17 35 08.91	+74 13 45.8	17.82c			T08
C/2021 D2	2021 08 10.335658	17 26 09.22	+74 05 36.6	17.66o			T05
C/2021 D2	2021 08 10.339333	17 26 07.96	+74 05 35.5	18.43o			T05
C/2021 D2	2021 08 10.346260	17 26 06.36	+74 05 32.4	17.20o			T05
C/2021 D2	2021 08 10.357780	17 26 02.94	+74 05 30.4	18.51o			T05
C/2021 D2	2021 08 10.97140	17 23 14.88	+74 02 27.4	18.9	T	K	970
C/2021 D2	2021 08 10.97557	17 23 13.88	+74 02 25.7	18.4	T	K	970
C/2021 D2	2021 08 11.89484	17 19 06.63	+73 57 32.2	18.5	T	K	L47
C/2021 D2	2021 08 11.91943	17 19 00.11	+73 57 24.2	17.8	T	K	L47
C/2021 D2	2021 08 11.92170	17 18 59.48	+73 57 22.5	17.8	T	K	C23
C/2021 D2	2021 08 11.92459	17 18 58.45	+73 57 21.7	17.8	T	K	C23
C/2021 D2	2021 08 11.92747	17 18 57.84	+73 57 20.5	17.8	T	K	C23
C/2021 D2	2021 08 12.327146	17 17 12.08	+73 55 06.5	18.87c			T08
C/2021 D2	2021 08 12.330483	17 17 11.16	+73 55 05.1	18.82c			T08
C/2021 D2	2021 08 12.337404	17 17 09.58	+73 55 02.3	18.76c			T08
C/2021 D2	2021 08 12.349430	17 17 06.24	+73 54 58.0	18.72c			T08
C/2021 D2	2021 08 12.86582	17 14 50.47	+73 51 55.5	17.8	T	K	L47
C/2021 D2	2021 08 12.90231	17 14 41.00	+73 51 41.5	17.9	T	K	L47
C/2021 D2	2021 08 12.99368	17 14 17.58	+73 51 06.8	17.8	T	K	970
C/2021 D2	2021 08 12.99785	17 14 16.41	+73 51 05.8	17.9	T	K	970
C/2021 D2	2021 08 13.91130	17 10 22.21	+73 45 20.8	18.7	T	K	L47
C/2021 D2	2021 08 13.92824	17 10 18.01	+73 45 14.0	18.0	T	K	L47
C/2021 D2	2021 08 13.95684	17 10 10.61	+73 45 01.2	18.2	T		A98
C/2021 D2	2021 08 13.96109	17 10 09.62	+73 44 59.1	18.4	T		A98
C/2021 D2	2021 08 13.96534	17 10 08.67	+73 44 58.3	18.6	T		A98
C/2021 D2	2021 08 13.97383	17 10 06.32	+73 44 53.9	18.2	T		A98
C/2021 D2	2021 08 13.97808	17 10 05.51	+73 44 51.6	18.3	T		A98
C/2021 D2	2021 08 13.98870	17 10 02.94	+73 44 46.6	18.2	T		A98
C/2021 D2	2021 08 13.99294	17 10 01.77	+73 44 45.2	17.9	T		A98
C/2021 D2	2021 08 14.02202	17 09 54.02	+73 44 36.0	18.4	T	K	C23
C/2021 D2	2021 08 14.02491	17 09 53.60	+73 44 35.0	18.0	T	K	C23
C/2021 D2	2021 08 14.02924	17 09 52.50	+73 44 32.7	18.0	T	K	C23
C/2021 D2	2021 08 14.280423	17 08 49.31	+73 42 55.2	18.36o			T05
C/2021 D2	2021 08 14.286380	17 08 48.23	+73 42 52.3	18.00o			T05
C/2021 D2	2021 08 14.289581	17 08 46.95	+73 42 51.6	18.49o			T05
C/2021 D2	2021 08 14.300167	17 08 44.26	+73 42 47.0	18.45o			T05
C/2021 D2	2021 08 14.309799	17 08 42.53	+73 42 42.7	18.51o			T05
C/2021 D2	2021 08 14.315323	17 08 40.77	+73 42 40.5	18.33o			T05
C/2021 D2	2021 08 14.326777	17 08 37.95	+73 42 35.6	18.28o			T05
C/2021 D2	2021 08 16.276662	17 00 41.591	+73 28 44.72	19.50i			F51
C/2021 D2	2021 08 16.289670	17 00 38.455	+73 28 38.75	19.49i			F51
C/2021 D2	2021 08 16.302700	17 00 35.329	+73 28 32.72	19.38i			F51
C/2021 D2	2021 08 16.315744	17 00 32.201	+73 28 26.80	19.36i			F51
C/2021 D2	2021 08 16.365888	17 00 20.34	+73 28 02.6	18.65o			T08
C/2021 D2	2021 08 16.366347	17 00 20.40	+73 28 03.0	18.76o			T08
C/2021 D2	2021 08 16.370045	17 00 19.31	+73 28 00.5	18.48o			T08
C/2021 D2	2021 08 16.370506	17 00 19.26	+73 28 00.4	18.68o			T08
C/2021 D2	2021 08 16.376542	17 00 17.83	+73 27 59.0	18.54o			T08
C/2021 D2	2021 08 16.397261	17 00 12.79	+73 27 48.7	18.57o			T08
C/2021 D2	2021 08 16.397722	17 00 12.40	+73 27 48.5	18.77o			T08
C/2021 D2	2021 08 16.97426	16 57 57.63	+73 23 22.1	18.1	T	K	970
C/2021 D2	2021 08 16.97839	16 57 56.72	+73 23 19.8	18.1	T	K	970
C/2021 D2	2021 08 17.03441	16 57 43.26	+73 22 54.3	18.6	T	K	Z10
C/2021 D2	2021 08 17.03989	16 57 42.28	+73 22 51.5	18.6	T	K	Z10
C/2021 D2	2021 08 17.04616	16 57 40.67	+73 22 48.8	18.4	T	K	Z10
C/2021 D2	2021 08 18.330076	16 52 48.49	+73 12 29.9	18.47o			T05
C/2021 D2	2021 08 18.333278	16 52 47.84	+73 12 28.6	18.46o			T05
C/2021 D2	2021 08 18.339742	16 52 46.32	+73 12 24.8	18.68o			T05
C/2021 D2	2021 08 18.349832	16 52 43.91	+73 12 18.0	18.79o			T05
C/2021 D2	2021 08 19.417956	16 48 49.518	+73 03 16.19	19.24i			F51
C/2021 D2	2021 08 19.430593	16 48 46.689	+73 03 09.86	19.31i			F51
C/2021 D2	2021 08 19.443098	16 48 44.017	+73 03 02.91	19.10i			F51
C/2021 D2	2021 08 20.264923	16 45 50.08	+72 55 51.0	17.49o			T08
C/2021 D2	2021 08 20.269204	16 45 49.05	+72 55 48.5	18.55o			T08
C/2021 D2	2021 08 20.275268	16 45 47.62	+72 55 45.4	18.65o			T08
C/2021 D2	2021 08 20.287701	16 45 45.07	+72 55 37.9	18.41o			T08
C/2021 D2	2021 08 20.83176	16 43 52.21	+72 50 44.0	18.3	T	K	L47
C/2021 D2	2021 08 20.86520	16 43 44.70	+72 50 25.3	18.2	T	K	L47
C/2021 D2	2021 08 20.96403	16 43 24.97	+72 49 31.1	18.7	T	K	213
C/2021 D2	2021 08 20.97594	16 43 22.24	+72 49 23.3	19.4	T	K	213
C/2021 D2	2021 08 20.98492	16 43 20.69	+72 49 18.9	19.3	T	K	213
C/2021 D2	2021 08 22.188785	16 39 19.34	+72 38 07.6				01 658
C/2021 D2	2021 08 22.192141	16 39 18.69	+72 38 05.8				01 658
C/2021 D2	2021 08 22.195486	16 39 18.07	+72 38 03.8				01 658
C/2021 D2	2021 08 22.198831	16 39 17.42	+72 38 01.9				01 658
C/2021 D2	2021 08 22.203299	16 39 16.43	+72 37 59.0				01 658
C/2021 D2	2021 08 23.93036	16 33 47.70	+72 21 14.1	18.0	T	K	970
C/2021 D2	2021 08 23.93447	16 33 46.96	+72 21 11.6	18.2	T	K	970
C/2021 D2	2021 08 23.93637	16 33 46.59	+72 21 10.4	18.2	T	K	C23
C/2021 D2	2021 08 23.94143	16 33 45.62	+72 21 07.0	17.8	T	K	C23
C/2021 D2	2021 08 26.282283	16 26 53.31	+71 57 19.8	17.81o			T05
C/2021 D2	2021 08 26.286886	16 26 52.09	+71 57 18.1	17.66o			T05
C/2021 D2	2021 08 26.293340	16 26 50.95	+71 57 13.9	17.68o			T05
C/2021 D2	2021 08 26.306175	16 26 48.83	+71 57 05.1	17.64o			T05
C/2021 D2	2021 08 27.93671	16 22 22.67	+71 39 51.2	17.8	T	K	I81
C/2021 D2	2021 08 27.93852	16 22 22.43	+71 39 49.9	18.0	T	K	I81
C/2021 D2	2021 08 27.94032	16 22 22.15	+71 39 48.6	18.1	T	K	I81
C/2021 D2	2021 08 28.247368	16 21 33.98	+71 36 33.2	18.54o			T08
C/2021 D2	2021 08 28.251570	16 21 33.28	+71 36 30.0	18.71o			T08
C/2021 D2	2021 08 28.257582	16 21 32.27	+71 36 26.1	18.56o			T08
C/2021 D2	2021 08 28.269131	16 21 30.67	+71 36 19.0	17.79o			T08
C/2021 D2	2021 08 31.95622	16 12 38.13	+70 55 43.4	17.9	T	K	I81
C/2021 D2	2021 08 31.95832	16 12 37.85	+70 55 42.0	18.1	T	K	I81
C/2021 D2	2021 08 31.96044	16 12 37.56	+70 55 40.5	18.4	T	K	I81
C/2021 D2	2021 09 01.273176	16 11 56.54	+70 52 11.1	17.56o			T08
C/2021 D2	2021 09 01.276400	16 11 55.93	+70 52 09.2	17.62o			T08
C/2021 D2	2021 09 01.283850	16 11 54.74	+70 52 04.4	18.56o			T08
C/2021 D2	2021 09 01.297697	16 11 52.74	+70 51 54.4	18.45o			T08
C/2021 D2	2021 09 01.80280	16 10 47.54	+70 46 12.8	17.7	T	K	215
C/2021 D2	2021 09 01.80409	16 10 47.31	+70 46 11.8	17.7	T	K	215
C/2021 D2	2021 09 01.80538	16 10 47.05	+70 46 10.9	17.8	T	K	215

C/2021 D2	2021 09 01.90418	16 10 34.32	+70 45 03.7	18.7	T	K77
C/2021 D2	2021 09 01.90771	16 10 33.85	+70 45 01.3	18.5	T	K77
C/2021 D2	2021 09 01.91124	16 10 33.29	+70 44 58.7	18.6	T	K77
C/2021 D2	2021 09 02.82980	16 08 38.38	+70 34 34.9	18.5	T	A71
C/2021 D2	2021 09 02.83106	16 08 38.32	+70 34 33.9	18.4	T	A71
C/2021 D2	2021 09 02.83233	16 08 38.14	+70 34 33.2	18.5	T	A71
C/2021 D2	2021 09 02.83358	16 08 38.02	+70 34 32.4	18.5	T	A71
C/2021 D2	2021 09 02.83609	16 08 37.60	+70 34 30.4	18.7	T	A71
C/2021 D2	2021 09 02.83734	16 08 37.60	+70 34 29.6	18.4	T	A71
C/2021 D2	2021 09 02.83860	16 08 37.38	+70 34 28.4	18.7	T	A71
C/2021 D2	2021 09 05.232293	16 03 59.51	+70 07 08.0	18.74o		T08
C/2021 D2	2021 09 05.242009	16 03 58.55	+70 07 00.8	17.71o		T08
C/2021 D2	2021 09 05.253541	16 03 57.26	+70 06 52.9	17.69o		T08
C/2021 D2	2021 09 05.87281	16 02 49.54	+69 59 45.4	18.3	T	B96
C/2021 D2	2021 09 05.87774	16 02 49.88	+69 59 40.9	19.1	T	B96
C/2021 D2	2021 09 05.88267	16 02 49.26	+69 59 40.2	18.1	T	B96
C/2021 D2	2021 09 05.91229	16 02 46.21	+69 59 17.2	18.1	N	K A77
C/2021 D2	2021 09 05.92051	16 02 45.21	+69 59 10.9	18.1	N	K A77
C/2021 D2	2021 09 05.92706	16 02 44.54	+69 59 06.0	18.3	N	K A77
C/2021 D2	2021 09 06.88461	16 01 05.18	+69 48 04.9	18.0	T	K C23
C/2021 D2	2021 09 06.88749	16 01 05.12	+69 48 02.3	18.1	T	K C23
C/2021 D2	2021 09 06.89038	16 01 04.78	+69 48 00.2	17.8	T	K C23
C/2021 D2	2021 09 06.94001	16 00 59.59	+69 47 26.2	18.0	T	K 970
C/2021 D2	2021 09 06.94412	16 00 59.19	+69 47 23.0	18.5	T	K 970
C/2021 D2	2021 09 07.90589	15 59 24.44	+69 36 17.5	18.3	T	K 970
C/2021 D2	2021 09 07.91006	15 59 24.03	+69 36 14.6	18.5	T	K 970
C/2021 D2	2021 09 08.151726	15 59 01.11	+69 33 27.9	17.77G		703
C/2021 D2	2021 09 08.157165	15 59 00.70	+69 33 24.1	17.78G		703
C/2021 D2	2021 09 08.162605	15 59 00.21	+69 33 20.2	17.99G		703
C/2021 D2	2021 09 08.168041	15 58 59.52	+69 33 16.7	17.98G		703
C/2021 D2	2021 09 11.254764	15 54 28.36	+68 57 44.4	18.42c		T05
C/2021 D2	2021 09 11.257966	15 54 28.24	+68 57 41.5	17.85c		T05
C/2021 D2	2021 09 11.264402	15 54 27.66	+68 57 37.1	18.14c		T05
C/2021 D2	2021 09 11.277756	15 54 26.67	+68 57 28.1	17.91c		T05
C/2021 D2	2021 09 13.128139	15 52 04.44	+68 36 17.8	17.75G		703
C/2021 D2	2021 09 13.133603	15 52 03.77	+68 36 13.4			703
C/2021 D2	2021 09 13.139065	15 52 03.44	+68 36 09.6	17.83G		703
C/2021 D2	2021 09 13.144530	15 52 03.19	+68 36 05.7	17.75G		703
C/2021 D2	2021 09 15.127764	15 49 46.19	+68 13 36.8	17.90G		703
C/2021 D2	2021 09 15.133117	15 49 46.02	+68 13 32.6	17.73G		703
C/2021 D2	2021 09 15.143827	15 49 45.18	+68 13 25.6	18.10G		703
C/2021 D2	2021 09 15.89605	15 48 57.06	+68 04 56.9	18.4	T	K 970
C/2021 D2	2021 09 15.90028	15 48 56.73	+68 04 53.9	18.2	T	K 970
C/2021 D2	2021 09 16.85087	15 47 59.27	+67 54 16.3	18.4	T	K Z10
C/2021 D2	2021 09 16.85469	15 47 59.08	+67 54 13.9	18.6	T	K Z10
C/2021 D2	2021 09 16.91400	15 47 55.71	+67 53 33.6	18.3	T	K 970
C/2021 D2	2021 09 16.91813	15 47 55.49	+67 53 30.1	18.6	T	K 970
C/2021 D2	2021 09 17.92170	15 46 58.50	+67 42 22.2	18.1	T	K 970
C/2021 D2	2021 09 17.92542	15 46 58.38	+67 42 19.4	18.0	T	K 970

C/2021 E3 (ZTF)

C/2021 E3	2021 06 05.202980	20 50 09.18	+37 27 00.4	18.4	T	KW62
C/2021 E3	2021 06 05.210255	20 50 08.88	+37 27 02.6	18.1	T	KW62
C/2021 E3	2021 06 05.217986	20 50 08.56	+37 27 04.3			KW62
C/2021 E3	2021 07 18.51239	20 00 07.79	+37 09 59.4	16.4	T	D95
C/2021 E3	2021 07 18.51346	20 00 07.75	+37 09 59.9			D95
C/2021 E3	2021 07 18.51884	20 00 07.24	+37 09 58.2			D95
C/2021 E3	2021 08 06.04731	19 31 34.60	+34 07 21.8	17.1	T	Z10
C/2021 E3	2021 08 06.05380	19 31 34.01	+34 07 16.8	16.9	T	Z10
C/2021 E3	2021 08 06.06103	19 31 33.35	+34 07 10.7	17.1	T	Z10
C/2021 E3	2021 08 06.86012	19 30 21.22	+33 56 30.1	16.3	T	K L47
C/2021 E3	2021 08 06.87514	19 30 19.82	+33 56 18.8	16.4	T	K L47
C/2021 E3	2021 08 06.91059	19 30 16.60	+33 55 50.0	16.5	T	A77
C/2021 E3	2021 08 06.91563	19 30 16.12	+33 55 46.0	16.7	T	A77
C/2021 E3	2021 08 06.91939	19 30 15.77	+33 55 42.7	16.5	T	K A77
C/2021 E3	2021 08 07.510883	19 29 22.51	+33 47 40.7	16.80c		T08
C/2021 E3	2021 08 07.518092	19 29 21.87	+33 47 34.7	16.86c		T08
C/2021 E3	2021 08 07.553678	19 29 18.66	+33 47 05.0	16.86c		T08
C/2021 E3	2021 08 07.558542	19 29 18.20	+33 47 01.1	16.83c		T08
C/2021 E3	2021 08 07.577485	19 29 16.64	+33 46 45.9	17.0	T	900
C/2021 E3	2021 08 07.584489	19 29 16.00	+33 46 40.1	17.0	T	900
C/2021 E3	2021 08 07.93628	19 28 44.52	+33 41 48.3	16.7	N	J36
C/2021 E3	2021 08 07.94106	19 28 44.08	+33 41 44.4	16.9	N	J36
C/2021 E3	2021 08 07.94584	19 28 43.65	+33 41 40.3	16.8	N	J36
C/2021 E3	2021 08 08.84863	19 27 23.19	+33 29 01.4	17.1	T	K 204
C/2021 E3	2021 08 08.93350	19 27 15.58	+33 27 49.1	17.3	T	K77
C/2021 E3	2021 08 08.93992	19 27 15.00	+33 27 44.1	17.0	T	K77
C/2021 E3	2021 08 08.98860	19 27 10.62	+33 27 02.1			K 204
C/2021 E3	2021 08 09.302674	19 26 42.80	+33 22 33.3			01 658
C/2021 E3	2021 08 09.307141	19 26 42.41	+33 22 29.4			01 658
C/2021 E3	2021 08 09.311597	19 26 42.01	+33 22 25.5			01 658
C/2021 E3	2021 08 09.316065	19 26 41.61	+33 22 21.5			01 658
C/2021 E3	2021 08 09.320521	19 26 41.21	+33 22 17.5			01 658
C/2021 E3	2021 08 09.472612	19 26 27.69	+33 20 07.8	16.49o		T05
C/2021 E3	2021 08 09.479249	19 26 27.07	+33 20 01.8	16.96o		T05
C/2021 E3	2021 08 09.485957	19 26 26.49	+33 19 56.0	16.94o		T05
C/2021 E3	2021 08 10.98050	19 24 15.21	+32 58 03.0	16.8	T	K 970
C/2021 E3	2021 08 10.98472	19 24 14.84	+32 57 59.1	16.8	T	K 970
C/2021 E3	2021 08 11.86080	19 22 58.69	+32 44 49.6	16.8	T	A71
C/2021 E3	2021 08 11.86204	19 22 58.59	+32 44 48.6	17.1	T	A71
C/2021 E3	2021 08 11.86329	19 22 58.48	+32 44 47.7	17.3	T	A71
C/2021 E3	2021 08 11.87172	19 22 57.29	+32 44 42.3	17.3	T	K L47
C/2021 E3	2021 08 11.90131	19 22 55.17	+32 44 13.1	17.0	T	K L47
C/2021 E3	2021 08 11.91091	19 22 54.34	+32 44 04.0	16.8	T	C23
C/2021 E3	2021 08 11.91235	19 22 54.22	+32 44 02.3	16.7	T	C23
C/2021 E3	2021 08 11.91524	19 22 53.99	+32 44 00.2	16.7	T	C23
C/2021 E3	2021 08 11.91668	19 22 53.87	+32 43 58.7	16.7	T	C23
C/2021 E3	2021 08 11.91813	19 22 53.76	+32 43 57.6	16.7	T	C23
C/2021 E3	2021 08 12.195637	19 22 29.81	+32 39 44.7			01 658
C/2021 E3	2021 08 12.201215	19 22 29.33	+32 39 39.5			01 658
C/2021 E3	2021 08 12.206794	19 22 28.84	+32 39 34.3			01 658
C/2021 E3	2021 08 12.212373	19 22 28.36	+32 39 29.0			01 658
C/2021 E3	2021 08 12.217951	19 22 27.88	+32 39 23.9			01 658
C/2021 E3	2021 08 12.82034	19 21 36.10	+32 30 08.0	17.1	T	K L47
C/2021 E3	2021 08 12.84806	19 21 33.72	+32 29 42.6	17.0	T	K L47
C/2021 E3	2021 08 13.00771	19 21 19.90	+32 27 13.8	16.7	T	970

C/2021 E3	2021 08 13.00853	19 21 19.82	+32 27 12.9	17.1 T		970
C/2021 E3	2021 08 13.348901	19 20 50.86	+32 21 56.4	16.64o		T05
C/2021 E3	2021 08 13.352117	19 20 50.58	+32 21 53.5	16.41o		T05
C/2021 E3	2021 08 13.357443	19 20 50.12	+32 21 48.4	16.36o		T05
C/2021 E3	2021 08 13.88192	19 20 05.42	+32 13 31.4	16.4 T		B96
C/2021 E3	2021 08 13.88685	19 20 05.01	+32 13 26.9	16.2 T		B96
C/2021 E3	2021 08 13.89178	19 20 04.61	+32 13 22.2	16.3 T		B96
C/2021 E3	2021 08 13.90253	19 20 03.64	+32 13 11.9	16.4 T		A98
C/2021 E3	2021 08 13.90533	19 20 03.42	+32 13 11.0	16.8 T	K	L47
C/2021 E3	2021 08 13.90539	19 20 03.41	+32 13 09.2	16.4 T		A98
C/2021 E3	2021 08 13.90968	19 20 03.09	+32 13 05.6	16.3 T		A98
C/2021 E3	2021 08 13.91254	19 20 02.81	+32 13 02.7	16.4 T		A98
C/2021 E3	2021 08 13.91540	19 20 02.56	+32 13 00.2	16.5 T		A98
C/2021 E3	2021 08 13.91826	19 20 02.32	+32 12 56.9	16.4 T		A98
C/2021 E3	2021 08 13.92232	19 20 02.05	+32 12 54.4	16.9 T	K	L47
C/2021 E3	2021 08 13.92255	19 20 01.89	+32 12 52.1	16.4 T		A98
C/2021 E3	2021 08 13.93999	19 20 00.51	+32 12 35.6	16.4 T		A98
C/2021 E3	2021 08 16.388379	19 16 35.92	+31 33 01.2	16.45o		T08
C/2021 E3	2021 08 16.391606	19 16 35.66	+31 32 58.2	16.95o		T08
C/2021 E3	2021 08 16.410736	19 16 34.05	+31 32 39.1	16.99o		T08
C/2021 E3	2021 08 16.419507	19 16 33.33	+31 32 30.2	16.43o		T08
C/2021 E3	2021 08 16.91358	19 15 52.92	+31 24 17.6	16.8 N		I72
C/2021 E3	2021 08 16.93271	19 15 51.42	+31 23 58.5	16.4 N		I72
C/2021 E3	2021 08 16.95148	19 15 49.82	+31 23 39.4	16.8 N		I72
C/2021 E3	2021 08 17.94305	19 14 29.22	+31 06 56.5	16.7 N		Z55
C/2021 E3	2021 08 17.94377	19 14 29.15	+31 06 55.5	16.8 N		Z55
C/2021 E3	2021 08 17.94448	19 14 29.13	+31 06 55.4	16.7 N		Z55
C/2021 E3	2021 08 17.94520	19 14 29.05	+31 06 54.1	16.6 N		Z55
C/2021 E3	2021 08 17.94591	19 14 29.00	+31 06 53.3	16.6 N		Z55
C/2021 E3	2021 08 18.88289	19 13 13.92	+30 50 51.5	16.9 T		B74
C/2021 E3	2021 08 18.88950	19 13 13.36	+30 50 44.2	16.8 T		B74
C/2021 E3	2021 08 18.89516	19 13 12.88	+30 50 38.4	16.8 T		B74
C/2021 E3	2021 08 18.929374	19 13 10.15	+30 50 03.2	17.1 T	K	G23
C/2021 E3	2021 08 18.943571	19 13 09.00	+30 49 48.1	17.0 T	K	G23
C/2021 E3	2021 08 18.957773	19 13 07.88	+30 49 33.8	17.2 T	K	G23
C/2021 E3	2021 08 19.332143	19 12 38.22	+30 43 05.9	16.41o		T08
C/2021 E3	2021 08 19.332603	19 12 38.20	+30 43 05.4	16.46o		T08
C/2021 E3	2021 08 19.338175	19 12 37.74	+30 42 59.6	16.89o		T08
C/2021 E3	2021 08 19.338636	19 12 37.71	+30 42 59.1	16.32o		T08
C/2021 E3	2021 08 21.97202	19 09 13.29	+29 56 20.5	16.4 T	K	J36
C/2021 E3	2021 08 21.97574	19 09 12.92	+29 56 16.2	16.6 T	K	J36
C/2021 E3	2021 08 21.97947	19 09 12.67	+29 56 11.2	16.5 T	K	J36
C/2021 E3	2021 08 23.384375	19 07 27.12	+29 30 37.8	16.39o		T08
C/2021 E3	2021 08 23.394560	19 07 26.35	+29 30 26.7	16.36o		T08
C/2021 E3	2021 08 23.404767	19 07 25.58	+29 30 15.3	16.39o		T08
C/2021 E3	2021 08 23.95630	19 06 44.86	+29 20 04.1	16.6 T	K	C23
C/2021 E3	2021 08 23.95919	19 06 44.61	+29 20 00.1	16.8 T	K	C23
C/2021 E3	2021 08 23.96208	19 06 44.39	+29 19 56.7	16.8 T	K	C23
C/2021 E3	2021 08 23.96496	19 06 44.18	+29 19 53.8	16.9 T	K	C23
C/2021 E3	2021 08 24.244491	19 06 23.74	+29 14 43.4			01 658
C/2021 E3	2021 08 24.247836	19 06 23.49	+29 14 39.6			01 658
C/2021 E3	2021 08 24.251181	19 06 23.24	+29 14 35.8			01 658
C/2021 E3	2021 08 24.254525	19 06 23.00	+29 14 32.0			01 658
C/2021 E3	2021 08 24.258993	19 06 22.65	+29 14 27.0			01 658
C/2021 E3	2021 08 25.369282	19 05 02.18	+28 53 42.0	16.30o		T05
C/2021 E3	2021 08 25.372483	19 05 01.94	+28 53 38.3	16.33o		T05
C/2021 E3	2021 08 25.378023	19 05 01.55	+28 53 32.3	16.31o		T05
C/2021 E3	2021 08 25.405326	19 04 59.56	+28 53 01.2	16.26o		T05
C/2021 E3	2021 08 25.91525	19 04 23.20	+28 43 23.0	17.1 T	K	160
C/2021 E3	2021 08 25.91868	19 04 22.96	+28 43 19.0	17.1 T	K	160
C/2021 E3	2021 08 25.92212	19 04 22.73	+28 43 14.6	17.2 T	K	160
C/2021 E3	2021 08 26.853258	19 03 17.25	+28 25 30.9	16.6 T		B74
C/2021 E3	2021 08 26.855943	19 03 17.05	+28 25 27.8	16.7 T		B74
C/2021 E3	2021 08 26.863999	19 03 16.44	+28 25 18.4	16.6 T		B74
C/2021 E3	2021 08 27.571202	19 02 27.38	+28 11 43.8	17.1 T		900
C/2021 E3	2021 08 27.578211	19 02 26.90	+28 11 35.7	17.1 T		900
C/2021 E3	2021 08 28.55149	19 01 20.60	+27 52 44.3			Q11
C/2021 E3	2021 08 28.56068	19 01 20.01	+27 52 33.4	16.2 T		Q11
C/2021 E3	2021 08 28.56846	19 01 19.47	+27 52 24.3			Q11
C/2021 E3	2021 08 28.58632	19 01 18.25	+27 52 03.6	16.1 T		349
C/2021 E3	2021 08 28.59863	19 01 17.45	+27 51 49.5			349
C/2021 E3	2021 08 28.61101	19 01 16.59	+27 51 34.5			349
C/2021 E3	2021 08 29.81017	18 59 56.95	+27 28 05.0	17.0 T	K	L47
C/2021 E3	2021 08 29.82614	18 59 55.81	+27 27 45.7	16.4 T	K	L47
C/2021 E3	2021 08 30.84318	18 58 49.67	+27 07 38.6	16.1 T	K	L47
C/2021 E3	2021 08 30.85918	18 58 48.64	+27 07 20.6	16.8 T	K	L47
C/2021 E3	2021 08 30.87449	18 58 47.73	+27 07 00.7	16.6 N		Z55
C/2021 E3	2021 08 30.87590	18 58 47.62	+27 06 59.0	16.6 N		Z55
C/2021 E3	2021 08 30.87730	18 58 47.56	+27 06 57.1	16.5 N		Z55
C/2021 E3	2021 08 30.87871	18 58 47.39	+27 06 55.9	16.4 N		Z55
C/2021 E3	2021 08 30.88011	18 58 47.35	+27 06 54.3	16.3 N		Z55
C/2021 E3	2021 09 01.82765	18 56 45.07	+26 27 52.1	16.6 T	K	215
C/2021 E3	2021 09 01.82894	18 56 44.99	+26 27 50.6	16.6 T	K	215
C/2021 E3	2021 09 01.83023	18 56 44.91	+26 27 48.9	16.6 T	K	215
C/2021 E3	2021 09 02.88997	18 55 40.62	+26 06 20.1	16.4 T		G06
C/2021 E3	2021 09 02.89356	18 55 40.42	+26 06 15.4	16.4 T		G06
C/2021 E3	2021 09 02.89715	18 55 40.20	+26 06 11.0	16.3 T		G06
C/2021 E3	2021 09 02.90434	18 55 39.76	+26 06 02.1	16.4 T		G06
C/2021 E3	2021 09 03.82547	18 54 45.31	+25 47 14.3	16.2 T	K	L47
C/2021 E3	2021 09 03.84155	18 54 44.48	+25 46 56.3	16.9 T	K	L47
C/2021 E3	2021 09 03.85749	18 54 43.45	+25 46 34.5	15.5 T		K77
C/2021 E3	2021 09 03.86931	18 54 42.80	+25 46 21.4	15.7 T		K77
C/2021 E3	2021 09 03.90737	18 54 40.50	+25 45 34.5	16.6 N		J36
C/2021 E3	2021 09 03.91119	18 54 40.28	+25 45 29.9	16.5 N		J36
C/2021 E3	2021 09 03.91979	18 54 39.76	+25 45 19.1	16.5 N		J36
C/2021 E3	2021 09 04.355405	18 54 14.46	+25 36 24.0	16.75o		T08
C/2021 E3	2021 09 04.373404	18 54 13.42	+25 36 01.7	16.76o		T08
C/2021 E3	2021 09 04.391660	18 54 12.35	+25 35 39.2	16.15o		T08
C/2021 E3	2021 09 04.82404	18 53 47.64	+25 26 44.0	17.1 T		A77
C/2021 E3	2021 09 04.83805	18 53 46.83	+25 26 26.7	17.0 T		A77
C/2021 E3	2021 09 04.92947	18 53 41.61	+25 24 34.5	16.6 T	K	Z10
C/2021 E3	2021 09 04.92997	18 53 41.61	+25 24 33.8	16.5 N		Z55
C/2021 E3	2021 09 04.93224	18 53 41.47	+25 24 31.1	16.5 N		Z55
C/2021 E3	2021 09 04.93326	18 53 41.40	+25 24 29.5	16.3 T	K	Z10
C/2021 E3	2021 09 04.93378	18 53 41.39	+25 24 29.0	16.5 N		Z55
C/2021 E3	2021 09 04.93783	18 53 41.16	+25 24 24.0	16.9 T	K	Z10

C/2021 E3	2021 09 05.85476	18 52 49.70	+25 05 26.1	15.9	T	B96
C/2021 E3	2021 09 05.86133	18 52 49.32	+25 05 17.7	15.9	T	B96
C/2021 E3	2021 09 05.86792	18 52 48.96	+25 05 09.8	16.0	T	B96
C/2021 E3	2021 09 05.86948	18 52 48.89	+25 05 08.8	17.0	T	K G18
C/2021 E3	2021 09 05.87225	18 52 48.75	+25 05 05.4	16.7	N	K A77
C/2021 E3	2021 09 05.87433	18 52 48.59	+25 05 02.3	16.2	T	K G18
C/2021 E3	2021 09 05.90150	18 52 47.13	+25 04 29.0	16.6	N	K A77
C/2021 E3	2021 09 05.90646	18 52 46.86	+25 04 23.3	16.6	N	K A77
C/2021 E3	2021 09 06.88432	18 51 53.39	+24 44 03.9	16.6	T	K 073
C/2021 E3	2021 09 06.89183	18 51 52.96	+24 43 54.4	16.6	T	K 073
C/2021 E3	2021 09 06.89895	18 51 52.59	+24 43 45.6	16.6	T	K 073
C/2021 E3	2021 09 06.90370	18 51 52.34	+24 43 39.3	16.5	T	C23
C/2021 E3	2021 09 06.90658	18 51 52.18	+24 43 36.3	16.4	T	C23
C/2021 E3	2021 09 06.91091	18 51 51.98	+24 43 31.0	16.4	T	C23
C/2021 E3	2021 09 06.95019	18 51 49.87	+24 42 41.5	16.7	T	K 970
C/2021 E3	2021 09 06.95350	18 51 49.66	+24 42 37.2	16.5	T	K 970
C/2021 E3	2021 09 07.89968	18 50 59.50	+24 22 52.8			K J36
C/2021 E3	2021 09 07.90733	18 50 59.09	+24 22 43.2	16.2	T	K J36
C/2021 E3	2021 09 07.91067	18 50 58.92	+24 22 38.8	16.3	T	K J36
C/2021 E3	2021 09 07.91491	18 50 58.70	+24 22 33.0	16.4	T	K 970
C/2021 E3	2021 09 07.91904	18 50 58.49	+24 22 27.8	16.3	T	K 970
C/2021 E3	2021 09 08.321593	18 50 37.54	+24 14 03.6	16.24o		T08
C/2021 E3	2021 09 08.323006	18 50 37.44	+24 14 01.8	16.79o		T08
C/2021 E3	2021 09 08.325792	18 50 37.31	+24 13 58.5	16.70o		T08
C/2021 E3	2021 09 08.344703	18 50 36.31	+24 13 34.6	16.74o		T08
C/2021 E3	2021 09 08.345624	18 50 36.26	+24 13 33.3	16.78o		T08
C/2021 E3	2021 09 08.79105	18 50 13.45	+24 04 11.8	16.4	T	A71
C/2021 E3	2021 09 08.79693	18 50 13.16	+24 04 04.0	16.6	T	A71
C/2021 E3	2021 09 08.79840	18 50 13.12	+24 04 02.4	16.5	T	A71
C/2021 E3	2021 09 08.79987	18 50 13.03	+24 04 00.4	16.6	T	A71
C/2021 E3	2021 09 09.91778	18 49 16.84	+23 40 26.6	16.6	T	A98
C/2021 E3	2021 09 09.92064	18 49 16.68	+23 40 23.1	16.5	T	A98
C/2021 E3	2021 09 09.92350	18 49 16.62	+23 40 20.1	16.6	T	A98
C/2021 E3	2021 09 09.92636	18 49 16.46	+23 40 16.5	16.6	T	A98
C/2021 E3	2021 09 09.92922	18 49 16.31	+23 40 12.7	16.5	T	A98
C/2021 E3	2021 09 10.274137	18 48 59.51	+23 32 59.1	16.91c		T05
C/2021 E3	2021 09 10.277861	18 48 59.34	+23 32 54.3	16.37c		T05
C/2021 E3	2021 09 10.293089	18 48 58.59	+23 32 35.1	16.45c		T05
C/2021 E3	2021 09 10.83639	18 48 32.37	+23 21 04.5	16.4	T	L79
C/2021 E3	2021 09 10.83911	18 48 32.21	+23 21 01.2	16.4	T	L79
C/2021 E3	2021 09 10.84166	18 48 32.04	+23 20 57.6	16.4	T	L79
C/2021 E3	2021 09 10.88342	18 48 29.96	+23 20 06.3	16.1	N	Z55
C/2021 E3	2021 09 10.88962	18 48 29.79	+23 19 57.7	16.5	N	Z55
C/2021 E3	2021 09 10.89104	18 48 29.72	+23 19 55.7	16.5	N	Z55
C/2021 E3	2021 09 10.89245	18 48 29.64	+23 19 54.0	16.5	N	Z55
C/2021 E3	2021 09 10.904016	18 48 29.08	+23 19 39.5	16.9	T	K G23
C/2021 E3	2021 09 10.918137	18 48 28.39	+23 19 21.2	17.6	T	K G23
C/2021 E3	2021 09 10.932265	18 48 27.70	+23 19 03.8	17.2	T	K G23
C/2021 E3	2021 09 11.82559	18 47 45.77	+23 00 08.4	16.4	T	K C10
C/2021 E3	2021 09 11.83671	18 47 45.21	+22 59 54.0	16.4	T	K C10
C/2021 E3	2021 09 11.84782	18 47 44.69	+22 59 39.8	16.4	T	K C10
C/2021 E3	2021 09 11.85059	18 47 44.59	+22 59 36.9	16.0	T	Z57
C/2021 E3	2021 09 11.85204	18 47 44.51	+22 59 34.8	15.7	T	Z57
C/2021 E3	2021 09 11.85348	18 47 44.45	+22 59 33.2	16.0	T	Z57
C/2021 E3	2021 09 11.85493	18 47 44.36	+22 59 31.3	16.0	T	Z57
C/2021 E3	2021 09 11.85638	18 47 44.28	+22 59 29.5	15.8	T	Z57
C/2021 E3	2021 09 11.85782	18 47 44.23	+22 59 27.6	15.8	T	Z57
C/2021 E3	2021 09 11.85927	18 47 44.17	+22 59 25.6	15.7	T	Z57
C/2021 E3	2021 09 11.86072	18 47 44.09	+22 59 24.1	15.8	T	Z57
C/2021 E3	2021 09 11.86216	18 47 44.02	+22 59 22.0	16.0	T	Z57
C/2021 E3	2021 09 11.86360	18 47 43.96	+22 59 20.1	15.8	T	Z57
C/2021 E3	2021 09 11.86785	18 47 43.82	+22 59 15.9	16.5	N	J22
C/2021 E3	2021 09 11.87160	18 47 43.60	+22 59 10.8	16.5	N	J22
C/2021 E3	2021 09 11.87529	18 47 43.47	+22 59 06.6	16.5	N	J22
C/2021 E3	2021 09 11.899869	18 47 42.18	+22 58 33.4	16.4	T	K G23
C/2021 E3	2021 09 11.913993	18 47 41.55	+22 58 15.3	16.4	T	K G23
C/2021 E3	2021 09 11.928124	18 47 40.90	+22 57 57.2	16.2	T	K G23
C/2021 E3	2021 09 11.97548	18 47 38.70	+22 56 56.9	16.5	T	K Z10
C/2021 E3	2021 09 11.97939	18 47 38.53	+22 56 52.3	16.6	T	K Z10
C/2021 E3	2021 09 12.283059	18 47 24.68	+22 50 27.0	16.09o		T08
C/2021 E3	2021 09 12.290161	18 47 24.35	+22 50 17.7	16.17o		T08
C/2021 E3	2021 09 12.293426	18 47 24.19	+22 50 13.8	16.11o		T08
C/2021 E3	2021 09 12.306132	18 47 23.60	+22 49 57.5	16.10o		T08
C/2021 E3	2021 09 13.91058	18 46 12.32	+22 15 48.1	16.1	T	I81
C/2021 E3	2021 09 13.91198	18 46 12.27	+22 15 46.3	16.2	T	K I81
C/2021 E3	2021 09 13.91339	18 46 12.18	+22 15 44.5	16.0	T	I81
C/2021 E3	2021 09 14.216794	18 45 59.12	+22 09 17.1			01 658
C/2021 E3	2021 09 14.220139	18 45 58.98	+22 09 12.8			01 658
C/2021 E3	2021 09 14.223495	18 45 58.84	+22 09 08.4			01 658
C/2021 E3	2021 09 14.226840	18 45 58.69	+22 09 04.1			01 658
C/2021 E3	2021 09 14.230185	18 45 58.55	+22 08 59.8			01 658
C/2021 E3	2021 09 14.264432	18 45 57.16	+22 08 17.4	16.11o		T05
C/2021 E3	2021 09 14.268625	18 45 56.97	+22 08 12.1	16.13o		T05
C/2021 E3	2021 09 14.274599	18 45 56.68	+22 08 04.4	16.58o		T05
C/2021 E3	2021 09 15.90514	18 44 49.10	+21 33 14.7	16.5	T	K 970
C/2021 E3	2021 09 15.90929	18 44 48.92	+21 33 09.5	16.4	T	K 970
C/2021 E3	2021 09 15.94882	18 44 47.36	+21 32 18.4	16.5	T	C23
C/2021 E3	2021 09 15.95315	18 44 47.13	+21 32 13.1	16.6	T	C23
C/2021 E3	2021 09 15.95748	18 44 46.96	+21 32 07.7	16.5	T	C23
C/2021 E3	2021 09 16.28248	18 44 34.08	+21 25 12.9	19	R	C51
Geocentric position (km)		+ 2254.2832	− 5909.4598	+ 2633.9118		
C/2021 E3	2021 09 16.41326	18 44 28.98	+21 22 24.6			C51
Geocentric position (km)		+ 2254.7669	− 5889.3952	+ 2677.8616		
C/2021 E3	2021 09 16.54391	18 44 23.97	+21 19 39.5			C51
Geocentric position (km)		+ 2277.4168	− 5895.4666	+ 2645.2508		
C/2021 E3	2021 09 16.60923	18 44 21.21	+21 18 12.9			C51
Geocentric position (km)		+ 2288.7465	− 5898.4288	+ 2628.8642		
C/2021 E3	2021 09 16.88949	18 44 10.23	+21 12 12.6	16.3	T	K J36
C/2021 E3	2021 09 16.89332	18 44 10.06	+21 12 07.7	16.4	T	K J36
C/2021 E3	2021 09 16.89714	18 44 09.96	+21 12 03.1	16.2	T	K J36
C/2021 E3	2021 09 16.92296	18 44 08.93	+21 11 29.4	16.0	T	K 970
C/2021 E3	2021 09 16.92709	18 44 08.79	+21 11 24.6	16.2	T	K 970
C/2021 E3	2021 09 16.93598	18 44 08.50	+21 11 14.8			C51
Geocentric position (km)		+ 2323.0898	− 5887.1177	+ 2624.0399		
C/2021 E3	2021 09 17.00130	18 44 06.01	+21 09 51.0			C51
Geocentric position (km)		+ 2334.4021	− 5889.9204	+ 2607.7260		

C/2021 E3	2021 09 17.13208	18 44 00.97	+21 07 02.6				C51
Geocentric position (km)		+ 2334.6873	− 5869.9606	+ 2651.8784			
C/2021 E3	2021 09 17.26273	18 43 56.06	+21 04 16.0				C51
Geocentric position (km)		+ 2357.3514	− 5875.5747	+ 2619.3004			
C/2021 E3	2021 09 17.93559	18 43 30.59	+20 49 50.4	16.2	T		970
C/2021 E3	2021 09 17.93642	18 43 30.49	+20 49 48.9	16.7	T		970
C/2021 E3	2021 09 18.292099	18 43 17.44	+20 42 14.3	16.11o			T05
C/2021 E3	2021 09 18.295320	18 43 17.33	+20 42 10.4	16.07o			T05
C/2021 E3	2021 09 18.304062	18 43 17.00	+20 41 58.9	16.07o			T05
C/2021 E3	2021 09 18.314194	18 43 16.61	+20 41 45.9	16.57o			T05
C/2021 E3	2021 09 19.81317	18 42 23.53	+20 09 40.9	15.3	T	K	L47
C/2021 E3	2021 09 19.82710	18 42 22.99	+20 09 24.3	15.9	T	K	L47
C/2021 E3	2021 09 19.87286	18 42 21.40	+20 08 25.1	16.4	N		Z55
C/2021 E3	2021 09 19.87421	18 42 21.37	+20 08 23.0	16.4	N		Z55
C/2021 E3	2021 09 19.87545	18 42 21.34	+20 08 21.8	16.5	N		Z55
C/2021 E3	2021 09 19.87668	18 42 21.26	+20 08 20.0	16.3	N		Z55
C/2021 E3	2021 09 19.87790	18 42 21.23	+20 08 18.2	16.6	N		Z55

A/2021 F1

A/2021 F1	2021 08 09.248332	12 42 24.326	+22 37 44.21	21.3	G	29	568
A/2021 F1	2021 08 09.250239	12 42 24.374	+22 37 43.93	21.2	G	29	568

P/2021 HS (PANSTARRS)

P/2021 HS	2021 04 10.464515	12 43 13.803	−28 36 26.34	20.98G			F52
P/2021 HS	2021 04 10.481252	12 43 11.998	−28 36 20.76	20.90G			F52
P/2021 HS	2021 04 16.367230	12 32 37.791	−27 54 33.36	20.64w			F51
P/2021 HS	2021 04 16.379330	12 32 36.387	−27 54 27.05	20.86w			F51
P/2021 HS	2021 04 16.391409	12 32 34.986	−27 54 20.64	20.77w			F51
P/2021 HS	2021 04 16.403470	12 32 33.584	−27 54 14.30	20.94w			F51
P/2021 HS	2021 04 17.168949	12 31 08.28	−27 47 23.4	20.07G		K	I52
P/2021 HS	2021 04 17.173171	12 31 07.81	−27 47 21.0	20.62G		K	I52
P/2021 HS	2021 04 17.174707	12 31 07.62	−27 47 20.0	20.62G		K	I52
P/2021 HS	2021 04 17.380926	12 30 44.46	−27 45 13.5	20.8	G	K	474
P/2021 HS	2021 04 17.384445	12 30 44.02	−27 45 12.2	20.8	G	K	474
P/2021 HS	2021 04 17.391480	12 30 43.20	−27 45 07.7	20.5	G	K	474
P/2021 HS	2021 04 18.18258	12 29 14.02	−27 37 46.5			K	691
P/2021 HS	2021 04 18.19813	12 29 12.20	−27 37 37.3	19.9	R	K	691
P/2021 HS	2021 04 18.21368	12 29 10.37	−27 37 26.5	18.6	R	K	691
P/2021 HS	2021 04 18.291742	12 29 01.695	−27 36 41.10	20.70w			F52
P/2021 HS	2021 04 18.301984	12 29 00.507	−27 36 35.19	20.43w			F52
P/2021 HS	2021 04 18.312313	12 28 59.282	−27 36 29.20	20.64w			F52
P/2021 HS	2021 04 18.326650	12 28 57.08	−27 36 22.9	20.25G		K	I52
P/2021 HS	2021 04 18.328185	12 28 56.94	−27 36 20.5	20.40G		K	I52
P/2021 HS	2021 04 18.329721	12 28 56.74	−27 36 20.7	20.40G		K	I52
P/2021 HS	2021 04 21.217156	12 23 27.58	−27 05 34.1			K	I52
P/2021 HS	2021 04 21.219534	12 23 27.29	−27 05 31.6	22.61G		K	I52
P/2021 HS	2021 04 21.221910	12 23 26.93	−27 05 30.8	21.50G		K	I52
P/2021 HS	2021 04 30.11059	12 06 31.03	−25 01 56.9	20.6	V	32	807
P/2021 HS	2021 04 30.11381	12 06 30.64	−25 01 53.7	20.3	V	32	807
P/2021 HS	2021 04 30.11710	12 06 30.25	−25 01 50.6	20.4	V	32	807
P/2021 HS	2021 05 01.260034	12 04 22.94	−24 43 12.4	20.93G		H	I52
P/2021 HS	2021 05 01.286192	12 04 19.95	−24 42 45.2	19.98G		H	I52
P/2021 HS	2021 05 03.236468	12 00 46.88	−24 09 14.1	19.78G		H	I52
P/2021 HS	2021 05 03.241200	12 00 46.32	−24 09 09.8			H	I52
P/2021 HS	2021 05 03.244466	12 00 45.94	−24 09 05.3	21.50G		H	I52
P/2021 HS	2021 05 03.245234	12 00 45.83	−24 09 04.1			H	I52
P/2021 HS	2021 05 05.209105	11 57 16.77	−23 33 36.6	20.41G		H	I52
P/2021 HS	2021 05 05.235381	11 57 13.86	−23 33 07.9			H	I52
P/2021 HS	2021 05 06.16003	11 55 38.10	−23 15 50.4	20.3	R	K	691
P/2021 HS	2021 05 06.163353	11 55 37.80	−23 15 47.9			H	I52
P/2021 HS	2021 05 06.16399	11 55 37.59	−23 15 45.9	19.9	R	K	691
P/2021 HS	2021 05 06.165691	11 55 37.50	−23 15 45.2	20.98G		H	I52
P/2021 HS	2021 05 06.166458	11 55 37.35	−23 15 44.4	20.66G		H	I52
P/2021 HS	2021 05 06.16794	11 55 37.20	−23 15 41.8	20.5	R	K	691
P/2021 HS	2021 05 06.169013	11 55 37.05	−23 15 41.5	20.60G		H	I52
P/2021 HS	2021 05 07.159790	11 53 55.71	−22 56 50.5	20.95G			I52
P/2021 HS	2021 05 07.162254	11 53 55.47	−22 56 46.9	20.71G			I52
P/2021 HS	2021 05 07.163021	11 53 55.40	−22 56 45.8	20.55G			I52
P/2021 HS	2021 05 07.165484	11 53 55.06	−22 56 42.5				I52
P/2021 HS	2021 05 09.198682	11 50 33.24	−22 16 53.1	20.29G		H	I52
P/2021 HS	2021 05 09.200320	11 50 33.02	−22 16 51.2	21.33G		H	I52
P/2021 HS	2021 05 09.202728	11 50 32.79	−22 16 48.6	21.29G		H	I52
P/2021 HS	2021 05 10.230424	11 48 54.27	−21 56 08.8	21.55G		H	I52
P/2021 HS	2021 05 10.231191	11 48 54.09	−21 56 09.1			H	I52
P/2021 HS	2021 05 10.232739	11 48 53.93	−21 56 06.8			H	I52
P/2021 HS	2021 05 13.21630	11 44 22.31	−20 54 27.3	20.1	R	K	691
P/2021 HS	2021 05 13.22509	11 44 21.47	−20 54 15.9	19.7	R	K	691
P/2021 HS	2021 05 13.23387	11 44 20.71	−20 54 05.0	20.5	R	K	691
P/2021 HS	2021 05 14.265334	11 42 52.554	−20 32 13.23	20.37w			F51
P/2021 HS	2021 05 14.276362	11 42 51.572	−20 31 59.13	20.39w			F51
P/2021 HS	2021 05 14.287385	11 42 50.576	−20 31 45.03	20.41w			F51
P/2021 HS	2021 05 14.298435	11 42 49.587	−20 31 30.86	20.33w			F51
P/2021 HS	2021 05 18.19584	11 37 41.78	−19 07 07.2	20.5	R	H	691
P/2021 HS	2021 05 18.20148	11 37 41.31	−19 07 00.5			H	691
P/2021 HS	2021 05 18.20712	11 37 40.90	−19 06 52.7	20.2	R	H	691
P/2021 HS	2021 05 20.16267	11 35 23.39	−18 23 40.1	20.5	R	K	691
P/2021 HS	2021 05 20.17214	11 35 22.71	−18 23 28.0	20.5	R	K	691
P/2021 HS	2021 05 20.18162	11 35 22.04	−18 23 15.2	20.5	R	K	691
P/2021 HS	2021 05 28.42724	11 27 50.01	−15 17 47.1	18	R		C51
Geocentric position (km)		− 6377.0706	− 870.0271	− 2366.1030			
P/2021 HS	2021 05 28.55802	11 27 44.49	−15 14 49.9				C51
Geocentric position (km)		− 6386.0347	− 881.6927	− 2337.9048			
P/2021 HS	2021 05 28.68879	11 27 39.08	−15 11 52.3				C51
Geocentric position (km)		− 6395.0441	− 893.2657	− 2308.6486			
P/2021 HS	2021 05 28.75412	11 27 36.39	−15 10 23.4				C51
Geocentric position (km)		− 6384.8387	− 902.6951	− 2333.1600			
P/2021 HS	2021 05 29.03181	11 27 25.12	−15 04 04.9	19.8	V	32	807
P/2021 HS	2021 05 29.03501	11 27 24.98	−15 04 00.3	20.1	V	32	807
P/2021 HS	2021 05 29.03820	11 27 24.85	−15 03 56.1	20.1	V	32	807
P/2021 HS	2021 05 29.14632	11 27 20.46	−15 01 31.4				C51
Geocentric position (km)		− 6382.3230	− 944.6788	− 2323.3975			
P/2021 HS	2021 05 29.27697	11 27 15.27	−14 58 34.1				C51
Geocentric position (km)		− 6361.5942	− 963.2974	− 2372.2013			
P/2021 HS	2021 05 30.19450	11 26 40.13	−14 38 00.1	20.4	G	K	291
P/2021 HS	2021 05 30.19992	11 26 39.92	−14 37 52.7	20.6	G	K	291
P/2021 HS	2021 05 30.20535	11 26 39.70	−14 37 45.1	20.4	G	K	291
P/2021 HS	2021 05 31.19077	11 26 05.08	−14 15 28.3	21.0	R	H	691

P/2021 HS	2021 05 31.19733	11 26 04.86	−14 15 19.5	20.5	R	H	691
P/2021 HS	2021 05 31.20389	11 26 04.65	−14 15 10.0	20.2	R	H	691
P/2021 HS	2021 06 02.03155	11 25 08.48	−13 33 37.6	20.3	V	32	807
P/2021 HS	2021 06 02.03470	11 25 08.32	−13 33 33.0	19.9	V	32	807
P/2021 HS	2021 06 02.03788	11 25 08.25	−13 33 29.1	19.9	V	32	807
P/2021 HS	2021 06 03.15389	11 24 38.84	−13 08 30.3	20.7	R	K	291
P/2021 HS	2021 06 03.15764	11 24 38.75	−13 08 24.8	20.6	R	K	291
P/2021 HS	2021 06 03.16139	11 24 38.66	−13 08 20.0	20.1	R	K	291
P/2021 HS	2021 06 04.18131	11 24 14.90	−12 45 17.7	20.4	R	H	691
P/2021 HS	2021 06 04.19074	11 24 14.66	−12 45 05.0	20.4	R	H	691
P/2021 HS	2021 06 04.20016	11 24 14.44	−12 44 52.1	20.5	R	H	691
P/2021 HS	2021 06 08.18884	11 23 11.67	−11 14 53.8	20.6	R	K	691
P/2021 HS	2021 06 08.20421	11 23 11.53	−11 14 33.0	19.6	R	K	691
P/2021 HS	2021 06 09.02662	11 23 04.41	−10 55 46.9	20.5	V	32	807
P/2021 HS	2021 06 09.03066	11 23 04.42	−10 55 40.8	20.4	V	32	807
P/2021 HS	2021 06 11.153968	11 22 54.28	−10 08 00.9				G96
P/2021 HS	2021 06 11.159141	11 22 54.25	−10 07 54.3	20.01	G		G96
P/2021 HS	2021 06 11.164310	11 22 54.21	−10 07 47.6	20.32	G		G96
P/2021 HS	2021 06 11.169479	11 22 54.14	−10 07 40.4	19.92	G		G96
P/2021 HS	2021 06 11.99101	11 22 53.91	−09 48 50.9	19.8	G	32	807
P/2021 HS	2021 06 11.99504	11 22 53.82	−09 48 45.4	20.2	G	32	807
P/2021 HS	2021 06 11.99916	11 22 53.83	−09 48 39.4	20.2	G	32	807
P/2021 HS	2021 06 12.99476	11 22 55.43	−09 26 07.0	20.7	V	32	807
P/2021 HS	2021 06 12.99918	11 22 55.43	−09 26 00.9	20.7	V	32	807
P/2021 HS	2021 06 13.00361	11 22 55.40	−09 25 54.8	20.4	V	32	807
P/2021 HS	2021 06 13.96283	11 22 59.56	−09 04 08.8	20.3	V	32	807
P/2021 HS	2021 06 13.96722	11 22 59.56	−09 04 02.5	20.1	V	32	807
P/2021 HS	2021 06 13.97144	11 22 59.57	−09 03 56.8	20.7	V	32	807
P/2021 HS	2021 06 20.96291	11 24 32.50	−06 22 06.4	19.8	V	32	807
P/2021 HS	2021 06 20.96620	11 24 32.54	−06 22 01.7	19.9	V	32	807
P/2021 HS	2021 06 20.96948	11 24 32.62	−06 21 56.7	20.5	V	32	807
P/2021 HS	2021 06 22.16913	11 24 58.07	−05 53 30.6	20.0	R	K	691
P/2021 HS	2021 06 22.18036	11 24 58.35	−05 53 13.6	19.7	R	K	691
P/2021 HS	2021 06 22.19158	11 24 58.50	−05 52 58.0	19.6	R	K	691
P/2021 HS	2021 06 27.16685	11 27 09.85	−03 48 46.9	20.0	G	K	291
P/2021 HS	2021 06 27.16990	11 27 09.91	−03 48 41.9	20.2	G	K	291
P/2021 HS	2021 06 27.17297	11 27 09.98	−03 48 36.6	20.1	G	K	291
P/2021 HS	2021 06 27.98636	11 27 34.70	−03 26 59.5	20.3	V	32	807
P/2021 HS	2021 06 27.98959	11 27 34.80	−03 26 54.3	20.0	V	32	807
P/2021 HS	2021 06 27.99282	11 27 34.91	−03 26 49.4	20.0	V	32	807
P/2021 HS	2021 07 04.40198	11 31 03.45	−00 24 08.9				01Q62
P/2021 HS	2021 07 04.40495	11 31 03.51	−00 24 03.6	19.0	G		01Q62
P/2021 HS	2021 07 06.38856	11 32 09.51	+00 39 18.6				01Q62
P/2021 HS	2021 07 06.39156	11 32 09.62	+00 39 24.8				01Q62
P/2021 HS	2021 07 06.39455	11 32 09.71	+00 39 30.8	18.8	G		01Q62
P/2021 HS	2021 07 09.75939	11 33 55.18	+02 37 02.2	19.5	G		01 L81
P/2021 HS	2021 07 09.77597	11 33 55.57	+02 37 39.2				01 L81
P/2021 HS	2021 07 10.73620	11 34 23.24	+03 13 55.1				01 L81
P/2021 HS	2021 07 10.79571	11 34 24.60	+03 16 12.5	19.9	G		01 L81
P/2021 HS	2021 09 04.06184	07 00 30.78	+59 08 43.4	20.0	G	K	A17
P/2021 HS	2021 09 04.07367	07 00 25.46	+59 08 38.9	19.6	G	K	A17
P/2021 HS	2021 09 04.08549	07 00 20.10	+59 08 34.7	20.1	G	K	A17
P/2021 HS	2021 09 04.20163	06 59 28.77	+59 07 51.1				Z17
P/2021 HS	2021 09 04.20874	06 59 25.39	+59 07 50.0				Z17
P/2021 HS	2021 09 05.01618	06 53 30.17	+59 00 51.8	19.9	G	K	A17
P/2021 HS	2021 09 05.02799	06 53 25.09	+59 00 46.6	20.0	G	K	A17
P/2021 HS	2021 09 05.03961	06 53 20.06	+59 00 41.1	20.2	G	K	A17
P/2021 HS	2021 09 12.03497	06 10 02.46	+57 32 10.1	19.6	G	K	A17
P/2021 HS	2021 09 12.04679	06 09 58.61	+57 32 00.6	19.7	G	K	A17
P/2021 HS	2021 09 12.05763	06 09 55.13	+57 31 51.5	19.8	G	K	A17

C/2021 J1 (Maury-Attard)

C/2021 J1	2021 06 07.49185	18 49 03.85	−61 27 59.0				01Q62
C/2021 J1	2021 06 07.49452	18 49 03.07	−61 28 05.7				01Q62
C/2021 J1	2021 06 07.49719	18 49 02.16	−61 28 13.1	19.4	T		01Q62

C/2021 J2 (PANSTARRS)

C/2021 J2	2021 08 06.249334	13 39 29.441	−04 29 00.59	21.6	T	29	568
C/2021 J2	2021 08 06.251934	13 39 29.395	−04 29 01.04	21.7	T	29	568
C/2021 J2	2021 08 06.254533	13 39 29.350	−04 29 01.47	21.8	T	29	568

P/2021 J3 (ATLAS)

P/2021 J3	2021 08 05.382677	20 38 27.06	−23 28 45.6	19.11	c		T08
P/2021 J3	2021 08 05.384520	20 38 27.06	−23 28 45.5	18.81	c		T08
P/2021 J3	2021 08 05.387745	20 38 26.91	−23 28 46.9	18.89	c		T08
P/2021 J3	2021 08 05.394650	20 38 26.82	−23 28 48.5	19.30	c		T08
P/2021 J3	2021 08 05.402479	20 38 26.61	−23 28 50.2	19.22	c		T08
P/2021 J3	2021 08 06.02341	20 38 10.81	−23 30 24.9	18.8	T		X03
P/2021 J3	2021 08 06.04155	20 38 10.33	−23 30 27.9	18.3	T	K	X03
P/2021 J3	2021 08 06.06596	20 38 09.70	−23 30 32.2	18.3	T		X03
P/2021 J3	2021 08 07.390833	20 37 35.94	−23 33 59.2	17.58	o		T05
P/2021 J3	2021 08 07.392663	20 37 35.88	−23 33 59.3	18.98	o		T05
P/2021 J3	2021 08 07.395869	20 37 35.76	−23 34 00.3	18.99	o		T05
P/2021 J3	2021 08 07.401351	20 37 35.67	−23 33 59.7	18.14	o		T05
P/2021 J3	2021 08 13.423364	20 35 06.24	−23 48 50.0	19.09	c		T08
P/2021 J3	2021 08 13.458911	20 35 05.34	−23 48 55.3	19.06	c		T08
P/2021 J3	2021 08 13.462145	20 35 05.28	−23 48 55.3	19.16	c		T08
P/2021 J3	2021 08 13.467725	20 35 05.16	−23 48 55.7	19.40	c		T08
P/2021 J3	2021 08 15.359105	20 34 20.05	−23 53 18.2	18.91	o		T05
P/2021 J3	2021 08 15.360935	20 34 19.89	−23 53 18.5	18.80	o		T05
P/2021 J3	2021 08 15.421882	20 34 18.49	−23 53 29.0	18.99	o		T05
P/2021 J3	2021 08 15.425566	20 34 18.34	−23 53 27.6	18.92	o		T05
P/2021 J3	2021 08 15.51746	20 34 16.20	−23 53 39.0	18.4	T	K	E94
P/2021 J3	2021 08 15.52765	20 34 15.99	−23 53 39.7	18.4	T	K	E94
P/2021 J3	2021 08 15.53693	20 34 15.76	−23 53 40.6	18.5	T	K	E94
P/2021 J3	2021 08 28.302140	20 29 43.061	−24 19 11.91	20.02	w		F51
P/2021 J3	2021 08 28.313759	20 29 42.805	−24 19 13.29	20.05	w		F51
P/2021 J3	2021 08 28.325378	20 29 42.605	−24 19 14.22	20.26	w		F51
P/2021 J3	2021 08 28.337010	20 29 42.360	−24 19 15.52	20.24	w		F51
P/2021 J3	2021 09 04.890333	20 27 34.44	−24 30 50.4	19.7	T	K	B74
P/2021 J3	2021 09 04.896774	20 27 34.37	−24 30 50.4	19.5	T	K	B74
P/2021 J3	2021 09 04.903385	20 27 34.30	−24 30 51.3	19.5	T	K	B74
P/2021 J3	2021 09 07.297696	20 26 59.924	−24 33 56.76	20.40	w		F51
P/2021 J3	2021 09 07.319477	20 26 59.601	−24 33 58.21	20.56	w		F51
P/2021 J3	2021 09 07.330427	20 26 59.407	−24 33 59.06	20.57	w		F51
P/2021 J3	2021 09 09.51313	20 26 31.00	−24 36 34.3	18.7	T	K	Q11

P/2021 J3	2021 09 09.51878	20 26 30.93	−24 36 34.8		K	Q11
P/2021 J3	2021 09 09.52479	20 26 30.86	−24 36 35.2		K	Q11

C/2021 K1 (ATLAS)

C/2021 K1	2021 06 05.81442	00 01 08.82	−04 21 56.5			01Q62
C/2021 K1	2021 06 05.81620	00 01 08.99	−04 21 56.2			01Q62
C/2021 K1	2021 06 05.81800	00 01 09.14	−04 21 55.7	16.0 T		01Q62
C/2021 K1	2021 08 06.524644	01 09 45.90	−05 43 05.7	16.27c		T08
C/2021 K1	2021 08 06.535330	01 09 46.26	−05 43 09.9	17.19c		T08
C/2021 K1	2021 08 06.544928	01 09 46.55	−05 43 13.3	16.28c		T08
C/2021 K1	2021 08 06.548625	01 09 46.65	−05 43 14.2	16.17c		T08
C/2021 K1	2021 08 07.13340	01 10 05.69	−05 46 54.5	16.5 T		B74
C/2021 K1	2021 08 07.14513	01 10 06.11	−05 47 00.0	16.5 T		B74
C/2021 K1	2021 08 07.15433	01 10 06.42	−05 47 02.7	16.5 T		B74
C/2021 K1	2021 08 08.551203	01 10 50.17	−05 55 56.0	16.00o		T05
C/2021 K1	2021 08 08.554429	01 10 50.29	−05 55 57.6	17.05o		T05
C/2021 K1	2021 08 08.557175	01 10 50.35	−05 55 58.4	16.05o		T05
C/2021 K1	2021 08 08.562252	01 10 50.51	−05 56 00.5	17.10o		T05
C/2021 K1	2021 08 09.20922	01 11 10.00	−06 00 09.9	16.0 T		X03
C/2021 K1	2021 08 09.22705	01 11 10.50	−06 00 17.0	15.9 T	K	X03
C/2021 K1	2021 08 09.24709	01 11 11.08	−06 00 25.0	15.9 T		X03
C/2021 K1	2021 08 10.532259	01 11 47.69	−06 09 03.6	17.29c		T08
C/2021 K1	2021 08 10.534565	01 11 47.74	−06 09 04.3	16.43c		T08
C/2021 K1	2021 08 10.537333	01 11 47.83	−06 09 05.7	17.32c		T08
C/2021 K1	2021 08 10.542422	01 11 47.95	−06 09 07.6	16.55c		T08
C/2021 K1	2021 08 12.533113	01 12 40.26	−06 22 52.0	15.95o		T05
C/2021 K1	2021 08 12.535857	01 12 40.33	−06 22 53.1	15.99o		T05
C/2021 K1	2021 08 12.539060	01 12 40.42	−06 22 54.9	17.01o		T05
C/2021 K1	2021 08 12.547335	01 12 40.59	−06 22 57.9	15.93o		T05
C/2021 K1	2021 08 13.02735	01 12 52.44	−06 26 23.0	15.9 T	K	213
C/2021 K1	2021 08 13.04932	01 12 52.97	−06 26 32.1	15.8 T	K	213
C/2021 K1	2021 08 13.07128	01 12 53.51	−06 26 41.7	15.7 T	K	213
C/2021 K1	2021 08 14.02483	01 13 16.06	−06 33 31.6	16.6 T		29G40
C/2021 K1	2021 08 14.03787	01 13 16.32	−06 33 37.0	16.6 T		29G40
C/2021 K1	2021 08 14.550819	01 13 27.66	−06 37 19.7	16.32c		T08
C/2021 K1	2021 08 14.552663	01 13 27.70	−06 37 20.6	16.15c		T08
C/2021 K1	2021 08 14.555886	01 13 27.75	−06 37 21.8	16.24c		T08
C/2021 K1	2021 08 14.566439	01 13 27.99	−06 37 27.0	17.00c		T08
C/2021 K1	2021 08 15.469889	01 13 47.55	−06 44 05.5	16.00o		T05
C/2021 K1	2021 08 15.478637	01 13 47.74	−06 44 09.4	15.97o		T05
C/2021 K1	2021 08 15.481840	01 13 47.79	−06 44 10.8	15.94o		T05
C/2021 K1	2021 08 15.502416	01 13 48.21	−06 44 20.2	17.10o		T05
C/2021 K1	2021 08 15.71401	01 13 52.34	−06 45 49.6	17.2 T	K	E94
C/2021 K1	2021 08 15.72420	01 13 52.56	−06 45 52.8	17.1 T	K	E94
C/2021 K1	2021 08 15.73438	01 13 52.75	−06 45 59.4	17.2 T	K	E94
C/2021 K1	2021 08 15.74457	01 13 52.89	−06 46 03.9	17.2 T	K	E94
C/2021 K1	2021 08 16.519557	01 14 08.63	−06 51 56.4	16.06o		T05
C/2021 K1	2021 08 16.535063	01 14 08.91	−06 52 03.4	16.05o		T05
C/2021 K1	2021 08 16.538296	01 14 08.96	−06 52 04.9	15.96o		T05
C/2021 K1	2021 08 16.541968	01 14 09.05	−06 52 07.0	17.03o		T05
C/2021 K1	2021 08 18.09261	01 14 37.44	−07 03 57.6	16.0 T		A77
C/2021 K1	2021 08 18.09673	01 14 37.48	−07 03 59.3	16.0 T		A77
C/2021 K1	2021 08 18.10166	01 14 37.59	−07 04 02.5	16.0 T		A77
C/2021 K1	2021 08 18.478886	01 14 44.10	−07 06 55.5	15.96o		T08
C/2021 K1	2021 08 18.488981	01 14 44.25	−07 07 00.4	16.05o		T08
C/2021 K1	2021 08 18.494289	01 14 44.34	−07 07 03.2	17.03o		T08
C/2021 K1	2021 08 18.498065	01 14 44.39	−07 07 04.5	16.04o		T08
C/2021 K1	2021 08 18.70262	01 14 47.71	−07 08 40.6	16.6 T	K	Q21
C/2021 K1	2021 08 18.70786	01 14 47.78	−07 08 43.6	16.8 T	K	Q21
C/2021 K1	2021 08 18.71282	01 14 47.88	−07 08 45.8			349
C/2021 K1	2021 08 18.72449	01 14 48.04	−07 08 51.1	15.1 T		349
C/2021 K1	2021 08 19.05369	01 14 53.42	−07 11 25.4	16.3 T		B74
C/2021 K1	2021 08 19.06962	01 14 53.71	−07 11 33.7	16.3 T		B74
C/2021 K1	2021 08 19.08120	01 14 53.86	−07 11 39.0	16.3 T		B74
C/2021 K1	2021 08 19.493626	01 15 00.34	−07 14 51.6	15.96o		T05
C/2021 K1	2021 08 19.495456	01 15 00.35	−07 14 52.3	15.89o		T05
C/2021 K1	2021 08 19.499122	01 15 00.41	−07 14 54.0	16.01o		T05
C/2021 K1	2021 08 19.505984	01 15 00.52	−07 14 57.4	16.02o		T05
C/2021 K1	2021 08 19.68229	01 15 03.02	−07 16 16.7	17.4 T	K	E94
C/2021 K1	2021 08 19.69239	01 15 03.14	−07 16 21.5	17.5 T	K	E94
C/2021 K1	2021 08 19.70248	01 15 03.29	−07 16 26.4	17.3 T	K	E94
C/2021 K1	2021 08 21.459683	01 15 27.89	−07 30 31.7	16.06o		T08
C/2021 K1	2021 08 21.462907	01 15 27.92	−07 30 33.4	16.92o		T08
C/2021 K1	2021 08 21.465672	01 15 27.94	−07 30 34.8	17.06o		T08
C/2021 K1	2021 08 21.474429	01 15 28.05	−07 30 39.1	17.09o		T08
C/2021 K1	2021 08 22.495613	01 15 40.22	−07 38 56.7	17.07o		T08
C/2021 K1	2021 08 22.499172	01 15 40.25	−07 38 57.4	16.04o		T08
C/2021 K1	2021 08 22.512993	01 15 40.37	−07 39 04.4	16.07o		T08
C/2021 K1	2021 08 28.503706	01 16 23.19	−08 29 26.5	16.03o		T05
C/2021 K1	2021 08 28.505992	01 16 23.20	−08 29 28.1	16.95o		T05
C/2021 K1	2021 08 28.512276	01 16 23.20	−08 29 31.3	17.07o		T05
C/2021 K1	2021 08 28.517332	01 16 23.20	−08 29 33.5	16.08o		T05
C/2021 K1	2021 08 29.67093	01 16 25.91	−08 39 33.4	15.7 T		Q11
C/2021 K1	2021 08 29.68012	01 16 25.92	−08 39 38.4			Q11
C/2021 K1	2021 08 29.68788	01 16 25.93	−08 39 42.4			Q11
C/2021 K1	2021 08 30.492837	01 16 26.810	−08 46 42.36	18.11w		F52
C/2021 K1	2021 08 30.500410	01 16 26.76	−08 46 45.3	15.95o		T08
C/2021 K1	2021 08 30.502253	01 16 26.77	−08 46 46.3	15.92o		T08
C/2021 K1	2021 08 30.505729	01 16 26.795	−08 46 49.20	18.02w		F52
C/2021 K1	2021 08 30.506002	01 16 26.79	−08 46 48.8	17.01o		T08
C/2021 K1	2021 08 30.511069	01 16 26.77	−08 46 51.1	15.99o		T08
C/2021 K1	2021 08 30.518632	01 16 26.779	−08 46 55.84	18.08w		F52
C/2021 K1	2021 08 30.531632	01 16 26.759	−08 47 02.79	17.99w		F52
C/2021 K1	2021 09 01.16660	01 16 25.76	−09 01 21.8	16.7 N		J22
C/2021 K1	2021 09 01.17032	01 16 25.73	−09 01 24.1	16.7 N		J22
C/2021 K1	2021 09 01.17406	01 16 25.70	−09 01 25.9	16.7 N		J22
C/2021 K1	2021 09 03.303227	01 16 19.37	−09 20 13.5			KW33
C/2021 K1	2021 09 03.312026	01 16 19.32	−09 20 18.1			KW33
C/2021 K1	2021 09 03.320825	01 16 19.28	−09 20 22.6			KW33
C/2021 K1	2021 09 03.460434	01 16 18.76	−09 21 35.8	15.99o		T08
C/2021 K1	2021 09 03.464144	01 16 18.71	−09 21 37.8	15.91o		T08
C/2021 K1	2021 09 03.469697	01 16 18.69	−09 21 41.2	16.72o		T08
C/2021 K1	2021 09 03.479849	01 16 18.62	−09 21 46.0	15.78o		T08
C/2021 K1	2021 09 04.497726	01 16 13.30	−09 30 47.8	16.29c		T05
C/2021 K1	2021 09 04.501897	01 16 13.25	−09 30 50.1	16.25c		T05
C/2021 K1	2021 09 04.517044	01 16 13.17	−09 30 58.4	17.21c		T05

C/2021 K1	2021 09 04.520715	01 16 13.15	−09 31 00.4	17.21c		T05
C/2021 K1	2021 09 05.12211	01 16 09.33	−09 36 21.8	16.4	T	B74
C/2021 K1	2021 09 05.13544	01 16 09.24	−09 36 29.2	16.4	T	B74
C/2021 K1	2021 09 05.14832	01 16 09.12	−09 36 36.3	16.4	T	B74
C/2021 K1	2021 09 05.486262	01 16 06.99	−09 39 34.7	17.20c		T05
C/2021 K1	2021 09 05.489047	01 16 06.95	−09 39 35.7	16.20c		T05
C/2021 K1	2021 09 05.498816	01 16 06.87	−09 39 41.4	17.33c		T05
C/2021 K1	2021 09 05.504337	01 16 06.85	−09 39 44.1	17.30c		T05
C/2021 K1	2021 09 07.541800	01 15 49.96	−09 57 49.8	16.08o		T08
C/2021 K1	2021 09 07.542261	01 15 49.97	−09 57 49.8	16.09o		T08
C/2021 K1	2021 09 07.546520	01 15 49.92	−09 57 52.2	16.15o		T08
C/2021 K1	2021 09 07.546981	01 15 49.92	−09 57 52.5	16.01o		T08
C/2021 K1	2021 09 07.571952	01 15 49.62	−09 58 06.1	16.10o		T08
C/2021 K1	2021 09 07.572413	01 15 49.63	−09 58 06.0	15.93o		T08
C/2021 K1	2021 09 07.600556	01 15 49.32	−09 58 21.0	15.98o		T08
C/2021 K1	2021 09 07.601017	01 15 49.31	−09 58 21.3	16.04o		T08
C/2021 K1	2021 09 07.96640	01 15 46.05	−10 01 38.3	16.6	T	C23
C/2021 K1	2021 09 07.97073	01 15 46.01	−10 01 40.7	17.0	T	C23
C/2021 K1	2021 09 07.97506	01 15 45.96	−10 01 42.0	16.0	T	C23
C/2021 K1	2021 09 08.474358	01 15 40.852	−10 06 06.80	18.08w		F52
C/2021 K1	2021 09 08.500126	01 15 40.538	−10 06 20.53	17.93w		F52
C/2021 K1	2021 09 08.513031	01 15 40.378	−10 06 27.43	17.80w		F52
C/2021 K1	2021 09 09.02609	01 15 34.99	−10 10 59.8	16.6	N	J22
C/2021 K1	2021 09 09.02990	01 15 34.98	−10 11 02.5	16.6	N	J22
C/2021 K1	2021 09 09.03377	01 15 34.93	−10 11 03.8	16.6	N	J22
C/2021 K1	2021 09 09.643911	01 15 27.86	−10 16 28.1	17.7	N	900
C/2021 K1	2021 09 09.652315	01 15 27.75	−10 16 32.7	17.6	N	900
C/2021 K1	2021 09 10.93957	01 15 11.71	−10 27 55.1	16.7	T	L79
C/2021 K1	2021 09 10.94233	01 15 11.70	−10 27 56.9	16.7	T	L79
C/2021 K1	2021 09 10.94486	01 15 11.69	−10 27 57.3	16.5	T	L79
C/2021 K1	2021 09 11.01034	01 15 10.85	−10 28 31.5	16.4	N	J59
C/2021 K1	2021 09 11.01730	01 15 10.73	−10 28 35.1	16.4	N	J59
C/2021 K1	2021 09 11.02377	01 15 10.49	−10 28 39.4	17.0	T	A98
C/2021 K1	2021 09 11.02663	01 15 10.49	−10 28 40.8	17.1	T	A98
C/2021 K1	2021 09 11.02777	01 15 10.58	−10 28 41.0	16.4	N	J59
C/2021 K1	2021 09 11.02806	01 15 10.49	−10 28 42.0	16.9	T	A98
C/2021 K1	2021 09 11.02949	01 15 10.44	−10 28 42.2	16.6	T	A98
C/2021 K1	2021 09 11.03092	01 15 10.42	−10 28 43.5	16.9	T	A98
C/2021 K1	2021 09 11.03235	01 15 10.37	−10 28 43.4	16.6	T	A98
C/2021 K1	2021 09 11.03378	01 15 10.38	−10 28 44.0	16.4	T	A98
C/2021 K1	2021 09 11.03521	01 15 10.35	−10 28 45.6	16.7	T	A98
C/2021 K1	2021 09 13.321153	01 14 37.64	−10 48 42.3	16.24G		G96
C/2021 K1	2021 09 13.325962	01 14 37.56	−10 48 44.9	16.23G		G96
C/2021 K1	2021 09 13.335608	01 14 37.39	−10 48 50.0	16.27G		G96
C/2021 K1	2021 09 17.469802	01 13 25.41	−11 24 07.9	17.33o		T05
C/2021 K1	2021 09 17.473004	01 13 25.38	−11 24 10.1	16.06o		T05
C/2021 K1	2021 09 17.475766	01 13 25.32	−11 24 11.4	16.03o		T05
C/2021 K1	2021 09 17.498902	01 13 24.83	−11 24 23.1	15.87o		T05

C/2021 K2 (MASTER)

C/2021 K2	2021 08 07.344422	18 51 59.46	−46 29 12.2	18.61o		T05
C/2021 K2	2021 08 07.347627	18 51 59.21	−46 29 10.0	18.52o		T05
C/2021 K2	2021 08 07.349914	18 51 59.09	−46 29 09.0	19.03o		T05
C/2021 K2	2021 08 07.353117	18 51 58.78	−46 29 07.8	18.81o		T05
C/2021 K2	2021 08 07.353575	18 51 58.85	−46 29 07.1	18.91o		T05
C/2021 K2	2021 08 07.364111	18 51 57.96	−46 29 01.4	18.35o		T05
C/2021 K2	2021 08 19.38048	18 39 13.57	−44 32 11.5	18.4	T K	E94
C/2021 K2	2021 08 19.39056	18 39 12.96	−44 32 05.9	18.4	T K	E94
C/2021 K2	2021 08 19.40065	18 39 12.47	−44 31 59.8	18.5	T K	E94
C/2021 K2	2021 08 19.41073	18 39 11.86	−44 31 53.7	18.4	T K	E94
C/2021 K2	2021 08 26.39058	18 33 22.28	−43 20 56.0	17.6	T K	E94
C/2021 K2	2021 08 26.40066	18 33 21.77	−43 20 49.1	17.7	T K	E94
C/2021 K2	2021 08 26.41073	18 33 21.34	−43 20 44.1	17.7	T K	E94

C/2021 K3 (Catalina)

C/2021 K3	2021 08 05.450458	20 20 08.871	−02 58 36.19	21.0	T	29 568
C/2021 K3	2021 08 05.452366	20 20 08.750	−02 58 37.57	21.0	T	29 568
C/2021 K3	2021 08 11.30732	20 13 35.034	−03 59 12.98	21.0	w	F51
C/2021 K3	2021 08 11.31606	20 13 34.438	−03 59 18.16	20.9	w	F51
C/2021 K3	2021 08 11.31802	20 13 34.300	−03 59 19.39	21.2	w	F51
C/2021 K3	2021 08 11.32651	20 13 33.735	−03 59 24.80	21.1	w	F51
C/2021 K3	2021 08 11.32846	20 13 33.607	−03 59 26.09	21.2	w	F51
C/2021 K3	2021 08 11.33697	20 13 33.025	−03 59 31.48	21.1	w	F51
C/2021 K3	2021 08 11.33893	20 13 32.890	−03 59 32.64	21.1	w	F51

P/2021 L2 (Leonard)

P/2021 L2	2021 08 09.17133	21 23 59.11	+21 48 02.7	18.7	T K	X03
P/2021 L2	2021 08 09.17467	21 23 58.96	+21 48 04.5	18.7	T K	X03
P/2021 L2	2021 08 09.19360	21 23 58.08	+21 48 15.3	18.3	T K	X03
P/2021 L2	2021 08 09.397209	21 23 49.64	+21 50 11.4	19.12o		T05
P/2021 L2	2021 08 09.399496	21 23 49.54	+21 50 12.4	19.34o		T05
P/2021 L2	2021 08 09.404188	21 23 49.23	+21 50 13.9	19.22o		T05
P/2021 L2	2021 08 09.437236	21 23 47.73	+21 50 34.2	19.03o		T05
P/2021 L2	2021 08 11.88388	21 22 03.56	+22 12 55.2	19.3	T	A71
P/2021 L2	2021 08 11.88831	21 22 03.36	+22 12 57.0	19.2	T	A71
P/2021 L2	2021 08 11.89322	21 22 03.14	+22 12 59.7	19.1	T	A71
P/2021 L2	2021 08 11.90352	21 22 02.86	+22 13 03.0	18.9	T	A71
P/2021 L2	2021 09 06.234537	21 07 39.29	+23 15 02.7	19.08G		G96
P/2021 L2	2021 09 06.240299	21 07 39.16	+23 15 01.8	19.15G		G96
P/2021 L2	2021 09 06.246061	21 07 39.03	+23 15 00.8	19.24G		G96
P/2021 L2	2021 09 06.251820	21 07 38.91	+23 14 59.9	19.31G		G96
P/2021 L2	2021 09 09.443244	21 06 50.708	+23 04 05.01	20.06w		F52
P/2021 L2	2021 09 09.466275	21 06 50.366	+23 03 59.32	20.05w		F52
P/2021 L2	2021 09 09.477818	21 06 50.193	+23 03 56.43	20.14w		F52

C/2021 L3 (Borisov)

C/2021 L3	2021 08 07.87297	20 18 22.05	+77 55 16.1	19.7	N K	157
C/2021 L3	2021 08 07.88381	20 18 20.02	+77 55 17.5	19.5	N K	157
C/2021 L3	2021 08 07.89303	20 18 18.57	+77 55 17.7	19.3	N K	157
C/2021 L3	2021 08 27.77565	19 25 59.30	+77 37 26.5	19.8	T	L51
C/2021 L3	2021 08 27.78638	19 25 57.75	+77 37 22.9	19.7	T	L51
C/2021 L3	2021 08 27.79711	19 25 56.51	+77 37 19.3	19.8	T	L51
C/2021 L3	2021 09 09.92004	18 58 58.62	+76 48 53.8	19.2	T K	B18
C/2021 L3	2021 09 09.92285	18 58 58.39	+76 48 53.3	19.2	T K	B18
C/2021 L3	2021 09 09.92566	18 58 58.02	+76 48 52.6	19.3	T K	B18
C/2021 L3	2021 09 09.92847	18 58 57.73	+76 48 51.7	19.0	T K	B18
C/2021 L3	2021 09 09.93128	18 58 57.45	+76 48 50.4	19.2	T K	B18

C/2021 L3	2021 09 09.93409	18 58 57.14	+76 48 50.0	19.0 T	K	B18
C/2021 L3	2021 09 09.93690	18 58 57.00	+76 48 48.8	19.1 T	K	B18

P/2021 L4 (PANSTARRS)

P/2021 L4	2021 09 02.00130	15 45 49.58	−16 20 55.4			21 309
P/2021 L4	2021 09 02.01818	15 45 50.43	−16 20 56.4			21 309
P/2021 L4	2021 09 02.03534	15 45 51.26	−16 20 57.5			21 309

P/2021 N2 (Fuls)

P/2021 N2	2021 08 05.604576	02 20 25.05	+18 36 30.2	17.52o		T05
P/2021 N2	2021 08 05.607319	02 20 25.14	+18 36 30.3	17.93o		T05
P/2021 N2	2021 08 05.610284	02 20 25.25	+18 36 30.8	17.90o		T05
P/2021 N2	2021 08 05.622646	02 20 25.63	+18 36 32.1	17.66o		T05
P/2021 N2	2021 08 07.583104	02 21 31.81	+18 39 35.4	17.98c		T08
P/2021 N2	2021 08 07.585866	02 21 31.91	+18 39 36.3	18.20c		T08
P/2021 N2	2021 08 07.592089	02 21 32.12	+18 39 36.7	18.20c		T08
P/2021 N2	2021 08 07.612462	02 21 32.76	+18 39 38.4	18.20c		T08
P/2021 N2	2021 08 09.06515	02 22 19.84	+18 41 40.9	17.8 T	K	213
P/2021 N2	2021 08 09.10490	02 22 21.08	+18 41 44.4	17.6 T	K	213
P/2021 N2	2021 08 09.14464	02 22 22.31	+18 41 47.6	17.4 T	K	213
P/2021 N2	2021 08 09.583503	02 22 36.19	+18 42 23.5	17.92o		T05
P/2021 N2	2021 08 09.586715	02 22 36.28	+18 42 23.7	17.56o		T05
P/2021 N2	2021 08 09.589984	02 22 36.37	+18 42 23.9	17.53o		T05
P/2021 N2	2021 08 09.595483	02 22 36.54	+18 42 24.4	17.49o		T05
P/2021 N2	2021 08 11.07821	02 23 22.17	+18 44 14.7	17.2 T		A77
P/2021 N2	2021 08 11.08574	02 23 22.42	+18 44 15.5	17.6 T		A77
P/2021 N2	2021 08 11.09477	02 23 22.68	+18 44 16.4	17.7 T		A77
P/2021 N2	2021 08 11.597586	02 23 37.67	+18 44 51.8	17.87c		T08
P/2021 N2	2021 08 11.599583	02 23 37.75	+18 44 52.0	18.08c		T08
P/2021 N2	2021 08 11.605146	02 23 37.90	+18 44 52.3	17.95c		T08
P/2021 N2	2021 08 11.612688	02 23 38.11	+18 44 53.0	17.97c		T08
P/2021 N2	2021 08 12.98367	02 24 18.13	+18 46 20.2	17.7 T	K	A71
P/2021 N2	2021 08 12.98738	02 24 18.23	+18 46 20.4	17.8 T	K	A71
P/2021 N2	2021 08 12.99109	02 24 18.34	+18 46 20.5	17.7 T	K	A71
P/2021 N2	2021 08 15.573316	02 25 29.20	+18 48 42.4	17.89c		T08
P/2021 N2	2021 08 15.575646	02 25 29.28	+18 48 42.4	17.80c		T08
P/2021 N2	2021 08 15.580731	02 25 29.43	+18 48 42.8	17.82c		T08
P/2021 N2	2021 08 15.586216	02 25 29.55	+18 48 43.1	17.78c		T08
P/2021 N2	2021 08 17.551618	02 26 19.77	+18 50 05.9	17.58o		T05
P/2021 N2	2021 08 17.572116	02 26 20.25	+18 50 06.8	17.72o		T05
P/2021 N2	2021 08 17.575318	02 26 20.33	+18 50 06.8	17.66o		T05
P/2021 N2	2021 08 17.581214	02 26 20.44	+18 50 07.2	17.71o		T05
P/2021 N2	2021 08 18.10290	02 26 33.21	+18 50 24.4	16.7 T		A77
P/2021 N2	2021 08 18.10700	02 26 33.29	+18 50 24.4	16.6 T		A77
P/2021 N2	2021 08 18.11194	02 26 33.41	+18 50 24.6	16.6 T		A77
P/2021 N2	2021 08 19.505877	02 27 06.31	+18 51 07.5	17.76o		T08
P/2021 N2	2021 08 19.529224	02 27 06.83	+18 51 08.1	17.47o		T08
P/2021 N2	2021 08 19.532448	02 27 06.90	+18 51 08.2	17.72o		T08
P/2021 N2	2021 08 19.538279	02 27 07.03	+18 51 08.5	17.46o		T08
P/2021 N2	2021 08 21.521255	02 27 50.71	+18 51 49.0	17.34o		T05
P/2021 N2	2021 08 21.524455	02 27 50.76	+18 51 49.3	17.13o		T05
P/2021 N2	2021 08 21.531480	02 27 50.96	+18 51 49.5	17.61o		T05
P/2021 N2	2021 08 21.536591	02 27 51.02	+18 51 49.4	17.43o		T05
P/2021 N2	2021 08 25.556875	02 29 08.56	+18 52 04.5	17.48o		T05
P/2021 N2	2021 08 25.558717	02 29 08.58	+18 52 04.6	17.53o		T05
P/2021 N2	2021 08 25.561917	02 29 08.62	+18 52 04.7	16.93o		T05
P/2021 N2	2021 08 25.587489	02 29 09.05	+18 52 04.1	17.43o		T05
P/2021 N2	2021 08 31.540198	02 30 35.88	+18 49 34.1	17.14o		T08
P/2021 N2	2021 08 31.543052	02 30 35.90	+18 49 34.0	17.16o		T08
P/2021 N2	2021 08 31.546270	02 30 35.95	+18 49 34.0	17.42o		T08
P/2021 N2	2021 08 31.575957	02 30 36.20	+18 49 31.3	17.42o		T08
P/2021 N2	2021 08 31.576804	02 30 36.25	+18 49 32.6	17.41o		T08
P/2021 N2	2021 09 01.10633	02 30 42.33	+18 49 07.3	17.3 T	K	I81
P/2021 N2	2021 09 01.10845	02 30 42.35	+18 49 07.2	17.2 T	K	I81
P/2021 N2	2021 09 01.11056	02 30 42.38	+18 49 07.1	17.2 T	K	I81
P/2021 N2	2021 09 03.96778	02 31 10.25	+18 46 30.0	17.3 T		K77
P/2021 N2	2021 09 03.98304	02 31 10.37	+18 46 28.9	17.4 T		K77
P/2021 N2	2021 09 04.50978	02 31 14.686	+18 45 56.53	17.9 w		F52
P/2021 N2	2021 09 04.52321	02 31 14.783	+18 45 55.66	17.9 w		F52
P/2021 N2	2021 09 04.531780	02 31 14.79	+18 45 54.9	17.23o		T08
P/2021 N2	2021 09 04.534082	02 31 14.81	+18 45 54.9	17.05o		T08
P/2021 N2	2021 09 04.53669	02 31 14.872	+18 45 54.81	18.0 w		F52
P/2021 N2	2021 09 04.544507	02 31 14.89	+18 45 54.1	19.09o		T08
P/2021 N2	2021 09 04.549743	02 31 14.93	+18 45 53.9	17.40o		T08
P/2021 N2	2021 09 05.16133	02 31 19.43	+18 45 10.8	17.3 T		B74
P/2021 N2	2021 09 05.17053	02 31 19.44	+18 45 10.8	17.3 T		B74
P/2021 N2	2021 09 05.18067	02 31 19.58	+18 45 09.1	17.3 T		B74
P/2021 N2	2021 09 07.97896	02 31 35.80	+18 41 25.3	16.9 T	K	970
P/2021 N2	2021 09 07.98315	02 31 35.83	+18 41 25.2	17.2 T	K	970
P/2021 N2	2021 09 08.90991	02 31 39.37	+18 40 00.8	17.3 T		K77
P/2021 N2	2021 09 08.95581	02 31 39.52	+18 39 55.8	17.5 T		K77
P/2021 N2	2021 09 10.477839	02 31 43.59	+18 37 26.3	17.32c		T05
P/2021 N2	2021 09 10.479668	02 31 43.59	+18 37 26.1	17.36c		T05
P/2021 N2	2021 09 10.484728	02 31 43.61	+18 37 25.9	17.61c		T05
P/2021 N2	2021 09 10.489772	02 31 43.60	+18 37 25.0	17.46c		T05
P/2021 N2	2021 09 10.85126	02 31 44.30	+18 36 46.4	17.3 T		A98
P/2021 N2	2021 09 10.85411	02 31 44.30	+18 36 44.8	17.6 T		A98
P/2021 N2	2021 09 10.85984	02 31 44.27	+18 36 43.7	17.3 T		A98
P/2021 N2	2021 09 10.86269	02 31 44.25	+18 36 43.6	17.2 T		A98
P/2021 N2	2021 09 10.87129	02 31 44.23	+18 36 42.6	16.9 T		A98
P/2021 N2	2021 09 10.87273	02 31 44.27	+18 36 42.6	16.8 T		A98
P/2021 N2	2021 09 10.88273	02 31 44.22	+18 36 41.9	17.0 T		A98
P/2021 N2	2021 09 11.455267	02 31 45.023	+18 35 41.74	17.91w		F51
P/2021 N2	2021 09 11.467553	02 31 45.024	+18 35 40.42	17.90w		F51
P/2021 N2	2021 09 11.479839	02 31 45.024	+18 35 39.10	17.88w		F51
P/2021 N2	2021 09 12.492153	02 31 45.36	+18 33 44.3	16.85o		T08
P/2021 N2	2021 09 12.494458	02 31 45.35	+18 33 43.7	16.85o		T08
P/2021 N2	2021 09 12.497687	02 31 45.36	+18 33 43.5	17.14o		T08
P/2021 N2	2021 09 12.507635	02 31 45.33	+18 33 42.2	17.06o		T08
P/2021 N2	2021 09 16.05515	02 31 38.83	+18 26 07.6	17.2 T	K	970
P/2021 N2	2021 09 16.05931	02 31 38.82	+18 26 07.0	16.9 T	K	970
P/2021 N2	2021 09 18.962503	02 31 24.48	+18 18 57.1	17.0 T	K	G33
P/2021 N2	2021 09 18.964887	02 31 24.44	+18 18 56.8	17.0 T	K	G33
P/2021 N2	2021 09 18.967155	02 31 24.42	+18 18 56.8	17.1 T	K	G33
P/2021 N2	2021 09 18.969342	02 31 24.43	+18 18 56.3	17.2 T	K	G33
P/2021 N2	2021 09 18.971822	02 31 24.40	+18 18 56.1	17.1 T	K	G33
P/2021 N2	2021 09 18.974153	02 31 24.37	+18 18 55.4	17.2 T	K	G33

C/2021 N3 (PANSTARRS)

C/2021 N3	2021 08 05.479678	21 40 43.989	−26 02 42.66	21.1	T		29 568
C/2021 N3	2021 08 05.481580	21 40 43.935	−26 02 42.61	21.0	T		29 568
C/2021 N3	2021 08 06.31346	21 40 20.50	−26 02 24.4	18.1	T	K	X03
C/2021 N3	2021 08 06.31902	21 40 20.99	−26 02 18.7	18.7	T	K	X03
C/2021 N3	2021 08 06.32682	21 40 20.49	−26 02 24.4	17.9	T	K	X03
C/2021 N3	2021 08 09.407992	21 38 56.104	−26 00 44.09	20.83w			F51
C/2021 N3	2021 08 09.419700	21 38 55.773	−26 00 43.64	20.78w			F51
C/2021 N3	2021 08 09.431376	21 38 55.445	−26 00 43.06	20.90w			F51
C/2021 N3	2021 08 11.96009	21 37 45.46	−25 59 09.3	19.9	T	K	215
C/2021 N3	2021 08 11.96267	21 37 45.40	−25 59 09.1	19.9	T	K	215
C/2021 N3	2021 08 11.96525	21 37 45.31	−25 59 09.1			K	215
C/2021 N3	2021 08 31.329800	21 29 11.238	−25 37 38.27	20.84w			F52
C/2021 N3	2021 08 31.338742	21 29 11.008	−25 37 37.18	20.94w			F52
C/2021 N3	2021 08 31.347674	21 29 10.789	−25 37 36.58	20.81w			F52
C/2021 N3	2021 08 31.356620	21 29 10.566	−25 37 35.67	20.80w			F52
C/2021 N3	2021 09 07.350182	21 26 28.959	−25 25 21.95	20.76w			F52
C/2021 N3	2021 09 07.359096	21 26 28.742	−25 25 20.79	20.83w			F52
C/2021 N3	2021 09 07.368006	21 26 28.571	−25 25 19.96	20.60w			F52
C/2021 N3	2021 09 07.376920	21 26 28.329	−25 25 18.70	20.85w			F52
C/2021 N3	2021 09 10.418903	21 25 24.332	−25 19 13.26	21.7	T		29 568
C/2021 N3	2021 09 10.420807	21 25 24.289	−25 19 13.10	21.8	T		29 568
C/2021 N3	2021 09 11.340657	21 25 05.879	−25 17 17.26	20.81w			F52
C/2021 N3	2021 09 11.361172	21 25 05.443	−25 17 14.77	20.93w			F52
C/2021 N3	2021 09 11.371442	21 25 05.202	−25 17 13.32	20.81w			F52

C/2021 O1 (Nishimura)

C/2021 O1	2021 08 05.78328	08 10 26.61	+31 04 10.2				349
C/2021 O1	2021 08 05.78481	08 10 27.21	+31 04 09.0	11.5	T		349

C/2021 O3 (PANSTARRS)

C/2021 O3	2021 08 02.03516	23 23 59.45	+28 00 01.0	19.8	T		01 L81
C/2021 O3	2021 08 02.05458	23 23 58.80	+28 00 02.6				01 L81
C/2021 O3	2021 08 06.09834	23 21 35.90	+28 04 25.6	19.1	T		02 G40
C/2021 O3	2021 08 06.11525	23 21 35.22	+28 04 26.6	19.3	T		02 G40
C/2021 O3	2021 08 07.539564	23 20 40.274	+28 05 20.31	20.9	T		29 568
C/2021 O3	2021 08 07.541827	23 20 40.181	+28 05 20.40	20.0	T		29 568
C/2021 O3	2021 08 07.544090	23 20 40.092	+28 05 20.45	20.5	T		29 568
C/2021 O3	2021 08 07.546389	23 20 39.998	+28 05 20.50	20.9	T		29 568
C/2021 O3	2021 08 08.02977	23 20 20.84	+28 05 32.3	18.7	N	K	157
C/2021 O3	2021 08 08.04061	23 20 20.41	+28 05 32.6	18.7	N	K	157
C/2021 O3	2021 08 08.05145	23 20 19.98	+28 05 32.9	18.9	N	K	157
C/2021 O3	2021 08 08.96881	23 19 42.87	+28 05 49.8	19.2	T		K77
C/2021 O3	2021 08 08.97940	23 19 42.43	+28 05 50.2	19.4	T		K77
C/2021 O3	2021 08 09.121221	23 19 36.60	+28 05 51.9	19.4	T		KW62
C/2021 O3	2021 08 09.130492	23 19 36.20	+28 05 51.6	19.5	T		KW62
C/2021 O3	2021 08 09.140365	23 19 35.81	+28 05 51.7	19.6	T		KW62
C/2021 O3	2021 08 09.493425	23 19 21.07	+28 05 57.2	19.18o			T05
C/2021 O3	2021 08 09.495254	23 19 21.05	+28 05 56.8	19.26o			T05
C/2021 O3	2021 08 09.499387	23 19 20.85	+28 05 57.0	19.31o			T05
C/2021 O3	2021 08 09.534458	23 19 19.34	+28 05 56.8	19.28o			T05
C/2021 O3	2021 08 09.92119	23 19 03.21	+28 05 57.2	19.2	T	K	G02
C/2021 O3	2021 08 09.92747	23 19 02.98	+28 05 55.9	19.5	T	K	G02
C/2021 O3	2021 08 09.93480	23 19 02.62	+28 05 55.6	19.4	T	K	G02
C/2021 O3	2021 08 10.54995	23 18 36.54	+28 05 58.8	18.2	T	K	Q21
C/2021 O3	2021 08 10.56046	23 18 36.11	+28 05 58.3	18.7	T	K	Q21
C/2021 O3	2021 08 12.92502	23 16 51.59	+28 05 13.3	19.2	T		A71
C/2021 O3	2021 08 12.92807	23 16 51.42	+28 05 13.1	19.1	T		A71
C/2021 O3	2021 08 12.93131	23 16 51.25	+28 05 13.3	19.1	T		A71
C/2021 O3	2021 08 12.93575	23 16 51.06	+28 05 12.9	19.4	T		A71
C/2021 O3	2021 08 14.87471	23 15 20.53	+28 03 45.6	19.1	T		K77
C/2021 O3	2021 08 14.90647	23 15 19.04	+28 03 44.4	19.5	T		K77
C/2021 O3	2021 08 17.490482	23 13 11.88	+28 00 33.3	19.09o			T05
C/2021 O3	2021 08 17.521266	23 13 10.25	+28 00 30.2	18.55o			T05
C/2021 O3	2021 08 17.524478	23 13 10.06	+28 00 30.3	19.01o			T05
C/2021 O3	2021 08 17.530981	23 13 09.71	+28 00 28.9	19.26o			T05
C/2021 O3	2021 08 21.415635	23 09 45.346	+27 52 47.81	19.76i			F52
C/2021 O3	2021 08 21.418858	23 09 45.156	+27 52 47.25	19.16i			F52
C/2021 O3	2021 08 21.426625	23 09 44.726	+27 52 46.31	19.96i			F52
C/2021 O3	2021 08 21.429838	23 09 44.538	+27 52 45.77	19.20i			F52
C/2021 O3	2021 08 21.437553	23 09 44.121	+27 52 44.68	20.28i			F52
C/2021 O3	2021 08 21.440767	23 09 43.940	+27 52 44.23	19.18i			F52
C/2021 O3	2021 08 21.448547	23 09 43.506	+27 52 43.13	19.90i			F52
C/2021 O3	2021 08 21.451766	23 09 43.326	+27 52 42.61	19.12i			F52
C/2021 O3	2021 08 25.483231	23 05 54.87	+27 40 51.1	18.76o			T05
C/2021 O3	2021 08 25.486475	23 05 54.66	+27 40 51.0	18.79o			T05
C/2021 O3	2021 08 25.487909	23 05 54.59	+27 40 49.8	18.75o			T05
C/2021 O3	2021 08 25.507255	23 05 53.43	+27 40 47.0	18.54o			T05
C/2021 O3	2021 08 27.379234	23 04 02.24	+27 33 51.7	18.70G			703
C/2021 O3	2021 08 27.384807	23 04 01.83	+27 33 50.6	18.96G			703
C/2021 O3	2021 08 27.395951	23 04 01.20	+27 33 47.4	18.71G			703
C/2021 O3	2021 08 27.61918	23 03 47.77	+27 32 54.4	18.5	T	K	Q11
C/2021 O3	2021 08 27.62484	23 03 47.43	+27 32 53.0			K	Q11
C/2021 O3	2021 08 27.63084	23 03 47.06	+27 32 51.5			K	Q11
C/2021 O3	2021 08 28.900897	23 02 29.66	+27 27 33.3	18.9	T		B74
C/2021 O3	2021 08 28.912402	23 02 28.93	+27 27 30.1	18.8	T		B74
C/2021 O3	2021 08 28.921244	23 02 28.37	+27 27 27.9	18.8	T		B74
C/2021 O3	2021 08 29.242740	23 02 08.56	+27 26 03.8	19.63g			I41
C/2021 O3	2021 08 29.283700	23 02 05.97	+27 25 53.0	19.02r			I41
C/2021 O3	2021 08 29.289650	23 02 05.60	+27 25 51.4	19.00r			I41
C/2021 O3	2021 08 29.330230	23 02 03.04	+27 25 40.5	19.53g			I41
C/2021 O3	2021 08 29.357380	23 02 01.34	+27 25 33.3	19.50g			I41
C/2021 O3	2021 08 29.402339	23 01 58.64	+27 25 21.8	18.62o			T05
C/2021 O3	2021 08 29.405539	23 01 58.43	+27 25 20.9	18.50o			T05
C/2021 O3	2021 08 29.408739	23 01 58.20	+27 25 20.1	18.94o			T05
C/2021 O3	2021 08 29.415203	23 01 57.79	+27 25 18.6	18.66o			T05
C/2021 O3	2021 08 29.85945	23 01 30.26	+27 23 16.6	18.4	N	K	157
C/2021 O3	2021 08 29.87030	23 01 29.58	+27 23 13.5	18.2	N	K	157
C/2021 O3	2021 08 29.88115	23 01 28.90	+27 23 10.3	18.5	N	K	157
C/2021 O3	2021 08 29.89201	23 01 28.18	+27 23 07.5	18.2	N	K	157
C/2021 O3	2021 08 30.15213	23 01 11.72	+27 21 55.4	18.4	T		Z17
C/2021 O3	2021 08 30.15925	23 01 11.34	+27 21 54.0	18.1	T		Z17
C/2021 O3	2021 08 30.17550	23 01 10.32	+27 21 49.1	18.5	T		Z17
C/2021 O3	2021 08 30.18261	23 01 09.87	+27 21 47.3	18.5	T		Z17
C/2021 O3	2021 08 30.65727	23 00 40.15	+27 19 31.9			K	Q11
C/2021 O3	2021 08 30.66292	23 00 39.78	+27 19 30.3			K	Q11
C/2021 O3	2021 08 30.66894	23 00 39.41	+27 19 28.6	18.4	T	K	Q11

C/2021 O3	2021 08 30.92768	23 00 23.23	+27 18 13.1	18.7 T	K	Z10
C/2021 O3	2021 08 30.93301	23 00 22.85	+27 18 10.3	18.7 T	K	Z10
C/2021 O3	2021 08 30.93985	23 00 22.39	+27 18 09.1	18.6 T	K	Z10
C/2021 O3	2021 08 31.481622	22 59 47.95	+27 15 29.0	18.52o		T08
C/2021 O3	2021 08 31.484851	22 59 47.76	+27 15 27.9	18.47o		T08
C/2021 O3	2021 08 31.512188	22 59 45.99	+27 15 19.7	18.77o		T08
C/2021 O3	2021 08 31.518921	22 59 45.53	+27 15 17.4	18.80o		T08
C/2021 O3	2021 08 31.99569	22 59 15.24	+27 12 49.5	18.7 T	K	I81
C/2021 O3	2021 08 31.99782	22 59 15.09	+27 12 48.8	18.7 T	K	I81
C/2021 O3	2021 08 31.99995	22 59 14.95	+27 12 48.0	18.6 T	K	I81
C/2021 O3	2021 09 03.237743	22 56 50.13	+27 00 31.6			01 658
C/2021 O3	2021 09 03.242211	22 56 49.85	+27 00 30.0			01 658
C/2021 O3	2021 09 03.245556	22 56 49.63	+27 00 28.8			01 658
C/2021 O3	2021 09 03.248912	22 56 49.40	+27 00 27.6			01 658
C/2021 O3	2021 09 03.252257	22 56 49.18	+27 00 26.4			01 658
C/2021 O3	2021 09 03.468880	22 56 34.851	+26 59 12.14	19.4 T		29 568
C/2021 O3	2021 09 03.470090	22 56 34.769	+26 59 11.70	19.5 T		29 568
C/2021 O3	2021 09 03.471302	22 56 34.688	+26 59 11.28	19.7 T		29 568
C/2021 O3	2021 09 03.472514	22 56 34.609	+26 59 10.87	19.6 T		29 568
C/2021 O3	2021 09 04.396327	22 55 33.76	+26 53 37.9	18.50o		T08
C/2021 O3	2021 09 04.398170	22 55 33.64	+26 53 37.2	18.68o		T08
C/2021 O3	2021 09 04.433346	22 55 31.24	+26 53 24.4	18.67o		T08
C/2021 O3	2021 09 05.00376	22 54 53.36	+26 49 50.0	18.1 T	K	970
C/2021 O3	2021 09 05.01196	22 54 52.83	+26 49 46.8	18.6 T	K	970
C/2021 O3	2021 09 05.90322	22 53 53.34	+26 44 03.1	18.1 T		K77
C/2021 O3	2021 09 05.91734	22 53 52.38	+26 43 57.4	18.3 T		K77
C/2021 O3	2021 09 05.92982	22 53 51.50	+26 43 51.8	17.5 T		B96
C/2021 O3	2021 09 05.93475	22 53 51.11	+26 43 50.6	17.7 T		B96
C/2021 O3	2021 09 05.93968	22 53 50.65	+26 43 48.2	17.9 T		B96
C/2021 O3	2021 09 06.286533	22 53 27.52	+26 41 30.6	18.65G		703
C/2021 O3	2021 09 06.292197	22 53 27.14	+26 41 29.5	18.43G		703
C/2021 O3	2021 09 06.297856	22 53 26.72	+26 41 26.4	18.65G		703
C/2021 O3	2021 09 06.303524	22 53 26.35	+26 41 24.2	18.37G		703
C/2021 O3	2021 09 06.312892	22 53 25.72	+26 41 21.0	18.52G		G96
C/2021 O3	2021 09 06.320612	22 53 25.19	+26 41 17.9	18.41G		G96
C/2021 O3	2021 09 06.325802	22 53 24.84	+26 41 16.0	18.40G		G96
C/2021 O3	2021 09 06.330106	22 53 24.54	+26 41 14.1	18.36G		G96
C/2021 O3	2021 09 06.98881	22 52 40.12	+26 36 44.9	18.1 T	K	I81
C/2021 O3	2021 09 06.99102	22 52 39.97	+26 36 44.0	18.4 T	K	I81
C/2021 O3	2021 09 06.99323	22 52 39.82	+26 36 43.2	18.9 T	K	I81
C/2021 O3	2021 09 07.20315	22 52 25.72	+26 35 17.5			83H06
C/2021 O3	2021 09 07.20750	22 52 25.42	+26 35 15.9	18.2 T		83H06
C/2021 O3	2021 09 07.96015	22 51 34.22	+26 29 57.1	18.5 T	K	970
C/2021 O3	2021 09 07.96434	22 51 33.91	+26 29 55.3	19.1 T	K	970
C/2021 O3	2021 09 08.00251	22 51 31.24	+26 29 38.5	18.4 T	K	C23
C/2021 O3	2021 09 08.00623	22 51 31.03	+26 29 37.1	18.3 T	K	C23
C/2021 O3	2021 09 08.01062	22 51 30.72	+26 29 34.8	18.1 T	K	C23
C/2021 O3	2021 09 08.03362	22 51 29.18	+26 29 25.3	18.5 T	K	I81
C/2021 O3	2021 09 08.03573	22 51 29.03	+26 29 24.4	18.5 T	K	I81
C/2021 O3	2021 09 08.03784	22 51 28.89	+26 29 23.5	18.4 T	K	I81
C/2021 O3	2021 09 08.476636	22 50 58.92	+26 26 14.8	18.40o		T08
C/2021 O3	2021 09 08.480728	22 50 58.60	+26 26 12.9	18.53o		T08
C/2021 O3	2021 09 08.504913	22 50 56.93	+26 26 02.0	18.50o		T08
C/2021 O3	2021 09 08.512504	22 50 56.40	+26 25 58.9	17.98o		T08
C/2021 O3	2021 09 10.00065	22 49 14.30	+26 14 45.4	18.0 T		A98
C/2021 O3	2021 09 10.00490	22 49 13.94	+26 14 43.2	17.8 T		A98
C/2021 O3	2021 09 10.00915	22 49 13.70	+26 14 41.1	17.8 T		A98
C/2021 O3	2021 09 10.01764	22 49 13.03	+26 14 37.3	18.1 T		A98
C/2021 O3	2021 09 10.02189	22 49 12.72	+26 14 36.0	17.9 T		A98
C/2021 O3	2021 09 10.260818	22 48 56.43	+26 12 45.9	18.49G		703
C/2021 O3	2021 09 10.266072	22 48 56.05	+26 12 43.8	18.42G		703
C/2021 O3	2021 09 10.271331	22 48 55.68	+26 12 40.9	18.48G		703
C/2021 O3	2021 09 10.276593	22 48 55.32	+26 12 38.6	18.31G		703
C/2021 O3	2021 09 10.361684	22 48 49.57	+26 11 59.2	18.29c		T05
C/2021 O3	2021 09 10.363969	22 48 49.40	+26 11 58.3	18.63c		T05
C/2021 O3	2021 09 10.366713	22 48 49.22	+26 11 57.1	18.58c		T05
C/2021 O3	2021 09 10.372038	22 48 48.85	+26 11 54.0	18.82c		T05
C/2021 O3	2021 09 11.84157	22 47 07.08	+26 00 03.1			K 204
C/2021 O3	2021 09 11.90864	22 47 02.32	+25 59 31.0	17.9 N	K	157
C/2021 O3	2021 09 11.91624	22 47 01.81	+25 59 27.2	18.3 N	K	157
C/2021 O3	2021 09 11.91898	22 47 01.65	+25 59 26.1	18.0 T	K	204
C/2021 O3	2021 09 11.92385	22 47 01.29	+25 59 23.3	17.9 N	K	157
C/2021 O3	2021 09 12.408466	22 46 27.53	+25 55 21.4	17.89o		T08
C/2021 O3	2021 09 12.412614	22 46 27.28	+25 55 19.8	18.01o		T08
C/2021 O3	2021 09 12.418478	22 46 26.83	+25 55 16.0	18.26o		T08
C/2021 O3	2021 09 12.449530	22 46 24.64	+25 55 00.8	18.34o		T08
C/2021 O3	2021 09 12.77851	22 46 01.81	+25 52 10.8	18.1 T		A98
C/2021 O3	2021 09 12.78415	22 46 01.43	+25 52 08.5	18.0 T		A98
C/2021 O3	2021 09 12.78697	22 46 01.15	+25 52 06.3	17.4 T		A98
C/2021 O3	2021 09 12.79824	22 46 00.34	+25 52 00.7	17.5 T		A98
C/2021 O3	2021 09 12.80106	22 46 00.15	+25 51 58.8	17.5 T		A98
C/2021 O3	2021 09 12.80388	22 46 00.03	+25 51 58.1	17.4 T		A98
C/2021 O3	2021 09 12.81481	22 45 59.23	+25 51 52.5	17.3 T		A98
C/2021 O3	2021 09 13.240245	22 45 29.60	+25 48 14.6	18.25G		703
C/2021 O3	2021 09 13.245529	22 45 29.15	+25 48 12.2	18.08G		703
C/2021 O3	2021 09 13.250807	22 45 28.88	+25 48 08.7	18.23G		703
C/2021 O3	2021 09 13.256086	22 45 28.51	+25 48 06.8	18.31G		703
C/2021 O3	2021 09 13.256955	22 45 28.25	+25 48 08.0	18.45G		703
C/2021 O3	2021 09 13.262267	22 45 27.90	+25 48 05.2	18.27G		703
C/2021 O3	2021 09 13.267572	22 45 27.50	+25 48 02.6	18.50G		703
C/2021 O3	2021 09 13.272873	22 45 27.12	+25 47 59.5	18.48G		703
C/2021 O3	2021 09 14.220459	22 44 21.13	+25 39 37.6	18.62T		I41
C/2021 O3	2021 09 14.244780	22 44 19.40	+25 39 24.9	18.65T		I41
C/2021 O3	2021 09 14.245720	22 44 19.33	+25 39 24.4	18.60T		I41
C/2021 O3	2021 09 14.374650	22 44 10.17	+25 38 14.9	19.17T		I41
C/2021 O3	2021 09 14.404770	22 44 08.03	+25 37 58.5	18.36T		I41
C/2021 O3	2021 09 14.87991	22 43 34.85	+25 33 40.1	18.2 T	K	G02
C/2021 O3	2021 09 14.88974	22 43 34.20	+25 33 34.9	18.3 T	K	G02
C/2021 O3	2021 09 14.89957	22 43 33.50	+25 33 29.6	18.2 T	K	G02
C/2021 O3	2021 09 15.94139	22 42 20.46	+25 23 50.3	18.0 T	K	970
C/2021 O3	2021 09 15.94553	22 42 20.15	+25 23 48.2	18.0 T	K	970
C/2021 O3	2021 09 15.98085	22 42 17.62	+25 23 28.5	17.4 T		C23
C/2021 O3	2021 09 15.98518	22 42 17.31	+25 23 25.7	17.9 T		C23
C/2021 O3	2021 09 15.98951	22 42 16.97	+25 23 22.7	17.7 T		C23
C/2021 O3	2021 09 16.209046	22 42 01.74	+25 21 19.7	18.36G		703
C/2021 O3	2021 09 16.219584	22 42 00.95	+25 21 13.3	18.22G		703

C/2021 O3	2021 09 16.224851	22 42 00.64	+25 21 10.9	17.95G	703
C/2021 O3	2021 09 17.221113	22 40 50.65	+25 11 35.5	18.28G	G96
C/2021 O3	2021 09 17.227481	22 40 50.20	+25 11 31.8	18.28G	G96
C/2021 O3	2021 09 17.232862	22 40 49.82	+25 11 28.6	18.25G	G96
C/2021 O3	2021 09 17.238237	22 40 49.43	+25 11 25.3	18.19G	G96

C/2021 P1 (PANSTARRS)

C/2021 P1	2021 07 14.555481	00 36 15.351	+00 24 57.16	20.92G	F51
C/2021 P1	2021 07 14.568235	00 36 15.318	+00 25 01.44	21.38G	F51
C/2021 P1	2021 07 21.562992	00 35 53.215	+01 02 03.93	20.92G	F51
C/2021 P1	2021 07 21.572766	00 35 53.156	+01 02 06.91	20.92G	F51
C/2021 P1	2021 07 21.582525	00 35 53.112	+01 02 09.97	21.61G	F51
C/2021 P1	2021 08 04.55928	00 33 13.225	+02 11 18.20	21.2 w	F51
C/2021 P1	2021 08 04.57200	00 33 12.980	+02 11 21.86	21.2 w	F51
C/2021 P1	2021 08 04.58471	00 33 12.765	+02 11 25.47	21.0 w	F51
C/2021 P1	2021 08 04.59745	00 33 12.536	+02 11 29.10	21.2 w	F51
C/2021 P1	2021 08 09.509391	00 31 38.234	+02 34 09.69	21.72w	F51
C/2021 P1	2021 08 09.518806	00 31 38.026	+02 34 12.27	21.69w	F51
C/2021 P1	2021 08 09.528214	00 31 37.820	+02 34 14.82	21.72w	F51
C/2021 P1	2021 08 09.537649	00 31 37.609	+02 34 17.39	21.67w	F51
C/2021 P1	2021 08 10.061500	00 31 26.36	+02 36 39.1	21.3 V	K L01
C/2021 P1	2021 08 10.083974	00 31 25.82	+02 36 44.6	21.3 V	K L01
C/2021 P1	2021 08 10.504469	00 31 16.689	+02 38 39.06	21.77w	F51
C/2021 P1	2021 08 10.514204	00 31 16.468	+02 38 41.69	21.64w	F51
C/2021 P1	2021 08 10.524024	00 31 16.239	+02 38 44.30	21.73w	F51
C/2021 P1	2021 08 10.528720	00 31 16.137	+02 38 45.54	20.48G	28 568
C/2021 P1	2021 08 10.529929	00 31 16.109	+02 38 45.88	20.45G	28 568
C/2021 P1	2021 08 10.531138	00 31 16.079	+02 38 46.21	20.40G	28 568
C/2021 P1	2021 08 10.533922	00 31 16.022	+02 38 47.02	21.66w	F51
C/2021 P1	2021 08 12.53778	00 30 30.126	+02 47 42.70	21.3 w	F51
C/2021 P1	2021 08 12.54971	00 30 29.826	+02 47 45.97	21.2 w	F51
C/2021 P1	2021 08 12.56165	00 30 29.543	+02 47 49.29	20.9 w	F51
C/2021 P1	2021 08 12.57366	00 30 29.232	+02 47 52.30	21.1 w	F51
C/2021 P1	2021 08 12.77531	00 30 24.37	+02 48 47.1		01Q62
C/2021 P1	2021 08 12.78208	00 30 24.22	+02 48 48.9	20.2 G	01Q62
C/2021 P1	2021 08 15.06301	00 29 27.66	+02 58 45.7		H 204
C/2021 P1	2021 08 15.09286	00 29 26.86	+02 58 52.7	20.6 T	K 204
C/2021 P1	2021 08 16.08853	00 29 00.78	+03 03 12.5	20.8 T	01 L81
C/2021 P1	2021 08 16.10840	00 29 00.23	+03 03 17.6		01 L81
C/2021 P1	2021 09 01.414201	00 20 07.31	+04 08 38.8		01 658
C/2021 P1	2021 09 01.419780	00 20 07.06	+04 08 39.9		01 658
C/2021 P1	2021 09 01.425359	00 20 06.86	+04 08 41.4		01 658
C/2021 P1	2021 09 01.430937	00 20 06.64	+04 08 42.6		01 658
C/2021 P1	2021 09 01.436516	00 20 06.48	+04 08 44.0		01 658
C/2021 P1	2021 09 01.99431	00 19 45.01	+04 10 48.0	20.1 T	K 215
C/2021 P1	2021 09 01.99818	00 19 44.85	+04 10 48.7	19.9 T	K 215
C/2021 P1	2021 09 02.00205	00 19 44.67	+04 10 49.1	19.5 T	K 215
C/2021 P1	2021 09 04.464865	00 18 07.559	+04 19 51.84	20.70w	F51
C/2021 P1	2021 09 04.476715	00 18 07.079	+04 19 54.53	20.87w	F51
C/2021 P1	2021 09 04.500297	00 18 06.122	+04 19 59.69	20.77w	F51
C/2021 P1	2021 09 07.23899	00 16 14.03	+04 29 48.7	19.8 T	K X03
C/2021 P1	2021 09 07.26260	00 16 13.02	+04 29 53.7	21.0 T	K X03
C/2021 P1	2021 09 07.26723	00 16 12.83	+04 29 54.7	20.3 T	K X03
C/2021 P1	2021 09 09.491242	00 14 38.923	+04 37 39.36	20.85w	F52
C/2021 P1	2021 09 09.503576	00 14 38.386	+04 37 42.02	20.65w	F52
C/2021 P1	2021 09 09.515913	00 14 37.850	+04 37 44.57	20.82w	F52
C/2021 P1	2021 09 09.528231	00 14 37.299	+04 37 47.12	20.93w	F52
C/2021 P1	2021 09 10.318415	00 14 03.44	+04 40 30.1	19.97G	G96
C/2021 P1	2021 09 10.324088	00 14 03.18	+04 40 30.9	20.20G	G96
C/2021 P1	2021 09 10.329758	00 14 02.92	+04 40 32.2	20.31G	G96
C/2021 P1	2021 09 10.337245	00 14 02.60	+04 40 33.7	20.15G	G96

C/2021 P2 (PANSTARRS)

C/2021 P2	2021 06 19.586882	01 17 01.355	+17 11 42.25	21.67G	F51
C/2021 P2	2021 06 19.591397	01 17 01.352	+17 11 42.85	21.05G	F51
C/2021 P2	2021 06 19.595933	01 17 01.358	+17 11 43.82	21.34G	F51
C/2021 P2	2021 06 19.600470	01 17 01.324	+17 11 44.29	21.53G	F51
C/2021 P2	2021 08 07.524359	01 01 45.861	+18 57 00.98	21.50w	F51
C/2021 P2	2021 08 07.538656	01 01 45.323	+18 57 01.88	21.40w	F51
C/2021 P2	2021 08 07.552911	01 01 44.789	+18 57 02.65	21.57w	F51
C/2021 P2	2021 08 07.567125	01 01 44.247	+18 57 03.28	21.70w	F51
C/2021 P2	2021 08 08.08837	01 01 24.68	+18 57 28.5	21.8 V	01 033
C/2021 P2	2021 08 08.09167	01 01 24.54	+18 57 28.8	21.4 V	01 033
C/2021 P2	2021 08 08.09496	01 01 24.40	+18 57 29.2	21.3 V	01 033
C/2021 P2	2021 08 08.355656	01 01 14.59	+18 57 40.9	20.9 V	K H21
C/2021 P2	2021 08 08.366484	01 01 14.16	+18 57 42.0	21.1 V	K H21
C/2021 P2	2021 08 08.371897	01 01 13.97	+18 57 42.2	21.1 V	K H21
C/2021 P2	2021 08 09.052563	01 00 47.91	+18 58 13.2	21.3 V	K L01
C/2021 P2	2021 08 09.057313	01 00 47.71	+18 58 13.4	21.4 V	K L01
C/2021 P2	2021 08 09.062065	01 00 47.57	+18 58 13.8	21.5 V	K L01
C/2021 P2	2021 08 09.511676	01 00 30.108	+18 58 33.62	21.75w	F51
C/2021 P2	2021 08 09.521089	01 00 29.741	+18 58 34.17	21.64w	F51
C/2021 P2	2021 08 09.530528	01 00 29.363	+18 58 34.51	21.73w	F51
C/2021 P2	2021 08 09.539940	01 00 28.990	+18 58 34.98	21.62w	F51
C/2021 P2	2021 08 10.510722	00 59 50.775	+18 59 13.45	21.67w	F51
C/2021 P2	2021 08 10.520523	00 59 50.379	+18 59 13.79	21.62w	F51
C/2021 P2	2021 08 10.530403	00 59 49.982	+18 59 14.19	21.84w	F51
C/2021 P2	2021 08 11.512281	00 59 10.505	+18 59 48.74	21.01G	28 568
C/2021 P2	2021 08 11.513490	00 59 10.458	+18 59 48.77	21.02G	28 568
C/2021 P2	2021 08 11.514700	00 59 10.413	+18 59 48.78	20.95G	28 568
C/2021 P2	2021 08 17.574315	00 54 49.10	+19 01 38.6	20.6 G	21 F65
C/2021 P2	2021 08 17.576447	00 54 49.01	+19 01 38.6	20.3 G	21 F65
C/2021 P2	2021 08 17.578579	00 54 48.91	+19 01 38.6	21.1 G	21 F65
C/2021 P2	2021 08 17.580716	00 54 48.79	+19 01 38.6	21.0 G	21 F65
C/2021 P2	2021 08 20.465791	00 52 33.972	+19 01 25.61	21.35i	F51
C/2021 P2	2021 08 20.478223	00 52 33.388	+19 01 25.37	21.28i	F51
C/2021 P2	2021 08 20.490780	00 52 32.787	+19 01 25.19	21.25i	F51
C/2021 P2	2021 08 20.503524	00 52 32.159	+19 01 25.24	21.16i	F51
C/2021 P2	2021 09 02.92616	00 40 40.88	+18 50 17.1	20.1 T	K 215
C/2021 P2	2021 09 02.93003	00 40 40.66	+18 50 15.8	20.3 T	K 215
C/2021 P2	2021 09 02.93390	00 40 40.46	+18 50 15.3	20.5 T	K 215
C/2021 P2	2021 09 03.484781	00 40 08.499	+18 49 25.69	21.1 T	29 568
C/2021 P2	2021 09 03.488087	00 40 08.305	+18 49 25.40	21.2 T	29 568
C/2021 P2	2021 09 07.339137	00 36 19.97	+18 42 44.2	20.63G	G96
C/2021 P2	2021 09 07.344783	00 36 19.60	+18 42 43.3	20.86G	G96

C/2021 P2	2021 09 07.350431	00 36 19.27	+18 42 42.9		20.78G	G96
C/2021 P2	2021 09 07.356069	00 36 18.90	+18 42 42.0		20.46G	G96

P/2021 P3 (PANSTARRS)

P/2021 P3	2021 08 03.584066	00 27 06.019	−04 18 54.90		21.24G	F51
P/2021 P3	2021 08 03.592328	00 27 05.907	−04 18 52.44		21.14G	F51
P/2021 P3	2021 08 03.600515	00 27 05.774	−04 18 49.59		21.31G	F51
P/2021 P3	2021 08 03.608703	00 27 05.640	−04 18 47.00		21.26G	F51
P/2021 P3	2021 08 11.584549	00 24 32.595	−03 38 48.08		20.63w	F51
P/2021 P3	2021 08 11.597013	00 24 32.280	−03 38 44.71		20.58w	F51
P/2021 P3	2021 08 11.609442	00 24 31.956	−03 38 40.67		20.64w	F51
P/2021 P3	2021 08 12.161842	00 24 18.079	−03 36 03.92		19.9 G	02 J04
P/2021 P3	2021 08 12.165152	00 24 17.979	−03 36 02.78		20.0 G	02 J04
P/2021 P3	2021 08 12.176782	00 24 17.678	−03 35 59.25		20.0 G	02 J04
P/2021 P3	2021 08 12.180079	00 24 17.583	−03 35 58.63		19.9 G	02 J04
P/2021 P3	2021 08 12.493973	00 24 09.543	−03 34 28.32		21.52G	28 568
P/2021 P3	2021 08 12.495183	00 24 09.509	−03 34 28.01		21.54G	28 568
P/2021 P3	2021 08 12.496394	00 24 09.478	−03 34 27.72		21.44G	28 568
P/2021 P3	2021 08 12.78753	00 24 01.64	−03 33 02.6			01Q62
P/2021 P3	2021 08 12.79096	00 24 01.53	−03 33 01.6			01Q62
P/2021 P3	2021 08 12.79439	00 24 01.45	−03 33 00.8		19.7 G	01Q62
P/2021 P3	2021 08 13.59586	00 23 39.79	−03 29 14.7		20.4 R	K E94
P/2021 P3	2021 08 13.60792	00 23 39.51	−03 29 11.6		20.2 R	K E94
P/2021 P3	2021 08 13.61354	00 23 39.33	−03 29 09.2		20.3 R	K E94
P/2021 P3	2021 08 13.63455	00 23 38.73	−03 29 02.6		20.4 R	K E94
P/2021 P3	2021 08 13.64076	00 23 38.55	−03 29 01.8		20.3 R	K E94
P/2021 P3	2021 08 13.69575	00 23 36.99	−03 28 44.4		20.3 R	K E94
P/2021 P3	2021 08 13.95944	00 23 30.16	−03 29 13.8		20.0 R	K C10
P/2021 P3	2021 08 13.97083	00 23 29.43	−03 27 35.7		20.0 R	K C10
P/2021 P3	2021 08 13.98223	00 23 29.10	−03 27 32.5		20.0 R	K C10
P/2021 P3	2021 08 15.00932	00 22 59.45	−03 22 48.0		19.6 R	K C10
P/2021 P3	2021 08 15.02687	00 22 58.90	−03 22 43.5		19.6 R	K C10
P/2021 P3	2021 08 15.04442	00 22 58.35	−03 22 39.1		19.5 R	K C10
P/2021 P3	2021 08 15.08610	00 22 57.03	−03 22 26.7		19.3 R	K K51
P/2021 P3	2021 08 15.090004	00 22 56.96	−03 22 25.2		20.2 V	K L01
P/2021 P3	2021 08 15.09324	00 22 56.81	−03 22 24.2		19.4 R	K K51
P/2021 P3	2021 08 15.095533	00 22 56.72	−03 22 22.7		19.6 V	K L01
P/2021 P3	2021 08 15.10038	00 22 56.61	−03 22 22.7		19.3 R	K K51
P/2021 P3	2021 08 15.101082	00 22 56.57	−03 22 22.0		20.2 V	K L01
P/2021 P3	2021 08 15.48157	00 22 45.54	−03 20 34.2		19.8 R	K E94
P/2021 P3	2021 08 15.52017	00 22 44.07	−03 20 22.6		19.7 R	K E94
P/2021 P3	2021 09 01.97935	00 10 45.20	−02 08 03.0		19.7 T	K 215
P/2021 P3	2021 09 01.98257	00 10 45.02	−02 08 02.3		19.6 T	K 215
P/2021 P3	2021 09 01.98580	00 10 44.84	−02 08 01.7		19.2 T	K 215
P/2021 P3	2021 09 05.43153	00 07 44.934	−01 55 09.13		20.6 w	F51
P/2021 P3	2021 09 05.44344	00 07 44.272	−01 55 06.52		20.5 w	F51
P/2021 P3	2021 09 05.45530	00 07 43.619	−01 55 03.91		20.5 w	F51
P/2021 P3	2021 09 05.46717	00 07 42.958	−01 55 01.34		20.5 w	F51
P/2021 P3	2021 09 05.50933	00 07 40.70	−01 54 48.2		19.3 T	K E94
P/2021 P3	2021 09 05.51862	00 07 40.19	−01 54 45.5		19.3 T	K E94
P/2021 P3	2021 09 05.52832	00 07 39.69	−01 54 43.9		19.3 T	K E94
P/2021 P3	2021 09 05.53695	00 07 39.19	−01 54 43.2		19.4 T	K E94
P/2021 P3	2021 09 07.29388	00 06 03.69	−01 48 18.3		19.7 T	K X03
P/2021 P3	2021 09 07.30392	00 06 03.13	−01 48 16.8		19.6 T	X03
P/2021 P3	2021 09 07.30727	00 06 02.94	−01 48 16.0		19.7 T	K X03
P/2021 P3	2021 09 07.31952	00 06 02.31	−01 48 13.7		20.2 T	K X03
P/2021 P3	2021 09 09.479297	00 04 02.285	−01 40 30.62		20.63w	F51
P/2021 P3	2021 09 09.502361	00 04 00.943	−01 40 25.76		20.60w	F51
P/2021 P3	2021 09 09.513095	00 04 00.330	−01 40 23.54		20.66w	F51
P/2021 P3	2021 09 09.523796	00 03 59.704	−01 40 21.19		20.69w	F51
P/2021 P3	2021 09 11.259001	00 02 21.57	−01 34 13.0		19.16G	G96
P/2021 P3	2021 09 11.263754	00 02 21.30	−01 34 12.1		19.45G	G96
P/2021 P3	2021 09 11.268511	00 02 21.02	−01 34 10.8		19.86G	G96
P/2021 P3	2021 09 11.273257	00 02 20.75	−01 34 10.1		19.69G	G96
P/2021 P3	2021 09 14.273361	23 59 27.72	−01 23 40.7		19.28G	703
P/2021 P3	2021 09 14.278648	23 59 27.38	−01 23 38.8		19.96G	703
P/2021 P3	2021 09 14.283936	23 59 27.05	−01 23 38.6		18.74G	703
P/2021 P3	2021 09 14.289226	23 59 26.66	−01 23 37.2		18.98G	703

C/2021 P4 (ATLAS)

C/2021 P4	2021 08 10.537168	01 06 54.69	+55 52 13.6		19.44o	T05
C/2021 P4	2021 08 10.538997	01 06 54.55	+55 52 16.7		19.23o	T05
C/2021 P4	2021 08 10.541742	01 06 54.48	+55 52 18.5		19.25o	T05
C/2021 P4	2021 08 10.551102	01 06 54.31	+55 52 25.0		19.34o	T05
C/2021 P4	2021 08 10.563505	01 06 54.06	+55 52 33.3		19.36o	T05
C/2021 P4	2021 08 11.001669	01 06 44.91	+55 57 34.4		19.3 G	K L01
C/2021 P4	2021 08 11.005624	01 06 44.80	+55 57 37.1		19.3 G	K L01
C/2021 P4	2021 08 11.009587	01 06 44.71	+55 57 40.1		19.2 G	K L01
C/2021 P4	2021 08 11.013561	01 06 44.62	+55 57 42.5		19.2 G	K L01
C/2021 P4	2021 08 11.198883	01 06 40.578	+55 59 50.86		19.1 G	02 J04
C/2021 P4	2021 08 11.204679	01 06 40.424	+55 59 54.86		19.4 G	02 J04
C/2021 P4	2021 08 11.205782	01 06 40.400	+55 59 55.66		19.4 G	02 J04
C/2021 P4	2021 08 11.206879	01 06 40.371	+55 59 56.37		19.5 G	02 J04
C/2021 P4	2021 08 11.85153	01 06 26.13	+56 07 17.2		19.0 G	K A17
C/2021 P4	2021 08 11.86375	01 06 25.80	+56 07 25.5		19.5 G	K A17
C/2021 P4	2021 08 11.87589	01 06 25.58	+56 07 33.7		19.5 G	K A17
C/2021 P4	2021 08 11.89855	01 06 25.07	+56 07 49.2		19.1 G	B72
C/2021 P4	2021 08 11.906399	01 06 25.07	+56 07 54.7		19.4 G	K K78
C/2021 P4	2021 08 11.90696	01 06 24.91	+56 07 55.5		19.5 G	K B72
C/2021 P4	2021 08 11.90905	01 06 24.84	+56 07 56.7		19.7 G	K B72
C/2021 P4	2021 08 11.936619	01 06 24.24	+56 08 16.1		19.3 G	K K78
C/2021 P4	2021 08 11.94005	01 06 24.17	+56 08 18.3		19.8 G	K B72
C/2021 P4	2021 08 11.956332	01 06 23.74	+56 08 29.5		19.2 G	K K78
C/2021 P4	2021 08 11.965239	01 06 23.55	+56 08 35.7		19.4 G	K 203
C/2021 P4	2021 08 11.982968	01 06 23.05	+56 08 48.0		19.3 G	K K80
C/2021 P4	2021 08 11.983116	01 06 23.11	+56 08 48.1		19.3 G	K 203
C/2021 P4	2021 08 12.002783	01 06 22.61	+56 09 02.0		19.6 G	K 203
C/2021 P4	2021 08 12.050436	01 06 21.45	+56 09 34.8		19.7 G	K K80
C/2021 P4	2021 08 12.057652	01 06 21.34	+56 09 39.4		20.0 G	L01
C/2021 P4	2021 08 12.058438	01 06 21.22	+56 09 40.3		20.0 G	L01
C/2021 P4	2021 08 12.059213	01 06 21.23	+56 09 40.7		20.0 G	L01
C/2021 P4	2021 08 12.32102	01 06 15.33	+56 12 40.3		21.0 R	U83
C/2021 P4	2021 08 12.32250	01 06 15.33	+56 12 42.0		20.9 R	U83
C/2021 P4	2021 08 12.32844	01 06 15.10	+56 12 46.2		20.7 R	U83
C/2021 P4	2021 08 12.329709	01 06 14.95	+56 12 46.2		19.9 V	K H21
C/2021 P4	2021 08 12.332503	01 06 14.88	+56 12 48.3		19.3 V	K H21

C/2021 P4	2021 08 12.335301	01 06 14.80	+56 12 50.2	19.4	V	K	H21
C/2021 P4	2021 08 12.82929	01 06 02.94	+56 18 26.7	20.2	V	01	033
C/2021 P4	2021 08 12.82957	01 06 02.98	+56 18 26.9	20.3	V	01	033
C/2021 P4	2021 08 12.82986	01 06 02.96	+56 18 27.3	20.3	V	01	033
C/2021 P4	2021 08 12.83045	01 06 02.99	+56 18 27.8	20.2	V	01	033
C/2021 P4	2021 08 12.89883	01 06 01.37	+56 19 14.7	19.0	G	K	B72
C/2021 P4	2021 08 12.946562	01 06 00.11	+56 19 47.6	19.9	G	K	Z99
C/2021 P4	2021 08 12.952641	01 05 59.92	+56 19 51.2	19.8	G	K	Z99
C/2021 P4	2021 08 12.957704	01 05 59.84	+56 19 54.6	20.0	G	K	Z99
C/2021 P4	2021 08 12.967363	01 05 59.56	+56 20 02.2	19.3	G	K	K80
C/2021 P4	2021 08 12.97065	01 05 59.45	+56 20 05.0	20.1	G	K	B72
C/2021 P4	2021 08 12.97380	01 05 59.29	+56 20 05.6	19.7	G	K	B72
C/2021 P4	2021 08 12.980202	01 05 59.25	+56 20 10.7	18.6	G	K	K80
C/2021 P4	2021 08 12.993340	01 05 58.92	+56 20 19.9	19.7	G	K	K80
C/2021 P4	2021 08 13.006460	01 05 58.58	+56 20 28.6	19.2	G	K	K80
C/2021 P4	2021 08 13.019557	01 05 58.22	+56 20 37.8	19.1	G	K	K80
C/2021 P4	2021 08 13.05833	01 05 57.26	+56 21 03.9	19.6	G	K	K87
C/2021 P4	2021 08 13.07297	01 05 56.93	+56 21 14.8	20.3	G	K	K87
C/2021 P4	2021 08 13.073883	01 05 56.79	+56 21 15.1	19.3	G	K	K80
C/2021 P4	2021 08 13.086725	01 05 56.48	+56 21 23.5	19.9	G	K	K80
C/2021 P4	2021 08 13.08762	01 05 56.54	+56 21 24.9	20.0	G	K	K87
C/2021 P4	2021 08 13.87178	01 05 36.51	+56 30 18.3	19.8	R	K	C10
C/2021 P4	2021 08 13.89683	01 05 36.09	+56 30 36.8	19.8	R	K	C10
C/2021 P4	2021 08 13.91570	01 05 35.19	+56 30 47.3	20.2	T	K	B96
C/2021 P4	2021 08 13.92144	01 05 35.37	+56 30 53.7	19.7	R	K	C10
C/2021 P4	2021 08 13.94528	01 05 34.41	+56 31 09.0	20.3	T	K	B96
C/2021 P4	2021 08 13.94942	01 05 34.35	+56 31 11.5	19.3	V	K	C77
C/2021 P4	2021 08 13.949824	01 05 34.37	+56 31 12.5	19.3	G	K	L06
C/2021 P4	2021 08 13.953339	01 05 34.27	+56 31 14.9	19.3	G	K	L06
C/2021 P4	2021 08 13.95514	01 05 34.19	+56 31 14.8	20.1	T	K	B96
C/2021 P4	2021 08 13.958259	01 05 34.17	+56 31 18.2	19.5	G	K	L06
C/2021 P4	2021 08 13.96126	01 05 34.02	+56 31 20.1	19.2	V	K	C77
C/2021 P4	2021 08 13.99627	01 05 33.07	+56 31 44.2	19.2	R	K	104
C/2021 P4	2021 08 14.00379	01 05 32.89	+56 31 49.4	19.1	R	K	104
C/2021 P4	2021 08 14.011412	01 05 32.66	+56 31 54.7	19.5	G	K	L06
C/2021 P4	2021 08 14.11148	01 05 30.04	+56 33 03.2	19.4	G	02	G40
C/2021 P4	2021 08 14.12171	01 05 29.80	+56 33 10.3	19.6	G	02	G40
C/2021 P4	2021 08 14.83659	01 05 10.29	+56 41 14.8	20.1	V	01	033
C/2021 P4	2021 08 14.83727	01 05 10.18	+56 41 15.1	19.9	V	01	033
C/2021 P4	2021 08 14.83835	01 05 10.20	+56 41 15.8	20.2	V	01	033
C/2021 P4	2021 08 14.83967	01 05 10.16	+56 41 16.9	20.2	V	01	033
C/2021 P4	2021 08 14.94267	01 05 07.36	+56 42 27.4	18.7	R	K	C82
C/2021 P4	2021 08 14.95012	01 05 07.03	+56 42 32.3	19.7	G	K	C43
C/2021 P4	2021 08 14.95475	01 05 06.93	+56 42 35.6	19.1	R	K	C82
C/2021 P4	2021 08 14.95662	01 05 06.76	+56 42 36.8	19.4	G	K	C43
C/2021 P4	2021 08 14.95832	01 05 06.75	+56 42 38.0	19.4	G	K	204
C/2021 P4	2021 08 14.96313	01 05 06.61	+56 42 40.7	19.3	G	K	C43
C/2021 P4	2021 08 14.96584	01 05 06.60	+56 42 43.1			K	204
C/2021 P4	2021 08 14.97018	01 05 06.44	+56 42 45.4	19.6	G	K	C43
C/2021 P4	2021 08 14.97336	01 05 06.38	+56 42 48.4			K	204
C/2021 P4	2021 08 14.99135	01 05 05.85	+56 43 00.8	19.5	G	K	C47
C/2021 P4	2021 08 15.01570	01 05 05.11	+56 43 17.2	19.5	G	K	C47
C/2021 P4	2021 08 15.03410	01 05 04.59	+56 43 30.0	18.4	R	K	K51
C/2021 P4	2021 08 15.04124	01 05 04.38	+56 43 34.9	18.6	R	K	K51
C/2021 P4	2021 08 15.04838	01 05 04.15	+56 43 39.5	18.5	R	K	K51
C/2021 P4	2021 08 15.05329	01 05 04.00	+56 43 42.7	19.4	G	K	K87
C/2021 P4	2021 08 15.05988	01 05 03.81	+56 43 47.4	19.5	G	K	K87
C/2021 P4	2021 08 15.11133	01 05 02.35	+56 44 22.4	20.0	V	01	033
C/2021 P4	2021 08 15.11161	01 05 02.31	+56 44 22.6	20.2	V	01	033
C/2021 P4	2021 08 15.11190	01 05 02.29	+56 44 22.7	20.1	V	01	033
C/2021 P4	2021 08 15.11221	01 05 02.31	+56 44 23.0	20.4	V	01	033
C/2021 P4	2021 08 15.91324	01 04 39.04	+56 53 24.4	19.0	R	K	C82
C/2021 P4	2021 08 15.92861	01 04 38.70	+56 53 36.1	19.0	R	K	C82
C/2021 P4	2021 08 15.96265	01 04 37.50	+56 53 58.1	18.8	G	K	Z41
C/2021 P4	2021 08 15.99659	01 04 36.48	+56 54 20.6	18.9	G	K	Z41
C/2021 P4	2021 08 16.03039	01 04 35.41	+56 54 44.6	18.8	G	K	Z41
C/2021 P4	2021 08 16.11021	01 04 32.94	+56 55 38.7	20.5	V	01	033
C/2021 P4	2021 08 16.11050	01 04 32.91	+56 55 38.9	20.8	V	01	033
C/2021 P4	2021 08 16.534956	01 04 19.91	+57 00 26.5	19.57c			T08
C/2021 P4	2021 08 16.555930	01 04 19.23	+57 00 39.9	19.74c			T08
C/2021 P4	2021 08 16.558806	01 04 19.11	+57 00 42.1	19.48c			T08
C/2021 P4	2021 08 16.583887	01 04 18.18	+57 00 58.4	19.60c			T08
C/2021 P4	2021 08 16.878520	01 04 09.14	+57 04 14.8			I	J95
C/2021 P4	2021 08 16.886285	01 04 08.92	+57 04 20.1	19.4	G	K	J95
C/2021 P4	2021 08 16.901166	01 04 08.46	+57 04 30.7	19.2	G	K	J95
C/2021 P4	2021 08 16.908500	01 04 08.24	+57 04 35.3			I	J95
C/2021 P4	2021 08 17.626242	01 03 44.74	+57 12 40.1	20.5	G	21	F65
C/2021 P4	2021 08 17.628154	01 03 44.67	+57 12 41.4	20.4	G	21	F65
C/2021 P4	2021 08 17.630066	01 03 44.57	+57 12 42.4	20.6	G	21	F65
C/2021 P4	2021 08 17.631979	01 03 44.56	+57 12 43.7	20.4	G	21	F65
C/2021 P4	2021 08 17.962627	01 03 33.69	+57 16 23.4	19.2	G	K	B49
C/2021 P4	2021 08 17.966019	01 03 33.57	+57 16 25.9	19.2	G	K	B49
C/2021 P4	2021 08 17.967801	01 03 33.51	+57 16 27.2	19.1	G	K	B49
C/2021 P4	2021 08 18.16045	01 03 26.79	+57 18 36.9			06	I89
C/2021 P4	2021 08 18.16796	01 03 26.53	+57 18 41.8	19.0	G	06	I89
C/2021 P4	2021 08 18.61083	01 03 11.58	+57 23 37.8	17.6	T	K	Q21
C/2021 P4	2021 08 18.61293	01 03 09.88	+57 23 49.9	19.7	V	K	Q21
C/2021 P4	2021 08 18.61556	01 03 11.45	+57 23 43.6	18.1	T	K	Q21
C/2021 P4	2021 08 18.62343	01 03 10.95	+57 23 44.8	18.5	V	K	Q21
C/2021 P4	2021 08 18.85430	01 03 02.82	+57 26 18.7	19.1	G	K	K78
C/2021 P4	2021 08 18.86355	01 03 02.48	+57 26 24.7	19.1	G	K	K78
C/2021 P4	2021 08 18.87301	01 03 02.24	+57 26 31.0	19.2	G	K	K78
C/2021 P4	2021 08 18.89203	01 03 01.40	+57 26 44.2	19.8	R	K	L27
C/2021 P4	2021 08 18.93910	01 02 59.95	+57 27 16.7	19.9	R	K	L27
C/2021 P4	2021 08 18.98616	01 02 58.10	+57 27 47.2	19.8	R	K	L27
C/2021 P4	2021 08 19.72318	01 02 31.21	+57 35 57.1	19.2	V	K	Q21
C/2021 P4	2021 08 19.73368	01 02 30.76	+57 36 04.8	19.2	V	K	Q21
C/2021 P4	2021 08 19.873048	01 02 25.73	+57 37 36.1	19.3	G	K	595
C/2021 P4	2021 08 19.890684	01 02 24.97	+57 37 47.8	19.6	G	K	595
C/2021 P4	2021 08 19.908321	01 02 24.41	+57 37 59.3	19.2	G	K	595
C/2021 P4	2021 08 19.926343	01 02 23.63	+57 38 11.6	19.2	G	K	595
C/2021 P4	2021 08 19.930058	01 02 23.52	+57 38 13.8	19.5	G	K	J95
C/2021 P4	2021 08 19.93051	01 02 23.54	+57 38 13.9	19.3	G	K	247
C/2021 P4	2021 08 19.93051	1 009.1183	+44.7719	493			247
C/2021 P4	2021 08 19.94293	01 02 23.06	+57 38 22.0	18.9	G	K	247
C/2021 P4	2021 08 19.94293	1 009.1183	+44.7719	493			247

C/2021 P4	2021 08 19.977628	01 02 21.78	+57 38 45.5	19.4	G	K	J95
C/2021 P4	2021 08 19.997231	01 02 21.01	+57 38 58.6	19.4	G	K	J95
C/2021 P4	2021 08 20.13203	01 02 15.75	+57 40 29.2	19.1	V	K	A77
C/2021 P4	2021 08 20.14015	01 02 15.39	+57 40 34.4	19.0	V	K	A77
C/2021 P4	2021 08 20.14461	01 02 15.39	+57 40 37.1	19.2	G		09G40
C/2021 P4	2021 08 20.14826	01 02 15.06	+57 40 40.0	19.0	V	K	A77
C/2021 P4	2021 08 20.21404	01 02 12.64	+57 41 22.7	19.9	G		09G40
C/2021 P4	2021 08 20.266757	01 02 10.79	+57 41 57.3	19.5	V	K	H21
C/2021 P4	2021 08 20.272350	01 02 10.54	+57 42 01.2	19.3	V	K	H21
C/2021 P4	2021 08 20.277945	01 02 10.33	+57 42 04.9	19.3	V	K	H21
C/2021 P4	2021 08 20.283447	01 02 10.12	+57 42 08.5	19.2	V	K	H21
C/2021 P4	2021 08 20.819757	01 01 49.41	+57 48 01.1	18.6	G	K	G34
C/2021 P4	2021 08 20.836642	01 01 48.76	+57 48 11.2	18.8	G	K	G34
C/2021 P4	2021 08 21.004416	01 01 42.04	+57 50 03.3	19.9	G	K	K38
C/2021 P4	2021 08 21.02682	01 01 41.17	+57 50 18.4	19	T		H 204
C/2021 P4	2021 08 21.035355	01 01 40.83	+57 50 24.0	19.2	G	K	K38
C/2021 P4	2021 08 21.03838	01 01 40.66	+57 50 26.1				H 204
C/2021 P4	2021 08 21.04505	01 01 40.43	+57 50 30.4	19.2	G	K	A17
C/2021 P4	2021 08 21.059420	01 01 39.77	+57 50 40.1	19.3	G	K	K38
C/2021 P4	2021 08 21.06965	01 01 39.44	+57 50 46.6	19.2	G	K	A17
C/2021 P4	2021 08 21.09330	01 01 38.46	+57 51 02.3	19.2	G	K	A17
C/2021 P4	2021 08 29.65154	00 54 42.39	+59 21 43.4	18.7	T	K	Q11
C/2021 P4	2021 08 29.65720	00 54 42.06	+59 21 46.7			K	Q11
C/2021 P4	2021 08 29.66321	00 54 41.70	+59 21 50.3			K	Q11
C/2021 P4	2021 09 02.01080	00 51 15.73	+59 55 08.1				K 215
C/2021 P4	2021 09 02.01235	00 51 15.62	+59 55 09.3	20.0	T		K 215
C/2021 P4	2021 09 02.01390	00 51 15.60	+59 55 09.5	19.4	T		K 215
C/2021 P4	2021 09 02.463102	00 50 45.80	+59 59 31.6				01 658
C/2021 P4	2021 09 02.467558	00 50 45.51	+59 59 34.3				01 658
C/2021 P4	2021 09 02.472025	00 50 45.21	+59 59 36.7				01 658
C/2021 P4	2021 09 02.476493	00 50 44.90	+59 59 39.5				01 658
C/2021 P4	2021 09 02.480949	00 50 44.59	+59 59 42.2				01 658
C/2021 P4	2021 09 02.90750	00 50 16.33	+60 03 47.6	19.9	T		K77
C/2021 P4	2021 09 02.91810	00 50 15.52	+60 03 53.9	19.7	T		K77
C/2021 P4	2021 09 03.011400	00 50 09.18	+60 04 48.3	20.0	T	K	K80
C/2021 P4	2021 09 03.038447	00 50 07.34	+60 05 03.6	19.2	T	K	K80
C/2021 P4	2021 09 03.111045	00 50 02.30	+60 05 45.3	19.6	T	K	K80
C/2021 P4	2021 09 03.497567	00 49 36.069	+60 09 28.19	19.9	T		29 568
C/2021 P4	2021 09 03.498427	00 49 36.008	+60 09 28.66	19.9	T		29 568
C/2021 P4	2021 09 05.83755	00 46 49.15	+60 31 15.5	18.3	N		K 157
C/2021 P4	2021 09 05.85384	00 46 47.98	+60 31 25.4	18.4	N		K 157
C/2021 P4	2021 09 07.529719	00 44 40.36	+60 46 29.9	18.98c			T05
C/2021 P4	2021 09 07.559063	00 44 37.94	+60 46 46.8	19.37c			T05
C/2021 P4	2021 09 07.562352	00 44 37.54	+60 46 48.5	19.30c			T05
C/2021 P4	2021 09 07.572192	00 44 36.81	+60 46 52.9	19.49c			T05
C/2021 P4	2021 09 07.86980	00 44 13.94	+60 49 29.2	20.1	T	K	K77
C/2021 P4	2021 09 07.88745	00 44 12.37	+60 49 37.9	19.4	T		K77
C/2021 P4	2021 09 08.85045	00 42 55.33	+60 57 59.2	18.2	T	K	C23
C/2021 P4	2021 09 08.85478	00 42 55.16	+60 58 02.7	18.5	T	K	C23
C/2021 P4	2021 09 08.85983	00 42 54.85	+60 58 05.2	18.4	T	K	C23
C/2021 P4	2021 09 10.03554	00 41 17.52	+61 08 03.1	18.5	T		A98
C/2021 P4	2021 09 10.03767	00 41 17.33	+61 08 05.4	18.7	T		A98
C/2021 P4	2021 09 10.03979	00 41 17.10	+61 08 05.7	18.4	T		A98
C/2021 P4	2021 09 10.04404	00 41 16.69	+61 08 09.6	18.1	T		A98
C/2021 P4	2021 09 10.04617	00 41 16.61	+61 08 10.6	18.4	T		A98
C/2021 P4	2021 09 10.05041	00 41 16.31	+61 08 12.6	18.2	T		A98
C/2021 P4	2021 09 10.05254	00 41 16.08	+61 08 13.6	18.3	T		A98
C/2021 P4	2021 09 10.05466	00 41 15.92	+61 08 14.4	18.5	T		A98
C/2021 P4	2021 09 10.05679	00 41 15.63	+61 08 15.2	18.7	T		A98
C/2021 P4	2021 09 11.435537	00 39 18.42	+61 19 37.0	19.35c			T05
C/2021 P4	2021 09 11.438280	00 39 18.02	+61 19 38.8	19.19c			T05
C/2021 P4	2021 09 11.442940	00 39 17.66	+61 19 40.0	19.07c			T05
C/2021 P4	2021 09 11.448452	00 39 17.14	+61 19 44.1	19.50c			T05
C/2021 P4	2021 09 12.87994	00 37 10.52	+61 31 04.5	19.3	N		K77
C/2021 P4	2021 09 12.88390	00 37 09.82	+61 31 07.2	18.3	T		A98
C/2021 P4	2021 09 12.88839	00 37 09.75	+61 31 08.4	19.4	N		K77
C/2021 P4	2021 09 12.89093	00 37 09.23	+61 31 09.1	17.8	T		A98
C/2021 P4	2021 09 12.89795	00 37 08.51	+61 31 12.9	18.0	T		A98
C/2021 P4	2021 09 12.91552	00 37 06.69	+61 31 19.1	18.2	T		A98
C/2021 P4	2021 09 13.425463	00 36 20.80	+61 35 17.6				01 658
C/2021 P4	2021 09 13.427697	00 36 20.58	+61 35 18.7				01 658
C/2021 P4	2021 09 13.429919	00 36 20.36	+61 35 19.7				01 658
C/2021 P4	2021 09 13.432153	00 36 20.14	+61 35 20.7				01 658
C/2021 P4	2021 09 13.435498	00 36 19.83	+61 35 22.4				01 658
C/2021 P4	2021 09 15.93235	00 32 25.08	+61 53 47.4	19.3	T	K	970
C/2021 P4	2021 09 15.93652	00 32 24.67	+61 53 49.3	18.2	T	K	970

C/2021 Q3 (ATLAS)

C/2021 Q3	2021 08 19.318854	16 00 01.424	+83 46 43.25	19.65G			F51
C/2021 Q3	2021 08 19.328689	15 59 58.642	+83 46 38.32	19.68G			F51
C/2021 Q3	2021 08 26.296542	15 36 03.13	+82 47 43.0	19.02o			T05
C/2021 Q3	2021 08 26.299757	15 36 02.12	+82 47 41.6	19.28o			T05
C/2021 Q3	2021 08 26.306632	15 36 01.21	+82 47 37.1	19.25o			T05
C/2021 Q3	2021 08 26.316730	15 35 58.86	+82 47 31.7	18.78o			T05
C/2021 Q3	2021 08 26.88284	15 34 31.61	+82 42 35.0	19.4	G	K	204
C/2021 Q3	2021 08 26.89299	15 34 29.93	+82 42 29.8				K 204
C/2021 Q3	2021 08 26.90314	15 34 28.60	+82 42 24.3				K 204
C/2021 Q3	2021 08 26.930201	15 34 24.10	+82 42 10.3	19.7	G	K	Z31
C/2021 Q3	2021 08 26.934983	15 34 23.29	+82 42 07.8	19.8	G	K	Z31
C/2021 Q3	2021 08 26.939769	15 34 22.54	+82 42 05.4	19.8	G	K	Z31
C/2021 Q3	2021 08 27.338913	15 33 22.997	+82 38 36.03	19.36i			F51
C/2021 Q3	2021 08 27.346718	15 33 21.906	+82 38 31.93	19.36i			F51
C/2021 Q3	2021 08 27.354583	15 33 20.718	+82 38 27.57	19.29i			F51
C/2021 Q3	2021 08 27.932989	15 31 57.52	+82 33 23.5	19.0	G	K	J95
C/2021 Q3	2021 08 27.936616	15 31 57.21	+82 33 21.9	19.0	G	K	J95
C/2021 Q3	2021 08 27.940266	15 31 56.79	+82 33 19.9	18.9	G	K	J95
C/2021 Q3	2021 08 27.943949	15 31 56.20	+82 33 17.8	18.8	G	K	J95
C/2021 Q3	2021 08 27.977219	15 31 51.67	+82 33 00.5			K	Z80
C/2021 Q3	2021 08 27.991108	15 31 49.41	+82 32 52.6	19.2	G	K	Z80
C/2021 Q3	2021 08 28.004997	15 31 47.63	+82 32 45.3	19.5	G	K	Z80
C/2021 Q3	2021 08 28.130048	15 31 30.10	+82 31 40.7	19.2	G		V39
C/2021 Q3	2021 08 28.132439	15 31 29.74	+82 31 39.5	19.2	G		V39
C/2021 Q3	2021 08 28.134833	15 31 29.42	+82 31 38.2	19.3	G		V39
C/2021 Q3	2021 08 28.137220	15 31 29.06	+82 31 36.9	19.3	G		V39
C/2021 Q3	2021 08 28.246446	15 31 14.04	+82 30 40.1	18.93o			T08
C/2021 Q3	2021 08 28.250651	15 31 13.40	+82 30 37.9	19.22o			T08

C/2021 Q3	2021 08 28.256661	15 31 13.09	+82 30 34.6	19.26o			T08
C/2021 Q3	2021 08 28.268211	15 31 11.03	+82 30 28.6	18.96o			T08
C/2021 Q3	2021 08 28.83124	15 29 55.98	+82 25 30.0	19.0	R	K	L27
C/2021 Q3	2021 08 28.85297	15 29 53.24	+82 25 20.4	19.0	R	K	L27
C/2021 Q3	2021 08 28.860382	15 29 51.66	+82 25 16.4	18.8	G	K	587
C/2021 Q3	2021 08 28.863576	15 29 51.20	+82 25 14.3	19.0	G	K	587
C/2021 Q3	2021 08 28.864109	15 29 51.17	+82 25 14.3	18.6	G	K	587
C/2021 Q3	2021 08 28.87581	15 29 49.55	+82 25 09.3	19.6	V	K	C77
C/2021 Q3	2021 08 28.87834	15 29 49.35	+82 25 06.5	19.1	R	K	L27
C/2021 Q3	2021 08 28.881356	15 29 49.09	+82 25 04.8	19.0	G	K	K38
C/2021 Q3	2021 08 28.90007	15 29 46.86	+82 24 54.9	18.9	R	K	L27
C/2021 Q3	2021 08 28.90896	15 29 45.28	+82 24 49.9	19.2	V	K	C77
C/2021 Q3	2021 08 28.919949	15 29 43.79	+82 24 44.2	19.0	G	K	K38
C/2021 Q3	2021 08 28.92541	15 29 43.07	+82 24 41.5	18.9	R	K	L27
C/2021 Q3	2021 08 28.93435	15 29 41.71	+82 24 37.1	19.5	G	K	K83
C/2021 Q3	2021 08 28.942106	15 29 40.72	+82 24 32.1	19.2	G	K	K38
C/2021 Q3	2021 08 28.94240	15 29 40.85	+82 24 31.9	19.8	G	K	K83
C/2021 Q3	2021 08 28.94713	15 29 40.28	+82 24 29.5	19.0	R	K	L27
C/2021 Q3	2021 08 28.95046	15 29 39.72	+82 24 28.0	19.3	G	K	K83
C/2021 Q3	2021 08 29.17537	15 29 10.59	+82 22 29.9				32H06
C/2021 Q3	2021 08 29.17970	15 29 10.10	+82 22 27.4	18.9	G		32H06
C/2021 Q3	2021 08 29.790930	15 27 54.09	+82 17 05.9			K	595
C/2021 Q3	2021 08 29.798599	15 27 53.32	+82 17 02.6	19.3	G	K	595
C/2021 Q3	2021 08 29.802726	15 27 52.50	+82 16 59.6	19.2	G	K	L01
C/2021 Q3	2021 08 29.805833	15 27 52.30	+82 16 57.7	19.5	G	k	L01
C/2021 Q3	2021 08 29.808949	15 27 51.60	+82 16 56.0	19.6	G	K	L01
C/2021 Q3	2021 08 29.86820	15 27 44.34	+82 16 25.1	19.1	G	K	Z08
C/2021 Q3	2021 08 29.88050	15 27 42.93	+82 16 18.4	19.1	G	K	Z08
C/2021 Q3	2021 08 29.88354	15 27 42.39	+82 16 17.4	18.9	G	K	G18
C/2021 Q3	2021 08 29.899115	15 27 40.73	+82 16 09.1	18.9	V	K	L74
C/2021 Q3	2021 08 29.90211	15 27 40.52	+82 16 07.7	18.3	G	K	G18
C/2021 Q3	2021 08 29.91573	15 27 38.97	+82 16 00.5	19.3	G		09G40
C/2021 Q3	2021 08 29.918275	15 27 38.16	+82 15 57.6	19.4	V	K	L74
C/2021 Q3	2021 08 29.93273	15 27 36.98	+82 15 51.0	19.1	G		09G40
C/2021 Q3	2021 08 29.938502	15 27 35.70	+82 15 47.8	19.3	V	K	L74
C/2021 Q3	2021 08 30.825693	15 25 52.82	+82 07 59.7	18.6	r	K	L34
C/2021 Q3	2021 08 30.83161	15 25 51.76	+82 07 57.0	19.2	T	K	A77
C/2021 Q3	2021 08 30.84808	15 25 49.82	+82 07 48.4	19.3	T	K	A77
C/2021 Q3	2021 08 30.855135	15 25 49.19	+82 07 44.4	18.0	r	K	L34
C/2021 Q3	2021 08 30.861209	15 25 48.72	+82 07 41.5	18.5	r	K	L34
C/2021 Q3	2021 08 30.86287	15 25 48.34	+82 07 40.6	19.4	T	K	A77
C/2021 Q3	2021 08 30.86549	15 25 48.22	+82 07 39.9	19.1	T	K	J22
C/2021 Q3	2021 08 30.89982	15 25 44.38	+82 07 21.2	19.2	T	K	J22
C/2021 Q3	2021 08 30.93497	15 25 40.25	+82 07 02.7	19.1	T	K	J22
C/2021 Q3	2021 08 31.012799	15 25 30.73	+82 06 22.5	19.1	T	K	104
C/2021 Q3	2021 08 31.033364	15 25 29.51	+82 06 09.1	19.3	T	K	104
C/2021 Q3	2021 08 31.111698	15 25 21.07	+82 05 29.8	19.5	V	K	858
C/2021 Q3	2021 08 31.115796	15 25 20.48	+82 05 27.7	19.6	V	K	858
C/2021 Q3	2021 08 31.119894	15 25 19.99	+82 05 25.4	19.7	V	K	858
C/2021 Q3	2021 09 01.81038	15 22 26.91	+81 50 35.5	18.8	T	K	215
C/2021 Q3	2021 09 01.81296	15 22 26.63	+81 50 34.2	18.9	T	K	215
C/2021 Q3	2021 09 01.81555	15 22 26.36	+81 50 33.0	19.0	T	K	215
C/2021 Q3	2021 09 01.87882	15 22 20.24	+81 49 58.8	19.4	T		K77
C/2021 Q3	2021 09 01.88588	15 22 19.37	+81 49 55.3	19.4	T		K77
C/2021 Q3	2021 09 01.89294	15 22 18.90	+81 49 51.8	19.4	T		K77
C/2021 Q3	2021 09 02.84356	15 20 52.96	+81 41 33.2	19.2	T	K	A71
C/2021 Q3	2021 09 02.84905	15 20 52.44	+81 41 30.3	19.2	T	K	A71
C/2021 Q3	2021 09 02.85454	15 20 52.02	+81 41 27.2	19.3	T	K	A71
C/2021 Q3	2021 09 04.91478	15 18 07.60	+81 23 33.7	18.6	T	K	Z10
C/2021 Q3	2021 09 04.92013	15 18 07.06	+81 23 29.7	19.6	T	K	Z10
C/2021 Q3	2021 09 05.81691	15 17 04.93	+81 15 46.3	19.9	T	K	K19
C/2021 Q3	2021 09 05.82379	15 17 04.35	+81 15 42.6	19.9	T	K	K19
C/2021 Q3	2021 09 06.97964	15 15 51.45	+81 05 46.5	20.4	T	K	970
C/2021 Q3	2021 09 06.99284	15 15 51.11	+81 05 39.3	19.2	T	K	970
C/2021 Q3	2021 09 07.88198	15 15 00.80	+80 58 03.1	19.2	T	K	B96
C/2021 Q3	2021 09 07.88938	15 15 00.00	+80 58 02.9	19.6	T	K	B96
C/2021 Q3	2021 09 08.86620	15 14 10.66	+80 49 43.7	18.6	T	K	C23
C/2021 Q3	2021 09 08.87125	15 14 10.45	+80 49 42.9	18.2	T	K	C23
C/2021 Q3	2021 09 08.87558	15 14 10.85	+80 49 40.1	18.5	T	K	C23
C/2021 Q3	2021 09 17.79958	15 10 06.75	+79 37 30.7	19.0	N	K	A77
C/2021 Q3	2021 09 17.80728	15 10 06.71	+79 37 27.2	19.1	N	K	A77
C/2021 Q3	2021 09 17.81499	15 10 06.62	+79 37 23.7	19.1	N	K	A77

C/2021 Q4 (Fuls)

C/2021 Q4	2020 04 27.571594	18 06 04.574	+51 06 54.27	22.24G		K	F52
C/2021 Q4	2020 05 19.604027	18 01 34.972	+52 36 16.99	22.39G			F51
C/2021 Q4	2020 05 20.567197	18 01 18.102	+52 39 23.67	21.92G		K	F52
C/2021 Q4	2020 05 21.616255	18 00 59.172	+52 42 41.34	22.25G		K	F51
C/2021 Q4	2020 05 30.481108	17 58 03.941	+53 06 42.40	22.34G		K	F52
C/2021 Q4	2020 06 14.509287	17 52 19.867	+53 30 29.15	23.09G			F51
C/2021 Q4	2020 06 14.520959	17 52 19.546	+53 30 29.37	22.45G			F51
C/2021 Q4	2020 06 29.415019	17 46 18.607	+53 31 27.10	21.98G			F51
C/2021 Q4	2020 06 29.424199	17 46 18.399	+53 31 26.91	22.74G			F51
C/2021 Q4	2020 06 29.433307	17 46 18.181	+53 31 26.36	22.27G			F51
C/2021 Q4	2020 06 29.442395	17 46 17.917	+53 31 25.81	20.91G			F51
C/2021 Q4	2020 07 01.464773	17 45 30.093	+53 29 47.98	22.16G		K	F51
C/2021 Q4	2020 08 01.490934	17 35 41.058	+52 16 16.37	21.86G		K	F51
C/2021 Q4	2020 08 18.320965	17 33 23.976	+51 05 13.67	21.42G			F52
C/2021 Q4	2020 08 18.332690	17 33 23.886	+51 05 10.36	21.23G			F52
C/2021 Q4	2020 08 18.344429	17 33 23.891	+51 05 07.01	21.14G			F52
C/2021 Q4	2020 08 18.356178	17 33 23.815	+51 05 03.78	22.19G			F52
C/2021 Q4	2020 09 23.243287	17 37 44.983	+47 57 28.88	21.80G			F51
C/2021 Q4	2020 09 23.254405	17 37 45.134	+47 57 25.21	21.93G			F51
C/2021 Q4	2020 09 23.267264	17 37 45.373	+47 57 21.07	22.85G			F51
C/2021 Q4	2020 10 26.240434	17 52 04.581	+45 09 46.34	21.94G		K	F51
C/2021 Q4	2021 06 17.37183	19 42 11.43	+52 43 27.1				G96
C/2021 Q4	2021 06 17.37625	19 42 11.42	+52 43 27.0				G96
C/2021 Q4	2021 06 17.38260	19 42 11.35	+52 43 28.4				G96
C/2021 Q4	2021 07 25.510255	19 27 09.612	+52 40 42.39	20.54G			F51
C/2021 Q4	2021 07 25.521988	19 27 09.340	+52 40 40.90	21.00G			F51
C/2021 Q4	2021 07 25.533918	19 27 09.067	+52 40 39.06	21.13G			F51
C/2021 Q4	2021 08 26.298578	19 17 09.52	+50 31 46.5	20.07G			G96
C/2021 Q4	2021 08 26.303857	19 17 09.47	+50 31 45.0	20.28G			G96
C/2021 Q4	2021 08 26.309135	19 17 09.37	+50 31 42.9	20.37G			G96
C/2021 Q4	2021 08 26.314423	19 17 09.32	+50 31 41.3	20.14G			G96
C/2021 Q4	2021 08 26.336639	19 17 08.96	+50 31 33.8	20.27G		m	G96

C/2021 Q4	2021 08 26.350065	19 17 08.93	+50 31 28.8	20.49G	m	G96
C/2021 Q4	2021 08 26.364059	19 17 08.78	+50 31 24.2	20.89G	m	G96
C/2021 Q4	2021 08 27.246327	19 16 59.01	+50 26 26.6	20.22G	H	G96
C/2021 Q4	2021 08 27.254475	19 16 58.90	+50 26 23.4		H	G96
C/2021 Q4	2021 08 27.81406	19 16 53.05	+50 23 16.4	20.5 R	K	C82
C/2021 Q4	2021 08 27.83117	19 16 52.64	+50 23 06.0	19.9 R	K	C82
C/2021 Q4	2021 08 27.86721	19 16 52.40	+50 22 54.5	19.5 G	K	J57
C/2021 Q4	2021 08 27.89128	19 16 52.05	+50 22 46.6	19.5 G	K	J57
C/2021 Q4	2021 08 27.907330	19 16 51.87	+50 22 40.0	20.6 G	K	L01
C/2021 Q4	2021 08 27.91242	19 16 51.89	+50 22 38.8	20.2 G	K	J57
C/2021 Q4	2021 08 27.914763	19 16 51.87	+50 22 38.7	20.7 G	K	L01
C/2021 Q4	2021 08 27.91622	19 16 51.87	+50 22 37.4	20.3 R	K	C10
C/2021 Q4	2021 08 27.920499	19 16 51.78	+50 22 36.6	20.5 G	K	L01
C/2021 Q4	2021 08 27.93949	19 16 51.60	+50 22 28.8	19.9 R	K	C10
C/2021 Q4	2021 08 27.95096	19 16 51.51	+50 22 25.4	19.8 G	K	Z41
C/2021 Q4	2021 08 27.95648	19 16 51.41	+50 22 24.6	19.5 G	K	Z41
C/2021 Q4	2021 08 27.96595	19 16 51.30	+50 22 20.1	20.2 R	K	C10
C/2021 Q4	2021 08 27.98922	19 16 51.07	+50 22 11.8	19.9 R	K	C10
C/2021 Q4	2021 08 28.01599	19 16 50.80	+50 22 02.3	20.3 R	K	C10
C/2021 Q4	2021 08 28.02962	19 16 50.68	+50 21 58.0	19.5 G	K	Z41
C/2021 Q4	2021 08 28.03947	19 16 50.63	+50 21 54.5	20.3 R	K	C10
C/2021 Q4	2021 08 28.06281	19 16 50.31	+50 21 46.7	20.1 R	K	C10
C/2021 Q4	2021 08 28.08616	19 16 49.80	+50 21 35.2	19.9 R	K	C10
C/2021 Q4	2021 08 28.38362	19 16 47.03	+50 19 56.7	19.3 R	02	F65
C/2021 Q4	2021 08 28.43977	19 16 46.41	+50 19 36.9	18.8 R	02	F65
C/2021 Q4	2021 08 28.842002	19 16 42.39	+50 17 17.3	19.6 G	K	587
C/2021 Q4	2021 08 28.844130	19 16 42.46	+50 17 16.8	19.4 G	K	587
C/2021 Q4	2021 08 28.98078	19 16 41.00	+50 16 28.9		K	204
C/2021 Q4	2021 08 28.99702	19 16 40.78	+50 16 23.1		K	204
C/2021 Q4	2021 08 29.01326	19 16 40.64	+50 16 17.5	20.4 G	K	204
C/2021 Q4	2021 08 29.01565	19 16 40.64	+50 16 16.6	20.2 R	K	L27
C/2021 Q4	2021 08 29.02772	19 16 40.43	+50 16 12.4	19.9 R	K	L27
C/2021 Q4	2021 08 29.06274	19 16 40.04	+50 16 01.0	20.0 R	K	L27
C/2021 Q4	2021 08 29.18648	19 16 38.97	+50 15 17.5			32H06
C/2021 Q4	2021 08 29.19344	19 16 38.94	+50 15 15.1			32H06
C/2021 Q4	2021 08 29.20040	19 16 38.87	+50 15 12.6	20.1 G		32H06
C/2021 Q4	2021 08 29.392314	19 16 37.067	+50 14 05.85	20.89i		F52
C/2021 Q4	2021 08 29.403796	19 16 36.935	+50 14 01.45	20.33i		F52
C/2021 Q4	2021 08 29.415264	19 16 36.782	+50 13 57.51	20.11i		F52
C/2021 Q4	2021 08 29.426730	19 16 36.661	+50 13 53.37	20.45i		F52
C/2021 Q4	2021 08 29.81019	19 16 33.06	+50 11 38.5	20.0 R	K	157
C/2021 Q4	2021 08 29.82646	19 16 32.96	+50 11 33.2	20.0 R	K	157
C/2021 Q4	2021 08 29.91544	19 16 32.05	+50 11 01.8	19.5 G	K	Z08
C/2021 Q4	2021 08 29.93939	19 16 31.87	+50 10 53.1	19.3 G	K	Z08
C/2021 Q4	2021 08 30.80510	19 16 24.03	+50 05 46.5	20.1 V	K	C82
C/2021 Q4	2021 08 30.82120	19 16 23.88	+50 05 41.3	19.5 V	K	C82
C/2021 Q4	2021 08 30.88037	19 16 23.38	+50 05 19.4	20.3 R	K	L27
C/2021 Q4	2021 08 30.88869	19 16 23.31	+50 05 16.3	20.5 R	K	L27
C/2021 Q4	2021 08 30.888830	19 16 23.34	+50 05 16.9	19.9 V	K	L74
C/2021 Q4	2021 08 30.925727	19 16 22.97	+50 05 02.9	18.6 V	K	L74
C/2021 Q4	2021 08 30.92778	19 16 23.06	+50 05 03.6	20.3 R	K	L27
C/2021 Q4	2021 08 31.81408	19 16 15.68	+49 59 44.4	20.0 T	K	A77
C/2021 Q4	2021 08 31.84085	19 16 15.33	+49 59 34.6	19.5 T	K	A77
C/2021 Q4	2021 08 31.93660	19 16 14.55	+49 58 59.7	20.0 T		09G40
C/2021 Q4	2021 08 31.97956	19 16 14.05	+49 58 44.8	20.0 T		09G40
C/2021 Q4	2021 09 01.83600	19 16 07.49	+49 53 35.7	18.7 T	K	215
C/2021 Q4	2021 09 01.83858	19 16 07.49	+49 53 35.4	18.9 T	K	215
C/2021 Q4	2021 09 01.84116	19 16 07.50	+49 53 35.6	19.0 T	K	215
C/2021 Q4	2021 09 01.94369	19 16 06.73	+49 52 53.2	19.7 T		K77
C/2021 Q4	2021 09 01.94722	19 16 06.75	+49 52 50.3	19.7 T		K77
C/2021 Q4	2021 09 01.95075	19 16 06.71	+49 52 49.5	20.0 T		K77
C/2021 Q4	2021 09 02.86366	19 16 00.14	+49 47 15.0	19.9 T	K	A71
C/2021 Q4	2021 09 02.87007	19 16 00.07	+49 47 12.0	20.5 T	K	A71
C/2021 Q4	2021 09 02.87648	19 16 00.07	+49 47 10.1	20.6 T	K	A71
C/2021 Q4	2021 09 04.90690	19 15 47.32	+49 34 31.5	20.7 T	K	K77
C/2021 Q4	2021 09 04.94411	19 15 47.16	+49 34 17.6	20.5 T	K	K77
C/2021 Q4	2021 09 08.88815	19 15 30.10	+49 08 58.7	20.0 N	K	A77
C/2021 Q4	2021 09 08.89449	19 15 29.93	+49 08 56.0	20.3 N	K	A77
C/2021 Q4	2021 09 13.238292	19 15 23.066	+48 40 03.32	21.03w		F52
C/2021 Q4	2021 09 13.248593	19 15 23.052	+48 39 58.86	21.29w		F52
C/2021 Q4	2021 09 13.258912	19 15 23.046	+48 39 54.91	20.92w		F52
C/2021 Q4	2021 09 13.269221	19 15 23.047	+48 39 50.80	20.96w		F52

P/2021 Q5 (ATLAS)

P/2021 Q5	2021 08 29.606778	06 50 43.47	+22 54 23.5	17.59o		T05
P/2021 Q5	2021 08 29.612274	06 50 44.73	+22 54 19.6	17.34o		T05
P/2021 Q5	2021 08 29.628845	06 50 48.62	+22 54 06.4	17.07o		T05
P/2021 Q5	2021 08 29.636834	06 50 50.50	+22 54 00.0	17.73o		T05
P/2021 Q5	2021 08 30.495900	06 54 12.57	+22 42 30.9	18.01r		I41
P/2021 Q5	2021 08 30.500940	06 54 13.74	+22 42 27.0	17.98r		I41
P/2021 Q5	2021 08 30.503459	06 54 14.31	+22 42 25.1	17.99r		I41
P/2021 Q5	2021 08 30.505980	06 54 14.92	+22 42 22.9	18.05r		I41
P/2021 Q5	2021 08 30.797489	06 55 23.247	+22 38 31.74	17.5 G	K	Q63
P/2021 Q5	2021 08 30.800394	06 55 23.930	+22 38 29.26	17.5 G	K	Q63
P/2021 Q5	2021 08 30.803275	06 55 24.595	+22 38 26.96	17.8 G	K	Q63
P/2021 Q5	2021 08 31.082145	06 56 29.96	+22 34 31.5	17.8 G		L01
P/2021 Q5	2021 08 31.082932	06 56 30.11	+22 34 30.2	17.8 G		L01
P/2021 Q5	2021 08 31.084492	06 56 30.51	+22 34 29.3	17.7 G		L01
P/2021 Q5	2021 08 31.085266	06 56 30.71	+22 34 28.6	17.7 G		L01
P/2021 Q5	2021 08 31.088388	06 56 31.43	+22 34 25.7	17.8 G		L01
P/2021 Q5	2021 08 31.21195	06 57 00.28	+22 32 46.1	17.2 G		Z17
P/2021 Q5	2021 08 31.21421	06 57 00.94	+22 32 44.1	17.4 G		Z17
P/2021 Q5	2021 09 01.08839	07 00 24.30	+22 20 35.1	17.1 R	K	C10
P/2021 Q5	2021 09 01.10909	07 00 29.07	+22 20 15.4	17.1 R	K	C10
P/2021 Q5	2021 09 01.11772	07 00 31.11	+22 20 09.3	17.0 V	K	L06
P/2021 Q5	2021 09 01.11945	07 00 31.50	+22 20 07.8	17.0 R	K	C10
P/2021 Q5	2021 09 01.12814	07 00 33.55	+22 20 00.7	17.1 V	K	L06
P/2021 Q5	2021 09 01.12980	07 00 33.88	+22 19 59.1	17.2 R	K	C10
P/2021 Q5	2021 09 01.130816	07 00 34.17	+22 19 58.4	17.2 G	K	L06
P/2021 Q5	2021 09 01.137963	07 00 35.86	+22 19 51.9	17.4 G	K	L06
P/2021 Q5	2021 09 01.14596	07 00 37.67	+22 19 45.5	17.6 G	K	204
P/2021 Q5	2021 09 01.14948	07 00 38.47	+22 19 42.8		K	204
P/2021 Q5	2021 09 01.15051	07 00 38.67	+22 19 41.7	17.1 R	K	C10
P/2021 Q5	2021 09 01.15258	07 00 39.14	+22 19 40.4	17.2 R	K	C10
P/2021 Q5	2021 09 01.15300	07 00 39.30	+22 19 39.8		K	204
P/2021 Q5	2021 09 01.17948	07 00 45.53	+22 19 18.3	17.0 G		02G40

P/2021 Q5	2021 09 01.18618	07 00 47.08	+22 19 12.9	17.2	G	02G40
P/2021 Q5	2021 09 01.19309	07 00 48.69	+22 19 07.0	17.1	G	02G40
P/2021 Q5	2021 09 01.21539	07 00 53.82	+22 18 48.2	17.7	G	09G40
P/2021 Q5	2021 09 01.22442	07 00 55.96	+22 18 40.8	18.1	G	10G40
P/2021 Q5	2021 09 01.23801	07 00 59.06	+22 18 29.2	17.2	G	09G40
P/2021 Q5	2021 09 01.23824	07 00 59.15	+22 18 29.5	18.3	G	10G40
P/2021 Q5	2021 09 02.12225	07 04 23.57	+22 05 51.9	17.1	R	K C10
P/2021 Q5	2021 09 02.13772	07 04 27.12	+22 05 38.6	17.1	R	K C10
P/2021 Q5	2021 09 02.14907	07 04 29.72	+22 05 28.5	17.2	R	K C10
P/2021 Q5	2021 09 03.08294	07 08 04.34	+21 51 52.9	17.3	G	K A71
P/2021 Q5	2021 09 03.08671	07 08 05.19	+21 51 50.0	17.2	G	K A71
P/2021 Q5	2021 09 03.09047	07 08 06.08	+21 51 46.3	17.3	G	K A71
P/2021 Q5	2021 09 03.09424	07 08 06.97	+21 51 43.3	17.5	G	K A71
P/2021 Q5	2021 09 03.111819	07 08 10.99	+21 51 27.6	17.7	G	K K62
P/2021 Q5	2021 09 03.114134	07 08 11.56	+21 51 26.4	18.2	G	K 104
P/2021 Q5	2021 09 03.116615	07 08 12.13	+21 51 23.4	17.9	G	K K62
P/2021 Q5	2021 09 03.122149	07 08 13.37	+21 51 18.3	17.5	G	K K62
P/2021 Q5	2021 09 03.125115	07 08 14.05	+21 51 16.6	18.2	G	K 104
P/2021 Q5	2021 09 03.13260	07 08 15.77	+21 51 09.5	19.1	V	01 033
P/2021 Q5	2021 09 03.13289	07 08 15.82	+21 51 09.2	19.4	V	01 033
P/2021 Q5	2021 09 03.13317	07 08 15.88	+21 51 09.0	19.3	V	01 033
P/2021 Q5	2021 09 03.13350	07 08 15.96	+21 51 08.8	19.2	V	01 033
P/2021 Q5	2021 09 03.13409	07 08 16.09	+21 51 08.2	19.3	V	01 033
P/2021 Q5	2021 09 03.13500	07 08 16.33	+21 51 08.1	17.1	G	K G18
P/2021 Q5	2021 09 03.14960	07 08 19.71	+21 50 55.7	16.9	G	K G18
P/2021 Q5	2021 09 03.15307	07 08 20.43	+21 50 51.9	17.1	R	K C10
P/2021 Q5	2021 09 03.15781	07 08 21.50	+21 50 47.5	17.1	R	K C10
P/2021 Q5	2021 09 03.16255	07 08 22.55	+21 50 43.3	17.0	R	K C10
P/2021 Q5	2021 09 03.20545	07 08 32.53	+21 50 06.9	17.8	G	09G40
P/2021 Q5	2021 09 03.21667	07 08 35.08	+21 49 56.9	17.9	G	09G40
P/2021 Q5	2021 09 03.22852	07 08 37.75	+21 49 47.2	17.8	G	09G40
P/2021 Q5	2021 09 04.09523	07 11 55.55	+21 36 50.0	16.8	G	K K74
P/2021 Q5	2021 09 04.09892	07 11 56.39	+21 36 47.0	16.8	G	K K74
P/2021 Q5	2021 09 04.10257	07 11 57.23	+21 36 43.6	16.9	G	K K74
P/2021 Q5	2021 09 04.10666	07 11 58.12	+21 36 40.2	16.7	G	K K74
P/2021 Q5	2021 09 04.11046	07 11 58.99	+21 36 36.8	16.8	G	K K74
P/2021 Q5	2021 09 04.12804	07 12 02.98	+21 36 21.0	19.1	V	01 033
P/2021 Q5	2021 09 04.12832	07 12 03.05	+21 36 20.8	19.2	V	01 033
P/2021 Q5	2021 09 04.12861	07 12 03.12	+21 36 20.5	19.2	V	01 033
P/2021 Q5	2021 09 04.12895	07 12 03.20	+21 36 20.1	19.2	V	01 033
P/2021 Q5	2021 09 04.17008	07 12 12.52	+21 35 44.9	16.8	G	20 I89
P/2021 Q5	2021 09 04.17256	07 12 13.20	+21 35 41.5	17.3	G	20 I89
P/2021 Q5	2021 09 04.17500	07 12 13.63	+21 35 40.1	17.0	G	20 I89
P/2021 Q5	2021 09 04.17747	07 12 14.16	+21 35 37.5	17.3	G	20 I89
P/2021 Q5	2021 09 04.17993	07 12 14.70	+21 35 35.8	15.5	G	20 I89
P/2021 Q5	2021 09 05.07521	07 15 37.61	+21 21 58.9	17.7	G	K A71
P/2021 Q5	2021 09 05.07962	07 15 38.62	+21 21 54.9	17.6	G	K A71
P/2021 Q5	2021 09 05.08330	07 15 39.43	+21 21 52.0	17.5	G	K A71
P/2021 Q5	2021 09 05.091900	07 15 41.24	+21 21 43.4	16.4	G	K 595
P/2021 Q5	2021 09 05.098809	07 15 42.82	+21 21 37.0	16.5	G	K 595
P/2021 Q5	2021 09 05.104189	07 15 44.06	+21 21 33.0	16.5	G	K 595
P/2021 Q5	2021 09 05.12856	07 15 49.78	+21 21 10.8	16.9	V	K A77
P/2021 Q5	2021 09 05.13450	07 15 50.96	+21 21 04.6	16.9	R	K 215
P/2021 Q5	2021 09 05.13579	07 15 51.27	+21 21 03.3	17.1	R	K 215
P/2021 Q5	2021 09 05.13708	07 15 51.58	+21 21 02.0	17.2	R	K 215
P/2021 Q5	2021 09 05.14125	07 15 52.59	+21 20 58.7	16.8	V	K A77
P/2021 Q5	2021 09 05.14450	07 15 53.32	+21 20 55.5	15.2	R	K A77
P/2021 Q5	2021 09 05.325816	07 16 34.21	+21 18 16.1	16.8	G	K Y00
P/2021 Q5	2021 09 05.333773	07 16 35.99	+21 18 08.1	17.1	G	K Y00
P/2021 Q5	2021 09 05.341736	07 16 37.79	+21 17 59.9	17.5	G	K Y00
P/2021 Q5	2021 09 06.11312	07 19 31.17	+21 05 55.6	16.7	N	K 157
P/2021 Q5	2021 09 06.11902	07 19 32.49	+21 05 50.5	16.3	N	K 157
P/2021 Q5	2021 09 06.12492	07 19 33.80	+21 05 45.4	17.0	N	K 157
P/2021 Q5	2021 09 06.14631	07 19 38.52	+21 05 24.7	17.6	T	K 970
P/2021 Q5	2021 09 06.15456	07 19 40.48	+21 05 16.1	17.5	T	K 970
P/2021 Q5	2021 09 07.14641	07 23 21.85	+20 49 37.6	17.3	T	K 970
P/2021 Q5	2021 09 07.15795	07 23 24.39	+20 49 26.2	16.8	T	K 970
P/2021 Q5	2021 09 07.44416	07 24 28.13	+20 44 54.7	17.5	T	64H06
P/2021 Q5	2021 09 07.44601	07 24 28.42	+20 44 52.8	17.7	T	64H06
P/2021 Q5	2021 09 07.44786	07 24 28.79	+20 44 49.3	16.9	T	64H06
P/2021 Q5	2021 09 07.45063	07 24 29.42	+20 44 48.3	17.7	T	64H06
P/2021 Q5	2021 09 07.45243	07 24 29.86	+20 44 46.0	18.0	T	64H06
P/2021 Q5	2021 09 08.14032	07 27 01.99	+20 33 39.7	17.0	T	K I81
P/2021 Q5	2021 09 08.14243	07 27 02.36	+20 33 38.0	17.0	T	K I81
P/2021 Q5	2021 09 08.14454	07 27 02.82	+20 33 36.1	17.0	T	K I81
P/2021 Q5	2021 09 08.457991	07 28 11.83	+20 28 34.0	16.40G		703
P/2021 Q5	2021 09 08.462925	07 28 13.07	+20 28 28.0	16.63G		703
P/2021 Q5	2021 09 08.467872	07 28 14.10	+20 28 23.5	16.50G		703
P/2021 Q5	2021 09 08.472811	07 28 15.22	+20 28 18.4	16.56G		703
P/2021 Q5	2021 09 09.06242	07 30 24.76	+20 18 38.7	17.1	T	K A71
P/2021 Q5	2021 09 09.07248	07 30 26.96	+20 18 28.1	17.0	T	K A71
P/2021 Q5	2021 09 09.73109	07 32 50.86	+20 07 37.1	14.3	T	349
P/2021 Q5	2021 09 09.73973	07 32 52.74	+20 07 28.3	14.5	T	Q11
P/2021 Q5	2021 09 09.74057	07 32 52.88	+20 07 27.2			349
P/2021 Q5	2021 09 09.75317	07 32 55.66	+20 07 15.2			Q11
P/2021 Q5	2021 09 09.76024	07 32 57.20	+20 07 08.2			Q11
P/2021 Q5	2021 09 10.13814	07 34 19.32	+20 00 49.5	17.0	T	K G18
P/2021 Q5	2021 09 10.15129	07 34 22.24	+20 00 36.6	17.1	T	K G18
P/2021 Q5	2021 09 10.607798	07 36 01.20	+19 52 59.9	16.38c		T05
P/2021 Q5	2021 09 10.624587	07 36 04.83	+19 52 43.0	17.02c		T05
P/2021 Q5	2021 09 10.630099	07 36 05.97	+19 52 37.5	16.66c		T05
P/2021 Q5	2021 09 10.637022	07 36 07.54	+19 52 30.6	17.60c		T05
P/2021 Q5	2021 09 11.15111	07 37 58.56	+19 43 46.7	17.5	T	A77
P/2021 Q5	2021 09 11.15459	07 37 59.32	+19 43 43.2	17.5	T	A77
P/2021 Q5	2021 09 11.16595	07 38 01.75	+19 43 32.8	17.7	T	A77
P/2021 Q5	2021 09 11.16920	07 38 02.39	+19 43 29.1	17.6	T	A77
P/2021 Q5	2021 09 12.15401	07 41 33.62	+19 26 40.2	14.7	T	A77
P/2021 Q5	2021 09 12.15911	07 41 34.70	+19 26 35.6	16.4	N	J01
P/2021 Q5	2021 09 12.15968	07 41 34.80	+19 26 34.8	17.1	T	A77
P/2021 Q5	2021 09 12.16535	07 41 35.99	+19 26 29.0	17.1	T	A77
P/2021 Q5	2021 09 12.17513	07 41 38.04	+19 26 19.4	16.7	N	J01
P/2021 Q5	2021 09 12.17971	07 41 38.95	+19 26 13.8	16.5	N	J01
P/2021 Q5	2021 09 12.18200	07 41 39.54	+19 26 11.5	16.6	N	J01
P/2021 Q5	2021 09 12.18238	07 41 39.62	+19 26 11.4	17.4	T	K Z10
P/2021 Q5	2021 09 12.18938	07 41 41.19	+19 26 04.4	17.3	T	K Z10
P/2021 Q5	2021 09 12.608380	07 43 10.36	+19 18 53.5	16.59o		T08

P/2021 Q5	2021 09 12.610681	07 43 10.91	+19 18 51.3	16.23o		T08
P/2021 Q5	2021 09 12.612524	07 43 11.27	+19 18 49.2	16.39o		T08
P/2021 Q5	2021 09 12.616762	07 43 12.18	+19 18 45.0	16.35o		T08
P/2021 Q5	2021 09 12.623708	07 43 13.67	+19 18 37.4	16.73o		T08
P/2021 Q5	2021 09 12.633033	07 43 15.61	+19 18 27.9	16.51o		T08
P/2021 Q5	2021 09 12.633493	07 43 15.73	+19 18 27.5	17.38o		T08
P/2021 Q5	2021 09 13.22598	07 45 21.47	+19 08 09.4	16.9	T	09G40
P/2021 Q5	2021 09 13.23392	07 45 23.18	+19 08 01.4	17.1	T	09G40
P/2021 Q5	2021 09 15.23448	07 52 22.89	+18 32 46.0	16.6	T	10G40
P/2021 Q5	2021 09 15.23784	07 52 23.63	+18 32 42.4	16.5	T	10G40
P/2021 Q5	2021 09 15.24490	07 52 25.14	+18 32 35.6	16.6	T	10G40
P/2021 Q5	2021 09 16.481983	07 56 41.06	+18 10 21.9	16.40G		703
P/2021 Q5	2021 09 16.489316	07 56 42.53	+18 10 14.6	16.25G		703
P/2021 Q5	2021 09 16.495058	07 56 43.70	+18 10 08.6	16.20G		703
P/2021 Q5	2021 09 16.500802	07 56 44.88	+18 10 02.0	16.15G		703
P/2021 Q5	2021 09 19.16294	08 05 46.20	+17 21 16.6	16.2	T	A77
P/2021 Q5	2021 09 19.16896	08 05 47.45	+17 21 10.0	16.9	T	A77
P/2021 Q5	2021 09 19.17574	08 05 48.82	+17 21 02.6	14.1	T	A77

C/2021 Q6 (PANSTARRS)

C/2021 Q6	2021 01 02.290492	02 12 14.021	+33 32 26.08	22.12G	K	F51
C/2021 Q6	2021 01 03.350781	02 11 52.705	+33 28 55.38	21.92G	K	F51
C/2021 Q6	2021 01 09.267464	02 10 03.943	+33 09 47.15	22.47G		F51
C/2021 Q6	2021 01 09.279694	02 10 03.732	+33 09 44.78	21.86G		F51
C/2021 Q6	2021 01 09.291860	02 10 03.526	+33 09 42.36	21.96G		F51
C/2021 Q6	2021 01 09.304049	02 10 03.306	+33 09 40.00	22.35G		F51
C/2021 Q6	2021 01 30.248013	02 05 55.372	+32 10 22.52	21.89G	K	F51
C/2021 Q6	2021 01 31.303727	02 05 48.289	+32 07 47.90	22.13G		F51
C/2021 Q6	2021 01 31.316076	02 05 48.248	+32 07 46.59	21.98G		F51
C/2021 Q6	2021 07 28.603848	02 25 08.319	+33 19 41.99	20.87G		F51
C/2021 Q6	2021 07 28.614319	02 25 08.232	+33 19 42.82	21.33G		F51
C/2021 Q6	2021 08 19.469712	02 20 04.755	+33 38 19.84	20.84G		F51
C/2021 Q6	2021 08 19.480839	02 20 04.530	+33 38 20.38	21.79G		F51
C/2021 Q6	2021 08 19.492000	02 20 04.312	+33 38 20.76	21.51G		F51
C/2021 Q6	2021 08 19.503155	02 20 04.099	+33 38 20.74	21.31G		F51
C/2021 Q6	2021 08 20.517804	02 19 44.226	+33 38 48.62	21.11G		F51
C/2021 Q6	2021 08 20.530264	02 19 43.960	+33 38 48.63	21.61G		F51
C/2021 Q6	2021 08 20.542715	02 19 43.713	+33 38 48.89	21.30G		F51
C/2021 Q6	2021 08 20.555378	02 19 43.458	+33 38 49.41	21.54G		F51
C/2021 Q6	2021 08 20.636970	02 19 41.825	+33 38 51.28	20.46G		F51
C/2021 Q6	2021 08 22.519587	02 19 03.479	+33 39 34.77	22.25z		F51
C/2021 Q6	2021 08 22.527225	02 19 03.306	+33 39 34.60	22.19z		F51
C/2021 Q6	2021 08 22.534860	02 19 03.164	+33 39 34.87	21.97z		F51
C/2021 Q6	2021 08 22.543421	02 19 02.982	+33 39 35.00	22.16z		F51
C/2021 Q6	2021 08 23.589470	02 18 40.875	+33 39 55.00	21.18G		F51
C/2021 Q6	2021 08 23.599616	02 18 40.650	+33 39 55.23	20.86G		F51
C/2021 Q6	2021 08 23.610157	02 18 40.424	+33 39 55.29	20.68G		F51
C/2021 Q6	2021 08 23.619623	02 18 40.238	+33 39 55.55	20.81G		F51
C/2021 Q6	2021 08 23.639170	02 18 39.832	+33 39 56.09	22.45G		F51
C/2021 Q6	2021 08 24.613316	02 18 18.703	+33 40 11.87	20.78G		F51
C/2021 Q6	2021 08 24.614484	02 18 18.695	+33 40 11.97	20.96G		F51
C/2021 Q6	2021 08 24.636402	02 18 18.198	+33 40 12.13	22.03G		F51
C/2021 Q6	2021 08 25.603975	02 17 56.776	+33 40 25.18	20.90G		F51
C/2021 Q6	2021 08 25.605138	02 17 56.755	+33 40 25.22	20.80G		F51
C/2021 Q6	2021 09 03.411596	02 14 20.54	+33 40 20.7	20.50G		G96
C/2021 Q6	2021 09 03.416780	02 14 20.40	+33 40 20.7	20.67G		G96
C/2021 Q6	2021 09 03.421959	02 14 20.25	+33 40 20.8	21.08G		G96
C/2021 Q6	2021 09 03.427142	02 14 20.10	+33 40 20.1	20.75G		G96
C/2021 Q6	2021 09 03.457529	02 14 19.318	+33 40 20.11	20.64G		28 568
C/2021 Q6	2021 09 03.459087	02 14 19.276	+33 40 20.08	20.59G		28 568
C/2021 Q6	2021 09 03.460642	02 14 19.236	+33 40 20.09	20.62G		28 568
C/2021 Q6	2021 09 05.552991	02 13 22.261	+33 39 43.60	21.57w		F51
C/2021 Q6	2021 09 05.559993	02 13 22.033	+33 39 43.38	21.50w		F51
C/2021 Q6	2021 09 05.567308	02 13 21.858	+33 39 42.95	21.44w		F51
C/2021 Q6	2021 09 05.574547	02 13 21.636	+33 39 43.01	21.44w		F51
C/2021 Q6	2021 09 07.047493	02 12 40.36	+33 39 08.5	20.9	G	K L01
C/2021 Q6	2021 09 07.049723	02 12 40.26	+33 39 07.5	20.9	G	K L01
C/2021 Q6	2021 09 07.052200	02 12 40.19	+33 39 07.8	20.9	G	K L01
C/2021 Q6	2021 09 15.413108	02 08 27.02	+33 33 28.9	20.60G		G96
C/2021 Q6	2021 09 15.418486	02 08 26.84	+33 33 28.9	20.42G		G96
C/2021 Q6	2021 09 15.423766	02 08 26.66	+33 33 28.7	20.25G		G96
C/2021 Q6	2021 09 15.429018	02 08 26.49	+33 33 28.2	20.69G		G96
C/2021 Q6	2021 09 15.432619	02 08 26.414	+33 33 27.88	20.80i		F52
C/2021 Q6	2021 09 15.443381	02 08 26.070	+33 33 27.73	20.86i		F52
C/2021 Q6	2021 09 15.454208	02 08 25.718	+33 33 27.12	20.98i		F52
C/2021 Q6	2021 09 15.465051	02 08 25.368	+33 33 26.56	20.98i		F52

P/2021 R1 (PANSTARRS)

P/2021 R1	2020 08 10.317411	21 00 25.749	−15 50 48.99	22.36G		F51
P/2021 R1	2020 08 10.326581	21 00 25.510	−15 50 50.31	22.97G		F51
P/2021 R1	2020 08 11.298611	21 00 00.405	−15 53 15.01	22.87G		F51
P/2021 R1	2020 08 11.311391	21 00 00.094	−15 53 16.88	21.46G		F51
P/2021 R1	2020 08 11.324125	20 59 59.741	−15 53 18.76	22.02G		F51
P/2021 R1	2020 08 11.336837	20 59 59.357	−15 53 20.93	21.36G		F51
P/2021 R1	2020 08 17.305030	20 57 27.483	−16 07 58.45	22.68G		F51
P/2021 R1	2020 08 17.315980	20 57 27.195	−16 08 00.40	22.68G		F51
P/2021 R1	2020 08 17.337990	20 57 26.616	−16 08 03.22	22.53G		F51
P/2021 R1	2020 08 22.325845	20 55 24.923	−16 19 55.13	22.43G		F51
P/2021 R1	2020 08 22.335618	20 55 24.672	−16 19 56.85	22.72G		F51
P/2021 R1	2020 09 07.289446	20 49 55.726	−16 53 38.87	22.33G		F51
P/2021 R1	2020 09 07.301345	20 49 55.507	−16 53 40.12	23.89G		F51
P/2021 R1	2020 09 12.245881	20 48 39.086	−17 02 20.26	22.21G		F52
P/2021 R1	2020 09 12.256744	20 48 38.926	−17 02 20.91	21.77G		F52
P/2021 R1	2020 09 12.267628	20 48 38.756	−17 02 22.42	22.16G		F52
P/2021 R1	2020 09 12.278513	20 48 38.592	−17 02 23.22	22.29G		F52
P/2021 R1	2020 09 16.279296	20 47 47.616	−17 08 39.42	22.25G		F51
P/2021 R1	2020 09 16.290036	20 47 47.508	−17 08 40.52	22.35G		F51
P/2021 R1	2020 09 16.300517	20 47 47.365	−17 08 41.48	22.89G		F51
P/2021 R1	2021 07 20.518507	23 55 33.077	−03 16 10.33	21.61G		F51
P/2021 R1	2021 07 20.529799	23 55 33.119	−03 16 10.89	21.20G		F51
P/2021 R1	2021 07 20.540993	23 55 33.129	−03 16 11.49	21.20G		F51
P/2021 R1	2021 07 20.552220	23 55 33.169	−03 16 12.15	21.48G		F51
P/2021 R1	2021 07 31.553500	23 55 29.110	−03 29 50.92	21.71G		F51
P/2021 R1	2021 07 31.565294	23 55 29.042	−03 29 51.95	21.09G		F51
P/2021 R1	2021 07 31.577087	23 55 28.992	−03 29 52.96	21.51G		F51
P/2021 R1	2021 07 31.588899	23 55 28.932	−03 29 54.28	21.36G		F51

P/2021 R1	2021 08 04.493843	23 55 07.413	−03 36 55.07	21.26G		F51
P/2021 R1	2021 08 04.505839	23 55 07.324	−03 36 56.44	21.23G		F51
P/2021 R1	2021 08 04.517847	23 55 07.226	−03 36 57.90	21.07G		F51
P/2021 R1	2021 08 04.529856	23 55 07.139	−03 36 59.32	20.93G		F51
P/2021 R1	2021 08 11.566852	23 54 02.462	−03 52 17.99	20.95G		F51
P/2021 R1	2021 08 11.579293	23 54 02.314	−03 52 19.57	21.49G		F51
P/2021 R1	2021 08 11.591715	23 54 02.166	−03 52 21.54	20.85G		F51
P/2021 R1	2021 08 11.604161	23 54 02.017	−03 52 23.20	20.89G		F51
P/2021 R1	2021 08 12.491104	23 53 51.691	−03 54 32.81	20.84G		F51
P/2021 R1	2021 08 12.503544	23 53 51.532	−03 54 34.68	20.95G		F51
P/2021 R1	2021 08 12.516046	23 53 51.370	−03 54 36.63	20.63G		F51
P/2021 R1	2021 08 12.528558	23 53 51.222	−03 54 38.43	20.64G		F51
P/2021 R1	2021 08 17.51167	23 52 43.992	−04 07 37.38	21.5 w		F51
P/2021 R1	2021 08 17.52355	23 52 43.808	−04 07 39.59	21.6 w		F51
P/2021 R1	2021 08 17.53548	23 52 43.612	−04 07 41.43	21.6 w		F51
P/2021 R1	2021 08 17.54745	23 52 43.422	−04 07 43.59	21.7 w		F51
P/2021 R1	2021 08 18.510647	23 52 28.796	−04 10 23.54	20.79G		F51
P/2021 R1	2021 08 18.516534	23 52 28.692	−04 10 24.68	20.60G		F51
P/2021 R1	2021 08 18.522451	23 52 28.605	−04 10 25.48	20.70G		F51
P/2021 R1	2021 08 18.528450	23 52 28.521	−04 10 26.42	20.67G		F51
P/2021 R1	2021 08 27.592360	23 49 47.408	−04 37 37.64	21.87G		F51
P/2021 R1	2021 08 27.601672	23 49 47.219	−04 37 39.36	21.44G		F51
P/2021 R1	2021 08 27.610951	23 49 47.042	−04 37 41.16	21.27G		F51
P/2021 R1	2021 08 27.620214	23 49 46.833	−04 37 43.09	21.04G		F51
P/2021 R1	2021 09 04.355269	23 47 01.758	−05 03 09.18	20.60w		F51
P/2021 R1	2021 09 04.366103	23 47 01.502	−05 03 11.56	20.84w		F51
P/2021 R1	2021 09 04.376993	23 47 01.259	−05 03 13.62	20.69w		F51
P/2021 R1	2021 09 04.387823	23 47 01.006	−05 03 15.83	21.04w		F51
P/2021 R1	2021 09 04.510515	23 46 58.118	−05 03 40.84	20.66G		F51
P/2021 R1	2021 09 04.511193	23 46 58.109	−05 03 40.97	20.57G		F51
P/2021 R1	2021 09 04.94899	23 46 48.14	−05 05 11.1	20.3 G	K	A71
P/2021 R1	2021 09 04.96662	23 46 47.67	−05 05 14.3	20.1 G	K	A71
P/2021 R1	2021 09 05.012599	23 46 46.66	−05 05 24.1	20.9 G	K	L01
P/2021 R1	2021 09 05.036004	23 46 46.11	−05 05 27.9	20.7 G	K	L01
P/2021 R1	2021 09 05.039927	23 46 46.04	−05 05 29.2	20.8 G	K	L01
P/2021 R1	2021 09 05.478164	23 46 36.036	−05 06 57.28	21.17w		F51
P/2021 R1	2021 09 05.493826	23 46 35.663	−05 07 00.47	21.49w		F51
P/2021 R1	2021 09 05.509337	23 46 35.289	−05 07 03.59	21.57w		F51
P/2021 R1	2021 09 05.524444	23 46 34.938	−05 07 06.76	22.03w		F51
P/2021 R1	2021 09 05.94892	23 46 25.16	−05 08 34.9	20.7 G	K	A71
P/2021 R1	2021 09 05.95975	23 46 24.95	−05 08 36.6	20.5 G	K	A71
P/2021 R1	2021 09 05.97058	23 46 24.70	−05 08 38.3	20.7 G	K	A71
P/2021 R1	2021 09 12.334990	23 43 53.43	−05 30 23.4	20.87G		G96
P/2021 R1	2021 09 12.340231	23 43 53.24	−05 30 23.8	20.56G		G96
P/2021 R1	2021 09 12.346745	23 43 53.03	−05 30 25.6	20.18G		G96
P/2021 R1	2021 09 12.351984	23 43 52.90	−05 30 26.4	20.07G		G96

C/2021 R2 (PANSTARRS)

C/2021 R2	2021 08 28.57899	23 38 31.890	+18 39 31.63	20.6 i		F51
C/2021 R2	2021 08 28.59064	23 38 31.283	+18 39 31.11	20.7 i		F51
C/2021 R2	2021 08 28.61390	23 38 30.051	+18 39 30.21	20.7 i		F51
C/2021 R2	2021 09 03.51479	23 33 17.854	+18 34 38.67	20.4 w		F51
C/2021 R2	2021 09 03.52750	23 33 17.170	+18 34 38.06	20.4 w		F51
C/2021 R2	2021 09 03.54022	23 33 16.456	+18 34 37.44	20.4 w		F51
C/2021 R2	2021 09 03.55298	23 33 15.772	+18 34 36.45	20.4 w		F51
C/2021 R2	2021 09 05.338821	23 31 39.703	+18 32 32.59	20.48w		F52
C/2021 R2	2021 09 05.362058	23 31 38.431	+18 32 30.73	20.46w		F52
C/2021 R2	2021 09 05.373705	23 31 37.785	+18 32 30.01	20.38w		F52
C/2021 R2	2021 09 05.595949	23 31 25.651	+18 32 13.25	20.90G		F51
C/2021 R2	2021 09 05.596795	23 31 25.601	+18 32 13.28	20.97G		F51
C/2021 R2	2021 09 05.853840	23 31 11.79	+18 31 52.0	19.8 G		01 246
C/2021 R2	2021 09 05.85504	23 31 11.74	+18 31 52.4	20.2 V	K	C82
C/2021 R2	2021 09 05.855140	23 31 11.74	+18 31 51.5			01 246
C/2021 R2	2021 09 05.855963	23 31 11.66	+18 31 52.3			01 246
C/2021 R2	2021 09 05.86502	23 31 11.14	+18 31 51.6	20.1 V	K	C82
C/2021 R2	2021 09 05.89281	23 31 09.73	+18 31 49.6	20.4 G	K	A71
C/2021 R2	2021 09 05.90044	23 31 09.32	+18 31 49.0	20.2 G	K	A71
C/2021 R2	2021 09 05.91127	23 31 08.74	+18 31 48.0	20.2 G	K	A71
C/2021 R2	2021 09 05.92210	23 31 08.11	+18 31 47.3	20.5 G	K	A71
C/2021 R2	2021 09 05.95890	23 31 06.09	+18 31 44.0	19.5 R	K	157
C/2021 R2	2021 09 05.98059	23 31 04.93	+18 31 43.6	19.5 R	K	157
C/2021 R2	2021 09 06.103119	23 30 58.22	+18 31 34.3	20.7 G	p	L01
C/2021 R2	2021 09 06.106160	23 30 58.11	+18 31 33.4	20.6 G	K	L01
C/2021 R2	2021 09 06.109200	23 30 57.91	+18 31 32.8	20.7 G	K	L01
C/2021 R2	2021 09 06.448894	23 30 39.528	+18 31 07.52	21.13G	28	568
C/2021 R2	2021 09 06.450104	23 30 39.458	+18 31 07.42	21.26G	28	568
C/2021 R2	2021 09 06.451313	23 30 39.392	+18 31 07.30	21.28G	28	568
C/2021 R2	2021 09 06.91248	23 30 14.46	+18 30 29.5	20.1 G	K	587
C/2021 R2	2021 09 06.91600	23 30 14.28	+18 30 29.5	20.1 G	K	587
C/2021 R2	2021 09 06.91950	23 30 14.09	+18 30 29.3	20.0 G	K	587
C/2021 R2	2021 09 07.151765	23 30 01.46	+18 30 09.6	19.8 V	K	858
C/2021 R2	2021 09 07.160762	23 30 00.95	+18 30 10.2	20.2 V	K	858
C/2021 R2	2021 09 07.169736	23 30 00.50	+18 30 08.9	20.1 V	K	858
C/2021 R2	2021 09 07.84771	23 29 23.71	+18 29 11.3	19.8 R	K	L27
C/2021 R2	2021 09 07.85856	23 29 23.09	+18 29 10.4	19.8 R	K	L27
C/2021 R2	2021 09 07.86941	23 29 22.49	+18 29 09.9	19.7 R	K	L27
C/2021 R2	2021 09 08.11072	23 29 09.24	+18 28 48.1	19.5 T		09G40
C/2021 R2	2021 09 08.14914	23 29 07.14	+18 28 44.6	19.7 T		09G40
C/2021 R2	2021 09 11.334473	23 26 13.238	+18 23 39.99	20.73w		F51
C/2021 R2	2021 09 11.345735	23 26 12.613	+18 23 38.69	20.71w		F51
C/2021 R2	2021 09 11.359053	23 26 11.877	+18 23 37.53	20.90w		F51
C/2021 R2	2021 09 11.370281	23 26 11.240	+18 23 36.27	20.82w		F51
C/2021 R2	2021 09 17.241638	23 20 49.45	+18 12 08.7	19.77G		G96
C/2021 R2	2021 09 17.246935	23 20 49.19	+18 12 07.7	19.26G		G96
C/2021 R2	2021 09 17.252235	23 20 48.88	+18 12 06.9			G96
C/2021 R2	2021 09 17.257533	23 20 48.58	+18 12 07.0	19.50G		G96

P/2021 R3 (PANSTARRS)

P/2021 R3	2021 07 09.55425	22 21 20.182	−02 16 00.39	22.1 w		F51
P/2021 R3	2021 07 09.56617	22 21 19.975	−02 15 53.15	22.1 w		F51
P/2021 R3	2021 07 09.57807	22 21 19.782	−02 15 46.85	22.0 w		F51
P/2021 R3	2021 07 09.59002	22 21 19.584	−02 15 39.48	22.1 w		F51
P/2021 R3	2021 07 14.501291	22 19 46.155	−01 29 52.73	21.56G		F51
P/2021 R3	2021 07 14.512951	22 19 45.880	−01 29 46.19	21.87G		F51
P/2021 R3	2021 07 14.524644	22 19 45.588	−01 29 40.34	21.53G		F51
P/2021 R3	2021 07 14.536314	22 19 45.312	−01 29 33.53	21.15G		F51

P/2021 R3	2021 07 17.607823	22 18 27.930	−01 02 15.41	22.20G		F51
P/2021 R3	2021 08 03.455779	22 07 40.451	+01 05 56.08	20.92G		F51
P/2021 R3	2021 08 03.467360	22 07 39.868	+01 06 00.42	21.23G		F51
P/2021 R3	2021 08 07.33308	22 04 28.221	+01 29 28.50	21.5	w	F51
P/2021 R3	2021 08 07.34598	22 04 27.539	+01 29 33.01	21.6	w	F51
P/2021 R3	2021 08 07.35884	22 04 26.865	+01 29 37.52	21.7	w	F51
P/2021 R3	2021 08 11.419758	22 00 53.974	+01 51 37.61	20.68G		F51
P/2021 R3	2021 08 11.432988	22 00 53.249	+01 51 41.59	21.50G		F51
P/2021 R3	2021 08 11.446182	22 00 52.510	+01 51 45.84	20.99G		F51
P/2021 R3	2021 08 12.368336	22 00 03.157	+01 56 22.48	21.09G		F51
P/2021 R3	2021 08 12.380106	22 00 02.506	+01 56 26.08	21.12G		F51
P/2021 R3	2021 08 13.536383	21 58 59.626	+02 02 00.95	20.51G		F51
P/2021 R3	2021 08 13.547137	21 58 59.029	+02 02 04.11	20.92G		F51
P/2021 R3	2021 08 25.440494	21 48 09.532	+02 47 02.61	21.33G		F51
P/2021 R3	2021 08 25.464436	21 48 08.193	+02 47 06.44	20.99G		F51
P/2021 R3	2021 08 30.35210	21 43 53.138	+02 59 22.76	21.5	w	F52
P/2021 R3	2021 08 30.36367	21 43 52.510	+02 59 24.33	21.3	w	F52
P/2021 R3	2021 08 30.37528	21 43 51.912	+02 59 25.85	21.4	w	F52
P/2021 R3	2021 09 05.31938	21 39 05.222	+03 10 05.79	21.4	w	F51
P/2021 R3	2021 09 05.33194	21 39 04.634	+03 10 06.76	21.2	w	F51
P/2021 R3	2021 09 05.34444	21 39 04.049	+03 10 07.68	21.4	w	F51
P/2021 R3	2021 09 05.35698	21 39 03.444	+03 10 08.95	21.4	w	F51
P/2021 R3	2021 09 05.85343	21 38 41.07	+03 10 47.6	20.7	G	K A71
P/2021 R3	2021 09 05.86856	21 38 40.40	+03 10 48.8	20.9	G	K A71
P/2021 R3	2021 09 05.87474	21 38 40.22	+03 10 51.8	20.5	G	04 J04
P/2021 R3	2021 09 05.88356	21 38 39.83	+03 10 53.2	20.6	G	04 J04
P/2021 R3	2021 09 05.89239	21 38 39.40	+03 10 53.0	21.0	G	04 J04
P/2021 R3	2021 09 06.400654	21 38 16.492	+03 11 35.51	21.52G		28 568
P/2021 R3	2021 09 06.401861	21 38 16.438	+03 11 35.60	21.39G		28 568
P/2021 R3	2021 09 06.403071	21 38 16.382	+03 11 35.69	21.47G		28 568
P/2021 R3	2021 09 07.27874	21 37 38.00	+03 12 41.4			32H06
P/2021 R3	2021 09 07.28746	21 37 37.62	+03 12 41.7	20.8	G	32H06
P/2021 R3	2021 09 08.25559	21 36 56.25	+03 13 51.4	20.8	R	K 291
P/2021 R3	2021 09 08.26137	21 36 55.98	+03 13 51.7	21.0	R	K 291
P/2021 R3	2021 09 08.26714	21 36 55.69	+03 13 51.4	20.7	R	K 291
P/2021 R3	2021 09 08.81612	21 36 32.79	+03 14 25.0	20.4	G	K A71
P/2021 R3	2021 09 08.82782	21 36 32.41	+03 14 27.3	20.7	G	K A71
P/2021 R3	2021 09 09.847478	21 35 50.55	+03 15 30.8	20.9	G	K L01
P/2021 R3	2021 09 09.84889	21 35 50.55	+03 15 31.9	20.1	R	K K51
P/2021 R3	2021 09 09.851889	21 35 50.43	+03 15 31.0	20.7	G	K L01
P/2021 R3	2021 09 09.857796	21 35 50.16	+03 15 31.7	20.9	G	K L01
P/2021 R3	2021 09 09.85887	21 35 50.15	+03 15 32.7	20.1	R	K K51
P/2021 R3	2021 09 10.206331	21 35 36.21	+03 15 53.2	21.36G		G96
P/2021 R3	2021 09 10.211570	21 35 36.01	+03 15 54.1	21.46G		G96
P/2021 R3	2021 09 10.216816	21 35 35.79	+03 15 53.8	21.01G		G96
P/2021 R3	2021 09 10.222068	21 35 35.54	+03 15 54.7	21.19G		G96
P/2021 R3	2021 09 10.29595	21 35 32.724	+03 15 59.87	21.8	w	F51
P/2021 R3	2021 09 10.30832	21 35 32.213	+03 16 00.78	21.7	w	F51
P/2021 R3	2021 09 10.32062	21 35 31.687	+03 16 01.54	21.7	w	F51
P/2021 R3	2021 09 10.80613	21 35 12.60	+03 16 25.7	20.7	G	K A71
P/2021 R3	2021 09 10.81757	21 35 12.14	+03 16 25.7	20.8	G	K A71
P/2021 R3	2021 09 10.84165	21 35 11.13	+03 16 28.2	20.6	G	K A71
P/2021 R3	2021 09 13.300139	21 33 32.68	+03 17 28.1			01 658
P/2021 R3	2021 09 13.303484	21 33 32.54	+03 17 27.9			01 658
P/2021 R3	2021 09 13.306829	21 33 32.41	+03 17 27.7			01 658
P/2021 R3	2021 09 13.310174	21 33 32.28	+03 17 27.4			01 658
P/2021 R3	2021 09 13.313530	21 33 32.15	+03 17 26.9			01 658

P/2021 R4 (Wierzchos)

P/2021 R4	2021 09 04.41849	00 24 16.473	+27 21 56.26	21.3	w	F52
P/2021 R4	2021 09 04.42881	00 24 16.112	+27 22 04.45	21.6	w	F52
P/2021 R4	2021 09 04.43914	00 24 15.738	+27 22 11.71	21.5	w	F52
P/2021 R4	2021 09 04.44955	00 24 15.366	+27 22 20.30	21.4	w	F52
P/2021 R4	2021 09 06.402465	00 23 09.13	+27 46 32.3	21.16G		G96
P/2021 R4	2021 09 06.408170	00 23 08.96	+27 46 36.3			G96
P/2021 R4	2021 09 06.413884	00 23 08.75	+27 46 40.7	20.62G		G96
P/2021 R4	2021 09 06.419597	00 23 08.54	+27 46 45.3	20.98G		G96
P/2021 R4	2021 09 06.461385	00 23 06.92	+27 47 15.3	20.37G		G96
P/2021 R4	2021 09 06.465638	00 23 06.79	+27 47 17.7	20.74G		G96
P/2021 R4	2021 09 06.469804	00 23 06.62	+27 47 20.5	20.43G		G96
P/2021 R4	2021 09 06.988294	00 22 48.42	+27 53 36.0	20.9	G	K L01
P/2021 R4	2021 09 06.991258	00 22 48.34	+27 53 37.9	21.0	G	K L01
P/2021 R4	2021 09 07.013837	00 22 47.46	+27 53 54.4	21.1	G	K L01
P/2021 R4	2021 09 07.015360	00 22 47.44	+27 53 55.6	21.0	G	K L01
P/2021 R4	2021 09 07.074792	00 22 45.13	+27 54 38.9	21.1	G	K L01
P/2021 R4	2021 09 07.39248	00 22 33.60	+27 58 28.1			32H06
P/2021 R4	2021 09 07.40119	00 22 33.23	+27 58 34.2	20.4	G	32H06
P/2021 R4	2021 09 07.453182	00 22 31.25	+27 59 10.4	21.49G		K V06
P/2021 R4	2021 09 07.456602	00 22 31.18	+27 59 13.6	21.70G		K V06
P/2021 R4	2021 09 07.460023	00 22 31.07	+27 59 15.7			K V06
P/2021 R4	2021 09 07.475659	00 22 30.44	+27 59 27.1	20.77G		K V06
P/2021 R4	2021 09 08.85800	00 21 38.88	+28 15 37.0	20.5	G	K A71
P/2021 R4	2021 09 08.86666	00 21 38.49	+28 15 42.7	20.3	G	K A71
P/2021 R4	2021 09 08.87749	00 21 38.07	+28 15 50.9	20.6	G	K A71
P/2021 R4	2021 09 09.296067	00 21 21.83	+28 20 42.3			G96
P/2021 R4	2021 09 09.301240	00 21 21.58	+28 20 45.1	21.08G		G96
P/2021 R4	2021 09 09.306472	00 21 21.33	+28 20 48.3	20.37G		G96
P/2021 R4	2021 09 10.86533	00 20 18.93	+28 38 13.7	21.2	G	K A71
P/2021 R4	2021 09 10.87980	00 20 18.35	+28 38 24.6	21.2	G	K A71
P/2021 R4	2021 09 11.11349	00 20 08.31	+28 40 59.8	20.3	V	K A77
P/2021 R4	2021 09 11.12730	00 20 07.66	+28 41 09.5	20.7	V	K A77
P/2021 R4	2021 09 11.14112	00 20 07.07	+28 41 18.3	20.9	V	K A77
P/2021 R4	2021 09 11.94832	00 19 33.58	+28 50 02.9	20.5	N	K 157
P/2021 R4	2021 09 11.97001	00 19 32.69	+28 50 16.2	20.3	N	K 157
P/2021 R4	2021 09 14.286157	00 17 51.68	+29 14 16.3			01 658
P/2021 R4	2021 09 14.289502	00 17 51.52	+29 14 18.0			01 658
P/2021 R4	2021 09 14.292847	00 17 51.37	+29 14 20.0			01 658
P/2021 R4	2021 09 14.296192	00 17 51.22	+29 14 22.3			01 658
P/2021 R4	2021 09 14.299549	00 17 51.07	+29 14 23.9			01 658
P/2021 R4	2021 09 15.347776	00 17 03.13	+29 24 46.7	20.24G		G96
P/2021 R4	2021 09 15.354335	00 17 02.90	+29 24 51.0	20.92G		G96
P/2021 R4	2021 09 15.359612	00 17 02.65	+29 24 54.0	20.52G		G96
P/2021 R4	2021 09 15.364869	00 17 02.36	+29 24 56.8	20.32G		G96

P/2021 R5 (Rankin)

P/2021 R5	2021 06 22.590065	00 19 15.676	+08 37 07.42	21.80G		F51
P/2021 R5	2021 06 22.593933	00 19 15.821	+08 37 08.60	21.40G		F51

P/2021 R5	2021 06 22.597833	00 19 16.009	+08 37 10.20	21.05G		F51
P/2021 R5	2021 08 11.489987	00 40 05.301	+11 15 39.88	20.21G		F51
P/2021 R5	2021 08 11.501063	00 40 05.307	+11 15 40.18	20.17G		F51
P/2021 R5	2021 08 11.512237	00 40 05.316	+11 15 40.48	20.04G		F51
P/2021 R5	2021 09 01.398948	00 37 05.837	+10 55 39.86	19.96G		F52
P/2021 R5	2021 09 05.38709	00 35 44.850	+10 45 04.02	19.9 w		F52
P/2021 R5	2021 09 05.39799	00 35 44.601	+10 45 02.06	20.0 w		F52
P/2021 R5	2021 09 05.40892	00 35 44.344	+10 45 00.28	20.1 w		F52
P/2021 R5	2021 09 05.41989	00 35 44.090	+10 44 58.29	20.1 w		F52
P/2021 R5	2021 09 06.36104	00 35 22.90	+10 42 07.5	20.1 G		703
P/2021 R5	2021 09 06.36627	00 35 22.77	+10 42 07.3	20.3 G		703
P/2021 R5	2021 09 06.37150	00 35 22.62	+10 42 06.2	19.6 G		703
P/2021 R5	2021 09 07.465591	00 34 57.32	+10 38 41.4	19.39o		T08
P/2021 R5	2021 09 07.468364	00 34 57.28	+10 38 42.0	19.59o		T08
P/2021 R5	2021 09 07.471131	00 34 57.23	+10 38 41.7	19.44o		T08
P/2021 R5	2021 09 07.476194	00 34 57.07	+10 38 38.5	19.49o		T08
P/2021 R5	2021 09 09.286440	00 34 13.28	+10 32 39.6	19.34G		G96
P/2021 R5	2021 09 09.292082	00 34 13.13	+10 32 38.3	19.26G		G96
P/2021 R5	2021 09 09.298653	00 34 12.96	+10 32 36.9	19.35G		G96
P/2021 R5	2021 09 09.305276	00 34 12.78	+10 32 35.6	19.26G		G96
P/2021 R5	2021 09 09.389556	00 34 10.57	+10 32 18.1	19.45G		G96
P/2021 R5	2021 09 09.396003	00 34 10.39	+10 32 16.9	19.43G		G96
P/2021 R5	2021 09 09.402658	00 34 10.24	+10 32 15.5	19.37G		G96
P/2021 R5	2021 09 09.42866	00 34 09.53	+10 32 10.0			32H06
P/2021 R5	2021 09 09.43373	00 34 09.37	+10 32 08.9	18.8 G		32H06
P/2021 R5	2021 09 09.67330	00 34 03.50	+10 31 18.8		K	P87
P/2021 R5	2021 09 09.68100	00 34 03.24	+10 31 18.1	19.3 R	K	P87
P/2021 R5	2021 09 09.89034	00 33 58.10	+10 30 33.0	19.3 G	K	G02
P/2021 R5	2021 09 09.903599	00 33 57.81	+10 30 30.0	19 G		01 246
P/2021 R5	2021 09 09.90362	00 33 57.76	+10 30 29.7	19.2 G	K	G02
P/2021 R5	2021 09 09.903941	00 33 57.78	+10 30 29.8			01 246
P/2021 R5	2021 09 09.906483	00 33 57.69	+10 30 29.6			01 246
P/2021 R5	2021 09 09.91619	00 33 57.41	+10 30 26.8	19.4 G	K	G02
P/2021 R5	2021 09 10.029405	00 33 54.47	+10 30 03.8	19.0 G	K	L01
P/2021 R5	2021 09 10.03080	00 33 54.58	+10 30 04.5	19.1 G		09G40
P/2021 R5	2021 09 10.031734	00 33 54.40	+10 30 03.4	19.3 G	K	L01
P/2021 R5	2021 09 10.034863	00 33 54.32	+10 30 02.6	19.2 G	K	L01
P/2021 R5	2021 09 10.17977	00 33 50.53	+10 29 32.1	19.3 G		09G40
P/2021 R5	2021 09 10.20626	00 33 49.89	+10 29 27.1	19.3 G		02G40
P/2021 R5	2021 09 10.22649	00 33 49.29	+10 29 22.2	19.1 G		02G40
P/2021 R5	2021 09 10.497542	00 33 42.42	+10 28 26.4	19.65c		T05
P/2021 R5	2021 09 10.525496	00 33 41.79	+10 28 20.1	19.59c		T05
P/2021 R5	2021 09 10.528542	00 33 41.62	+10 28 19.7	19.72c		T05
P/2021 R5	2021 09 10.556702	00 33 40.86	+10 28 12.6	19.58c		T05
P/2021 R5	2021 09 10.89549	00 33 32.35	+10 26 58.5	19.0 R	K	L27
P/2021 R5	2021 09 10.89805	00 33 32.27	+10 26 56.5	19.2 G	K	A71
P/2021 R5	2021 09 10.90676	00 33 32.01	+10 26 54.7	19.3 G	K	A71
P/2021 R5	2021 09 10.91619	00 33 31.78	+10 26 53.0	19.3 G	K	A71
P/2021 R5	2021 09 10.94245	00 33 31.08	+10 26 48.2	19.0 R	K	L27
P/2021 R5	2021 09 10.98945	00 33 29.82	+10 26 38.0	19.0 R	K	L27
P/2021 R5	2021 09 11.03792	00 33 28.48	+10 26 27.5	19.6 G	K	K83
P/2021 R5	2021 09 11.04598	00 33 28.28	+10 26 26.0	19.4 G	K	K83
P/2021 R5	2021 09 11.05404	00 33 28.04	+10 26 23.6	19.3 G	K	K83
P/2021 R5	2021 09 11.05420	00 33 28.03	+10 26 23.4	19.7 V	K	A77
P/2021 R5	2021 09 11.07463	00 33 27.49	+10 26 18.9	19.6 V	K	A77
P/2021 R5	2021 09 11.09458	00 33 26.94	+10 26 14.4	19.8 V	K	A77
P/2021 R5	2021 09 11.37553	00 33 19.63	+10 25 13.8			83H06
P/2021 R5	2021 09 11.37982	00 33 19.49	+10 25 13.0	19.4 R		83H06
P/2021 R5	2021 09 11.88183	00 33 06.37	+10 23 19.9	19.4 R	K	C10
P/2021 R5	2021 09 11.89879	00 33 05.92	+10 23 16.1	19.2 R	K	C10
P/2021 R5	2021 09 11.90620	00 33 05.70	+10 23 13.9	19.1 G	K	G02
P/2021 R5	2021 09 11.91321	00 33 05.51	+10 23 12.6	19.1 G	K	G02
P/2021 R5	2021 09 11.91575	00 33 05.47	+10 23 12.2	19.4 R	K	C10
P/2021 R5	2021 09 11.92092	00 33 05.29	+10 23 11.1	19.2 G	K	G02
P/2021 R5	2021 09 11.98903	00 33 03.40	+10 22 56.2	19.5 N	K	157
P/2021 R5	2021 09 11.99153	00 33 03.36	+10 22 55.7	19.2 T		Z08
P/2021 R5	2021 09 11.99988	00 33 03.09	+10 22 54.2	19.1 N	K	157
P/2021 R5	2021 09 12.00380	00 33 03.02	+10 22 53.0	19.2 T		Z08
P/2021 R5	2021 09 12.01073	00 33 02.79	+10 22 51.4	19.0 N	K	157
P/2021 R5	2021 09 12.01697	00 33 02.68	+10 22 49.4	19.2 T		Z08
P/2021 R5	2021 09 13.377685	00 32 25.70	+10 17 35.9			01 658
P/2021 R5	2021 09 13.381030	00 32 25.61	+10 17 35.3			01 658
P/2021 R5	2021 09 13.384375	00 32 25.50	+10 17 34.1			01 658
P/2021 R5	2021 09 13.387720	00 32 25.41	+10 17 33.2			01 658
P/2021 R5	2021 09 13.389954	00 32 25.36	+10 17 32.7			01 658
P/2021 R5	2021 09 14.317095	00 31 59.65	+10 13 52.0			01 658
P/2021 R5	2021 09 14.320440	00 31 59.57	+10 13 51.6			01 658
P/2021 R5	2021 09 14.323785	00 31 59.48	+10 13 51.1			01 658
P/2021 R5	2021 09 14.327130	00 31 59.37	+10 13 50.1			01 658
P/2021 R5	2021 09 14.330486	00 31 59.29	+10 13 49.3			01 658
P/2021 R5	2021 09 15.76968	00 31 18.14	+10 07 54.5	18.9 R		D29
P/2021 R5	2021 09 15.78383	00 31 17.72	+10 07 50.8	18.5 R		D29
P/2021 R5	2021 09 15.79797	00 31 17.28	+10 07 47.5	19.6 R		D29
P/2021 R5	2021 09 17.01801	00 30 41.85	+10 02 35.7	19.5 T	K	Z10
P/2021 R5	2021 09 17.02895	00 30 41.50	+10 02 32.7	19.1 T	K	Z10

2P/Encke

2P	2021 08 06.451959	22 39 14.888	−09 22 36.85	19.99w		F51
2P	2021 08 06.461119	22 39 14.350	−09 22 39.53	19.94w		F51
2P	2021 08 06.470611	22 39 13.797	−09 22 42.29	20.05w		F51
2P	2021 08 06.479854	22 39 13.252	−09 22 45.00	20.06w		F51
2P	2021 08 07.72038	22 38 01.39	−09 28 49.7	18.8 R		D29
2P	2021 08 07.72127	22 38 01.26	−09 28 50.4	19.1 R		D29
2P	2021 08 07.73453	22 38 00.53	−09 28 54.1	19.3 R		D29
2P	2021 08 07.73541	22 38 00.42	−09 28 54.9	19.2 R		D29
2P	2021 08 07.74867	22 37 59.63	−09 28 57.8	19.6 R		D29
2P	2021 08 07.74955	22 37 59.60	−09 28 58.7	19.3 R		D29
2P	2021 08 10.10746	22 35 40.26	−09 40 42.7	19.9 R		03 J04
2P	2021 08 10.11915	22 35 39.55	−09 40 46.5	19.5 R		03 J04
2P	2021 08 10.13084	22 35 38.86	−09 40 49.7	19.7 R		03 J04
2P	2021 08 10.14253	22 35 38.08	−09 40 53.6	20.3 R		03 J04
2P	2021 08 12.02832	22 33 44.39	−09 50 26.3	19.8 T	K	204
2P	2021 08 12.03584	22 33 43.90	−09 50 28.1		K	204
2P	2021 08 16.70925	22 28 55.15	−10 14 27.1	18.6 R		D29
2P	2021 08 16.72339	22 28 54.29	−10 14 31.6	18.6 R		D29
2P	2021 08 16.73753	22 28 53.35	−10 14 36.2	18.9 R		D29

2P	2021 08 27.486913	22 17 31.691	−11 09 48.34	19.55i		F51
2P	2021 08 27.499436	22 17 30.884	−11 09 52.18	19.51i		F51
2P	2021 08 27.511699	22 17 30.097	−11 09 55.92	19.65i		F51
2P	2021 08 27.523980	22 17 29.303	−11 09 59.66	19.52i		F51
2P	2021 08 31.368422	22 13 27.281	−11 29 03.76	20.09w		F51
2P	2021 08 31.379424	22 13 26.581	−11 29 06.98	20.18w		F51
2P	2021 08 31.401428	22 13 25.179	−11 29 13.46	20.12w		F51
2P	2021 09 01.272450	22 12 30.87	−11 33 27.7	20.53g		I41
2P	2021 09 01.295160	22 12 29.45	−11 33 34.3	19.99i		I41
2P	2021 09 05.310569	22 08 22.99	−11 52 33.4	20.49g		I41
2P	2021 09 05.358470	22 08 20.07	−11 52 46.4	20.05r		I41
2P	2021 09 10.58873	22 03 12.20	−12 15 57.9	19.9	R	D29
2P	2021 09 10.60287	22 03 11.34	−12 16 01.7	20.1	R	D29
2P	2021 09 10.61701	22 03 10.49	−12 16 05.3	20.3	R	D29
2P	2021 09 12.247414	22 01 38.438	−12 22 53.21	20.38w		F51
2P	2021 09 12.255823	22 01 37.962	−12 22 55.33	20.33w		F51
2P	2021 09 12.264250	22 01 37.490	−12 22 57.57	20.43w		F51
2P	2021 09 12.272701	22 01 37.007	−12 22 59.54	20.49w		F51
2P	2021 09 12.286854	22 01 36.206	−12 23 03.17	20.46w		F51
2P	2021 09 12.297828	22 01 35.581	−12 23 05.86	20.47w		F51
2P	2021 09 12.308809	22 01 34.955	−12 23 08.56	20.48w		F51
2P	2021 09 12.319786	22 01 34.319	−12 23 11.30	20.40w		F51

4P/Faye

4P	2021 08 05.75484	03 37 03.56	+18 20 58.3	14.4	T	Q21
4P	2021 08 05.76115	03 37 04.60	+18 20 59.7	14.3	T	Q21
4P	2021 08 05.78487	03 37 08.69	+18 21 06.8			P87
4P	2021 08 05.79135	03 37 09.77	+18 21 08.2	12.7	T	P87
4P	2021 08 06.13067	03 38 07.27	+18 22 30.3	14.2	T	Z10
4P	2021 08 06.13791	03 38 08.54	+18 22 32.3	14.2	T	Z10
4P	2021 08 06.14598	03 38 09.91	+18 22 35.1	14.2	T	Z10
4P	2021 08 07.18869	03 41 06.86	+18 26 43.3	13.1	T	02G40
4P	2021 08 07.19382	03 41 07.73	+18 26 44.5	13.0	T	02G40
4P	2021 08 07.19991	03 41 08.76	+18 26 46.0	13.1	T	02G40
4P	2021 08 07.604348	03 42 17.36	+18 28 18.6	13.70c		T08
4P	2021 08 07.622815	03 42 20.45	+18 28 22.8	13.65c		T08
4P	2021 08 07.625450	03 42 20.90	+18 28 23.3	13.73c		T08
4P	2021 08 07.629061	03 42 21.50	+18 28 24.2	13.64c		T08
4P	2021 08 08.12441	03 43 45.61	+18 30 10.8	13.8	N	J01
4P	2021 08 08.13089	03 43 46.72	+18 30 12.3	13.8	N	J01
4P	2021 08 08.13953	03 43 48.17	+18 30 13.9	13.9	N	J01
4P	2021 08 09.11513	03 46 33.60	+18 33 39.3	13.8	T	L27
4P	2021 08 09.12064	03 46 34.51	+18 33 40.3	13.9	T	L27
4P	2021 08 09.12655	03 46 35.52	+18 33 41.6	13.9	T	L27
4P	2021 08 09.80748	03 48 30.88	+18 36 02.7	13.0	T	Q38
4P	2021 08 09.81058	03 48 31.88	+18 36 03.5	13.0	T	Q38
4P	2021 08 09.81362	03 48 31.97	+18 36 03.8	13.1	T	Q38
4P	2021 08 10.08763	03 49 18.49	+18 36 49.8	14.2	T	K 215
4P	2021 08 10.08905	03 49 18.74	+18 36 50.1	14.1	T	K 215
4P	2021 08 10.09048	03 49 18.98	+18 36 50.4	14.2	T	K 215
4P	2021 08 10.09439	03 49 19.72	+18 36 51.6	15.1	T	A77
4P	2021 08 10.10267	03 49 21.12	+18 36 52.9	15.1	T	A77
4P	2021 08 10.11094	03 49 22.49	+18 36 54.5	12.7	T	A77
4P	2021 08 11.08830	03 52 08.05	+18 39 52.3	13.8	T	970
4P	2021 08 11.09161	03 52 08.63	+18 39 53.0	13.8	T	970
4P	2021 08 12.05856	03 54 52.39	+18 42 36.0	13.8	T	I81
4P	2021 08 12.05997	03 54 52.56	+18 42 35.8	13.8	T	I81
4P	2021 08 12.06138	03 54 52.88	+18 42 36.3	13.8	T	I81
4P	2021 08 12.06278	03 54 53.02	+18 42 36.4	13.8	T	I81
4P	2021 08 12.06419	03 54 53.21	+18 42 36.5	13.8	T	I81
4P	2021 08 12.06559	03 54 53.52	+18 42 36.9	13.8	T	I81
4P	2021 08 13.03688	03 57 37.89	+18 45 08.7	14.1	T	A71
4P	2021 08 13.03812	03 57 38.08	+18 45 08.7	14.1	T	A71
4P	2021 08 13.03939	03 57 38.33	+18 45 09.1	14.1	T	A71
4P	2021 08 14.07239	04 00 32.93	+18 47 34.9	14.7	T	C23
4P	2021 08 14.07672	04 00 33.61	+18 47 35.5	14.4	T	C23
4P	2021 08 14.08105	04 00 34.35	+18 47 36.1	14.4	T	C23
4P	2021 08 14.09253	04 00 36.36	+18 47 38.1	14.7	T	A77
4P	2021 08 14.09667	04 00 37.04	+18 47 38.6	14.8	T	A77
4P	2021 08 14.10163	04 00 37.89	+18 47 39.4	14.4	T	A77
4P	2021 08 14.10601	04 00 38.61	+18 47 40.1	13.9	N	J01
4P	2021 08 14.11520	04 00 40.16	+18 47 41.5	13.9	N	J01
4P	2021 08 14.12663	04 00 42.04	+18 47 42.7	13.9	N	J01
4P	2021 08 15.09267	04 03 25.07	+18 49 44.4	13.8	T	C10
4P	2021 08 15.10333	04 03 26.91	+18 49 45.7	13.8	T	C10
4P	2021 08 15.11476	04 03 28.80	+18 49 47.0	13.8	T	C10
4P	2021 08 16.05407	04 06 07.11	+18 51 31.8	13.7	T	I81
4P	2021 08 16.05549	04 06 07.44	+18 51 31.9	13.6	T	I81
4P	2021 08 16.05689	04 06 07.68	+18 51 32.1	13.7	T	I81
4P	2021 08 16.05830	04 06 07.76	+18 51 31.9	13.6	T	I81
4P	2021 08 16.05970	04 06 08.13	+18 51 32.2	13.7	T	I81
4P	2021 08 17.05274	04 08 55.29	+18 53 09.9	13.8	T	970
4P	2021 08 17.05608	04 08 55.82	+18 53 10.5	13.7	T	970
4P	2021 08 17.12422	04 09 07.26	+18 53 17.7	15.0	T	A77
4P	2021 08 17.13070	04 09 08.34	+18 53 18.7	15.1	T	A77
4P	2021 08 17.13800	04 09 09.61	+18 53 19.0	12.0	T	A77
4P	2021 08 17.25721	04 09 29.71	+18 53 30.0	13.3	T	00 851
4P	2021 08 17.27077	04 09 31.91	+18 53 30.7	13.4	T	00 851
4P	2021 08 17.28755	04 09 34.76	+18 53 31.9	13.2	T	02 I22
4P	2021 08 17.28834	04 09 34.87	+18 53 32.0	13.2	T	02 I22
4P	2021 08 17.28916	04 09 34.98	+18 53 31.8	13.2	T	02 I22
4P	2021 08 17.28995	04 09 35.19	+18 53 32.5	13.2	T	02 I22
4P	2021 08 17.29076	04 09 35.23	+18 53 32.2	13.2	T	02 I22
4P	2021 08 17.29156	04 09 35.40	+18 53 32.1	13.2	T	02 I22
4P	2021 08 17.29236	04 09 35.54	+18 53 32.4	13.2	T	02 I22
4P	2021 08 17.29317	04 09 35.66	+18 53 32.8	13.1	T	02 I22
4P	2021 08 17.29398	04 09 35.81	+18 53 32.4	13.1	T	02 I22
4P	2021 08 17.610084	04 10 28.92	+18 54 02.7	13.33o		T05
4P	2021 08 17.614204	04 10 29.61	+18 54 03.1	13.33o		T05
4P	2021 08 17.622733	04 10 31.02	+18 54 03.9	13.32o		T05
4P	2021 08 17.631522	04 10 32.48	+18 54 04.6	13.34o		T05
4P	2021 08 18.12001	04 11 54.58	+18 54 40.4	14.1	T	Z10
4P	2021 08 18.12630	04 11 55.64	+18 54 41.1	14.1	T	Z10
4P	2021 08 18.13260	04 11 56.65	+18 54 41.6	14.2	T	Z10
4P	2021 08 18.13961	04 11 57.87	+18 54 42.4	13.4	T	A77
4P	2021 08 18.14371	04 11 58.56	+18 54 42.9	13.6	T	A77

4P	2021 08 18.14865	04 11 59.35	+18 54 42.7	13.4	T	A77	4P	2021 08 27.440345	04 37 41.62	+18 56 06.4	12.23	G	703
4P	2021 08 18.72789	04 13 36.62	+18 55 24.5			D95	4P	2021 08 28.02655	04 39 17.43	+18 55 27.4	13.5	T	C23
4P	2021 08 18.73298	04 13 37.43	+18 55 24.9			D95	4P	2021 08 28.03030	04 39 18.05	+18 55 27.2	13.4	T	C23
4P	2021 08 18.73662	04 13 38.04	+18 55 25.2	11.6	T	D95	4P	2021 08 28.03404	04 39 18.64	+18 55 27.1	13.7	T	C23
4P	2021 08 19.053993	04 14 31.19	+18 55 45.1	13.1	T	G23	4P	2021 08 28.74986	04 41 15.32	+18 54 37.6	11.5	T	D95
4P	2021 08 19.073854	04 14 34.51	+18 55 47.1	13.2	T	G23	4P	2021 08 28.75204	04 41 15.67	+18 54 37.5			D95
4P	2021 08 19.095139	04 14 37.91	+18 55 46.9	12.9	T	I G23	4P	2021 08 28.75643	04 41 16.37	+18 54 37.2			D95
4P	2021 08 19.11416	04 14 41.25	+18 55 48.9	13.8	N	J01	4P	2021 09 01.06067	04 50 10.69	+18 49 04.7	13.0	T	I81
4P	2021 08 19.12520	04 14 43.19	+18 55 49.7	13.8	N	J01	4P	2021 09 01.06280	04 50 11.01	+18 49 04.9	13.0	T	I81
4P	2021 08 19.13992	04 14 45.61	+18 55 50.5	13.8	N	J01	4P	2021 09 01.06494	04 50 11.33	+18 49 04.5	13.0	T	I81
4P	2021 08 19.572302	04 15 58.05	+18 56 18.6	13.49o		T08	4P	2021 09 01.06711	04 50 11.68	+18 49 04.1	12.9	T	I81
4P	2021 08 19.575536	04 15 58.59	+18 56 18.7	13.46o		T08	4P	2021 09 02.08375	04 52 54.49	+18 46 53.1		K	G18
4P	2021 08 19.582008	04 15 59.66	+18 56 19.1	13.43o		T08	4P	2021 09 02.08562	04 52 54.79	+18 46 52.9		K	G18
4P	2021 08 19.592074	04 16 01.33	+18 56 19.8	13.34o		T08	4P	2021 09 02.16712	04 53 07.80	+18 46 43.5	13.2	T	09G40
4P	2021 08 20.17756	04 17 39.31	+18 56 48.4	13.6	T	29G40	4P	2021 09 02.18700	04 53 11.00	+18 46 40.7	13.2	T	09G40
4P	2021 08 20.18524	04 17 40.61	+18 56 48.3	14.7	T	29G40	4P	2021 09 02.21874	04 53 15.96	+18 46 36.4	13.3	T	09G40
4P	2021 08 20.19602	04 17 42.37	+18 56 49.6	13.6	T	29G40	4P	2021 09 02.23253	04 53 18.15	+18 46 34.7	13.3	T	09G40
4P	2021 08 21.576531	04 21 32.76	+18 57 39.9	14.72o		T05	4P	2021 09 03.09124	04 55 34.87	+18 44 27.0	13.3	T	G06
4P	2021 08 21.582339	04 21 33.72	+18 57 40.4	13.58o		T05	4P	2021 09 03.09843	04 55 36.07	+18 44 26.0	13.3	T	G06
4P	2021 08 21.597323	04 21 36.19	+18 57 40.9	13.52o		T05	4P	2021 09 03.10562	04 55 37.19	+18 44 24.9	13.3	T	G06
4P	2021 08 21.602404	04 21 37.02	+18 57 41.0	13.48o		T05	4P	2021 09 03.10921	04 55 37.80	+18 44 24.3	13.3	T	G06
4P	2021 08 24.02477	04 28 19.38	+18 57 58.2	14.8	T	C23	4P	2021 09 04.10119	04 58 14.94	+18 41 47.7	13.2	N	J01
4P	2021 08 24.02924	04 28 20.10	+18 57 58.0	14.8	T	C23	4P	2021 09 04.11363	04 58 16.84	+18 41 45.3	12.9	T	K74
4P	2021 08 24.03357	04 28 20.84	+18 57 58.1	14.8	T	C23	4P	2021 09 04.11515	04 58 17.08	+18 41 45.1	12.9	T	K74
4P	2021 08 24.09083	04 28 30.25	+18 57 57.6	14.0	T	G06	4P	2021 09 04.11667	04 58 17.31	+18 41 44.8	12.9	T	K74
4P	2021 08 24.09964	04 28 31.65	+18 57 57.7	14.0	T	G06	4P	2021 09 04.11809	04 58 17.57	+18 41 44.6	12.9	T	K74
4P	2021 08 24.10625	04 28 32.74	+18 57 57.2	14.0	T	G06	4P	2021 09 04.12016	04 58 17.89	+18 41 44.2	12.9	T	K74
4P	2021 08 24.11066	04 28 33.50	+18 57 57.5	14.0	T	G06	4P	2021 09 04.13330	04 58 20.04	+18 41 42.8	13.3	N	J01
4P	2021 08 25.600950	04 32 39.61	+18 57 30.2	13.53o		T05	4P	2021 09 04.14471	04 58 21.78	+18 41 40.5	13.2	N	J01
4P	2021 08 25.614175	04 32 41.75	+18 57 29.9	13.64o		T05	4P	2021 09 04.597657	04 59 33.17	+18 40 26.7	12.76o		T08
4P	2021 08 25.619350	04 32 42.60	+18 57 29.8	13.53o		T05	4P	2021 09 04.616159	04 59 36.05	+18 40 23.7	12.91o		T08
4P	2021 08 25.625110	04 32 43.54	+18 57 29.6	13.63o		T05	4P	2021 09 04.622345	04 59 37.02	+18 40 22.6	12.94o		T08
4P	2021 08 26.01454	04 33 47.76	+18 57 12.7	13.4	T	A71	4P	2021 09 04.624650	04 59 37.37	+18 40 22.3	12.86o		T08
4P	2021 08 26.01550	04 33 47.91	+18 57 12.5	13.4	T	A71	4P	2021 09 05.05553	05 00 45.30	+18 39 02.8	13.6	T	A71
4P	2021 08 26.01646	04 33 48.05	+18 57 12.5	13.4	T	A71	4P	2021 09 05.05735	05 00 45.59	+18 39 02.8	13.6	T	A71
4P	2021 08 26.01742	04 33 48.21	+18 57 12.7	13.4	T	A71	4P	2021 09 05.05917	05 00 45.83	+18 39 02.3	13.6	T	A71
4P	2021 08 26.01839	04 33 48.34	+18 57 12.2	13.4	T	A71	4P	2021 09 05.06100	05 00 46.17	+18 39 02.2	13.6	T	A71
4P	2021 08 26.01935	04 33 48.53	+18 57 12.2	13.4	T	A71	4P	2021 09 05.06281	05 00 46.44	+18 39 01.8	13.6	T	A71
4P	2021 08 26.02030	04 33 48.67	+18 57 12.6	13.4	T	A71	4P	2021 09 05.06463	05 00 46.70	+18 39 01.5	13.6	T	A71
4P	2021 08 26.02128	04 33 48.87	+18 57 12.3	13.3	T	A71	4P	2021 09 05.06645	05 00 46.98	+18 39 01.2	13.5	T	A71
4P	2021 08 26.15095	04 34 10.08	+18 57 08.0	13.4	T	Z10	4P	2021 09 05.06828	05 00 47.28	+18 39 00.8	13.5	T	A71
4P	2021 08 26.15178	04 34 10.20	+18 57 07.9	13.4	N	213	4P	2021 09 05.11448	05 00 54.60	+18 38 53.4	14.4	T	A77
4P	2021 08 26.15804	04 34 11.25	+18 57 07.7	13.4	T	Z10	4P	2021 09 05.11857	05 00 55.25	+18 38 52.7	14.4	T	A77
4P	2021 08 26.16588	04 34 12.53	+18 57 07.6	13.3	T	Z10	4P	2021 09 05.12345	05 00 56.01	+18 38 51.9	11.8	T	A77
4P	2021 08 26.17429	04 34 13.84	+18 57 07.3	13.3	N	213	4P	2021 09 06.02337	05 03 16.97	+18 36 04.1	14.3	T	C47
4P	2021 08 26.18241	04 34 15.26	+18 57 07.1	13.3	N	213	4P	2021 09 06.03268	05 03 18.38	+18 36 01.8	14.2	T	C47
4P	2021 08 26.456613	04 35 00.39	+18 56 56.9	12.28	G	703	4P	2021 09 06.04199	05 03 19.87	+18 36 00.3	14.5	T	C47
4P	2021 08 26.462518	04 35 01.32	+18 56 56.6	12.43	G	703	4P	2021 09 06.05130	05 03 21.32	+18 35 58.5	14.4	T	C47
4P	2021 08 26.468427	04 35 02.29	+18 56 56.3	12.35	G	703	4P	2021 09 06.06061	05 03 22.69	+18 35 56.8	14.6	T	C47
4P	2021 08 26.474331	04 35 03.25	+18 56 56.0	12.33	G	703	4P	2021 09 06.19043	05 03 42.85	+18 35 34.3	12.6	T	02G40
4P	2021 08 27.423590	04 37 38.91	+18 56 07.4	12.05	G	703	4P	2021 09 06.19557	05 03 43.67	+18 35 33.3	12.6	T	02G40
4P	2021 08 27.429175	04 37 39.80	+18 56 07.0	12.37	G	703	4P	2021 09 06.20076	05 03 44.47	+18 35 32.2	12.6	T	02G40
4P	2021 08 27.434758	04 37 40.72	+18 56 06.8	12.06	G	703	4P	2021 09 07.07020	05 05 59.98	+18 32 35.6	13.4	T	970

4P	2021 09 07.07722	05 06 00.98	+18 32 33.6	13.2	T		I81
4P	2021 09 07.07765	05 06 01.08	+18 32 34.0	13.3	T		970
4P	2021 09 07.07793	05 06 01.07	+18 32 33.5	13.2	T		I81
4P	2021 09 07.07863	05 06 01.24	+18 32 33.4	13.2	T		I81
4P	2021 09 08.07980	05 08 36.11	+18 29 01.4	14.1	T		C23
4P	2021 09 08.08579	05 08 37.02	+18 29 00.0	14.1	T		C23
4P	2021 09 08.09403	05 08 38.28	+18 28 58.4	14.1	T		C23
4P	2021 09 08.09698	05 08 38.71	+18 28 56.9	13.3	T		I81
4P	2021 09 08.09911	05 08 39.04	+18 28 56.4	13.3	T		I81
4P	2021 09 08.10124	05 08 39.36	+18 28 56.0	13.3	T		I81
4P	2021 09 08.10338	05 08 39.70	+18 28 55.6	13.3	T		I81
4P	2021 09 08.15468	05 08 47.55	+18 28 45.2	13.4	T	K	970
4P	2021 09 08.15882	05 08 48.18	+18 28 44.3	13.4	T	K	970
4P	2021 09 08.601068	05 09 56.27	+18 27 09.2	13.08o			T08
4P	2021 09 08.607094	05 09 57.22	+18 27 07.8	14.14o			T08
4P	2021 09 08.611306	05 09 57.81	+18 27 07.0	13.06o			T08
4P	2021 09 08.617669	05 09 58.78	+18 27 05.5	13.13o			T08
4P	2021 09 09.04575	05 11 04.55	+18 25 23.7	13.9	T		A71
4P	2021 09 09.04630	05 11 04.64	+18 25 23.9	13.9	T		A71
4P	2021 09 09.04684	05 11 04.72	+18 25 23.7	13.9	T		A71
4P	2021 09 09.17468	05 11 24.22	+18 24 56.3	13.6	N		J22
4P	2021 09 09.17853	05 11 24.81	+18 24 55.1	13.6	N		J22
4P	2021 09 09.18233	05 11 25.40	+18 24 54.3	13.6	N		J22
4P	2021 09 10.39043	05 14 29.66	+18 20 01.9	11.0	T		82H06
4P	2021 09 10.39123	05 14 29.75	+18 20 01.7	13.6	N		82H06
4P	2021 09 10.39204	05 14 29.89	+18 20 01.5				82H06
4P	2021 09 10.39516	05 14 30.35	+18 20 00.8				82H06
4P	2021 09 10.551045	05 14 53.92	+18 19 23.2	13.29c			T05
4P	2021 09 10.568187	05 14 56.49	+18 19 19.1	13.27c			T05
4P	2021 09 10.571888	05 14 57.04	+18 19 18.2	13.27c			T05
4P	2021 09 10.578791	05 14 58.08	+18 19 16.6	13.31c			T05
4P	2021 09 10.77779	05 15 28.06	+18 18 31.5	13.1	T		Q38
4P	2021 09 10.77977	05 15 28.41	+18 18 32.1	13.3	T		Q38
4P	2021 09 10.78172	05 15 28.77	+18 18 31.3	13.3	T		Q38
4P	2021 09 10.78369	05 15 28.99	+18 18 30.4	13.2	T		Q38
4P	2021 09 10.78527	05 15 29.33	+18 18 30.0	13.3	T		Q38
4P	2021 09 10.96824	05 15 57.12	+18 17 34.0	13.8	T		L79
4P	2021 09 10.97097	05 15 57.52	+18 17 33.3	13.7	T		L79
4P	2021 09 10.97351	05 15 57.89	+18 17 32.7	13.8	T		L79
4P	2021 09 11.071412	05 16 12.35	+18 17 08.0	12.8	T	O	G23
4P	2021 09 11.08588	05 16 14.85	+18 17 04.2	13.5	N		J01
4P	2021 09 11.08955	05 16 15.32	+18 17 03.3	13.5	N		J01
4P	2021 09 11.091192	05 16 15.35	+18 17 03.4	12.7	T	O	G23
4P	2021 09 11.10018	05 16 17.00	+18 17 00.8	14.2	T		G20
4P	2021 09 11.11098	05 16 18.63	+18 16 58.1	14.2	T		G20
4P	2021 09 11.12255	05 16 20.35	+18 16 55.1	14.2	T		G20
4P	2021 09 11.12634	05 16 20.89	+18 16 54.3	13.5	N		J01
4P	2021 09 11.44003	05 17 08.07	+18 15 34.2	13.2	T	K	H47
4P	2021 09 11.44547	05 17 08.89	+18 15 32.8	13.2	T	K	H47
4P	2021 09 11.45126	05 17 09.73	+18 15 31.3	13.2	T	K	H47
4P	2021 09 12.081817	05 18 44.75	+18 12 47.8	12.0	T	I	G23
4P	2021 09 12.09553	05 18 46.68	+18 12 37.2	13.5	N		J01
4P	2021 09 12.100174	05 18 47.07	+18 12 36.3	12.7	T		G23
4P	2021 09 12.10469	05 18 48.04	+18 12 35.1	13.5	N		J01
4P	2021 09 12.11916	05 18 50.26	+18 12 31.6	14.0	T		Z10
4P	2021 09 12.121366	05 18 50.24	+18 12 29.8	12.6	T		G23
4P	2021 09 12.12615	05 18 51.25	+18 12 29.2	14.0	T		Z10
4P	2021 09 12.13390	05 18 52.45	+18 12 27.3	14.0	T		Z10
4P	2021 09 12.14361	05 18 53.83	+18 12 24.7	13.6	N		J01
4P	2021 09 12.573315	05 19 58.03	+18 10 29.7	12.67o			T08
4P	2021 09 12.576545	05 19 58.52	+18 10 28.7	12.80o			T08
4P	2021 09 12.587163	05 20 00.07	+18 10 25.8	12.76o			T08
4P	2021 09 12.594549	05 20 01.16	+18 10 23.9	12.74o			T08
4P	2021 09 13.04886	05 21 08.49	+18 08 13.2	12.4	G	K	C32
4P	2021 09 13.05779	05 21 09.88	+18 08 11.1	12.4	G	K	C32
4P	2021 09 13.06480	05 21 11.30	+18 08 08.9			K	G18
4P	2021 09 13.06943	05 21 11.74	+18 08 08.4	12.5	G	K	C32
4P	2021 09 13.07215	05 21 12.42	+18 08 06.8			K	G18
4P	2021 09 13.07535	05 21 12.51	+18 08 06.2	12.4	G	K	C32
4P	2021 09 13.426334	05 22 04.51	+18 06 27.7	11.87G			703
4P	2021 09 13.431191	05 22 05.31	+18 06 26.3	11.92G			703
4P	2021 09 13.436045	05 22 06.05	+18 06 25.0	11.99G			703
4P	2021 09 13.440897	05 22 06.70	+18 06 23.6	11.88G			703
4P	2021 09 14.22829	05 24 03.49	+18 02 31.5	13.1	T	00	851
4P	2021 09 14.22990	05 24 03.73	+18 02 31.1	13.1	T	00	851
4P	2021 09 14.23163	05 24 04.00	+18 02 30.5	13.1	T	00	851
4P	2021 09 14.23328	05 24 04.25	+18 02 30.0	13.5	T	00	851
4P	2021 09 14.23405	05 24 04.37	+18 02 29.8	13.4	T	00	851
4P	2021 09 14.23484	05 24 04.46	+18 02 29.7	13.2	T	00	851
4P	2021 09 14.23561	05 24 04.57	+18 02 29.1	13.3	T	00	851
4P	2021 09 14.23639	05 24 04.69	+18 02 29.3	13.3	T	00	851
4P	2021 09 14.23716	05 24 04.80	+18 02 28.7	13.3	T	00	851
4P	2021 09 14.23794	05 24 04.92	+18 02 28.8	13.2	T	00	851
4P	2021 09 14.23949	05 24 05.13	+18 02 28.2	13.3	T	00	851
4P	2021 09 14.24028	05 24 05.25	+18 02 28.1	13.2	T	00	851
4P	2021 09 14.87069	05 25 37.27	+17 59 22.5	14	R		C51
Geocentric position (km)		− 2734.8284	+ 6059.1489	+ 1652.7653			
4P	2021 09 14.87082	05 25 37.28	+17 59 22.2				C51
Geocentric position (km)		− 2733.0978	+ 6081.5409	+ 1571.8487			
4P	2021 09 15.00146	05 25 56.43	+17 58 42.6				C51
Geocentric position (km)		− 2747.4776	+ 6065.9081	+ 1606.6109			
4P	2021 09 15.13211	05 26 15.53	+17 58 02.2				C51
Geocentric position (km)		− 2761.7225	+ 6050.0853	+ 1641.2778			
4P	2021 09 15.13224	05 26 15.53	+17 58 02.2				C51
Geocentric position (km)		− 2760.0325	+ 6072.3641	+ 1560.2970			
4P	2021 09 15.29517	05 26 39.86	+17 57 08.2	13.8	T	00	851
4P	2021 09 15.29674	05 26 40.09	+17 57 07.8	13.8	T	00	851
4P	2021 09 15.29751	05 26 40.21	+17 57 07.6	13.9	T	00	851
4P	2021 09 15.29829	05 26 40.32	+17 57 07.1	14.0	T	00	851
4P	2021 09 15.29905	05 26 40.43	+17 57 06.7	14.1	T	00	851
4P	2021 09 15.29984	05 26 40.54	+17 57 06.8	13.9	T	00	851
4P	2021 09 15.30061	05 26 40.65	+17 57 06.5	14.0	T	00	851
4P	2021 09 15.30139	05 26 40.76	+17 57 06.2	13.7	T	00	851
4P	2021 09 15.30216	05 26 40.85	+17 57 05.9	13.8	T	00	851
4P	2021 09 16.06950	05 28 32.54	+17 53 03.3	14.1	T		C23
4P	2021 09 16.07383	05 28 33.16	+17 53 02.0	14.0	T		C23

4P	2021 09 16.07960	05 28 33.98	+17 53 00.2	14.0	T		C23
4P	2021 09 16.12076	05 28 39.92	+17 52 47.0	13.6	T		970
4P	2021 09 16.12572	05 28 40.63	+17 52 45.5	13.6	T		970
4P	2021 09 16.21178	05 28 53.01	+17 52 21.0	14.2	N		J22
4P	2021 09 16.21567	05 28 53.57	+17 52 19.3	14.2	N		J22
4P	2021 09 16.21954	05 28 54.08	+17 52 18.5	14.2	N		J22
4P	2021 09 17.14032	05 31 07.07	+17 47 16.3	14.0	T		Z10
4P	2021 09 17.14743	05 31 08.09	+17 47 14.0	14.0	T		Z10
4P	2021 09 17.15527	05 31 09.19	+17 47 11.2	14.0	T		Z10
4P	2021 09 18.597708	05 34 34.88	+17 39 03.7	13.05o			T05
4P	2021 09 18.602297	05 34 35.54	+17 39 01.9	14.22o			T05
4P	2021 09 18.613188	05 34 37.03	+17 38 58.3	13.09o			T05
4P	2021 09 18.625301	05 34 38.70	+17 38 54.2	12.96o			T05
4P	2021 09 19.15688	05 35 53.82	+17 35 44.7	11.2	T		A77
4P	2021 09 19.15899	05 35 54.16	+17 35 43.7	14.1	T		A77
4P	2021 09 19.16142	05 35 54.49	+17 35 42.9	14.1	T		A77

6P/d'Arrest

6P	2021 07 11.86805	16 09 42.14	+11 34 53.7	16.9	T	K	204
6P	2021 07 11.90734	16 09 41.87	+11 34 02.5			K	204
6P	2021 07 17.55255	16 09 58.42	+09 22 54.8				D95
6P	2021 07 17.55792	16 09 58.50	+09 22 46.7				D95
6P	2021 07 17.56115	16 09 58.49	+09 22 41.8	16.7	T		D95
6P	2021 08 02.96757	16 19 32.12	+01 43 09.8	16.9	T		X03
6P	2021 08 02.96857	16 19 30.82	+01 43 00.1	16	R		C51
Geocentric position (km)		− 2333.1474	− 6434.6061	+	314.0474		
6P	2021 08 02.98267	16 19 32.93	+01 42 42.1	17.0	T	K	X03
6P	2021 08 02.99274	16 19 33.48	+01 42 23.5	17.0	T	K	X03
6P	2021 08 03.16403	16 19 43.55	+01 37 00.9				C51
Geocentric position (km)		− 2266.8934	− 6465.8635	−	82.8538		
6P	2021 08 03.42596	16 19 59.41	+01 28 54.1				C51
Geocentric position (km)		− 2275.7695	− 6458.0351	+	248.3780		
6P	2021 08 03.55623	16 20 07.35	+01 24 52.5				C51
Geocentric position (km)		− 2228.1304	− 6479.6178	−	43.9387		
6P	2021 08 03.55744	16 20 07.08	+01 24 43.3	15.7	T		D95
6P	2021 08 03.55960	16 20 07.18	+01 24 38.7				D95
6P	2021 08 03.56282	16 20 07.35	+01 24 33.1				D95
6P	2021 08 03.81804	16 20 24.41	+01 16 39.4				C51
Geocentric position (km)		− 2227.5619	− 6476.3906	+	204.1551		
6P	2021 08 05.49770	16 22 11.92	+00 24 06.0			K	P87
6P	2021 08 05.51031	16 22 12.72	+00 23 42.1	14.0	T	K	P87
6P	2021 08 06.299507	16 23 06.759	−00 01 10.45	17.75w			F51
6P	2021 08 06.311712	16 23 07.554	−00 01 33.57	17.75w			F51
6P	2021 08 06.315305	16 23 07.79	−00 01 40.3	17.41c			T08
6P	2021 08 06.319015	16 23 08.04	−00 01 47.2	17.35c			T08
6P	2021 08 06.323917	16 23 08.357	−00 01 56.79	17.77w			F51
6P	2021 08 06.325454	16 23 08.45	−00 01 59.4	17.52c			T08
6P	2021 08 06.337483	16 23 09.25	−00 02 22.4	17.58c			T08
6P	2021 08 06.49278	16 23 20.24	−00 07 21.0			K	Q23
6P	2021 08 06.50455	16 23 21.01	−00 07 43.3	16.2	T	K	Q23
6P	2021 08 06.85426	16 23 45.94	−00 18 51.3	17.0	T		A77
6P	2021 08 06.86089	16 23 46.39	−00 19 03.6	16.9	T		A77
6P	2021 08 06.86832	16 23 46.89	−00 19 17.9	16.9	T		A77
6P	2021 08 07.11843	16 24 04.85	−00 27 15.3	16.9	T		750
6P	2021 08 07.12816	16 24 05.50	−00 27 35.7	17.0	T		750
6P	2021 08 08.88647	16 26 17.17	−01 23 52.8	17.4	N	K	A77
6P	2021 08 08.89453	16 26 17.77	−01 24 08.6	17.3	N	K	A77
6P	2021 08 08.90184	16 26 18.38	−01 24 22.2	17.3	N	K	A77
6P	2021 08 09.41766	16 26 59.13	−01 40 45.0	16.4	T		Q38
6P	2021 08 09.42125	16 26 59.41	−01 40 52.6	17.4	T		Q38
6P	2021 08 09.42525	16 26 59.42	−01 41 01.7	17.0	T		Q38
6P	2021 08 09.83481	16 27 32.43	−01 54 30.8	17.2	T		A77
6P	2021 08 09.84211	16 27 32.96	−01 54 44.9	17.3	T		A77
6P	2021 08 09.85021	16 27 33.59	−01 55 00.6	17.3	T		A77
6P	2021 08 10.290721	16 28 09.34	−02 09 13.0	17.29c			T08
6P	2021 08 10.293947	16 28 09.59	−02 09 19.2	17.79c			T08
6P	2021 08 10.299474	16 28 10.01	−02 09 29.9	17.13c			T08
6P	2021 08 10.316520	16 28 11.33	−02 10 03.1	17.12c			T08
6P	2021 08 10.48444	16 28 25.43	−02 15 37.3	16.3	T		Q21
6P	2021 08 10.48633	16 28 25.61	−02 15 39.3	17.2	T		Q21
6P	2021 08 11.43152	16 29 44.67	−02 46 08.9	16.1	T	K	E89
6P	2021 08 11.44000	16 29 45.36	−02 46 25.7	15.5	T	K	E89
6P	2021 08 11.87222	16 30 22.84	−03 00 48.9	16.9	T	K	C23
6P	2021 08 11.87510	16 30 23.03	−03 00 55.3	17.2	T	K	C23
6P	2021 08 11.87799	16 30 23.32	−03 01 00.6	17.2	T	K	C23
6P	2021 08 12.285066	16 30 58.94	−03 14 15.2	16.79o			T05
6P	2021 08 12.288276	16 30 59.22	−03 14 21.4	16.89o			T05
6P	2021 08 12.295199	16 30 59.80	−03 14 35.1	16.90o			T05
6P	2021 08 12.305404	16 31 00.66	−03 14 55.4	16.70o			T05
6P	2021 08 12.84503	16 31 48.83	−03 32 40.6	17.1	T		A77
6P	2021 08 12.84989	16 31 49.25	−03 32 50.3	17.1	T		A77
6P	2021 08 12.85557	16 31 49.80	−03 33 01.5	17.2	T		A77
6P	2021 08 13.54198	16 32 52.44	−03 55 35.4	14.2	T		G26
6P	2021 08 13.57049	16 32 54.62	−03 56 33.7	13.0	T		G26
6P	2021 08 13.83892	16 33 19.65	−04 05 22.2	16.7	T		A77
6P	2021 08 13.84461	16 33 20.19	−04 05 33.9	16.6	T		A77
6P	2021 08 13.85029	16 33 20.63	−04 05 44.9	16.7	T		A77
6P	2021 08 13.88443	16 33 23.81	−04 06 52.0	16.1	T	K	J01
6P	2021 08 13.90961	16 33 26.06	−04 07 41.6	17.2	T	K	J01
6P	2021 08 14.279049	16 34 00.82	−04 19 48.7	16.59o			T08
6P	2021 08 14.289190	16 34 01.67	−04 20 08.8	16.58o			T08
6P	2021 08 14.293347	16 34 02.09	−04 20 16.7	16.58o			T08
6P	2021 08 14.299365	16 34 02.61	−04 20 28.7	16.53o			T08
6P	2021 08 14.84718	16 34 54.99	−04 38 40.2	16.5	T		B96
6P	2021 08 14.85207	16 34 55.48	−04 38 49.8	16.5	T		B96
6P	2021 08 14.85732	16 34 55.88	−04 39 00.6	16.8	T		B96
6P	2021 08 14.86762	16 34 56.78	−04 39 19.7	16.3	T		C23
6P	2021 08 14.87050	16 34 57.04	−04 39 24.9	16.9	T		C23
6P	2021 08 14.87483	16 34 57.43	−04 39 34.0	16.9	T		C23
6P	2021 08 15.272334	16 35 35.95	−04 52 38.1	16.76o			T05
6P	2021 08 15.275554	16 35 36.24	−04 52 44.4	16.73o			T05
6P	2021 08 15.282416	16 35 36.86	−04 52 58.0	16.80o			T05
6P	2021 08 15.293881	16 35 37.98	−04 53 20.5	16.83o			T05
6P	2021 08 15.40946	16 35 49.50	−04 56 59.8	17.2	T		Q38
6P	2021 08 15.41111	16 35 49.73	−04 57 02.6	16.6	T		Q38
6P	2021 08 15.41321	16 35 49.87	−04 57 06.5	16.3	T		Q38

6P	2021 08 15.41444	16 35 49.98	−04 57 09.0	16.3 T		Q38
6P	2021 08 18.283904	16 40 42.73	−06 32 35.2	16.89o		T08
6P	2021 08 18.287129	16 40 43.04	−06 32 41.5	17.14o		T08
6P	2021 08 18.294523	16 40 43.83	−06 32 56.3	17.08o		T08
6P	2021 08 18.307635	16 40 45.16	−06 33 22.4	16.82o		T08
6P	2021 08 18.48392	16 41 04.09	−06 39 17.6	14.3 T		349
6P	2021 08 18.49241	16 41 04.98	−06 39 34.7			349
6P	2021 08 18.50089	16 41 05.85	−06 39 51.5			349
6P	2021 08 18.799255	16 41 38.07	−06 49 47.5	16.7 T	K	G23
6P	2021 08 18.813448	16 41 39.56	−06 50 17.2	16.6 T	K	G23
6P	2021 08 18.827639	16 41 41.07	−06 50 44.5	16.2 T	K	G23
6P	2021 08 20.280922	16 44 21.41	−07 39 05.9	16.33o		T05
6P	2021 08 20.284141	16 44 21.75	−07 39 12.0	17.20o		T05
6P	2021 08 20.291018	16 44 22.50	−07 39 25.6	17.21o		T05
6P	2021 08 20.302509	16 44 23.73	−07 39 48.8	16.71o		T05
6P	2021 08 21.309119	16 46 18.54	−08 13 20.2	16.49o		T08
6P	2021 08 21.312804	16 46 18.95	−08 13 27.8	16.74o		T08
6P	2021 08 21.320637	16 46 19.84	−08 13 43.5	16.53o		T08
6P	2021 08 21.331310	16 46 21.03	−08 14 04.6	16.90o		T08
6P	2021 08 22.325876	16 48 17.57	−08 47 12.3	16.52o		T08
6P	2021 08 22.330035	16 48 18.05	−08 47 20.3	16.73o		T08
6P	2021 08 22.336967	16 48 18.84	−08 47 33.9	16.52o		T08
6P	2021 08 22.350337	16 48 20.40	−08 48 00.9	16.59o		T08
6P	2021 08 23.813621	16 51 17.66	−09 36 45.4	16.9 T	K	L74
6P	2021 08 23.838174	16 51 20.59	−09 37 34.0	17.3 T	K	L74
6P	2021 08 23.861280	16 51 23.36	−09 38 19.7	17.3 T	K	L74
6P	2021 08 24.339754	16 52 22.53	−09 54 10.3	16.22o		T05
6P	2021 08 24.342975	16 52 22.92	−09 54 16.7	16.45o		T05
6P	2021 08 24.348951	16 52 23.65	−09 54 28.2	16.54o		T05
6P	2021 08 24.359050	16 52 24.89	−09 54 48.7	16.61o		T05
6P	2021 08 24.55270	16 52 50.19	−10 01 23.1	13.8 T		G26
6P	2021 08 24.58067	16 52 52.95	−10 02 14.9	13.5 T		G26
6P	2021 08 25.80650	16 55 28.85	−10 42 51.7	15.6 T		A71
6P	2021 08 25.81024	16 55 29.38	−10 42 59.0	15.7 T		A71
6P	2021 08 25.81497	16 55 29.95	−10 43 08.5	15.6 T		A71
6P	2021 08 25.81714	16 55 30.15	−10 43 12.6	15.7 T		A71
6P	2021 08 25.81932	16 55 30.45	−10 43 17.7	15.5 T		A71
6P	2021 08 25.81941	16 55 30.50	−10 43 16.6	16.3 T	K	215
6P	2021 08 25.82070	16 55 30.68	−10 43 18.8	16.4 T	K	215
6P	2021 08 25.82199	16 55 30.94	−10 43 21.4	16.2 T	K	215
6P	2021 08 26.265820	16 56 28.45	−10 57 59.2	16.34o		T08
6P	2021 08 26.269968	16 56 28.98	−10 58 07.4	16.36o		T08
6P	2021 08 26.276872	16 56 29.84	−10 58 21.1	16.32o		T08
6P	2021 08 26.287934	16 56 31.25	−10 58 42.9	16.38o		T08
6P	2021 08 27.287910	16 58 43.18	−11 31 42.6	16.27c		T05
6P	2021 08 27.291119	16 58 43.60	−11 31 49.0	16.32c		T05
6P	2021 08 27.297580	16 58 44.43	−11 32 01.6	16.23c		T05
6P	2021 08 27.310429	16 58 46.10	−11 32 27.2	16.34c		T05
6P	2021 08 27.86328	17 00 00.68	−11 50 42.3	16.2 N		J01
6P	2021 08 27.87014	17 00 01.53	−11 50 52.6	16.2 N		J01
6P	2021 08 27.87703	17 00 02.52	−11 51 11.8	16.1 N		J01
6P	2021 08 27.87912	17 00 02.70	−11 51 13.1	16.8 T	K	Z10
6P	2021 08 27.88600	17 00 03.58	−11 51 26.3	16.8 T	K	Z10
6P	2021 08 28.274742	17 00 56.42	−12 04 09.9	17.21c		T05
6P	2021 08 28.284851	17 00 57.73	−12 04 30.1	17.20c		T05
6P	2021 08 28.294555	17 00 58.90	−12 04 49.8	16.22c		T05
6P	2021 08 28.295013	17 00 59.08	−12 04 49.8	16.49c		T05
6P	2021 08 28.39585	17 01 12.88	−12 07 57.1	16.7 T	K	Q81
6P	2021 08 28.41339	17 01 15.23	−12 08 31.3	16.9 T	K	Q81
6P	2021 08 28.43094	17 01 17.54	−12 09 05.7	17.0 T	K	Q81
6P	2021 08 28.44779	17 01 19.80	−12 09 38.5	16.8 T	K	Q81
6P	2021 08 28.46579	17 01 22.23	−12 10 14.9	17.1 T	K	Q81
6P	2021 08 28.47919	17 01 24.39	−12 10 55.2	14.2 T		Q11
6P	2021 08 28.48730	17 01 25.08	−12 10 56.1	16.8 T	K	Q81
6P	2021 08 28.48837	17 01 25.56	−12 11 13.1			Q11
6P	2021 08 28.49612	17 01 26.58	−12 11 28.3			Q11
6P	2021 08 28.83484	17 02 13.40	−12 22 35.0	16.4 N		J59
6P	2021 08 28.84742	17 02 15.06	−12 22 59.8	16.4 N		J59
6P	2021 08 28.86690	17 02 17.70	−12 23 37.8	16.3 N		J59
6P	2021 08 29.38669	17 03 30.08	−12 40 25.3	12.6 T		67Q62
6P	2021 08 29.38771	17 03 30.20	−12 40 27.4	16.1 N		67Q62
6P	2021 08 29.38865	17 03 30.34	−12 40 29.3			67Q62
6P	2021 08 29.49682	17 03 45.23	−12 44 13.1			K 367
6P	2021 08 29.49905	17 03 45.54	−12 44 17.2	13.9 T		K 367
6P	2021 08 29.84122	17 04 33.75	−12 55 27.6	16.0 N		J59
6P	2021 08 29.84948	17 04 34.94	−12 55 42.4	15.9 N		J59
6P	2021 08 29.85030	17 04 35.06	−12 55 48.8	16.1 N		J59
6P	2021 08 30.277645	17 05 35.46	−13 09 37.6	16.33o		T08
6P	2021 08 30.282252	17 05 36.09	−13 09 46.7	16.28o		T08
6P	2021 08 30.301624	17 05 38.78	−13 10 24.2	16.22o		T08
6P	2021 08 30.80927	17 06 51.79	−13 26 57.6	17.1 T		A77
6P	2021 08 30.81414	17 06 52.41	−13 27 07.2	17.1 T		A77
6P	2021 08 30.81900	17 06 53.12	−13 27 16.8	17.2 T		A77
6P	2021 08 30.82071	17 06 53.27	−13 27 19.2	16.3 T	K	L27
6P	2021 08 30.83055	17 06 54.70	−13 27 38.2	16.4 T	K	L27
6P	2021 08 30.84039	17 06 56.05	−13 27 57.2	16.3 T	K	L27
6P	2021 09 01.276189	17 10 25.75	−14 14 16.8	16.29c		T05
6P	2021 09 01.277574	17 10 25.97	−14 14 19.8	16.57c		T05
6P	2021 09 01.281703	17 10 26.55	−14 14 27.6	16.94c		T05
6P	2021 09 01.284913	17 10 27.00	−14 14 34.3	16.11c		T05
6P	2021 09 01.285370	17 10 27.07	−14 14 35.0	16.03c		T05
6P	2021 09 01.290010	17 10 27.73	−14 14 43.8	16.30c		T05
6P	2021 09 01.308884	17 10 30.44	−14 15 20.6	15.99c		T05
6P	2021 09 03.281662	17 15 28.83	−15 18 21.7	16.07o		T08
6P	2021 09 03.285814	17 15 29.46	−15 18 29.3	16.13o		T08
6P	2021 09 03.291342	17 15 30.30	−15 18 40.1	15.94o		T08
6P	2021 09 03.302409	17 15 31.95	−15 19 00.9	15.95o		T08
6P	2021 09 03.84190	17 16 55.68	−15 36 09.6	15.8 N		J01
6P	2021 09 03.85104	17 16 57.06	−15 36 24.8	15.8 N		J01
6P	2021 09 03.85561	17 16 57.74	−15 36 34.7	15.8 N		J01
6P	2021 09 04.264996	17 18 01.79	−15 49 26.6	15.89c		T05
6P	2021 09 04.268198	17 18 02.28	−15 49 32.6	15.69c		T05
6P	2021 09 04.284737	17 18 04.79	−15 50 03.7	15.74c		T05
6P	2021 09 04.88208	17 19 39.19	−16 08 51.8	16.0 T	K	Z10
6P	2021 09 04.88667	17 19 39.87	−16 09 00.5	16.4 T	K	Z10
6P	2021 09 04.89124	17 19 40.52	−16 09 09.3	16.5 T	K	Z10

6P	2021 09 05.81223	17 22 08.14	−16 37 53.0	16.9	T	K	A71
6P	2021 09 05.81817	17 22 09.06	−16 38 04.6	16.6	T	K	A71
6P	2021 09 05.82262	17 22 09.77	−16 38 12.8	16.5	T	K	A71
6P	2021 09 09.81012	17 33 16.37	−18 39 39.3	15.4	T	K	K74
6P	2021 09 09.81275	17 33 16.81	−18 39 43.6	15.6	T	K	K74
6P	2021 09 09.81531	17 33 17.18	−18 39 48.5	15.3	T	K	K74
6P	2021 09 10.42760	17 35 03.52	−18 57 47.3	16.2	T		Q38
6P	2021 09 10.42878	17 35 03.73	−18 57 48.4	15.8	T		Q38
6P	2021 09 10.43000	17 35 03.98	−18 57 50.5	16.4	T		Q38
6P	2021 09 10.83785	17 36 15.34	−19 10 04.2	15.4	N		J01
6P	2021 09 10.84012	17 36 15.85	−19 10 08.1	15.4	N		J01
6P	2021 09 10.84694	17 36 16.91	−19 10 21.1	15.1	N		J01
6P	2021 09 12.269059	17 40 29.49	−19 51 44.0	15.77o			T05
6P	2021 09 12.277372	17 40 30.97	−19 51 58.1	15.83o			T05
6P	2021 09 12.288391	17 40 32.91	−19 52 17.1	16.48o			T05

7P/Pons-Winnecke

7P	2021 01 13.518530	14 28 59.25	+10 47 10.5	19.52r			I41
7P	2021 01 13.526300	14 29 00.27	+10 47 09.3	19.32i			I41
7P	2021 01 15.526791	14 33 28.80	+10 41 11.3	19.50r			I41
7P	2021 01 15.547709	14 33 31.58	+10 41 07.5	20.17g			I41
7P	2021 01 17.540020	14 38 01.02	+10 35 31.6	19.48r			I41
7P	2021 01 17.549190	14 38 02.25	+10 35 30.0	20.35g			I41
7P	2021 05 08.01807	19 57 41.12	+01 32 42.0	15.5	T	08	094
7P	2021 05 08.01883	19 57 41.34	+01 32 40.6	15.4	T	08	094
7P	2021 05 08.02192	19 57 41.99	+01 32 36.6	15.4	T	08	094
7P	2021 05 08.02270	19 57 42.14	+01 32 35.7	15.4	T	08	094
7P	2021 05 09.99225	20 05 12.45	+00 44 35.9	15.6	T	08	094
7P	2021 05 09.99302	20 05 12.66	+00 44 34.9	15.6	T	08	094
7P	2021 05 09.99844	20 05 13.88	+00 44 26.5	15.6	T	08	094
7P	2021 05 09.99921	20 05 14.05	+00 44 25.4	15.6	T	08	094
7P	2021 05 24.00384	21 00 14.07	−06 22 21.7	15.1	T	08	094
7P	2021 05 24.00425	21 00 14.16	−06 22 22.6	15.1	T	08	094
7P	2021 05 24.00912	21 00 15.33	−06 22 33.2	15.0	T	08	094
7P	2021 05 24.01089	21 00 15.73	−06 22 36.9	15.0	T	08	094
7P	2021 05 26.03729	21 08 22.30	−07 35 57.0	14.9	T	08	094
7P	2021 05 26.03770	21 08 22.38	−07 35 57.7	14.8	T	08	094
7P	2021 05 26.04669	21 08 24.47	−07 36 17.8	15.0	T	08	094
7P	2021 05 26.04709	21 08 24.60	−07 36 18.9	14.9	T	08	094
7P	2021 05 26.07565	21 08 31.66	−07 37 21.9	14.7	T	K	204
7P	2021 05 26.08319	21 08 33.46	−07 37 39.0			K	204
7P	2021 05 26.09074	21 08 35.27	−07 37 55.2			K	204
7P	2021 07 17.67784	23 54 25.01	−41 07 45.1	11	T		C59
Geocentric position (km)		− 3677.8009	+ 5758.5740	− 3761.8535			
7P	2021 07 18.72923	23 55 55.88	−41 37 50.1	11	T		C59
Geocentric position (km)		+ 1602.2625	+ 5780.1810	− 3386.0080			
7P	2021 08 02.10822	00 07 14.73	−47 22 01.3			01	L81
7P	2021 08 02.11564	00 07 14.74	−47 22 10.0	16.3	T	01	L81
7P	2021 08 02.12252	00 07 14.76	−47 22 17.7			01	L81
7P	2021 08 07.519095	00 07 05.85	−48 58 30.0	14.66o			T05
7P	2021 08 07.520927	00 07 05.82	−48 58 32.3	15.40o			T05
7P	2021 08 07.523670	00 07 05.75	−48 58 34.5	14.68o			T05
7P	2021 08 07.529156	00 07 05.65	−48 58 40.6	15.45o			T05
7P	2021 08 09.78891	00 06 22.10	−49 32 59.0	14.4	T		Q38
7P	2021 08 09.79203	00 06 22.04	−49 33 01.5	14.4	T		Q38
7P	2021 08 09.79508	00 06 21.83	−49 33 03.4	13.8	T		Q38
7P	2021 08 11.576499	00 05 33.62	−49 57 54.6	14.73o			T05
7P	2021 08 11.579271	00 05 33.52	−49 57 56.7	14.70o			T05
7P	2021 08 11.587534	00 05 33.20	−49 58 03.1	14.69o			T05
7P	2021 08 11.608978	00 05 32.41	−49 58 20.3	15.49o			T05
7P	2021 08 14.24120	00 03 59.25	−50 30 32.1	15.0	T	14	W88
7P	2021 08 14.24661	00 03 58.99	−50 30 36.0	15.0	T	14	W88
7P	2021 08 14.25231	00 03 58.72	−50 30 40.0	15.0	T	14	W88
7P	2021 08 15.67233	00 02 57.16	−50 46 01.4	14.7	T	K	E94
7P	2021 08 15.68254	00 02 56.61	−50 46 06.9	14.7	T	K	E94
7P	2021 08 15.69273	00 02 56.10	−50 46 13.6	14.8	T	K	E94
7P	2021 08 15.70291	00 02 55.58	−50 46 19.5	14.6	T	K	E94
7P	2021 08 24.62228	23 54 28.48	−51 49 53.9	15.3	T	K	E94
7P	2021 08 24.63431	23 54 27.60	−51 49 56.3	15.3	T	K	E94
7P	2021 08 24.64638	23 54 26.73	−51 49 59.2	15.3	T	K	E94
7P	2021 08 24.65848	23 54 25.85	−51 50 01.7	15.4	T	K	E94
7P	2021 08 28.51024	23 50 02.32	−52 00 03.1	13.0	T	67	Q62
7P	2021 08 28.51184	23 50 02.19	−52 00 03.2	15.7	N	67	Q62
7P	2021 08 29.40670	23 48 56.91	−52 00 53.6	16.1	T	23	W88
7P	2021 08 29.41375	23 48 56.40	−52 00 54.5	16.5	T	23	W88
7P	2021 08 29.42086	23 48 55.89	−52 00 54.1	16.8	T	23	W88
7P	2021 09 10.48554	23 34 39.54	−51 22 08.5	15.8	T		Q38
7P	2021 09 10.48715	23 34 39.38	−51 22 07.8	15.8	T		Q38
7P	2021 09 10.48872	23 34 39.29	−51 22 07.1	15.8	T		Q38
7P	2021 09 10.49068	23 34 39.15	−51 22 06.7	14.3	T		Q38

8P/Tuttle

8P	2021 08 10.77677	07 47 33.72	+18 17 09.4				349
8P	2021 08 10.77829	07 47 34.05	+18 17 05.2	11.2	T		349
8P	2021 08 18.78647	08 13 20.57	+12 31 53.2				349
8P	2021 08 18.78963	08 13 21.12	+12 31 45.7	11.0	T		349
8P	2021 08 25.80133	08 35 46.57	+07 09 25.5	10.8	T		349
8P	2021 08 25.80332	08 35 46.90	+07 09 20.8				349
8P	2021 09 02.41664	09 00 13.62	+01 04 12.4	12.1	T	14	W88
8P	2021 09 02.41751	09 00 13.75	+01 04 09.6	12.5	T	14	W88
8P	2021 09 02.41839	09 00 13.95	+01 04 06.8	12.5	T	14	W88
8P	2021 09 03.41617	09 03 27.31	+00 15 27.9	12.6	T	14	W88
8P	2021 09 03.41704	09 03 27.48	+00 15 25.3	12.6	T	14	W88
8P	2021 09 03.41791	09 03 27.64	+00 15 22.6	12.6	T	14	W88
8P	2021 09 04.80832	09 07 57.78	−00 52 34.5	12.1	T		Q38
8P	2021 09 04.80919	09 07 57.98	−00 52 38.4	12.1	T		Q38
8P	2021 09 04.81008	09 07 58.21	−00 52 40.0	12.0	T		Q38
8P	2021 09 04.81185	09 07 58.53	−00 52 47.3	12.0	T		Q38
8P	2021 09 04.81275	09 07 58.75	−00 52 48.7	12.1	T		Q38
8P	2021 09 04.81363	09 07 58.86	−00 52 51.4	12.1	T		Q38
8P	2021 09 05.41014	09 09 54.82	−01 22 05.3	11.9	T	03	W88
8P	2021 09 05.41324	09 09 55.43	−01 22 14.7	12.1	T	03	W88
8P	2021 09 09.40571	09 22 56.56	−04 38 20.6	13.9	T	23	W88
8P	2021 09 09.40775	09 22 56.92	−04 38 27.4	13.8	T	23	W88
8P	2021 09 10.80344	09 27 31.65	−05 47 00.9	12.7	T		Q38
8P	2021 09 10.80462	09 27 32.00	−05 47 05.6	12.6	T		Q38

8P	2021 09 10.80580	09 27 32.13	−05 47 08.5	12.7 T		Q38
8P	2021 09 10.80737	09 27 32.32	−05 47 14.2	12.7 T		Q38
8P	2021 09 10.80854	09 27 32.73	−05 47 16.5	10.7 T		Q38
8P	2021 09 16.39522	09 46 03.33	−10 20 22.4	13.3 T		23W88
8P	2021 09 16.39846	09 46 03.96	−10 20 32.1	13.3 T		23W88

10P/Tempel

10P	2021 08 04.71072	04 04 50.92	+08 56 10.8	14.0 T		349
10P	2021 08 04.72000	04 04 51.83	+08 56 12.0			349
10P	2021 08 08.15299	04 10 10.35	+08 59 29.7	17.4 T		Z10
10P	2021 08 08.16008	04 10 11.00	+08 59 30.6	17.7 T		Z10
10P	2021 08 08.16800	04 10 11.59	+08 59 31.9	17.7 T		Z10
10P	2021 08 09.39154	04 12 01.76	+09 00 26.2	18.0 T		X03
10P	2021 08 09.40014	04 12 02.51	+09 00 26.8	17.4 T	K	X03
10P	2021 08 09.40950	04 12 03.34	+09 00 27.4	17.5 T	K	X03
10P	2021 08 09.41906	04 12 04.17	+09 00 26.8	17.7 T		X03
10P	2021 08 09.43594	04 12 05.63	+09 00 27.6	18.1 T		X03
10P	2021 08 10.07967	04 13 02.85	+09 00 45.1	16.9 T	K	215
10P	2021 08 10.08096	04 13 02.97	+09 00 44.9	17.0 T	K	215
10P	2021 08 10.08225	04 13 03.09	+09 00 44.7	17.3 T	K	215
10P	2021 08 11.11137	04 14 33.33	+09 01 12.5	18.0 T		A77
10P	2021 08 11.11786	04 14 33.87	+09 01 12.6	17.8 T		A77
10P	2021 08 11.12515	04 14 34.50	+09 01 13.1	15.6 T		A77
10P	2021 08 12.041888	04 15 53.66	+09 01 31.3	16.9 T	K	L54
10P	2021 08 12.048447	04 15 54.25	+09 01 31.5	16.9 T	K	L54
10P	2021 08 12.055823	04 15 54.92	+09 01 32.3	16.9 T	K	L54
10P	2021 08 12.524350	04 16 35.02	+09 01 40.3	18.02o		T05
10P	2021 08 12.549094	04 16 37.14	+09 01 41.0	17.94o		T05
10P	2021 08 12.555188	04 16 37.62	+09 01 41.4	17.97o		T05
10P	2021 08 12.559335	04 16 37.97	+09 01 41.6	17.95o		T05
10P	2021 08 14.08367	04 18 46.23	+09 01 54.2	16.5 T	K	C23
10P	2021 08 14.08655	04 18 46.50	+09 01 51.5	17.7 T	K	C23
10P	2021 08 14.08944	04 18 46.73	+09 01 52.3	17.3 T	K	C23
10P	2021 08 14.11451	04 18 48.78	+09 01 52.4	17.1 T		A77
10P	2021 08 14.11867	04 18 49.13	+09 01 52.6	17.0 T		A77
10P	2021 08 14.12363	04 18 49.54	+09 01 52.8	17.3 T		A77
10P	2021 08 15.12189	04 20 11.80	+09 01 52.8	17.3 T	K	C10
10P	2021 08 15.13176	04 20 12.62	+09 01 52.7	17.4 T	K	C10
10P	2021 08 15.14155	04 20 13.47	+09 01 53.0	17.3 T	K	C10
10P	2021 08 18.16135	04 24 14.29	+09 01 10.1	18.0 T	K	Z10
10P	2021 08 18.16769	04 24 14.79	+09 01 08.8	17.9 T	K	Z10
10P	2021 08 18.17559	04 24 15.42	+09 01 09.2	18.3 T	K	Z10
10P	2021 08 18.579971	04 24 46.76	+09 01 00.6	18.26c		T08
10P	2021 08 18.583196	04 24 47.00	+09 01 00.5	18.11c		T08
10P	2021 08 18.591146	04 24 47.62	+09 01 00.3	18.14c		T08
10P	2021 08 18.606966	04 24 48.81	+09 01 00.8	18.07c		T08
10P	2021 08 19.620264	04 26 06.24	+09 00 29.4	18.33o		T08
10P	2021 08 19.623064	04 26 06.42	+09 00 29.2	18.31o		T08
10P	2021 08 19.629676	04 26 06.93	+09 00 28.9	18.21o		T08
10P	2021 08 25.571097	04 33 12.127	+08 55 20.00	18.51i		F52
10P	2021 08 25.583207	04 33 12.928	+08 55 19.28	18.43i		F52
10P	2021 08 25.595318	04 33 13.728	+08 55 18.46	18.42i		F52
10P	2021 08 25.607422	04 33 14.521	+08 55 17.61	18.25i		F52
10P	2021 08 25.608634	04 33 14.62	+08 55 18.2	18.11o		T05
10P	2021 08 25.612760	04 33 14.86	+08 55 17.5	18.16o		T05
10P	2021 08 25.620264	04 33 15.35	+08 55 17.0	17.99o		T05
10P	2021 08 25.632689	04 33 16.22	+08 55 16.3	17.64o		T05
10P	2021 08 25.72470	04 33 22.45	+08 55 08.7	14.5 T		349
10P	2021 08 25.73410	04 33 23.09	+08 55 08.3			349
10P	2021 08 26.564377	04 34 18.27	+08 54 08.3	18.05o		T08
10P	2021 08 26.571748	04 34 18.73	+08 54 07.6	18.08o		T08
10P	2021 08 26.574974	04 34 18.96	+08 54 07.3	18.08o		T08
10P	2021 08 26.586939	04 34 19.73	+08 54 06.0	17.83o		T08
10P	2021 08 27.598111	04 35 25.46	+08 52 47.0	18.26o		T08
10P	2021 08 27.601808	04 35 25.68	+08 52 47.0	18.25o		T08
10P	2021 08 27.620202	04 35 26.85	+08 52 45.6	18.16o		T08
10P	2021 08 27.625726	04 35 27.19	+08 52 45.7	18.21o		T08
10P	2021 08 29.544434	04 37 27.81	+08 49 57.2	17.78o		T05
10P	2021 08 29.555634	04 37 28.49	+08 49 56.5	17.84o		T05
10P	2021 08 29.562061	04 37 28.87	+08 49 55.6	18.00o		T05
10P	2021 08 29.568706	04 37 29.29	+08 49 55.2	17.86o		T05
10P	2021 09 01.07934	04 39 58.23	+08 45 42.7	17.4 T	K	I81
10P	2021 09 01.08113	04 39 58.34	+08 45 42.3	17.5 T	K	I81
10P	2021 09 01.08293	04 39 58.45	+08 45 41.9	17.6 T	K	I81
10P	2021 09 03.04490	04 41 47.96	+08 42 04.4	17.8 T	K	A71
10P	2021 09 03.04935	04 41 48.18	+08 42 04.0	17.9 T	K	A71
10P	2021 09 03.05380	04 41 48.44	+08 42 03.2	18.0 T	K	A71
10P	2021 09 03.05825	04 41 48.69	+08 42 02.8	17.6 T	K	A71
10P	2021 09 03.06196	04 41 48.87	+08 42 02.3	17.8 T	K	A71
10P	2021 09 03.43525	04 42 08.69	+08 41 21.7	17 R		C51
Geocentric position (km)		− 1435.0211	+ 6645.6665	+	854.0252	
10P	2021 09 03.56603	04 42 15.68	+08 41 06.5			C51
Geocentric position (km)		− 1445.7756	+ 6648.4395	+	812.4863	
10P	2021 09 03.591046	04 42 17.32	+08 41 02.3	17.82o		T08
10P	2021 09 03.598430	04 42 17.68	+08 41 01.0	17.86o		T08
10P	2021 09 03.602113	04 42 17.89	+08 41 00.7	17.88o		T08
10P	2021 09 03.621139	04 42 18.85	+08 40 58.9	17.72o		T08
10P	2021 09 03.69667	04 42 22.67	+08 40 49.9			C51
Geocentric position (km)		− 1464.3424	+ 6639.6101	+	850.1438	
10P	2021 09 03.82745	04 42 29.56	+08 40 34.9			C51
Geocentric position (km)		− 1474.7921	+ 6642.9652	+	805.0434	
10P	2021 09 04.02342	04 42 38.91	+08 40 19.7			C51
Geocentric position (km)		− 1502.5466	+ 6629.6081	+	861.2724	
10P	2021 09 04.08875	04 42 43.21	+08 40 12.5			C51
Geocentric position (km)		− 1511.7623	+ 6625.0255	+	880.0332	
10P	2021 09 04.08887	04 42 43.36	+08 40 12.7			C51
Geocentric position (km)		− 1503.7693	+ 6637.3907	+	797.4090	
10P	2021 09 04.15420	04 42 45.98	+08 40 02.0			C51
Geocentric position (km)		− 1513.0215	+ 6632.9843	+	816.1184	
10P	2021 09 04.54627	04 43 06.42	+08 39 17.3			C51
Geocentric position (km)		− 1560.3787	+ 6618.2263	+	845.8560	
10P	2021 09 04.67705	04 43 13.23	+08 39 07.5			C51
Geocentric position (km)		− 1570.8579	+ 6621.4207	+	800.6238	
10P	2021 09 05.467905	04 43 54.70	+08 37 08.7	17.59c		T05
10P	2021 09 05.494634	04 43 56.06	+08 37 05.7	18.42c		T05
10P	2021 09 05.511839	04 43 56.89	+08 37 03.3	18.27c		T05

10P	2021 09 05.523375	04 43 57.45	+08 37 01.9	18.20c			T05
10P	2021 09 05.568264	04 43 59.627	+08 36 55.80	18.59w			F52
10P	2021 09 05.582273	04 44 00.309	+08 36 54.04	18.60w			F52
10P	2021 09 05.596313	04 44 00.987	+08 36 52.24	18.59w			F52
10P	2021 09 07.15920	04 45 17.12	+08 33 22.8	17.8	T		A77
10P	2021 09 07.16385	04 45 17.32	+08 33 22.2	17.7	T		A77
10P	2021 09 07.16849	04 45 17.56	+08 33 21.5	17.7	T		A77
10P	2021 09 07.547578	04 45 35.51	+08 32 31.1	17.82o			T08
10P	2021 09 07.561903	04 45 36.16	+08 32 29.4	17.93o			T08
10P	2021 09 07.573009	04 45 36.66	+08 32 28.1	17.57o			T08
10P	2021 09 07.586053	04 45 37.25	+08 32 26.0	18.04o			T08
10P	2021 09 08.11315	04 46 01.61	+08 31 09.9	18.0	T	K	C23
10P	2021 09 08.11747	04 46 01.84	+08 31 09.4	17.9	T	K	C23
10P	2021 09 08.12325	04 46 02.06	+08 31 09.0	17.9	T	K	C23
10P	2021 09 08.482675	04 46 18.38	+08 30 18.9	17.62G			G96
10P	2021 09 08.487855	04 46 18.61	+08 30 18.1	17.65G			G96
10P	2021 09 08.493020	04 46 18.83	+08 30 17.4	17.59G			G96
10P	2021 09 08.498195	04 46 19.06	+08 30 16.6	17.66G			G96
10P	2021 09 09.415577	04 46 59.86	+08 28 04.9	16.96G			703
10P	2021 09 09.421421	04 47 00.18	+08 28 05.7	16.76G			703
10P	2021 09 09.426416	04 47 00.35	+08 28 04.4	16.81G			703
10P	2021 09 09.432262	04 47 00.63	+08 28 03.5	16.89G			703
10P	2021 09 10.09416	04 47 28.97	+08 26 21.9	17.6	T	K	G18
10P	2021 09 10.11042	04 47 29.64	+08 26 19.6	17.5	T	K	G18
10P	2021 09 13.577341	04 49 45.97	+08 17 18.3	18.53c			T05
10P	2021 09 13.580542	04 49 46.08	+08 17 17.7	18.12c			T05
10P	2021 09 13.587414	04 49 46.26	+08 17 16.5	18.63c			T05
10P	2021 09 13.598907	04 49 46.67	+08 17 14.7	18.79c			T05
10P	2021 09 15.23793	04 50 43.50	+08 12 40.5	17.9	N		J22
10P	2021 09 15.24174	04 50 43.67	+08 12 39.7	17.9	N		J22
10P	2021 09 15.24554	04 50 43.77	+08 12 38.8	17.9	N		J22
10P	2021 09 17.12018	04 51 43.04	+08 07 13.7	18.2	T	K	Z10
10P	2021 09 17.12643	04 51 43.23	+08 07 12.5	18.3	T	K	Z10
10P	2021 09 17.13348	04 51 43.41	+08 07 11.3	18.4	T	K	Z10
10P	2021 09 17.588794	04 51 56.77	+08 05 52.4	17.77o			T05
10P	2021 09 17.592000	04 51 56.81	+08 05 52.3	17.94o			T05
10P	2021 09 17.602216	04 51 57.11	+08 05 50.1	17.73o			T05
10P	2021 09 17.607730	04 51 57.27	+08 05 49.2	17.78o			T05
10P	2021 09 18.606513	04 52 25.23	+08 02 50.2	18.24o			T05
10P	2021 09 18.608343	04 52 25.25	+08 02 49.7	17.93o			T05
10P	2021 09 18.633930	04 52 25.90	+08 02 45.7	18.29o			T05
10P	2021 09 18.636673	04 52 25.98	+08 02 44.6	18.55o			T05

15P/Finlay

15P	2021 07 31.001219	04 56 30.73	+23 37 20.6				C53
Geocentric position (km)	+ 4465.3323	+ 5582.3553	− 495.1021				
15P	2021 07 31.006777	04 56 32.00	+23 37 23.8				C53
Geocentric position (km)	+ 4459.5851	+ 4758.4845	+ 2952.3630				
15P	2021 07 31.011409	04 56 33.19	+23 37 25.8				C53
Geocentric position (km)	+ 3610.4257	+ 3162.1408	+ 5302.2915				
15P	2021 07 31.058103	04 56 44.65	+23 38 10.6				C53
Geocentric position (km)	+ 760.1173	+ 2515.9635	− 6669.3666				
15P	2021 07 31.062734	04 56 45.88	+23 38 15.7				C53
Geocentric position (km)	+ 2529.1456	+ 4320.7950	− 5132.0393				
15P	2021 07 31.067366	04 56 47.12	+23 38 17.6				C53
Geocentric position (km)	+ 3867.0970	+ 5389.2190	− 2718.1061				
15P	2021 08 01.263104	05 01 39.82	+23 53 26.8				C53
Geocentric position (km)	+ 4257.3417	+ 4604.5659	+ 3448.7893				
15P	2021 08 01.267736	05 01 40.97	+23 53 29.3				C53
Geocentric position (km)	+ 3313.4030	+ 2860.1397	+ 5653.4820				
15P	2021 08 01.273294	05 01 42.28	+23 53 32.6				C53
Geocentric position (km)	+ 1451.4657	+ 151.7448	+ 6992.5978				
15P	2021 08 01.276074	05 01 42.87	+23 53 34.4				C53
Geocentric position (km)	+ 353.1928	− 1260.4016	+ 7020.4279				
15P	2021 08 05.76120	05 19 41.72	+24 44 27.1	11.3	T		349
15P	2021 08 05.76543	05 19 42.73	+24 44 30.0				349
15P	2021 08 05.79991	05 19 50.87	+24 44 51.2			K	P87
15P	2021 08 05.80485	05 19 52.01	+24 44 54.7	13.1	T	K	P87
15P	2021 08 06.15181	05 21 14.10	+24 48 23.1	15.5	T		Z10
15P	2021 08 06.15910	05 21 15.79	+24 48 28.3	15.7	T		Z10
15P	2021 08 06.16715	05 21 17.58	+24 48 34.6	15.7	T		Z10
15P	2021 08 09.81900	05 35 27.41	+25 22 06.6	11.9	T		Q38
15P	2021 08 09.82299	05 35 28.37	+25 22 08.7	12.0	T		Q38
15P	2021 08 10.05696	05 36 22.08	+25 23 59.2	16.7	T	K	215
15P	2021 08 10.05825	05 36 22.39	+25 23 59.9	16.6	T	K	215
15P	2021 08 10.05955	05 36 22.62	+25 24 00.4	16.9	T	K	215
15P	2021 08 10.13577	05 36 40.19	+25 24 39.4	16.4	T		A77
15P	2021 08 10.13982	05 36 41.16	+25 24 41.5	16.2	T		A77
15P	2021 08 10.14468	05 36 42.22	+25 24 43.9	16.7	T		A77
15P	2021 08 10.77689	05 39 06.47	+25 29 50.3	13.7	T	K	Q21
15P	2021 08 10.78161	05 39 07.55	+25 29 52.4	14.4	T	K	Q21
15P	2021 08 11.09729	05 40 19.25	+25 32 18.9	15.7	T		970
15P	2021 08 11.09899	05 40 19.66	+25 32 19.4	15.5	T		970
15P	2021 08 12.08514	05 44 02.57	+25 39 46.7	14.9	T	K	I81
15P	2021 08 12.08727	05 44 03.15	+25 39 47.0	14.9	T	K	I81
15P	2021 08 12.08940	05 44 03.55	+25 39 48.5	15.3	T	K	I81
15P	2021 08 13.484560	05 49 15.64	+25 49 41.9	16.71r			I41
15P	2021 08 13.487030	05 49 16.19	+25 49 43.3	16.67r			I41
15P	2021 08 13.489500	05 49 16.74	+25 49 44.4	16.63r			I41
15P	2021 08 13.494459	05 49 17.83	+25 49 46.4	16.66r			I41
15P	2021 08 14.09226	05 51 30.61	+25 53 43.1	16.0	T		C23
15P	2021 08 14.09370	05 51 30.97	+25 53 43.5	16.7	T		C23
15P	2021 08 14.13520	05 51 40.27	+25 54 01.6	16.1	T		A77
15P	2021 08 14.13937	05 51 41.24	+25 54 02.0	16.1	T		A77
15P	2021 08 14.14435	05 51 42.29	+25 54 04.7	16.0	T		A77
15P	2021 08 14.498630	05 53 00.11	+25 56 22.2	16.73r			I41
15P	2021 08 14.501150	05 53 00.67	+25 56 23.2	16.60r			I41
15P	2021 08 14.506170	05 53 01.78	+25 56 24.9	16.69r			I41
15P	2021 08 15.16564	05 55 27.10	+26 00 30.8	15.3	N		J01
15P	2021 08 15.17044	05 55 28.19	+26 00 31.9	15.2	N		J01
15P	2021 08 15.17522	05 55 29.32	+26 00 34.0	15.3	N		J01
15P	2021 08 16.14868	05 59 01.76	+26 06 20.0	15.5	N		J01
15P	2021 08 16.15096	05 59 02.13	+26 06 21.5	15.5	N		J01
15P	2021 08 16.16009	05 59 04.00	+26 06 23.1	15.5	N		J01
15P	2021 08 17.12384	06 02 32.49	+26 11 42.8	15.3	T	K	970

15P	2021 08 17.12785	06 02 33.39	+26 11 44.7	16.0 T	K	970
15P	2021 08 18.75868	06 08 21.89	+26 20 01.0	13.2 T		D95
15P	2021 08 18.76088	06 08 22.34	+26 20 01.1			D95
15P	2021 08 18.76288	06 08 22.75	+26 20 01.8	16.8 T	K	Q21
15P	2021 08 18.76306	06 08 22.83	+26 20 02.5			D95
15P	2021 08 18.76813	06 08 23.89	+26 20 04.5	16.6 T	K	Q21
15P	2021 08 19.15451	06 09 45.65	+26 21 52.3	15.7 N		J01
15P	2021 08 19.16367	06 09 47.59	+26 21 54.4	15.8 N		J01
15P	2021 08 19.16825	06 09 48.54	+26 21 56.0	15.7 N		J01
15P	2021 08 19.606104	06 11 20.82	+26 23 58.0	15.28o		T08
15P	2021 08 19.611726	06 11 21.98	+26 23 59.4	15.36o		T08
15P	2021 08 19.624516	06 11 24.67	+26 24 03.0	15.30o		T08
15P	2021 08 19.627304	06 11 25.26	+26 24 03.9	15.45o		T08
15P	2021 08 25.78897	06 32 22.12	+26 45 24.8	12.7 T		349
15P	2021 08 25.79248	06 32 22.84	+26 45 25.1			349
15P	2021 08 27.467675	06 37 50.96	+26 49 17.8	15.67G		703
15P	2021 08 27.473367	06 37 52.06	+26 49 19.5	15.45G		703
15P	2021 08 27.479063	06 37 53.04	+26 49 20.0	15.29G		703
15P	2021 08 27.484752	06 37 54.17	+26 49 19.8	15.67G		703
15P	2021 08 28.12427	06 39 57.93	+26 50 34.3	16.2 T	K	C10
15P	2021 08 28.14063	06 40 01.09	+26 50 35.9	16.2 T	K	C10
15P	2021 08 28.17390	06 40 07.54	+26 50 40.7	16.8 T	K	Z10
15P	2021 08 28.18015	06 40 08.73	+26 50 41.5	16.7 T	K	Z10
15P	2021 08 28.18716	06 40 10.02	+26 50 42.4	16.6 T	K	Z10
15P	2021 08 28.78174	06 42 04.23	+26 51 47.4	13.8 T		D95
15P	2021 08 28.78610	06 42 05.08	+26 51 47.9			D95
15P	2021 08 28.78829	06 42 05.50	+26 51 47.6			D95
15P	2021 09 01.07041	06 52 22.11	+26 56 09.2	16.1 T	K	I81
15P	2021 09 01.07221	06 52 22.47	+26 56 09.4	16.2 T	K	I81
15P	2021 09 01.07402	06 52 22.82	+26 56 09.6	16.3 T	K	I81
15P	2021 09 03.45076	06 59 34.95	+26 57 51.0	17.3 R		U55
15P	2021 09 03.45691	06 59 36.23	+26 57 51.8	16.8 R		U55
15P	2021 09 03.46341	06 59 37.61	+26 57 53.5	16.8 R		U55
15P	2021 09 05.15222	07 04 37.39	+26 58 23.3	16.2 N		J01
15P	2021 09 05.16138	07 04 39.01	+26 58 23.1	16.2 N		J01
15P	2021 09 05.18199	07 04 42.56	+26 58 23.4	16.2 N		J01
15P	2021 09 07.09667	07 10 15.01	+26 58 17.5	16.2 T	K	I81
15P	2021 09 07.09845	07 10 15.30	+26 58 17.4	16.4 T	K	I81
15P	2021 09 07.10024	07 10 15.60	+26 58 17.3	16.2 T	K	I81
15P	2021 09 08.12580	07 13 10.52	+26 58 00.2	16.5 T		I81
15P	2021 09 08.12675	07 13 10.69	+26 58 00.3	16.8 T		C23
15P	2021 09 08.12793	07 13 10.81	+26 57 59.6	16.3 T		I81
15P	2021 09 08.13006	07 13 11.23	+26 57 58.8	16.4 T		I81
15P	2021 09 08.13108	07 13 11.46	+26 58 00.3	17.1 T		C23
15P	2021 09 08.13220	07 13 11.56	+26 57 59.3	16.3 T		I81
15P	2021 09 08.13685	07 13 12.38	+26 57 59.9	16.9 T		C23
15P	2021 09 08.16365	07 13 16.93	+26 57 59.6	16.5 T	K	970
15P	2021 09 08.16779	07 13 17.63	+26 57 59.8	16.6 T	K	970
15P	2021 09 08.32542	07 13 44.28	+26 57 55.9	17.8 T	02	I22
15P	2021 09 08.32703	07 13 44.49	+26 57 56.2	17.6 T	02	I22
15P	2021 09 08.458851	07 14 06.75	+26 57 55.3	15.82G		703
15P	2021 09 08.463787	07 14 07.60	+26 57 54.9	15.79G		703
15P	2021 09 08.468734	07 14 08.49	+26 57 54.5	15.97G		703
15P	2021 09 08.473672	07 14 09.30	+26 57 54.4	15.95G		703
15P	2021 09 09.71911	07 17 37.78	+26 57 13.5	13.3 T		Q11
15P	2021 09 09.72759	07 17 39.18	+26 57 13.2			Q11
15P	2021 09 09.73609	07 17 40.59	+26 57 13.0			Q11
15P	2021 09 10.593576	07 20 02.04	+26 56 42.0	16.12c		T05
15P	2021 09 10.599088	07 20 02.98	+26 56 41.6	16.12c		T05
15P	2021 09 10.602763	07 20 03.56	+26 56 41.2	16.14c		T05
15P	2021 09 10.620920	07 20 06.52	+26 56 40.7	16.15c		T05
15P	2021 09 10.83533	07 20 41.64	+26 56 29.2	16.4 R		D29
15P	2021 09 10.84055	07 20 42.42	+26 56 28.8	15.9 R		D29
15P	2021 09 10.84577	07 20 43.29	+26 56 28.7	17.2 R		D29
15P	2021 09 12.16157	07 24 16.77	+26 55 20.3	17.5 T	K	Z10
15P	2021 09 12.16777	07 24 17.83	+26 55 21.0	17.2 T	K	Z10
15P	2021 09 12.17477	07 24 18.85	+26 55 20.7	17.3 T	K	Z10
15P	2021 09 13.13904	07 26 52.87	+26 54 22.5	16.9 T	K	G18
15P	2021 09 13.15968	07 26 56.17	+26 54 21.5	16.7 T	K	G18
15P	2021 09 13.493502	07 27 49.03	+26 54 00.8	16.72G		G96
15P	2021 09 13.496313	07 27 49.46	+26 54 00.5	16.78G		G96
15P	2021 09 13.499121	07 27 49.94	+26 54 00.2	16.71G		G96
15P	2021 09 13.501941	07 27 50.41	+26 54 00.3			G96
15P	2021 09 16.463660	07 35 28.76	+26 50 18.4	15.88G		703
15P	2021 09 16.469103	07 35 29.61	+26 50 17.0	16.02G		703
15P	2021 09 16.473951	07 35 30.34	+26 50 17.4	16.18G		703
15P	2021 09 16.478807	07 35 31.03	+26 50 17.3	16.05G		703
15P	2021 09 17.610556	07 38 21.444	+26 48 39.46	18.86w		F52
15P	2021 09 17.614332	07 38 22.006	+26 48 39.15	18.77w		F52
15P	2021 09 17.618111	07 38 22.559	+26 48 38.85	18.74w		F52
15P	2021 09 17.621932	07 38 23.139	+26 48 38.58	18.64w		F52

16P/Brooks

16P	2021 09 13.13735	07 17 05.31	+20 04 22.1	19.2 T	K	A77
16P	2021 09 13.14962	07 17 06.53	+20 04 20.1	19.2 T	K	A77
16P	2021 09 13.16498	07 17 08.03	+20 04 16.9	19.5 T	K	A77
16P	2021 09 13.479316	07 17 39.79	+20 03 17.6	19.20G		G96
16P	2021 09 13.483089	07 17 40.17	+20 03 16.8	19.45G		G96
16P	2021 09 13.486853	07 17 40.53	+20 03 16.3	19.64G		G96
16P	2021 09 13.490666	07 17 40.87	+20 03 15.7	19.44G		G96

17P/Holmes

17P	2021 07 31.72322	04 21 59.81	+38 09 08.7			349
17P	2021 07 31.73453	04 22 01.07	+38 09 14.8	15.5 T		349
17P	2021 08 08.00760	04 35 38.47	+39 08 59.2	14.5 T		A98
17P	2021 08 08.00907	04 35 38.62	+39 08 58.7	14.5 T		A98
17P	2021 08 08.01054	04 35 38.83	+39 08 59.0	14.7 T		A98
17P	2021 08 08.01349	04 35 39.22	+39 08 59.6	14.4 T		A98
17P	2021 08 08.01496	04 35 39.42	+39 09 00.0	14.1 T		A98
17P	2021 08 08.01790	04 35 39.65	+39 09 01.4	14.6 T		A98
17P	2021 08 08.01937	04 35 39.87	+39 09 02.1	14.1 T		A98
17P	2021 08 08.02084	04 35 40.02	+39 09 02.6	14.5 T		A98
17P	2021 08 10.03069	04 39 20.66	+39 24 52.8	16.3 T		L27
17P	2021 08 10.04161	04 39 21.78	+39 24 56.9	16.2 T		L27
17P	2021 08 10.05290	04 39 22.97	+39 25 02.4	16.2 T		L27
17P	2021 08 10.06126	04 39 23.85	+39 25 05.9	16.1 T	K	970
17P	2021 08 10.06331	04 39 24.12	+39 25 06.8	16.1 T	K	970

17P	2021 08 10.11220	04 39 29.49	+39 25 30.9	16.5	T		A77
17P	2021 08 10.12282	04 39 30.67	+39 25 36.1	17.1	T		A77
17P	2021 08 10.13097	04 39 31.48	+39 25 39.1	16.3	T	K	Z10
17P	2021 08 10.13374	04 39 31.87	+39 25 41.1	16.9	T		A77
17P	2021 08 10.13718	04 39 32.22	+39 25 42.3	16.4	T	K	Z10
17P	2021 08 10.14416	04 39 32.98	+39 25 45.5	16.4	T	K	Z10
17P	2021 08 10.14594	04 39 33.20	+39 25 46.4	16.7	T		09G40
17P	2021 08 10.17372	04 39 36.13	+39 26 00.2	16.5	T		09G40
17P	2021 08 10.19815	04 39 38.79	+39 26 11.6	16.6	T		09G40
17P	2021 08 10.22462	04 39 41.67	+39 26 23.9	15.8	N		J22
17P	2021 08 10.22815	04 39 42.07	+39 26 25.2	15.8	N		J22
17P	2021 08 10.23147	04 39 42.40	+39 26 27.4	15.8	N		J22
17P	2021 08 10.72418	04 40 36.03	+39 30 16.7	15.9	T	K	Q21
17P	2021 08 10.72942	04 40 36.62	+39 30 19.0	17.7	T	K	Q21
17P	2021 08 10.74823	04 40 38.56	+39 30 27.5	16.3	T	K	Q21
17P	2021 08 10.98981	04 41 04.73	+39 32 18.2	15.7	T		I81
17P	2021 08 10.99054	04 41 04.81	+39 32 18.6	15.8	T		I81
17P	2021 08 10.99090	04 41 04.87	+39 32 18.7	15.7	T	K	I81
17P	2021 08 10.99126	04 41 04.89	+39 32 18.8	15.8	T		I81
17P	2021 08 11.02995	04 41 09.14	+39 32 37.9	16.4	T	K	L27
17P	2021 08 11.03936	04 41 10.19	+39 32 42.1	16.3	T	K	L27
17P	2021 08 11.04875	04 41 11.17	+39 32 46.6	16.3	T	K	L27
17P	2021 08 11.08019	04 41 14.53	+39 33 01.4	16.0	T	K	970
17P	2021 08 11.08434	04 41 14.97	+39 33 03.0	16.0	T	K	970
17P	2021 08 11.16558	04 41 23.79	+39 33 41.8	16.1	T		02G40
17P	2021 08 11.18605	04 41 26.00	+39 33 51.2	16.2	T		02G40
17P	2021 08 11.22097	04 41 29.74	+39 34 08.0	16.3	T		02G40
17P	2021 08 12.01096	04 42 55.08	+39 40 11.0	16.8	T		C23
17P	2021 08 12.01529	04 42 55.53	+39 40 13.1	16.5	T		C23
17P	2021 08 12.01818	04 42 55.78	+39 40 13.8	16.3	T		C23
17P	2021 08 12.03149	04 42 57.54	+39 40 18.7	15.1	T	K	I81
17P	2021 08 12.03361	04 42 57.74	+39 40 19.6	15.2	T	K	I81
17P	2021 08 12.03573	04 42 57.57	+39 40 19.1	14.8	T	K	I81
17P	2021 08 13.01740	04 44 43.01	+39 47 52.5	16.7	T		A71
17P	2021 08 13.01888	04 44 43.15	+39 47 53.2	16.8	T		A71
17P	2021 08 13.02036	04 44 43.33	+39 47 54.0	16.7	T		A71
17P	2021 08 13.02184	04 44 43.42	+39 47 54.2	16.7	T		A71
17P	2021 08 13.02332	04 44 43.67	+39 47 55.3	16.7	T		A71
17P	2021 08 13.02480	04 44 43.78	+39 47 55.9	16.8	T		A71
17P	2021 08 13.02709	04 44 44.00	+39 47 57.1	16.7	T		A71
17P	2021 08 13.02858	04 44 44.20	+39 47 57.8	16.6	T		A71
17P	2021 08 13.03006	04 44 44.34	+39 47 58.5	16.6	T		A71
17P	2021 08 13.03155	04 44 44.49	+39 47 59.5	16.7	T		A71
17P	2021 08 14.00315	04 46 28.07	+39 55 19.1	16.1	T	K	C10
17P	2021 08 14.01456	04 46 29.10	+39 55 24.7	16.3	T	K	C10
17P	2021 08 14.05489	04 46 33.58	+39 55 44.6	16.8	T		C23
17P	2021 08 14.06066	04 46 34.02	+39 55 47.4	16.9	T		C23
17P	2021 08 14.06499	04 46 34.62	+39 55 48.9	17.2	T		C23
17P	2021 08 16.03788	04 50 02.63	+40 10 34.1	16.6	T	K	I81
17P	2021 08 16.04013	04 50 02.85	+40 10 35.2	16.4	T	K	I81
17P	2021 08 16.04234	04 50 03.15	+40 10 35.4	16.1	T	K	I81
17P	2021 08 16.13111	04 50 12.44	+40 11 16.6	16.8	N		J01
17P	2021 08 16.13340	04 50 12.62	+40 11 17.7	16.7	N		J01
17P	2021 08 17.04382	04 51 47.53	+40 18 00.6	17.0	T	K	970
17P	2021 08 17.04796	04 51 48.00	+40 18 02.6	17.1	T	K	970
17P	2021 08 17.054005	04 51 48.60	+40 18 05.9	16.6	T	K	L54
17P	2021 08 17.059787	04 51 49.27	+40 18 08.4	16.5	T	K	L54
17P	2021 08 17.065974	04 51 49.94	+40 18 11.2	16.8	T	K	L54
17P	2021 08 17.11769	04 51 55.29	+40 18 33.9	17.3	T	K	Z10
17P	2021 08 17.12318	04 51 55.81	+40 18 36.5	17.4	T	K	Z10
17P	2021 08 17.13025	04 51 56.57	+40 18 39.5	17.2	T	K	Z10
17P	2021 08 18.73188	04 54 41.94	+40 30 22.8	18.2	T	K	Q21
17P	2021 08 18.73713	04 54 42.56	+40 30 25.1	17.6	T	K	Q21
17P	2021 08 18.75906	04 54 44.64	+40 30 34.9	14.6	T		349
17P	2021 08 18.77678	04 54 46.41	+40 30 43.1				349
17P	2021 08 19.14075	04 55 23.81	+40 33 20.7	17.1	T		29G40
17P	2021 08 19.15530	04 55 25.27	+40 33 27.4	16.9	T		29G40
17P	2021 08 19.16878	04 55 26.66	+40 33 33.0	16.8	T		29G40
17P	2021 08 20.610091	04 57 53.12	+40 43 57.5	17.60o			T08
17P	2021 08 20.623499	04 57 54.37	+40 44 03.0	16.44o			T08
17P	2021 08 20.630872	04 57 55.14	+40 44 06.6	16.80o			T08
17P	2021 08 21.12402	04 58 45.08	+40 47 36.0	17.5	T	K	Z10
17P	2021 08 21.12637	04 58 45.20	+40 47 37.2	17.7	T	K	Z10
17P	2021 08 21.12870	04 58 45.44	+40 47 37.6	17.5	T	K	Z10
17P	2021 08 23.07009	05 01 59.19	+41 01 23.7	17.6	T	K	213
17P	2021 08 23.12045	05 02 04.10	+41 01 45.3			K	213
17P	2021 08 23.17020	05 02 08.97	+41 02 06.8	17.0	T	K	213
17P	2021 08 28.00922	05 09 56.53	+41 35 35.3	17.1	T	K	C23
17P	2021 08 28.01644	05 09 57.23	+41 35 38.0	17.8	T	K	C23
17P	2021 08 28.02077	05 09 57.65	+41 35 40.0	17.9	T	K	C23
17P	2021 08 28.608189	05 10 52.74	+41 39 43.1	17.00o			T08
17P	2021 08 28.618328	05 10 53.77	+41 39 47.4	17.85o			T08
17P	2021 08 28.627729	05 10 54.61	+41 39 51.0	17.79o			T08
17P	2021 09 01.11690	05 16 15.31	+42 03 16.6	17.8	T	K	I81
17P	2021 09 01.11904	05 16 15.49	+42 03 17.4	17.6	T	K	I81
17P	2021 09 01.12118	05 16 15.68	+42 03 18.2	17.5	T	K	I81
17P	2021 09 02.03954	05 17 37.92	+42 09 25.0	17.3	T	K	215
17P	2021 09 02.04083	05 17 38.03	+42 09 25.4	17.5	T	K	215
17P	2021 09 02.04212	05 17 38.14	+42 09 25.7	17.6	T	K	215
17P	2021 09 05.04795	05 22 00.70	+42 29 12.3	17.9	T	K	970
17P	2021 09 05.05613	05 22 01.42	+42 29 16.0	18.1	T	K	970
17P	2021 09 05.11703	05 22 06.50	+42 29 39.7	17.7	N		J01
17P	2021 09 05.12071	05 22 06.71	+42 29 40.7	17.5	N		J01
17P	2021 09 05.13172	05 22 07.71	+42 29 44.9	17.7	N		J01
17P	2021 09 05.595327	05 22 47.39	+42 32 49.3	18.26o			T08
17P	2021 09 05.598553	05 22 47.64	+42 32 50.6	18.19o			T08
17P	2021 09 05.616175	05 22 49.10	+42 32 58.1	18.20o			T08
17P	2021 09 07.02126	05 24 47.40	+42 42 03.2	17.8	T	K	970
17P	2021 09 07.03622	05 24 48.59	+42 42 08.4	17.5	T	K	970
17P	2021 09 07.06848	05 24 51.24	+42 42 20.7	18.8	T	K	I81
17P	2021 09 07.07061	05 24 51.40	+42 42 22.1	18.4	T	K	I81
17P	2021 09 07.07274	05 24 51.57	+42 42 23.1	18.9	T	K	I81
17P	2021 09 07.603985	05 25 35.43	+42 45 51.9	17.47c			T05
17P	2021 09 07.622584	05 25 37.02	+42 45 59.5	18.45c			T05
17P	2021 09 07.628089	05 25 37.43	+42 46 01.8	18.49c			T05
17P	2021 09 08.04233	05 26 11.65	+42 48 39.5	18.2	T	K	970

17P	2021 09 08.04655	05 26 11.92	+42 48 41.6	17.4 T	K	970
17P	2021 09 08.07454	05 26 14.23	+42 48 51.6	17.5 T	K	I81
17P	2021 09 08.07664	05 26 14.40	+42 48 52.3	17.5 T	K	I81
17P	2021 09 08.07875	05 26 14.62	+42 48 53.2	17.6 T	K	I81
17P	2021 09 08.15826	05 26 21.23	+42 49 23.8	18.2 T	02	I22
17P	2021 09 08.16149	05 26 21.46	+42 49 24.7	18.1 T	02	I22
17P	2021 09 10.02757	05 28 51.64	+43 01 25.1	16.8 T		L60
17P	2021 09 10.02913	05 28 51.82	+43 01 26.0			L60
17P	2021 09 10.03069	05 28 51.96	+43 01 26.8			L60
17P	2021 09 10.03381	05 28 52.12	+43 01 27.6			L60
17P	2021 09 10.89615	05 30 00.53	+43 06 55.1	17.1 T		A98
17P	2021 09 10.91739	05 30 01.82	+43 07 05.2	17.5 T		A98
17P	2021 09 10.91952	05 30 01.94	+43 07 07.1	17.7 T		A98
17P	2021 09 11.610043	05 30 55.82	+43 11 33.9	17.97c		T05
17P	2021 09 11.614190	05 30 55.97	+43 11 35.8	17.57c		T05
17P	2021 09 11.621654	05 30 56.67	+43 11 37.9	18.59c		T05
17P	2021 09 11.635165	05 30 57.48	+43 11 44.1	17.34c		T05
17P	2021 09 13.570732	05 33 24.85	+43 24 00.1	18.16o		T08
17P	2021 09 13.576277	05 33 25.19	+43 24 01.8	18.00o		T08
17P	2021 09 13.591051	05 33 26.28	+43 24 08.2	17.24o		T08
17P	2021 09 16.10053	05 36 29.22	+43 39 54.5	17.9 T	K	C23
17P	2021 09 16.10342	05 36 29.73	+43 39 56.3	18.2 T	K	C23
17P	2021 09 16.11266	05 36 30.12	+43 39 59.4	18.3 T	K	970
17P	2021 09 16.11679	05 36 30.42	+43 40 00.6	17.9 T	K	970
17P	2021 09 17.07929	05 37 38.31	+43 46 03.1	18.4 T	K	Z10
17P	2021 09 17.08476	05 37 38.65	+43 46 05.1	18.4 T	K	Z10
17P	2021 09 17.09182	05 37 39.15	+43 46 08.0	18.6 T	K	Z10

19P/Borrelly

19P	2021 08 07.519095	00 17 48.33	−49 10 42.0	16.86o		T05
19P	2021 08 07.520927	00 17 48.34	−49 10 44.0	16.87o		T05
19P	2021 08 07.523670	00 17 48.38	−49 10 46.8	16.44o		T05
19P	2021 08 07.529156	00 17 48.41	−49 10 52.4	16.49o		T05
19P	2021 08 09.64029	00 18 09.91	−49 47 17.5		01	Q62
19P	2021 08 09.64118	00 18 09.90	−49 47 18.8	16.7 T	01	Q62
19P	2021 08 28.51344	00 12 51.63	−54 58 32.1	15.0 T	67	Q62
19P	2021 08 28.51429	00 12 51.58	−54 58 32.9	16.1 N	67	Q62
19P	2021 08 28.51514	00 12 51.54	−54 58 33.7		67	Q62
19P	2021 08 28.51600	00 12 51.50	−54 58 34.5		67	Q62
19P	2021 08 29.38968	00 12 11.52	−55 11 22.1	16.5 T	23	W88
19P	2021 08 29.39618	00 12 11.15	−55 11 27.2	15.7 T	23	W88
19P	2021 09 03.28017	00 07 52.44	−56 18 16.0	15.5 T	14	W88
19P	2021 09 03.28670	00 07 52.01	−56 18 21.1	15.5 T	14	W88
19P	2021 09 05.26754	00 05 47.42	−56 42 51.9	16.3 R		Y00
19P	2021 09 05.27706	00 05 46.62	−56 42 58.2	16.3 R		Y00
19P	2021 09 05.29052	00 05 45.70	−56 43 07.6	16.3 R		Y00
19P	2021 09 10.49403	23 59 31.87	−57 38 52.6	15.1 T		Q38
19P	2021 09 10.49560	23 59 31.70	−57 38 53.9	15.1 T		Q38
19P	2021 09 10.49716	23 59 31.60	−57 38 54.8	15.1 T		Q38
19P	2021 09 10.49913	23 59 31.51	−57 38 56.4	15.1 T		Q38
19P	2021 09 10.50110	23 59 31.20	−57 38 57.4	15.1 T		Q38
19P	2021 09 12.54999	23 56 46.03	−57 57 09.5	15.2 T	K	E94
19P	2021 09 12.55879	23 56 45.27	−57 57 13.8	15.2 T	K	E94
19P	2021 09 12.56760	23 56 44.49	−57 57 18.3	15.1 T	K	E94

22P/Kopff

22P	2020 01 23.278090	08 34 58.60	+19 10 46.6	21.52r	I41
22P	2020 01 23.299069	08 34 57.66	+19 10 50.7	21.36r	I41
22P	2020 01 23.330580	08 34 56.33	+19 10 56.2	21.45r	I41
22P	2020 01 26.269681	08 32 50.44	+19 19 44.5	21.03r	I41
22P	2020 01 26.284880	08 32 49.72	+19 19 47.6	20.82r	I41
22P	2020 01 26.306160	08 32 48.80	+19 19 51.2	21.17r	I41
22P	2020 01 26.333681	08 32 47.59	+19 19 56.0	21.16r	I41
22P	2020 01 27.244200	08 32 08.44	+19 22 38.9	20.90r	I41
22P	2020 01 27.264069	08 32 07.58	+19 22 42.7	20.93r	I41
22P	2020 01 27.279190	08 32 06.91	+19 22 45.3	20.96r	I41
22P	2020 01 27.297480	08 32 06.09	+19 22 48.5	20.96r	I41
22P	2020 10 15.519681	10 32 21.27	+11 02 06.6	19.59r	I41
22P	2020 10 15.524380	10 32 21.51	+11 02 04.9	19.58r	I41
22P	2020 10 15.529090	10 32 21.75	+11 02 03.8	19.62r	I41
22P	2020 10 15.538510	10 32 22.24	+11 02 00.1	19.43r	I41
22P	2020 10 19.521000	10 35 50.98	+10 44 13.1	19.73r	I41
22P	2020 10 19.525720	10 35 51.23	+10 44 11.6	19.91r	I41
22P	2020 10 19.530440	10 35 51.47	+10 44 10.1	19.96r	I41
22P	2020 10 19.535170	10 35 51.75	+10 44 08.7	19.82r	I41

28P/Neujmin

28P	2021 06 30.475380	03 20 02.85	+26 54 13.4	17.18r		I41
28P	2021 06 30.477800	03 20 03.16	+26 54 15.3	17.14r		I41
28P	2021 06 30.480230	03 20 03.46	+26 54 16.9	17.24r		I41
28P	2021 06 30.482650	03 20 03.76	+26 54 18.9	17.14r		I41
28P	2021 08 04.73716	04 26 16.78	+32 56 28.8			349
28P	2021 08 04.75853	04 26 18.86	+32 56 39.6	16.7 T		349
28P	2021 08 15.06102	04 42 22.53	+34 20 09.4	17.4 T		K77
28P	2021 08 15.06744	04 42 23.09	+34 20 12.1	17.7 T		K77
28P	2021 08 18.38924	04 47 09.60	+34 45 37.4	17.2 R		U55
28P	2021 08 18.39951	04 47 10.47	+34 45 43.3	17.7 R		U55
28P	2021 08 18.40926	04 47 11.13	+34 45 47.0	17.2 R		U55
28P	2021 08 18.74089	04 47 39.16	+34 48 17.2	17.1 T		D95
28P	2021 08 18.74736	04 47 39.71	+34 48 20.3			D95
28P	2021 08 18.75166	04 47 40.05	+34 48 22.4			D95
28P	2021 08 20.602722	04 50 13.39	+35 02 15.1	17.23o		T08
28P	2021 08 20.608247	04 50 13.84	+35 02 17.6	17.20o		T08
28P	2021 08 20.621657	04 50 14.90	+35 02 23.6	17.18o		T08
28P	2021 08 20.628566	04 50 15.48	+35 02 26.8	17.19o		T08
28P	2021 08 22.606053	04 52 54.80	+35 17 02.9	17.48o		T05
28P	2021 08 22.618074	04 52 55.70	+35 17 08.4	17.44o		T05
28P	2021 08 22.624096	04 52 56.19	+35 17 10.9	17.49o		T05
28P	2021 08 22.628288	04 52 56.54	+35 17 12.7	17.45o		T05
28P	2021 08 23.409920	04 53 58.24	+35 22 54.3	17.33r		I41
28P	2021 08 23.469480	04 54 02.85	+35 23 21.0	18.32g		I41
28P	2021 08 23.99934	04 54 43.93	+35 27 09.8	17.5 T	K	C23
28P	2021 08 24.00512	04 54 44.57	+35 27 13.7	17.1 T	K	C23
28P	2021 08 25.467300	04 56 36.80	+35 37 50.0	17.14r		I41
28P	2021 08 25.482850	04 56 37.97	+35 37 56.8	17.16r		I41
28P	2021 08 25.98088	04 57 15.33	+35 41 28.9	17.0 T	K	A71

28P	2021 08 25.98571	04 57 15.85	+35 41 31.7	17.0	T	K	A71
28P	2021 08 25.99053	04 57 16.40	+35 41 34.7	17.1	T	K	A71
28P	2021 08 25.99535	04 57 16.66	+35 41 37.9	16.9	T	K	A71
28P	2021 08 27.477831	04 59 06.59	+35 52 14.2	17.58G			G96
28P	2021 08 27.483110	04 59 06.97	+35 52 16.5	17.51G			G96
28P	2021 08 27.488404	04 59 07.34	+35 52 18.8	17.45G			G96
28P	2021 08 27.493678	04 59 07.73	+35 52 21.1	17.47G			G96
28P	2021 08 28.605423	05 00 28.32	+36 00 15.4	17.21o			T08
28P	2021 08 28.616943	05 00 29.12	+36 00 20.1	17.10o			T08
28P	2021 08 28.627267	05 00 29.85	+36 00 24.8	17.09o			T08
28P	2021 08 28.633811	05 00 30.32	+36 00 27.7	17.09o			T08
28P	2021 09 05.597633	05 09 17.42	+36 55 41.2	17.02o			T08
28P	2021 09 05.601317	05 09 17.64	+36 55 42.7	17.11o			T08
28P	2021 09 05.631841	05 09 19.44	+36 55 55.5	17.23o			T08
28P	2021 09 07.606751	05 11 15.83	+37 09 18.5	17.86c			T05
28P	2021 09 07.611988	05 11 16.12	+37 09 20.6	17.66c			T05
28P	2021 09 07.624871	05 11 16.83	+37 09 25.8	17.60c			T05
28P	2021 09 07.634990	05 11 17.39	+37 09 30.1	17.64c			T05
28P	2021 09 08.05127	05 11 41.24	+37 12 16.2	17.5	T	K	970
28P	2021 09 08.05542	05 11 41.46	+37 12 17.4	17.0	T	K	970
28P	2021 09 08.06517	05 11 42.01	+37 12 21.5	17.4	T		C23
28P	2021 09 08.06806	05 11 42.24	+37 12 22.9	17.3	T		C23
28P	2021 09 08.07239	05 11 42.42	+37 12 25.0	17.5	T		C23
28P	2021 09 08.08781	05 11 43.27	+37 12 30.5	17.5	T	K	I81
28P	2021 09 08.08992	05 11 43.39	+37 12 31.4	17.5	T	K	I81
28P	2021 09 08.09203	05 11 43.51	+37 12 32.2	17.6	T	K	I81
28P	2021 09 09.14773	05 12 42.45	+37 19 39.6	17.4	N		J22
28P	2021 09 09.15153	05 12 42.69	+37 19 41.0	17.4	N		J22
28P	2021 09 09.15534	05 12 42.90	+37 19 42.5	17.4	N		J22
28P	2021 09 10.08038	05 13 33.13	+37 25 54.4	17.5	T		A98
28P	2021 09 10.08251	05 13 33.19	+37 25 55.1	17.0	T		A98
28P	2021 09 10.08464	05 13 33.32	+37 25 55.4	16.9	T		A98
28P	2021 09 10.08676	05 13 33.40	+37 25 56.4	16.7	T		A98
28P	2021 09 10.08888	05 13 33.52	+37 25 57.4	16.9	T		A98
28P	2021 09 10.09101	05 13 33.69	+37 25 58.3	16.7	T		A98
28P	2021 09 11.472920	05 14 46.15	+37 35 12.1	18.08g			I41
28P	2021 09 11.493670	05 14 47.18	+37 35 20.4	17.65r			I41
28P	2021 09 11.555655	05 14 50.44	+37 35 45.7	18.01c			T05
28P	2021 09 11.578714	05 14 51.58	+37 35 54.9	17.65c			T05
28P	2021 09 11.583945	05 14 51.83	+37 35 56.9	17.68c			T05
28P	2021 09 11.588986	05 14 52.11	+37 35 58.9	17.52c			T05
28P	2021 09 12.470350	05 15 36.54	+37 41 49.3	17.21r			I41
28P	2021 09 12.489110	05 15 37.45	+37 41 56.8	17.87g			I41
28P	2021 09 13.49468	05 16 26.31	+37 48 35.8	18	R		C51
Geocentric position (km)		− 2492.8440	+ 5116.2931	+ 3806.8065			
28P	2021 09 13.88675	05 16 45.01	+37 51 11.5				C51
Geocentric position (km)		− 2524.3879	+ 5085.4178	+ 3827.2455			
28P	2021 09 13.95220	05 16 48.09	+37 51 37.2				C51
Geocentric position (km)		− 2537.3461	+ 5119.4170	+ 3773.1160			
28P	2021 09 14.01753	05 16 51.19	+37 52 02.7				C51
Geocentric position (km)		− 2541.0927	+ 5106.5130	+ 3787.9987			
28P	2021 09 14.08285	05 16 54.30	+37 52 28.6				C51
Geocentric position (km)		− 2544.7916	+ 5093.5442	+ 3802.9065			
28P	2021 09 14.14817	05 16 57.38	+37 52 54.9				C51
Geocentric position (km)		− 2548.4505	+ 5080.5560	+ 3817.7533			
28P	2021 09 14.21350	05 17 00.43	+37 53 20.1				C51
Geocentric position (km)		− 2552.1094	+ 5067.7492	+ 3832.2573			
28P	2021 09 14.21363	05 17 00.44	+37 53 20.3				C51
Geocentric position (km)		− 2561.5656	+ 5114.6180	+ 3763.2504			
28P	2021 09 14.34427	05 17 06.53	+37 54 11.8				C51
Geocentric position (km)		− 2568.9367	+ 5088.7675	+ 3793.0583			
28P	2021 09 14.47492	05 17 12.62	+37 55 03.6				C51
Geocentric position (km)		− 2576.1442	+ 5062.8182	+ 3822.6898			
28P	2021 09 14.60570	05 17 18.68	+37 55 55.3				C51
Geocentric position (km)		− 2593.0567	+ 5083.7307	+ 3783.4025			
28P	2021 09 15.450640	05 17 57.47	+38 01 27.9	18.19g			I41
28P	2021 09 15.486470	05 17 59.03	+38 01 42.3	17.55r			I41
28P	2021 09 15.598407	05 18 04.02	+38 02 27.2	17.55c			T05
28P	2021 09 15.603952	05 18 04.28	+38 02 29.3	17.45c			T05
28P	2021 09 15.620732	05 18 05.01	+38 02 36.0	17.52c			T05
28P	2021 09 15.624863	05 18 05.20	+38 02 37.6	17.39c			T05
28P	2021 09 15.95009	05 18 19.78	+38 04 41.9	17.0	T		B96
28P	2021 09 15.95502	05 18 19.85	+38 04 43.0	19.0	T		B96
28P	2021 09 15.95995	05 18 20.14	+38 04 45.3	16.6	T		B96
28P	2021 09 16.09071	05 18 25.81	+38 05 38.5	17.1	T	K	970
28P	2021 09 16.09484	05 18 25.98	+38 05 40.1	16.8	T	K	970
28P	2021 09 16.466120	05 18 42.09	+38 08 06.9	17.39r			I41
28P	2021 09 16.487500	05 18 42.98	+38 08 15.4	18.20g			I41
28P	2021 09 17.03841	05 19 06.55	+38 11 49.8	17.7	T	K	Z10
28P	2021 09 17.04390	05 19 06.80	+38 11 51.6	17.7	T	K	Z10
28P	2021 09 17.05013	05 19 07.05	+38 11 54.4	17.6	T	K	Z10

29P/Schwassmann-Wachmann

29P	2021 03 29.126100	02 52 25.12	+25 01 22.3	17.44r			I41
29P	2021 03 29.128459	02 52 25.19	+25 01 22.6	17.54r			I41
29P	2021 03 29.130819	02 52 25.29	+25 01 23.5	17.52r			I41
29P	2021 03 29.133190	02 52 25.39	+25 01 23.0	17.48r			I41
29P	2021 03 29.135560	02 52 25.50	+25 01 23.6	17.41r			I41
29P	2021 04 04.129020	02 57 04.29	+25 15 13.5	16.43r			I41
29P	2021 04 04.131390	02 57 04.41	+25 15 13.8	16.46r			I41
29P	2021 04 04.133750	02 57 04.53	+25 15 14.1	16.48r			I41
29P	2021 04 04.136120	02 57 04.64	+25 15 14.4	16.44r			I41
29P	2021 04 04.138500	02 57 04.74	+25 15 14.7	16.43r			I41
29P	2021 04 05.130970	02 57 51.79	+25 17 36.5	16.55r			I41
29P	2021 04 05.133340	02 57 51.89	+25 17 36.8	16.55r			I41
29P	2021 04 05.135709	02 57 52.01	+25 17 37.3	16.54r			I41
29P	2021 04 05.138080	02 57 52.13	+25 17 37.5	16.69r			I41
29P	2021 04 06.131550	02 58 39.44	+25 20 00.7	16.66r			I41
29P	2021 04 06.133910	02 58 39.55	+25 20 01.0	16.68r			I41
29P	2021 04 06.138630	02 58 39.77	+25 20 01.6	16.69r			I41
29P	2021 04 06.141000	02 58 39.90	+25 20 01.8	16.56r			I41
29P	2021 08 07.05063	04 39 05.27	+30 23 37.7	15.7	T		L27
29P	2021 08 07.06159	04 39 05.68	+30 23 38.6	15.8	T		L27
29P	2021 08 07.07290	04 39 06.09	+30 23 40.4	15.8	T		L27
29P	2021 08 07.08713	04 39 06.63	+30 23 42.2	15.7	T		L27
29P	2021 08 07.09846	04 39 07.03	+30 23 43.8	15.7	T		L27

29P	2021 08 07.11274	04 39 07.56	+30 23 45.3	15.7	T		L27
29P	2021 08 07.12406	04 39 07.96	+30 23 46.7	15.7	T		L27
29P	2021 08 08.03984	04 39 41.32	+30 25 34.7	15.7	T	K	L27
29P	2021 08 08.06422	04 39 42.16	+30 25 37.0	15.9	T	K	L27
29P	2021 08 08.09472	04 39 43.25	+30 25 41.5	15.8	T	K	L27
29P	2021 08 08.16023	04 39 45.65	+30 25 49.0	16.0	T		29G40
29P	2021 08 08.16413	04 39 45.79	+30 25 49.3	16.0	T		29G40
29P	2021 08 08.19477	04 39 46.91	+30 25 53.0	16.0	T		29G40
29P	2021 08 08.19964	04 39 47.09	+30 25 53.6	15.7	T		29G40
29P	2021 08 09.09032	04 40 18.97	+30 27 37.9	15.9	T		L27
29P	2021 08 09.10174	04 40 19.34	+30 27 39.1	15.9	T		L27
29P	2021 08 09.11355	04 40 19.82	+30 27 40.9	15.9	T		L27
29P	2021 08 10.05852	04 40 53.26	+30 29 30.8	16.1	T	K	L27
29P	2021 08 10.06353	04 40 53.43	+30 29 31.5	17.1	T	K	215
29P	2021 08 10.06482	04 40 53.48	+30 29 31.6	17.1	T	K	215
29P	2021 08 10.06611	04 40 53.57	+30 29 31.8	17.1	T	K	215
29P	2021 08 10.08111	04 40 54.08	+30 29 33.5	16.0	T	K	L27
29P	2021 08 10.10370	04 40 54.84	+30 29 35.9	16.1	T	K	L27
29P	2021 08 10.12083	04 40 55.45	+30 29 37.9	16.0	T		L27
29P	2021 08 10.13400	04 40 55.90	+30 29 39.5	16.1	T		L27
29P	2021 08 10.14304	04 40 56.23	+30 29 41.2	15.9	T		L27
29P	2021 08 10.15079	04 40 56.51	+30 29 41.2	16.2	T		Z10
29P	2021 08 10.15778	04 40 56.74	+30 29 42.0	16.2	T		Z10
29P	2021 08 10.16553	04 40 56.99	+30 29 42.7	16.1	T		Z10
29P	2021 08 11.05850	04 41 28.21	+30 31 26.5	16.2	T	K	L27
29P	2021 08 11.08671	04 41 29.16	+30 31 30.1	16.1	T	K	L27
29P	2021 08 11.11492	04 41 30.14	+30 31 33.0	16.2	T	K	L27
29P	2021 08 11.14209	04 41 31.08	+30 31 36.4	16.2	T	K	L27
29P	2021 08 12.04410	04 42 01.86	+30 33 18.9	15.3	T	K	I81
29P	2021 08 12.04623	04 42 02.18	+30 33 19.7	15.2	T	K	I81
29P	2021 08 12.04837	04 42 02.27	+30 33 19.7	16.3	T	K	I81
29P	2021 08 12.05196	04 42 02.41	+30 33 21.0	16.3	T	K	L27
29P	2021 08 12.08026	04 42 03.43	+30 33 24.7	16.2	T	K	L27
29P	2021 08 12.14298	04 42 05.51	+30 33 31.4	16.3	T	K	L27
29P	2021 08 13.72475	04 42 58.98	+30 36 34.1	15.4	T	K	E94
29P	2021 08 13.73489	04 42 59.23	+30 36 35.2	15.3	T	K	E94
29P	2021 08 13.74502	04 42 59.73	+30 36 38.1	15.4	T	K	E94
29P	2021 08 14.03014	04 43 09.07	+30 37 06.9	16.3	T	K	C10
29P	2021 08 14.05120	04 43 09.88	+30 37 08.7	16.8	T		C23
29P	2021 08 14.05265	04 43 09.85	+30 37 08.8	16.5	T		C23
29P	2021 08 14.07892	04 43 10.74	+30 37 13.4	16.3	T	K	C10
29P	2021 08 14.10294	04 43 11.49	+30 37 14.8	16.7	T	K	213
29P	2021 08 14.12172	04 43 12.17	+30 37 16.2	16.8	N		213
29P	2021 08 14.12641	04 43 12.27	+30 37 17.5	16.4	T	K	213
29P	2021 08 14.13141	04 43 12.43	+30 37 18.6	16.4	T	K	C10
29P	2021 08 14.14050	04 43 12.72	+30 37 18.7	16.7	N		213
29P	2021 08 14.15222	04 43 13.12	+30 37 20.4	16.4	T	K	213
29P	2021 08 14.16397	04 43 13.55	+30 37 21.5	16.7	N		213
29P	2021 08 15.010791	04 43 41.33	+30 38 57.3	16.6	T	K	L54
29P	2021 08 15.023979	04 43 41.83	+30 38 59.2	16.6	T	K	L54
29P	2021 08 15.03478	04 43 42.20	+30 39 01.0	16.6	T	K	L27
29P	2021 08 15.038002	04 43 42.36	+30 39 00.7	16.9	T	K	L54
29P	2021 08 15.07623	04 43 43.53	+30 39 05.2	16.6	T	K	L27
29P	2021 08 15.12534	04 43 45.12	+30 39 10.6	16.6	T	K	L27
29P	2021 08 15.14413	04 43 45.74	+30 39 13.0	16.6	T	K	L27
29P	2021 08 16.03850	04 44 14.72	+30 40 53.3	16.7	T	K	L27
29P	2021 08 16.04801	04 44 15.00	+30 40 54.1	16.6	T	K	I81
29P	2021 08 16.04942	04 44 15.05	+30 40 54.2	17.1	T	K	I81
29P	2021 08 16.05082	04 44 15.10	+30 40 53.9	16.7	T	K	I81
29P	2021 08 16.08001	04 44 16.04	+30 40 57.8	16.7	T	K	L27
29P	2021 08 16.12900	04 44 17.61	+30 41 03.5	16.6	T	K	L27
29P	2021 08 16.14784	04 44 18.20	+30 41 05.5	16.7	T	K	L27
29P	2021 08 17.07058	04 44 47.62	+30 42 48.3	16.6	T	K	970
29P	2021 08 17.07472	04 44 47.75	+30 42 48.7	16.5	T	K	970
29P	2021 08 17.13907	04 44 49.76	+30 42 55.9	17.1	T	K	Z10
29P	2021 08 17.14221	04 44 49.86	+30 42 56.4	17.1	T	K	Z10
29P	2021 08 17.14770	04 44 50.04	+30 42 57.0	17.2	T	K	Z10
29P	2021 08 17.15082	04 44 50.12	+30 42 57.5	17.0	T	K	Z10
29P	2021 08 18.04201	04 45 18.14	+30 44 36.3	16.8	T	K	L27
29P	2021 08 18.09105	04 45 19.59	+30 44 42.1	16.6	T	K	L27
29P	2021 08 18.13260	04 45 20.88	+30 44 46.8	16.7	T	K	L27
29P	2021 08 18.14364	04 45 21.22	+30 44 47.5	17.0	T	K	Z10
29P	2021 08 18.14756	04 45 21.35	+30 44 48.6	16.8	T	K	L27
29P	2021 08 18.14836	04 45 21.35	+30 44 48.4	16.9	T	K	Z10
29P	2021 08 18.15310	04 45 21.51	+30 44 49.0	16.9	T	K	Z10
29P	2021 08 18.75115	04 45 39.93	+30 45 55.2	17.9	T	K	Q21
29P	2021 08 18.75587	04 45 40.13	+30 45 56.2	17.7	T	K	Q21
29P	2021 08 19.01071	04 45 47.95	+30 46 23.9	16.7	T	K	L27
29P	2021 08 19.05964	04 45 49.44	+30 46 28.9	16.6	T	K	L27
29P	2021 08 19.10913	04 45 50.95	+30 46 34.6	16.7	T	K	L27
29P	2021 08 19.15071	04 45 52.20	+30 46 39.5	16.7	T	K	L27
29P	2021 08 19.597150	04 46 05.79	+30 47 29.0	16.46o			T08
29P	2021 08 19.607027	04 46 06.08	+30 47 30.0	16.68o			T08
29P	2021 08 19.613111	04 46 06.26	+30 47 30.4	17.27o			T08
29P	2021 08 19.625000	04 46 06.63	+30 47 32.0	16.50o			T08
29P	2021 08 20.03574	04 46 19.01	+30 48 16.5	16.7	T	K	L27
29P	2021 08 20.08461	04 46 20.46	+30 48 21.8	16.8	T	K	L27
29P	2021 08 20.13338	04 46 21.91	+30 48 27.1	16.7	T	K	L27
29P	2021 08 20.15219	04 46 22.51	+30 48 29.7	16.6	T	K	L27
29P	2021 08 21.02064	04 46 48.26	+30 50 04.3	17.0	T	K	L27
29P	2021 08 21.08380	04 46 50.13	+30 50 10.8	16.9	T	K	L27
29P	2021 08 21.12519	04 46 51.35	+30 50 15.6	16.9	T	K	L27
29P	2021 08 21.14555	04 46 51.92	+30 50 17.2	17.1	T	K	Z10
29P	2021 08 21.15179	04 46 52.09	+30 50 17.9	16.9	T	K	Z10
29P	2021 08 21.15801	04 46 52.28	+30 50 18.6	17.0	T	K	Z10
29P	2021 08 21.617071	04 47 05.75	+30 51 09.4	17.32o			T05
29P	2021 08 21.623378	04 47 05.92	+30 51 09.8	17.46o			T05
29P	2021 08 21.629332	04 47 06.10	+30 51 10.7	16.54o			T05
29P	2021 08 23.02377	04 47 46.04	+30 53 41.8	16.8	T	K	L27
29P	2021 08 23.07260	04 47 47.55	+30 53 45.8	16.9	T	K	L27
29P	2021 08 23.12146	04 47 48.89	+30 53 51.1	16.8	T	K	L27
29P	2021 08 23.15343	04 47 49.82	+30 53 54.8	17.0	T	K	L27
29P	2021 08 23.98096	04 48 13.09	+30 55 22.8	16.6	T	K	C23
29P	2021 08 23.98505	04 48 13.11	+30 55 22.9	16.2	T	K	C23
29P	2021 08 23.98937	04 48 13.29	+30 55 23.1	16.6	T	K	C23
29P	2021 08 25.01815	04 48 41.52	+30 57 13.8	14.6	T	K	L27

29P	2021 08 25.04080	04 48 42.13	+30 57 16.2	14.5	T	K L27	29P	2021 08 30.11195	04 50 52.14	+31 06 06.2	15.3	T	K L27
29P	2021 08 25.06707	04 48 42.86	+30 57 19.0	14.6	T	K L27	29P	2021 08 30.14093	04 50 52.79	+31 06 09.6	15.3	T	K L27
29P	2021 08 25.08973	04 48 43.46	+30 57 21.3	14.5	T	K L27	29P	2021 08 30.16189	04 50 53.34	+31 06 11.5	15.3	T	K L27
29P	2021 08 25.11608	04 48 44.18	+30 57 24.2	14.5	T	K L27	29P	2021 08 31.001410	04 51 13.36	+31 07 37.1	15.4	T	K L54
29P	2021 08 25.13866	04 48 44.77	+30 57 26.7	14.5	T	K L27	29P	2021 08 31.008472	04 51 13.50	+31 07 38.0	15.2	T	K L54
29P	2021 08 25.15557	04 48 45.23	+30 57 28.5	14.5	T	K L27	29P	2021 08 31.015485	04 51 13.68	+31 07 38.6	15.3	T	K L54
29P	2021 08 26.02501	04 49 08.60	+30 59 00.7	14.4	T	C10	29P	2021 08 31.01918	04 51 13.73	+31 07 38.6	15.6	T	K L27
29P	2021 08 26.05015	04 49 09.29	+30 59 03.3	14.6	T	C10	29P	2021 08 31.06599	04 51 14.86	+31 07 44.0	15.6	T	K L27
29P	2021 08 26.07609	04 49 09.98	+30 59 06.2	14.4	T	C10	29P	2021 08 31.11310	04 51 15.95	+31 07 48.6	15.6	T	K L27
29P	2021 08 26.10206	04 49 10.66	+30 59 08.8	14.4	T	C10	29P	2021 08 31.15078	04 51 16.81	+31 07 52.5	15.6	T	K L27
29P	2021 08 26.12777	04 49 11.32	+30 59 11.6	14.4	T	C10	29P	2021 08 31.97589	04 51 35.93	+31 09 15.2	15.0	T	K I81
29P	2021 08 26.13181	04 49 11.38	+30 59 11.6	14.3	T	K Z10	29P	2021 08 31.97874	04 51 36.00	+31 09 16.2	15.3	T	K L27
29P	2021 08 26.13809	04 49 11.57	+30 59 12.1	14.3	T	K Z10	29P	2021 08 31.98019	04 51 36.01	+31 09 15.5	15.0	T	K I81
29P	2021 08 26.14578	04 49 11.76	+30 59 13.0	14.3	T	K Z10	29P	2021 09 01.02577	04 51 37.05	+31 09 20.8	15.3	T	K L27
29P	2021 08 26.15374	04 49 12.02	+30 59 14.4	14.4	T	C10	29P	2021 09 01.04110	04 51 37.41	+31 09 22.0	15.1	T	K I81
29P	2021 08 26.18231	04 49 12.78	+30 59 17.8	14.3	T	02G40	29P	2021 09 01.04542	04 51 37.50	+31 09 22.5	14.9	T	K I81
29P	2021 08 26.19640	04 49 13.14	+30 59 19.2	14.3	T	02G40	29P	2021 09 01.06852	04 51 38.04	+31 09 25.3	15.3	T	K L27
29P	2021 08 27.01399	04 49 34.59	+31 00 44.4	14.6	T	K G18	29P	2021 09 01.11194	04 51 39.01	+31 09 29.8	15.3	T	K L27
29P	2021 08 27.03716	04 49 35.25	+31 00 47.3	14.5	T	K G18	29P	2021 09 01.16267	04 51 40.14	+31 09 35.0	15.3	T	K L27
29P	2021 08 27.10426	04 49 36.96	+31 00 54.2	15.3	T	29G40	29P	2021 09 01.95859	04 51 58.09	+31 10 55.5	15.3	T	K C10
29P	2021 08 27.22954	04 49 40.18	+31 01 07.5	15.2	T	29G40	29P	2021 09 02.01092	04 51 59.14	+31 10 59.9	15.2	T	K C10
29P	2021 08 27.556918	04 49 48.67	+31 01 42.5	14.26o		T08	29P	2021 09 02.05601	04 52 00.24	+31 11 05.1	15.4	T	K 215
29P	2021 08 27.562178	04 49 48.80	+31 01 43.1	14.26o		T08	29P	2021 09 02.05730	04 52 00.27	+31 11 05.2	15.3	T	K 215
29P	2021 08 27.566323	04 49 48.91	+31 01 43.6	14.25o		T08	29P	2021 09 02.05859	04 52 00.31	+31 11 05.2	15.6	T	K 215
29P	2021 08 27.580261	04 49 49.27	+31 01 45.0	14.26o		T08	29P	2021 09 02.06061	04 52 00.34	+31 11 05.2	15.3	T	K C10
29P	2021 08 27.97923	04 49 59.46	+31 02 25.8	15.3	T	C23	29P	2021 09 02.10263	04 52 01.24	+31 11 09.6	15.3	T	K C10
29P	2021 08 27.98356	04 49 59.57	+31 02 26.2	14.8	T	C23	29P	2021 09 03.00086	04 52 20.94	+31 12 39.5	15.6	T	K C10
29P	2021 08 27.98789	04 49 59.66	+31 02 26.7	14.8	T	C23	29P	2021 09 03.05054	04 52 21.95	+31 12 44.7	15.6	T	K C10
29P	2021 08 28.00204	04 49 59.97	+31 02 28.7	14.8	T	K L27	29P	2021 09 03.10025	04 52 23.02	+31 12 50.2	15.6	T	K C10
29P	2021 08 28.05088	04 50 01.22	+31 02 33.3	14.7	T	K L27	29P	2021 09 03.14204	04 52 23.92	+31 12 54.4	15.6	T	K C10
29P	2021 08 28.06293	04 50 01.58	+31 02 34.2	15.0	T	29G40	29P	2021 09 03.18597	04 52 24.83	+31 12 58.7	15.7	T	02G40
29P	2021 08 28.09973	04 50 02.42	+31 02 38.3	14.7	T	K L27	29P	2021 09 03.19285	04 52 24.99	+31 12 59.3	15.7	T	02G40
29P	2021 08 28.13182	04 50 03.25	+31 02 41.4	14.9	T	Z10	29P	2021 09 03.99799	04 52 42.19	+31 14 18.7	16.4	T	C23
29P	2021 08 28.13887	04 50 03.44	+31 02 42.1	14.9	T	Z10	29P	2021 09 04.00520	04 52 42.29	+31 14 19.5	16.1	T	C23
29P	2021 08 28.13910	04 50 03.48	+31 02 42.4	16.7	T	29G40	29P	2021 09 04.01097	04 52 42.41	+31 14 19.9	16.1	T	C23
29P	2021 08 28.14669	04 50 03.63	+31 02 43.3	14.9	T	Z10	29P	2021 09 05.02893	04 53 03.43	+31 15 59.6	15.1	N	J38
29P	2021 08 28.14866	04 50 03.67	+31 02 44.3	14.7	T	K L27	29P	2021 09 05.04618	04 53 03.78	+31 16 01.2	15.1	N	J38
29P	2021 08 28.15999	04 50 03.94	+31 02 45.8	14.7	T	K L27	29P	2021 09 05.05050	04 53 03.79	+31 16 02.0	15.0	N	J38
29P	2021 08 28.73324	04 50 18.41	+31 03 44.8	13.9	T	349	29P	2021 09 05.06506	04 53 04.14	+31 16 03.6	14.6	N	J01
29P	2021 08 28.74032	04 50 18.58	+31 03 45.6			349	29P	2021 09 05.07396	04 53 04.30	+31 16 04.2	14.8	T	K 970
29P	2021 08 28.76185	04 50 19.11	+31 03 47.2	14.1	T	D95	29P	2021 09 05.08214	04 53 04.46	+31 16 04.9	14.9	T	K 970
29P	2021 08 28.76769	04 50 19.25	+31 03 47.8			D95	29P	2021 09 05.08763	04 53 04.60	+31 16 05.8	14.7	N	J01
29P	2021 08 28.99083	04 50 24.74	+31 04 11.4	15.0	T	K C10	29P	2021 09 05.10966	04 53 05.02	+31 16 08.2	14.6	N	J01
29P	2021 08 28.99808	04 50 25.00	+31 04 12.2			K 204	29P	2021 09 05.11912	04 53 05.19	+31 16 08.7	15.2	T	K 215
29P	2021 08 29.05426	04 50 26.39	+31 04 17.7	15.1	T	K C10	29P	2021 09 05.12041	04 53 05.21	+31 16 08.9	15.3	T	K 215
29P	2021 08 29.10736	04 50 27.68	+31 04 23.3	15.0	T	K C10	29P	2021 09 05.12170	04 53 05.23	+31 16 09.1	15.3	T	K 215
29P	2021 08 29.14704	04 50 28.64	+31 04 26.5	14.9	T	K 204	29P	2021 09 06.95889	04 53 41.03	+31 19 06.2	14.6	T	I81
29P	2021 08 29.15760	04 50 28.93	+31 04 28.9	15.0	T	K C10	29P	2021 09 06.96002	04 53 41.04	+31 19 05.8	14.5	T	I81
29P	2021 08 29.553801	04 50 38.68	+31 05 09.5	15.98o		T05	29P	2021 09 07.00839	04 53 42.04	+31 19 13.3	15.0	T	K L27
29P	2021 08 29.557469	04 50 38.76	+31 05 09.7	16.03o		T05	29P	2021 09 07.05420	04 53 42.87	+31 19 17.2	14.9	T	I81
29P	2021 08 29.563462	04 50 38.90	+31 05 10.4	16.05o		T05	29P	2021 09 07.05527	04 53 42.94	+31 19 17.5	15.1	T	K L27
29P	2021 08 29.576052	04 50 39.19	+31 05 12.0	16.02o		T05	29P	2021 09 07.10262	04 53 43.79	+31 19 22.4	15.0	T	K L27
29P	2021 08 30.06487	04 50 51.03	+31 06 01.1	15.4	T	K L27	29P	2021 09 07.10697	04 53 43.88	+31 19 22.4	15.0	T	K 970

29P	2021 09 07.12266	04 53 44.17	+31 19 24.0	15.0	T	K 970	
29P	2021 09 07.14245	04 53 44.53	+31 19 26.4	15.0	T	K L27	
29P	2021 09 07.16789	04 53 45.02	+31 19 28.8	15.0	T	K L27	
29P	2021 09 08.05214	04 54 01.40	+31 20 53.2	15.9	T	C23	
29P	2021 09 08.05964	04 54 01.48	+31 20 54.1	15.4	T	C23	
29P	2021 09 08.06223	04 54 01.60	+31 20 54.0	15.1	T	K 970	
29P	2021 09 08.06457	04 54 01.55	+31 20 54.4	14.9	T	I81	
29P	2021 09 08.06670	04 54 01.62	+31 20 54.5	15.0	T	I81	
29P	2021 09 08.06883	04 54 01.65	+31 20 54.8	15.0	T	I81	
29P	2021 09 08.06968	04 54 01.65	+31 20 55.2	15.1	T	K 970	
29P	2021 09 08.07097	04 54 01.69	+31 20 55.0	14.9	T	I81	
29P	2021 09 08.600606	04 54 11.17	+31 21 47.1	14.73o		T08	
29P	2021 09 08.603854	04 54 11.22	+31 21 47.3	14.75o		T08	
29P	2021 09 08.608963	04 54 11.30	+31 21 47.9	14.70o		T08	
29P	2021 09 08.620192	04 54 11.50	+31 21 48.9	14.74o		T08	
29P	2021 09 08.65953	04 54 12.15	+31 21 52.4	18	R	C51	
Geocentric position (km)		− 2089.1096	+ 5627.7950	+ 3296.0216			
29P	2021 09 08.79031	04 54 14.50	+31 22 05.1			C51	
Geocentric position (km)		− 2103.2510	+ 5646.3566	+ 3255.1353			
29P	2021 09 09.05174	04 54 19.03	+31 22 29.9			C51	
Geocentric position (km)		− 2128.8284	+ 5641.4800	+ 3246.9528			
29P	2021 09 09.11706	04 54 20.16	+31 22 35.6			C51	
Geocentric position (km)		− 2134.4988	+ 5629.9649	+ 3263.1242			
29P	2021 09 09.31303	04 54 23.46	+31 22 54.9			C51	
Geocentric position (km)		− 2151.2723	+ 5595.0679	+ 3311.6101			
29P	2021 09 09.63991	04 54 29.16	+31 23 25.5			C51	
Geocentric position (km)		− 2185.5732	+ 5619.9863	+ 3246.4825			
29P	2021 09 10.03655	04 54 36.05	+31 24 01.8	15.5	T	K 970	
29P	2021 09 10.05266	04 54 36.36	+31 24 03.2	15.4	T	K 970	
29P	2021 09 10.542720	04 54 44.33	+31 24 51.1	14.87c		T05	
29P	2021 09 10.547334	04 54 44.40	+31 24 51.7	14.92c		T05	
29P	2021 09 10.554283	04 54 44.52	+31 24 52.2	14.86c		T05	
29P	2021 09 10.565442	04 54 44.70	+31 24 53.3	15.00c		T05	
29P	2021 09 10.95545	04 54 50.98	+31 25 29.0	16.2	T	L79	
29P	2021 09 10.95740	04 54 51.06	+31 25 29.2	15.8	T	L79	
29P	2021 09 10.95994	04 54 51.12	+31 25 29.4	16.2	T	L79	
29P	2021 09 10.994734	04 54 51.70	+31 25 32.9	15.8	T	K G23	
29P	2021 09 11.007442	04 54 51.91	+31 25 34.3	15.8	T	K G23	
29P	2021 09 11.01686	04 54 52.05	+31 25 34.5	15.8	T	K L27	
29P	2021 09 11.020856	04 54 52.30	+31 25 36.1	15.8	T	K G23	
29P	2021 09 11.05667	04 54 52.73	+31 25 38.2	15.8	T	K L27	
29P	2021 09 11.10332	04 54 53.54	+31 25 42.4	15.9	T	K L27	
29P	2021 09 11.98498	04 55 07.35	+31 27 04.4	16.0	T	K L27	
29P	2021 09 12.006539	04 55 07.59	+31 27 06.0	14.9	T	K G23	
29P	2021 09 12.018542	04 55 07.69	+31 27 07.3	15.0	T	K G23	
29P	2021 09 12.030544	04 55 07.97	+31 27 08.6	14.9	T	K G23	
29P	2021 09 12.03192	04 55 07.96	+31 27 09.2	16.0	T	K L27	
29P	2021 09 12.04119	04 55 08.31	+31 27 08.5	16.0	N	J38	
29P	2021 09 12.04421	04 55 08.36	+31 27 09.1	15.7	N	J01	
29P	2021 09 12.05559	04 55 08.56	+31 27 10.0	16.1	N	J38	
29P	2021 09 12.05892	04 55 08.56	+31 27 10.6	15.7	N	J01	
29P	2021 09 12.05919	04 55 08.60	+31 27 10.3	16.1	N	J38	
29P	2021 09 12.07885	04 55 08.87	+31 27 12.8	15.9	T	K L27	
29P	2021 09 12.08836	04 55 09.04	+31 27 13.4	15.7	N	J01	
29P	2021 09 12.09909	04 55 09.18	+31 27 14.3	16.4	T	K Z10	
29P	2021 09 12.10376	04 55 09.25	+31 27 14.6	16.4	T	K Z10	
29P	2021 09 12.11076	04 55 09.33	+31 27 15.3	16.3	T	K Z10	
29P	2021 09 12.12585	04 55 09.59	+31 27 17.1	16.1	T	K L27	
29P	2021 09 12.17284	04 55 10.28	+31 27 21.6	16.1	T	K L27	
29P	2021 09 12.20657	04 55 10.91	+31 27 24.2	16.0	T	02 I22	
29P	2021 09 12.21139	04 55 10.92	+31 27 24.6	16.5	T	02 I22	
29P	2021 09 12.22103	04 55 11.09	+31 27 25.3	15.8	T	02 I22	
29P	2021 09 12.22587	04 55 11.18	+31 27 25.8	15.8	T	02 I22	
29P	2021 09 12.23068	04 55 11.23	+31 27 26.7	15.7	T	02 I22	
29P	2021 09 12.23551	04 55 11.32	+31 27 26.9	16.2	T	02 I22	
29P	2021 09 12.24034	04 55 11.39	+31 27 27.2	15.9	T	02 I22	
29P	2021 09 12.24517	04 55 11.48	+31 27 27.6	15.7	T	02 I22	
29P	2021 09 12.966201	04 55 22.19	+31 28 34.1	16.1	T	K L54	
29P	2021 09 12.974454	04 55 22.31	+31 28 34.8	16.1	T	K L54	
29P	2021 09 12.983125	04 55 22.44	+31 28 35.8	16.1	T	K L54	
29P	2021 09 13.94576	04 55 36.26	+31 30 02.7	16.0	T	K I81	
29P	2021 09 13.94753	04 55 36.22	+31 30 03.2	16.0	T	K I81	
29P	2021 09 13.94932	04 55 36.24	+31 30 03.4	16.0	T	K I81	
29P	2021 09 16.05704	04 56 04.18	+31 33 12.4	16.8	T	C23	
29P	2021 09 16.06137	04 56 04.25	+31 33 12.9	16.6	T	C23	
29P	2021 09 16.06715	04 56 04.27	+31 33 13.4	16.8	T	C23	
29P	2021 09 16.10374	04 56 04.74	+31 33 16.6	16.0	T	K 970	
29P	2021 09 16.15294	04 56 05.32	+31 33 21.1	16.3	T	K 970	
29P	2021 09 18.15191	04 56 28.52	+31 36 17.1	17.3	T	K G20	
29P	2021 09 18.15424	04 56 28.56	+31 36 17.2	17.3	T	K G20	
29P	2021 09 18.15732	04 56 28.60	+31 36 17.5	17.4	T	K G20	
29P	2021 09 18.593118	04 56 33.27	+31 36 55.5	16.33o		T05	
29P	2021 09 18.595880	04 56 33.30	+31 36 55.7	16.11o		T05	
29P	2021 09 18.599552	04 56 33.34	+31 36 55.9	16.05o		T05	
29P	2021 09 18.611342	04 56 33.49	+31 36 56.8	16.41o		T05	

36P/Whipple

36P	2020 09 19.393610	04 09 54.37	+12 31 06.8	20.72g		I41	
36P	2020 09 19.424791	04 09 54.92	+12 31 00.4	19.91r		I41	
36P	2020 09 20.413620	04 10 13.63	+12 27 34.1	19.83r		I41	
36P	2020 09 20.524160	04 10 15.47	+12 27 10.9	20.53g		I41	
36P	2020 11 21.329350	03 51 21.04	+07 50 03.5	19.29g		I41	
36P	2020 11 21.331319	03 51 20.93	+07 50 03.2	19.42g		I41	
36P	2020 11 21.339791	03 51 20.58	+07 50 01.3	19.01r		I41	
36P	2020 11 23.329069	03 49 59.50	+07 43 10.4	19.13r		I41	
36P	2020 11 23.346120	03 49 58.78	+07 43 07.0	19.73g		I41	

44P/Reinmuth

44P	2021 08 03.01484	16 05 52.89	−23 49 01.3	17.9	T	K X03	
44P	2021 08 03.02264	16 05 53.00	−23 49 00.6	17.8	T	K X03	
44P	2021 08 03.03155	16 05 53.08	−23 48 59.3	17.7	T	K X03	
44P	2021 08 03.04046	16 05 53.25	−23 48 57.9	17.8	T	X03	
44P	2021 08 15.33883	16 10 44.28	−23 32 29.0	18.9	T	K E94	
44P	2021 08 15.34901	16 10 44.61	−23 32 27.9	19.1	T	K E94	
44P	2021 08 15.35919	16 10 44.97	−23 32 27.4	19.0	T	K E94	
44P	2021 08 15.36936	16 10 45.21	−23 32 26.1	19.1	T	K E94	

47P/Ashbrook-Jackson

47P	2021 01 14.438030	11 28 23.74	+07 54 17.8	18.92g	I41
47P	2021 01 14.476530	11 28 23.28	+07 54 19.9	18.38r	I41
47P	2021 01 16.443030	11 27 59.60	+07 56 15.1	18.40r	I41
47P	2021 01 16.463980	11 27 59.32	+07 56 16.5	18.97g	I41

52P/Harrington-Abell

52P	2021 08 21.22088	07 43 40.67	+27 55 36.3	17.4 T	09G40
52P	2021 08 21.22800	07 43 41.85	+27 55 33.8	18.1 T	09G40
52P	2021 08 26.506310	07 58 55.46	+27 10 46.2	18.15r	I41
52P	2021 08 26.508681	07 58 55.81	+27 10 44.5	18.17r	I41
52P	2021 08 27.503330	08 01 46.95	+27 01 40.5	18.01r	I41
52P	2021 08 27.505709	08 01 47.35	+27 01 39.5	18.07r	I41
52P	2021 08 27.508069	08 01 47.76	+27 01 38.0	18.05r	I41
52P	2021 08 27.510440	08 01 48.20	+27 01 36.9	17.99r	I41
52P	2021 08 27.512800	08 01 48.58	+27 01 35.4	18.19r	I41
52P	2021 08 29.77899	08 08 17.16	+26 40 10.8	17.3 T	K Q11
52P	2021 08 29.78286	08 08 17.80	+26 40 08.4		K Q11
52P	2021 08 31.15397	08 12 11.81	+26 26 42.1	17.4 T	A77
52P	2021 08 31.15722	08 12 12.33	+26 26 40.4	17.3 T	A77
52P	2021 09 03.509420	08 21 41.01	+25 52 19.1	18.05r	I41
52P	2021 09 03.511840	08 21 41.39	+25 52 17.6	18.13r	I41
52P	2021 09 03.514270	08 21 41.84	+25 52 15.9	18.03r	I41
52P	2021 09 03.516690	08 21 42.20	+25 52 15.1	18.03r	I41
52P	2021 09 03.519120	08 21 42.64	+25 52 12.9	18.16r	I41
52P	2021 09 04.508470	08 24 29.50	+25 41 40.4	18.02r	I41
52P	2021 09 04.510890	08 24 29.90	+25 41 38.9	18.03r	I41
52P	2021 09 04.513319	08 24 30.33	+25 41 37.3	18.04r	I41
52P	2021 09 04.515740	08 24 30.71	+25 41 35.7	18.05r	I41
52P	2021 09 04.518170	08 24 31.17	+25 41 34.2	18.09r	I41
52P	2021 09 05.510069	08 27 17.97	+25 30 48.7	18.06r	I41
52P	2021 09 05.512490	08 27 18.38	+25 30 47.4	18.08r	I41
52P	2021 09 05.514910	08 27 18.78	+25 30 45.8	18.02r	I41
52P	2021 09 05.517340	08 27 19.22	+25 30 44.2	18.06r	I41
52P	2021 09 05.519760	08 27 19.61	+25 30 42.5	18.16r	I41
52P	2021 09 06.12043	08 29 00.40	+25 24 05.8	17.5 T	K 215
52P	2021 09 06.12172	08 29 00.61	+25 24 05.0	17.5 T	K 215
52P	2021 09 06.12301	08 29 00.83	+25 24 04.0	17.4 T	K 215
52P	2021 09 06.515150	08 30 06.54	+25 19 44.2	18.00r	I41
52P	2021 09 06.517580	08 30 06.93	+25 19 42.6	18.06r	I41
52P	2021 09 06.520020	08 30 07.37	+25 19 41.2	18.04r	I41
52P	2021 09 07.509209	08 32 52.72	+25 08 36.7	18.06r	I41
52P	2021 09 07.511610	08 32 53.16	+25 08 34.8	18.00r	I41
52P	2021 09 07.514000	08 32 53.56	+25 08 33.2	18.05r	I41
52P	2021 09 07.516400	08 32 53.97	+25 08 31.6	18.04r	I41
52P	2021 09 07.518800	08 32 54.36	+25 08 29.9	18.08r	I41
52P	2021 09 09.487555	08 38 21.83	+24 45 57.6	17.13G	703
52P	2021 09 09.492665	08 38 22.76	+24 45 53.3	17.06G	703
52P	2021 09 09.497763	08 38 23.59	+24 45 50.4	16.93G	703
52P	2021 09 09.502860	08 38 24.51	+24 45 45.8	17.06G	703
52P	2021 09 09.79253	08 39 12.68	+24 42 22.8	17.0 T	Q11
52P	2021 09 09.80100	08 39 14.07	+24 42 17.1		Q11
52P	2021 09 09.80806	08 39 15.25	+24 42 12.2		Q11
52P	2021 09 13.502060	08 49 23.48	+23 57 55.4	17.96r	I41
52P	2021 09 13.504480	08 49 23.91	+23 57 53.5	17.93r	I41
52P	2021 09 13.506910	08 49 24.31	+23 57 51.4	17.89r	I41
52P	2021 09 13.509330	08 49 24.71	+23 57 49.7	18.00r	I41
52P	2021 09 13.511750	08 49 25.09	+23 57 47.9	17.91r	I41
52P	2021 09 13.513170	08 49 25.39	+23 57 46.9	17.95r	I41
52P	2021 09 13.515569	08 49 25.76	+23 57 45.3	17.92r	I41
52P	2021 09 13.517959	08 49 26.14	+23 57 43.6	17.97r	I41
52P	2021 09 13.520360	08 49 26.54	+23 57 41.8	18.02r	I41
52P	2021 09 13.522750	08 49 26.94	+23 57 39.9	18.07r	I41
52P	2021 09 15.514500	08 54 51.68	+23 32 52.0	17.88r	I41
52P	2021 09 15.516890	08 54 52.06	+23 32 50.2	17.87r	I41
52P	2021 09 15.519270	08 54 52.46	+23 32 48.4	17.91r	I41
52P	2021 09 15.521660	08 54 52.84	+23 32 46.6	17.92r	I41
52P	2021 09 15.524050	08 54 53.21	+23 32 44.7	17.88r	I41

57P/du Toit-Neujmin-Delporte

57P	2021 06 05.60567	15 14 05.90	−13 38 04.0		01Q62
57P	2021 06 05.60924	15 14 05.75	−13 38 03.3	17.7 T	01Q62
57P	2021 08 06.281598	15 31 54.60	−15 12 18.5	17.78c	T08
57P	2021 08 06.284824	15 31 54.84	−15 12 19.3	17.58c	T08
57P	2021 08 06.291750	15 31 55.37	−15 12 22.1	17.91c	T08
57P	2021 08 06.301941	15 31 56.20	−15 12 25.9	17.64c	T08
57P	2021 08 08.279281	15 34 35.81	−15 23 53.1	16.84o	T05
57P	2021 08 08.282058	15 34 36.04	−15 23 53.6	17.14o	T05
57P	2021 08 08.288052	15 34 36.51	−15 23 56.5	16.99o	T05
57P	2021 08 08.300994	15 34 37.57	−15 24 00.0	18.00o	T05
57P	2021 08 10.261673	15 37 22.70	−15 35 37.8	17.59c	T08
57P	2021 08 10.265818	15 37 23.02	−15 35 39.7	18.48c	T08
57P	2021 08 10.271812	15 37 23.47	−15 35 41.5	18.42c	T08
57P	2021 08 10.286564	15 37 24.74	−15 35 46.5	18.22c	T08
57P	2021 08 11.84681	15 39 40.96	−15 45 12.9	17.2 T	K 215
57P	2021 08 11.84810	15 39 41.05	−15 45 13.4		K 215
57P	2021 08 11.84939	15 39 41.23	−15 45 13.4	16.9 T	K 215
57P	2021 08 15.31129	15 44 58.06	−16 06 24.1	17.5 T	K E94
57P	2021 08 15.32146	15 44 59.05	−16 06 26.8	17.7 T	K E94
57P	2021 08 15.32958	15 44 59.80	−16 06 29.4	17.5 T	K E94
57P	2021 08 24.309003	16 00 10.86	−17 03 15.7	17.91o	T05
57P	2021 08 24.312211	16 00 11.23	−17 03 17.8	17.12o	T05
57P	2021 08 24.313130	16 00 11.35	−17 03 19.4	17.30o	T05
57P	2021 08 24.316357	16 00 11.60	−17 03 18.9	17.91o	T05
57P	2021 08 24.317746	16 00 11.74	−17 03 19.2	17.92o	T05
57P	2021 08 24.323240	16 00 12.34	−17 03 22.2	17.94o	T05
57P	2021 08 24.330577	16 00 13.14	−17 03 25.1	18.17o	T05
57P	2021 08 24.337002	16 00 13.83	−17 03 26.9	18.00o	T05
57P	2021 08 25.26719	16 01 55.343	−17 09 21.85	18.8 w	F51
57P	2021 08 25.270619	16 01 55.73	−17 09 22.6	17.37o	T08
57P	2021 08 25.27171	16 01 55.838	−17 09 23.62	18.9 w	F51
57P	2021 08 25.273861	16 01 56.09	−17 09 24.0	17.22o	T08
57P	2021 08 25.27624	16 01 56.320	−17 09 25.23	18.7 w	F51
57P	2021 08 25.279862	16 01 56.74	−17 09 26.1	17.19o	T08
57P	2021 08 25.28075	16 01 56.809	−17 09 26.93	18.9 w	F51
57P	2021 08 25.295071	16 01 58.41	−17 09 31.8	17.12o	T08

57P	2021 08 28.43874	16 07 50.67	−17 29 27.1	16.6 T		Q11
57P	2021 08 28.44808	16 07 51.73	−17 29 30.1			Q11
57P	2021 08 28.45595	16 07 52.62	−17 29 33.3			Q11
57P	2021 08 29.242681	16 09 22.90	−17 34 29.3	17.93o		T08
57P	2021 08 29.245908	16 09 23.30	−17 34 30.8	17.41o		T08
57P	2021 08 29.251435	16 09 23.95	−17 34 32.7	17.25o		T08
57P	2021 08 29.261572	16 09 25.13	−17 34 36.5	17.29o		T08
57P	2021 08 31.237672	16 13 16.00	−17 46 59.4	18.20c		T05
57P	2021 08 31.246835	16 13 17.08	−17 47 02.4	17.55c		T05
57P	2021 08 31.258792	16 13 18.48	−17 47 07.6	17.63c		T05
57P	2021 09 04.254852	16 21 21.81	−18 11 43.9	17.21c		T05
57P	2021 09 04.258548	16 21 22.20	−18 11 44.8	17.17c		T05
57P	2021 09 04.264062	16 21 22.87	−18 11 47.1	17.47c		T05
57P	2021 09 04.274615	16 21 24.16	−18 11 50.3	17.38c		T05
57P	2021 09 05.79082	16 24 33.18	−18 21 01.7	17.8 T	K	A71
57P	2021 09 05.79584	16 24 33.74	−18 21 03.6	17.9 T	K	A71
57P	2021 09 05.80085	16 24 34.41	−18 21 05.5	17.8 T	K	A71
57P	2021 09 08.229615	16 29 43.46	−18 35 28.1	17.57c		T05
57P	2021 09 08.237406	16 29 44.39	−18 35 31.4	17.39c		T05
57P	2021 09 08.248864	16 29 45.85	−18 35 35.0	17.17c		T05
57P	2021 09 12.224581	16 38 27.77	−18 58 20.9	16.68o		T05
57P	2021 09 12.228242	16 38 28.19	−18 58 21.5	17.14o		T05
57P	2021 09 12.235569	16 38 29.16	−18 58 24.2	17.14o		T05
57P	2021 09 12.249310	16 38 30.99	−18 58 28.4	16.70o		T05

67P/Churyumov-Gerasimenko

67P	2021 08 04.66642	01 45 39.89	+06 06 59.8	13.5 T		349
67P	2021 08 04.66935	01 45 40.34	+06 07 02.6			349
67P	2021 08 05.65624	01 48 07.18	+06 21 04.8	15.7 T		Q21
67P	2021 08 05.66148	01 48 07.95	+06 21 09.5	15.0 T		Q21
67P	2021 08 05.66861	01 48 08.99	+06 21 15.5	15.6 T		Q21
67P	2021 08 05.67281	01 48 09.60	+06 21 19.2	15.6 T		Q21
67P	2021 08 06.10971	01 49 14.93	+06 27 33.8	14.6 T		Z10
67P	2021 08 06.11699	01 49 15.95	+06 27 39.9	14.7 T		Z10
67P	2021 08 06.12502	01 49 17.16	+06 27 46.8	14.6 T		Z10
67P	2021 08 06.335828	01 49 48.74	+06 30 47.8	16.3 T		KW62
67P	2021 08 06.340689	01 49 49.45	+06 30 52.5	16.7 T		KW62
67P	2021 08 06.345550	01 49 50.20	+06 30 56.7	16.2 T		KW62
67P	2021 08 06.543540	01 50 20.11	+06 33 50.1	14.88c		T08
67P	2021 08 06.550008	01 50 21.04	+06 33 55.8	14.41c		T08
67P	2021 08 06.552886	01 50 21.48	+06 33 58.2	14.88c		T08
67P	2021 08 06.563057	01 50 22.98	+06 34 06.9	14.91c		T08
67P	2021 08 07.09840	01 51 43.72	+06 41 45.6	14.5 T		104
67P	2021 08 07.11958	01 51 46.87	+06 42 03.9	14.7 T		104
67P	2021 08 07.606085	01 53 00.59	+06 49 08.4	14.84c		T08
67P	2021 08 07.611541	01 53 01.38	+06 49 13.3	14.32c		T08
67P	2021 08 07.613383	01 53 01.64	+06 49 15.0	14.31c		T08
67P	2021 08 07.620700	01 53 02.75	+06 49 21.3	14.85c		T08
67P	2021 08 08.567744	01 55 27.48	+07 03 04.3	14.50o		T05
67P	2021 08 08.570959	01 55 27.96	+07 03 07.1	14.49o		T05
67P	2021 08 08.573707	01 55 28.38	+07 03 09.5	14.50o		T05
67P	2021 08 08.586559	01 55 30.30	+07 03 20.7	14.48o		T05
67P	2021 08 09.027890	01 56 38.20	+07 09 41.9	14.0 T	K	L54
67P	2021 08 09.035314	01 56 39.34	+07 09 48.4	14.0 T	K	L54
67P	2021 08 09.043564	01 56 40.61	+07 09 55.6	14.0 T	K	L54
67P	2021 08 09.585800	01 58 04.16	+07 17 54.7	14.46o		T05
67P	2021 08 09.588603	01 58 04.58	+07 17 57.2	14.45o		T05
67P	2021 08 09.613316	01 58 08.32	+07 18 19.0	14.45o		T05
67P	2021 08 09.626127	01 58 10.25	+07 18 30.2	14.47o		T05
67P	2021 08 09.79913	01 58 37.01	+07 21 11.0	13.7 T		Q38
67P	2021 08 09.80219	01 58 37.49	+07 21 12.7	13.5 T		Q38
67P	2021 08 09.80484	01 58 37.84	+07 21 15.4	13.6 T		Q38
67P	2021 08 10.10911	01 59 25.45	+07 25 31.4	14.4 T		Z10
67P	2021 08 10.11274	01 59 25.83	+07 25 33.6	14.4 T	K	215
67P	2021 08 10.11403	01 59 26.03	+07 25 34.7	14.3 T	K	215
67P	2021 08 10.11532	01 59 26.23	+07 25 35.8	14.4 T	K	215
67P	2021 08 10.11609	01 59 26.50	+07 25 37.4	14.5 T		Z10
67P	2021 08 10.12385	01 59 27.65	+07 25 44.2	14.5 T		Z10
67P	2021 08 10.216498	01 59 41.938	+07 27 07.73	15.0 T		02 J04
67P	2021 08 10.217599	01 59 42.104	+07 27 08.77	15.2 T		02 J04
67P	2021 08 10.218700	01 59 42.276	+07 27 09.73	15.1 T		02 J04
67P	2021 08 10.219810	01 59 42.439	+07 27 10.73	14.9 T		02 J04
67P	2021 08 10.220907	01 59 42.613	+07 27 11.71	15.0 T		02 J04
67P	2021 08 10.222009	01 59 42.776	+07 27 12.65	15.1 T		02 J04
67P	2021 08 10.35437	02 00 03.45	+07 29 18.4	13.9 T		X02
67P	2021 08 10.36088	02 00 04.44	+07 29 24.1	13.9 T		X02
67P	2021 08 10.36789	02 00 05.51	+07 29 30.3	13.9 T		X02
67P	2021 08 10.551641	02 00 34.31	+07 32 04.7	14.21c		T08
67P	2021 08 10.555328	02 00 34.89	+07 32 08.0	14.74c		T08
67P	2021 08 10.560864	02 00 35.72	+07 32 12.9	14.21c		T08
67P	2021 08 10.575168	02 00 37.91	+07 32 25.5	14.76c		T08
67P	2021 08 10.71103	02 00 59.26	+07 34 23.0	14.1 T	K	Q21
67P	2021 08 10.71628	02 01 00.05	+07 34 27.4	14.4 T	K	Q21
67P	2021 08 11.63048	02 03 23.51	+07 48 09.3	14.6 T	K	E94
67P	2021 08 11.64067	02 03 25.16	+07 48 18.0	14.5 T	K	E94
67P	2021 08 11.65086	02 03 26.60	+07 48 26.5	14.5 T	K	E94
67P	2021 08 11.66102	02 03 28.19	+07 48 37.2	14.6 T	K	E94
67P	2021 08 12.03137	02 04 26.94	+07 53 52.6	14.0 T		L27
67P	2021 08 12.03854	02 04 28.07	+07 53 59.0	14.0 T		L27
67P	2021 08 12.04608	02 04 29.25	+07 54 05.9	14.0 T		L27
67P	2021 08 12.09487	02 04 36.87	+07 54 47.5	14.0 T		I81
67P	2021 08 12.09628	02 04 37.06	+07 54 48.5	14.0 T		I81
67P	2021 08 12.09771	02 04 37.28	+07 54 49.9	14.0 T		I81
67P	2021 08 12.09913	02 04 37.50	+07 54 51.1	14.0 T		I81
67P	2021 08 12.10056	02 04 37.78	+07 54 52.3	14.0 T		I81
67P	2021 08 12.10198	02 04 37.97	+07 54 53.8	14.0 T		I81
67P	2021 08 12.550029	02 05 49.13	+08 01 38.7	14.37o		T05
67P	2021 08 12.554243	02 05 49.77	+08 01 42.7	13.71o		T05
67P	2021 08 12.561637	02 05 50.92	+08 01 49.3	13.74o		T05
67P	2021 08 12.573573	02 05 52.78	+08 02 00.0	13.70o		T05
67P	2021 08 12.99551	02 07 00.25	+08 08 12.8	14.1 T		A71
67P	2021 08 12.99677	02 07 00.44	+08 08 14.1	14.1 T		A71
67P	2021 08 12.99802	02 07 00.63	+08 08 15.2	14.1 T		A71
67P	2021 08 12.99927	02 07 00.82	+08 08 16.5	14.1 T		A71
67P	2021 08 13.00052	02 07 01.02	+08 08 17.3	14.1 T		A71
67P	2021 08 13.00178	02 07 01.22	+08 08 18.6	14.1 T		A71

67P	2021 08 13.03562	02 07 06.58	+08 08 48.5	14.2	T		C23		67P	2021 08 18.486203	02 22 01.48	+09 31 40.7	13.52o			T08
67P	2021 08 13.03850	02 07 07.03	+08 08 51.1	14.5	T		C23		67P	2021 08 18.492879	02 22 02.59	+09 31 46.9	13.51o			T08
67P	2021 08 14.03107	02 09 46.46	+08 23 44.0	14.2	N		213		67P	2021 08 18.495763	02 22 03.08	+09 31 49.5	14.19o			T08
67P	2021 08 14.03215	02 09 46.56	+08 23 44.1	14.4	T		C23		67P	2021 08 18.500896	02 22 03.91	+09 31 54.4	13.48o			T08
67P	2021 08 14.04191	02 09 48.19	+08 23 54.8	14.3	N		213		67P	2021 08 18.71528	02 22 39.99	+09 35 10.8	14.4	T	K	Q21
67P	2021 08 14.04199	02 09 48.14	+08 23 53.1	14.3	T		C23		67P	2021 08 18.72052	02 22 40.87	+09 35 15.6	15.4	T	K	Q21
67P	2021 08 14.04920	02 09 49.26	+08 23 59.8	14.0	T		C23		67P	2021 08 18.976366	02 23 24.23	+09 39 11.1	13.8	T		G23
67P	2021 08 14.06236	02 09 51.44	+08 24 12.6	14.2	N		213		67P	2021 08 18.99138	02 23 26.96	+09 39 25.5	13.9	N		232
67P	2021 08 14.08025	02 09 54.32	+08 24 29.0	14.1	N		J01		67P	2021 08 18.99745	02 23 27.98	+09 39 31.1	13.9	N		232
67P	2021 08 14.08214	02 09 54.61	+08 24 30.5	14.5	T		A77		67P	2021 08 19.00911	02 23 29.98	+09 39 42.0	13.9	N		232
67P	2021 08 14.08626	02 09 55.29	+08 24 34.2	14.5	T		A77		67P	2021 08 19.013264	02 23 30.38	+09 39 45.3	13.5	T		G23
67P	2021 08 14.09123	02 09 56.06	+08 24 38.9	14.6	T		A77		67P	2021 08 19.04809	02 23 36.54	+09 40 18.0	13.9	N		J01
67P	2021 08 14.09395	02 09 56.51	+08 24 41.1	14.1	N		J01		67P	2021 08 19.051586	02 23 36.84	+09 40 21.7	13.9	T		G23
67P	2021 08 14.10310	02 09 57.96	+08 24 49.5	14.2	N		J01		67P	2021 08 19.07797	02 23 41.57	+09 40 46.6	14.0	N		J01
67P	2021 08 14.533757	02 11 07.66	+08 31 22.1	14.05c			T08		67P	2021 08 19.08257	02 23 42.30	+09 40 50.3	14.0	N		J01
67P	2021 08 14.544824	02 11 09.42	+08 31 32.2	14.04c			T08		67P	2021 08 19.589953	02 25 08.46	+09 48 47.8	13.43o			T08
67P	2021 08 14.559185	02 11 11.69	+08 31 45.2	14.03c			T08		67P	2021 08 19.600722	02 25 10.27	+09 48 57.5	14.12o			T08
67P	2021 08 14.564121	02 11 12.46	+08 31 49.6	14.02c			T08		67P	2021 08 19.601181	02 25 10.36	+09 48 58.3	14.13o			T08
67P	2021 08 15.06684	02 12 34.30	+08 39 20.5	13.8	T		C10		67P	2021 08 19.602609	02 25 10.58	+09 48 59.7	13.47o			T08
67P	2021 08 15.07885	02 12 36.24	+08 39 31.3	13.8	T		C10		67P	2021 08 19.603069	02 25 10.66	+09 49 00.1	13.41o			T08
67P	2021 08 15.09128	02 12 38.21	+08 39 42.8	13.8	T		C10		67P	2021 08 19.614893	02 25 12.65	+09 49 11.0	14.17o			T08
67P	2021 08 15.588065	02 13 59.29	+08 47 18.7	14.57c			T08		67P	2021 08 19.615355	02 25 12.72	+09 49 11.6	14.14o			T08
67P	2021 08 15.592755	02 14 00.03	+08 47 23.1	14.11c			T08		67P	2021 08 19.633286	02 25 15.71	+09 49 28.2	14.19o			T08
67P	2021 08 15.603762	02 14 01.79	+08 47 33.1	14.06c			T08		67P	2021 08 19.635128	02 25 16.00	+09 49 30.1	13.38o			T08
67P	2021 08 15.618805	02 14 04.20	+08 47 46.8	14.55c			T08		67P	2021 08 21.04405	02 29 19.05	+10 11 26.0	13.9	N		J38
67P	2021 08 16.04568	02 15 14.61	+08 54 11.7	14.2	T	K	G18		67P	2021 08 21.04731	02 29 19.58	+10 11 29.2	13.9	N		J38
67P	2021 08 16.05238	02 15 15.72	+08 54 17.7	14.3	T	K	G18		67P	2021 08 21.04813	02 29 19.67	+10 11 30.3	13.9	N		J38
67P	2021 08 16.06230	02 15 17.29	+08 54 24.7	13.8	T		I81		67P	2021 08 21.10270	02 29 29.05	+10 12 22.6	14.1	T		Z10
67P	2021 08 16.06372	02 15 17.55	+08 54 26.3	13.9	T		I81		67P	2021 08 21.10971	02 29 30.28	+10 12 28.8	14.1	T		Z10
67P	2021 08 16.06512	02 15 17.72	+08 54 27.5	13.8	T		I81		67P	2021 08 21.11750	02 29 31.58	+10 12 36.4	14.1	T		Z10
67P	2021 08 16.06652	02 15 17.97	+08 54 29.0	13.9	T		I81		67P	2021 08 22.541566	02 33 40.67	+10 35 07.7	14.11o			T08
67P	2021 08 16.06793	02 15 18.22	+08 54 30.3	13.8	T		I81		67P	2021 08 22.544797	02 33 41.23	+10 35 10.8	14.13o			T08
67P	2021 08 16.533178	02 16 35.07	+09 01 41.2	14.24o			T05		67P	2021 08 22.548494	02 33 41.84	+10 35 14.4	13.38o			T08
67P	2021 08 16.550726	02 16 37.91	+09 01 57.4	14.24o			T05		67P	2021 08 22.553563	02 33 42.74	+10 35 19.1	14.12o			T08
67P	2021 08 16.559436	02 16 39.31	+09 02 05.5	14.24o			T05		67P	2021 08 23.951162	02 37 51.17	+10 57 27.7	13.7	T	K	L54
67P	2021 08 16.99812	02 17 52.19	+09 08 44.2	13.8	T		L85		67P	2021 08 23.963537	02 37 53.36	+10 57 39.5	13.7	T	K	L54
67P	2021 08 17.03243	02 17 57.80	+09 09 15.9	13.8	T		L85		67P	2021 08 23.96841	02 37 54.25	+10 57 43.3	13.8	T		C23
67P	2021 08 17.10242	02 18 09.36	+09 10 20.7	15.1	T		A77		67P	2021 08 23.97274	02 37 55.00	+10 57 47.7	14.3	T		C23
67P	2021 08 17.10245	02 18 09.44	+09 10 20.0	14.3	T		Z10		67P	2021 08 23.975916	02 37 55.56	+10 57 51.5	13.6	T	K	L54
67P	2021 08 17.11029	02 18 10.70	+09 10 27.2	14.3	T		Z10		67P	2021 08 23.97707	02 37 55.79	+10 57 51.6	14.0	T		C23
67P	2021 08 17.11215	02 18 10.94	+09 10 30.3	14.9	T		A77		67P	2021 08 23.995538	02 37 59.00	+10 58 09.5	13.4	T	K	Z80
67P	2021 08 17.12268	02 18 12.70	+09 10 39.1	14.9	T		A77		67P	2021 08 23.999010	02 37 59.66	+10 58 12.7	13.4	T	K	Z80
67P	2021 08 18.05369	02 20 48.63	+09 24 57.1	14.0	N		Z55		67P	2021 08 24.002483	02 38 00.27	+10 58 16.0	13.4	T	K	Z80
67P	2021 08 18.05440	02 20 48.76	+09 24 57.7	14.0	N		Z55		67P	2021 08 24.05919	02 38 10.37	+10 59 10.6	13.7	T		G06
67P	2021 08 18.05512	02 20 48.88	+09 24 58.2	14.0	N		Z55		67P	2021 08 24.06800	02 38 11.90	+10 59 19.2	13.7	T		G06
67P	2021 08 18.05544	02 20 48.89	+09 24 58.5	13.3	T		A77		67P	2021 08 24.07459	02 38 13.07	+10 59 25.6	13.7	T		G06
67P	2021 08 18.05584	02 20 48.97	+09 24 59.0	14.0	N		Z55		67P	2021 08 24.08340	02 38 14.62	+10 59 34.1	13.6	T		G06
67P	2021 08 18.05655	02 20 49.13	+09 24 59.9	14.0	N		Z55		67P	2021 08 24.550030	02 39 38.54	+11 07 07.6	14.00o			T05
67P	2021 08 18.06112	02 20 49.82	+09 25 03.8	13.4	T		A77		67P	2021 08 24.551860	02 39 38.87	+11 07 09.3	14.00o			T05
67P	2021 08 18.06679	02 20 50.76	+09 25 08.5	13.5	T		A77		67P	2021 08 24.554605	02 39 39.34	+11 07 12.1	13.25o			T05
67P	2021 08 18.09834	02 20 56.02	+09 25 38.0	14.2	T		Z10		67P	2021 08 24.564790	02 39 41.12	+11 07 22.0	13.28o			T05
67P	2021 08 18.10545	02 20 57.20	+09 25 44.9	14.2	T		Z10		67P	2021 08 25.557332	02 42 41.02	+11 23 19.0	13.33o			T05
67P	2021 08 18.11256	02 20 58.35	+09 25 51.6	14.2	T		Z10		67P	2021 08 25.559630	02 42 41.44	+11 23 21.2	14.02o			T05

67P	2021 08 25.562375	02 42 41.93	+11 23 23.8	14.02o		T05
67P	2021 08 25.586880	02 42 46.29	+11 23 47.7	14.06o		T05
67P	2021 08 25.67079	02 43 01.84	+11 25 05.9	12.7 T		349
67P	2021 08 25.67561	02 43 02.72	+11 25 10.5			349
67P	2021 08 25.68044	02 43 03.58	+11 25 15.5			349
67P	2021 08 27.09873	02 47 24.40	+11 48 12.1	13.6 N		I88
67P	2021 08 27.10262	02 47 25.11	+11 48 15.9	13.6 N		I88
67P	2021 08 27.10572	02 47 25.67	+11 48 18.9	13.6 N		I88
67P	2021 08 30.08291	02 56 46.86	+12 37 03.1	13.9 T	K	160
67P	2021 08 30.08844	02 56 47.94	+12 37 08.8	13.9 T	K	160
67P	2021 08 30.09390	02 56 48.94	+12 37 14.1	14.0 T	K	160
67P	2021 08 31.12805	03 00 08.40	+12 54 20.9	14.8 T		A77
67P	2021 08 31.13379	03 00 09.49	+12 54 26.6	14.8 T		A77
67P	2021 08 31.13950	03 00 10.59	+12 54 32.4	12.8 T		A77
67P	2021 08 31.593108	03 01 38.75	+13 02 08.4	13.00o		T08
67P	2021 08 31.597264	03 01 39.55	+13 02 12.4	13.76o		T08
67P	2021 08 31.599105	03 01 39.88	+13 02 14.4	12.98o		T08
67P	2021 08 31.612540	03 01 42.43	+13 02 27.7	12.94o		T08
67P	2021 09 01.02457	03 03 03.42	+13 09 10.7	13.2 T	K	I81
67P	2021 09 01.03113	03 03 04.68	+13 09 17.1	13.2 T	K	I81
67P	2021 09 01.03545	03 03 05.54	+13 09 21.3	13.2 T	K	I81
67P	2021 09 02.03740	03 06 23.09	+13 26 06.1		K	G18
67P	2021 09 02.04759	03 06 25.08	+13 26 16.4	13.2 T	K	G18
67P	2021 09 02.31556	03 07 18.21	+13 31 01.0	14.1 T	23	W88
67P	2021 09 02.32668	03 07 20.36	+13 31 12.3	14.2 T	23	W88
67P	2021 09 02.33976	03 07 22.91	+13 31 25.2	14.2 T	23	W88
67P	2021 09 03.03258	03 09 41.57	+13 42 44.4	13.2 T		G06
67P	2021 09 03.04337	03 09 43.72	+13 42 54.7	13.2 T		G06
67P	2021 09 03.04697	03 09 44.39	+13 42 58.3	13.2 T		G06
67P	2021 09 03.05056	03 09 45.14	+13 43 02.6	13.2 T		G06
67P	2021 09 04.04786	03 13 06.41	+13 59 48.5	13.3 N		J01
67P	2021 09 04.05472	03 13 07.82	+13 59 55.8	13.3 N		J01
67P	2021 09 04.06847	03 13 10.61	+14 00 09.7	13.3 N		J01
67P	2021 09 04.554358	03 14 49.30	+14 08 26.2	13.56o		T08
67P	2021 09 04.557122	03 14 49.84	+14 08 29.3	12.69o		T08
67P	2021 09 04.562295	03 14 50.88	+14 08 34.2	13.67o		T08
67P	2021 09 04.567538	03 14 51.92	+14 08 39.5	13.63o		T08
67P	2021 09 04.602559	03 14 58.86	+14 09 15.2	12.86o		T08
67P	2021 09 04.605356	03 14 59.44	+14 09 17.7	13.61o		T08
67P	2021 09 04.633564	03 15 05.05	+14 09 46.3	12.84o		T08
67P	2021 09 05.01984	03 16 24.82	+14 16 10.7	13.4 N		J38
67P	2021 09 05.02064	03 16 24.99	+14 16 11.7	13.4 N		J38
67P	2021 09 05.02392	03 16 25.62	+14 16 15.4	13.4 N		J38
67P	2021 09 05.03181	03 16 27.03	+14 16 22.8	13.3 T		A71
67P	2021 09 05.03363	03 16 27.38	+14 16 24.5	13.3 T		A71
67P	2021 09 05.03545	03 16 27.77	+14 16 26.3	13.3 T		A71
67P	2021 09 05.03727	03 16 28.09	+14 16 28.0	13.3 T		A71
67P	2021 09 05.03909	03 16 28.44	+14 16 29.8	13.4 T		A71
67P	2021 09 05.04090	03 16 28.89	+14 16 32.1	13.3 T		A71
67P	2021 09 05.21942	03 17 05.17	+14 19 36.5	14.4 N		J22
67P	2021 09 05.22326	03 17 05.95	+14 19 41.0	14.4 N		J22
67P	2021 09 05.22709	03 17 06.73	+14 19 44.3	14.4 N		J22
67P	2021 09 06.00781	03 19 48.74	+14 32 51.7	13.2 N		J38
67P	2021 09 06.01027	03 19 49.25	+14 32 55.0	13.3 N		J38
67P	2021 09 06.01108	03 19 49.36	+14 32 55.8	13.3 N		J38
67P	2021 09 06.21600	03 20 31.23	+14 36 27.4	13.6 N		J22
67P	2021 09 06.21978	03 20 32.04	+14 36 31.9	13.6 N		J22
67P	2021 09 06.22361	03 20 32.81	+14 36 35.0	13.6 N		J22
67P	2021 09 06.227019	03 20 33.616	+14 36 39.71	14.0 T	02	J04
67P	2021 09 06.227833	03 20 33.777	+14 36 40.45	14.4 T	02	J04
67P	2021 09 06.228657	03 20 33.945	+14 36 41.20	14.3 T	02	J04
67P	2021 09 06.462204	03 21 22.50	+14 40 38.0	12.13G		703
67P	2021 09 06.467462	03 21 23.59	+14 40 43.3	12.15G		703
67P	2021 09 06.472716	03 21 24.61	+14 40 48.6	12.11G		703
67P	2021 09 06.477984	03 21 25.71	+14 40 54.0	12.12G		703
67P	2021 09 06.610839	03 21 53.61	+14 43 11.7	13.15c		T05
67P	2021 09 06.620308	03 21 55.53	+14 43 21.4	13.12c		T05
67P	2021 09 06.626447	03 21 56.78	+14 43 27.5	13.09c		T05
67P	2021 09 07.01603	03 23 19.08	+14 49 58.3	13.3 N		J38
67P	2021 09 07.01684	03 23 19.22	+14 49 59.1	13.3 N		J38
67P	2021 09 07.01766	03 23 19.40	+14 49 59.1	13.3 N		J38
67P	2021 09 07.210205	03 23 59.358	+14 53 19.75	14.1 T	02	J04
67P	2021 09 07.211029	03 23 59.533	+14 53 20.64	14.1 T	02	J04
67P	2021 09 07.211854	03 23 59.692	+14 53 21.36	14.3 T	02	J04
67P	2021 09 08.02988	03 26 52.95	+15 07 09.7	13.9 T		C23
67P	2021 09 08.03661	03 26 54.37	+15 07 16.6	13.5 T		C23
67P	2021 09 08.04410	03 26 55.93	+15 07 24.3	13.5 T		C23
67P	2021 09 08.14576	03 27 17.24	+15 09 08.2	13.1 T	K	970
67P	2021 09 08.14986	03 27 18.09	+15 09 12.6	13.1 T	K	970
67P	2021 09 08.18878	03 27 26.37	+15 09 57.3	12.5 T	02	G40
67P	2021 09 08.19394	03 27 27.43	+15 10 02.6	12.5 T	02	G40
67P	2021 09 08.20000	03 27 28.68	+15 10 08.8	12.5 T	02	G40
67P	2021 09 08.553078	03 28 44.23	+15 16 10.8	13.70o		T08
67P	2021 09 08.561705	03 28 46.02	+15 16 19.9	12.72o		T08
67P	2021 09 08.563545	03 28 46.40	+15 16 21.8	12.67o		T08
67P	2021 09 08.589838	03 28 51.87	+15 16 48.7	12.67o		T08
67P	2021 09 09.70331	03 32 51.69	+15 35 42.0			P87
67P	2021 09 09.70980	03 32 53.08	+15 35 48.8	11.3 T		P87
67P	2021 09 09.99332	03 33 54.61	+15 40 35.9	12.9 T	K	G18
67P	2021 09 10.01398	03 33 59.05	+15 40 57.2	12.9 T	K	G18
67P	2021 09 10.427175	03 35 28.56	+15 48 03.2	11.85G		703
67P	2021 09 10.432409	03 35 29.69	+15 48 08.6	11.83G		703
67P	2021 09 10.43745	03 35 30.70	+15 48 14.0	12.6 T	K	H47
67P	2021 09 10.437652	03 35 30.84	+15 48 14.1	11.88G		703
67P	2021 09 10.44282	03 35 31.85	+15 48 19.6	12.6 T	K	H47
67P	2021 09 10.44890	03 35 33.11	+15 48 26.0	12.6 T	K	H47
67P	2021 09 10.505974	03 35 46.22	+15 49 26.5	12.90c		T05
67P	2021 09 10.508778	03 35 46.80	+15 49 29.4	12.93c		T05
67P	2021 09 10.513839	03 35 47.89	+15 49 34.5	13.66c		T05
67P	2021 09 10.518902	03 35 48.99	+15 49 39.9	12.97c		T05
67P	2021 09 10.65558	03 36 19.03	+15 51 54.9	12.9 T		G26
67P	2021 09 10.68897	03 36 26.34	+15 52 29.3	12.2 T		G26
67P	2021 09 10.76834	03 36 43.12	+15 54 07.4	11.9 T		Q38
67P	2021 09 10.77030	03 36 43.51	+15 54 10.0	12.7 T		Q38
67P	2021 09 10.77188	03 36 43.90	+15 54 11.0	12.7 T		Q38
67P	2021 09 10.77345	03 36 44.18	+15 54 12.8	12.7 T		Q38

67P	2021 09 10.77502	03 36 44.57	+15 54 14.3	12.8	T	Q38
67P	2021 09 10.77659	03 36 44.90	+15 54 15.8	12.8	T	Q38
67P	2021 09 10.93144	03 37 19.37	+15 56 34.5	12.6	T	A98
67P	2021 09 10.93291	03 37 19.66	+15 56 35.9	12.7	T	A98
67P	2021 09 10.93703	03 37 20.57	+15 56 40.2	12.5	T	A98
67P	2021 09 10.93851	03 37 20.89	+15 56 41.8	12.4	T	A98
67P	2021 09 10.94071	03 37 21.34	+15 56 44.1	12.3	T	A98
67P	2021 09 10.94373	03 37 22.03	+15 56 47.2	12.5	T	A98
67P	2021 09 10.94780	03 37 22.92	+15 56 51.5	12.5	T	A98
67P	2021 09 10.94927	03 37 23.23	+15 56 52.9	12.4	T	A98
67P	2021 09 10.96155	03 37 25.96	+15 57 06.9	12.7	T	L79
67P	2021 09 10.96453	03 37 26.60	+15 57 09.8	12.6	T	L79
67P	2021 09 10.96706	03 37 27.15	+15 57 12.5	12.6	T	L79
67P	2021 09 11.02190	03 37 39.16	+15 58 09.0	12.3	T	K47
67P	2021 09 11.02471	03 37 39.77	+15 58 11.8	12.4	T	K47
67P	2021 09 11.02783	03 37 40.47	+15 58 14.8	12.3	T	K47
67P	2021 09 11.028067	03 37 40.23	+15 58 15.0	12.5	T	OG23
67P	2021 09 11.02955	03 37 40.95	+15 58 16.5	13.1	N	J01
67P	2021 09 11.03093	03 37 41.08	+15 58 19.2	12.3	T	K47
67P	2021 09 11.03403	03 37 41.79	+15 58 21.7	12.3	T	K47
67P	2021 09 11.047836	03 37 44.52	+15 58 35.4	12.4	T	OG23
67P	2021 09 11.05471	03 37 46.39	+15 58 42.5	13.1	N	J01
67P	2021 09 11.06843	03 37 49.40	+15 58 56.7	13.2	N	J01
67P	2021 09 11.069028	03 37 49.10	+15 58 56.9	12.4	T	OG23
67P	2021 09 11.41950	03 39 06.27	+16 05 00.0	12.6	T	KH47
67P	2021 09 11.42453	03 39 07.34	+16 05 05.1	12.6	T	KH47
67P	2021 09 11.43073	03 39 08.68	+16 05 11.4	12.6	T	KH47
67P	2021 09 12.00332	03 41 16.10	+16 14 52.6	13.2	N	J38
67P	2021 09 12.00593	03 41 16.71	+16 14 55.7	13.2	N	J38
67P	2021 09 12.00768	03 41 17.06	+16 14 57.4	13.2	N	J38
67P	2021 09 12.01969	03 41 19.58	+16 15 10.2			K 204
67P	2021 09 12.037153	03 41 23.15	+16 15 28.1	12.5	T	G23
67P	2021 09 12.05626	03 41 27.60	+16 15 48.1	12.7	T	K 204
67P	2021 09 12.056933	03 41 27.46	+16 15 48.7	12.5	T	G23
67P	2021 09 12.07752	03 41 32.44	+16 16 10.2	13.4	T	Z10
67P	2021 09 12.078125	03 41 32.11	+16 16 10.5	12.6	T	G23
67P	2021 09 12.08450	03 41 33.95	+16 16 17.8	13.4	T	Z10
67P	2021 09 12.09228	03 41 35.68	+16 16 26.0	13.4	T	Z10
67P	2021 09 12.17197	03 41 52.90	+16 17 47.0	14.5	T	A77
67P	2021 09 12.17479	03 41 53.54	+16 17 50.4	14.6	T	A77
67P	2021 09 12.17851	03 41 54.33	+16 17 54.0	12.2	T	A77
67P	2021 09 12.533525	03 43 13.92	+16 24 03.5	11.34o		T08
67P	2021 09 12.535367	03 43 14.32	+16 24 05.1	11.59o		T08
67P	2021 09 12.537717	03 43 14.86	+16 24 07.5	12.09o		T08
67P	2021 09 12.538178	03 43 14.93	+16 24 08.3	11.30o		T08
67P	2021 09 12.539561	03 43 15.27	+16 24 09.5	12.02o		T08
67P	2021 09 12.543716	03 43 16.15	+16 24 13.8	11.65o		T08
67P	2021 09 12.545578	03 43 16.58	+16 24 15.7	12.01o		T08
67P	2021 09 12.550647	03 43 17.69	+16 24 20.7	12.10o		T08
67P	2021 09 12.95672	03 44 48.99	+16 31 08.4			KG18
67P	2021 09 12.96174	03 44 50.11	+16 31 13.9			KG18
67P	2021 09 13.06979	03 45 13.86	+16 33 04.6	11.6	T	A98
67P	2021 09 13.07126	03 45 14.19	+16 33 06.0	11.6	T	A98
67P	2021 09 13.07273	03 45 14.52	+16 33 07.5	11.7	T	A98
67P	2021 09 13.07420	03 45 14.82	+16 33 09.1	11.9	T	A98
67P	2021 09 13.07567	03 45 15.16	+16 33 10.5	11.6	T	A98
67P	2021 09 13.07714	03 45 15.50	+16 33 11.9	11.7	T	A98
67P	2021 09 13.07934	03 45 16.00	+16 33 14.3	11.6	T	A98
67P	2021 09 13.10252	03 45 21.33	+16 33 40.3	13.5	T	G20
67P	2021 09 13.11330	03 45 23.71	+16 33 51.3	13.5	T	G20
67P	2021 09 13.11642	03 45 24.51	+16 33 54.2	14.6	T	A77
67P	2021 09 13.12228	03 45 25.75	+16 34 00.1	14.7	T	A77
67P	2021 09 13.12486	03 45 26.24	+16 34 03.2	13.5	T	G20
67P	2021 09 13.12815	03 45 27.07	+16 34 05.9	12.0	T	A77
67P	2021 09 13.18885	03 45 40.65	+16 35 12.1	12.3	T	02G40
67P	2021 09 13.19390	03 45 41.75	+16 35 17.4	12.2	T	02G40
67P	2021 09 13.19998	03 45 43.08	+16 35 23.6	12.2	T	02G40
67P	2021 09 13.380628	03 46 24.06	+16 38 26.1	11.88G		703
67P	2021 09 13.385931	03 46 25.27	+16 38 31.7	11.85G		703
67P	2021 09 13.394939	03 46 27.30	+16 38 37.8			703
67P	2021 09 13.95542	03 48 34.34	+16 48 07.7	12.8	T	I81
67P	2021 09 13.95969	03 48 35.25	+16 48 12.3	12.8	T	I81
67P	2021 09 13.96537	03 48 36.54	+16 48 18.5	12.8	T	I81
67P	2021 09 13.96822	03 48 37.22	+16 48 21.3	12.8	T	I81
67P	2021 09 14.10579	03 49 08.10	+16 50 45.2	12.5	T	K74
67P	2021 09 14.10734	03 49 08.44	+16 50 46.8	12.6	T	K74
67P	2021 09 14.10888	03 49 08.79	+16 50 48.4	12.6	T	K74
67P	2021 09 14.17797	03 49 24.49	+16 52 03.8	13.4	N	J22
67P	2021 09 14.18176	03 49 25.30	+16 52 06.9	13.4	N	J22
67P	2021 09 14.18557	03 49 26.16	+16 52 10.9	13.4	N	J22
67P	2021 09 15.93799	03 56 09.59	+17 21 54.4	12.7	T	B96
67P	2021 09 15.94292	03 56 10.76	+17 22 00.5	12.8	T	B96
67P	2021 09 15.94785	03 56 11.90	+17 22 05.6	12.8	T	B96
67P	2021 09 16.04213	03 56 33.41	+17 23 42.1	13.0	T	C23
67P	2021 09 16.04790	03 56 34.73	+17 23 48.1	13.2	T	C23
67P	2021 09 16.05512	03 56 36.39	+17 23 55.4	13.3	T	C23
67P	2021 09 16.07596	03 56 41.20	+17 24 16.6	12.8	T	K 970
67P	2021 09 16.08343	03 56 42.90	+17 24 24.4	12.9	T	K 970
67P	2021 09 16.418444	03 58 00.70	+17 30 10.8	11.66G		703
67P	2021 09 16.423711	03 58 01.91	+17 30 16.3	11.66G		703
67P	2021 09 16.428975	03 58 03.15	+17 30 21.8	11.75G		703
67P	2021 09 16.434246	03 58 04.38	+17 30 27.3	11.90G		703
67P	2021 09 16.971302	04 00 10.48	+17 39 26.7	12.7	T	K Z80
67P	2021 09 16.973387	04 00 10.96	+17 39 29.1	12.7	T	K Z80
67P	2021 09 16.975470	04 00 11.44	+17 39 31.1	12.7	T	K Z80
67P	2021 09 17.05709	04 00 30.68	+17 40 57.8	13.2	T	Z10
67P	2021 09 17.06414	04 00 32.26	+17 41 04.9	13.3	T	Z10
67P	2021 09 17.07199	04 00 34.12	+17 41 13.1	13.2	T	Z10
67P	2021 09 17.35524	04 01 40.25	+17 46 18.7	14.1	T	X03
67P	2021 09 17.36462	04 01 42.42	+17 46 28.1	14.0	T	X03
67P	2021 09 17.37448	04 01 44.67	+17 46 38.6	14.0	T	X03
67P	2021 09 17.39007	04 01 48.27	+17 46 54.4	14.0	T	X03
67P	2021 09 17.39649	04 01 49.73	+17 47 00.7	14.0	T	X03
67P	2021 09 17.40242	04 01 51.09	+17 47 06.8	11.7	T	X03
67P	2021 09 18.04701	04 04 24.26	+17 57 42.6	12.9	N	213
67P	2021 09 18.06130	04 04 27.66	+17 57 57.4	12.9	N	213

67P	2021 09 18.07106	04 04 29.87	+17 58 07.4	13.0	N	213
67P	2021 09 18.07363	04 04 30.50	+17 58 09.5	12.2	T	A77
67P	2021 09 18.07829	04 04 31.58	+17 58 14.2	14.6	T	A77
67P	2021 09 18.08303	04 04 32.66	+17 58 19.2	14.6	T	A77
67P	2021 09 18.09187	04 04 34.68	+17 58 28.9	13.5	T	G20
67P	2021 09 18.11423	04 04 39.89	+17 58 51.6	13.5	T	G20
67P	2021 09 18.13735	04 04 45.27	+17 59 15.1	13.5	T	G20
67P	2021 09 18.574258	04 06 29.45	+18 06 42.9	13.46o		T05
67P	2021 09 18.576545	04 06 29.97	+18 06 45.5	12.30o		T05
67P	2021 09 18.579289	04 06 30.60	+18 06 48.3	12.19o		T05
67P	2021 09 18.584514	04 06 31.82	+18 06 53.6	12.20o		T05

70P/Kojima

70P	2020 09 24.377370	01 08 34.05	−02 11 18.9	20.69r		I41
70P	2020 09 24.413550	01 08 32.59	−02 11 30.9	20.86r		I41
70P	2020 09 25.332370	01 07 56.74	−02 16 33.0	21.18g		I41
70P	2020 09 25.355810	01 07 55.82	−02 16 41.2	20.67r		I41
70P	2021 08 23.509690	07 26 22.19	+19 38 44.7	18.55r		I41
70P	2021 08 24.504160	07 28 42.70	+19 35 17.8	18.78r		I41
70P	2021 08 24.506550	07 28 43.04	+19 35 16.9	18.94r		I41
70P	2021 08 24.511350	07 28 43.70	+19 35 15.8	18.85r		I41
70P	2021 08 27.502860	07 35 46.03	+19 24 10.9	18.86r		I41
70P	2021 08 27.505230	07 35 46.36	+19 24 10.5	19.04r		I41
70P	2021 08 27.507600	07 35 46.66	+19 24 10.0	19.03r		I41
70P	2021 08 27.509970	07 35 47.00	+19 24 09.5	18.99r		I41
70P	2021 08 27.512330	07 35 47.35	+19 24 09.4	18.83r		I41
70P	2021 08 27.78252	07 36 25.43	+19 23 06.2	17.7	T	K Q11
70P	2021 08 27.79133	07 36 26.69	+19 23 04.4			K Q11
70P	2021 08 28.505230	07 38 07.35	+19 20 14.9	19.02r		I41
70P	2021 08 28.507650	07 38 07.67	+19 20 14.5	19.03r		I41
70P	2021 08 28.510069	07 38 08.02	+19 20 14.0	18.98r		I41
70P	2021 08 28.512500	07 38 08.41	+19 20 13.2	19.00r		I41
70P	2021 08 28.514920	07 38 08.71	+19 20 12.8	18.96r		I41
70P	2021 08 28.78222	07 38 46.33	+19 19 08.3			Q11
70P	2021 08 28.78859	07 38 47.25	+19 19 06.9	17.4	T	Q11
70P	2021 08 28.79493	07 38 48.13	+19 19 05.3			Q11
70P	2021 08 30.506931	07 42 49.31	+19 12 02.6	18.87r		I41
70P	2021 08 30.509360	07 42 49.66	+19 12 02.1	18.87r		I41
70P	2021 08 30.511810	07 42 50.00	+19 12 01.3	18.86r		I41
70P	2021 08 30.514240	07 42 50.34	+19 12 00.7	18.90r		I41
70P	2021 08 30.516681	07 42 50.71	+19 12 00.2	18.81r		I41
70P	2021 09 05.14968	07 56 01.52	+18 46 33.3	18.0	T	K A77
70P	2021 09 05.15616	07 56 02.44	+18 46 31.5	17.9	T	K A77
70P	2021 09 05.16062	07 56 03.03	+18 46 29.4	18.1	T	K A77
70P	2021 09 06.13861	07 58 19.83	+18 41 44.4	18.3	T	K 215
70P	2021 09 06.13990	07 58 20.01	+18 41 44.1	18.4	T	K 215
70P	2021 09 06.14119	07 58 20.19	+18 41 43.7	18.3	T	K 215
70P	2021 09 07.497120	08 01 29.64	+18 34 58.3	18.70r		I41
70P	2021 09 07.499541	08 01 29.99	+18 34 57.5	18.78r		I41
70P	2021 09 07.501959	08 01 30.30	+18 34 56.8	18.72r		I41
70P	2021 09 07.504390	08 01 30.65	+18 34 56.1	18.71r		I41
70P	2021 09 07.506819	08 01 30.98	+18 34 55.6	18.79r		I41
70P	2021 09 07.508740	08 01 31.27	+18 34 54.8	18.72r		I41
70P	2021 09 07.511130	08 01 31.59	+18 34 54.1	18.71r		I41
70P	2021 09 07.513530	08 01 31.92	+18 34 53.4	18.72r		I41
70P	2021 09 07.515931	08 01 32.26	+18 34 52.8	18.80r		I41
70P	2021 09 07.518319	08 01 32.59	+18 34 52.0	18.88r		I41
70P	2021 09 09.485772	08 06 06.74	+18 24 44.0	17.99G		703
70P	2021 09 09.490869	08 06 07.57	+18 24 41.2	17.93G		703
70P	2021 09 09.495978	08 06 08.24	+18 24 40.3	17.82G		703
70P	2021 09 09.501076	08 06 09.00	+18 24 38.0	18.95G		703
70P	2021 09 14.502330	08 17 42.47	+17 57 10.0	18.85r		I41
70P	2021 09 14.504750	08 17 42.81	+17 57 09.2	18.71r		I41
70P	2021 09 14.507181	08 17 43.14	+17 57 08.3	18.74r		I41
70P	2021 09 14.509610	08 17 43.44	+17 57 07.4	18.78r		I41
70P	2021 09 14.512030	08 17 43.83	+17 57 06.6	18.72r		I41
70P	2021 09 15.501459	08 20 00.31	+17 51 23.9	18.74r		I41
70P	2021 09 15.503880	08 20 00.66	+17 51 23.2	18.81r		I41
70P	2021 09 15.506300	08 20 00.97	+17 51 22.4	18.70r		I41
70P	2021 09 15.508730	08 20 01.35	+17 51 21.5	18.78r		I41
70P	2021 09 15.511150	08 20 01.66	+17 51 20.9	18.79r		I41
70P	2021 09 16.487487	08 22 16.17	+17 45 38.5	18.21G		703
70P	2021 09 16.493231	08 22 16.92	+17 45 35.3	18.23G		703
70P	2021 09 16.498974	08 22 17.76	+17 45 33.4	17.90G		703
70P	2021 09 16.504569	08 22 18.52	+17 45 31.5	18.74r		I41
70P	2021 09 16.504716	08 22 18.43	+17 45 32.5	18.09G		703
70P	2021 09 16.507110	08 22 18.86	+17 45 30.5	18.65r		I41
70P	2021 09 16.509640	08 22 19.20	+17 45 29.8	18.83r		I41
70P	2021 09 16.512181	08 22 19.56	+17 45 28.7	18.86r		I41
70P	2021 09 16.514720	08 22 19.94	+17 45 27.5	18.83r		I41

74P/Smirnova-Chernykh

74P	2021 08 07.68101	21 50 55.83	−20 45 48.0	19.0	R	D29
74P	2021 08 07.69515	21 50 55.30	−20 45 51.0	18.4	R	D29
74P	2021 08 07.70929	21 50 54.82	−20 45 53.7	18.7	R	D29
74P	2021 08 31.313086	21 37 27.260	−21 52 35.39	20.28w		F51
74P	2021 08 31.339791	21 37 26.377	−21 52 38.77	20.27w		F51
74P	2021 08 31.352778	21 37 25.952	−21 52 40.52	20.37w		F51
74P	2021 09 07.342744	21 33 51.133	−22 05 58.63	20.41w		F51
74P	2021 09 07.354285	21 33 50.790	−22 05 59.92	20.48w		F51
74P	2021 09 07.365896	21 33 50.448	−22 06 00.95	19.97w		F51
74P	2021 09 07.377442	21 33 50.086	−22 06 02.12	20.04w		F51

81P/Wild

81P	2021 08 08.591630	03 44 17.618	+16 32 03.91	22.22w		F51
81P	2021 08 08.602464	03 44 18.023	+16 32 04.73	22.21w		F51
81P	2021 08 08.607877	03 44 18.222	+16 32 05.09	22.00w		F51
81P	2021 09 05.54594	03 57 43.231	+16 50 34.75	21.2	w	F52
81P	2021 09 05.55998	03 57 43.464	+16 50 34.88	21.2	w	F52
81P	2021 09 05.57400	03 57 43.668	+16 50 34.78	21.2	w	F52
81P	2021 09 05.58802	03 57 43.907	+16 50 34.89	21.4	w	F52
81P	2021 09 11.49986	03 59 09.453	+16 49 07.65	21.2	w	F52
81P	2021 09 11.51277	03 59 09.598	+16 49 07.43	21.4	w	F52
81P	2021 09 11.52669	03 59 09.736	+16 49 07.14	21.3	w	F52
81P	2021 09 11.53960	03 59 09.883	+16 49 06.86	21.3	w	F52

88P/Howell

88P	2021 08 10.09523	04 49 03.08	+22 25 36.0	18.4	T	K 215
88P	2021 08 10.09716	04 49 03.16	+22 25 34.6	18.3	T	K 215
88P	2021 08 10.09910	04 49 03.31	+22 25 34.3	18.4	T	K 215
88P	2021 08 19.605642	04 57 37.56	+22 45 20.9	18.25o		T08
88P	2021 08 19.612188	04 57 37.75	+22 45 22.2	19.48o		T08
88P	2021 08 19.625922	04 57 38.62	+22 45 23.4	19.09o		T08
88P	2021 08 19.627765	04 57 38.70	+22 45 24.3	18.83o		T08
88P	2021 09 08.601528	05 11 02.28	+23 17 03.0	17.95o		T08
88P	2021 09 08.609886	05 11 02.53	+23 17 03.8	19.02o		T08
88P	2021 09 08.619732	05 11 02.92	+23 17 04.4	19.05o		T08
88P	2021 09 08.625749	05 11 03.00	+23 17 05.5	19.04o		T08

91P/Russell

91P	2021 06 05.63076	20 41 37.38	−04 18 18.9			01Q62
91P	2021 06 05.63526	20 41 37.35	−04 18 17.5			01Q62
91P	2021 06 05.63977	20 41 37.35	−04 18 15.6	20.2	T	01Q62
91P	2021 08 17.84265	20 01 25.16	−02 08 22.1	17.1	N	A03
91P	2021 08 17.84650	20 01 25.20	−02 08 22.0	17.4	N	A03
91P	2021 08 17.85028	20 01 25.16	−02 08 21.7	17.3	N	A03
91P	2021 08 17.85404	20 01 25.24	−02 08 21.7	17.6	N	A03
91P	2021 08 17.85780	20 01 25.16	−02 08 21.6	17.4	N	A03
91P	2021 08 19.46380	20 00 37.88	−02 13 07.9	19.0	T	K E94
91P	2021 08 19.48401	20 00 37.33	−02 13 13.0	18.9	T	K E94
91P	2021 08 19.49412	20 00 36.87	−02 13 16.4	18.8	T	K E94
91P	2021 08 30.297296	19 56 32.781	−02 47 49.37	21.37w		F52
91P	2021 08 30.308981	19 56 32.570	−02 47 51.19	21.47w		F52
91P	2021 08 30.320622	19 56 32.352	−02 47 53.69	21.28w		F52

94P/Russell

94P	2021 09 11.507219	02 55 59.518	+12 00 40.22	21.52w	F51
94P	2021 09 11.518882	02 55 59.431	+12 00 39.74	21.80w	F51
94P	2021 09 11.530494	02 55 59.345	+12 00 39.00	21.43w	F51
94P	2021 09 11.542122	02 55 59.251	+12 00 38.36	21.70w	F51

97P/Metcalf-Brewington

97P	2021 08 07.11643	01 19 59.50	+08 52 16.9	19.7	T	K A77
97P	2021 08 07.12425	01 19 59.72	+08 52 15.9	20.5	T	K A77
97P	2021 08 07.13207	01 19 59.99	+08 52 16.3	19.8	T	K A77
97P	2021 09 01.09024	01 28 06.56	+07 03 00.9	20.8	T	K I81
97P	2021 09 01.09453	01 28 06.58	+07 02 58.9	19.9	T	K I81
97P	2021 09 01.09881	01 28 06.73	+07 02 56.5	19.8	T	K I81
97P	2021 09 05.96161	01 28 17.57	+06 28 03.9	19.6	T	K 215
97P	2021 09 05.96548	01 28 17.56	+06 28 02.0	19.6	T	K 215
97P	2021 09 05.96935	01 28 17.57	+06 28 00.8	19.6	T	K 215
97P	2021 09 10.376037	01 28 02.94	+05 52 40.7	19.48G		G96
97P	2021 09 10.381657	01 28 02.90	+05 52 37.8	19.35G		G96
97P	2021 09 10.387283	01 28 02.87	+05 52 35.0	19.66G		G96
97P	2021 09 10.392910	01 28 02.81	+05 52 32.0	19.44G		G96
97P	2021 09 10.58536	01 28 01.546	+05 50 55.92	20.2	w	F51
97P	2021 09 10.59476	01 28 01.475	+05 50 51.18	20.3	w	F51
97P	2021 09 10.60417	01 28 01.398	+05 50 46.42	20.2	w	F51
97P	2021 09 10.61344	01 28 01.328	+05 50 41.66	20.3	w	F51
97P	2021 09 11.233611	01 27 57.54	+05 45 25.3	19.7	T	KW62
97P	2021 09 11.249097	01 27 57.42	+05 45 16.3	19.7	T	KW62
97P	2021 09 11.265249	01 27 57.27	+05 45 08.1	19.5	T	KW62
97P	2021 09 12.05809	01 27 51.47	+05 38 18.3	19.6	T	K Z10
97P	2021 09 12.06973	01 27 51.29	+05 38 10.8	20.6	T	K Z10
97P	2021 09 13.07895	01 27 42.82	+05 29 18.9	19.7	T	K A77
97P	2021 09 13.09275	01 27 42.67	+05 29 11.4	19.4	T	K A77
97P	2021 09 13.10658	01 27 42.54	+05 29 04.2	19.5	T	K A77
97P	2021 09 14.24942	01 27 31.60	+05 18 55.6	18.8	T	X03
97P	2021 09 14.25945	01 27 31.54	+05 18 50.8	19.3	T	K X03
97P	2021 09 14.26947	01 27 31.37	+05 18 44.8	19.3	T	X03

99P/Kowal

99P	2020 01 26.272080	08 38 51.06	+23 51 19.0	19.74r		I41
99P	2020 01 26.306160	08 38 49.90	+23 51 23.0	19.77r		I41
99P	2020 01 27.264069	08 38 19.25	+23 53 12.0	19.82r		I41
99P	2020 01 27.297480	08 38 18.15	+23 53 15.8	19.74r		I41
99P	2020 01 27.319610	08 38 17.47	+23 53 17.8	20.28g		I41
99P	2020 01 31.223300	08 36 12.21	+24 00 25.7	20.37g		I41
99P	2020 01 31.234640	08 36 11.90	+24 00 26.4	20.31g		I41
99P	2020 02 02.233770	08 35 07.92	+24 03 54.8	20.63g		I41
99P	2020 02 02.263000	08 35 07.01	+24 03 57.5	19.73r		I41
99P	2020 02 02.309490	08 35 05.43	+24 04 02.3	19.76r		I41
99P	2020 02 02.354400	08 35 03.97	+24 04 06.7	19.86r		I41
99P	2020 02 02.374380	08 35 03.31	+24 04 08.8	19.84r		I41
99P	2020 10 19.521000	10 39 55.96	+12 03 36.1	19.81r		I41
99P	2020 10 19.525720	10 39 56.15	+12 03 35.1	19.72r		I41
99P	2020 10 19.530440	10 39 56.33	+12 03 34.0	19.71r		I41
99P	2020 10 19.535170	10 39 56.55	+12 03 32.7	20.02r		I41

101P/Chernykh

101P	2020 08 24.494580	07 33 46.68	+20 29 39.9	18.62r	I41
101P	2020 08 24.499541	07 33 47.15	+20 29 39.4	18.67r	I41
101P	2020 08 24.504490	07 33 47.58	+20 29 38.1	18.67r	I41
101P	2020 08 24.509440	07 33 48.03	+20 29 37.1	18.65r	I41
101P	2020 09 03.500870	07 48 10.81	+20 01 40.2	18.71r	I41
101P	2020 09 03.505590	07 48 11.20	+20 01 39.4	18.74r	I41
101P	2020 09 03.510310	07 48 11.62	+20 01 38.7	18.80r	I41
101P	2020 09 03.515020	07 48 11.98	+20 01 37.7	18.84r	I41
101P	2020 09 03.519750	07 48 12.39	+20 01 36.8	18.62r	I41
101P	2020 09 15.506560	08 04 06.28	+19 25 50.3	18.85r	I41
101P	2020 09 15.511280	08 04 06.62	+19 25 49.2	18.80r	I41
101P	2020 09 15.516020	08 04 06.96	+19 25 48.6	18.79r	I41
101P	2020 09 15.520740	08 04 07.34	+19 25 47.8	18.83r	I41

102P/Shoemaker

102P	2021 09 17.15256	07 00 07.56	+47 37 17.7	20.4	T	K A77
102P	2021 09 17.15256	07 00 07.56	+47 37 17.7	20.4	V	K A77
102P	2021 09 17.16009	07 00 08.25	+47 37 20.1	21.0	T	K A77
102P	2021 09 17.16009	07 00 08.25	+47 37 20.1	21.0	V	K A77
102P	2021 09 17.16761	07 00 08.88	+47 37 22.6	20.9	T	K A77
102P	2021 09 17.16761	07 00 08.88	+47 37 22.6	20.9	V	K A77
102P	2021 09 18.10111	07 01 39.23	+47 40 51.1	20.7	V	K A77
102P	2021 09 18.12632	07 01 41.70	+47 40 56.8	21.8	V	K A77
102P	2021 09 18.13052	07 01 42.14	+47 40 57.2	21.1	V	K A77

104P/Kowal

104P	2017 04 19.35223	14 06 01.03	−18 19 24.7	19.6	V	G96
104P	2017 04 19.35758	14 06 00.66	−18 19 22.2	19.5	V	G96
104P	2017 04 19.36186	14 06 00.50	−18 19 21.3	20.0	V	G96
104P	2017 04 19.36790	14 06 00.10	−18 19 18.7	19.5	V	G96
104P	2017 04 30.28449	13 56 35.30	−17 12 12.5	20.2	V	G96
104P	2017 04 30.28873	13 56 35.16	−17 12 10.9	20.1	V	G96
104P	2017 04 30.29722	13 56 34.66	−17 12 07.8	19.6	V	G96
104P	2021 08 11.42825	22 43 19.125	+01 17 04.56	21.1	w	F51
104P	2021 08 11.44145	22 43 18.554	+01 17 03.27	21.1	w	F51
104P	2021 08 11.45465	22 43 18.005	+01 17 01.63	21.5	w	F51
104P	2021 08 11.46790	22 43 17.448	+01 17 00.14	21.0	w	F51
104P	2021 08 11.988860	22 42 57.064	+01 15 56.65	20.1	G	02 J04
104P	2021 08 11.994366	22 42 56.831	+01 15 55.94	20.3	G	02 J04
104P	2021 08 11.999868	22 42 56.602	+01 15 55.46	20.5	G	02 J04
104P	2021 08 12.482233	22 42 36.811	+01 14 54.98	20.76	G	28 568
104P	2021 08 12.483442	22 42 36.757	+01 14 54.82	20.67	G	28 568
104P	2021 08 12.484653	22 42 36.705	+01 14 54.66	20.73	G	28 568
104P	2021 08 12.85437	22 42 21.83	+01 14 10.9			01 L81
104P	2021 08 12.86929	22 42 21.15	+01 14 08.7	21	T	01 L81
104P	2021 08 13.02352	22 42 14.52	+01 13 39.2	20.1	T	K 970
104P	2021 08 13.03185	22 42 13.99	+01 13 36.9	20.1	T	K 970
104P	2021 08 15.68392	22 40 16.11	+01 06 39.4			01 Q62
104P	2021 08 15.68734	22 40 15.95	+01 06 38.7			01 Q62
104P	2021 08 15.69077	22 40 15.79	+01 06 38.1	20.0	T	01 Q62
104P	2021 08 18.04016	22 38 21.02	+00 58 33.0	19.8	T	K Z10
104P	2021 08 18.04646	22 38 20.71	+00 58 31.4	20.3	T	K Z10
104P	2021 08 26.10687	22 30 35.50	+00 19 36.0	18.6	T	K A77
104P	2021 08 26.11728	22 30 34.82	+00 19 32.5	18.7	T	K A77
104P	2021 08 26.12828	22 30 34.16	+00 19 28.0	18.7	T	K A77
104P	2021 08 27.24031	22 29 22.27	+00 12 49.2	19.5	T	K X03
104P	2021 08 27.24799	22 29 21.73	+00 12 46.5	19.6	T	K X03
104P	2021 08 27.25567	22 29 21.19	+00 12 43.6	19.3	T	K X03
104P	2021 08 28.59901	22 27 52.15	+00 03 51.5	18.6	T	K Q11
104P	2021 08 28.60467	22 27 51.76	+00 03 49.4			K Q11
104P	2021 08 28.61000	22 27 51.38	+00 03 47.5			K Q11
104P	2021 08 30.62712	22 25 32.98	−00 10 12.9			K Q11
104P	2021 08 30.63278	22 25 32.56	−00 10 15.4			K Q11
104P	2021 08 30.63881	22 25 32.11	−00 10 17.9	18.4	T	K Q11
104P	2021 08 31.61835	22 24 23.49	−00 17 30.3	18.4	R	D29
104P	2021 08 31.63250	22 24 22.45	−00 17 36.4	19.0	R	D29
104P	2021 08 31.64664	22 24 21.37	−00 17 42.8	18.3	R	D29
104P	2021 09 01.93816	22 22 49.01	−00 27 37.9	19.2	T	K 215
104P	2021 09 01.94074	22 22 48.79	−00 27 39.4	19.1	T	K 215
104P	2021 09 01.94332	22 22 48.59	−00 27 40.9	19.1	T	K 215
104P	2021 09 02.92799	22 21 37.09	−00 35 31.7	18.9	T	K77
104P	2021 09 02.93655	22 21 36.59	−00 35 34.7	19.1	T	K77
104P	2021 09 03.282080	22 21 11.10	−00 38 21.3			H 703
104P	2021 09 03.287336	22 21 10.80	−00 38 24.1	19.11	G	H 703
104P	2021 09 03.297839	22 21 10.04	−00 38 29.8	19.28	G	H 703
104P	2021 09 05.381567	22 18 35.80	−00 56 01.6	19.49c		T05
104P	2021 09 05.383403	22 18 35.75	−00 56 03.1	19.58c		T05
104P	2021 09 05.386191	22 18 35.58	−00 56 02.6	19.64c		T05
104P	2021 09 05.391232	22 18 35.11	−00 56 06.5	19.63c		T05
104P	2021 09 05.92823	22 17 54.85	−01 00 52.5	20.2	T	K C47
104P	2021 09 05.94255	22 17 53.69	−01 00 59.9	18.4	T	K C47
104P	2021 09 07.210847	22 16 18.43	−01 12 18.3	19.16	G	703
104P	2021 09 07.216563	22 16 18.06	−01 12 21.2	18.88	G	703
104P	2021 09 07.222285	22 16 17.45	−01 12 26.3	18.41	G	703
104P	2021 09 07.228002	22 16 17.13	−01 12 29.4	19.25	G	703
104P	2021 09 07.446944	22 16 00.15	−01 14 26.6	19.48o		T08
104P	2021 09 07.449813	22 15 59.94	−01 14 27.8	18.66o		T08
104P	2021 09 07.456087	22 15 59.45	−01 14 32.0	19.42o		T08
104P	2021 09 07.491210	22 15 56.69	−01 14 51.1	19.36o		T08
104P	2021 09 08.05383	22 15 14.18	−01 20 07.4	18.7	T	K I81
104P	2021 09 08.05594	22 15 14.03	−01 20 08.8	18.8	T	K I81
104P	2021 09 08.05804	22 15 13.88	−01 20 10.1	19.2	T	K I81
104P	2021 09 08.365487	22 14 50.824	−01 22 56.46	20.30w		F51
104P	2021 09 08.377034	22 14 49.904	−01 23 02.93	20.43w		F51
104P	2021 09 08.404266	22 14 47.727	−01 23 18.23	20.26w		F51
104P	2021 09 09.15001	22 13 50.59	−01 30 21.1	19.0	T	29 G40
104P	2021 09 09.15799	22 13 49.97	−01 30 25.5	19.6	T	29 G40
104P	2021 09 09.57820	22 13 18.45	−01 34 27.3			K Q11
104P	2021 09 09.58492	22 13 17.92	−01 34 31.3			K Q11
104P	2021 09 09.59155	22 13 17.38	−01 34 35.0	18.2	T	K Q11
104P	2021 09 10.229297	22 12 28.96	−01 40 44.3	18.91	G	G96
104P	2021 09 10.234955	22 12 28.52	−01 40 47.5	18.96	G	G96
104P	2021 09 10.240624	22 12 28.05	−01 40 50.7	19.15	G	G96
104P	2021 09 10.246291	22 12 27.60	−01 40 54.2	19.08	G	G96
104P	2021 09 11.170284	22 11 17.45	−01 49 57.5	19.01	G	G96
104P	2021 09 11.175569	22 11 17.05	−01 50 00.7	19.22	G	G96
104P	2021 09 11.180837	22 11 16.61	−01 50 03.4	18.95	G	G96
104P	2021 09 11.186106	22 11 16.22	−01 50 06.5	19.03	G	G96
104P	2021 09 11.193648	22 11 15.61	−01 50 11.0	19.03	G	703
104P	2021 09 11.198934	22 11 15.13	−01 50 14.7	18.74	G	703
104P	2021 09 11.204225	22 11 14.67	−01 50 17.9	19.22	G	703
104P	2021 09 11.209510	22 11 14.38	−01 50 20.2	18.97	G	703
104P	2021 09 11.58309	22 10 45.91	−01 54 03.0	19.3	R	D29
104P	2021 09 11.59723	22 10 44.72	−01 54 11.5	17.9	R	D29
104P	2021 09 11.61137	22 10 43.57	−01 54 20.0	18.0	R	D29
104P	2021 09 13.329080	22 08 33.373	−02 11 38.80	19.91w		F52
104P	2021 09 13.329716	22 08 33.322	−02 11 39.21	19.85w		F52
104P	2021 09 13.340601	22 08 32.461	−02 11 45.97	19.87w		F52
104P	2021 09 13.341237	22 08 32.391	−02 11 46.25	19.90w		F52
104P	2021 09 13.352116	22 08 31.541	−02 11 53.02	19.81w		F52
104P	2021 09 13.352752	22 08 31.492	−02 11 53.28	19.87w		F52
104P	2021 09 13.363650	22 08 30.625	−02 12 00.01	19.82w		F52
104P	2021 09 13.364287	22 08 30.566	−02 12 00.54	19.83w		F52
104P	2021 09 13.423397	22 08 25.88	−02 12 36.6	19.18c		T05
104P	2021 09 13.427080	22 08 25.55	−02 12 39.1	19.44c		T05
104P	2021 09 13.432629	22 08 25.13	−02 12 42.0	19.25c		T05
104P	2021 09 13.462917	22 08 22.69	−02 13 00.4	19.60c		T05
104P	2021 09 14.212626	22 07 26.61	−02 20 46.4	18.44	G	703
104P	2021 09 14.217924	22 07 26.21	−02 20 50.1	18.60	G	703
104P	2021 09 14.223220	22 07 25.79	−02 20 53.8	18.50	G	703
104P	2021 09 14.228524	22 07 25.35	−02 20 56.4	19.19	G	703

104P	2021 09 15.83380	22 05 25.56	−02 37 49.2	20.0 T		B96
104P	2021 09 15.83874	22 05 25.31	−02 37 51.1	18.0 T		B96
104P	2021 09 15.84367	22 05 24.64	−02 37 58.9	18.4 T		B96

106P/Schuster

106P	2021 08 08.16795	04 46 33.59	+18 20 50.7	16.7 T		29G40
106P	2021 08 08.17186	04 46 34.25	+18 20 54.4	16.4 T		29G40
106P	2021 08 08.18730	04 46 36.93	+18 21 09.3	16.1 T		29G40
106P	2021 08 08.19207	04 46 37.76	+18 21 14.0	16.1 T		29G40
106P	2021 08 10.07122	04 52 03.57	+18 51 19.4	16.4 T	K	215
106P	2021 08 10.07251	04 52 03.79	+18 51 20.7	16.3 T	K	215
106P	2021 08 10.07380	04 52 04.00	+18 51 21.9	16.3 T	K	215
106P	2021 08 11.12668	04 55 06.94	+19 08 05.4	16.0 T		A77
106P	2021 08 11.13088	04 55 07.68	+19 08 09.3	16.0 T		A77
106P	2021 08 11.13314	04 55 08.09	+19 08 11.6	16.2 T		A77
106P	2021 08 12.968415	05 00 27.05	+19 37 01.4			C53
Geocentric position (km)	+ 2135.1994	+ 5592.4011	− 3943.2263			
106P	2021 08 12.971889	05 00 27.69	+19 37 02.6			C53
Geocentric position (km)	+ 2821.5476	+ 6292.8756	− 1942.9335			
106P	2021 08 12.975363	05 00 28.30	+19 37 04.1			C53
Geocentric position (km)	+ 3234.4599	+ 6383.5700	+ 246.0233			
106P	2021 08 12.978836	05 00 29.05	+19 37 07.7			C53
Geocentric position (km)	+ 3333.2130	+ 5854.2934	+ 2410.9540			
106P	2021 08 13.875336	05 03 05.00	+19 51 07.9			C53
Geocentric position (km)	+ 2094.8675	+ 5683.2508	− 3832.4186			
106P	2021 08 13.879968	05 03 05.86	+19 51 09.2			C53
Geocentric position (km)	+ 2919.8054	+ 6448.7182	− 1092.9442			
106P	2021 08 13.884600	05 03 06.65	+19 51 12.7			C53
Geocentric position (km)	+ 3244.3113	+ 6109.0217	+ 1834.0483			
106P	2021 08 13.889231	05 03 07.48	+19 51 18.0			C53
Geocentric position (km)	+ 3011.4483	+ 4719.8547	+ 4444.9904			
106P	2021 08 13.893863	05 03 08.28	+19 51 21.1			C53
Geocentric position (km)	+ 2260.6817	+ 2519.0069	+ 6289.4987			
106P	2021 08 15.351228	05 07 22.50	+20 13 47.3			C53
Geocentric position (km)	+ 3072.4182	+ 5723.6941	+ 2992.9532			
106P	2021 08 15.357017	05 07 23.49	+20 13 52.7			C53
Geocentric position (km)	+ 2476.8329	+ 3379.7936	+ 5785.8491			
106P	2021 08 15.362807	05 07 24.39	+20 13 56.2			C53
Geocentric position (km)	+ 1220.8635	+ 134.8359	+ 7032.2434			
106P	2021 08 15.420950	05 07 34.65	+20 14 52.2			C53
Geocentric position (km)	+ 3066.4679	+ 5734.2855	+ 2978.9755			
106P	2021 08 15.426739	05 07 35.77	+20 14 56.9			C53
Geocentric position (km)	+ 2476.8840	+ 3395.0948	+ 5777.0095			
106P	2021 08 15.432529	05 07 36.64	+20 14 59.7			C53
Geocentric position (km)	+ 1226.9324	+ 150.8187	+ 7031.0077			
106P	2021 08 17.14098	05 12 35.51	+20 41 04.9	17.0 T	K	A77
106P	2021 08 17.14423	05 12 36.13	+20 41 09.6	17.3 T	K	A77
106P	2021 08 17.14706	05 12 36.63	+20 41 11.5	16.4 T	K	A77
106P	2021 08 19.46082	05 19 21.07	+21 15 49.8	16.4 R		U55
106P	2021 08 19.47049	05 19 22.88	+21 15 58.9	16.6 R		U55
106P	2021 08 19.48182	05 19 24.92	+21 16 07.8	16.2 R		U55
106P	2021 08 19.593459	05 19 44.62	+21 17 50.1	16.62o		T08
106P	2021 08 19.598074	05 19 45.43	+21 17 54.1	16.67o		T08
106P	2021 08 19.607958	05 19 47.09	+21 18 03.0	15.73o		T08
106P	2021 08 21.18616	05 24 23.58	+21 41 16.3	16.2 T		02G40
106P	2021 08 21.20041	05 24 26.04	+21 41 28.8	16.1 T		02G40
106P	2021 08 21.607454	05 25 37.37	+21 47 26.4	15.83o		T05
106P	2021 08 21.614322	05 25 38.55	+21 47 32.5	15.95o		T05
106P	2021 08 21.628874	05 25 41.06	+21 47 45.4	15.67o		T05
106P	2021 08 21.636342	05 25 42.39	+21 47 52.0	15.76o		T05
106P	2021 08 25.75633	05 37 44.89	+22 46 50.5	15.2 T		349
106P	2021 08 25.76439	05 37 46.30	+22 46 57.4			349
106P	2021 08 25.77230	05 37 47.69	+22 47 04.2			349
106P	2021 08 27.583485	05 43 05.48	+23 12 22.4	16.66o		T08
106P	2021 08 27.586714	05 43 06.05	+23 12 25.1	16.74o		T08
106P	2021 08 27.592583	05 43 07.01	+23 12 29.9	15.77o		T08
106P	2021 08 27.612826	05 43 10.50	+23 12 47.2	15.71o		T08
106P	2021 08 27.72647	05 43 30.59	+23 14 19.2	15.9 T		Q11
106P	2021 08 27.73284	05 43 31.69	+23 14 24.8			Q11
106P	2021 08 27.73850	05 43 32.68	+23 14 29.5			Q11
106P	2021 08 28.45816	05 45 38.59	+23 24 23.8	16.5 R		U55
106P	2021 08 28.46789	05 45 40.24	+23 24 30.8	16.6 R		U55
106P	2021 08 28.47771	05 45 42.08	+23 24 39.3	16.6 R		U55
106P	2021 08 29.587477	05 48 56.83	+23 39 52.0	15.89o		T05
106P	2021 08 29.596223	05 48 58.39	+23 39 59.3	16.63o		T05
106P	2021 08 29.614570	05 49 01.58	+23 40 14.5	16.85o		T05
106P	2021 09 05.13194	06 08 01.48	+25 06 11.8	16.4 T		A77
106P	2021 09 05.13520	06 08 02.05	+25 06 14.6	16.2 T		A77
106P	2021 09 05.13844	06 08 02.60	+25 06 16.6	16.5 T		A77
106P	2021 09 07.10642	06 13 44.95	+25 31 11.2	15.9 T	K	I81
106P	2021 09 07.10854	06 13 45.45	+25 31 13.8	16.2 T	K	I81
106P	2021 09 07.11066	06 13 45.85	+25 31 15.5	16.3 T	K	I81
106P	2021 09 08.11747	06 16 40.75	+25 43 51.1	16.3 T	K	I81
106P	2021 09 08.11957	06 16 41.12	+25 43 52.7	16.3 T	K	I81
106P	2021 09 08.12168	06 16 41.50	+25 43 54.2	16.4 T	K	I81
106P	2021 09 10.017350	06 22 09.96	+26 07 18.2	15.9 T		L60
106P	2021 09 10.019340	06 22 10.32	+26 07 19.7			L60
106P	2021 09 10.020903	06 22 10.59	+26 07 20.9			L60
106P	2021 09 10.022465	06 22 10.86	+26 07 22.0			L60
106P	2021 09 10.024016	06 22 11.12	+26 07 23.2			L60
106P	2021 09 10.600459	06 23 50.75	+26 14 28.1	16.41c		T05
106P	2021 09 10.603679	06 23 51.31	+26 14 30.3	16.76c		T05
106P	2021 09 10.621835	06 23 54.37	+26 14 43.7	16.30c		T05
106P	2021 09 10.631014	06 23 55.95	+26 14 50.5	16.23c		T05
106P	2021 09 12.572855	06 29 30.83	+26 38 14.7	16.66o		T08
106P	2021 09 12.576083	06 29 31.30	+26 38 16.9	15.74o		T08
106P	2021 09 12.583932	06 29 32.70	+26 38 22.8	16.54o		T08
106P	2021 09 12.596861	06 29 34.80	+26 38 32.3	15.82o		T08
106P	2021 09 12.602395	06 29 35.90	+26 38 36.3	16.67o		T08
106P	2021 09 16.465451	06 40 37.15	+27 23 56.2	16.29G		703
106P	2021 09 16.470892	06 40 38.07	+27 23 59.8	16.29G		703
106P	2021 09 16.475744	06 40 38.88	+27 24 03.3	16.27G		703
106P	2021 09 16.480597	06 40 39.67	+27 24 07.1	16.29G		703

108P/Ciffréo

108P	2021 08 05.336771	03 55 14.31	+15 15 29.9	17.2 T		KW62
108P	2021 08 05.341366	03 55 15.01	+15 15 33.3	17.3 T		KW62
108P	2021 08 05.346209	03 55 15.81	+15 15 37.3	17.7 T		KW62
108P	2021 08 08.593793	04 03 32.378	+15 56 15.71	17.94w		F51
108P	2021 08 08.599216	04 03 33.202	+15 56 19.79	17.96w		F51
108P	2021 08 08.604631	04 03 34.024	+15 56 23.85	17.86w		F51
108P	2021 08 08.610046	04 03 34.844	+15 56 27.87	17.90w		F51
108P	2021 08 10.04046	04 07 13.93	+16 14 02.4	17.1 T	K	215
108P	2021 08 10.04175	04 07 14.13	+16 14 03.4	17.1 T	K	215
108P	2021 08 10.04304	04 07 14.28	+16 14 04.0	17.2 T	K	215
108P	2021 08 11.09849	04 09 55.92	+16 26 57.7	17.3 T		A77
108P	2021 08 11.10417	04 09 56.80	+16 27 01.8	15.1 T		A77
108P	2021 08 11.10984	04 09 57.63	+16 27 05.9	17.5 T		A77
108P	2021 08 12.758960	04 14 10.14	+16 47 04.5			C53
Geocentric position (km)	+ 2104.4407	+ 5522.4617	− 4056.6943			
108P	2021 08 12.764518	04 14 10.96	+16 47 05.4			C53
Geocentric position (km)	+ 3103.5944	+ 6408.3654	− 775.6535			
108P	2021 08 12.770075	04 14 11.88	+16 47 08.1			C53
Geocentric position (km)	+ 3341.5930	+ 5722.7673	+ 2695.5439			
108P	2021 08 12.778412	04 14 13.21	+16 47 12.4			C53
Geocentric position (km)	+ 2195.6233	+ 2206.4480	+ 6428.1988			
108P	2021 08 12.821390	04 14 19.85	+16 47 49.6			C53
Geocentric position (km)	+ 59.9995	+ 2380.9734	− 6763.5180			
108P	2021 08 12.826948	04 14 20.62	+16 47 55.6			C53
Geocentric position (km)	+ 1659.4296	+ 4942.5738	− 4920.9421			
108P	2021 08 12.832505	04 14 21.49	+16 47 57.2			C53
Geocentric position (km)	+ 2853.8919	+ 6298.3653	− 1875.5625			
108P	2021 08 12.839453	04 14 22.57	+16 48 01.6			C53
Geocentric position (km)	+ 3344.8566	+ 5819.7465	+ 2476.5704			
108P	2021 08 15.207188	04 20 25.30	+17 16 12.3			C53
Geocentric position (km)	+ 2982.2263	+ 6506.1299	+ 192.2033			
108P	2021 08 15.212746	04 20 26.17	+17 16 17.0			C53
Geocentric position (km)	+ 3038.5929	+ 5403.9309	+ 3563.7058			
108P	2021 08 15.216914	04 20 26.82	+17 16 19.2			C53
Geocentric position (km)	+ 2583.9238	+ 3676.6199	+ 5554.4916			
108P	2021 08 15.279630	04 20 36.47	+17 17 03.5			C53
Geocentric position (km)	+ 3099.1013	+ 6167.1707	+ 1887.5068			
108P	2021 08 15.283799	04 20 37.11	+17 17 07.2			C53
Geocentric position (km)	+ 2934.0597	+ 4937.8529	+ 4256.1228			
108P	2021 08 15.287967	04 20 37.67	+17 17 09.3			C53
Geocentric position (km)	+ 2359.1203	+ 3018.7111	+ 6028.6078			
108P	2021 08 15.293525	04 20 38.48	+17 17 11.0			C53
Geocentric position (km)	+ 1100.5869	− 140.5830	+ 7051.8430			
108P	2021 08 17.610542	04 26 33.39	+17 44 24.2	15.91o		T05
108P	2021 08 17.614662	04 26 34.02	+17 44 27.1	15.83o		T05
108P	2021 08 17.622276	04 26 35.17	+17 44 32.5	15.74o		T05
108P	2021 08 17.631064	04 26 36.48	+17 44 38.5	15.94o		T05
108P	2021 08 19.501221	04 31 22.90	+18 06 11.2	15.72o		T08
108P	2021 08 19.505411	04 31 23.51	+18 06 13.9	16.51o		T08
108P	2021 08 19.528749	04 31 27.05	+18 06 30.3	15.92o		T08
108P	2021 08 19.534302	04 31 27.92	+18 06 34.2	15.77o		T08
108P	2021 08 21.17911	04 35 39.39	+18 25 16.0	15.8 T		02G40
108P	2021 08 21.19326	04 35 41.54	+18 25 25.4	15.8 T		02G40
108P	2021 08 21.603788	04 36 44.19	+18 30 04.2	16.59o		T05
108P	2021 08 21.621979	04 36 46.96	+18 30 16.6	15.73o		T05
108P	2021 08 21.628417	04 36 47.93	+18 30 21.0	15.82o		T05
108P	2021 08 24.11859	04 43 07.99	+18 58 05.5	16.0 T		G06
108P	2021 08 24.12080	04 43 08.32	+18 58 06.2	15.8 T		G06
108P	2021 08 24.12300	04 43 08.68	+18 58 07.1	16.0 T		G06
108P	2021 08 25.606796	04 46 54.77	+19 14 28.6	15.94o		T05
108P	2021 08 25.612302	04 46 55.61	+19 14 32.0	15.74o		T05
108P	2021 08 25.624652	04 46 57.44	+19 14 40.2	15.80o		T05
108P	2021 08 25.633603	04 46 58.84	+19 14 46.3	15.76o		T05
108P	2021 08 26.456613	04 49 04.09	+19 23 42.4	15.55G		703
108P	2021 08 26.462518	04 49 05.04	+19 23 46.7	15.53G		703
108P	2021 08 26.468427	04 49 05.91	+19 23 50.1	15.53G		703
108P	2021 08 26.474331	04 49 06.77	+19 23 54.3	15.51G		703
108P	2021 08 27.451084	04 51 35.31	+19 34 28.0	15.60G		703
108P	2021 08 27.456407	04 51 36.07	+19 34 31.6	15.54G		703
108P	2021 08 27.461729	04 51 36.88	+19 34 34.9	15.56G		703
108P	2021 08 27.557841	04 51 51.46	+19 35 37.1	15.56o		T08
108P	2021 08 27.563100	04 51 52.25	+19 35 40.6	15.63o		T08
108P	2021 08 27.567244	04 51 52.89	+19 35 43.3	15.55o		T08
108P	2021 08 27.581183	04 51 54.97	+19 35 52.3	16.04o		T08
108P	2021 08 27.68502	04 52 10.71	+19 36 56.9	15.2 T		Q11
108P	2021 08 27.69421	04 52 12.11	+19 37 03.3			Q11
108P	2021 08 27.70199	04 52 13.29	+19 37 08.4			Q11
108P	2021 08 29.539424	04 56 51.85	+19 56 45.5	15.64o		T05
108P	2021 08 29.545353	04 56 52.73	+19 56 49.5	15.49o		T05
108P	2021 08 29.554716	04 56 54.13	+19 56 55.3	15.69o		T05
108P	2021 08 29.559766	04 56 54.89	+19 56 58.7	15.62o		T05
108P	2021 09 03.400709	05 09 03.84	+20 47 13.5	15.47G		703
108P	2021 09 03.405228	05 09 04.51	+20 47 16.2	15.43G		703
108P	2021 09 03.413781	05 09 05.83	+20 47 22.1	15.36G		703
108P	2021 09 07.11634	05 18 17.06	+21 24 30.2	15.7 T	K	I81
108P	2021 09 07.11846	05 18 17.37	+21 24 31.3	15.8 T	K	I81
108P	2021 09 07.12058	05 18 17.68	+21 24 32.2	15.6 T	K	I81
108P	2021 09 10.549675	05 26 42.66	+21 58 06.3	15.71c		T05
108P	2021 09 10.552452	05 26 43.08	+21 58 08.3	15.70c		T05
108P	2021 09 10.563612	05 26 44.67	+21 58 14.7	15.88c		T05
108P	2021 09 10.569120	05 26 45.48	+21 58 18.0	15.83c		T05
108P	2021 09 10.97465	05 27 44.75	+22 02 09.8	15.7 T		L79
108P	2021 09 10.97800	05 27 45.11	+22 02 11.9	16.3 T		L79
108P	2021 09 10.98072	05 27 45.53	+22 02 12.7	16.3 T		L79
108P	2021 09 11.119896	05 28 05.91	+22 03 31.4	16.0 T	K	G23
108P	2021 09 11.131898	05 28 07.72	+22 03 37.8	16.0 T	K	G23
108P	2021 09 11.143900	05 28 09.40	+22 03 47.5	15.8 T	K	G23
108P	2021 09 12.22662	05 30 46.81	+22 14 10.7	16.2 N		J22
108P	2021 09 12.23045	05 30 47.35	+22 14 12.9	16.2 N		J22
108P	2021 09 12.23424	05 30 47.94	+22 14 15.6	16.2 N		J22
108P	2021 09 12.578847	05 31 38.25	+22 17 33.5	15.23o		T08
108P	2021 09 12.582545	05 31 38.78	+22 17 35.8	15.14o		T08
108P	2021 09 12.588547	05 31 39.63	+22 17 39.2	15.14o		T08
108P	2021 09 12.600550	05 31 41.34	+22 17 46.1	15.26o		T08
108P	2021 09 17.16096	05 42 36.03	+23 00 27.7	16.1 T		Z10

108P	2021 09 17.16803	05 42 37.00	+23 00 31.6	16.1 T		Z10
108P	2021 09 17.17590	05 42 38.11	+23 00 36.0	16.0 T		Z10
108P	2021 09 18.596794	05 45 59.21	+23 13 42.5	15.43o		T05
108P	2021 09 18.600009	05 45 59.66	+23 13 44.3	15.45o		T05
108P	2021 09 18.608800	05 46 00.86	+23 13 49.3	15.43o		T05
108P	2021 09 18.625758	05 46 03.19	+23 13 58.6	15.48o		T05

110P/Hartley

110P	2020 09 19.269500	23 47 59.07	+16 16 42.1	20.27r		I41
110P	2020 09 19.292590	23 47 57.98	+16 16 38.0	19.98i		I41
110P	2020 09 19.340860	23 47 55.74	+16 16 29.3	20.97g		I41
110P	2020 09 19.407410	23 47 52.64	+16 16 17.1	20.25r		I41
110P	2020 09 20.230620	23 47 15.45	+16 13 45.5	20.03i		I41
110P	2020 09 20.251830	23 47 14.47	+16 13 42.0	19.92i		I41
110P	2020 09 20.340709	23 47 10.31	+16 13 25.1	20.18r		I41
110P	2020 09 20.399490	23 47 07.56	+16 13 14.1	20.12r		I41
110P	2020 09 21.231280	23 46 29.90	+16 10 34.1	19.88i		I41
110P	2020 09 21.258850	23 46 28.62	+16 10 29.0	20.04r		I41
110P	2020 09 21.363360	23 46 23.73	+16 10 08.0	20.68g		I41
110P	2020 09 25.143890	23 43 31.74	+15 56 43.7	19.91r		I41
110P	2020 09 25.172590	23 43 30.37	+15 56 37.3	19.96i		I41
110P	2020 09 25.356920	23 43 21.78	+15 55 55.2	20.01r		I41
110P	2020 09 26.174160	23 42 44.96	+15 52 45.2	19.66i		I41
110P	2020 09 26.191920	23 42 44.11	+15 52 41.0	20.50g		I41
110P	2020 09 26.356791	23 42 36.44	+15 52 01.7	20.99g		I41
110P	2020 09 27.361709	23 41 51.01	+15 48 00.6	20.49g		I41
110P	2020 09 27.383740	23 41 50.02	+15 47 54.7	19.97r		I41
110P	2020 09 28.151530	23 41 15.73	+15 44 44.4	19.71i		I41
110P	2020 09 28.189550	23 41 14.01	+15 44 35.1	19.94r		I41
110P	2020 10 03.339709	23 37 26.97	+15 21 41.6	19.63i		I41
110P	2020 10 03.359350	23 37 26.09	+15 21 36.1	19.83i		I41
110P	2020 10 04.297890	23 36 46.02	+15 17 09.1	20.48r		I41
110P	2020 10 04.319060	23 36 45.09	+15 17 02.8	19.93r		I41
110P	2021 02 10.114791	00 32 54.72	+14 11 38.0	20.50r		I41
110P	2021 02 10.120709	00 32 55.23	+14 11 40.4	20.34r		I41
110P	2021 02 10.123690	00 32 55.43	+14 11 42.0	20.29r		I41
110P	2021 02 11.112740	00 34 17.29	+14 17 42.5	20.41r		I41
110P	2021 02 11.121610	00 34 18.02	+14 17 45.6	20.17r		I41
110P	2021 08 04.491931	05 58 52.04	+28 38 31.9	17.97r		I41
110P	2021 08 04.494350	05 58 52.33	+28 38 31.5	18.04r		I41
110P	2021 08 04.496780	05 58 52.63	+28 38 31.4	18.07r		I41
110P	2021 08 04.499200	05 58 52.94	+28 38 31.2	18.03r		I41
110P	2021 08 04.501630	05 58 53.25	+28 38 31.1	18.13r		I41
110P	2021 08 11.13588	06 12 13.73	+28 26 38.7	17.1 T	K	A77
110P	2021 08 11.13912	06 12 14.17	+28 26 38.3	17.6 T	K	A77
110P	2021 08 11.14236	06 12 14.49	+28 26 37.7	17.0 T	K	A77
110P	2021 08 12.483300	06 14 54.71	+28 23 41.8	17.81r		I41
110P	2021 08 12.485760	06 14 55.01	+28 23 41.4	17.87r		I41
110P	2021 08 12.488240	06 14 55.29	+28 23 41.2	17.89r		I41
110P	2021 08 12.490709	06 14 55.60	+28 23 40.8	17.85r		I41
110P	2021 08 12.493181	06 14 55.88	+28 23 40.6	17.85r		I41
110P	2021 08 13.484560	06 16 53.96	+28 21 23.3	17.87r		I41
110P	2021 08 13.487030	06 16 54.24	+28 21 23.2	17.85r		I41
110P	2021 08 13.489500	06 16 54.53	+28 21 22.8	17.86r		I41
110P	2021 08 13.491980	06 16 54.85	+28 21 22.4	17.81r		I41
110P	2021 08 13.494459	06 16 55.13	+28 21 22.2	17.82r		I41
110P	2021 08 14.498630	06 18 54.33	+28 18 57.1	17.75r		I41
110P	2021 08 14.501150	06 18 54.64	+28 18 57.0	17.78r		I41
110P	2021 08 14.503660	06 18 54.94	+28 18 56.4	17.77r		I41
110P	2021 08 14.506170	06 18 55.24	+28 18 56.0	17.75r		I41
110P	2021 08 26.13936	06 41 29.13	+27 43 56.5	17.3 T	K	A77
110P	2021 08 26.14520	06 41 29.78	+27 43 55.3	16.4 T	K	A77
110P	2021 08 26.15327	06 41 30.71	+27 43 53.0	16.9 T	K	A77
110P	2021 08 27.467675	06 44 00.09	+27 39 09.5	17.26G		703
110P	2021 08 27.473367	06 44 00.77	+27 39 08.2	17.21G		703
110P	2021 08 27.479063	06 44 01.42	+27 39 07.1	16.83G		703
110P	2021 08 27.484752	06 44 02.05	+27 39 06.1	16.94G		703
110P	2021 08 29.75595	06 48 18.48	+27 30 32.8	16.7 T	K	Q11
110P	2021 08 29.76231	06 48 19.20	+27 30 31.4		K	Q11
110P	2021 08 29.76867	06 48 19.89	+27 30 29.6		K	Q11
110P	2021 08 30.495900	06 49 41.40	+27 27 40.0	17.55r		I41
110P	2021 08 30.498410	06 49 41.68	+27 27 39.4	17.57r		I41
110P	2021 08 30.500940	06 49 41.97	+27 27 39.0	17.55r		I41
110P	2021 08 30.503459	06 49 42.25	+27 27 38.3	17.60r		I41
110P	2021 08 30.505980	06 49 42.53	+27 27 37.8	17.57r		I41
110P	2021 09 02.08872	06 54 30.01	+27 17 11.9	16.8 T	K	215
110P	2021 09 02.08975	06 54 30.09	+27 17 11.8	17.2 T	K	215
110P	2021 09 02.09078	06 54 30.07	+27 17 11.1	17.2 T	K	215
110P	2021 09 03.45076	06 57 00.15	+27 11 27.8	17.2 R		U55
110P	2021 09 03.45691	06 57 00.84	+27 11 27.9	17.4 R		U55
110P	2021 09 03.46341	06 57 01.69	+27 11 25.7	17.3 R		U55
110P	2021 09 08.17252	07 05 33.14	+26 50 29.9	16.8 T	K	970
110P	2021 09 08.17666	07 05 33.56	+26 50 29.0	16.7 T	K	970
110P	2021 09 10.593576	07 09 51.15	+26 39 05.3	17.18c		T05
110P	2021 09 10.599088	07 09 51.78	+26 39 03.8	17.38c		T05
110P	2021 09 10.602763	07 09 52.18	+26 39 02.8	17.37c		T05
110P	2021 09 11.481882	07 11 24.94	+26 34 46.7	16.95G		G96
110P	2021 09 11.486605	07 11 25.43	+26 34 45.4	16.85G		G96
110P	2021 09 11.491331	07 11 25.91	+26 34 44.0	16.80G		G96
110P	2021 09 12.602855	07 13 22.51	+26 29 16.9	16.61o		T08
110P	2021 09 12.606078	07 13 22.82	+26 29 16.0	16.46o		T08
110P	2021 09 12.606999	07 13 22.95	+26 29 15.7	16.30o		T08
110P	2021 09 12.625611	07 13 24.84	+26 29 10.4	16.45o		T08
110P	2021 09 12.627498	07 13 25.06	+26 29 09.6	16.32o		T08
110P	2021 09 12.630725	07 13 25.38	+26 29 08.9	16.50o		T08
110P	2021 09 12.636263	07 13 25.90	+26 29 07.5	16.25o		T08
110P	2021 09 12.637185	07 13 26.11	+26 29 06.7	16.82o		T08
110P	2021 09 16.13942	07 19 28.26	+26 11 17.3	17.0 T	K	970
110P	2021 09 16.14356	07 19 28.67	+26 11 16.0	16.7 T	K	970
110P	2021 09 16.463218	07 20 01.24	+26 09 36.8	16.35G		703
110P	2021 09 16.468661	07 20 01.82	+26 09 35.2	16.57G		703
110P	2021 09 16.473510	07 20 02.34	+26 09 33.8	16.52G		703
110P	2021 09 16.478366	07 20 02.89	+26 09 32.2	16.44G		703
110P	2021 09 17.609295	07 21 57.857	+26 03 36.15	17.78w		F52
110P	2021 09 17.613073	07 21 58.244	+26 03 34.91	17.69w		F52
110P	2021 09 17.616852	07 21 58.618	+26 03 33.75	17.82w		F52

110P	2021 09 17.620659	07 21 59.005	+26 03 32.55	17.73w		F52
110P	2021 09 18.17993	07 22 55.50	+26 00 33.5	16.6	T	29G40
110P	2021 09 18.18470	07 22 56.02	+26 00 31.9	16.6	T	29G40
110P	2021 09 18.18689	07 22 56.20	+26 00 30.9	17.3	T	29G40
110P	2021 09 18.19068	07 22 56.61	+26 00 30.1	16.9	T	29G40
110P	2021 09 18.19478	07 22 57.02	+26 00 29.1	16.6	T	29G40

112P/Urata-Niijima

112P	2020 04 23.145250	04 43 46.52	+39 09 08.4	19.23r		I41
112P	2020 04 23.157330	04 43 49.16	+39 09 14.5	18.97r		I41
112P	2020 04 25.147580	04 51 10.96	+39 25 07.2	18.95r		I41
112P	2020 04 25.155350	04 51 12.67	+39 25 10.7	18.95r		I41

113P/Spitaler

113P	2021 08 15.44698	22 52 19.262	−02 58 42.91	20.4	w	F51
113P	2021 08 15.45869	22 52 18.794	−02 58 44.08	20.4	w	F51
113P	2021 08 15.47050	22 52 18.331	−02 58 45.21	20.5	w	F51
113P	2021 08 15.48227	22 52 17.869	−02 58 46.34	20.4	w	F51
113P	2021 08 30.38047	22 41 33.728	−03 32 59.19	20.0	w	F51
113P	2021 08 30.39234	22 41 33.148	−03 33 01.24	19.9	w	F51
113P	2021 08 30.40425	22 41 32.556	−03 33 03.33	20.0	w	F51
113P	2021 08 30.41614	22 41 31.981	−03 33 05.38	20.0	w	F51
113P	2021 08 31.43399	22 40 43.716	−03 36 02.98	19.8	w	F51
113P	2021 08 31.44330	22 40 43.253	−03 36 04.65	19.8	w	F51
113P	2021 08 31.45258	22 40 42.794	−03 36 06.26	19.8	w	F51
113P	2021 08 31.46235	22 40 42.315	−03 36 07.99	19.8	w	F51
113P	2021 09 02.259160	22 39 16.69	−03 41 31.0	19.71r		I41
113P	2021 09 02.296150	22 39 14.84	−03 41 37.8	20.39g		I41
113P	2021 09 02.411780	22 39 09.13	−03 41 58.8	19.46i		I41
113P	2021 09 03.294090	22 38 26.99	−03 44 41.1	20.37g		I41
113P	2021 09 03.347860	22 38 24.31	−03 44 50.9	19.60r		I41
113P	2021 09 03.393127	22 38 22.20	−03 44 57.6	18.91o		T08
113P	2021 09 03.394967	22 38 22.19	−03 44 57.4	19.16o		T08
113P	2021 09 03.397728	22 38 22.02	−03 44 59.8	19.57o		T08
113P	2021 09 03.402794	22 38 21.74	−03 45 01.1	19.51o		T08
113P	2021 09 04.255360	22 37 40.82	−03 47 40.1	20.33g		I41
113P	2021 09 04.296700	22 37 38.75	−03 47 47.6	19.69r		I41
113P	2021 09 04.312890	22 37 37.94	−03 47 50.7	19.66r		I41
113P	2021 09 05.293770	22 36 50.73	−03 50 55.7	20.22g		I41
113P	2021 09 05.371931	22 36 46.85	−03 51 10.7	19.57r		I41
113P	2021 09 06.276170	22 36 03.46	−03 54 03.2	19.68r		I41
113P	2021 09 06.337160	22 36 00.45	−03 54 15.0	20.27g		I41
113P	2021 09 07.20427	22 35 18.72	−03 56 56.9	18.5	T	K X03
113P	2021 09 07.20872	22 35 18.51	−03 56 57.7	18.8	T	K X03
113P	2021 09 07.21541	22 35 18.16	−03 56 59.0	18.8	T	K X03
113P	2021 09 08.37093	22 34 22.895	−04 00 47.13	20.1	w	F51
113P	2021 09 08.38248	22 34 22.321	−04 00 49.32	20.0	w	F51
113P	2021 09 08.39407	22 34 21.749	−04 00 51.61	20.0	w	F51
113P	2021 09 08.40972	22 34 20.967	−04 00 54.65	19.9	w	F51
113P	2021 09 10.230730	22 32 54.24	−04 06 52.1	19.44G		G96
113P	2021 09 10.236395	22 32 53.96	−04 06 53.4	19.51G		G96
113P	2021 09 10.242053	22 32 53.68	−04 06 54.6	19.60G		G96
113P	2021 09 10.247723	22 32 53.39	−04 06 55.6	19.88G		G96
113P	2021 09 13.33227	22 30 28.773	−04 17 02.36	19.9	w	F52
113P	2021 09 13.34379	22 30 28.218	−04 17 04.62	19.9	w	F52
113P	2021 09 13.36684	22 30 27.115	−04 17 09.15	19.9	w	F52

114P/Wiseman-Skiff

114P	2019 08 05.453340	01 33 09.22	+33 35 43.0	20.47r		I41
114P	2019 08 05.465819	01 33 10.12	+33 35 53.7	20.88g		I41

116P/Wild

116P	2021 08 24.506090	07 48 52.51	+23 59 35.4	18.72r		I41
116P	2021 08 25.503360	07 50 26.13	+23 56 00.8	19.19r		I41
116P	2021 08 25.505760	07 50 26.35	+23 56 00.4	19.08r		I41
116P	2021 08 25.508150	07 50 26.51	+23 55 59.5	19.01r		I41
116P	2021 08 25.510560	07 50 26.72	+23 55 59.4	19.19r		I41
116P	2021 08 27.505709	07 53 33.71	+23 48 43.0	19.16r		I41
116P	2021 08 27.508069	07 53 33.92	+23 48 42.5	19.17r		I41
116P	2021 08 27.510440	07 53 34.09	+23 48 42.1	19.09r		I41
116P	2021 08 28.505709	07 55 07.17	+23 45 00.2	19.24r		I41
116P	2021 08 28.508130	07 55 07.39	+23 45 00.1	19.24r		I41
116P	2021 08 28.510541	07 55 07.62	+23 44 59.3	19.15r		I41
116P	2021 08 28.512970	07 55 07.86	+23 44 58.6	19.22r		I41
116P	2021 09 06.11163	08 08 24.67	+23 11 21.9	18.6	T	K 215
116P	2021 09 06.11357	08 08 24.85	+23 11 21.3	18.3	T	K 215
116P	2021 09 06.11550	08 08 25.02	+23 11 20.8	18.2	T	K 215
116P	2021 09 06.505250	08 09 00.86	+23 09 46.0	19.09r		I41
116P	2021 09 06.507730	08 09 01.07	+23 09 45.4	19.17r		I41
116P	2021 09 06.510209	08 09 01.30	+23 09 44.9	19.06r		I41
116P	2021 09 06.512690	08 09 01.54	+23 09 44.2	19.13r		I41
116P	2021 09 07.497580	08 10 31.84	+23 05 41.5	19.04r		I41
116P	2021 09 07.500010	08 10 32.09	+23 05 41.0	18.99r		I41
116P	2021 09 07.502431	08 10 32.29	+23 05 40.0	19.13r		I41
116P	2021 09 07.504860	08 10 32.53	+23 05 39.7	19.02r		I41
116P	2021 09 07.507291	08 10 32.72	+23 05 39.1	19.08r		I41
116P	2021 09 09.500860	08 13 34.90	+22 57 21.4	18.97r		I41
116P	2021 09 09.503380	08 13 35.13	+22 57 21.0	19.09r		I41
116P	2021 09 09.505900	08 13 35.37	+22 57 20.4	19.00r		I41
116P	2021 09 09.508440	08 13 35.60	+22 57 19.8	19.05r		I41
116P	2021 09 09.510970	08 13 35.83	+22 57 19.3	19.07r		I41
116P	2021 09 10.499870	08 15 05.87	+22 53 09.1	18.90r		I41
116P	2021 09 10.502410	08 15 06.10	+22 53 08.6	19.11r		I41
116P	2021 09 10.504940	08 15 06.32	+22 53 07.9	19.17r		I41
116P	2021 09 10.507490	08 15 06.55	+22 53 07.2	19.08r		I41
116P	2021 09 10.510020	08 15 06.79	+22 53 06.5	19.03r		I41
116P	2021 09 11.498580	08 16 36.56	+22 48 55.1	19.16r		I41
116P	2021 09 11.501120	08 16 36.81	+22 48 54.5	19.01r		I41
116P	2021 09 11.503660	08 16 37.04	+22 48 53.7	19.03r		I41
116P	2021 09 11.506190	08 16 37.25	+22 48 53.2	19.06r		I41
116P	2021 09 11.508740	08 16 37.50	+22 48 52.5	19.12r		I41
116P	2021 09 12.502520	08 18 07.50	+22 44 37.4	19.00r		I41
116P	2021 09 12.505010	08 18 07.72	+22 44 37.0	19.02r		I41
116P	2021 09 12.507490	08 18 07.98	+22 44 36.2	19.06r		I41
116P	2021 09 12.509970	08 18 08.19	+22 44 35.7	19.03r		I41
116P	2021 09 12.512440	08 18 08.39	+22 44 34.8	19.02r		I41
116P	2021 09 13.502060	08 19 37.82	+22 40 19.2	19.02r		I41
116P	2021 09 13.504480	08 19 38.07	+22 40 18.8	18.94r		I41

116P	2021 09 13.506910	08 19 38.27	+22 40 18.2	18.96r		I41
116P	2021 09 13.509330	08 19 38.50	+22 40 17.7	18.95r		I41
116P	2021 09 13.511750	08 19 38.69	+22 40 16.9	18.98r		I41
116P	2021 09 15.501459	08 22 37.68	+22 31 37.3	18.99r		I41
116P	2021 09 15.503880	08 22 37.93	+22 31 36.6	19.02r		I41
116P	2021 09 15.506300	08 22 38.14	+22 31 35.9	18.99r		I41
116P	2021 09 15.508730	08 22 38.37	+22 31 35.1	18.96r		I41
116P	2021 09 15.511150	08 22 38.57	+22 31 34.6	18.90r		I41

117P/Helin-Roman-Alu

117P	2020 11 16.535420	12 50 04.70	+01 30 36.2	18.31r		I41
117P	2020 11 16.540080	12 50 04.97	+01 30 34.2	18.37r		I41
117P	2020 11 16.544770	12 50 05.24	+01 30 32.5	18.42r		I41
117P	2020 11 16.554120	12 50 05.79	+01 30 29.3	18.41r		I41
117P	2020 11 18.553720	12 52 00.76	+01 19 04.2	18.51r		I41
117P	2020 11 20.540830	12 53 54.10	+01 07 53.5	18.31r		I41
117P	2020 11 20.545530	12 53 54.34	+01 07 52.3	18.49r		I41
117P	2020 11 20.550230	12 53 54.63	+01 07 50.7	18.37r		I41
117P	2020 11 20.554931	12 53 54.90	+01 07 48.9	18.49r		I41
117P	2020 11 20.559640	12 53 55.13	+01 07 47.1	18.41r		I41
117P	2020 11 22.544209	12 55 47.25	+00 56 49.9	18.41r		I41
117P	2020 12 02.549720	13 04 56.44	+00 04 21.7	18.38r		I41
117P	2020 12 02.554420	13 04 56.70	+00 04 20.1	18.41r		I41
117P	2020 12 02.559120	13 04 56.96	+00 04 18.8	18.39r		I41
117P	2020 12 02.563819	13 04 57.20	+00 04 17.5	18.31r		I41
117P	2021 05 14.91836	13 03 54.48	+00 04 14.9		K	204
117P	2021 05 14.94602	13 03 53.76	+00 04 14.5	15.3 T	K	204
117P	2021 08 06.241485	13 25 17.49	−05 48 01.3	16.13c		T08
117P	2021 08 06.244708	13 25 17.59	−05 48 02.6	16.62c		T08
117P	2021 08 06.250233	13 25 17.87	−05 48 04.6	16.56c		T08
117P	2021 08 06.260375	13 25 18.36	−05 48 09.0	16.38c		T08
117P	2021 08 06.261759	13 25 18.48	−05 48 11.6	17.04c		T08
117P	2021 08 11.31337	13 29 40.35	−06 24 17.0	16.9 T	K	E94
117P	2021 08 11.32005	13 29 40.70	−06 24 20.1	16.8 T	K	E94
117P	2021 08 11.32718	13 29 41.09	−06 24 23.2	16.8 T	K	E94
117P	2021 08 11.33449	13 29 41.41	−06 24 25.6	16.8 T	K	E94
117P	2021 08 16.240566	13 34 10.50	−07 00 26.5	16.23o		T05
117P	2021 08 16.243766	13 34 10.68	−07 00 28.0	15.91o		T05
117P	2021 08 16.251093	13 34 11.09	−07 00 31.2	15.89o		T05
117P	2021 08 16.261167	13 34 11.67	−07 00 35.8	16.60o		T05
117P	2021 08 22.235033	13 39 57.77	−07 45 18.2	16.06o		T08
117P	2021 08 22.238256	13 39 57.93	−07 45 19.6	16.11o		T08
117P	2021 08 22.245624	13 39 58.37	−07 45 22.9	16.14o		T08
117P	2021 08 22.256229	13 39 58.98	−07 45 28.0	16.31o		T08
117P	2021 08 25.32406	13 43 04.20	−08 08 42.4	16.7 T	K	E89
117P	2021 08 25.33396	13 43 04.82	−08 08 46.6	16.7 T	K	E89
117P	2021 08 25.34322	13 43 05.40	−08 08 51.3	16.1 T	K	E89
117P	2021 08 25.35443	13 43 06.04	−08 08 56.4	16.8 T	K	E89
117P	2021 09 04.92877	13 54 21.17	−09 30 36.2	16.5 R		Y00
117P	2021 09 04.93618	13 54 21.57	−09 30 38.5	16.2 R		Y00
117P	2021 09 04.94502	13 54 22.14	−09 30 43.3	16.4 R		Y00

118P/Shoemaker-Levy

118P	2021 08 31.36907	22 14 53.770	−13 40 03.83	21.9 w		F51
118P	2021 08 31.38007	22 14 53.262	−13 40 08.24	21.9 w		F51
118P	2021 08 31.39106	22 14 52.737	−13 40 11.88	22.0 w		F51
118P	2021 08 31.40207	22 14 52.242	−13 40 15.72	22.0 w		F51
118P	2021 09 04.39749	22 11 52.229	−14 04 17.01	21.5 w		F51
118P	2021 09 04.41264	22 11 51.528	−14 04 22.02	21.8 w		F51
118P	2021 09 04.44407	22 11 50.088	−14 04 33.37	21.4 w		F51

119P/Parker-Hartley

119P	2021 08 06.454550	23 03 19.090	−14 27 04.56	19.60w		F51
119P	2021 08 06.463731	23 03 18.840	−14 27 07.70	19.66w		F51
119P	2021 08 06.473216	23 03 18.598	−14 27 10.64	19.70w		F51
119P	2021 08 06.482696	23 03 18.339	−14 27 13.77	19.76w		F51
119P	2021 08 06.486644	23 03 18.16	−14 27 15.8	19.10c		T08
119P	2021 08 06.488484	23 03 18.11	−14 27 16.1	19.45c		T08
119P	2021 08 06.491710	23 03 18.01	−14 27 17.1	19.43c		T08
119P	2021 08 06.496781	23 03 17.90	−14 27 17.9	18.71c		T08
119P	2021 08 07.15713	23 03 01.15	−14 30 49.6	19.6 T	23	W88
119P	2021 08 07.30814	23 02 57.00	−14 31 39.5	19.8 T	23	W88
119P	2021 08 07.658945	23 02 47.81	−14 33 38.8	19.0 T		900
119P	2021 08 07.665951	23 02 47.65	−14 33 40.9	18.9 T		900
119P	2021 08 08.479871	23 02 25.76	−14 38 09.3	18.91o		T05
119P	2021 08 08.481700	23 02 25.72	−14 38 10.2	19.13o		T05
119P	2021 08 08.484503	23 02 25.63	−14 38 10.3	19.09o		T05
119P	2021 08 08.503765	23 02 24.99	−14 38 17.6	18.53o		T05
119P	2021 08 11.46384	23 01 00.01	−14 54 51.4	19.0 T	K	E94
119P	2021 08 11.47488	23 00 59.74	−14 54 55.5	18.9 T	K	E94
119P	2021 08 11.48505	23 00 59.38	−14 54 58.4	18.9 T	K	E94
119P	2021 08 11.49478	23 00 59.04	−14 55 02.2	19.0 T	K	E94
119P	2021 08 12.04336	23 00 42.29	−14 58 15.3	18.5 T		A77
119P	2021 08 12.05089	23 00 42.03	−14 58 17.0	18.3 T		A77
119P	2021 08 12.05992	23 00 41.67	−14 58 20.5	18.5 T		A77
119P	2021 08 12.458431	23 00 29.53	−15 00 36.3	19.04o		T05
119P	2021 08 12.461640	23 00 29.37	−15 00 38.7	18.60o		T05
119P	2021 08 12.478697	23 00 28.86	−15 00 44.4	18.55o		T05
119P	2021 08 12.481464	23 00 28.78	−15 00 44.5	19.18o		T05
119P	2021 08 15.391707	22 58 54.63	−15 17 38.0	18.64o		T05
119P	2021 08 15.427564	22 58 53.42	−15 17 51.6	18.86o		T05
119P	2021 08 15.431320	22 58 53.32	−15 17 53.0	18.82o		T05
119P	2021 08 15.454259	22 58 52.43	−15 18 00.5	18.67o		T05
119P	2021 08 15.472205	22 58 51.81	−15 18 07.1	18.80o		T05
119P	2021 08 17.527034	22 57 40.86	−15 30 13.1	19.17c		T08
119P	2021 08 17.562421	22 57 39.56	−15 30 24.6	18.92c		T08
119P	2021 08 17.566564	22 57 39.46	−15 30 26.1	19.07c		T08
119P	2021 08 17.574395	22 57 39.05	−15 30 29.2	19.12c		T08
119P	2021 08 18.64965	22 57 00.82	−15 36 51.2	18.2 T		349
119P	2021 08 18.66791	22 57 00.15	−15 36 58.0			349
119P	2021 08 19.408462	22 56 33.37	−15 41 21.7	18.66o		T05
119P	2021 08 19.410292	22 56 33.25	−15 41 21.6	18.57o		T05
119P	2021 08 19.413047	22 56 33.14	−15 41 23.9	18.59o		T05
119P	2021 08 19.418536	22 56 33.02	−15 41 23.9	18.82o		T05
119P	2021 08 25.476928	22 52 38.96	−16 17 21.4	18.46o		T08

119P	2021 08 25.492192	22 52 38.31	−16 17 27.4	18.52o		T08
119P	2021 08 25.495415	22 52 38.15	−16 17 27.6	18.69o		T08
119P	2021 08 25.502956	22 52 37.88	−16 17 30.9	18.36o		T08
119P	2021 08 26.455799	22 51 59.320	−16 23 07.25	18.87i		F52
119P	2021 08 26.467303	22 51 58.828	−16 23 11.36	18.56i		F52
119P	2021 08 26.478778	22 51 58.344	−16 23 15.41	18.74i		F52
119P	2021 08 27.677298	22 51 09.02	−16 30 16.6	18.4	T	900
119P	2021 08 27.684306	22 51 08.68	−16 30 19.3	18.7	T	900
119P	2021 08 28.469834	22 50 36.12	−16 34 53.2	17.89o		T05
119P	2021 08 28.473057	22 50 36.11	−16 34 55.3	18.62o		T05
119P	2021 08 28.508446	22 50 34.55	−16 35 06.7	18.45o		T05
119P	2021 08 28.536805	22 50 33.30	−16 35 16.6	18.33o		T05
119P	2021 08 29.462748	22 49 54.64	−16 40 38.4	18.04o		T08
119P	2021 08 29.490860	22 49 53.40	−16 40 47.7	18.29o		T08
119P	2021 08 29.507386	22 49 52.72	−16 40 53.9	18.66o		T08
119P	2021 08 29.532161	22 49 51.62	−16 41 02.7	18.43o		T08
119P	2021 08 30.397841	22 49 15.29	−16 46 01.0	18.02o		T08
119P	2021 08 30.432923	22 49 13.73	−16 46 12.8	18.09o		T08
119P	2021 08 30.438109	22 49 13.51	−16 46 15.1	18.25o		T08
119P	2021 08 30.444192	22 49 13.25	−16 46 16.8	18.04o		T08
119P	2021 08 30.94523	22 48 52.12	−16 49 09.7	18.7	T	K Z10
119P	2021 08 30.94982	22 48 51.94	−16 49 11.7	18.1	T	K Z10
119P	2021 08 30.95526	22 48 51.65	−16 49 12.8	18.4	T	K Z10
119P	2021 08 31.32486	22 48 35.70	−16 51 14.3	19.2	T	23W88
119P	2021 08 31.33416	22 48 35.33	−16 51 17.7	18.6	T	23W88
119P	2021 08 31.93998	22 48 09.66	−16 54 48.3	18.1	T	K C10
119P	2021 08 31.95931	22 48 08.81	−16 54 54.9	18.0	T	K C10
119P	2021 08 31.97865	22 48 07.98	−16 55 01.3	18.0	T	K C10
119P	2021 09 03.389902	22 46 24.43	−17 08 25.2	18.41o		T08
119P	2021 09 03.391748	22 46 24.35	−17 08 25.9	18.48o		T08
119P	2021 09 03.396346	22 46 24.15	−17 08 27.6	17.84o		T08
119P	2021 09 03.401413	22 46 23.89	−17 08 29.3	18.04o		T08
119P	2021 09 04.396184	22 45 40.90	−17 13 54.7	18.69c		T05
119P	2021 09 04.400299	22 45 40.76	−17 13 56.2	18.27c		T05
119P	2021 09 04.405831	22 45 40.46	−17 13 57.3	18.52c		T05
119P	2021 09 04.94456	22 45 17.11	−17 16 52.7	18.0	G	K J01
119P	2021 09 04.96291	22 45 16.37	−17 16 57.7	18.2	G	K J01
119P	2021 09 04.98496	22 45 15.36	−17 17 05.6	17.9	G	K J01
119P	2021 09 06.385107	22 44 14.75	−17 24 30.8	17.94o		T08
119P	2021 09 06.386951	22 44 14.69	−17 24 31.5	18.21o		T08
119P	2021 09 06.388333	22 44 14.63	−17 24 32.0	18.38o		T08
119P	2021 09 06.389717	22 44 14.56	−17 24 32.1	18.23o		T08
119P	2021 09 06.390178	22 44 14.57	−17 24 31.9	17.83o		T08
119P	2021 09 06.392942	22 44 14.40	−17 24 33.1	18.15o		T08
119P	2021 09 06.394782	22 44 14.37	−17 24 34.0	18.58o		T08
119P	2021 09 06.398929	22 44 14.16	−17 24 34.2	18.40o		T08
119P	2021 09 07.209107	22 43 39.07	−17 28 49.5	18.16G		703
119P	2021 09 07.214821	22 43 38.85	−17 28 50.5	17.80G		703
119P	2021 09 07.226264	22 43 38.30	−17 28 56.7	18.25G		703
119P	2021 09 07.392782	22 43 31.150	−17 29 45.80	18.65w		F52
119P	2021 09 07.393426	22 43 31.125	−17 29 46.01	18.70w		F52
119P	2021 09 07.404262	22 43 30.642	−17 29 49.32	18.90w		F52
119P	2021 09 07.404911	22 43 30.605	−17 29 49.52	18.75w		F52
119P	2021 09 07.415757	22 43 30.122	−17 29 52.91	18.82w		F52
119P	2021 09 07.416397	22 43 30.087	−17 29 53.14	18.88w		F52
119P	2021 09 07.427288	22 43 29.605	−17 29 56.44	18.98w		F52
119P	2021 09 07.427933	22 43 29.577	−17 29 56.73	18.98w		F52
119P	2021 09 07.94171	22 43 07.42	−17 32 34.8	17.5	T	K B96
119P	2021 09 07.94911	22 43 07.01	−17 32 38.6	17.6	T	K B96
119P	2021 09 08.386074	22 42 48.24	−17 34 50.8	18.64c		T05
119P	2021 09 08.389737	22 42 47.97	−17 34 51.6	18.16c		T05
119P	2021 09 08.395238	22 42 47.77	−17 34 53.4	18.46c		T05
119P	2021 09 08.402122	22 42 47.46	−17 34 55.9	18.36c		T05
119P	2021 09 09.231643	22 42 11.73	−17 39 05.9	18.13G		703
119P	2021 09 09.237118	22 42 11.50	−17 39 08.3	18.22G		703
119P	2021 09 09.242595	22 42 11.25	−17 39 09.7	18.39G		703
119P	2021 09 09.562141	22 41 57.54	−17 40 44.0	18.7	T	900
119P	2021 09 09.569652	22 41 57.15	−17 40 47.0	18.0	T	900
119P	2021 09 10.387005	22 41 22.125	−17 44 47.17	19.07w		F51
119P	2021 09 10.397959	22 41 21.641	−17 44 50.34	19.08w		F51
119P	2021 09 10.408929	22 41 21.156	−17 44 53.49	19.00w		F51
119P	2021 09 11.61623	22 40 29.62	−17 50 41.7	17.4	R	D29
119P	2021 09 11.63037	22 40 28.99	−17 50 45.7	17.3	R	D29
119P	2021 09 11.64451	22 40 28.36	−17 50 49.7	17.4	R	D29
119P	2021 09 13.95791	22 38 50.98	−18 01 27.6	18.4	N	J22
119P	2021 09 13.96171	22 38 50.81	−18 01 28.5	18.4	N	J22
119P	2021 09 13.96554	22 38 50.65	−18 01 29.0	18.4	N	J22
119P	2021 09 15.239945	22 37 57.71	−18 07 04.9	18.12G		G96
119P	2021 09 15.245271	22 37 57.45	−18 07 06.2	18.19G		G96
119P	2021 09 15.250589	22 37 57.24	−18 07 07.6	18.20G		G96
119P	2021 09 15.255923	22 37 57.02	−18 07 08.9	18.25G		G96

132P/Helin-Roman-Alu

132P	2021 07 21.79016	23 55 13.54	+02 35 02.6			01Q62
132P	2021 07 21.79444	23 55 13.79	+02 35 04.0	18.4	T	01Q62
132P	2021 08 06.08976	00 09 36.51	+03 28 33.7	18.0	T	K Z10
132P	2021 08 06.09624	00 09 36.81	+03 28 34.2	17.9	T	K Z10
132P	2021 08 06.10353	00 09 37.16	+03 28 35.3	18.0	T	K Z10
132P	2021 08 06.485256	00 09 55.81	+03 29 23.9	17.85c		T08
132P	2021 08 06.503247	00 09 56.62	+03 29 26.3	17.83c		T08
132P	2021 08 06.506992	00 09 56.80	+03 29 26.6	17.82c		T08
132P	2021 08 06.516765	00 09 57.25	+03 29 27.7	18.19c		T08
132P	2021 08 06.94521	00 10 18.03	+03 30 14.6	16.9	T	A77
132P	2021 08 06.95100	00 10 18.28	+03 30 15.6	17.0	T	A77
132P	2021 08 06.95678	00 10 18.57	+03 30 15.6	16.9	T	A77
132P	2021 08 07.469270	00 10 42.834	+03 31 15.30	18.67w		F51
132P	2021 08 07.480245	00 10 43.328	+03 31 16.49	18.57w		F51
132P	2021 08 07.491178	00 10 43.808	+03 31 17.67	18.71w		F51
132P	2021 08 07.502134	00 10 44.297	+03 31 18.80	18.63w		F51
132P	2021 08 07.80346	00 10 58.21	+03 31 48.5	16.8	R	D29
132P	2021 08 07.81760	00 10 58.82	+03 31 49.9	16.5	R	D29
132P	2021 08 07.83175	00 10 59.45	+03 31 51.4	16.6	R	D29
132P	2021 08 08.515564	00 11 31.41	+03 32 59.9	17.28o		T05
132P	2021 08 08.517391	00 11 31.51	+03 32 59.9	17.26o		T05
132P	2021 08 08.520141	00 11 31.59	+03 33 00.1	17.28o		T05
132P	2021 08 08.525187	00 11 31.82	+03 33 00.6	17.32o		T05

132P	2021 08 10.07089	00 12 41.53	+03 35 05.5	17.6	N		J59	132P	2021 08 28.490875	00 22 40.65	+03 17 05.4	16.25o			T05
132P	2021 08 10.08299	00 12 42.02	+03 35 06.6	17.6	N		J59	132P	2021 08 28.496370	00 22 40.73	+03 17 04.2	16.37o			T05
132P	2021 08 10.08950	00 12 42.27	+03 35 07.3	17.5	N		J59	132P	2021 08 28.59326	00 22 42.91	+03 16 42.7				D95
132P	2021 08 10.495455	00 13 00.19	+03 35 38.5	17.65c			T08	132P	2021 08 28.59756	00 22 43.00	+03 16 41.8				D95
132P	2021 08 10.498217	00 13 00.31	+03 35 38.6	17.87c			T08	132P	2021 08 28.60186	00 22 43.06	+03 16 41.0	16.3	T		D95
132P	2021 08 10.501441	00 13 00.42	+03 35 38.7	17.60c			T08	132P	2021 08 28.68271	00 22 44.48	+03 16 25.4	16.1	T		Q11
132P	2021 08 10.506595	00 13 00.63	+03 35 39.2	18.04c			T08	132P	2021 08 28.69191	00 22 44.64	+03 16 23.6				Q11
132P	2021 08 11.96486	00 14 03.23	+03 36 59.3	17.1	T	K	C23	132P	2021 08 28.69969	00 22 44.77	+03 16 22.1				Q11
132P	2021 08 11.96775	00 14 03.26	+03 36 58.9	17.0	T	K	C23	132P	2021 08 29.540800	00 23 00.942	+03 13 30.12	17.35i			F51
132P	2021 08 11.97063	00 14 03.36	+03 36 58.7	17.3	T	K	C23	132P	2021 08 29.553374	00 23 01.135	+03 13 27.30	17.42i			F51
132P	2021 08 11.97352	00 14 03.49	+03 36 58.8	17.2	T	K	C23	132P	2021 08 29.565919	00 23 01.318	+03 13 24.72	17.29i			F51
132P	2021 08 12.499861	00 14 25.25	+03 37 25.2	17.10o			T05	132P	2021 08 29.578461	00 23 01.517	+03 13 21.89	17.27i			F51
132P	2021 08 12.503567	00 14 25.39	+03 37 25.6	17.25o			T05	132P	2021 08 30.521525	00 23 18.70	+03 09 53.3	16.14o			T08
132P	2021 08 12.509070	00 14 25.59	+03 37 25.6	17.26o			T05	132P	2021 08 30.526741	00 23 18.77	+03 09 52.3	16.18o			T08
132P	2021 08 12.515220	00 14 25.83	+03 37 25.9	17.55o			T05	132P	2021 08 30.529623	00 23 18.81	+03 09 51.5	16.21o			T08
132P	2021 08 12.533888	00 14 26.577	+03 37 26.98	18.51w			F51	132P	2021 08 30.565116	00 23 19.29	+03 09 43.4	16.29o			T08
132P	2021 08 12.545816	00 14 27.033	+03 37 27.36	18.40w			F51	132P	2021 09 01.14681	00 23 45.05	+03 03 16.1	16.1	T	K	I81
132P	2021 08 12.557737	00 14 27.478	+03 37 27.80	18.34w			F51	132P	2021 09 01.14860	00 23 45.07	+03 03 15.7	16.2	T	K	I81
132P	2021 08 12.569731	00 14 27.936	+03 37 28.27	18.32w			F51	132P	2021 09 01.15038	00 23 45.09	+03 03 15.3	16.2	T	K	I81
132P	2021 08 13.97697	00 15 24.95	+03 38 04.5	16.4	T		C23	132P	2021 09 02.31981	00 24 01.79	+02 58 22.1	16.9	T	23	W88
132P	2021 08 13.98274	00 15 25.14	+03 38 05.1	17.1	T		C23	132P	2021 09 02.34525	00 24 02.05	+02 58 15.1	17.3	T	23	W88
132P	2021 08 13.98707	00 15 25.36	+03 38 05.3	17.4	T		C23	132P	2021 09 02.98501	00 24 10.84	+02 55 04.7	16.2	T		G06
132P	2021 08 14.07172	00 15 28.49	+03 38 07.4	17.5	T		A77	132P	2021 09 02.98860	00 24 10.87	+02 55 03.7	16.2	T		G06
132P	2021 08 14.07588	00 15 28.65	+03 38 07.6	17.4	T		A77	132P	2021 09 02.99579	00 24 10.96	+02 55 02.0	16.1	T		G06
132P	2021 08 14.08083	00 15 28.82	+03 38 07.8	17.5	T		A77	132P	2021 09 02.99938	00 24 10.98	+02 55 00.7	16.0	T		G06
132P	2021 08 14.93610	00 16 02.13	+03 38 17.4	17.2	T	A	K77	132P	2021 09 03.461839	00 24 16.65	+02 52 53.4	15.93o			T08
132P	2021 08 14.95727	00 16 02.95	+03 38 17.3	17.0	T		K77	132P	2021 09 03.465081	00 24 16.67	+02 52 52.5	15.91o			T08
132P	2021 08 15.06126	00 16 06.90	+03 38 19.0	17.1	N		J01	132P	2021 09 03.471089	00 24 16.72	+02 52 50.7	15.92o			T08
132P	2021 08 15.07266	00 16 07.28	+03 38 18.6	17.3	N		J01	132P	2021 09 03.477537	00 24 16.77	+02 52 48.9	15.93o			T08
132P	2021 08 15.08182	00 16 07.59	+03 38 19.3	17.3	N		J01	132P	2021 09 03.94757	00 24 22.53	+02 50 28.0	16.2	N		J01
132P	2021 08 16.470743	00 16 59.35	+03 38 12.6	16.95o			T05	132P	2021 09 03.99169	00 24 22.91	+02 50 14.8	16.2	N		J01
132P	2021 08 16.493817	00 17 00.13	+03 38 12.4	17.33o			T05	132P	2021 09 04.01372	00 24 23.11	+02 50 08.2	16.2	N		J01
132P	2021 08 16.497506	00 17 00.25	+03 38 12.4	16.90o			T05	132P	2021 09 04.464865	00 24 27.953	+02 47 56.29	17.24w			F51
132P	2021 08 16.500254	00 17 00.33	+03 38 12.4	16.97o			T05	132P	2021 09 04.476715	00 24 28.035	+02 47 52.46	17.21w			F51
132P	2021 08 17.07529	00 17 20.97	+03 37 57.6	17.4	T	K	Z10	132P	2021 09 04.488532	00 24 28.104	+02 47 48.98	17.17w			F51
132P	2021 08 17.08154	00 17 21.18	+03 37 57.8	17.4	T	K	Z10	132P	2021 09 04.500297	00 24 28.191	+02 47 45.20	17.20w			F51
132P	2021 08 17.08861	00 17 21.39	+03 37 57.4	17.4	T	K	Z10	132P	2021 09 04.958234	00 24 33.12	+02 45 19.6	16.4	T	K	G33
132P	2021 08 18.07034	00 17 55.69	+03 37 25.4	16.4	T		A77	132P	2021 09 04.959490	00 24 33.10	+02 45 19.4	16.6	T	K	G33
132P	2021 08 18.07521	00 17 55.82	+03 37 24.9	16.2	T		A77	132P	2021 09 04.960666	00 24 33.13	+02 45 19.0	16.5	T	K	G33
132P	2021 08 18.08088	00 17 55.98	+03 37 24.7	16.5	T		A77	132P	2021 09 04.961830	00 24 33.11	+02 45 18.4	16.6	T	K	G33
132P	2021 08 18.446332	00 18 08.68	+03 37 12.8	17.30o			T08	132P	2021 09 04.962999	00 24 33.14	+02 45 17.8	16.6	T	K	G33
132P	2021 08 18.460370	00 18 09.10	+03 37 11.9	16.73o			T08	132P	2021 09 04.964169	00 24 33.11	+02 45 17.4	16.6	T	K	G33
132P	2021 08 18.465042	00 18 09.26	+03 37 11.9	17.20o			T08	132P	2021 09 04.98257	00 24 33.39	+02 45 13.0	16.0	N		J59
132P	2021 08 18.471062	00 18 09.44	+03 37 11.7	16.63o			T08	132P	2021 09 04.99314	00 24 33.48	+02 45 09.5	16.0	N		J59
132P	2021 08 22.455052	00 20 13.59	+03 32 14.4	16.90o			T08	132P	2021 09 04.99984	00 24 33.95	+02 45 15.0	17.4	T		Z55
132P	2021 08 22.456893	00 20 13.64	+03 32 14.3	16.60o			T08	132P	2021 09 05.00125	00 24 33.54	+02 45 08.4				Z55
132P	2021 08 22.459663	00 20 13.72	+03 32 13.7	16.48o			T08	132P	2021 09 05.00265	00 24 33.54	+02 45 07.9				Z55
132P	2021 08 22.464727	00 20 13.82	+03 32 13.3	16.55o			T08	132P	2021 09 05.00369	00 24 33.50	+02 45 06.7	16.0	N		J59
132P	2021 08 27.93257	00 22 29.41	+03 18 48.8	16.7	T		C23	132P	2021 09 05.00406	00 24 33.57	+02 45 07.5				Z55
132P	2021 08 27.93690	00 22 29.47	+03 18 48.1	16.8	T		C23	132P	2021 09 05.01164	00 24 33.40	+02 45 03.3	16.2	T	K	A71
132P	2021 08 27.94123	00 22 29.55	+03 18 47.3	16.7	T		C23	132P	2021 09 05.01720	00 24 33.43	+02 45 01.6	16.2	T	K	A71
132P	2021 08 28.482437	00 22 40.52	+03 17 07.1	16.32o			T05	132P	2021 09 05.02461	00 24 33.48	+02 44 59.3	16.2	T	K	A71
132P	2021 08 28.485222	00 22 40.57	+03 17 06.5	16.29o			T05	132P	2021 09 05.454677	00 24 37.78	+02 42 48.1	16.14c			T05

132P	2021 09 05.457430	00 24 37.80	+02 42 47.3	16.12c		T05
132P	2021 09 05.460175	00 24 37.82	+02 42 46.3	16.62c		T05
132P	2021 09 05.473441	00 24 37.88	+02 42 42.1	16.14c		T05
132P	2021 09 05.91475	00 24 42.11	+02 40 15.2	15.7	T	B96
132P	2021 09 05.91968	00 24 42.09	+02 40 13.4	15.7	T	B96
132P	2021 09 05.92461	00 24 42.14	+02 40 11.9	15.6	T	B96
132P	2021 09 05.95847	00 24 42.31	+02 40 01.4	17.0	T	C47
132P	2021 09 05.96778	00 24 42.39	+02 39 58.6	17.1	T	C47
132P	2021 09 05.97853	00 24 42.42	+02 39 54.8	16.9	T	C47
132P	2021 09 05.98927	00 24 42.50	+02 39 51.7	17.1	T	C47
132P	2021 09 06.00001	00 24 42.54	+02 39 48.2	16.3	T	C47
132P	2021 09 06.94282	00 24 50.09	+02 34 33.6	15.8	T	K77
132P	2021 09 06.95341	00 24 50.20	+02 34 30.2	15.7	T	K77
132P	2021 09 07.500983	00 24 53.80	+02 31 26.7	15.51o		T08
132P	2021 09 07.504668	00 24 53.81	+02 31 25.4	15.49o		T08
132P	2021 09 07.539898	00 24 53.90	+02 31 13.1	15.54o		T08
132P	2021 09 07.545533	00 24 53.92	+02 31 11.2	15.52o		T08
132P	2021 09 07.95228	00 24 56.93	+02 28 43.7	15.9	T	C23
132P	2021 09 07.95661	00 24 56.98	+02 28 42.3	16.0	T	C23
132P	2021 09 07.96095	00 24 57.00	+02 28 40.8	16.1	T	C23
132P	2021 09 09.624389	00 25 05.31	+02 18 35.6	16.4	N	900
132P	2021 09 09.627719	00 25 05.31	+02 18 34.3	16.4	N	900
132P	2021 09 09.64888	00 25 05.31	+02 18 25.9			P87
132P	2021 09 09.65617	00 25 05.35	+02 18 23.6	15.2	T	P87
132P	2021 09 09.90612	00 25 06.54	+02 16 47.1	15.9	T	K L39
132P	2021 09 09.91042	00 25 06.53	+02 16 45.7	16.1	T	K L39
132P	2021 09 10.317476	00 25 07.74	+02 14 11.8	15.52G		G96
132P	2021 09 10.323152	00 25 07.73	+02 14 09.6	15.53G		G96
132P	2021 09 10.328822	00 25 07.73	+02 14 07.5	15.57G		G96
132P	2021 09 10.336308	00 25 07.72	+02 14 04.5	15.56G		G96
132P	2021 09 10.87646	00 25 09.45	+02 10 32.1	16.1	T	L79
132P	2021 09 10.87948	00 25 09.48	+02 10 31.0	16.2	T	L79
132P	2021 09 10.88203	00 25 09.53	+02 10 30.3	16.6	T	L79
132P	2021 09 10.947723	00 25 09.53	+02 10 04.9	15.9	T	K G23
132P	2021 09 10.961852	00 25 09.39	+02 09 58.8	15.8	T	K G23
132P	2021 09 10.975980	00 25 09.47	+02 09 52.9	15.8	T	K G23
132P	2021 09 10.99022	00 25 09.68	+02 09 48.3	15.6	N	J59
132P	2021 09 10.99424	00 25 09.69	+02 09 46.4	15.8	N	J01
132P	2021 09 11.00068	00 25 09.68	+02 09 43.7	15.6	N	J59
132P	2021 09 11.00159	00 25 09.69	+02 09 43.7	15.7	N	J01
132P	2021 09 11.00417	00 25 09.68	+02 09 42.6	15.6	N	J59
132P	2021 09 11.01628	00 25 09.69	+02 09 37.9	15.8	N	J01
132P	2021 09 11.03090	00 25 09.60	+02 09 31.5	16.8	T	A77
132P	2021 09 11.03542	00 25 09.56	+02 09 29.9	16.8	T	A77
132P	2021 09 11.04144	00 25 09.56	+02 09 27.8	15.0	T	A77
132P	2021 09 11.08451	00 25 09.43	+02 09 09.2	15.5	T	A98
132P	2021 09 11.08524	00 25 09.43	+02 09 09.2	15.4	T	A98
132P	2021 09 11.08671	00 25 09.43	+02 09 08.2	15.5	T	A98
132P	2021 09 11.08818	00 25 09.51	+02 09 08.1	15.4	T	A98
132P	2021 09 11.08965	00 25 09.43	+02 09 07.1	15.0	T	A98
132P	2021 09 11.09039	00 25 09.41	+02 09 06.5	15.5	T	A98
132P	2021 09 11.09259	00 25 09.46	+02 09 06.2	15.5	T	A98
132P	2021 09 11.89417	00 25 11.56	+02 03 47.1	16.0	T	G20
132P	2021 09 11.90342	00 25 11.55	+02 03 43.3	16.0	T	G20
132P	2021 09 11.91191	00 25 11.54	+02 03 39.9	16.0	T	G20
132P	2021 09 11.94450	00 25 11.60	+02 03 26.5	15.7	N	J01
132P	2021 09 11.956778	00 25 11.39	+02 03 21.3	15.7	T	K G23
132P	2021 09 11.95917	00 25 11.59	+02 03 20.6	15.7	N	J01
132P	2021 09 11.970903	00 25 11.37	+02 03 15.6	15.7	T	K G23
132P	2021 09 11.97384	00 25 11.56	+02 03 14.7	15.7	N	J01
132P	2021 09 11.985028	00 25 11.34	+02 03 09.7	15.7	T	K G23
132P	2021 09 12.03802	00 25 11.44	+02 02 49.4	15.9	T	K Z10
132P	2021 09 12.04346	00 25 11.45	+02 02 47.3	15.9	T	K Z10
132P	2021 09 12.05049	00 25 11.43	+02 02 44.2	15.9	T	K Z10
132P	2021 09 15.91304	00 25 08.59	+01 35 05.6	15.1	T	B96
132P	2021 09 15.91798	00 25 08.56	+01 35 03.8	15.1	T	B96
132P	2021 09 15.92291	00 25 08.55	+01 35 01.2	15.1	T	B96
132P	2021 09 16.02489	00 25 07.95	+01 34 16.0	15.6	T	C23
132P	2021 09 16.02922	00 25 07.94	+01 34 14.0	15.7	T	C23
132P	2021 09 16.03499	00 25 07.90	+01 34 11.4	15.6	T	C23
132P	2021 09 18.926094	00 24 56.41	+01 11 50.2	15.6	T	K G33
132P	2021 09 18.928550	00 24 56.41	+01 11 49.1	15.6	T	K G33
132P	2021 09 18.930830	00 24 56.37	+01 11 48.1	15.6	T	K G33
132P	2021 09 18.932088	00 24 56.36	+01 11 47.4	15.6	T	K G33
132P	2021 09 18.933169	00 24 56.36	+01 11 46.8	15.6	T	K G33
132P	2021 09 18.934339	00 24 56.35	+01 11 46.1	15.6	T	K G33
132P	2021 09 18.935508	00 24 56.34	+01 11 45.8	15.5	T	K G33
132P	2021 09 18.936677	00 24 56.36	+01 11 45.1	15.6	T	K G33

142P/Ge-Wang

142P	2021 08 16.06152	02 36 18.28	+09 32 40.8	18.8	T	K 213
142P	2021 08 16.13017	02 36 24.98	+09 31 41.4	19.1	T	K 213
142P	2021 09 08.24097	02 49 09.38	+08 05 23.4	17.2	T	X03
142P	2021 09 08.24321	02 49 09.41	+08 05 22.6	16.7	T	X03
142P	2021 09 08.24543	02 49 09.42	+08 05 23.3	16.9	T	X03

143P/Kowal-Mrkos

143P	2021 08 18.541649	00 32 45.306	+08 42 24.46	21.40w	F51
143P	2021 08 18.553231	00 32 45.092	+08 42 23.42	21.34w	F51
143P	2021 08 18.564819	00 32 44.889	+08 42 22.47	21.38w	F51
143P	2021 08 18.576385	00 32 44.675	+08 42 21.42	21.50w	F51
143P	2021 08 30.582017	00 28 32.658	+08 20 53.96	21.57w	F51
143P	2021 08 30.593559	00 28 32.380	+08 20 52.44	21.44w	F51
143P	2021 08 30.605115	00 28 32.098	+08 20 51.04	21.45w	F51
143P	2021 08 30.616647	00 28 31.812	+08 20 49.32	21.46w	F51
143P	2021 09 05.386449	00 26 06.466	+08 07 06.22	21.37w	F52
143P	2021 09 05.397351	00 26 06.169	+08 07 04.64	21.16w	F52
143P	2021 09 05.408279	00 26 05.872	+08 07 03.01	21.21w	F52
143P	2021 09 05.419238	00 26 05.579	+08 07 01.25	21.25w	F52
143P	2021 09 09.287378	00 24 20.89	+07 56 42.6	21.40G	G96
143P	2021 09 09.293021	00 24 20.76	+07 56 41.7	21.45G	G96
143P	2021 09 09.299588	00 24 20.57	+07 56 40.1	21.50G	G96
143P	2021 09 09.307207	00 24 20.35	+07 56 39.1	21.13G	G96
143P	2021 09 09.494443	00 24 15.115	+07 56 08.21	21.33w	F52
143P	2021 09 09.506794	00 24 14.768	+07 56 06.12	21.43w	F52
143P	2021 09 09.519175	00 24 14.420	+07 56 04.01	21.43w	F52
143P	2021 09 09.531483	00 24 14.059	+07 56 02.26	21.38w	F52

148P/Anderson-LINEAR

148P	2021 08 11.567502	00 11 36.651	−04 05 42.05	21.78w		F51
148P	2021 08 11.579938	00 11 36.461	−04 05 44.20	21.69w		F51
148P	2021 08 11.592368	00 11 36.261	−04 05 46.59	22.16w		F51
148P	2021 08 11.604817	00 11 36.111	−04 05 48.90	21.68w		F51
148P	2021 09 02.92376	00 01 35.18	−05 44 41.6	20.5 T	K	C10
148P	2021 09 02.94765	00 01 34.24	−05 44 49.8	20.6 T	K	C10
148P	2021 09 02.97153	00 01 33.26	−05 44 57.6	20.5 T	K	C10
148P	2021 09 04.354598	00 00 37.144	−05 52 39.00	20.95w		F51
148P	2021 09 04.365429	00 00 36.694	−05 52 42.34	20.79w		F51
148P	2021 09 04.376306	00 00 36.216	−05 52 46.17	21.00w		F51
148P	2021 09 04.387137	00 00 35.750	−05 52 49.74	20.94w		F51
148P	2021 09 05.422003	23 59 52.318	−05 58 41.08	20.90w		F51
148P	2021 09 05.433875	23 59 51.797	−05 58 45.00	20.80w		F51
148P	2021 09 05.445736	23 59 51.269	−05 58 49.16	20.81w		F51
148P	2021 09 05.457589	23 59 50.754	−05 58 53.11	20.78w		F51
148P	2021 09 05.95922	23 59 29.37	−06 01 45.7	20.5 T	K	L27
148P	2021 09 05.96995	23 59 28.91	−06 01 49.2	20.5 T	K	L27
148P	2021 09 05.98093	23 59 28.42	−06 01 52.9	20.8 T	K	L27
148P	2021 09 09.477354	23 56 52.800	−06 22 09.55	20.72w		F51
148P	2021 09 09.500429	23 56 51.690	−06 22 17.57	20.74w		F51
148P	2021 09 09.511150	23 56 51.179	−06 22 21.42	20.63w		F51
148P	2021 09 09.521863	23 56 50.673	−06 22 25.19	20.58w		F51
148P	2021 09 12.335470	23 54 38.38	−06 39 05.1	20.63G		G96
148P	2021 09 12.340718	23 54 38.12	−06 39 06.9	20.19G		G96
148P	2021 09 12.347224	23 54 37.78	−06 39 09.2	20.27G		G96
148P	2021 09 12.352462	23 54 37.55	−06 39 11.2	20.70G		G96

157P/Tritton

157P	2021 08 10.339097	21 11 08.022	−06 57 29.97	21.89w		F51
157P	2021 08 10.354536	21 11 07.205	−06 57 31.49	21.64w		F51
157P	2021 08 10.370075	21 11 06.372	−06 57 33.11	21.50w		F51
157P	2021 08 10.385626	21 11 05.538	−06 57 34.68	21.68w		F51
157P	2021 08 31.266606	20 53 31.604	−07 42 47.37	21.61w		F51
157P	2021 08 31.278293	20 53 31.066	−07 42 48.93	21.66w		F51
157P	2021 08 31.289993	20 53 30.509	−07 42 50.66	21.72w		F51
157P	2021 08 31.301737	20 53 29.958	−07 42 52.42	21.53w		F51
157P	2021 09 09.281233	20 47 10.009	−08 04 21.04	21.63w		F51
157P	2021 09 09.294618	20 47 09.499	−08 04 22.79	21.60w		F51
157P	2021 09 09.308007	20 47 08.958	−08 04 24.66	21.71w		F51

158P/Kowal-LINEAR

158P	2021 07 18.57107	21 25 31.40	−14 54 26.1	17.8 T		D95
158P	2021 07 18.57954	21 25 31.00	−14 54 27.8			D95
158P	2021 07 18.59017	21 25 30.82	−14 54 28.6			D95
158P	2021 08 06.204387	21 16 29.45	−15 55 58.6	19.1 T		KW62
158P	2021 08 06.208137	21 16 29.27	−15 55 59.2	19.0 T		KW62
158P	2021 08 06.213125	21 16 29.10	−15 56 01.1	19.2 T		KW62
158P	2021 08 07.381198	21 15 52.59	−16 00 00.6	18.57o		T05
158P	2021 08 07.381354	21 15 52.67	−15 59 59.8	19.31c		T08
158P	2021 08 07.384119	21 15 52.48	−16 00 01.0	18.95c		T08
158P	2021 08 07.384414	21 15 52.53	−16 00 00.5	18.87o		T05
158P	2021 08 07.386887	21 15 52.42	−16 00 01.4	19.07c		T08
158P	2021 08 07.387164	21 15 52.49	−16 00 01.9	18.57o		T05
158P	2021 08 07.389648	21 15 52.36	−16 00 02.0	19.27c		T08
158P	2021 08 07.389908	21 15 52.25	−16 00 02.7	18.26o		T05
158P	2021 08 08.381136	21 15 21.37	−16 03 25.8	18.76o		T05
158P	2021 08 08.383887	21 15 21.23	−16 03 26.5	18.48o		T05
158P	2021 08 08.386650	21 15 21.13	−16 03 27.5	18.41o		T05
158P	2021 08 08.389403	21 15 21.11	−16 03 27.2	18.91o		T05
158P	2021 08 09.380830	21 14 50.01	−16 06 51.3	19.07c		T08
158P	2021 08 09.381250	21 14 49.99	−16 06 50.9	18.50o		T05
158P	2021 08 09.383594	21 14 49.98	−16 06 52.5	19.04c		T08
158P	2021 08 09.386367	21 14 49.86	−16 06 52.3	19.39c		T08
158P	2021 08 09.387238	21 14 49.74	−16 06 52.7	18.41o		T05
158P	2021 08 09.389139	21 14 49.82	−16 06 52.9	19.21c		T08
158P	2021 08 09.389985	21 14 49.77	−16 06 53.2	18.92o		T05
158P	2021 08 09.395825	21 14 49.56	−16 06 53.6	19.16o		T05
158P	2021 08 09.398352	21 14 49.44	−16 06 54.5	18.86c		T08
158P	2021 08 09.400196	21 14 49.39	−16 06 54.8	19.21c		T08
158P	2021 08 10.03262	21 14 29.68	−16 09 02.6	18.5 T	K	X03
158P	2021 08 10.04265	21 14 29.37	−16 09 04.6	18.3 T	K	X03
158P	2021 08 10.05156	21 14 29.08	−16 09 06.3	18.1 T	K	X03
158P	2021 08 15.393599	21 11 42.55	−16 27 12.4	18.99o		T05
158P	2021 08 15.395428	21 11 42.39	−16 27 12.5	17.89o		T05
158P	2021 08 15.398171	21 11 42.42	−16 27 12.6	18.78o		T05
158P	2021 08 15.419104	21 11 41.73	−16 27 16.8	18.88o		T05
158P	2021 08 19.50549	21 09 37.01	−16 40 42.0	18.5 T	K	E94
158P	2021 08 19.51480	21 09 36.57	−16 40 43.2	18.6 T	K	E94
158P	2021 08 19.52401	21 09 36.48	−16 40 44.3	18.5 T	K	E94
158P	2021 08 27.53238	21 05 45.72	−17 05 45.2	18.5 T	K	Q11
158P	2021 08 27.54510	21 05 45.37	−17 05 47.7		K	Q11
158P	2021 08 28.57806	21 05 17.30	−17 08 50.5		K	Q11
158P	2021 08 28.58372	21 05 17.14	−17 08 51.5	18.6 T	K	Q11
158P	2021 08 28.58974	21 05 16.97	−17 08 52.5		K	Q11
158P	2021 08 30.408214	21 04 28.72	−17 14 07.5	19.15o		T08
158P	2021 08 30.411916	21 04 28.63	−17 14 07.5	19.07o		T08
158P	2021 08 30.417077	21 04 28.51	−17 14 09.5	19.13o		T08
158P	2021 08 30.429620	21 04 28.10	−17 14 11.8	18.68o		T08
158P	2021 08 31.304623	21 04 05.637	−17 16 39.91	19.93w		F51
158P	2021 08 31.317976	21 04 05.284	−17 16 42.22	20.00w		F51
158P	2021 08 31.331363	21 04 04.928	−17 16 44.25	19.96w		F51
158P	2021 08 31.344330	21 04 04.577	−17 16 46.53	20.04w		F51
158P	2021 09 03.380085	21 02 49.03	−17 25 04.8	18.87o		T08
158P	2021 09 03.414012	21 02 48.23	−17 25 11.0	19.01o		T08
158P	2021 09 03.417237	21 02 48.13	−17 25 11.6	19.05o		T08
158P	2021 09 03.422783	21 02 47.98	−17 25 13.3	18.57o		T08
158P	2021 09 06.85321	21 01 29.00	−17 34 04.9	19.5 T	K	K83
158P	2021 09 06.86497	21 01 28.73	−17 34 06.3	19.6 T	K	K83

160P/LINEAR

160P	2019 07 15.990037	18 45 45.85	−44 21 30.9	18.3 G		C57
Geocentric position (km)	−202591.417	+126138.143	−61699.8390			
160P	2019 07 16.094204	18 45 38.43	−44 21 04.4	18.6 G		C57
Geocentric position (km)	−200185.148	+114780.850	−61704.3940			
160P	2019 07 16.115037	18 45 36.86	−44 20 54.4	18.6 G		C57
Geocentric position (km)	−199648.207	+112476.996	−61688.0210			

160P 2019 07 16.156704 18 45 33.79 −44 20 34.8 18.9 G C57
Geocentric position (km) −198516.095 +107836.933 −61637.1000
160P 2019 07 16.448370 18 45 13.95 −44 19 19.0 18.7 G C57
Geocentric position (km) −188184.292 +74163.6680 −60519.3840
160P 2019 07 16.469204 18 45 11.60 −44 19 08.3 18.7 G C57
Geocentric position (km) −187267.486 +71680.4680 −60382.2560
160P 2019 07 17.177537 18 44 19.76 −44 16 14.4 18.2 G C57
Geocentric position (km) −135944.136 −17168.3530 −48956.3770

162P/Siding Spring

162P 2020 12 04.169900 22 37 10.58 −12 46 26.6 16.48r I41
162P 2020 12 04.183020 22 37 12.24 −12 45 48.4 16.48r I41
162P 2020 12 06.110340 22 41 23.53 −11 12 52.9 16.96g I41
162P 2020 12 06.169550 22 41 31.10 −11 10 01.8 16.33r I41
162P 2020 12 06.171420 22 41 31.35 −11 09 56.4 16.35r I41
162P 2020 12 06.197350 22 41 34.67 −11 08 41.4 16.34r I41
162P 2021 01 13.112490 00 10 33.39 +16 11 48.3 17.13g I41
162P 2021 01 13.131240 00 10 36.23 +16 12 29.8 16.43r I41
162P 2021 01 15.123580 00 15 43.53 +17 25 22.8 16.32r I41
162P 2021 01 15.174920 00 15 51.40 +17 27 13.6 16.89g I41
162P 2021 01 17.134590 00 20 57.10 +18 37 25.3 17.07g I41
162P 2021 01 17.164319 00 21 01.70 +18 38 28.3 16.48r I41
162P 2021 02 07.133541 01 19 13.18 +29 36 28.9 17.69g I41
162P 2021 02 07.134020 01 19 13.26 +29 36 29.7 17.67g I41
162P 2021 02 07.154700 01 19 16.88 +29 37 03.3 17.08r I41
162P 2021 02 07.155160 01 19 16.97 +29 37 04.1 17.04r I41
162P 2021 02 07.163670 01 19 18.46 +29 37 17.9 17.01r I41
162P 2021 02 09.133450 01 25 08.82 +30 30 16.6 17.79g I41
162P 2021 02 09.173100 01 25 15.86 +30 31 19.2 17.05r I41
162P 2021 05 15.165780 06 44 37.60 +44 45 26.9 18.39r I41
162P 2021 05 15.167350 06 44 37.89 +44 45 26.5 18.39r I41
162P 2021 05 15.168920 06 44 38.18 +44 45 25.9 18.34r I41
162P 2021 05 15.170500 06 44 38.46 +44 45 25.5 18.39r I41
162P 2021 05 15.172069 06 44 38.75 +44 45 25.0 18.43r I41
162P 2021 05 20.165670 06 59 43.05 +44 17 15.6 18.15r I41

163P/NEAT

163P 2020 02 19.340010 11 32 24.75 +21 36 15.7 20.80r I41
163P 2020 02 19.353900 11 32 24.20 +21 36 23.2 20.85r I41
163P 2020 02 19.423140 11 32 21.26 +21 36 59.7 21.38g I41
163P 2020 02 20.335880 11 31 44.85 +21 44 55.6 20.51r I41
163P 2020 02 20.354400 11 31 44.06 +21 45 05.2 20.57r I41

173P/Mueller

173P 2019 08 03.453400 03 23 02.74 +03 31 57.5 20.14g I41
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183P/Korlević-Jurić

183P 2019 05 12.198398 15 23 56.07 −38 27 49.7 18.0 G C57
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186P/Garradd

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186P 2019 06 17.010883 16 32 33.96 −56 30 47.9 16.7 G C57
Geocentric position (km) −201035.232 +143538.774 −66536.0290
186P 2019 06 17.031716 16 32 32.88 −56 30 41.8 16.7 G C57
Geocentric position (km) −200758.266 +141343.546 −66610.3860
186P 2019 06 17.052550 16 32 31.87 −56 30 40.7 16.8 G C57
Geocentric position (km) −200465.495 +139137.284 −66679.4690
186P 2019 06 17.073383 16 32 30.81 −56 30 36.1 16.8 G C57
Geocentric position (km) −200156.671 +136919.976 −66743.1810
186P 2019 06 17.094216 16 32 29.57 −56 30 30.7 17.0 G C57
Geocentric position (km) −199831.544 +134691.607 −66801.4260
186P 2019 06 17.156716 16 32 25.86 −56 30 19.2 16.7 G C57
Geocentric position (km) −198755.741 +127940.040 −66942.3560
186P 2019 06 17.177550 16 32 25.26 −56 30 13.1 16.7 G C57
Geocentric position (km) −198362.767 +125667.339 −66977.7160
186P 2019 06 17.198383 16 32 23.76 −56 30 07.5 16.7 G C57
Geocentric position (km) −197952.141 +123383.540 −67007.0860
186P 2019 06 17.219216 16 32 22.85 −56 30 02.8 16.7 G C57
Geocentric position (km) −197523.574 +121088.643 −67030.3550
186P 2019 06 17.240050 16 32 21.08 −56 29 58.1 16.7 G C57
Geocentric position (km) −197076.768 +118782.648 −67047.4060
186P 2019 06 17.260883 16 32 20.49 −56 29 55.9 16.9 G C57
Geocentric position (km) −196611.420 +116465.558 −67058.1200
186P 2019 06 17.281716 16 32 19.22 −56 29 45.3 16.9 G C57
Geocentric position (km) −196127.217 +114137.379 −67062.3760

186P	2019 06 17.302550	16 32 18.06	−56 29 45.5	16.6	G		C57	
Geocentric position (km)	−195623.840	+111798.121	−67060.0480					
186P	2019 06 17.344216	16 32 16.17	−56 29 36.0	16.6	G		C57	
Geocentric position (km)	−194558.246	+107086.416	−67035.1230					
186P	2019 06 17.406716	16 32 11.90	−56 29 19.4	16.6	G		C57	
Geocentric position (km)	−192807.579	+99936.1690	−66945.0240					
186P	2019 06 17.656716	16 31 58.39	−56 28 25.2	16.4	G		C57	
Geocentric position (km)	−183779.395	+70362.6520	−65873.2380					
186P	2019 06 17.677550	16 31 57.05	−56 28 16.0	16.8	G		C57	
Geocentric position (km)	−182865.559	+67830.1910	−65726.4380					
186P	2019 06 17.698383	16 31 55.63	−56 28 13.4	17.1	G		C57	
Geocentric position (km)	−181924.583	+65287.7140	−65569.8640					
186P	2019 06 17.948383	16 31 41.57	−56 27 22.0	17.2	G		C57	
Geocentric position (km)	−168300.936	+34057.2570	−62839.7740					
186P	2019 06 18.010883	16 31 38.56	−56 27 02.1	16.9	G		C57	
Geocentric position (km)	−164142.069	+26069.7650	−61878.1270					
186P	2019 06 18.031716	16 31 37.41	−56 27 00.3	16.7	G		C57	
Geocentric position (km)	−162680.782	+23394.6920	−61529.3410					
186P	2019 06 18.052549	16 31 35.59	−56 26 59.1	16.7	G		C57	
Geocentric position (km)	−161180.573	+20714.0460	−61165.8240					
186P	2019 06 18.073383	16 31 33.94	−56 26 52.1	16.6	G		C57	
Geocentric position (km)	−159640.552	+18028.3080	−60787.1900					
186P	2019 06 18.094216	16 31 33.07	−56 26 50.1	16.6	G		C57	
Geocentric position (km)	−158059.801	+15337.9920	−60393.0370					
186P	2019 06 18.115049	16 31 31.51	−56 26 42.0	16.7	G		C57	
Geocentric position (km)	−156437.377	+12643.6530	−59982.9530					
186P	2019 06 18.135883	16 31 30.21	−56 26 34.2	16.6	G		C57	
Geocentric position (km)	−154772.309	+ 9945.8860	−59556.5110					
186P	2019 06 18.156716	16 31 29.52	−56 26 28.1	16.7	G		C57	
Geocentric position (km)	−153063.599	+ 7245.3320	−59113.2680					
186P	2019 06 18.177549	16 31 28.75	−56 26 22.9	16.6	G		C57	
Geocentric position (km)	−151310.223	+ 4542.6790	−58652.7700					
186P	2019 06 18.323383	16 31 19.30	−56 26 02.1	16.5	G		C57	
Geocentric position (km)	−137693.829	−14364.9850	−54904.4730					
186P	2019 06 18.344216	16 31 18.42	−56 25 56.4	16.5	G		C57	
Geocentric position (km)	−135542.816	−17052.5830	−54287.5930					
186P	2019 06 18.365049	16 31 17.33	−56 25 50.3	16.4	G		C57	
Geocentric position (km)	−133336.649	−19733.2420	−53648.6250					

191P/McNaught

191P	2021 09 05.12605	06 32 58.86	+20 13 42.1	19.1	T	K	215
191P	2021 09 05.12798	06 32 58.98	+20 13 42.4	18.8	T	K	215

193P/LINEAR-NEAT

193P	2021 08 06.258542	23 36 48.30	−02 06 45.0	18.4	T		KW62
193P	2021 08 06.269589	23 36 48.15	−02 06 40.9	18.5	T		KW62
193P	2021 08 06.281279	23 36 47.97	−02 06 36.6	18.4	T		KW62
193P	2021 08 06.520473	23 36 45.14	−02 05 04.0	17.71c			T08
193P	2021 08 06.527428	23 36 45.09	−02 05 01.5	17.73c			T08
193P	2021 08 06.530653	23 36 45.05	−02 05 00.2	18.16c			T08
193P	2021 08 06.542022	23 36 44.88	−02 04 55.9	17.96c			T08
193P	2021 08 08.484045	23 36 19.19	−01 52 57.7	16.99o			T05
193P	2021 08 08.486822	23 36 19.18	−01 52 56.7	17.25o			T05
193P	2021 08 08.509618	23 36 18.76	−01 52 47.7	17.21o			T05
193P	2021 08 08.511448	23 36 18.72	−01 52 47.4	17.01o			T05
193P	2021 08 08.512364	23 36 18.71	−01 52 46.9	16.93o			T05
193P	2021 08 08.514193	23 36 18.71	−01 52 46.2	17.95o			T05
193P	2021 08 08.521513	23 36 18.54	−01 52 43.7	17.17o			T05
193P	2021 08 10.08890	23 35 52.87	−01 43 23.9	17.7	T	K	Z10
193P	2021 08 10.09512	23 35 52.76	−01 43 21.5	17.9	T	K	Z10
193P	2021 08 10.10211	23 35 52.61	−01 43 19.1	17.7	T	K	Z10
193P	2021 08 10.495915	23 35 45.55	−01 40 59.1	17.42c			T08
193P	2021 08 10.497756	23 35 45.53	−01 40 58.1	18.18c			T08
193P	2021 08 10.500979	23 35 45.43	−01 40 57.5	17.47c			T08
193P	2021 08 10.506135	23 35 45.34	−01 40 55.1	18.11c			T08
193P	2021 08 12.484212	23 35 05.62	−01 29 36.0	17.15o			T05
193P	2021 08 12.486995	23 35 05.640	−01 29 34.68	18.84w			F51
193P	2021 08 12.501252	23 35 05.22	−01 29 30.1	16.94o			T05
193P	2021 08 12.504482	23 35 05.16	−01 29 29.3	16.96o			T05
193P	2021 08 12.508601	23 35 05.09	−01 29 27.6	17.79o			T05
193P	2021 08 12.511958	23 35 05.021	−01 29 26.19	18.61w			F51
193P	2021 08 12.524458	23 35 04.712	−01 29 22.01	18.63w			F51
193P	2021 08 12.94605	23 34 55.49	−01 27 03.8	17.7	T	K	A71
193P	2021 08 12.95050	23 34 55.38	−01 27 02.1	17.6	T	K	A71
193P	2021 08 12.95495	23 34 55.27	−01 27 00.7	17.6	T	K	A71
193P	2021 08 12.95866	23 34 55.19	−01 26 59.9	17.6	T	K	A71
193P	2021 08 13.02494	23 34 53.68	−01 26 37.7	17.3	T	K	C23
193P	2021 08 13.02855	23 34 53.57	−01 26 36.3	17.4	T	K	C23
193P	2021 08 13.03216	23 34 53.48	−01 26 35.3	17.2	T	K	C23
193P	2021 08 16.527686	23 33 24.51	−01 07 49.2	17.03o			T05
193P	2021 08 16.531188	23 33 24.39	−01 07 47.6	16.94o			T05
193P	2021 08 16.556971	23 33 23.60	−01 07 39.9	16.96o			T05
193P	2021 08 16.585378	23 33 22.71	−01 07 31.2	16.80o			T05
193P	2021 08 16.75019	23 33 18.18	−01 06 41.7	17.3	R		D29
193P	2021 08 16.76433	23 33 17.73	−01 06 37.5	18.2	R		D29
193P	2021 08 16.77848	23 33 17.31	−01 06 32.7	18.6	R		D29
193P	2021 08 18.05719	23 32 39.84	−01 00 05.0	17.6	T	K	Z10
193P	2021 08 18.06351	23 32 39.62	−01 00 03.3	17.6	T	K	Z10
193P	2021 08 18.07062	23 32 39.36	−01 00 00.6	17.6	T	K	Z10
193P	2021 08 18.08226	23 32 38.96	−00 59 57.5	16.7	T		A77
193P	2021 08 18.08638	23 32 38.84	−00 59 56.8	16.6	T		A77
193P	2021 08 18.09132	23 32 38.63	−00 59 55.5	16.6	T		A77
193P	2021 08 18.450544	23 32 27.79	−00 58 06.0	16.91o			T08
193P	2021 08 18.452389	23 32 27.75	−00 58 05.4	16.75o			T08
193P	2021 08 18.455622	23 32 27.62	−00 58 04.4	16.92o			T08
193P	2021 08 18.462684	23 32 27.42	−00 58 02.2	17.61o			T08
193P	2021 08 18.56664	23 32 24.29	−00 57 33.0				349
193P	2021 08 18.57857	23 32 23.92	−00 57 29.8				349
193P	2021 08 18.59046	23 32 23.51	−00 57 26.0	16.6	T		349
193P	2021 08 25.58886	23 28 11.74	−00 25 29.7	18.0	T	K	E94
193P	2021 08 25.59903	23 28 11.31	−00 25 27.3	17.9	T	K	E94
193P	2021 08 25.60921	23 28 10.86	−00 25 25.0	18.0	T	K	E94
193P	2021 08 25.61938	23 28 10.44	−00 25 22.6	17.8	T	K	E94
193P	2021 08 26.505786	23 27 34.25	−00 21 52.2	16.54o			T08
193P	2021 08 26.509011	23 27 34.10	−00 21 51.4	16.59o			T08
193P	2021 08 26.516149	23 27 33.82	−00 21 49.9	16.47o			T08
193P	2021 08 26.550398	23 27 32.30	−00 21 41.3	16.78o			T08

193P	2021 08 27.399649	23 26 56.80	−00 18 18.4	16.67G		703
193P	2021 08 27.405597	23 26 56.50	−00 18 17.1	16.64G		703
193P	2021 08 27.411703	23 26 56.29	−00 18 15.8	16.60G		703
193P	2021 08 27.417745	23 26 55.97	−00 18 14.3	16.69G		703
193P	2021 08 27.588287	23 26 48.723	−00 17 32.33	18.12i		F51
193P	2021 08 27.597529	23 26 48.307	−00 17 30.00	18.11i		F51
193P	2021 08 27.606840	23 26 47.891	−00 17 27.86	18.25i		F51
193P	2021 08 28.443075	23 26 12.42	−00 14 12.8	17.31o		T05
193P	2021 08 28.444905	23 26 12.33	−00 14 12.5	16.78o		T05
193P	2021 08 28.447647	23 26 12.20	−00 14 12.0	17.47o		T05
193P	2021 08 28.455498	23 26 11.81	−00 14 09.9	16.67o		T05
193P	2021 08 30.488654	23 24 41.63	−00 06 34.4	16.61o		T08
193P	2021 08 30.518698	23 24 40.20	−00 06 27.7	16.46o		T08
193P	2021 08 30.522056	23 24 40.04	−00 06 27.1	16.62o		T08
193P	2021 08 30.527728	23 24 39.77	−00 06 25.8	16.53o		T08
193P	2021 09 01.13958	23 23 25.85	−00 00 44.3	17.0	N	J22
193P	2021 09 01.14332	23 23 25.69	−00 00 43.4	17.0	N	J22
193P	2021 09 01.14707	23 23 25.50	−00 00 42.8	17.0	N	J22
193P	2021 09 01.526539	23 23 07.75	+00 00 36.3	16.29o		T05
193P	2021 09 01.529770	23 23 07.62	+00 00 37.3	17.21o		T05
193P	2021 09 01.535292	23 23 07.32	+00 00 38.5	16.85o		T05
193P	2021 09 01.569490	23 23 05.66	+00 00 45.6	16.62o		T05
193P	2021 09 01.91987	23 22 49.67	+00 01 53.6	16.9	T	K 215
193P	2021 09 01.92116	23 22 49.61	+00 01 53.9	16.9	T	K 215
193P	2021 09 01.92245	23 22 49.55	+00 01 54.3	16.8	T	K 215
193P	2021 09 02.94214	23 22 01.14	+00 05 17.1	16.3	T	K77
193P	2021 09 02.95625	23 22 00.42	+00 05 20.0	16.6	T	K77
193P	2021 09 03.319274	23 21 43.05	+00 06 33.1	16.26G		703
193P	2021 09 03.325211	23 21 42.75	+00 06 34.3	16.31G		703
193P	2021 09 03.331216	23 21 42.46	+00 06 35.5	16.33G		703
193P	2021 09 03.337283	23 21 42.15	+00 06 36.6	16.31G		703
193P	2021 09 03.458685	23 21 36.36	+00 07 02.2	16.40o		T08
193P	2021 09 03.489290	23 21 34.80	+00 07 07.9	16.38o		T08
193P	2021 09 03.492515	23 21 34.64	+00 07 08.6	16.44o		T08
193P	2021 09 03.499466	23 21 34.29	+00 07 09.9	16.36o		T08
193P	2021 09 04.349832	23 20 53.719	+00 09 52.64	17.69w		F51
193P	2021 09 04.360699	23 20 53.157	+00 09 54.70	17.74w		F51
193P	2021 09 04.371538	23 20 52.615	+00 09 56.70	17.67w		F51
193P	2021 09 04.382418	23 20 52.054	+00 09 58.73	17.70w		F51
193P	2021 09 04.909549	23 20 26.41	+00 11 33.8	17.3	T	K G33
193P	2021 09 04.911897	23 20 26.28	+00 11 34.5	17.2	T	K G33
193P	2021 09 04.914171	23 20 26.16	+00 11 34.8	17.1	T	K G33
193P	2021 09 04.916412	23 20 26.05	+00 11 35.1	17.3	T	K G33
193P	2021 09 04.918895	23 20 25.94	+00 11 36.4	17.6	T	K G33
193P	2021 09 04.921113	23 20 25.81	+00 11 35.7	17.2	T	K G33
193P	2021 09 04.98292	23 20 22.76	+00 11 48.9	16.7	N	Z55
193P	2021 09 04.98432	23 20 22.69	+00 11 49.4	16.8	N	Z55
193P	2021 09 04.98573	23 20 22.63	+00 11 49.2	16.8	N	Z55
193P	2021 09 04.98713	23 20 22.57	+00 11 49.6	16.7	N	Z55
193P	2021 09 04.98854	23 20 22.48	+00 11 49.8	16.8	N	Z55
193P	2021 09 05.31639	23 20 06.16	+00 12 59.0	16.6	T	23W88
193P	2021 09 05.32713	23 20 05.59	+00 13 00.5	17.1	T	23W88
193P	2021 09 05.33707	23 20 05.06	+00 13 02.4	16.9	T	23W88
193P	2021 09 05.404045	23 20 02.21	+00 13 07.8	16.61c		T05
193P	2021 09 05.439714	23 20 00.37	+00 13 14.4	16.59c		T05
193P	2021 09 05.442706	23 20 00.21	+00 13 14.8	16.56c		T05
193P	2021 09 05.445460	23 20 00.09	+00 13 15.7	17.34c		T05
193P	2021 09 05.88798	23 19 38.58	+00 14 32.3	16.8	T	B96
193P	2021 09 05.89291	23 19 38.26	+00 14 35.2	16.6	T	B96
193P	2021 09 05.89784	23 19 38.04	+00 14 34.0	16.3	T	B96
193P	2021 09 05.91492	23 19 37.19	+00 14 38.8	17.3	T	K G02
193P	2021 09 05.92059	23 19 36.87	+00 14 39.3	17.3	T	K G02
193P	2021 09 05.92661	23 19 36.58	+00 14 40.0	17.2	T	K G02
193P	2021 09 06.12630	23 19 26.55	+00 15 18.2	16.9	N	J22
193P	2021 09 06.12997	23 19 26.38	+00 15 18.9	16.9	N	J22
193P	2021 09 06.13369	23 19 26.18	+00 15 19.3	16.9	N	J22
193P	2021 09 06.92075	23 18 47.72	+00 17 36.9	16.8	T	C23
193P	2021 09 06.92508	23 18 47.44	+00 17 38.4	17.1	T	C23
193P	2021 09 06.92797	23 18 47.27	+00 17 38.1	16.8	T	C23
193P	2021 09 07.237336	23 18 31.99	+00 18 32.4	16.10G		703
193P	2021 09 07.242558	23 18 31.72	+00 18 33.4	16.09G		703
193P	2021 09 07.247788	23 18 31.47	+00 18 34.3	16.13G		703
193P	2021 09 07.253013	23 18 31.21	+00 18 35.0	16.08G		703
193P	2021 09 07.437216	23 18 21.95	+00 19 08.8	16.27o		T08
193P	2021 09 07.449292	23 18 21.34	+00 19 11.4	17.14o		T08
193P	2021 09 07.452722	23 18 21.14	+00 19 11.6	16.24o		T08
193P	2021 09 07.460820	23 18 20.72	+00 19 13.5	17.19o		T08
193P	2021 09 08.04436	23 17 51.80	+00 20 49.0	16.5	T	K I81
193P	2021 09 08.04647	23 17 51.69	+00 20 49.4	16.5	T	K I81
193P	2021 09 08.04858	23 17 51.58	+00 20 49.8	16.5	T	K I81
193P	2021 09 09.190955	23 16 55.04	+00 24 01.7	16.17G		703
193P	2021 09 09.195629	23 16 54.79	+00 24 02.9	16.13G		703
193P	2021 09 09.200307	23 16 54.55	+00 24 03.3	16.17G		703
193P	2021 09 09.204983	23 16 54.32	+00 24 03.9	16.21G		703
193P	2021 09 09.609593	23 16 33.94	+00 25 10.3	17.3	T	900
193P	2021 09 09.616598	23 16 33.57	+00 25 11.5	17.4	T	900
193P	2021 09 10.260467	23 16 01.57	+00 26 54.5	16.37G		G96
193P	2021 09 10.266101	23 16 01.28	+00 26 55.4	16.35G		G96
193P	2021 09 10.273094	23 16 00.92	+00 26 56.5	16.39G		G96
193P	2021 09 10.278724	23 16 00.62	+00 26 57.4	16.41G		G96
193P	2021 09 10.70659	23 15 39.08	+00 28 04.4	15.4	R	D29
193P	2021 09 10.72073	23 15 38.35	+00 28 06.7	15.8	R	D29
193P	2021 09 10.73487	23 15 37.59	+00 28 08.7	15.6	R	D29
193P	2021 09 10.86992	23 15 31.05	+00 28 27.5	17.1	T	L79
193P	2021 09 10.87288	23 15 31.08	+00 28 29.3	17.1	T	L79
193P	2021 09 10.87543	23 15 30.86	+00 28 30.4	17.0	T	L79
193P	2021 09 10.97655	23 15 25.77	+00 28 46.1	16.5	N	J59
193P	2021 09 10.97947	23 15 25.64	+00 28 45.6	16.4	N	J59
193P	2021 09 10.98528	23 15 25.40	+00 28 46.3	16.5	N	J59
193P	2021 09 11.234480	23 15 13.07	+00 29 27.1	16.10G		703
193P	2021 09 11.239786	23 15 12.78	+00 29 27.7	16.10G		703
193P	2021 09 11.245092	23 15 12.51	+00 29 28.6	16.11G		703
193P	2021 09 11.250396	23 15 12.24	+00 29 29.5	16.07G		703
193P	2021 09 13.342859	23 13 28.410	+00 34 45.96	18.08w		F51
193P	2021 09 13.346111	23 13 28.247	+00 34 46.35	18.01w		F51
193P	2021 09 13.354654	23 13 27.795	+00 34 47.69	18.08w		F51

193P	2021 09 13.357882	23 13 27.629	+00 34 48.02	17.95w	F51
193P	2021 09 13.369634	23 13 27.021	+00 34 49.84	18.04w	F51
193P	2021 09 13.378144	23 13 26.575	+00 34 51.02	18.09w	F51
193P	2021 09 13.381366	23 13 26.408	+00 34 51.58	18.04w	F51
193P	2021 09 14.256140	23 12 43.24	+00 36 56.0	16.13G	703
193P	2021 09 14.261435	23 12 42.96	+00 36 56.8	16.08G	703
193P	2021 09 14.266726	23 12 42.67	+00 36 57.6	16.12G	703
193P	2021 09 14.272025	23 12 42.40	+00 36 58.5	16.13G	703
193P	2021 09 16.01428	23 11 17.13	+00 41 01.1	16.8 T	C23
193P	2021 09 16.01861	23 11 16.94	+00 41 01.8	17.0 T	C23
193P	2021 09 16.02294	23 11 16.75	+00 41 01.9	16.5 T	C23
193P	2021 09 16.59711	23 10 49.20	+00 42 21.8	15.4 R	D29
193P	2021 09 16.61479	23 10 48.31	+00 42 24.0	15.4 R	D29
193P	2021 09 16.63247	23 10 47.42	+00 42 26.5	15.4 R	D29

195P/Hill

195P	2021 09 13.08232	00 38 24.88	+37 33 05.3	20.5 N	K A77
195P	2021 09 13.09348	00 38 24.85	+37 33 04.7	20.7 N	K A77

203P/Korlević

203P	2020 09 21.508041	09 10 01.92	+15 44 04.9	20.29r	I41
203P	2020 09 21.512770	09 10 02.30	+15 44 03.4	20.25r	I41
203P	2020 09 21.517490	09 10 02.67	+15 44 01.8	20.26r	I41
203P	2020 09 23.510959	09 12 30.03	+15 31 57.4	20.12r	I41
203P	2020 09 23.515690	09 12 30.35	+15 31 55.6	19.97r	I41
203P	2020 09 23.520431	09 12 30.71	+15 31 54.2	19.95r	I41
203P	2020 09 25.509250	09 14 55.88	+15 19 51.5	20.05r	I41
203P	2020 09 25.513959	09 14 56.29	+15 19 49.8	19.90r	I41
203P	2020 09 25.518660	09 14 56.58	+15 19 48.2	19.88r	I41
203P	2020 09 25.523370	09 14 56.95	+15 19 46.2	19.83r	I41

215P/NEAT

215P	2021 02 18.116440	01 04 33.77	+01 46 44.5	18.65r	I41
215P	2021 02 18.119420	01 04 33.87	+01 46 46.0	19.11r	I41
215P	2021 02 18.122410	01 04 34.08	+01 46 47.4	18.95r	I41
215P	2021 02 18.125410	01 04 34.21	+01 46 49.2	18.90r	I41
215P	2021 02 18.128390	01 04 34.40	+01 46 49.0	18.58r	I41
215P	2021 02 19.119510	01 05 29.46	+01 54 23.6	19.13r	I41
215P	2021 02 19.122510	01 05 29.64	+01 54 24.3	19.12r	I41
215P	2021 02 19.125490	01 05 29.79	+01 54 25.8	18.78r	I41
215P	2021 02 19.128480	01 05 29.95	+01 54 27.5	19.06r	I41
215P	2021 02 20.121541	01 06 25.44	+02 02 01.9	19.32r	I41
215P	2021 02 20.124530	01 06 25.60	+02 02 03.6	19.26r	I41
215P	2021 02 20.127510	01 06 25.77	+02 02 04.9	19.05r	I41
215P	2021 02 20.130510	01 06 25.92	+02 02 06.2	19.32r	I41
215P	2021 02 26.108291	01 12 05.99	+02 47 49.6	19.05r	I41
215P	2021 02 26.113060	01 12 06.26	+02 47 50.6	19.15r	I41
215P	2021 02 26.115440	01 12 06.44	+02 47 52.3	19.08r	I41
215P	2021 02 26.117819	01 12 06.57	+02 47 53.4	19.11r	I41
215P	2021 02 27.109310	01 13 03.95	+02 55 28.8	18.88r	I41
215P	2021 02 27.111750	01 13 04.10	+02 55 28.7	19.08r	I41
215P	2021 02 27.114190	01 13 04.28	+02 55 30.7	19.19r	I41
215P	2021 02 27.116630	01 13 04.42	+02 55 31.7	18.91r	I41
215P	2021 02 27.119069	01 13 04.57	+02 55 33.3	18.90r	I41
215P	2021 02 28.112280	01 14 02.33	+03 03 09.0	19.11r	I41
215P	2021 02 28.114709	01 14 02.47	+03 03 09.9	18.85r	I41
215P	2021 02 28.117140	01 14 02.63	+03 03 11.0	18.96r	I41
215P	2021 02 28.119560	01 14 02.75	+03 03 12.6	18.93r	I41
215P	2021 03 01.120100	01 15 01.21	+03 10 52.0	18.72r	I41
215P	2021 03 02.110510	01 15 59.35	+03 18 26.8	19.10r	I41
215P	2021 03 02.115270	01 15 59.62	+03 18 29.4	19.17r	I41
215P	2021 03 02.117640	01 15 59.77	+03 18 29.9	18.87r	I41
215P	2021 03 02.120010	01 15 59.88	+03 18 31.4	19.20r	I41
215P	2021 07 07.466590	03 29 17.05	+16 39 11.7	19.57r	I41
215P	2021 07 07.471550	03 29 17.31	+16 39 11.7	19.48r	I41
215P	2021 07 07.474041	03 29 17.53	+16 39 13.2	19.35r	I41
215P	2021 07 08.466640	03 30 11.18	+16 43 13.7	19.66r	I41
215P	2021 07 08.469181	03 30 11.27	+16 43 14.9	19.51r	I41
215P	2021 07 08.471700	03 30 11.46	+16 43 15.1	19.72r	I41
215P	2021 07 08.474240	03 30 11.59	+16 43 15.6	19.63r	I41
215P	2021 07 09.465580	03 31 04.81	+16 47 14.1	19.34r	I41
215P	2021 07 09.468080	03 31 04.96	+16 47 14.7	19.36r	I41
215P	2021 07 09.470580	03 31 05.12	+16 47 15.2	19.62r	I41
215P	2021 07 09.473090	03 31 05.20	+16 47 15.9	19.63r	I41
215P	2021 07 09.475600	03 31 05.36	+16 47 16.6	19.46r	I41
215P	2021 07 10.467300	03 31 58.15	+16 51 12.0	19.50r	I41
215P	2021 07 10.469810	03 31 58.30	+16 51 13.2	19.54r	I41
215P	2021 07 10.472310	03 31 58.43	+16 51 13.6	19.28r	I41
215P	2021 07 10.474830	03 31 58.60	+16 51 14.0	19.35r	I41
215P	2021 07 10.477340	03 31 58.72	+16 51 14.9	19.68r	I41
215P	2021 08 08.592392	03 54 23.333	+18 28 58.38	20.56w	F51
215P	2021 08 08.597803	03 54 23.548	+18 28 59.33	20.41w	F51
215P	2021 08 08.603228	03 54 23.745	+18 29 00.25	20.57w	F51
215P	2021 08 08.608640	03 54 23.959	+18 29 01.20	20.36w	F51
215P	2021 08 19.572302	04 00 39.53	+18 57 17.1	19.20o	T08
215P	2021 08 19.575536	04 00 39.60	+18 57 17.9	19.36o	T08
215P	2021 08 19.582008	04 00 39.85	+18 57 18.8	19.27o	T08
215P	2021 08 19.592074	04 00 40.08	+18 57 19.3	19.19o	T08
215P	2021 09 04.573065	04 07 01.22	+19 30 43.2	18.48o	T08
215P	2021 09 04.576295	04 07 01.27	+19 30 44.0	18.61o	T08
215P	2021 09 04.586830	04 07 01.46	+19 30 44.7	19.24o	T08
215P	2021 09 04.592386	04 07 01.57	+19 30 45.3	19.33o	T08

223P/Skiff

223P	2020 02 01.215431	07 53 58.03	+50 26 56.8	20.15r	I41
223P	2020 02 01.258819	07 53 54.98	+50 26 42.6	20.56g	I41
223P	2020 02 02.219640	07 52 50.93	+50 21 20.9	20.57g	I41
223P	2020 02 02.278620	07 52 46.95	+50 21 00.9	20.08r	I41
223P	2020 02 16.198580	07 40 01.54	+48 44 15.9	21.02g	I41
223P	2020 02 16.258440	07 39 58.87	+48 43 47.3	20.34r	I41
223P	2020 02 19.140360	07 38 03.03	+48 20 11.7	20.52r	I41
223P	2020 02 19.151130	07 38 02.65	+48 20 06.2	20.30r	I41
223P	2020 02 19.205580	07 38 00.58	+48 19 39.2	21.23g	I41
223P	2020 02 19.208760	07 38 00.40	+48 19 37.8	21.01g	I41
223P	2020 02 19.303600	07 37 56.68	+48 18 50.0	20.50r	I41

230P/LINEAR

230P	2021 08 04.12729	22 30 35.89	−25 14 21.1	18.6 T		X03
230P	2021 08 04.14401	22 30 35.31	−25 14 33.5	19.1 T	K	X03
230P	2021 08 04.16520	22 30 34.57	−25 14 48.3	18.7 T		X03
230P	2021 08 06.69752	22 29 06.75	−25 44 47.4	18.5 R		D29
230P	2021 08 06.71432	22 29 06.11	−25 44 59.2	19.1 R		D29
230P	2021 08 06.73111	22 29 05.46	−25 45 11.7	18.8 R		D29
230P	2021 08 07.474152	22 28 37.96	−25 54 01.8	18.52o		T05
230P	2021 08 07.476503	22 28 37.89	−25 54 02.7	18.51o		T05
230P	2021 08 07.479247	22 28 37.84	−25 54 04.4	18.50o		T05
230P	2021 08 07.484761	22 28 37.57	−25 54 09.1	18.73o		T05
230P	2021 08 09.460125	22 27 20.83	−26 17 43.5	18.84c		T08
230P	2021 08 09.478715	22 27 20.04	−26 17 55.9	19.05c		T08
230P	2021 08 09.483812	22 27 19.80	−26 18 00.4	18.72c		T08
230P	2021 08 09.486118	22 27 19.70	−26 18 01.7	18.78c		T08
230P	2021 08 10.02215	22 26 57.94	−26 24 28.1	19.0 T	K	215
230P	2021 08 10.02408	22 26 57.89	−26 24 29.5	19.0 T	K	215
230P	2021 08 10.02602	22 26 57.83	−26 24 30.8		K	215
230P	2021 08 13.443539	22 24 30.67	−27 05 20.9	18.89c		T08
230P	2021 08 13.445383	22 24 30.55	−27 05 22.5	18.91c		T08
230P	2021 08 13.448148	22 24 30.43	−27 05 25.0	19.26c		T08
230P	2021 08 13.453212	22 24 30.22	−27 05 27.0	19.29c		T08
230P	2021 08 16.461836	22 22 09.317	−27 41 10.59	18.63w		F51
230P	2021 08 16.471534	22 22 08.824	−27 41 17.45	18.59w		F51
230P	2021 08 16.481248	22 22 08.330	−27 41 24.32	18.56w		F51
230P	2021 08 16.490991	22 22 07.833	−27 41 31.16	18.53w		F51
230P	2021 08 17.409667	22 21 23.11	−27 52 18.4	18.17o		T08
230P	2021 08 17.420001	22 21 22.56	−27 52 26.3	18.45o		T08
230P	2021 08 17.423685	22 21 22.41	−27 52 29.2	18.45o		T08
230P	2021 08 17.429211	22 21 22.11	−27 52 32.8	18.59o		T08
230P	2021 08 25.394889	22 14 23.43	−29 22 33.1	18.41o		T08
230P	2021 08 25.399495	22 14 23.21	−29 22 36.4	17.96o		T08
230P	2021 08 25.405949	22 14 22.80	−29 22 40.2	18.29o		T08
230P	2021 08 25.459377	22 14 19.72	−29 23 15.4	18.17o		T08
230P	2021 08 25.462602	22 14 19.56	−29 23 16.2	18.54o		T08
230P	2021 08 25.470478	22 14 19.09	−29 23 21.8	18.22o		T08
230P	2021 08 25.488509	22 14 18.00	−29 23 32.6	18.30o		T08
230P	2021 08 26.55691	22 13 18.78	−29 34 50.6	17.2 T	K	E94
230P	2021 08 26.55929	22 13 18.67	−29 34 52.5	17.0 T	K	E94
230P	2021 08 26.56167	22 13 18.52	−29 34 53.7	17.2 T	K	E94
230P	2021 08 27.390058	22 12 32.58	−29 43 40.9	18.31o		T05
230P	2021 08 27.391886	22 12 32.48	−29 43 41.9	18.45o		T05
230P	2021 08 27.430253	22 12 30.25	−29 44 06.0	18.41o		T05
230P	2021 08 27.452389	22 12 28.82	−29 44 20.0	18.15o		T05
230P	2021 08 29.382021	22 10 40.57	−30 04 02.1	18.11o		T08
230P	2021 08 29.384326	22 10 40.45	−30 04 03.5	18.34o		T08
230P	2021 08 29.387091	22 10 40.31	−30 04 04.7	18.39o		T08
230P	2021 08 29.392622	22 10 39.94	−30 04 08.1	18.19o		T08
230P	2021 08 31.332360	22 08 50.346	−30 23 10.22	18.58w		F52
230P	2021 08 31.341289	22 08 49.821	−30 23 15.44	18.54w		F52
230P	2021 08 31.350220	22 08 49.289	−30 23 20.60	18.48w		F52
230P	2021 08 31.359178	22 08 48.759	−30 23 25.84	18.49w		F52
230P	2021 08 31.385394	22 08 47.21	−30 23 41.1	18.77c		T05
230P	2021 08 31.387233	22 08 47.12	−30 23 42.1	18.84c		T05
230P	2021 08 31.392722	22 08 46.81	−30 23 45.1	18.49c		T05
230P	2021 08 31.403815	22 08 46.15	−30 23 51.7	18.81c		T05
230P	2021 09 04.413334	22 04 59.67	−31 00 23.4	18.85c		T05
230P	2021 09 04.416556	22 04 59.50	−31 00 24.8	18.74c		T05
230P	2021 09 04.422049	22 04 59.16	−31 00 28.2	18.79c		T05
230P	2021 09 04.455403	22 04 57.18	−31 00 45.4	18.74c		T05
230P	2021 09 06.447171	22 03 06.31	−31 17 21.4	18.54o		T08
230P	2021 09 06.449946	22 03 06.16	−31 17 22.8	18.38o		T08
230P	2021 09 06.455994	22 03 05.82	−31 17 25.3	18.53o		T08
230P	2021 09 06.487785	22 03 04.02	−31 17 40.6	18.73o		T08
230P	2021 09 09.544924	22 00 18.28	−31 41 01.8	18.6 T		900
230P	2021 09 09.551931	22 00 17.97	−31 41 04.5	18.5 T		900
230P	2021 09 11.13129	21 58 54.91	−31 51 59.8	18.8 G		KW94
230P	2021 09 11.13700	21 58 54.56	−31 52 02.1	18.7 G		KW94
230P	2021 09 11.14274	21 58 54.23	−31 52 04.5	18.7 G		KW94

241P/LINEAR

241P	2021 08 08.480670	05 54 56.32	+37 59 04.3	18.69r	I41
241P	2021 08 08.483130	05 54 56.73	+37 59 04.3	18.68r	I41
241P	2021 08 08.485590	05 54 57.18	+37 59 03.9	18.66r	I41
241P	2021 08 08.488060	05 54 57.63	+37 59 04.0	18.64r	I41
241P	2021 08 08.490520	05 54 58.09	+37 59 03.6	18.61r	I41
241P	2021 08 09.481200	05 57 55.27	+37 57 39.8	18.72r	I41
241P	2021 08 09.483670	05 57 55.70	+37 57 39.8	18.67r	I41
241P	2021 08 09.486120	05 57 56.13	+37 57 39.4	18.63r	I41
241P	2021 08 09.488590	05 57 56.58	+37 57 39.1	18.70r	I41
241P	2021 08 09.491041	05 57 57.02	+37 57 38.9	18.65r	I41
241P	2021 08 10.481740	06 00 53.58	+37 56 01.5	18.72r	I41
241P	2021 08 10.484200	06 00 53.98	+37 56 01.4	18.72r	I41
241P	2021 08 10.486670	06 00 54.43	+37 56 01.3	18.80r	I41
241P	2021 08 10.489120	06 00 54.88	+37 56 00.8	18.71r	I41
241P	2021 08 10.491590	06 00 55.32	+37 56 00.7	18.69r	I41
241P	2021 08 12.482810	06 06 48.12	+37 52 04.7	18.14r	I41
241P	2021 08 12.485280	06 06 48.54	+37 52 04.3	18.11r	I41
241P	2021 08 12.490220	06 06 49.43	+37 52 03.6	18.29r	I41
241P	2021 08 12.492700	06 06 49.86	+37 52 03.4	18.20r	I41
241P	2021 08 15.13874	06 14 34.12	+37 45 27.0	18.2 T	A77
241P	2021 08 15.14222	06 14 34.76	+37 45 26.7	17.7 T	A77
241P	2021 08 15.14569	06 14 35.39	+37 45 25.6	18.1 T	A77
241P	2021 08 16.487490	06 18 28.52	+37 41 29.8	18.54r	I41
241P	2021 08 16.490020	06 18 28.97	+37 41 29.3	18.56r	I41
241P	2021 08 16.492550	06 18 29.42	+37 41 29.0	18.52r	I41
241P	2021 08 16.495080	06 18 29.85	+37 41 28.4	18.60r	I41
241P	2021 08 16.497620	06 18 30.26	+37 41 28.2	18.57r	I41
241P	2021 08 18.486319	06 24 13.27	+37 34 55.6	18.56r	I41
241P	2021 08 18.488740	06 24 13.69	+37 34 55.3	18.53r	I41
241P	2021 08 18.493590	06 24 14.49	+37 34 54.2	18.57r	I41
241P	2021 08 18.496020	06 24 14.92	+37 34 53.8	18.54r	I41
241P	2021 08 27.469916	06 49 17.37	+36 55 31.6	17.29G	703
241P	2021 08 27.475609	06 49 18.26	+36 55 30.3	17.23G	703
241P	2021 08 27.481300	06 49 19.21	+36 55 28.7	17.15G	703
241P	2021 08 27.486989	06 49 20.09	+36 55 26.5	17.31G	703

241P	2021 08 28.74385	06 52 44.26	+36 48 42.3	17.3 T	K	Q11
241P	2021 08 28.74951	06 52 45.18	+36 48 40.5		K	Q11
241P	2021 08 28.75551	06 52 46.17	+36 48 38.8		K	Q11
241P	2021 08 31.19800	06 59 17.77	+36 34 47.8	18.5 T		09G40
241P	2021 08 31.21546	06 59 20.47	+36 34 41.6	18.3 T		09G40
241P	2021 09 02.09483	07 04 17.14	+36 23 20.4	17.5 T	K	215
241P	2021 09 02.09612	07 04 17.22	+36 23 20.4	17.4 T	K	215
241P	2021 09 02.09741	07 04 17.50	+36 23 19.2	17.7 T	K	215
241P	2021 09 05.605021	07 13 20.45	+36 00 41.7	18.23o		T08
241P	2021 09 05.610555	07 13 21.25	+36 00 39.5	18.23o		T08
241P	2021 09 05.627230	07 13 23.81	+36 00 32.6	18.34o		T08
241P	2021 09 08.459711	07 20 31.08	+35 40 53.7	17.88G		703
241P	2021 09 08.464650	07 20 31.89	+35 40 51.7	17.60G		703
241P	2021 09 08.469595	07 20 32.58	+35 40 47.9	17.22G		703

242P/Spahr

242P	2021 08 14.885248	19 52 19.90	+11 49 42.0	22.1 T	K	L59
242P	2021 08 14.911931	19 52 19.23	+11 49 21.0	22.0 T	K	L59

244P/Scotti

244P	2021 09 01.48039	02 32 54.999	+16 35 34.49	20.6 w		F51
244P	2021 09 01.49191	02 32 55.034	+16 35 35.24	20.3 w		F51
244P	2021 09 01.50345	02 32 55.036	+16 35 35.60	20.3 w		F51
244P	2021 09 05.07085	02 32 55.40	+16 37 49.9	19.8 T	K	215
244P	2021 09 05.07412	02 32 55.39	+16 37 50.0	19.8 T	K	215
244P	2021 09 05.07740	02 32 55.38	+16 37 50.0	19.7 T	K	215
244P	2021 09 08.26080	02 32 45.73	+16 39 07.7	19.7 T	K	X03
244P	2021 09 08.26970	02 32 45.70	+16 39 07.1	19.7 T	K	X03
244P	2021 09 08.27972	02 32 45.63	+16 39 06.6	19.8 T	K	X03
244P	2021 09 10.47233	02 32 33.552	+16 39 29.32	20.3 w		F52
244P	2021 09 10.48449	02 32 33.463	+16 39 29.44	20.2 w		F52
244P	2021 09 10.49665	02 32 33.386	+16 39 29.49	20.2 w		F52
244P	2021 09 10.50881	02 32 33.282	+16 39 29.55	20.2 w		F52
244P	2021 09 11.283646	02 32 27.86	+16 39 32.0	19.9 T		KW62
244P	2021 09 11.297616	02 32 27.76	+16 39 31.9	19.9 T		KW62
244P	2021 09 11.312234	02 32 27.63	+16 39 32.5	19.5 T		KW62
244P	2021 09 11.45850	02 32 26.628	+16 39 33.34	20.3 w		F51
244P	2021 09 11.47077	02 32 26.525	+16 39 33.42	20.4 w		F51
244P	2021 09 11.48307	02 32 26.424	+16 39 33.41	20.4 w		F51
244P	2021 09 11.49539	02 32 26.321	+16 39 33.48	20.2 w		F51
244P	2021 09 12.186142	02 32 20.51	+16 39 31.9	20.2 T		KW33
244P	2021 09 12.195059	02 32 20.35	+16 39 30.0	19.6 T		KW33
244P	2021 09 12.203911	02 32 20.35	+16 39 30.0	19.7 T		KW33

246P/NEAT

246P	2019 10 23.526250	11 52 15.07	+15 20 43.7	18.38r		I41
246P	2019 10 23.531250	11 52 15.43	+15 20 41.8	18.33r		I41
246P	2019 10 23.536260	11 52 15.78	+15 20 40.3	18.39r		I41
246P	2019 10 23.541260	11 52 16.12	+15 20 38.7	18.21r		I41
246P	2019 10 27.527700	11 56 51.58	+14 58 49.4	18.17r		I41
246P	2019 10 27.532560	11 56 51.97	+14 58 47.7	18.17r		I41
246P	2019 10 27.537420	11 56 52.30	+14 58 46.2	18.26r		I41
246P	2019 10 27.542291	11 56 52.59	+14 58 44.9	18.32r		I41
246P	2019 10 29.530880	11 59 09.09	+14 48 07.8	18.25r		I41
246P	2019 10 29.535780	11 59 09.43	+14 48 06.2	18.22r		I41
246P	2019 10 29.540670	11 59 09.74	+14 48 04.8	18.32r		I41
246P	2019 10 29.545580	11 59 10.11	+14 48 03.3	18.24r		I41
246P	2019 11 02.532440	12 03 41.32	+14 27 22.9	18.30r		I41
246P	2019 11 02.537270	12 03 41.65	+14 27 21.5	18.24r		I41
246P	2019 11 02.542090	12 03 41.97	+14 27 20.1	18.21r		I41
246P	2019 11 02.546920	12 03 42.30	+14 27 18.7	18.26r		I41
246P	2021 08 07.361825	18 46 33.28	−35 22 21.2	14.67o		T05
246P	2021 08 07.365026	18 46 33.20	−35 22 21.5	14.63o		T05
246P	2021 08 07.370984	18 46 33.04	−35 22 22.2	14.66o		T05
246P	2021 08 07.406558	18 46 32.13	−35 22 25.5	14.62o		T05
246P	2021 08 07.543414	18 46 29.02	−35 22 40.1	15.7 N		900
246P	2021 08 07.550420	18 46 28.85	−35 22 40.7	16.0 N		900
246P	2021 08 09.344680	18 45 49.02	−35 25 30.4	15.05c		T08
246P	2021 08 09.347906	18 45 48.96	−35 25 30.9	15.79c		T08
246P	2021 08 09.353432	18 45 48.82	−35 25 31.2	15.06c		T08
246P	2021 08 09.365425	18 45 48.54	−35 25 32.3	15.04c		T08
246P	2021 08 09.98979	18 45 36.08	−35 26 23.0	14.7 T	K	X03
246P	2021 08 09.99077	18 45 36.07	−35 26 23.1	14.7 T	K	X03
246P	2021 08 09.99144	18 45 36.02	−35 26 23.0	14.6 T		X03
246P	2021 08 10.01941	18 45 35.47	−35 26 26.3	14.9 T		X03
246P	2021 08 11.343846	18 45 10.21	−35 28 14.1	14.78o		T05
246P	2021 08 11.347539	18 45 10.15	−35 28 14.2	14.79o		T05
246P	2021 08 11.353947	18 45 10.01	−35 28 14.7	14.83o		T05
246P	2021 08 11.364007	18 45 09.81	−35 28 15.5	14.74o		T05
246P	2021 08 11.39475	18 45 09.40	−35 28 14.8	15.7 T	K	E94
246P	2021 08 11.40055	18 45 09.23	−35 28 14.9	15.7 T	K	E94
246P	2021 08 11.40459	18 45 09.16	−35 28 14.2	15.7 T	K	E94
246P	2021 08 11.41216	18 45 09.02	−35 28 15.2	15.8 T	K	E94
246P	2021 08 13.347278	18 44 37.30	−35 30 31.2	14.96c		T08
246P	2021 08 13.350503	18 44 37.25	−35 30 31.6	15.01c		T08
246P	2021 08 13.356029	18 44 37.16	−35 30 31.9	15.09c		T08
246P	2021 08 13.368491	18 44 36.98	−35 30 32.9	15.86c		T08
246P	2021 08 15.327786	18 44 10.90	−35 32 22.6	14.78o		T05
246P	2021 08 15.330987	18 44 10.85	−35 32 22.7	14.82o		T05
246P	2021 08 15.336475	18 44 10.77	−35 32 23.0	14.86o		T05
246P	2021 08 15.371617	18 44 10.29	−35 32 24.7	14.78o		T05
246P	2021 08 17.275039	18 43 50.89	−35 33 48.8	14.89o		T08
246P	2021 08 17.276879	18 43 50.88	−35 33 48.8	14.77o		T08
246P	2021 08 17.282421	18 43 50.81	−35 33 49.1	14.84o		T08
246P	2021 08 17.287496	18 43 50.77	−35 33 49.2	14.83o		T08
246P	2021 09 06.321762	18 46 04.68	−35 30 18.3	15.10o		T08
246P	2021 09 06.324986	18 46 04.74	−35 30 18.0	15.03o		T08
246P	2021 09 06.330998	18 46 04.87	−35 30 17.4	14.97o		T08
246P	2021 09 06.341134	18 46 05.07	−35 30 16.9	14.91o		T08
246P	2021 09 08.295217	18 46 50.64	−35 28 27.8	15.36c		T05
246P	2021 09 08.296131	18 46 50.66	−35 28 27.6	15.51c		T05
246P	2021 09 08.298419	18 46 50.72	−35 28 27.6	15.38c		T05
246P	2021 09 08.299333	18 46 50.77	−35 28 27.2	15.68c		T05
246P	2021 09 08.303919	18 46 50.84	−35 28 27.1	15.43c		T05
246P	2021 09 08.304834	18 46 50.87	−35 28 27.0	15.54c		T05
246P	2021 09 08.313999	18 46 51.07	−35 28 26.3	15.40c		T05

246P	2021 09 09.47526	18 47 20.82	−35 27 12.3	18 R		C51
Geocentric position (km)	+ 2124.3535	− 5171.3747	− 3971.4668			
246P	2021 09 09.67187	18 47 26.03	−35 27 00.0			C51
Geocentric position (km)	+ 2166.9897	− 5370.2002	− 3673.1249			
246P	2021 09 10.06407	18 47 36.60	−35 26 34.5			C51
Geocentric position (km)	+ 2206.6063	− 5386.1711	− 3625.8283			
246P	2021 09 10.19472	18 47 40.13	−35 26 25.8			C51
Geocentric position (km)	+ 2216.3048	− 5361.3673	− 3656.5790			
246P	2021 09 10.32537	18 47 43.71	−35 26 17.1			C51
Geocentric position (km)	+ 2225.8170	− 5336.2143	− 3687.4966			
246P	2021 09 10.32549	18 47 43.76	−35 26 17.2			C51
Geocentric position (km)	+ 2231.3600	− 5381.7038	− 3617.3050			
246P	2021 09 12.297151	18 48 40.79	−35 24 03.2	15.15o		T05
246P	2021 09 12.300357	18 48 40.89	−35 24 02.9	15.88o		T05
246P	2021 09 12.305873	18 48 41.03	−35 24 02.4	15.91o		T05
246P	2021 09 12.316418	18 48 41.33	−35 24 01.7	15.12o		T05
246P	2021 09 14.279700	18 49 43.55	−35 21 32.7	14.94o		T08
246P	2021 09 14.282463	18 49 43.65	−35 21 32.4	15.05o		T08
246P	2021 09 14.290295	18 49 43.88	−35 21 31.7	14.96o		T08
246P	2021 09 14.303652	18 49 44.32	−35 21 30.7	15.11o		T08

249P/LINEAR

249P	2020 04 16.183660	10 03 30.36	−05 25 03.1	18.46g		I41
249P	2020 04 16.185910	10 03 29.95	−05 24 59.6	18.41g		I41
249P	2020 04 16.189580	10 03 29.27	−05 24 53.9	17.96r		I41
249P	2020 04 16.190490	10 03 29.10	−05 24 52.5	17.95r		I41
249P	2020 08 10.492920	06 01 36.63	+25 30 57.8	19.05r		I41
249P	2020 08 10.497940	06 01 37.24	+25 30 56.5	19.09r		I41
249P	2020 08 10.502959	06 01 37.87	+25 30 55.0	18.99r		I41
249P	2020 08 12.489730	06 05 37.22	+25 20 30.5	19.11r		I41
249P	2020 08 12.494660	06 05 37.80	+25 20 29.1	19.16r		I41
249P	2020 08 12.499590	06 05 38.39	+25 20 27.6	18.99r		I41
249P	2020 08 12.504541	06 05 38.97	+25 20 25.9	19.28r		I41
249P	2021 01 07.211880	05 12 17.40	+16 43 35.4	20.31r		I41
249P	2021 01 07.301110	05 12 11.57	+16 43 32.0	20.93g		I41
249P	2021 01 09.236220	05 10 12.19	+16 42 23.6	20.58r		I41
249P	2021 01 09.257520	05 10 10.87	+16 42 22.3	20.63r		I41

252P/LINEAR

252P	2021 08 09.37227	11 42 00.09	+04 13 42.3	14.3 T		Q38
252P	2021 08 09.37626	11 42 00.75	+04 13 40.5	12.4 T		Q38
252P	2021 08 09.37947	11 42 01.84	+04 13 35.4	15.1 T		Q38
252P	2021 08 09.38306	11 42 02.95	+04 13 33.4	14.9 T		Q38
252P	2021 08 09.38454	11 42 03.30	+04 13 32.4	14.7 T		Q38
252P	2021 08 09.38734	11 42 04.27	+04 13 27.8	12.1 T		Q38
252P	2021 08 09.38814	11 42 04.51	+04 13 25.9	14.8 T		Q38
252P	2021 08 09.39053	11 42 04.48	+04 13 23.1	11.1 T		Q38
252P	2021 08 09.97473	11 44 36.24	+04 01 52.1	15.4 T		14W88
252P	2021 08 09.98328	11 44 38.45	+04 01 42.0	15.7 T		14W88
252P	2021 08 10.35876	11 46 15.74	+03 54 16.5			01Q62
252P	2021 08 10.36146	11 46 16.42	+03 54 13.5			01Q62
252P	2021 08 10.36416	11 46 17.10	+03 54 10.6			01Q62
252P	2021 08 10.36685	11 46 17.79	+03 54 06.9	13.1 T		01Q62
252P	2021 08 10.44265	11 46 37.31	+03 52 30.7	12.5 T		349
252P	2021 08 10.44441	11 46 37.85	+03 52 29.7			349
252P	2021 08 10.97145	11 48 54.14	+03 42 09.6	17.0 T		03W88
252P	2021 08 10.98003	11 48 56.34	+03 41 59.4	16.8 T		03W88
252P	2021 08 15.37587	12 07 42.40	+02 14 56.2	15.9 T		Q38
252P	2021 08 15.37791	12 07 42.91	+02 14 54.9	16.2 T		Q38
252P	2021 08 15.37998	12 07 43.62	+02 14 50.8	15.9 T		Q38
252P	2021 08 15.38413	12 07 44.55	+02 14 48.2	15.4 T		Q38
252P	2021 08 15.38620	12 07 44.94	+02 14 44.0	14.1 T		Q38
252P	2021 08 15.38744	12 07 45.41	+02 14 42.8	16.3 T		Q38
252P	2021 08 16.36285	12 11 52.71	+01 55 24.0			01Q62
252P	2021 08 16.36552	12 11 53.34	+01 55 21.1			01Q62
252P	2021 08 16.36819	12 11 54.03	+01 55 17.9	13.7 T		01Q62
252P	2021 08 18.43780	12 20 35.55	+01 14 21.7			349
252P	2021 08 18.43976	12 20 36.00	+01 14 19.9	12.8 T		349
252P	2021 08 19.716193	12 25 55.92	+00 49 22.6			C53
Geocentric position (km)	− 2220.5852	− 3541.8580	− 5823.6257			
252P	2021 08 19.718625	12 25 56.54	+00 49 17.6			C53
Geocentric position (km)	− 1856.1946	− 2215.3894	− 6561.6268			
252P	2021 08 19.722678	12 25 57.60	+00 49 13.7			C53
Geocentric position (km)	− 1063.9901	+ 195.1780	− 7088.8571			
252P	2021 08 25.37394	12 49 09.40	−01 00 23.5			01Q62
252P	2021 08 25.37752	12 49 10.28	−01 00 27.2	14.6 G		01Q62
252P	2021 08 28.97647	13 03 37.906	−02 08 30.28	19.4 r		23 807
252P	2021 08 28.97845	13 03 38.390	−02 08 32.03	19.5 r		23 807
252P	2021 08 29.39662	13 05 16.75	−02 16 07.0	15.6 T	K	Q38
252P	2021 08 29.39803	13 05 16.94	−02 16 09.6	16.1 T	K	Q38
252P	2021 08 29.40007	13 05 17.31	−02 16 12.8	15.7 T	K	Q38
252P	2021 08 29.97360	13 07 35.590	−02 27 02.77	19.9 r		23 807
252P	2021 08 29.97878	13 07 36.858	−02 27 08.25	19.9 r		23 807
252P	2021 08 29.97940	13 07 37.013	−02 27 08.60	20.0 r		23 807

254P/McNaught

254P	2021 08 10.602355	04 42 20.93	−08 43 24.3	17.67c		T08
254P	2021 08 10.607880	04 42 21.24	−08 43 25.5	17.47c		T08
254P	2021 08 10.625976	04 42 22.23	−08 43 29.0	17.57c		T08
254P	2021 08 10.631964	04 42 22.54	−08 43 29.7	17.60c		T08
254P	2021 08 12.602740	04 44 10.62	−08 50 12.7	17.07o		T05
254P	2021 08 12.619760	04 44 11.53	−08 50 16.2	17.07o		T05
254P	2021 08 12.623894	04 44 11.78	−08 50 17.1	17.27o		T05
254P	2021 08 12.633509	04 44 12.25	−08 50 18.9	17.34o		T05
254P	2021 08 18.578588	04 49 21.46	−09 12 35.8	17.52c		T08
254P	2021 08 18.581355	04 49 21.60	−09 12 36.7	17.90c		T08
254P	2021 08 18.587803	04 49 21.95	−09 12 38.0	17.37c		T08
254P	2021 08 18.592068	04 49 22.14	−09 12 38.8	17.46c		T08
254P	2021 08 18.602820	04 49 22.66	−09 12 42.1	17.62c		T08
254P	2021 08 21.591911	04 51 48.22	−09 25 00.8	17.03o		T08
254P	2021 08 21.595139	04 51 48.34	−09 25 01.2	17.03o		T08
254P	2021 08 21.612699	04 51 49.16	−09 25 05.9	17.15o		T08
254P	2021 08 22.602842	04 52 35.86	−09 29 20.0	17.14o		T08
254P	2021 08 22.618541	04 52 36.60	−09 29 24.1	17.56o		T08
254P	2021 08 22.624078	04 52 36.85	−09 29 25.7	17.45o		T08
254P	2021 08 22.630066	04 52 37.11	−09 29 27.0	17.20o		T08
254P	2021 08 24.602930	04 54 07.83	−09 38 07.4	17.62o		T05

254P	2021 08 24.622824	04 54 08.69	−09 38 12.9	17.19o	T05
254P	2021 08 24.630198	04 54 09.01	−09 38 14.9	17.28o	T05
254P	2021 08 26.566678	04 55 34.97	−09 47 02.9	17.52o	T08
254P	2021 08 26.570829	04 55 35.16	−09 47 04.5	17.74o	T08
254P	2021 08 26.577281	04 55 35.43	−09 47 06.3	17.29o	T08
254P	2021 08 26.590625	04 55 35.99	−09 47 10.2	17.21o	T08
254P	2021 08 28.576047	04 57 00.81	−09 56 29.4	16.90o	T05
254P	2021 08 28.579722	04 57 00.98	−09 56 30.2	17.00o	T05
254P	2021 08 28.586363	04 57 01.23	−09 56 32.1	17.04o	T05
254P	2021 08 28.600099	04 57 01.79	−09 56 36.1	17.08o	T05
254P	2021 09 03.599351	05 00 57.32	−10 26 26.7	17.45o	T08
254P	2021 09 03.603036	05 00 57.46	−10 26 27.4	17.08o	T08
254P	2021 09 03.621601	05 00 58.10	−10 26 33.4	17.28o	T08
254P	2021 09 03.631748	05 00 58.47	−10 26 36.9	17.14o	T08
254P	2021 09 05.11079	05 01 51.57	−10 34 20.3	17.3 T	K 215
254P	2021 09 05.11272	05 01 51.64	−10 34 20.9	17.5 T	K 215
254P	2021 09 05.11466	05 01 51.71	−10 34 21.6	17.4 T	K 215
254P	2021 09 05.583129	05 02 08.08	−10 36 49.2	17.34c	T05
254P	2021 09 05.588623	05 02 08.28	−10 36 51.0	17.42c	T05
254P	2021 09 05.591839	05 02 08.41	−10 36 51.8	17.32c	T05
254P	2021 09 05.614878	05 02 09.16	−10 36 59.2	17.84c	T05
254P	2021 09 06.31448	05 02 33.05	−10 40 40.2	20 R	C51
Geocentric position (km)		− 1438.0650	+ 6521.0597	− 1546.3658	
254P	2021 09 06.57591	05 02 41.95	−10 42 06.0		C51
Geocentric position (km)		− 1465.6616	+ 6512.8299	− 1555.1379	
254P	2021 09 06.64136	05 02 44.15	−10 42 26.3		C51
Geocentric position (km)		− 1461.5398	+ 6498.4954	− 1617.9453	
254P	2021 09 06.90266	05 02 53.05	−10 43 50.1		C51
Geocentric position (km)		− 1503.8306	+ 6506.4137	− 1545.4640	
254P	2021 09 07.29486	05 03 06.08	−10 45 56.2		C51
Geocentric position (km)		− 1537.6741	+ 6485.5850	− 1598.9718	
254P	2021 09 07.608725	05 03 16.48	−10 47 39.1	16.98o	T08
254P	2021 09 07.625920	05 03 17.07	−10 47 44.8	17.29o	T08
254P	2021 09 07.631270	05 03 17.22	−10 47 46.7	17.06o	T08
254P	2021 09 07.637591	05 03 17.46	−10 47 48.7	17.02o	T08
254P	2021 09 09.18714	05 04 07.15	−10 56 15.1	17.5 N	J22
254P	2021 09 09.19096	05 04 07.25	−10 56 16.1	17.5 N	J22
254P	2021 09 09.19476	05 04 07.34	−10 56 17.4	17.5 N	J22
254P	2021 09 14.593418	05 06 41.80	−11 26 37.4	16.77o	T08
254P	2021 09 14.596647	05 06 41.93	−11 26 38.5	17.08o	T08
254P	2021 09 14.602649	05 06 42.08	−11 26 40.5	17.36o	T08
254P	2021 09 14.621545	05 06 42.54	−11 26 46.6	17.42o	T08
254P	2021 09 15.586694	05 07 07.117	−11 32 19.64	17.99w	F52
254P	2021 09 15.598270	05 07 07.398	−11 32 23.73	17.90w	F52
254P	2021 09 16.18535	05 07 21.81	−11 35 47.5	17.4 N	J22
254P	2021 09 16.18911	05 07 21.92	−11 35 48.7	17.4 N	J22
254P	2021 09 16.19291	05 07 22.01	−11 35 49.7	17.4 N	J22
254P	2021 09 17.621897	05 07 55.56	−11 44 08.4	16.95o	T05
254P	2021 09 17.625162	05 07 55.65	−11 44 09.5	17.00o	T05
254P	2021 09 17.629339	05 07 55.74	−11 44 10.9	17.04o	T05

257P/Catalina

257P	2021 02 05.096220	23 56 49.56	+03 02 37.3	19.62r	I41
257P	2021 02 05.098620	23 56 49.82	+03 02 38.8	19.46r	I41
257P	2021 02 05.101010	23 56 50.12	+03 02 39.5	19.56r	I41
257P	2021 02 05.103410	23 56 50.36	+03 02 40.5	19.35r	I41
257P	2021 02 05.105810	23 56 50.61	+03 02 41.8	19.28r	I41
257P	2021 02 06.099630	23 58 41.65	+03 08 58.0	19.74r	I41
257P	2021 02 06.101990	23 58 41.87	+03 08 59.4	19.57r	I41
257P	2021 02 06.104340	23 58 42.09	+03 09 00.6	19.40r	I41
257P	2021 02 06.106700	23 58 42.41	+03 09 01.4	19.63r	I41
257P	2021 02 08.106600	00 02 25.57	+03 21 47.2	19.49r	I41
257P	2021 02 08.108970	00 02 25.86	+03 21 47.2	19.52r	I41
257P	2021 02 09.101600	00 04 16.54	+03 28 10.2	19.76r	I41
257P	2021 02 09.104030	00 04 16.81	+03 28 11.7	19.42r	I41
257P	2021 02 09.106459	00 04 17.05	+03 28 12.6	19.52r	I41
257P	2021 02 09.108890	00 04 17.34	+03 28 13.6	19.66r	I41
257P	2021 02 09.111330	00 04 17.62	+03 28 14.6	19.53r	I41
257P	2021 09 02.07668	05 17 44.28	+11 36 21.4	19.2 T	K 215
257P	2021 09 02.07874	05 17 44.37	+11 36 21.0	19.5 T	K 215
257P	2021 09 02.08081	05 17 44.43	+11 36 21.2	19.6 T	K 215

274P/Tombaugh-Tenagra

274P	2021 08 19.61253	05 05 02.319	+16 45 08.69	21.9 w	F51
274P	2021 08 19.61601	05 05 02.581	+16 45 09.17	21.5 w	F51
274P	2021 08 19.61950	05 05 02.844	+16 45 09.94	21.5 w	F51
274P	2021 08 19.62298	05 05 03.117	+16 45 10.64	21.4 w	F51

278P/McNaught

278P	2021 08 31.544529	00 04 10.085	−03 31 42.75	22.05w	F51
278P	2021 08 31.549521	00 04 09.854	−03 31 43.68	22.20w	F51
278P	2021 08 31.554512	00 04 09.638	−03 31 44.79	21.87w	F51
278P	2021 08 31.559515	00 04 09.413	−03 31 45.89	22.11w	F51
278P	2021 09 09.476714	23 57 27.498	−04 02 55.77	21.55w	F51
278P	2021 09 09.499781	23 57 26.355	−04 03 00.96	21.85w	F51
278P	2021 09 09.510501	23 57 25.847	−04 03 03.15	21.76w	F51
278P	2021 09 09.521222	23 57 25.349	−04 03 05.38	21.84w	F51
278P	2021 09 11.214475	23 56 05.79	−04 09 07.9	21.52G	G96
278P	2021 09 11.219719	23 56 05.47	−04 09 09.5	20.93G	G96
278P	2021 09 11.224964	23 56 05.19	−04 09 10.1	21.15G	G96
278P	2021 09 11.230240	23 56 04.98	−04 09 11.3	21.61G	G96

284P/McNaught

284P	2021 08 06.93342	23 23 42.87	−07 40 50.1	15.7 T	A77
284P	2021 08 06.93905	23 23 42.85	−07 40 53.0	15.8 T	A77
284P	2021 08 06.94401	23 23 42.85	−07 40 55.8	15.9 T	A77
284P	2021 08 08.455073	23 23 40.96	−07 53 31.3	16.13o	T05
284P	2021 08 08.457827	23 23 40.94	−07 53 32.8	15.99o	T05
284P	2021 08 08.464259	23 23 40.94	−07 53 35.9	16.67o	T05
284P	2021 08 08.476211	23 23 40.88	−07 53 42.0	16.65o	T05
284P	2021 08 10.475552	23 23 33.48	−08 11 04.5	16.40c	T08
284P	2021 08 10.478781	23 23 33.45	−08 11 06.2	16.43c	T08
284P	2021 08 10.492176	23 23 33.36	−08 11 13.3	16.38c	T08
284P	2021 08 10.497298	23 23 33.35	−08 11 15.8	16.97c	T08
284P	2021 08 11.94903	23 23 24.67	−08 24 21.8	16.3 T	K 215

284P	2021 08 11.95032	23 23 24.66	−08 24 22.5	16.3 T	K 215	
284P	2021 08 11.95161	23 23 24.62	−08 24 23.3	16.2 T	K 215	
284P	2021 08 12.96441	23 23 16.83	−08 33 41.9	16.3 T	A71	
284P	2021 08 12.96737	23 23 16.78	−08 33 43.5	16.3 T	A71	
284P	2021 08 12.97035	23 23 16.74	−08 33 45.4	16.3 T	A71	
284P	2021 08 12.97917	23 23 16.68	−08 33 50.2	16.3 T	A71	
284P	2021 08 14.05383	23 23 06.81	−08 43 55.2	15.9 T	A77	
284P	2021 08 14.06032	23 23 06.75	−08 43 58.9	16.0 T	A77	
284P	2021 08 14.06748	23 23 06.66	−08 44 03.1	16.3 T	A77	
284P	2021 08 14.456738	23 23 02.83	−08 47 42.9	16.05c	T08	
284P	2021 08 14.459514	23 23 02.77	−08 47 44.4	16.03c	T08	
284P	2021 08 14.464672	23 23 02.71	−08 47 47.4	16.02c	T08	
284P	2021 08 14.493305	23 23 02.36	−08 48 03.6	16.08c	T08	
284P	2021 08 15.474493	23 22 51.76	−08 57 28.2	16.52o	T05	
284P	2021 08 15.476325	23 22 51.72	−08 57 29.3	16.55o	T05	
284P	2021 08 15.486447	23 22 51.55	−08 57 35.3	15.94o	T05	
284P	2021 08 15.495053	23 22 51.44	−08 57 40.3	15.89o	T05	
284P	2021 08 16.454605	23 22 39.90	−09 07 00.6	16.45o	T05	
284P	2021 08 16.460120	23 22 39.81	−09 07 03.9	16.48o	T05	
284P	2021 08 16.463812	23 22 39.74	−09 07 06.1	16.39o	T05	
284P	2021 08 16.492445	23 22 39.29	−09 07 22.9	15.82o	T05	
284P	2021 08 17.08004	23 22 31.48	−09 13 12.1	15.7 T	A77	
284P	2021 08 17.09046	23 22 31.29	−09 13 18.1	16.8 T	A77	
284P	2021 08 17.09972	23 22 31.16	−09 13 24.5	15.7 T	A77	
284P	2021 08 19.424029	23 21 56.95	−09 36 39.4	16.57o	T05	
284P	2021 08 19.427236	23 21 56.89	−09 36 41.3	16.48o	T05	
284P	2021 08 19.429978	23 21 56.82	−09 36 43.0	15.85o	T05	
284P	2021 08 19.436843	23 21 56.69	−09 36 47.2	15.65o	T05	
284P	2021 08 19.58899	23 21 54.01	−09 38 12.1	15.6 T	K E94	
284P	2021 08 19.59910	23 21 53.81	−09 38 19.0	15.7 T	K E94	
284P	2021 08 19.60919	23 21 53.60	−09 38 25.8	15.6 T	K E94	
284P	2021 08 19.61929	23 21 53.45	−09 38 31.8	15.6 T	K E94	
284P	2021 08 27.538828	23 19 11.831	−11 01 47.83	16.73i	F51	
284P	2021 08 27.550304	23 19 11.527	−11 01 55.24	16.78i	F51	
284P	2021 08 27.573315	23 19 10.921	−11 02 09.92	16.64i	F51	
284P	2021 08 28.56609	23 18 47.07	−11 12 51.2		D95	
284P	2021 08 28.57321	23 18 46.86	−11 12 55.6		D95	
284P	2021 08 28.57749	23 18 46.73	−11 12 58.4	14.9 T	D95	
284P	2021 08 30.17119	23 18 05.99	−11 30 06.2	16.0 N	J22	
284P	2021 08 30.17493	23 18 05.89	−11 30 08.4	16.0 N	J22	
284P	2021 08 30.17962	23 18 05.75	−11 30 11.7	16.0 N	J22	
284P	2021 08 30.67486	23 17 53.00	−11 35 31.9		Q11	
284P	2021 08 30.68264	23 17 52.80	−11 35 37.1	14.9 T	Q11	
284P	2021 08 30.69183	23 17 52.53	−11 35 43.0		Q11	
284P	2021 08 31.045255	23 17 43.16	−11 39 31.7	15.6 T	104	
284P	2021 08 31.074896	23 17 42.33	−11 39 50.8	15.6 T	104	
284P	2021 08 31.105938	23 17 41.45	−11 40 10.8	15.6 T	104	
284P	2021 08 31.469201	23 17 31.997	−11 44 03.15	17.05w	F51	
284P	2021 08 31.481529	23 17 31.651	−11 44 11.27	17.01w	F51	
284P	2021 08 31.493801	23 17 31.282	−11 44 19.02	17.10w	F51	
284P	2021 09 01.410252	23 17 06.747	−11 54 09.90	16.88w	F51	
284P	2021 09 01.438869	23 17 05.892	−11 54 28.37	17.17w	F51	
284P	2021 09 01.453588	23 17 05.452	−11 54 37.81	17.07w	F51	
284P	2021 09 03.321178	23 16 13.54	−12 14 37.8	15.15G	703	
284P	2021 09 03.326508	23 16 13.36	−12 14 41.3	15.09G	703	
284P	2021 09 03.332507	23 16 13.20	−12 14 45.0	15.13G	703	
284P	2021 09 03.338576	23 16 13.01	−12 14 48.9	15.11G	703	
284P	2021 09 04.94742	23 15 27.44	−12 31 54.5	15.7 N	Z55	
284P	2021 09 04.94835	23 15 27.40	−12 31 55.1	15.6 N	Z55	
284P	2021 09 04.94921	23 15 27.38	−12 31 55.5	15.6 N	Z55	
284P	2021 09 04.95100	23 15 27.34	−12 31 56.8	15.6 N	Z55	
284P	2021 09 05.06721	23 15 24.12	−12 33 02.7	16.2 T	23W88	
284P	2021 09 05.07682	23 15 23.80	−12 33 08.6	15.6 T	23W88	
284P	2021 09 05.08824	23 15 23.47	−12 33 15.9	15.9 T	23W88	
284P	2021 09 05.09775	23 15 23.20	−12 33 22.4	16.6 T	23W88	
284P	2021 09 05.10892	23 15 22.85	−12 33 29.2	16.0 T	23W88	
284P	2021 09 05.94196	23 14 58.56	−12 42 24.6	15.2 T	B96	
284P	2021 09 05.94689	23 14 58.41	−12 42 28.4	15.4 T	B96	
284P	2021 09 05.95182	23 14 58.29	−12 42 31.2	15.4 T	B96	
284P	2021 09 07.239083	23 14 20.72	−12 55 55.1	15.13G	703	
284P	2021 09 07.244308	23 14 20.55	−12 55 58.5	15.13G	703	
284P	2021 09 07.249537	23 14 20.38	−12 56 01.8	15.11G	703	
284P	2021 09 07.254762	23 14 20.20	−12 56 05.2	15.13G	703	
284P	2021 09 07.437677	23 14 14.77	−12 57 58.2	15.90o	T08	
284P	2021 09 07.448832	23 14 14.41	−12 58 05.3	15.88o	T08	
284P	2021 09 07.452263	23 14 14.30	−12 58 07.4	15.88o	T08	
284P	2021 09 07.458040	23 14 14.10	−12 58 11.1	15.33o	T08	
284P	2021 09 07.94145	23 14 00.03	−13 03 13.6	15.6 T	C23	
284P	2021 09 07.94578	23 13 59.90	−13 03 16.0	15.8 T	C23	
284P	2021 09 07.95011	23 13 59.76	−13 03 18.8	15.7 T	C23	
284P	2021 09 09.256476	23 13 21.17	−13 16 41.2	15.00G	703	
284P	2021 09 09.261588	23 13 21.07	−13 16 44.5	15.03G	703	
284P	2021 09 09.266699	23 13 20.90	−13 16 47.5	15.05G	703	
284P	2021 09 09.271807	23 13 20.74	−13 16 50.7	15.03G	703	
284P	2021 09 09.430830	23 13 16.014	−13 18 26.31	16.72w	F51	
284P	2021 09 09.442078	23 13 15.660	−13 18 33.19	16.72w	F51	
284P	2021 09 09.458488	23 13 15.132	−13 18 43.13	16.68w	F51	
284P	2021 09 09.469709	23 13 14.756	−13 18 50.10	16.74w	F51	
284P	2021 09 09.594201	23 13 11.24	−13 20 06.9	16.2 N	900	
284P	2021 09 09.600856	23 13 11.03	−13 20 10.9	16.3 N	900	
284P	2021 09 09.62242	23 13 10.35	−13 20 24.1	14.8 T	Q11	
284P	2021 09 09.63233	23 13 10.02	−13 20 30.2		Q11	
284P	2021 09 09.64009	23 13 09.78	−13 20 34.8		Q11	
284P	2021 09 10.44431	23 12 46.37	−13 28 33.8	15.3 T	Q38	
284P	2021 09 10.44626	23 12 46.26	−13 28 34.7	15.4 T	Q38	
284P	2021 09 10.44822	23 12 46.23	−13 28 36.1	15.3 T	Q38	
284P	2021 09 10.44979	23 12 46.19	−13 28 37.1	15.3 T	Q38	
284P	2021 09 10.86341	23 12 33.76	−13 32 54.9	15.9 T	L79	
284P	2021 09 10.86618	23 12 33.63	−13 32 56.2	16.3 T	L79	
284P	2021 09 10.86875	23 12 33.54	−13 32 57.9	16.3 T	L79	
284P	2021 09 10.95238	23 12 31.12	−13 33 47.0	15.5 N	J59	
284P	2021 09 10.95588	23 12 31.01	−13 33 49.2	15.5 N	J59	
284P	2021 09 10.96286	23 12 30.80	−13 33 53.2	15.5 N	J59	
284P	2021 09 11.238436	23 12 22.71	−13 36 36.8	15.20G	703	
284P	2021 09 11.243742	23 12 22.54	−13 36 40.2	15.23G	703	
284P	2021 09 11.249047	23 12 22.38	−13 36 43.3	15.22G	703	

284P	2021 09 11.254357	23 12 22.21	−13 36 46.3	15.21G	703
284P	2021 09 11.62065	23 12 11.34	−13 40 23.0	14.0 R	D29
284P	2021 09 11.63479	23 12 10.90	−13 40 31.6	14.0 R	D29
284P	2021 09 11.64893	23 12 10.43	−13 40 39.9	13.9 R	D29
284P	2021 09 13.238339	23 11 24.05	−13 56 09.8	15.38G	G96
284P	2021 09 13.257626	23 11 23.45	−13 56 22.0	15.33G	G96
284P	2021 09 13.262368	23 11 23.30	−13 56 24.8	15.31G	G96
284P	2021 09 13.267086	23 11 23.15	−13 56 27.5	15.32G	G96
284P	2021 09 13.383787	23 11 19.77	−13 57 33.8	15.59c	T05
284P	2021 09 13.385635	23 11 19.70	−13 57 34.7	15.52c	T05
284P	2021 09 13.389321	23 11 19.59	−13 57 36.9	15.60c	T05
284P	2021 09 13.395743	23 11 19.38	−13 57 40.6	15.69c	T05
284P	2021 09 14.234302	23 10 55.11	−14 05 41.8	15.12G	703
284P	2021 09 14.238195	23 10 55.02	−14 05 44.1	15.36G	G96
284P	2021 09 14.239606	23 10 54.94	−14 05 44.9	15.14G	703
284P	2021 09 14.243488	23 10 54.85	−14 05 47.0	15.36G	G96
284P	2021 09 14.244911	23 10 54.78	−14 05 47.9	15.14G	703
284P	2021 09 14.248779	23 10 54.69	−14 05 50.1	15.35G	G96
284P	2021 09 14.250214	23 10 54.61	−14 05 50.9	15.16G	703
284P	2021 09 14.254071	23 10 54.51	−14 05 53.0	15.35G	G96
284P	2021 09 15.99157	23 10 04.59	−14 22 06.2	15.5 T	C23
284P	2021 09 15.99590	23 10 04.50	−14 22 08.4	15.9 T	C23
284P	2021 09 16.00023	23 10 04.38	−14 22 11.4	15.9 T	C23

289P/Blanpain

289P	2020 02 17.235959	09 28 44.57	+40 54 48.9	19.93g	I41
289P	2020 02 17.247560	09 28 45.17	+40 54 24.4	19.89g	I41
289P	2020 02 17.248480	09 28 45.24	+40 54 22.3	19.86g	I41
289P	2020 02 17.306100	09 28 48.18	+40 52 19.6	19.49r	I41
289P	2020 02 17.308030	09 28 48.29	+40 52 15.5	19.40r	I41
289P	2020 02 24.215650	09 35 07.01	+37 09 26.4	19.83r	I41
289P	2020 02 24.221220	09 35 07.22	+37 09 16.7	19.65r	I41
289P	2020 02 24.260681	09 35 08.73	+37 08 08.8	20.37g	I41
289P	2020 02 24.261600	09 35 08.76	+37 08 07.3	20.36g	I41

293P/Spacewatch

293P	2021 01 16.383280	09 51 36.25	+26 20 05.4	18.60i	I41
293P	2021 01 16.471100	09 51 34.51	+26 20 49.6	19.45g	I41
293P	2021 01 18.416390	09 50 57.69	+26 37 15.3	18.94r	I41
293P	2021 01 18.424050	09 50 57.52	+26 37 19.3	19.59g	I41
293P	2021 02 04.279209	09 41 59.19	+28 49 44.6	19.09g	I41
293P	2021 02 04.288750	09 41 58.75	+28 49 48.2	19.04g	I41
293P	2021 02 04.302580	09 41 58.17	+28 49 53.9	18.67r	I41
293P	2021 02 04.400530	09 41 53.98	+28 50 33.5	18.72r	I41
293P	2021 02 04.430270	09 41 52.68	+28 50 44.5	19.25g	I41
293P	2021 02 12.257200	09 36 30.62	+29 36 45.1	18.89r	I41
293P	2021 02 12.280090	09 36 29.60	+29 36 52.1	18.63i	I41
293P	2021 02 12.319940	09 36 27.85	+29 37 03.9	19.55g	I41
293P	2021 02 12.407291	09 36 23.97	+29 37 29.1	18.74r	I41

313P/Gibbs

313P	2019 08 08.215050	18 51 26.11	−25 04 56.8	19.18r	I41
313P	2019 08 08.240520	18 51 25.24	−25 05 02.9	19.16r	I41
313P	2019 08 08.242431	18 51 25.15	−25 05 03.5	19.03r	I41
313P	2019 08 08.245150	18 51 25.06	−25 05 04.1	19.10r	I41
313P	2019 08 22.175959	18 46 24.39	−25 54 21.3	19.43r	I41
313P	2019 08 22.202740	18 46 24.07	−25 54 26.2	19.42r	I41
313P	2019 08 22.210470	18 46 23.97	−25 54 27.6	19.40r	I41
313P	2019 08 22.214860	18 46 23.90	−25 54 28.4	19.51r	I41

324P/La Sagra

324P	2021 08 10.990309	23 48 14.46	+30 43 45.4	21.0 T	K L59
324P	2021 08 10.992524	23 48 14.34	+30 43 46.5	20.7 T	K L59
324P	2021 08 11.016171	23 48 13.58	+30 43 56.8	20.8 T	K L59
324P	2021 08 12.08183	23 47 52.71	+30 52 38.8	20.3 T	K A77
324P	2021 08 12.10518	23 47 52.15	+30 52 50.0	20.3 T	K A77
324P	2021 08 12.12890	23 47 51.54	+30 52 59.9	20.2 T	K A77
324P	2021 08 12.934366	23 47 34.73	+30 59 18.5	20.1 T	K L59
324P	2021 08 12.977959	23 47 33.76	+30 59 41.1	20.3 T	K L59
324P	2021 08 12.978582	23 47 33.82	+30 59 41.6		K L59
324P	2021 08 13.022176	23 47 32.81	+31 00 02.9	21.0 T	K L59
324P	2021 08 19.07801	23 44 54.06	+31 42 20.5	21.1 N	K A77
324P	2021 08 19.08179	23 44 53.95	+31 42 21.6	21.3 N	K A77
324P	2021 08 31.953585	23 36 44.51	+32 36 51.8		K L59
324P	2021 08 31.975349	23 36 43.59	+32 36 56.4		K L59
324P	2021 09 01.01075	23 36 41.95	+32 37 00.1	20.4 T	K I81
324P	2021 09 01.01432	23 36 41.79	+32 37 00.7	20.4 T	K I81
324P	2021 09 01.01788	23 36 41.65	+32 37 01.3	20.5 T	K I81
324P	2021 09 03.290708	23 34 57.74	+32 41 05.7	20.54G	G96
324P	2021 09 03.295927	23 34 57.52	+32 41 06.4	20.41G	G96
324P	2021 09 03.301157	23 34 57.24	+32 41 06.9	20.62G	G96
324P	2021 09 03.306378	23 34 57.01	+32 41 07.2	20.60G	G96
324P	2021 09 05.93475	23 32 52.14	+32 43 32.6	20.1 T	K 215
324P	2021 09 05.93862	23 32 51.96	+32 43 32.9	20.2 T	K 215
324P	2021 09 05.94249	23 32 51.77	+32 43 33.2	20.2 T	K 215
324P	2021 09 09.346611	23 30 04.542	+32 43 12.55	21.05w	F52
324P	2021 09 09.358822	23 30 03.911	+32 43 12.19	20.97w	F52
324P	2021 09 09.371071	23 30 03.279	+32 43 11.78	21.07w	F52
324P	2021 09 09.383270	23 30 02.643	+32 43 11.32	21.07w	F52
324P	2021 09 11.152500	23 28 33.89	+32 41 20.8	20.3 T	KW62
324P	2021 09 11.164549	23 28 33.25	+32 41 20.1	20.8 T	KW62
324P	2021 09 11.176910	23 28 32.58	+32 41 19.8	20.4 T	KW62
324P	2021 09 15.325372	23 25 02.16	+32 32 50.7	20.78G	G96
324P	2021 09 15.330642	23 25 01.89	+32 32 49.3	20.28G	G96
324P	2021 09 15.335922	23 25 01.63	+32 32 48.6	20.63G	G96
324P	2021 09 15.341186	23 25 01.36	+32 32 48.0	20.40G	G96
324P	2021 09 17.02630	23 23 35.86	+32 27 41.0	21.0 N	K A77
324P	2021 09 17.05884	23 23 34.21	+32 27 34.2	20.4 N	K A77
324P	2021 09 17.07346	23 23 33.50	+32 27 30.5	20.6 N	K A77

376P/LONEOS

376P	2021 09 04.09397	23 31 07.04	−02 11 16.0	22.5 V	10W84
376P	2021 09 04.09568	23 31 07.00	−02 11 16.2		10W84
376P	2021 09 04.09741	23 31 06.93	−02 11 16.8		10W84
376P	2021 09 04.09912	23 31 06.89	−02 11 17.0		10W84
376P	2021 09 04.10084	23 31 06.83	−02 11 17.3		10W84
376P	2021 09 04.10256	23 31 06.77	−02 11 17.6		10W84
376P	2021 09 04.10428	23 31 06.72	−02 11 18.0		10W84

376P	2021 09 04.10600	23 31 06.67	−02 11 18.3	10W84							
376P	2021 09 04.10772	23 31 06.61	−02 11 18.6	10W84		**378P/McNaught**					
376P	2021 09 04.10945	23 31 06.56	−02 11 19.0	10W84	378P	2021 08 10.03203	23 48 51.22	−25 55 14.9	19.5 T	K 215	
376P	2021 09 04.11117	23 31 06.51	−02 11 19.3	10W84	378P	2021 08 10.03357	23 48 51.19	−25 55 15.7		K 215	
376P	2021 09 04.11289	23 31 06.45	−02 11 19.5	10W84	378P	2021 08 10.03512	23 48 51.18	−25 55 16.4	18.9 T	K 215	
376P	2021 09 04.11461	23 31 06.40	−02 11 19.9	10W84	378P	2021 08 28.66004	23 41 20.48	−27 49 47.0	18.2 T	K Q11	
376P	2021 09 04.11633	23 31 06.35	−02 11 20.3	10W84	378P	2021 08 28.66570	23 41 20.31	−27 49 48.7		K Q11	
376P	2021 09 04.11805	23 31 06.30	−02 11 20.6	10W84	378P	2021 08 28.67171	23 41 20.12	−27 49 50.9		K Q11	
376P	2021 09 04.11976	23 31 06.25	−02 11 21.0	10W84	378P	2021 08 29.426157	23 40 57.206	−27 53 53.95	19.34i	F51	
376P	2021 09 04.12149	23 31 06.18	−02 11 21.3	10W84	378P	2021 08 29.436728	23 40 56.874	−27 53 57.32	19.37i	F51	
376P	2021 09 04.12320	23 31 06.14	−02 11 21.6	10W84	378P	2021 08 29.442743	23 40 56.68	−27 53 59.3	19.07o	T08	
376P	2021 09 04.12492	23 31 06.08	−02 11 22.0	10W84	378P	2021 08 29.445965	23 40 56.52	−27 54 00.2	19.15o	T08	
376P	2021 09 04.12664	23 31 06.02	−02 11 22.1	10W84	378P	2021 08 29.447316	23 40 56.534	−27 54 00.75	19.33i	F51	
376P	2021 09 04.12838	23 31 05.97	−02 11 22.5	10W84	378P	2021 08 29.449650	23 40 56.40	−27 54 01.5	18.84o	T08	
376P	2021 09 04.13009	23 31 05.92	−02 11 22.8	10W84	378P	2021 08 29.455182	23 40 56.21	−27 54 03.9	18.51o	T08	
376P	2021 09 04.13181	23 31 05.87	−02 11 23.1	10W84	378P	2021 08 29.457852	23 40 56.192	−27 54 04.08	19.48i	F51	
376P	2021 09 04.13353	23 31 05.82	−02 11 23.6	10W84	378P	2021 08 31.496382	23 39 52.67	−28 04 42.3	19.02o	T05	
376P	2021 09 04.13525	23 31 05.75	−02 11 23.8	10W84	378P	2021 08 31.500044	23 39 52.57	−28 04 44.5	19.02o	T05	
376P	2021 09 04.13698	23 31 05.70	−02 11 24.2	10W84	378P	2021 08 31.534825	23 39 51.40	−28 04 54.2	19.08o	T05	
376P	2021 09 04.13870	23 31 05.65	−02 11 24.3	10W84	378P	2021 08 31.541739	23 39 51.18	−28 04 56.1	19.02o	T05	
376P	2021 09 04.14042	23 31 05.61	−02 11 24.8	10W84	378P	2021 09 04.404426	23 37 46.702	−28 23 42.26	19.22w	F51	
376P	2021 09 04.14213	23 31 05.54	−02 11 25.2	10W84	378P	2021 09 04.420295	23 37 46.167	−28 23 46.67	19.24w	F51	
376P	2021 09 04.14384	23 31 05.49	−02 11 25.3	10W84	378P	2021 09 04.436170	23 37 45.632	−28 23 51.00	19.43w	F51	
376P	2021 09 04.14556	23 31 05.44	−02 11 25.7	10W84	378P	2021 09 04.451340	23 37 45.109	−28 23 55.28	19.41w	F51	
376P	2021 09 04.14728	23 31 05.39	−02 11 26.0	10W84	378P	2021 09 04.54727	23 37 42.03	−28 24 19.2	18.8 T	K E94	
376P	2021 09 04.14899	23 31 05.34	−02 11 26.4	10W84	378P	2021 09 04.55736	23 37 41.59	−28 24 22.2	18.8 T	K E94	
376P	2021 09 04.15071	23 31 05.28	−02 11 26.7	10W84	378P	2021 09 04.56745	23 37 41.13	−28 24 24.9	18.8 T	K E94	
376P	2021 09 04.15242	23 31 05.22	−02 11 27.1	10W84	378P	2021 09 04.57753	23 37 40.82	−28 24 27.1	18.7 T	K E94	
376P	2021 09 04.15415	23 31 05.17	−02 11 27.4	10W84	378P	2021 09 06.07392	23 36 51.36	−28 31 12.5	19.1 N	J22	
376P	2021 09 04.15588	23 31 05.12	−02 11 27.7	10W84	378P	2021 09 06.07778	23 36 51.24	−28 31 13.6	19.1 N	J22	
376P	2021 09 04.15760	23 31 05.06	−02 11 28.0	10W84	378P	2021 09 06.08164	23 36 51.08	−28 31 14.5	19.1 N	J22	
376P	2021 09 04.15932	23 31 05.01	−02 11 28.3	10W84	378P	2021 09 06.489187	23 36 37.47	−28 33 01.7	19.05o	T08	
376P	2021 09 04.16103	23 31 04.96	−02 11 28.7	10W84	378P	2021 09 06.492873	23 36 37.33	−28 33 02.4	18.79o	T08	
376P	2021 09 04.16276	23 31 04.91	−02 11 28.9	10W84	378P	2021 09 06.500252	23 36 37.10	−28 33 02.9	19.03o	T08	
376P	2021 09 04.16448	23 31 04.85	−02 11 29.3	10W84	378P	2021 09 06.536143	23 36 35.83	−28 33 13.0	18.80o	T08	
376P	2021 09 04.16620	23 31 04.80	−02 11 29.6	10W84	378P	2021 09 08.430552	23 35 32.38	−28 41 07.7	19.09c	T05	
376P	2021 09 04.16791	23 31 04.74	−02 11 30.0	10W84	378P	2021 09 08.433756	23 35 32.25	−28 41 07.4	19.44c	T05	
376P	2021 09 04.16963	23 31 04.68	−02 11 30.3	10W84	378P	2021 09 08.437826	23 35 32.06	−28 41 09.2	19.46c	T05	
376P	2021 09 04.17135	23 31 04.64	−02 11 30.6	10W84	378P	2021 09 08.443308	23 35 31.93	−28 41 11.1	19.07c	T05	
376P	2021 09 04.17307	23 31 04.58	−02 11 30.9	10W84	378P	2021 09 11.400347	23 33 51.849	−28 52 26.97	19.32w	F51	
376P	2021 09 04.17479	23 31 04.53	−02 11 31.2	10W84	378P	2021 09 11.410838	23 33 51.477	−28 52 29.32	19.32w	F51	
376P	2021 09 04.17651	23 31 04.47	−02 11 31.6	10W84	378P	2021 09 11.421348	23 33 51.113	−28 52 31.52	19.33w	F51	
376P	2021 09 04.17823	23 31 04.42	−02 11 31.9	10W84	378P	2021 09 11.431825	23 33 50.736	−28 52 33.77	19.42w	F51	
376P	2021 09 04.17995	23 31 04.37	−02 11 32.3	10W84	378P	2021 09 14.01152	23 32 23.22	−29 01 16.4	18.8 N	J22	
376P	2021 09 04.18168	23 31 04.31	−02 11 32.6	10W84	378P	2021 09 14.01531	23 32 23.08	−29 01 16.7	18.8 N	J22	
376P	2021 09 04.18340	23 31 04.26	−02 11 32.9	10W84	378P	2021 09 14.01911	23 32 22.95	−29 01 17.7	18.8 N	J22	
376P	2021 09 04.18510	23 31 04.21	−02 11 33.2	10W84							
376P	2021 09 04.18684	23 31 04.15	−02 11 33.5	10W84		**382P/Larson**					
376P	2021 09 04.18856	23 31 04.10	−02 11 34.0	10W84	382P	2021 08 09.363110	21 35 54.183	−08 26 22.53	20.14w	F51	
376P	2021 09 04.19027	23 31 04.05	−02 11 34.2	10W84	382P	2021 08 09.374804	21 35 53.849	−08 26 24.88	20.21w	F51	
376P	2021 09 04.19199	23 31 03.99	−02 11 34.5	10W84	382P	2021 08 09.386490	21 35 53.514	−08 26 27.23	20.16w	F51	
376P	2021 09 04.19370	23 31 03.94	−02 11 34.9	10W84	382P	2021 08 09.398625	21 35 53.161	−08 26 29.57	20.22w	F51	
376P	2021 09 04.19541	23 31 03.88	−02 11 35.2	10W84	382P	2021 08 10.402038	21 35 25.09	−08 29 48.3	19.23c	T08	
					382P	2021 08 10.403882	21 35 25.00	−08 29 48.0	19.43c	T08	

382P	2021 08 10.425425	21 35 24.46	−08 29 52.3	19.63c		T08
382P	2021 08 10.428188	21 35 24.38	−08 29 53.1	19.51c		T08
382P	2021 08 12.01834	21 34 39.73	−08 35 11.7	19.4	R	03 J04
382P	2021 08 12.03003	21 34 39.36	−08 35 14.4	19.0	R	03 J04
382P	2021 08 12.04172	21 34 39.04	−08 35 16.9	19.2	R	03 J04
382P	2021 08 12.05341	21 34 38.69	−08 35 19.0	19.4	R	03 J04
382P	2021 08 12.397449	21 34 29.02	−08 36 28.8	18.24o		T05
382P	2021 08 12.399279	21 34 28.98	−08 36 29.1	19.06o		T05
382P	2021 08 12.403395	21 34 28.88	−08 36 29.8	19.01o		T05
382P	2021 08 12.433037	21 34 27.95	−08 36 36.9	17.81o		T05
382P	2021 08 15.398628	21 33 04.23	−08 46 46.8	18.89o		T05
382P	2021 08 15.401828	21 33 04.20	−08 46 45.0	19.19o		T05
382P	2021 08 15.429008	21 33 03.39	−08 46 51.9	19.30o		T05
382P	2021 08 15.431847	21 33 03.26	−08 46 52.4	18.57o		T05
382P	2021 08 16.390887	21 32 36.21	−08 50 12.4	18.90o		T05
382P	2021 08 16.392539	21 32 36.216	−08 50 13.05	19.92i		F51
382P	2021 08 16.396374	21 32 36.08	−08 50 14.9	19.20o		T05
382P	2021 08 16.398204	21 32 36.05	−08 50 14.1	18.48o		T05
382P	2021 08 16.402988	21 32 35.908	−08 50 15.24	19.87i		F51
382P	2021 08 16.413476	21 32 35.603	−08 50 17.43	19.64i		F51
382P	2021 08 16.422369	21 32 35.35	−08 50 19.9	19.28o		T05
382P	2021 08 16.423959	21 32 35.298	−08 50 19.78	19.69i		F51
382P	2021 08 16.433319	21 32 34.99	−08 50 21.6	18.95o		T05
382P	2021 08 16.443275	21 32 34.64	−08 50 23.5	19.07o		T05
382P	2021 08 16.446205	21 32 34.68	−08 50 25.5	19.06o		T05
382P	2021 08 16.65847	21 32 28.67	−08 51 09.6	17.7	R	D29
382P	2021 08 16.67261	21 32 28.26	−08 51 12.0	17.7	R	D29
382P	2021 08 16.68675	21 32 27.81	−08 51 15.0	17.5	R	D29
382P	2021 08 18.394315	21 31 39.82	−08 57 14.3	18.89o		T08
382P	2021 08 18.397540	21 31 39.74	−08 57 16.2	18.80o		T08
382P	2021 08 18.400304	21 31 39.62	−08 57 15.4	19.15o		T08
382P	2021 08 18.414498	21 31 39.24	−08 57 18.6	18.97o		T08
382P	2021 08 28.419650	21 27 06.48	−09 33 07.2	19.03o		T05
382P	2021 08 28.425163	21 27 06.37	−09 33 09.5	19.02o		T05
382P	2021 08 28.432316	21 27 06.13	−09 33 10.7	19.00o		T05
382P	2021 08 28.435541	21 27 06.13	−09 33 11.8	18.92o		T05
382P	2021 08 29.32537	21 26 43.120	−09 36 23.01	20.2	w	F51
382P	2021 08 29.33674	21 26 42.812	−09 36 25.49	20.1	w	F51
382P	2021 08 29.34844	21 26 42.502	−09 36 28.04	20.1	w	F51
382P	2021 08 29.61351	21 26 35.61	−09 37 25.4	18.5	T	K Q11
382P	2021 08 29.62907	21 26 35.20	−09 37 28.8			K Q11
382P	2021 08 29.64392	21 26 34.81	−09 37 32.0			K Q11
382P	2021 08 30.418920	21 26 15.12	−09 40 18.0	18.93o		T08
382P	2021 08 30.422148	21 26 14.94	−09 40 19.5	18.36o		T08
382P	2021 08 30.428700	21 26 14.84	−09 40 19.6	18.58o		T08
382P	2021 08 30.441414	21 26 14.51	−09 40 21.9	19.31o		T08
382P	2021 08 30.55968	21 26 11.54	−09 40 48.5			K Q11
382P	2021 08 30.56534	21 26 11.40	−09 40 49.7	18.3	T	K Q11
382P	2021 08 30.57135	21 26 11.23	−09 40 51.0			K Q11
382P	2021 09 02.86238	21 24 50.24	−09 52 33.3	18.5	T	K A77
382P	2021 09 02.86959	21 24 50.02	−09 52 34.9	19.1	T	K A77
382P	2021 09 04.378892	21 24 14.38	−09 57 53.4	19.36c		T05
382P	2021 09 04.415641	21 24 13.42	−09 57 59.3	19.11c		T05
382P	2021 09 04.419302	21 24 13.38	−09 58 01.1	19.14c		T05
382P	2021 09 04.454488	21 24 12.48	−09 58 08.0	19.20c		T05
382P	2021 09 08.57808	21 22 41.24	−10 12 22.5	19.8	R	D29
382P	2021 09 08.59222	21 22 40.89	−10 12 25.8	18.8	R	D29
382P	2021 09 08.60636	21 22 40.62	−10 12 27.8	18.7	R	D29
382P	2021 09 09.53508	21 22 21.33	−10 15 36.8			K Q11
382P	2021 09 09.54108	21 22 21.20	−10 15 38.1			K Q11
382P	2021 09 09.54709	21 22 21.05	−10 15 39.3	18.4	T	K Q11
382P	2021 09 10.350681	21 22 04.792	−10 18 20.32	20.55w		F51
382P	2021 09 10.359286	21 22 04.606	−10 18 22.18	20.54w		F51
382P	2021 09 10.367884	21 22 04.428	−10 18 23.79	20.46w		F51
382P	2021 09 10.376495	21 22 04.239	−10 18 25.68	20.42w		F51

384P/Kowalski

384P	2019 12 21.251110	07 47 21.79	+43 10 39.7	18.95r		I41
384P	2019 12 21.254330	07 47 21.45	+43 10 38.7	18.71r		I41
384P	2019 12 21.256620	07 47 21.19	+43 10 38.1	18.89r		I41
384P	2019 12 21.447870	07 47 00.39	+43 09 37.2	19.36g		I41
384P	2019 12 29.282750	07 33 32.72	+42 13 38.2	18.95r		I41
384P	2019 12 29.292560	07 33 31.65	+42 13 33.2	18.94r		I41
384P	2019 12 29.399130	07 33 19.87	+42 12 39.4	19.04r		I41
384P	2019 12 29.485830	07 33 10.39	+42 11 51.9	19.62g		I41
384P	2020 01 05.254100	07 22 09.17	+41 06 24.9	19.25r		I41
384P	2020 01 05.259541	07 22 08.65	+41 06 21.4	19.19r		I41
384P	2020 01 05.260450	07 22 08.56	+41 06 21.1	19.24r		I41
384P	2020 01 05.266010	07 22 08.01	+41 06 17.6	19.19r		I41
384P	2020 01 05.420580	07 21 52.76	+41 04 38.8	19.12r		I41
384P	2020 01 05.428520	07 21 51.99	+41 04 33.5	19.19r		I41
384P	2020 01 12.267670	07 12 26.35	+39 46 59.7	19.55r		I41
384P	2020 01 12.281160	07 12 25.25	+39 46 50.5	19.49r		I41
384P	2020 01 14.215690	07 10 08.95	+39 23 35.0	19.66r		I41
384P	2020 01 14.305650	07 10 02.33	+39 22 31.0	19.55r		I41

388P/Gibbs

388P	2020 02 19.343209	11 39 34.92	+37 39 07.0	20.94r		I41
388P	2020 02 19.351130	11 39 34.41	+37 39 08.4	20.99r		I41
388P	2020 02 22.392500	11 36 22.46	+37 45 14.6	20.97r		I41
388P	2020 02 22.404240	11 36 21.67	+37 45 15.6	20.79r		I41

390P/Gibbs

390P	2020 09 01.500490	07 45 31.52	+09 12 07.9	18.52r		I41
390P	2020 09 01.510120	07 45 32.50	+09 12 05.9	18.47r		I41
390P	2020 09 01.514830	07 45 32.98	+09 12 04.8	18.61r		I41
390P	2020 09 03.501340	07 48 45.46	+09 03 42.2	18.63r		I41
390P	2020 09 03.506060	07 48 45.93	+09 03 41.2	18.86r		I41
390P	2020 09 03.510780	07 48 46.38	+09 03 39.3	18.68r		I41
390P	2020 09 03.515490	07 48 46.79	+09 03 38.0	18.74r		I41
390P	2020 09 15.502330	08 06 59.61	+08 10 29.6	18.81r		I41
390P	2020 09 15.511770	08 07 00.39	+08 10 27.2	18.96r		I41
390P	2020 09 15.516490	08 07 00.80	+08 10 25.8	18.88r		I41
390P	2020 09 15.521230	08 07 01.20	+08 10 24.6	19.11r		I41
390P	2020 09 17.512860	08 09 50.83	+08 01 16.4	18.75r		I41
390P	2020 09 17.517569	08 09 51.35	+08 01 15.0	18.69r		I41
390P	2020 09 17.522280	08 09 51.71	+08 01 14.0	18.73r		I41

395P/Catalina-NEAT

395P	2021 06 05.65817	19 38 38.54	−17 52 13.1			01Q62
395P	2021 06 05.66268	19 38 38.45	−17 52 12.9	17.9	T	01Q62
395P	2021 08 07.561335	19 09 39.55	−18 29 55.8	18.0	T	900
395P	2021 08 07.568342	19 09 39.34	−18 29 56.3	18.1	T	900
395P	2021 08 11.369528	19 08 17.05	−18 33 30.8	17.08o		T05
395P	2021 08 11.372730	19 08 16.96	−18 33 30.7	17.38o		T05
395P	2021 08 11.378238	19 08 16.83	−18 33 30.7	17.39o		T05
395P	2021 08 11.89616	19 08 06.41	−18 34 00.3	17.9	T	K77
395P	2021 08 11.91176	19 08 06.24	−18 34 01.4	17.7	T	K77
395P	2021 08 13.348660	19 07 38.57	−18 35 19.6	18.15c		T08
395P	2021 08 13.352806	19 07 38.47	−18 35 19.6	17.59c		T08
395P	2021 08 13.358788	19 07 38.34	−18 35 20.1	18.22c		T08
395P	2021 08 13.369873	19 07 38.17	−18 35 20.5	17.82c		T08
395P	2021 08 27.377080	19 04 42.13	−18 46 56.6	17.60o		T05
395P	2021 08 27.380281	19 04 42.06	−18 46 56.6	16.62o		T05
395P	2021 08 27.426936	19 04 41.78	−18 46 57.5	17.65o		T05
395P	2021 08 27.427394	19 04 41.75	−18 46 57.6	18.04o		T05
395P	2021 08 30.49252	19 04 27.63	−18 49 07.8	17.4	T	KQ11
395P	2021 08 30.49675	19 04 27.62	−18 49 08.1			KQ11
395P	2021 09 01.86538	19 04 22.86	−18 50 40.0	18.8	T	K 215
395P	2021 09 01.86667	19 04 22.87	−18 50 41.3	18.8	T	K 215
395P	2021 09 01.86796	19 04 22.86	−18 50 41.9			K 215
395P	2021 09 04.38935	19 04 23.87	−18 52 10.7	17.8	T	KE94
395P	2021 09 04.41705	19 04 23.89	−18 52 11.9	17.8	T	KE94
395P	2021 09 04.44392	19 04 23.92	−18 52 12.5	17.8	T	KE94
395P	2021 09 06.327306	19 04 28.95	−18 53 18.5	18.18o		T08
395P	2021 09 06.330538	19 04 28.92	−18 53 18.4	18.32o		T08
395P	2021 09 06.336524	19 04 29.02	−18 53 18.5	18.11o		T08
395P	2021 09 06.347139	19 04 28.99	−18 53 19.4	17.66o		T08
395P	2021 09 09.46998	19 04 45.13	−18 54 55.5			KQ11
395P	2021 09 09.47775	19 04 45.18	−18 54 55.8	17.4	T	KQ11
395P	2021 09 09.48475	19 04 45.23	−18 54 55.8			KQ11
395P	2021 09 12.314133	19 05 08.28	−18 56 11.1	18.21o		T05
395P	2021 09 12.320096	19 05 08.40	−18 56 11.2	18.32o		T05
395P	2021 09 12.335650	19 05 08.41	−18 56 12.1	18.16o		T05

402P/LINEAR

402P	2021 08 27.39914	06 07 02.11	+02 17 45.1	18.1	T	X03
402P	2021 08 27.40684	06 07 02.56	+02 17 45.0	17.4	T	X03
402P	2021 08 27.41604	06 07 03.05	+02 17 44.2	18.0	T	X03
402P	2021 08 27.41834	06 07 03.16	+02 17 44.5	18.1	T	KX03
402P	2021 08 27.42524	06 07 03.54	+02 17 43.9	17.5	T	X03
402P	2021 08 28.604240	06 08 06.55	+02 16 37.7	17.68o		T05
402P	2021 08 28.609762	06 08 06.85	+02 16 37.4	18.06o		T05
402P	2021 08 28.626816	06 08 07.74	+02 16 36.3	17.47o		T05
402P	2021 08 28.632317	06 08 08.09	+02 16 35.9	18.04o		T05
402P	2021 09 05.606552	06 14 55.17	+02 07 49.9	17.51c		T05
402P	2021 09 05.612039	06 14 55.51	+02 07 49.5	18.22c		T05
402P	2021 09 05.628676	06 14 56.32	+02 07 48.7	18.17c		T05
402P	2021 09 11.16107	06 19 17.66	+02 00 23.8	18.9	T	KA77
402P	2021 09 11.17454	06 19 18.28	+02 00 22.8	18.4	T	KA77
402P	2021 09 14.23240	06 21 34.58	+01 55 56.1	17.9	N	J22
402P	2021 09 14.23619	06 21 34.76	+01 55 55.5	17.9	N	J22
402P	2021 09 14.23999	06 21 34.91	+01 55 54.7	17.9	N	J22

404P/Bressi

404P	2021 08 09.159329	22 34 50.78	+03 40 28.9	19.9	T	KW62
404P	2021 08 09.173582	22 34 50.38	+03 40 28.5	21.1	T	KW62
404P	2021 08 09.187847	22 34 50.00	+03 40 27.5	20.4	T	KW62
404P	2021 08 11.91225	22 33 34.04	+03 37 01.1	19.5	T	K 215
404P	2021 08 11.91548	22 33 33.93	+03 37 00.9	19.8	T	K 215
404P	2021 08 11.91871	22 33 33.83	+03 37 00.7	20.0	T	K 215
404P	2021 08 11.92494	22 33 33.69	+03 37 00.5	20.2	T	KK77
404P	2021 08 11.93024	22 33 33.54	+03 37 00.1	20.2	T	KK77
404P	2021 08 12.584774	22 33 14.704	+03 36 05.46	21.05w		F51
404P	2021 08 12.592366	22 33 14.469	+03 36 04.79	21.26w		F51
404P	2021 08 12.599943	22 33 14.255	+03 36 04.18	20.99w		F51
404P	2021 08 12.607632	22 33 14.026	+03 36 03.54	21.30w		F51
404P	2021 08 18.29543	22 30 25.42	+03 26 30.0	19.8	T	KX03
404P	2021 08 18.30212	22 30 25.19	+03 26 29.5	20.0	T	KX03
404P	2021 08 18.31103	22 30 24.97	+03 26 28.9	20.8	T	KX03
404P	2021 08 31.376816	22 23 33.555	+02 55 05.55	20.73w		F52
404P	2021 08 31.389694	22 23 33.127	+02 55 03.49	20.67w		F52
404P	2021 08 31.402593	22 23 32.706	+02 55 01.34	20.57w		F52
404P	2021 08 31.415558	22 23 32.276	+02 54 59.33	20.68w		F52
404P	2021 09 09.209833	22 18 56.79	+02 28 10.5			G96
404P	2021 09 09.215992	22 18 56.58	+02 28 09.4			G96
404P	2021 09 09.222146	22 18 56.36	+02 28 07.9	20.03G		G96
404P	2021 09 09.228297	22 18 56.19	+02 28 06.7	19.93G		G96

408P/Novichonok-Gerke

408P	2021 06 08.74457	23 37 41.82	+07 01 33.7	19.1	T	KQ11
408P	2021 06 08.75029	23 37 42.02	+07 01 34.8			KQ11
408P	2021 06 08.75636	23 37 42.23	+07 01 36.1			KQ11
408P	2021 07 31.378620	23 53 18.58	+08 07 54.9	20.04g		I41
408P	2021 07 31.462650	23 53 18.20	+08 07 47.0	19.95g		I41
408P	2021 08 10.460792	23 52 00.96	+07 44 41.1	19.16c		T08
408P	2021 08 10.466335	23 52 00.91	+07 44 40.1	19.27c		T08
408P	2021 08 10.477859	23 52 00.75	+07 44 37.7	19.36c		T08
408P	2021 08 10.481087	23 52 00.75	+07 44 37.8	19.38c		T08
408P	2021 08 12.91947	23 51 29.00	+07 36 52.9	19.0	T	K77
408P	2021 08 12.93006	23 51 28.99	+07 36 51.0	19.0	T	K77
408P	2021 08 13.491103	23 51 21.062	+07 34 59.99	19.44w		F51
408P	2021 08 13.503973	23 51 20.861	+07 34 57.10	19.68w		F51
408P	2021 08 13.529648	23 51 20.455	+07 34 51.75	19.63w		F51
408P	2021 08 14.453052	23 51 06.81	+07 31 39.7	19.31c		T08
408P	2021 08 14.454894	23 51 06.83	+07 31 38.9	18.65c		T08
408P	2021 08 14.465141	23 51 06.70	+07 31 36.1	19.03c		T08
408P	2021 08 14.471145	23 51 06.55	+07 31 35.6	19.21c		T08
408P	2021 08 16.449078	23 50 35.02	+07 24 20.6	18.92o		T05
408P	2021 08 16.450927	23 50 35.05	+07 24 20.2	18.80o		T05
408P	2021 08 16.461035	23 50 34.87	+07 24 17.6	18.95o		T05
408P	2021 08 16.467031	23 50 34.79	+07 24 16.6	18.66o		T05
408P	2021 08 17.31593	23 50 20.24	+07 21 02.2	18.7	T	X03
408P	2021 08 17.32485	23 50 20.06	+07 21 00.1	18.5	T	X03
408P	2021 08 17.32595	23 50 20.07	+07 21 00.0	18.5	T	KX03

408P	2021 08 17.33375	23 50 19.93	+07 20 58.0	18.6 T		X03
408P	2021 08 17.34267	23 50 19.77	+07 20 56.1	18.5 T		X03
408P	2021 08 18.419578	23 50 00.80	+07 16 36.3	18.61o		T08
408P	2021 08 18.436557	23 50 00.48	+07 16 31.6	18.81o		T08
408P	2021 08 18.444025	23 50 00.34	+07 16 29.9	18.40o		T08
408P	2021 08 18.446801	23 50 00.26	+07 16 28.4	18.84o		T08
408P	2021 08 28.63704	23 46 20.05	+06 28 23.5			Q11
408P	2021 08 28.64553	23 46 19.83	+06 28 20.6			Q11
408P	2021 08 28.65402	23 46 19.62	+06 28 18.1	18.3 T		Q11
408P	2021 08 29.441824	23 45 59.968	+06 24 03.58	18.88i		F52
408P	2021 08 29.454772	23 45 59.637	+06 23 59.37	18.96i		F52
408P	2021 08 29.467816	23 45 59.286	+06 23 55.13	18.79i		F52
408P	2021 08 29.480795	23 45 58.940	+06 23 50.79	18.91i		F52
408P	2021 08 30.454218	23 45 34.05	+06 18 29.2	18.12o		T08
408P	2021 08 30.457442	23 45 34.00	+06 18 28.3	18.31o		T08
408P	2021 08 30.468083	23 45 33.70	+06 18 24.7	18.33o		T08
408P	2021 08 30.477781	23 45 33.46	+06 18 21.2	18.05o		T08
408P	2021 09 03.496197	23 43 45.78	+05 55 06.2	18.13o		T08
408P	2021 09 03.500389	23 43 45.69	+05 55 04.3	17.97o		T08
408P	2021 09 03.505674	23 43 45.55	+05 55 02.3	18.19o		T08
408P	2021 09 03.538298	23 43 44.55	+05 54 50.6	17.68o		T08
408P	2021 09 03.95093	23 43 33.34	+05 52 20.3	18.3 T		K77
408P	2021 09 03.95799	23 43 33.12	+05 52 17.6	18.6 T		K77
408P	2021 09 07.454564	23 41 53.16	+05 30 32.8	17.84o		T08
408P	2021 09 07.459882	23 41 53.02	+05 30 31.0	18.03o		T08
408P	2021 09 07.493613	23 41 51.97	+05 30 17.8	18.10o		T08
408P	2021 09 07.496840	23 41 51.86	+05 30 16.4	17.80o		T08
408P	2021 09 10.295183	23 40 29.20	+05 12 01.4	17.97G		G96
408P	2021 09 10.302710	23 40 28.99	+05 11 58.5	18.07G		G96
408P	2021 09 10.308406	23 40 28.80	+05 11 56.1	18.02G		G96
408P	2021 09 10.314106	23 40 28.62	+05 11 53.8	18.02G		G96
408P	2021 09 10.71366	23 40 16.53	+05 09 13.8	17.4 R		D29
408P	2021 09 10.72780	23 40 16.08	+05 09 08.2	17.6 R		D29
408P	2021 09 10.74195	23 40 15.68	+05 09 03.2	17.9 R		D29
408P	2021 09 13.348145	23 38 56.997	+04 51 25.21	19.14w		F51
408P	2021 09 13.359904	23 38 56.628	+04 51 20.39	19.24w		F51
408P	2021 09 13.360246	23 38 56.56	+04 51 20.2	18.17o		T05
408P	2021 09 13.363062	23 38 56.50	+04 51 18.8	18.25o		T05
408P	2021 09 13.366010	23 38 56.38	+04 51 17.8	18.17o		T05
408P	2021 09 13.368866	23 38 56.30	+04 51 16.4	17.91o		T05
408P	2021 09 13.371653	23 38 56.257	+04 51 15.56	19.24w		F51
408P	2021 09 13.383382	23 38 55.888	+04 51 10.72	19.21w		F51
408P	2021 09 13.63061	23 38 48.21	+04 49 27.6	17.0 R		D29
408P	2021 09 13.64476	23 38 47.80	+04 49 21.8	18.5 R		D29
408P	2021 09 13.65890	23 38 47.35	+04 49 16.1	18.5 R		D29
408P	2021 09 17.211972	23 36 58.25	+04 24 24.7	18.47G		703
408P	2021 09 17.217428	23 36 58.13	+04 24 22.8	18.32G		703
408P	2021 09 17.222880	23 36 58.00	+04 24 20.2	17.82G		703
408P	2021 09 17.228339	23 36 57.71	+04 24 16.0			703
408P	2021 09 17.430184	23 36 51.49	+04 22 52.5	18.55o		T05
408P	2021 09 17.437293	23 36 51.30	+04 22 49.8	18.15o		T05
408P	2021 09 17.440497	23 36 51.26	+04 22 48.6	18.23o		T05
408P	2021 09 17.452978	23 36 50.76	+04 22 42.9	18.16o		T05

417P/NEOWISE

417P	2021 08 09.370032	19 25 27.84	−25 41 29.4	19.41c		T08
417P	2021 08 09.373260	19 25 28.00	−25 41 31.0	19.38c		T08
417P	2021 08 09.380203	19 25 27.90	−25 41 33.5	19.65c		T08
417P	2021 08 09.405921	19 25 27.87	−25 41 42.1	19.54c		T08
417P	2021 08 11.90030	19 25 40.75	−25 55 09.5	18.9 T	K	215
417P	2021 08 11.90223	19 25 40.83	−25 55 09.6	18.8 T	K	215
417P	2021 08 11.90417	19 25 40.84	−25 55 09.9	18.7 T	K	215

419P/PANSTARRS

419P	2021 08 03.97351	12 24 05.62	−01 54 47.5	20.0 T	K	X03
419P	2021 08 03.98118	12 24 06.30	−01 54 52.5	20.2 T	K	X03
419P	2021 08 03.98963	12 24 06.99	−01 54 57.4	20.4 T	K	X03

420P/Hill

420P	2021 08 11.87200	16 47 19.08	−05 15 07.2	19.7 T	K	215
420P	2021 08 11.87355	16 47 19.19	−05 15 07.6	19.8 T	K	215
420P	2021 08 11.87510	16 47 19.18	−05 15 08.1	19.5 T	K	215
420P	2021 08 23.84145	16 50 41.31	−06 15 51.7	19.6 T	K	A77
420P	2021 08 23.85650	16 50 41.61	−06 15 57.4	19.6 T	K	A77
420P	2021 08 26.272624	16 51 41.807	−06 28 40.00	21.02w		F51
420P	2021 08 26.283002	16 51 42.080	−06 28 43.34	20.91w		F51
420P	2021 08 26.293347	16 51 42.319	−06 28 46.61	21.15w		F51
420P	2021 08 26.303721	16 51 42.589	−06 28 49.95	21.03w		F51

422P/Christensen

422P	2021 08 10.31180	22 25 01.11	−69 38 45.5	17.2 T	K	X03
422P	2021 08 10.31291	22 25 01.01	−69 38 45.6	17.2 T	K	X03
422P	2021 08 10.32294	22 25 00.11	−69 38 46.6	17.3 T	K	X03
422P	2021 08 10.32851	22 24 59.62	−69 38 47.3	17.3 T		X03
422P	2021 08 19.54729	22 11 05.14	−69 39 04.3	16.3 T	K	E94
422P	2021 08 19.55738	22 11 04.11	−69 39 03.3	16.4 T	K	E94
422P	2021 08 19.56746	22 11 03.17	−69 39 02.8	16.4 T	K	E94
422P	2021 08 19.57756	22 11 02.20	−69 39 01.3	16.4 T	K	E94
422P	2021 08 24.05557	22 04 10.98	−69 28 15.2	16.8 R		Y00
422P	2021 08 24.06866	22 04 09.61	−69 28 13.3	17.5 R		Y00
422P	2021 08 24.09589	22 04 07.04	−69 28 08.0	17.1 R		Y00
422P	2021 09 07.14968	21 45 00.70	−68 08 31.6	17.6 T		X03
422P	2021 09 07.15859	21 45 00.06	−68 08 27.3	17.5 T		X03
422P	2021 09 07.16528	21 44 59.60	−68 08 24.2	17.4 T		X03
422P	2021 09 07.17754	21 44 58.70	−68 08 17.9	17.4 T	K	X03
422P	2021 09 07.18534	21 44 58.16	−68 08 14.4	17.7 T		X03

424P/La Sagra

424P	2021 08 04.07390	19 43 17.69	−40 38 27.0	18.0 T		X03
424P	2021 08 04.07972	19 43 17.34	−40 38 29.2	18.2 T	K	X03
424P	2021 08 04.09815	19 43 16.27	−40 38 36.6	18.2 T	K	X03
424P	2021 08 04.11506	19 43 15.27	−40 38 43.2	18.2 T	K	X03
424P	2021 08 05.24675	19 42 15.33	−40 45 34.4	18.6 T	14	W88
424P	2021 08 05.25500	19 42 14.87	−40 45 36.5	18.5 T	14	W88
424P	2021 08 05.409579	19 42 07.26	−40 46 40.7	18.09c		T08
424P	2021 08 05.412803	19 42 07.10	−40 46 42.0	18.25c		T08
424P	2021 08 05.419259	19 42 06.67	−40 46 44.1	18.40c		T08
424P	2021 08 05.429391	19 42 06.11	−40 46 47.2	18.34c		T08
424P	2021 08 07.412960	19 40 26.39	−40 57 36.5	18.15o		T05

424P	2021 08 07.416650	19 40 26.20	−40 57 37.5	18.41o		T05
424P	2021 08 07.423053	19 40 25.83	−40 57 39.1	18.47o		T05
424P	2021 08 07.433585	19 40 25.28	−40 57 42.4	18.44o		T05
424P	2021 08 09.367726	19 38 54.02	−41 06 51.7	18.26c		T08
424P	2021 08 09.370956	19 38 53.87	−41 06 52.5	18.36c		T08
424P	2021 08 09.376513	19 38 53.55	−41 06 54.1	18.14c		T08
424P	2021 08 09.403161	19 38 52.15	−41 07 00.7	18.08c		T08
424P	2021 08 11.371358	19 37 26.05	−41 14 50.7	18.89o		T05
424P	2021 08 11.374565	19 37 25.96	−41 14 51.3	18.88o		T05
424P	2021 08 11.380066	19 37 25.65	−41 14 52.9	18.95o		T05
424P	2021 08 11.408873	19 37 24.29	−41 14 59.5	18.76o		T05
424P	2021 08 13.361574	19 36 07.15	−41 21 16.6	18.00c		T08
424P	2021 08 13.365267	19 36 06.98	−41 21 17.1	17.99c		T08
424P	2021 08 13.371253	19 36 06.74	−41 21 18.5	18.11c		T08
424P	2021 08 13.406774	19 36 05.16	−41 21 23.9	18.10c		T08
424P	2021 08 15.46387	19 34 53.78	−41 26 14.2	18.3	T	K E94
424P	2021 08 15.47407	19 34 53.41	−41 26 15.7	18.3	T	K E94
424P	2021 08 15.48426	19 34 53.02	−41 26 16.8	18.3	T	K E94
424P	2021 08 15.49444	19 34 52.64	−41 26 17.8	18.2	T	K E94
424P	2021 08 26.42212	19 32 02.42	−41 25 55.2	18.5	T	K E94
424P	2021 08 26.43221	19 32 02.40	−41 25 53.2	18.5	T	K E94
424P	2021 08 26.44229	19 32 02.37	−41 25 51.9	18.4	T	K E94
424P	2021 08 26.45236	19 32 02.35	−41 25 50.8	18.4	T	K E94
424P	2021 08 29.328388	19 32 25.14	−41 18 35.0	18.09o		T08
424P	2021 08 29.331616	19 32 25.23	−41 18 33.9	18.27o		T08
424P	2021 08 29.337147	19 32 25.25	−41 18 33.0	18.08o		T08
424P	2021 08 29.347282	19 32 25.31	−41 18 31.0	18.25o		T08
424P	2021 08 31.324344	19 32 59.04	−41 11 40.2	18.39c		T05
424P	2021 08 31.327552	19 32 59.08	−41 11 39.8	18.24c		T05
424P	2021 08 31.333955	19 32 59.13	−41 11 38.2	18.10c		T05
424P	2021 08 31.344475	19 32 59.32	−41 11 35.4	18.24c		T05
424P	2021 09 03.97660	19 34 41.14	−40 55 18.3	18.6	G	KW94
424P	2021 09 03.98230	19 34 41.29	−40 55 15.7	18.3	G	KW94
424P	2021 09 03.98802	19 34 41.48	−40 55 12.8	18.4	G	KW94
424P	2021 09 06.339749	19 36 13.76	−40 42 26.0	19.05o		T08
424P	2021 09 06.342978	19 36 14.05	−40 42 24.8	19.12o		T08
424P	2021 09 06.350365	19 36 14.26	−40 42 21.5	18.91o		T08
424P	2021 09 06.361003	19 36 14.64	−40 42 18.0	18.72o		T08
424P	2021 09 08.313541	19 37 48.95	−40 30 08.2	18.74c		T05
424P	2021 09 08.317201	19 37 49.09	−40 30 06.4	18.64c		T05
424P	2021 09 08.322688	19 37 49.31	−40 30 04.5	18.40c		T05
424P	2021 09 08.333227	19 37 49.79	−40 29 59.7	18.85c		T05

425P/Kowalski

425P	2021 08 08.592392	03 52 10.689	+17 21 14.37	20.44w		F51
425P	2021 08 08.597803	03 52 11.101	+17 21 14.11	20.32w		F51
425P	2021 08 08.603228	03 52 11.514	+17 21 13.85	20.45w		F51
425P	2021 08 08.608640	03 52 11.931	+17 21 13.59	20.36w		F51
425P	2021 08 10.04893	03 54 02.77	+17 19 53.1	19.6	T	K 215
425P	2021 08 10.05047	03 54 02.86	+17 19 52.6	19.7	T	K 215
425P	2021 08 10.05202	03 54 02.97	+17 19 52.0	19.4	T	K 215
425P	2021 08 19.571843	04 05 42.22	+17 05 27.7	19.36o		T08
425P	2021 08 19.575995	04 05 42.46	+17 05 27.3	19.49o		T08
425P	2021 08 19.582008	04 05 42.93	+17 05 26.5	19.11o		T08
425P	2021 08 19.582468	04 05 42.97	+17 05 26.0	19.36o		T08
425P	2021 09 04.543220	04 22 38.83	+16 18 49.6	19.03o		T08
425P	2021 09 04.567077	04 22 40.16	+16 18 45.4	18.56o		T08
425P	2021 09 04.570303	04 22 40.36	+16 18 44.5	19.13o		T08
425P	2021 09 04.575834	04 22 40.62	+16 18 43.8	19.31o		T08
425P	2021 09 05.550407	04 23 35.274	+16 14 57.16	19.69w		F52
425P	2021 09 05.564442	04 23 36.046	+16 14 53.82	19.73w		F52
425P	2021 09 05.578453	04 23 36.795	+16 14 50.62	19.73w		F52
425P	2021 09 05.592479	04 23 37.560	+16 14 47.38	19.70w		F52
425P	2021 09 07.02663	04 24 55.89	+16 09 01.4	19.4	T	K77
425P	2021 09 07.03721	04 24 56.55	+16 08 58.3	19.7	T	K77
425P	2021 09 08.30295	04 26 04.23	+16 03 47.9	19.0	T	K X03
425P	2021 09 08.31298	04 26 04.58	+16 03 45.0	18.7	T	K X03
425P	2021 09 08.32301	04 26 05.18	+16 03 42.7	18.6	T	K X03
425P	2021 09 09.490290	04 27 05.83	+15 58 39.5	18.95G		G96
425P	2021 09 09.495656	04 27 06.09	+15 58 38.3	18.82G		G96
425P	2021 09 09.500154	04 27 06.33	+15 58 37.0	18.92G		G96
425P	2021 09 10.468228	04 27 55.56	+15 54 21.6	18.95G		703
425P	2021 09 10.472573	04 27 55.78	+15 54 20.3	19.12G		703
425P	2021 09 10.476924	04 27 55.98	+15 54 19.2	18.72G		703
425P	2021 09 10.481265	04 27 56.23	+15 54 17.9	18.80G		703
425P	2021 09 10.80266	04 28 12.45	+15 52 51.5	18.5	R	D29
425P	2021 09 10.81680	04 28 13.12	+15 52 47.8	18.5	R	D29
425P	2021 09 10.83094	04 28 13.83	+15 52 43.9	18.7	R	D29
425P	2021 09 15.528109	04 31 56.647	+15 30 27.29	19.41w		F52
425P	2021 09 15.540785	04 31 57.202	+15 30 23.50	19.43w		F52
425P	2021 09 15.553419	04 31 57.759	+15 30 19.77	19.49w		F52
425P	2021 09 15.566074	04 31 58.307	+15 30 15.98	19.35w		F52
425P	2021 09 16.420654	04 32 36.00	+15 25 56.7	19.07G		703
425P	2021 09 16.425919	04 32 36.11	+15 25 54.7	18.83G		703
425P	2021 09 16.431185	04 32 36.39	+15 25 53.2	18.66G		703
425P	2021 09 16.436456	04 32 36.68	+15 25 52.2	18.92G		703

428P/Gibbs

428P	2021 08 07.45538	03 14 16.77	+27 28 13.3			32H06
428P	2021 08 07.46049	03 14 17.31	+27 28 16.5	19.6	T	32H06
428P	2021 08 16.13113	03 28 57.03	+28 51 54.2	20.0	T	02 Z84
428P	2021 08 16.14341	03 28 58.24	+28 52 01.1	19.9	T	02 Z84
428P	2021 08 16.15569	03 28 59.37	+28 52 07.4	20.0	T	02 Z84
428P	2021 08 17.138800	03 30 33.12	+29 00 58.5	19.8	T	02 Z84
428P	2021 08 17.148005	03 30 33.95	+29 01 03.2	20.2	T	02 Z84
428P	2021 08 17.157208	03 30 34.85	+29 01 08.5	20.1	T	02 Z84
428P	2021 09 02.96209	03 53 32.90	+31 13 41.3	20.0	T	K 215
428P	2021 09 02.96596	03 53 33.23	+31 13 43.9	20.1	T	K 215

429P/LINEAR-Hill

429P	2016 01 15.259259	09 32 52.77	+17 38 30.6	21.4	T	15W84
429P	2016 01 15.260295	09 32 52.74	+17 38 31.0	21.6	T	15W84
429P	2016 03 01.137523	08 50 41.89	+18 41 57.4			15W84
429P	2016 03 01.138912	08 50 41.82	+18 41 57.4	21.8	T	15W84
429P	2021 08 30.384329	23 02 28.857	−00 51 18.17	20.90w		F51
429P	2021 08 30.396226	23 02 28.272	−00 51 17.16	20.86w		F51
429P	2021 08 30.408115	23 02 27.674	−00 51 15.89	20.89w		F51

429P	2021 08 30.420049	23 02 27.086	−00 51 14.77	20.96w		F51
429P	2021 08 31.90101	23 01 17.26	−00 48 54.1	20.1 T	K	204
429P	2021 08 31.91400	23 01 16.61	−00 48 53.5		K	204
429P	2021 09 01.92821	23 00 27.69	−00 47 22.1	19.6 T	K	215
429P	2021 09 01.93014	23 00 27.59	−00 47 22.1	19.7 T	K	215
429P	2021 09 01.93208	23 00 27.48	−00 47 22.0	19.6 T	K	215
429P	2021 09 04.98367	22 57 56.23	−00 43 20.3	19.8 T	K	A77
429P	2021 09 05.00055	22 57 55.34	−00 43 19.1	20.0 T	K	A77
429P	2021 09 05.01737	22 57 54.47	−00 43 18.0	20.0 T	K	A77
429P	2021 09 10.62273	22 53 07.80	−00 37 46.8	19.9 R		D29
429P	2021 09 10.63687	22 53 06.98	−00 37 46.5	19.7 R		D29
429P	2021 09 10.65102	22 53 06.26	−00 37 45.7	20.4 R		D29
429P	2021 09 11.191947	22 52 38.62	−00 37 20.0	20.16G		G96
429P	2021 09 11.197207	22 52 38.32	−00 37 19.7	20.09G		G96
429P	2021 09 11.202459	22 52 38.06	−00 37 19.4	19.84G		G96
429P	2021 09 11.207724	22 52 37.78	−00 37 18.9	20.01G		G96
429P	2021 09 14.12196	22 50 08.39	−00 35 07.8	19.9 T	K	X03
429P	2021 09 14.12308	22 50 08.32	−00 35 07.7	20.3 T	K	X03
429P	2021 09 14.13088	22 50 07.89	−00 35 07.5	20.3 T	K	X03

430P/Scotti

430P	2021 09 04.05443	08 12 18.85	+22 18 04.6	17.8 T		L51
430P	2021 09 04.06158	08 12 20.12	+22 18 02.5	17.7 T		L51
430P	2021 09 04.06877	08 12 21.29	+22 17 59.0	17.8 T		L51
430P	2021 09 05.14089	08 15 24.59	+22 09 59.6	17.7 T	K	215
430P	2021 09 05.14218	08 15 24.87	+22 09 58.7		K	215
430P	2021 09 05.14347	08 15 25.10	+22 09 58.8	17.5 T	K	215
430P	2021 09 09.487125	08 27 49.85	+21 35 30.1	17.54G		703
430P	2021 09 09.492235	08 27 50.65	+21 35 26.7	17.46G		703
430P	2021 09 09.497332	08 27 51.49	+21 35 24.0	17.26G		703
430P	2021 09 09.502430	08 27 52.40	+21 35 21.8	18.51G		703
430P	2021 09 16.487929	08 47 54.15	+20 32 25.8	17.16G		703
430P	2021 09 16.493673	08 47 55.09	+20 32 22.5	17.27G		703
430P	2021 09 16.505160	08 47 57.47	+20 32 16.8	17.93G		703
430P	2021 09 18.498061	08 53 40.85	+20 12 40.4	17.80G		G96
430P	2021 09 18.501398	08 53 41.50	+20 12 38.7			G96
430P	2021 09 18.504704	08 53 42.02	+20 12 36.0	17.78G		G96
430P	2021 09 18.508015	08 53 42.43	+20 12 35.1	18.12G		G96

431P/Scotti

431P	2002 11 16.27773	04 02 24.02	−03 38 44.5	19.5 T		644
431P	2002 11 16.30167	04 02 23.15	−03 39 10.9	19.6 T		644
431P	2002 11 16.34359	04 02 21.65	−03 39 58.4	19.0 T		644
431P	2021 09 02.88537	21 40 07.98	+16 43 07.0	19.9 T	K	215
431P	2021 09 02.88860	21 40 07.82	+16 43 05.1	20.0 T	K	215
431P	2021 09 02.89183	21 40 07.67	+16 43 03.2	20.0 T	K	215
431P	2021 09 04.238560	21 39 14.92	+16 26 39.0	21.04T		I41
431P	2021 09 04.276770	21 39 13.33	+16 26 10.4	20.32T		I41
431P	2021 09 04.87986	21 38 50.18	+16 18 34.0	20.6 T	K	A71
431P	2021 09 04.88819	21 38 49.84	+16 18 27.9	20.6 T	K	A71
431P	2021 09 04.89744	21 38 49.53	+16 18 21.2	20.9 T	K	A71
431P	2021 09 06.216530	21 37 59.99	+16 01 24.2	21.01T		I41
431P	2021 09 06.258190	21 37 58.31	+16 00 51.4	20.35T		I41
431P	2021 09 06.259130	21 37 58.27	+16 00 50.6	20.28T		I41
431P	2021 09 07.199095	21 37 23.98	+15 48 23.6	20.22G		G96
431P	2021 09 07.204773	21 37 23.75	+15 48 18.8	20.05G		G96
431P	2021 09 07.210458	21 37 23.55	+15 48 14.5	20.28G		G96
431P	2021 09 07.216140	21 37 23.33	+15 48 09.7	20.37G		G96
431P	2021 09 10.25456	21 35 38.491	+15 06 05.33	20.7 w		F52
431P	2021 09 10.27634	21 35 37.731	+15 05 46.77	20.5 w		F52
431P	2021 09 11.134821	21 35 09.76	+14 53 23.4	20.3 T		KW62
431P	2021 09 11.137263	21 35 09.65	+14 53 21.1	19.7 T		KW62
431P	2021 09 11.140573	21 35 09.58	+14 53 18.4	19.7 T		KW62

432P/PANSTARRS

432P	2016 10 25.470906	01 55 03.162	+19 46 44.80	20.95T		F51
432P	2016 10 25.483453	01 55 02.557	+19 46 38.04	20.77T		F51
432P	2016 10 25.495961	01 55 01.955	+19 46 31.33	20.79T		F51
432P	2016 10 27.32144	01 53 39.02	+19 30 09.1	20.2 V		G96
432P	2016 10 27.32574	01 53 38.81	+19 30 06.9	20.4 V		G96
432P	2016 10 27.33008	01 53 38.66	+19 30 03.9	19.8 V		G96
432P	2016 10 27.33441	01 53 38.40	+19 30 01.4	20.2 V		G96
432P	2016 11 15.411688	01 41 37.207	+16 38 07.16	21.47T		F51
432P	2016 11 15.425396	01 41 36.801	+16 38 00.17	21.45T		F51
432P	2016 11 15.452880	01 41 36.014	+16 37 45.97	21.65T		F51
432P	2021 07 08.53018	23 07 47.209	+09 16 09.51	22.3 w		F51
432P	2021 07 08.54163	23 07 47.495	+09 16 15.31	22.4 w		F51
432P	2021 07 08.55306	23 07 47.777	+09 16 21.17	22.3 w		F51
432P	2021 08 09.57479	23 09 45.646	+12 12 27.65	21.7 w		F51
432P	2021 08 09.58613	23 09 45.373	+12 12 28.80	21.6 w		F51
432P	2021 08 09.59739	23 09 45.151	+12 12 29.98	21.5 w		F51
432P	2021 08 09.60859	23 09 44.896	+12 12 31.22	21.5 w		F51
432P	2021 08 10.049072	23 09 36.25	+12 13 17.9	21.5 V	K	L01
432P	2021 08 10.074182	23 09 35.59	+12 13 20.3	21.5 V	K	L01
432P	2021 08 10.511971	23 09 26.645	+12 14 07.42	21.59G	28	568
432P	2021 08 10.513181	23 09 26.612	+12 14 07.50	21.46G	28	568
432P	2021 08 10.514404	23 09 26.584	+12 14 07.62	21.60G	28	568
432P	2021 08 14.59347	23 07 50.06	+12 18 38.2			01Q62
432P	2021 08 14.59884	23 07 49.93	+12 18 38.5			01Q62
432P	2021 08 14.60422	23 07 49.76	+12 18 39.1	21.4 G		01Q62
432P	2021 09 02.90333	22 56 30.39	+11 36 47.6	20.1 T	K	215
432P	2021 09 02.90914	22 56 30.09	+11 36 46.3	20.0 T	K	215
432P	2021 09 02.91495	22 56 29.91	+11 36 42.9		K	215
432P	2021 09 03.479568	22 56 06.635	+11 34 04.13	20.55w		F51
432P	2021 09 03.492132	22 56 06.101	+11 34 00.66	20.67w		F51
432P	2021 09 03.504684	22 56 05.550	+11 33 56.40	20.60w		F51
432P	2021 09 04.91673	22 55 07.70	+11 26 43.1	20.4 T	K	A71
432P	2021 09 04.92994	22 55 07.12	+11 26 38.5	20.1 T	K	A71
432P	2021 09 08.201966	22 52 52.69	+11 08 16.3	20.14G		G96
432P	2021 09 08.207189	22 52 52.47	+11 08 14.8	20.42G		G96
432P	2021 09 08.212398	22 52 52.25	+11 08 12.8	20.34G		G96
432P	2021 09 08.217622	22 52 52.04	+11 08 10.9	20.26G		G96

OBSERVATIONS OF MINOR PLANETS

The summary lists, for each observatory code, provide a count of the total number of observations, of the number of objects and of the number of discoveries

followed by an asterisk, together with the total range of dates covered by the observations.

006 Fabra Observatory, Barcelona

Observers A. Bernal, J. M. Codina, J. Nuñez, N. Torras. Measurers A. Bernal, J. Nuñez, N. Torras. 0.35-m $f/11$ Schmidt-Cassegrain + CCD.

(99248), 5, 1, 0; *[5, 1, 0∗, 2019/08/05]*

033 Karl Schwarzschild Observatory, Tautenburg

Observers S. Melnikov, C. Hoegner, U. Laux, F. Ludwig, B. Stecklum. Measurer B. Stecklum. 1.34-m $f/3$ Schmidt + CCD. (01)

{1} 2004 XJ_{29}, 8, 2, 1; 2008 CD_6, 4, 1, 0; 2009 YY_{33}, 6, 1, 0; 2010 RJ_{53}, 3, 1, 0; 2014 SH_{142}, 3, 1, 0; 2016 BQ, 2, 1, 0; 2017 GL_7, 7, 1, 0; 2018 QQ, 3, 1, 0; 2018 WV_2, 4, 1, 0; 2019 DK, 3, 1, 0; 2019 DT, 3, 1, 0; 2019 RU_3, 11, 3, 5; 2020 PK, 4, 1, 0; 2021 LB_2, 3, 1, 0; 2021 LU_6, 2, 1, 0; 2021 LQ_{24}, 2, 1, 0; 2021 MG_1, 16, 5, 29; 2021 NQ_5, 3, 1, 0; 2021 OZ, 12, 3, 5; 2021 OF_1, 12, 3, 5; 2021 OG_1, 6, 2, 2; 2021 OS_1, 9, 3, 4; 2021 OH_2, 3, 1, 0; 2021 PJ, 9, 3, 5; 2021 PT, 11, 3, 5; 2021 PJ_1, 11, 3, 3; 2021 PQ_1, 4, 1, 0; 2021 PU_1, 4, 1, 0; 2021 PX_1, 3, 1, 0; 2021 PA_2, 3, 1, 0; 2021 PB_2, 3, 1, 0; 2021 PL_2, 4, 1, 0; 2021 PO_2, 2, 1, 0; 2021 PP_2, 3, 1, 0; 2021 PJ_4, 4, 1, 0; 2021 PW_4, 14, 3, 5; 2021 PZ_4, 4, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PG_5, 8, 3, 3; 2021 PK_5, 3, 1, 0; 2021 PN_5, 4, 2, 2; 2021 PQ_6, 3, 1, 0; 2021 PC_7, 12, 4, 4; 2021 PD_7, 12, 4, 5; 2021 PG_7, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PC_9, 2, 1, 0; 2021 PC_{10}, 8, 2, 2; 2021 PE_{10}, 10, 3, 3; 2021 PF_{10}, 3, 1, 0; 2021 PG_{10}, 5, 2, 2; 2021 PH_{10}, 3, 1, 0; 2021 PJ_{10}, 9, 2, 2; 2021 PD_{15}, 3, 1, 0; 2021 PB_{17}, 3, 1, 0; 2021 PJ_{23}, 4, 1, 0; 2021 PA_{24}, 7, 2, 1; 2021 PJ_{27}, 24, 6, 6; 2021 PF_{46}, 4, 1, 0; 2021 PO_{52}, 9, 3, 2; 2021 PA_{60}, 6, 2, 1; 2021 PJ_{64}, 4, 1, 0; 2021 QW, 15, 4, 3; 2021 QE_1, 13, 2, 4; 2021 QH_1, 24, 7, 6; 2021 QL_1, 6, 2, 3; 2021 QM_1, 16, 4, 3; 2021 QN_1, 3, 1, 0; 2021 QR_1, 7, 2, 1; 2021 QA_2, 38, 11, 10; 2021 QE_2, 9, 2, 2; 2021 QF_2, 3, 1, 0; 2021 QG_2, 10, 3, 5; 2021 QH_2, 3, 1, 0; 2021 QJ_2, 3, 1, 0; 2021 QK_2, 3, 1, 0; 2021 QN_2, 3, 1, 0; 2021 QO_2, 4, 1, 0; 2021 QP_2, 7, 2, 7; 2021 QR_2, 3, 1, 0; 2021 QU_2, 3, 1, 0; 2021 QB_3, 14, 3, 2; 2021 QC_3, 9, 3, 5; 2021 QD_3, 11, 4, 5; 2021 QE_3, 8, 2, 1; 2021 QG_3, 4, 1, 0; 2021 QH_3, 8, 3, 6; 2021 QJ_3, 11, 3, 4; 2021 QK_3, 8, 2, 1; 2021 QM_3, 11, 3, 5; 2021 QN_3, 8, 2, 1; 2021 QO_3, 11, 2, 1; 2021 QP_3, 6, 2, 1; 2021 QQ_3, 8, 2, 1; 2021 QR_3, 17, 5, 12; 2021 QY_3, 4, 1, 0; 2021 QB_4, 4, 1, 0; 2021 QJ_4, 6, 2, 1; 2021 QK_4, 4, 1, 0; 2021 QY_4, 7, 2, 1; 2021 QZ_4, 4, 1, 0; 2021 QA_5, 4, 1, 0; 2021 QB_5, 3, 1, 0; 2021 QC_5, 3, 1, 0; 2021 QD_5, 6, 1, 0; 2021 QF_5, 7, 2, 1; 2021 QL_5, 7, 1, 0; 2021 QN_5, 3, 1, 0; 2021 QQ_5, 9, 3, 3; 2021 QV_5, 9, 2, 1; 2021 QY_5, 11, 3, 2; 2021 QZ_5, 5, 2, 1; 2021 QC_6, 10, 3, 3; 2021 QD_6, 3, 1, 0; 2021 QH_6, 3, 1, 0; 2021 QQ_6, 13, 3, 2; 2021 QV_6, 18, 6, 6; 2021 QB_{11}, 3, 1, 0; 2021 RB, 12, 2, 1; 2021 RC, 4, 1, 0; 2021 RD, 3, 1, 0; 2021 RE, 7, 2, 1; 2021 RF, 4, 1, 0; 2021 RG, 9, 2, 1; 2021 RH, 6, 2, 1; 2021 RJ, 7, 2, 1; 2021 RK, 3, 1, 0; 2021 RL, 6, 2, 1; 2021 RM, 9, 2, 1; 2021 RN, 3, 1, 0; 2021 RO, 7, 2, 1; 2021 RQ, 6, 2, 3; 2021 RR, 6, 2, 3; 2021 RS, 10, 3, 4; 2021 RT, 6, 2, 1; 2021 RU, 3, 1, 0; 2021 RW, 10, 2, 2; 2021 RX, 10, 2, 2; 2021 RY, 6, 2, 1; 2021 RZ, 3, 1, 0; 2021 RA_1, 9, 3, 2; 2021 RB_1, 17, 5, 4; 2021 RC_1, 7, 2, 2; 2021 RD_1, 4, 1, 0; 2021 RE_1, 6, 2, 1; 2021 RF_1, 6, 1, 0; 2021 RG_1, 3, 1, 0; 2021 RJ_1, 2, 1, 0; 2021 RK_1, 3, 1, 0; 2021 RL_1, 3, 1, 0; 2021 RN_1, 14, 3, 3; 2021 RO_1, 2, 1, 0; 2021 RP_1, 3, 1, 0; 2021 RQ_1, 4, 1, 0; 2021 RR_1, 9, 2, 7; 2021 RT_1, 10, 3, 2; 2021 RU_1, 13, 4, 6; 2021 RV_1, 18, 4, 3; 2021 RW_1, 6, 1, 0; 2021 RY_1, 4, 1, 0; 2021 RZ_1, 3, 1, 0; 2021 RB_2, 12, 3, 7; 2021 RD_2, 9, 3, 7; 2021 RG_2, 12, 3, 2; 2021 RH_2, 3, 1, 0; 2021 RJ_2, 9, 2, 1; 2021 RK_2, 3, 1, 0; 2021 RL_2, 3, 1, 0; 2021 RR_2, 4, 1, 0; 2021 RS_2, 4, 1, 0; 2021 RT_2, 13, 4, 5; 2021 RU_2, 4, 1, 0; 2021 RV_2, 4, 1, 0; 2021 RW_2, 6, 2, 1; 2021 RX_2, 3, 1, 0; 2021 RY_2, 8, 2, 2; 2021 RE_3, 3, 1, 0; 2021 RF_3, 7, 1, 0; 2021 RG_3, 7, 1, 0; 2021 RH_3, 8, 1, 0; 2021 RJ_3, 4, 1, 0; 2021 RL_3, 18, 5, 5; 2021 RM_3, 8, 2, 1; 2021 RN_3, 13, 3, 5; 2021 RO_3, 7, 2, 1; 2021 RP_3, 8, 2, 1; 2021 RQ_3, 3, 1, 0; 2021 RR_3, 3, 1, 0; 2021 RS_3, 6, 2, 1; 2021 RT_3, 6, 2, 1; 2021 RU_3, 6, 2, 3; 2021 RV_3, 4, 1, 0; 2021 RW_3, 10, 2, 1; 2021 RX_3, 6, 2, 1; 2021 RY_3, 15, 4, 5; 2021 RZ_3, 3, 1, 0; 2021 RA_4, 4, 1, 0; 2021 RB_4, 4, 1, 0; 2021 RD_4, 3, 1, 0; 2021 RE_4, 4, 1, 0; 2021 RF_4, 4, 1, 0; 2021 RK_4, 6, 2, 1; 2021 RL_4, 6, 2, 4; 2021 RP_4, 4, 1, 0; 2021 RQ_4, 10, 3, 2; 2021 RR_4, 7, 2, 3; 2021 RS_4, 4, 1, 0; 2021 RT_4, 3, 1, 0; 2021 RV_4, 3, 1, 0; 2021 RW_4, 9, 3, 4; 2021 RX_4, 6, 2, 1; 2021 RY_4, 5, 1, 0; 2021 RZ_4, 7, 2, 3; 2021 RE_5, 7, 2, 2; 2021 RF_5, 3, 1, 0; 2021 RJ_5, 4, 1, 0; 2021 RM_5, 3, 1, 0; 2021 RP_5, 3, 1, 0; 2021 RQ_5, 2, 1, 0; 2021 RR_5, 6, 2, 1; 2021 RS_5, 14, 4, 3; 2021 RT_5, 8, 2, 1; 2021 RU_5, 10, 2, 3; 2021 RW_5, 7, 2, 1; 2021 RZ_5, 4, 1, 0; 2021 RA_6, 6, 2, 1; 2021 RB_6, 6, 2, 1; 2021 RC_6, 7, 2, 1; 2021 RD_6, 3, 1, 0; 2021 RE_6, 6, 2, 1; 2021 RF_6, 4, 1, 0; 2021 RH_6, 8, 2, 1; 2021 RJ_6, 6, 2, 2; 2021 RK_6, 9, 3, 2; 2021 RL_6, 3, 1, 0; 2021 RM_6, 3, 1, 0; 2021 RO_6, 3, 1, 0; 2021 RQ_6, 4, 1, 0; 2021 RV_6, 7, 2, 1; 2021 RW_6, 3, 1, 0; 2021 RX_6, 7, 2, 1; 2021 RY_6, 3, 1, 0; 2021 RA_7, 4, 1, 0; 2021 RE_7, 3, 1, 0; 2021 RF_7, 3, 1, 0; 2021 RG_7, 6, 2, 1; 2021 RJ_7, 7, 2, 1; 2021 RK_7, 5, 2, 1; 2021 RM_7, 3, 1, 0; 2021 RN_7, 3, 1, 0; 2021 RP_7, 4, 1, 0; 2021 RU_7, 9, 3, 2; 2021 RV_7, 7, 2, 1; 2021 RW_7, 6, 2, 1; 2021 RX_7, 3, 1, 0; 2021 RY_7, 4, 1, 0; 2021 RZ_7, 5, 1, 0; 2021 RA_8, 4, 1, 0; 2021 RC_8, 6, 2, 2; 2021 RO_9, 11, 3, 2; 2021 RP_9, 3, 1, 0; 2021 RQ_9, 3, 1, 0; 2021 RR_9, 7, 2, 3; 2021 RT_9, 7, 2, 2; 2021 RU_9, 6, 2, 1; 2021 RV_9, 3, 1, 0; 2021 RA_{10}, 6, 2, 1; 2021 RB_{10}, 7, 2, 1; 2021 RC_{10}, 3, 1, 0; 2021 RD_{10}, 7, 2, 1; 2021 RE_{10}, 7, 2, 1; 2021 RF_{10}, 7, 2, 1; 2021 RK_{10}, 7, 2, 1; 2021 RL_{10}, 7, 2, 1; 2021 RN_{10}, 3, 1, 0; 2021 RP_{10}, 3, 1, 0; 2021 RU_{10}, 6, 2, 1; 2021 RD_{12}, 3, 1, 0; 2021 RE_{12}, 3, 1, 0; 2021 RF_{12}, 4, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RH_{12}, 3, 1, 0; 2021 RJ_{12}, 3, 1, 0; 2021 RM_{12}, 3, 1, 0; 2021 RP_{12}, 6, 2, 1; 2021 RQ_{12}, 3, 1, 0; 2021 RR_{12}, 4, 1, 0; 2021 RJ_{14}, 5, 1, 0; 2021 RB_{15}, 3, 1, 0; 2021 RD_{15}, 3, 1, 0; *[1823, 290, 0∗, 2021/08/08–2021/09/13]*

069 Baldone

Observers K. Černis, I. Eglitis. Measurer K. Černis. 0.80-m $f/3.0$ Schmidt + CCD.

2000 SX_{23}, 3, 1, 0; 2001 DM_{118}, 3, 1, 0; 2003 SR_{357}, 3, 1, 0; 2004 QN_{31}, 3, 1, 0; 2005 VR_{139}, 3, 1, 0; 2007 TC_{335}, 3, 1, 0; 2007 VD_{97}, 3, 1, 0; 2008 CP_{222}, 3, 1, 0; 2008 SN_{203}, 3, 1, 0; 2010 KB_{155}, 3, 1, 0; 2010 UP_{29}, 3, 1, 0; 2010 UY_{109}, 3, 1, 0; 2011 GL_8, 6, 2, 1; 2011 QX_{112}, 3, 1, 0; 2011 UQ_{31}, 3, 1, 0; 2011 WT_{23}, 3, 1, 0; 2012 ST_{95}, 3, 1, 0; 2013 AW_3, 3, 1, 0; 2013 CW_{115}, 3, 1, 0; 2013 TN_{60}, 3, 1, 0; 2013 VA_{71}, 6, 2, 4; 2013 YW_{43}, 3, 1, 0; 2013 YT_{51}, 3, 1, 0; 2014 QB_{497}, 3, 1, 0; 2014 QW_{560}, 3, 1, 0; 2015 OV_{118}, 6, 2, 6; 2015 PZ_{260}, 3, 1, 0; 2015 VJ_{44}, 3, 1, 0; 2016 NE_4, 6, 2, 6; 2017 PZ_{44}, 3, 1, 0; 2017 PO_{48}, 3, 1, 0; 2017 SM_{265} ∗, 3, 1, 0; 2017 SA_{275} ∗, 3, 1, 0; 2017 VP_{53}, 3, 1, 0; 2018 RL_{58}, 2, 1, 0; 2019 SC_{183} ∗, 3, 1, 0; 2021 PT_{14}, 3, 1, 0; 2021 PO_{83}, 3, 1, 0; 2021 RZ_{19}, 2, 1, 0; (1940), 6, 2, 1; (1949), 3, 1, 0; (7825), 3, 1, 0; (8364), 3, 1, 0; (17706), 6, 2, 6; (24762), 3, 1, 0; (25033), 3, 1, 0; (32249), 3, 1, 0; (34264), 3, 1, 0; (39087), 3, 1, 0; (43064), 3, 1, 0; (46860), 3, 1, 0; (54606), 3, 1, 0; (55723), 3, 1, 0; (63648), 3, 1, 0; (65897), 3, 1, 0; (68038), 6, 2, 6; (70055), 9, 3, 6; (71214), 3, 1, 0; (88287), 3, 1, 0; (91480), 3, 1, 0; (92012), 3, 1, 0; (92995), 3, 1, 0; (93490), 3, 1, 0; (94601), 6, 2, 6; (98174), 3, 1, 0; (105532), 6, 2, 6; (106447), 3, 1, 0; (107650), 3, 1, 0; (109196), 3, 1, 0; (115287), 3, 1, 0; (117300), 3, 1, 0; (125594), 3, 1, 0; (128695), 6, 2, 6; (139833), 3, 1, 0; (143769), 3, 1, 0; (146119), 3, 1, 0; (150256), 3, 1, 0; (153234), 3, 1, 0; (157640), 3, 1, 0; (160078), 3, 1, 0; (162572), 3, 1, 0; (165382), 3, 1, 0; (165992), 3, 1, 0; (166125), 3, 1, 0; (168486), 3, 1, 0; (174686), 3, 1, 0; (176029), 3, 1, 0; (179346), 3, 1, 0; (182098), 3, 1, 0; (185940), 3, 1, 0; (192649), 3, 1, 0; (196369), 3, 1, 0; (199178), 3, 1, 0; (200077), 3, 1, 0; (200276), 3, 1, 0; (202292), 3, 1, 0; (205470), 3, 1, 0; (206149), 6, 2, 6; (216979), 3, 1, 0; (219607), 3, 1, 0; (234644), 3, 1, 0; (242707), 6, 2, 6; (243637), 3, 1, 0; (245210), 3, 1, 0; (250910), 3, 1, 0; (256428), 6, 2, 1; (271137), 3, 1, 0; (275666), 3, 1, 0; (277592), 3, 1, 0; (288602), 3, 1, 0; (294532), 3, 1, 0; (299426), 3, 1, 0; (301016), 3, 1, 0; (303667), 3, 1, 0; (306968), 6, 1, 0; (316476), 3, 1, 0; (318133), 3, 1, 0; (319310), 3, 1, 0; (321257), 3, 1, 0; (323454), 3, 1, 0; (338821), 3, 1, 0; (344497), 3, 1, 0; (345024), 3, 1, 0; (346108), 3, 1, 0; (349446), 3, 1, 0; (359944), 3, 1, 0; (362851), 3, 1, 0; (373550), 3, 1, 0; (374283), 3, 1, 0; (380875), 3, 1, 0; (384468), 3, 1, 0; (386414), 3, 1, 0; (389547), 3, 1, 0; (395233), 6, 2, 6; (396251), 3, 1, 0; (403638), 6, 2, 6; (404598), 3, 1, 0; (405508), 3, 1, 0; (412398), 3, 1, 0; (416075), 3, 1, 0; (433004), 3, 1, 0; (437070), 3, 1, 0; (439997), 3, 1, 0; (440476), 3, 1, 0; (440526), 3, 1, 0; (441278), 3, 1, 0; (448442), 3, 1, 0; (459972), 3, 1, 0; (460685), 3, 1, 0; (469551), 3, 1, 0; (470982), 3, 1, 0; (481476), 3, 1, 0; (483067), 3, 1, 0; (484590), 3, 1, 0; (488784), 3, 1, 0; (499653), 3, 1, 0; (502227), 3, 1, 0; (506971), 3, 1, 0; (512199), 3, 1, 0; (513958), 3, 1, 0; (521367), 3, 1, 0; (525972), 3, 1, 0; (526751), 3, 1, 0; (529729), 3, 1, 0; (530949), 3, 1, 0; (571141), 3, 1, 0; (576274), 3, 1, 0; (577387), 6, 2, 6; (578447), 3, 1, 0; (584789), 3, 1, 0; *[565, 170, 3∗, 2008/05/09–2021/09/16]*

071 NAO Rozhen, Smolyan

Observers V. Yotov, I. Grudev, H. Hall. Measurers V. Radeva, A. Kostov. 0.5-m/0.7-m $f/3.44$ Schmidt + CCD. (06)

{6} (462), 55, 1, 0; (1034), 59, 1, 0; *[114, 2, 0∗, 2021/07/21–2021/07/22]*

073 Bucharest

Observers D. Bertesteanu, M. Popescu, A. Sonka, A. Nedelcu, M. Trelia, M. Naiman, E. Zaharia, G. Prodan. Measurers M. Popescu, D. Bertesteanu, A. Sonka, M. Trelia. 0.50-m $f/7$ reflector + CCD.

2001 EC, 11, 1, 0; 2019 UD_4, 11, 1, 0; 2020 PP, 3, 1, 0; 2021 LQ_{24}, 3, 1, 0; 2021 MG_1, 3, 1, 0; 2021 PT, 4, 1, 0; 2021 RA, 3, 1, 0; 2021 RG_2, 4, 1, 0; 2021 RX_5, 11, 1, 0; (283460), 3, 1, 0; (285571), 4, 1, 0; *[60, 11, 0∗, 2021/08/09–2021/09/15]*

089 Nikolaev

Observers D. V. Bodryagin, S. V. Protsyuk, M. O. Kulichenko, O. G. Sergienko. Measurers N. V. Maigurova, L. E. Bondarchuk. 0.5-m $f/6.0$ Maksutov + CCD. (05)

{5} 2021 ME_1, 8, 1, 0; 2021 MK_1, 3, 1, 0; 2021 RJ_{14}, 9, 1, 0; (3103), 13, 2, 11; (12923), 4, 1, 0; (87309), 5, 1, 0; (89958), 20, 3, 6; (140158), 5, 1, 0; (159857), 31, 5, 15; (162913), 6, 1, 0; (326732), 19, 3, 12; *[123, 11, 0∗, 2021/06/23–2021/09/13]*

104 San Marcello Pistoiese
Observers P. Bacci, M. Maestripieri, M. D. Grazia, T. Giovannetti, G. Fagioli, M. Mazzucato, L. Tesi, A. Carbognani, S. Stallone. Measurers P. Bacci, L. Tesi, G. Fagioli, M. Mazzucato. 0.60-m reflector + CCD, 0.60-m $f/4$ reflector + CCD.

2004 XJ_{29}, 3, 1, 0; 2008 CD_6, 3, 1, 0; 2016 ER_{21}, 3, 1, 0; 2017 GL_7, 3, 1, 0; 2018 RY_1, 3, 1, 0; 2020 PL_2, 3, 1, 0; 2021 PJ, 3, 1, 0; 2021 PZ_4, 3, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PG_7, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PC_{10}, 3, 1, 0; 2021 PE_{10}, 2, 1, 0; 2021 PJ_{27}, 2, 1, 0; 2021 QA, 2, 1, 0; 2021 QH_1, 3, 1, 0; 2021 QV_1, 2, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QM_2, 2, 1, 0; 2021 QB_3, 3, 1, 0; 2021 QD_3, 2, 1, 0; 2021 QH_3, 3, 1, 0; 2021 QJ_3, 3, 1, 0; 2021 QK_3, 3, 1, 0; 2021 QL_3, 3, 1, 0; 2021 QN_3, 2, 1, 0; 2021 QO_3, 3, 1, 0; 2021 QJ_4, 3, 1, 0; 2021 QK_4, 2, 1, 0; 2021 QV_6, 4, 1, 0; 2021 RB, 3, 1, 0; 2021 RC, 3, 1, 0; 2021 RD, 3, 1, 0; 2021 RE, 3, 1, 0; 2021 RH, 3, 1, 0; 2021 RA_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RT_1, 2, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RV_1, 2, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RM_3, 3, 1, 0; 2021 RQ_3, 3, 1, 0; 2021 RU_3, 3, 1, 0; 2021 RA_4, 3, 1, 0; 2021 RP_4, 3, 1, 0; 2021 RW_4, 4, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RB_6, 4, 1, 0; 2021 RG_6, 3, 1, 0; 2021 RH_6, 4, 1, 0; 2021 RJ_6, 3, 1, 0; 2021 RK_6, 3, 1, 0; 2021 RY_6, 4, 1, 0; 2021 RU_7, 7, 1, 0; 2021 RA_8, 4, 1, 0; 2021 RQ_9, 2, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RC_{10}, 6, 2, 1; 2021 RD_{10}, 2, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RK_{10}, 3, 1, 0; 2021 RL_{10}, 3, 1, 0; 2021 RN_{10}, 2, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RJ_{14}, 4, 1, 0; 2021 RK_{14}, 5, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RM_{14}, 3, 1, 0; 2021 RO_{14}, 2, 1, 0; 2021 SM, 4, 1, 0; 2021 SO, 4, 1, 0; (15578), 4, 1, 0; (17081), 4, 1, 0; (36400), 3, 1, 0; (88473), 2, 1, 0; (92555), 4, 1, 0; (120217), 4, 1, 0; (166504), 3, 1, 0; (248370), 2, 1, 0; (255597), 2, 1, 0; (353938), 4, 1, 0; *[267, 87, 0∗, 2008/08/27–2021/09/18]*

106 Črni Vrh
Observers J. Skvarč, H. Mikuž, J. Vales. 0.6-m $f/3.3$ Deltagraph + CCD.

2008 PS_{24} ∗, 4, 1, 0; 2011 ON_{74}, 4, 1, 0; 2012 QA_{71} ∗, 4, 1, 0; 2017 OJ_{70}, 4, 1, 0; 2021 NO_{29}, 4, 1, 0; *[20, 5, 2∗, 2008/08/11–2021/08/14]*

114 Engelhardt Observatory, Zelenchukskaya Station
Observers T. Kryachko, B. Satovski. Measurer T. Kryachko. 0.3-m $f/7.7$ reflector + CCD.

2013 EH_{40}, 2, 1, 0; *[2, 1, 0∗, 2011/10/21]*

118 Astronomical and Geophysical Observatory, Modra
Observers Š. Gajdoš, L. Kornoš. Measurer Š. Gajdoš. 0.6-m $f/5.5$ reflector + CCD.

(569647), 6, 1, 0; *[6, 1, 0∗, 2010/10/01]*

122 Pises Observatory
Observer J.-M. Lopez. 0.50-m $f/4.4$ reflector + CCD.

1986 NA, 3, 1, 0; 2008 SN_1, 6, 2, 29; 2013 YO_{104}, 3, 1, 0; 2021 LN_{15}, 3, 1, 0; 2021 LQ_{24}, 6, 2, 6; 2021 PL_{23}, 6, 2, 6; 2021 RG_{10}, 3, 1, 0; (9840), 3, 1, 0; (22106), 3, 1, 0; (38035), 3, 1, 0; (76596), 3, 1, 0; (85709), 6, 2, 28; (155340), 3, 1, 0; (193418), 3, 1, 0; (208904), 3, 1, 0; (249615), 3, 1, 0; (283460), 6, 2, 10; (303174), 3, 1, 0; (316503), 3, 1, 0; (324304), 3, 1, 0; (367525), 3, 1, 0; (438224), 3, 1, 0; (524536), 3, 1, 0; (576087), 3, 1, 0; *[87, 24, 0∗, 2021/08/13–2021/09/13]*

152 Moletai Astronomical Observatory
Observers K. Černis, J. Zdanavicius. Measurer K. Černis. 0.35-m $f/3.5$ reflector + CCD, 1.65-m $f/3.1$ reflector + CCD.

2006 YC_{64}, 1, 1, 0; 2010 JN_6, 1, 1, 0; (2839), 3, 1, 0; (2959), 4, 1, 0; (4815), 3, 1, 0; (5343), 4, 2, 1; (6185), 6, 1, 0; (6627), 3, 1, 0; (6700), 2, 1, 0; (6919), 6, 1, 0; (7712), 2, 1, 0; (8043), 3, 1, 0; (9977), 3, 1, 0; (10987), 3, 1, 0; (11282), 4, 1, 0; (11903), 3, 1, 0; (12958), 3, 1, 0; (13004), 2, 1, 0; (13343), 5, 2, 1; (14951), 3, 1, 0; (15853), 1, 1, 0; (16450), 4, 2, 1; (16640), 3, 1, 0; (17069), 2, 2, 1; (17212), 3, 1, 0; (18477), 2, 1, 0; (21502), 4, 1, 0; (23842), 2, 1, 0; (24179), 2, 1, 0; (24334), 4, 2, 1; (25130), 6, 2, 1; (27913), 1, 1, 0; (28184), 1, 1, 0; (28766), 2, 1, 0; (28855), 2, 1, 0; (29427), 3, 1, 0; (29828), 7, 2, 1; (29849), 2, 1, 0; (31384), 6, 2, 1; (31409), 3, 1, 0; (33343), 1, 1, 0; (34146), 2, 1, 0; (34965), 1, 1, 0; (35138), 2, 1, 0; (36334), 2, 1, 0; (36857), 1, 1, 0; (37894), 3, 1, 0; (39059), 2, 1, 0; *[138, 48, 0∗, 2005/10/11–2010/03/12]*

157 Frasso Sabino
Observers R. Haver, R. Gorelli. Measurer R. Haver. 0.37-m $f/6.70$ Cassegrain + CCD.

2021 PO, 3, 1, 0; 2021 PA_2, 3, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 RZ, 2, 1, 0; (37389), 2, 1, 0; (39128), 2, 1, 0; (44729), 2, 1, 0; (71508), 2, 1, 0; (136957), 2, 1, 0; (242301), 2, 1, 0; (523727), 3, 1, 0; *[26, 11, 0∗, 2021/08/07–2021/09/12]*

159 Monte Agliale
Observer F. Biagini. Measurers S. Donati, F. Biagini, F. Ciabattari, E. Mazzoni. 0.50-m $f/4.6$ reflector + CCD.

2021 RG_2, 3, 1, 0; *[3, 1, 0∗, 2021/09/06]*

160 Castelmartini
Observers E. Prosperi, S. Prosperi, M. Jaeger. Measurer E. Prosperi. 0.36-m $f/10.2$ Schmidt-Cassegrain + CCD.

2005 TR_{45}, 6, 2, 11; 2011 UC_{292}, 9, 3, 7; 2014 UU_{192}, 6, 2, 3; 2017 SR_{19}, 6, 2, 2; 2019 NC_1, 25, 7, 19; 2019 UD_4, 12, 4, 15; 2021 CH_2, 6, 2, 2; 2021 LH_9, 12, 4, 17; 2021 LN_{15}, 3, 1, 0; 2021 NF_1, 3, 1, 0; 2021 PT, 9, 3, 5; 2021 PJ_1, 3, 1, 0; 2021 PS_2, 6, 2, 3; 2021 QA, 5, 1, 0; 2021 QB_3, 5, 1, 0; 2021 QN_3, 3, 1, 0; (142464), 3, 1, 0; (159857), 3, 1, 0; (283460), 3, 1, 0; (326732), 3, 1, 0; (329669), 2, 1, 0; (353938), 3, 1, 0; (415029), 1, 1, 0; (523664), 3, 1, 0; *[140, 24, 0∗, 2021/08/12–2021/09/01]*

169 Airali Observatory
Observer S. Puccini. 0.25-m Schmidt-Cassegrain + CCD.

(889), 10, 1, 0; (935), 15, 1, 0; (1154), 15, 1, 0; (1160), 9, 1, 0; *[49, 4, 0∗, 2021/04/05–2021/04/08]*

181 Observatoire des Makes, Saint-Louis
Observers F. Vachier, A. Klotz, J. Berthier. Measurer F. Vachier. 0.6-m $f/8$ reflector + CCD. (04)

{4} 2016 NG_{150}, 8, 2, 1; 2016 PK_{213}, 34, 3, 2; 2021 OA_{14}, 15, 3, 4; 2021 PH_{16}, 51, 5, 8; 2021 PJ_{40}, 30, 3, 3; *[138, 5, 0∗, 2021/08/09–2021/08/19]*

186 Kitab
Observer A. Zhornichenko. 0.36-m $f/8$ reflector + CCD. (01)

{1} (954), 20, 5, 14; (159857), 4, 1, 0; (285571), 4, 1, 0; *[28, 3, 0∗, 2021/07/19–2021/08/31]*

196 Homburg-Erbach
Observer W. Wiedemann. 0.28-m $f/5$ Schmidt-Cassegrain + CCD.

2019 AN_5, 3, 1, 0; (1685), 2, 1, 0; (9162), 9, 3, 7; (85275), 8, 3, 11; (420302), 10, 4, 13; (497135), 2, 1, 0; *[34, 6, 0∗, 2020/07/11–2020/08/09]*

198 Wildberg
Observer R. Apitzsch. 0.35-m $f/3.1$ reflector + CCD.

2008 QS, 16, 2, 3; 2012 RA_{43}, 4, 1, 0; 2016 NZ_{79}, 2, 1, 0; (58006), 2, 1, 0; (71648), 8, 1, 0; (114496), 5, 1, 0; (196860), 4, 1, 0; (203042), 5, 1, 0; (233176), 7, 1, 0; (248801), 8, 1, 0; (292674), 12, 2, 3; (300201), 10, 2, 3; (317941), 5, 1, 0; (385760), 5, 1, 0; (414058), 5, 1, 0; (440918), 5, 1, 0; (512915), 3, 1, 0; *[106, 17, 0∗, 2021/09/05–2021/09/08]*

203 GiaGa Observatory
Observers S. Foglia, G. Galli. Measurer G. Galli. 0.36-m $f/5.76$ Schmidt-Cassegrain + CCD.

2017 GL_7, 2, 1, 0; 2021 MG_1, 3, 1, 0; 2021 PP_2, 3, 1, 0; 2021 PW_4, 3, 1, 0; 2021 PF_5, 2, 1, 0; 2021 PJ_{27}, 2, 1, 0; 2021 QC_1, 3, 1, 0; 2021 QR_1, 2, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QL_3, 2, 1, 0; 2021 QN_3, 2, 1, 0; 2021 RA, 4, 1, 0; 2021 RH, 3, 1, 0; 2021 RB_1, 4, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 SG, 3, 1, 0; *[50, 18, 0∗, 2021/08/08–2021/09/17]*

204 Schiaparelli Observatory
Observers L. Buzzi, G. Galli, A. Aletti. Measurers A. Bezzolato, L. Buzzi, A. Aletti, G. Galli. 0.84-m $f/3.5$ reflector + CCD, 0.20-m $f/4$ reflector + CCD.

2003 UE_{432}, 2, 1, 0; 2003 YP_3, 2, 1, 0; 2005 TR_{45}, 2, 1, 0; 2006 PZ_{16}, 2, 1, 0; 2006 SL_{288}, 2, 1, 0; 2008 CD_6, 3, 1, 0; 2008 CV_{68}, 2, 1, 0; 2010 NG_1, 3, 1, 0; 2010 OP_{94}, 2, 1, 0; 2011 FR_{29}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2012 RG_{15}, 3, 1, 0; 2013 TZ_{159}, 2, 1, 0; 2013 UK_{27}, 2, 1, 0; 2014 MZ_{81}, 2, 1, 0; 2015 FC_{55}, 2, 1, 0; 2015 XH_{422}, 2, 1, 0; 2016 GG_{243}, 2, 1, 0; 2016 TX_{123}, 2, 1, 0; 2017 GL_7, 3, 1, 0; 2017 VZ_{20}, 2, 1, 0; 2018 BP, 2, 1, 0; 2018 NC, 3, 1, 0; 2018 RY_1, 3, 1, 0; 2020 PK, 2, 1, 0; 2020 PL_2, 3, 1, 0; 2021 EC_5, 2, 1, 0; 2021 KG_{10}, 2, 1, 0; 2021 LN_3, 3, 1, 0; 2021 MV, 2, 1, 0; 2021 ME_1, 3, 1, 0; 2021 MG_1, 3, 1, 0; 2021 MP_1, 3, 1, 0; 2021 NT_3, 3, 1, 0; 2021 PJ, 3, 1, 0; 2021 PO, 3, 1, 0; 2021 PV, 3, 1, 0; 2021 PJ_1, 3, 1, 0; 2021 PL_2, 3, 1, 0; 2021 PP_2, 3, 1, 0; 2021 PS_2, 3, 1, 0; 2021 PJ_4, 2, 1, 0; 2021 PW_4, 4, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PG_5, 3, 1, 0; 2021 PK_5, 3, 1, 0; 2021 PD_7, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PC_{10}, 3, 1, 0; 2021 PE_{10}, 2, 1, 0; 2021 PJ_{10}, 3, 1, 0; 2021 PE_{20}, 2, 1, 0; 2021 PJ_{27}, 3, 1, 0; 2021 QA, 3, 1, 0; 2021 QC, 3, 1, 0; 2021 QP, 2, 1, 0; 2021 QA_1, 3, 1, 0; 2021 QC_1, 3, 1, 0; 2021 QH_1, 3, 1, 0; 2021 QR_1, 2, 1, 0; 2021 QM_2, 3, 1, 0; 2021 QB_3, 5, 1, 0; 2021 QE_3, 2, 1, 0; 2021 QJ_3, 2, 1, 0; 2021 QL_3, 2, 1, 0; 2021 QN_3, 3, 1, 0; 2021 RC, 3, 1, 0; 2021 RH, 3, 1, 0; 2021 RP_2, 3, 1, 0; 2021 RS_2, 3, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RL_{15}, 2, 1, 0; (1217), 2, 1, 0; (1449), 2, 1, 0; (2886), 2, 1, 0; (3799), 2, 1, 0; (4075), 2, 1, 0; (4338), 2, 1, 0; (4669), 2, 1, 0; (6453), 2, 1, 0; (6622), 2, 1, 0; (6836), 2, 1, 0; (7168), 2, 1, 0; (7453), 2, 1, 0; (8068), 2, 1, 0; (8127), 3, 1, 0; (14451), 2, 1, 0; (14920), 2, 1, 0; (17480), 2, 1, 0; (18872), 2, 1, 0; (19877), 2, 1, 0; (21789), 2, 1, 0; (22121), 2, 1, 0; (22997), 2, 1, 0; (24122), 2, 1, 0; (24951), 2, 1, 0; (26238), 2, 1, 0; (26380), 2, 1, 0; (26820), 2, 1, 0; (28336), 3, 1, 0; (28580), 2, 1, 0; (30076), 2, 1, 0; (30225), 2, 1, 0; (30370), 2, 1, 0; (35917), 2, 1, 0; (38721), 2, 1, 0; (39994), 2, 1, 0; (41320), 2, 1, 0; (42802), 2, 1, 0; (42834), 2, 1, 0; (46013), 2, 1, 0; (46350), 2, 1, 0; (46482), 2, 1, 0; (47808), 2, 1, 0; (48495), 2, 1, 0; (48773), 2, 1, 0; (50068), 2, 1, 0; (50522), 2, 1, 0; (50853), 2, 1, 0; (51519), 2, 1, 0; (52142), 2, 1, 0; (53382), 3, 1, 0; (53527), 2, 1, 0; (54286), 2, 1, 0; (55174), 2, 1, 0; (56242), 2, 1, 0; (56438), 2, 1, 0; (57051), 2, 1, 0; (58924), 2, 1, 0; (58994), 2, 1, 0; (61088), 2, 1, 0; (61633), 2, 1, 0; (63919), 2, 1, 0; (66893), 3, 1, 0; (67531), 2, 1, 0; (67880), 2, 1, 0; (69915), 2, 1, 0; (70175), 2, 1, 0; (71486), 2, 1, 0; (73360), 2, 1, 0; (75152), 2, 1, 0; (76448), 2, 1, 0; (76664), 2, 1, 0; (77932), 2, 1, 0; (83606), 2, 1, 0; (83954), 2, 1, 0; (85277), 2, 1, 0; (87071), 2, 1, 0; (88228), 3, 1, 0; (88532), 2, 1, 0; (88676), 2, 1, 0; (89493), 2, 1, 0; (90508), 2, 1, 0; (91473), 2, 1, 0; (91981), 2, 1, 0; (95842), 2, 1, 0; (96871), 3, 1, 0; (97405), 2, 1, 0; (97476), 2, 1, 0; (97621), 2, 1, 0; (100120), 2, 1, 0; (100317), 2, 1, 0; (102478), 2, 1, 0; (103226), 2, 1, 0; (105380), 2, 1, 0; (108671), 2, 1, 0; (109936), 2, 1, 0; (110309), 2, 1, 0; (110999), 2, 1, 0; (111434), 2, 1, 0; (116188), 2, 1, 0; (117051), 2, 1, 0; (120085), 2, 1, 0; (122456), 2, 1, 0; (125037), 2, 1, 0; (125790), 2, 1, 0; (128213), 2, 1, 0; (130301), 2, 1, 0; (132147), 2, 1, 0; (133098), 2, 1, 0; (134766), 2, 1, 0; (137631), 2, 1, 0; (137673), 2, 1, 0; (142217), 3, 1, 0; (142272), 2, 1, 0; (143916), 2, 1, 0; (144317), 2, 1, 0; (144864), 2, 1, 0; (145381), 2, 1, 0; (146290), 2, 1, 0; (147890), 2, 1, 0; (152018), 2, 1, 0; (157552), 3, 1, 0; (157620), 2, 1, 0; (160193), 2, 1, 0; (162310), 2, 1, 0; (163449), 2, 1, 0; (164153), 2, 1, 0; (167689), 2, 1, 0; (167891), 2, 1, 0; (167936), 2, 1, 0; (170734), 2, 1, 0; (172308), 2, 1, 0; (172664), 2, 1, 0; (173389), 2, 1, 0; (174222), 2, 1, 0; (178453), 2, 1, 0; (180847), 2, 1, 0; (183668), 2, 1, 0; (194135), 2, 1, 0; (194435), 2, 1, 0; (194840), 2, 1, 0; (195918), 2, 1, 0; (196144), 2, 1, 0; (197229), 2, 1, 0; (198919), 2, 1, 0; (205921), 2, 1, 0; (206602), 2, 1, 0; (215151), 3, 1, 0; (215688), 2, 1, 0; (220147), 2, 1, 0; (229029), 2, 1, 0; (231130), 2, 1, 0; (232661), 2, 1, 0; (232842), 2, 1, 0; (232966), 2, 1, 0; (233147), 2, 1, 0; (235597), 2, 1, 0; (241551), 2, 1, 0; (248370), 4, 2, 4; (252379), 2, 1, 0; (261810), 2, 1, 0; (268708), 2, 1, 0; (270413), 2, 1, 0; (273228), 2, 1, 0; (278148), 2, 1, 0; (286142), 2, 1, 0; (293001), 2, 1, 0; (295514), 2, 1, 0; (297955), 2, 1, 0; (302576), 2, 1, 0; (307225), 2, 1, 0; (311097), 2, 1, 0; (313099), 2, 1, 0; (313569), 2, 1, 0; (319946), 2, 1, 0; (338390), 2, 1, 0; (359446), 2, 1, 0; (360084), 2, 1, 0; (374315), 2, 1, 0; (379491), 2, 1, 0; (385140), 2, 1, 0; (388441), 2, 1, 0; (403874), 2, 1, 0; (411735), 2, 1, 0; (428952), 2, 1, 0; (440700), 2, 1, 0; (440900), 2, 1, 0; (452982), 2, 1, 0; (462752), 2, 1, 0; (469262), 3, 1, 0; (477590), 2, 1, 0; (482421), 2, 1, 0; (483893), 2, 1, 0; (504625), 2, 1, 0; (506482), 3, 1, 0; (507371), 2, 1, 0; (524059), 2, 1, 0; (565406), 2, 1, 0; (576342), 2, 1, 0; *[599, 270, 0*, 2021/01/08–2021/09/14]*

209 Asiago Observatory, Cima Ekar-ADAS

Observers C. Barbieri, G. Pignata, S. Magrin, I. Bertini. Measurers G. Pignata, S. Magrin, G. Hahn, M. Hoffmann, S. Mottola.

2015 OJ_{69}, 3, 1, 0; *[3, 1, 0*, 2002/02/12]*

215 Buchloe

Observer W. Hasubick. 0.44-m $f/4.6$ reflector + CCD.

2021 OZ, 2, 1, 0; 2021 PH_2, 2, 1, 0; (144206), 3, 1, 0; (248370), 6, 2, 1; *[13, 4, 0*, 2021/08/11–2021/09/05]*

221 IAS Observatory, Hakos

Observer D. Husar. 0.2-m $f/3$ Riccardi-Honders + CCD.

2015 DP_{155}, 2, 1, 0; (1089), 3, 1, 0; (1327), 2, 1, 0; (2688), 3, 1, 0; (3455), 3, 1, 0; (5535), 3, 1, 0; (7394), 3, 1, 0; (27979), 3, 1, 0; (35340), 3, 1, 0; (39609), 3, 1, 0; (52003), 3, 1, 0; (64344), 3, 1, 0; (85234), 2, 1, 0; (85265), 3, 1, 0; (87891), 3, 1, 0; (99297), 3, 1, 0; (100642), 2, 1, 0; (102483), 3, 1, 0; (110498), 2, 1, 0; (116795), 3, 1, 0; (126990), 3, 1, 0; (139883), 3, 1, 0; (150071), 2, 1, 0; (152507), 3, 1, 0; (163517), 3, 1, 0; (172772), 3, 1, 0; (226199), 3, 1, 0; (234173), 3, 1, 0; (239281), 3, 1, 0; (240053), 3, 1, 0; *[84, 30, 0*, 2021/05/10–2021/06/21]*

240 Herrenberg Sternwarte

Observer H. Michels. 0.40-m $f/5$ reflector + CCD.

(12538), 3, 1, 0; *[3, 1, 0*, 2021/09/12]*

246 Kleť Observatory-KLENOT

Observers M. Tichý, J. Tichá, M. Honková, M. Tichý, J. Tichá, M. Kočer, M. Honková, M. Janda. Measurers M. Tichý, M. Tichý, M. Honková. 1.06-m $f/2.7$ reflector + 2048×2048 CCD, 1.06-m KLENOT Telescope + CCD. (01)

{1} 2010 RJ_{53}, 7, 1, 0; 2016 RS_{16}, 9, 1, 0; 2018 BB_{29}, 3, 1, 0; 2021 PC_{10}, 2, 1, 0; 2021 PY_{40}, 15, 2, 9; 2021 QN_3, 6, 1, 0; 2021 QV_6, 11, 2, 7; 2021 RA, 8, 1, 0; 2021 RS, 14, 2, 1; 2021 RZ, 6, 1, 0; 2021 RA_1, 5, 1, 0; 2021 RB_1, 12, 1, 0; 2021 RC_1, 2, 1, 0; 2021 RJ_1, 4, 1, 0; 2021 RN_1, 10, 1, 0; 2021 RT_1, 4, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RG_2, 16, 2, 1; 2021 RH_2, 12, 1, 0; 2021 RP_2, 12, 1, 0; 2021 RS_2, 6, 1, 0; 2021 RW_2, 6, 2, 1; 2021 RF_3, 2, 1, 0; 2021 RG_3, 3, 1, 0; 2021 RL_3, 9, 2, 5; 2021 RM_3, 12, 1, 0; 2021 RQ_3, 7, 2, 1; 2021 RU_3, 8, 1, 0; 2021 RW_3, 5, 1, 0; 2021 RA_4, 7, 1, 0; 2021 RK_4, 4, 1, 0; 2021 RP_4, 3, 1, 0; 2021 RQ_4, 6, 1, 0; 2021 RT_4, 2, 1, 0; 2021 RW_4, 5, 1, 0; 2021 RR_5, 4, 1, 0; 2021 RS_5, 14, 2, 1; 2021 RB_6, 10, 1, 0; 2021 RG_6, 6, 1, 0; 2021 RH_6, 7, 1, 0; 2021 RJ_6, 5, 1, 0; 2021 RK_6, 6, 1, 0; 2021 RY_6, 12, 2, 4; 2021 RU_7, 7, 1, 0; 2021 RC_8, 3, 1, 0; 2021 RO_9, 2, 1, 0; 2021 RQ_9, 7, 1, 0; 2021 RC_{10}, 23, 2, 1; 2021 RG_{12}, 6, 1, 0; 2021 RJ_{14}, 6, 1, 0; 2021 RK_{14}, 14, 2, 1; 2021 RL_{14}, 13, 2, 1; 2021 RD_{16}, 5, 1, 0; 2021 RF_{16}, 7, 1, 0; (460), 16, 1, 0; (2526), 15, 1, 0; (3219), 9, 1, 0; (3594), 9, 1, 0; (3862), 6, 1, 0; (3991), 8, 1, 0; (4760), 8, 1, 0; (5548), 6, 1, 0; (6919), 6, 1, 0; (8402), 14, 1, 0; (13734), 7, 1, 0; (14151), 9, 1, 0; (14876), 8, 1, 0; (15067), 7, 1, 0; (17461), 10, 1, 0; (17684), 8, 1, 0; (18696), 5, 1, 0; (18969), 7, 1, 0; (19323), 10, 1, 0; (21705), 9, 1, 0; (27224), 10, 1, 0; (32249), 30, 1, 0; (32412), 5, 1, 0; (37681), 10, 1, 0; (38398), 14, 1, 0; (44874), 8, 1, 0; (45141), 7, 1, 0; (45755), 13, 1, 0; (48308), 6, 1, 0; (48323), 11, 1, 0; (52612), 17, 1, 0; (52724), 6, 1, 0; (55438), 5, 1, 0; (61973), 6, 1, 0; (64019), 8, 1, 0; (65231), 6, 1, 0; (67727), 13, 1, 0; (72460), 8, 1, 0; (72613), 7, 1, 0; (80411), 5, 1, 0; (80514), 6, 1, 0; (87751), 8, 1, 0; (93501), 8, 1, 0; (98719), 7, 1, 0; (100272), 13, 1, 0; (105347), 8, 1, 0; (105820), 6, 1, 0; (108750), 8, 1, 0; (112283), 8, 1, 0; (129881), 5, 1, 0; (129914), 17, 1, 0; (134650), 9, 1, 0; (149567), 8, 1, 0; (150000), 4, 1, 0; (163601), 12, 1, 0; (167005), 7, 1, 0; (187430), 7, 1, 0; (188681), 5, 1, 0; (195438), 8, 1, 0; (195766), 6, 1, 0; (234242), 9, 1, 0; (241977), 8, 1, 0; (242709), 12, 1, 0; (290151), 6, 1, 0; (316883), 5, 1, 0; (330994), 5, 1, 0; (331815), 8, 1, 0; (334562), 5, 1, 0; (336495), 4, 1, 0; (339406), 6, 1, 0; (413343), 9, 1, 0; (504744), 6, 1, 0; (505811), 8, 1, 0; (579624), 5, 1, 0; *[1031, 128, 0*, 2011/11/29–2021/09/14]*

247 Roving Observer

Observers C. Pin-ferrier, R. B. Glassey, J. Pickering, A. De Pieri, K. Fukui, A. Verveen, E. Friday, F. Thierry, M. Billiani, B. Parker, N. Yoblonsky, S. Kardel, T. Goto, J. Randolph, N. Meneghelli, R. Knight. Measurers C. Pin-ferrier, R. B. Glassey, J. Asencio, F. Marchis, A. De Pieri. 0.25-m $f/5$ refractor + CCD, 0.15-m $f/5.0$ Newtonian reflector + CCD.

2005 OG_3, 12, 2, 8; 2011 LD_{20}, 12, 2, 29; 2012 KK_{18}, 18, 3, 14; 2016 AJ_{193}, 406, 3, 2; 2021 JH_2, 16, 2, 2; 2021 JQ_{24}, 12, 2, 2; 2021 MO_1, 6, 1, 0; 2021 PT, 8, 1, 0; 2021 PR_2, 6, 1, 0; 2021 PJ_4, 6, 1, 0; 2021 PF_5, 6, 1, 0; 2021 PD_7, 8, 1, 0; 2021 PJ_{23}, 6, 1, 0; 2021 PY_{40}, 6, 1, 0; 2021 PO_{41}, 8, 1, 0; 2021 QC, 4, 1, 0; 2021 QB_3, 12, 1, 0; 2021 RA, 10, 1, 0; 2021 RX_5, 14, 2, 1; (594), 6, 1, 0; (2272), 6, 1, 0; (4045), 6, 1, 0; (7889), 6, 1, 0; (17568), 6, 1, 0; (40610), 6, 1, 0; (55532), 6, 1, 0; (66846), 6, 1, 0; (68063), 180, 2, 1; (109315), 6, 1, 0; (162186), 8, 1, 0; (237805), 6, 1, 0; (247484), 6, 1, 0; (285571), 5362, 19, 17; (303250), 30, 4, 27; (377379), 6, 1, 0; (475111), 6, 1, 0; *[6234, 36, 0*, 2021/07/21–2021/09/15]*

250 Hubble Space Telescope

Observers C. Pin-ferrier, R. B. Glassey, J. Pickering, A. De Pieri, K. Fukui,

2006 KP_{156}, 12, 1, 0; *[12, 1, 0*, 2000/02/21]*

258 Gaia

Observers P. Tanga, J. Berthier, B. Carry, A. DellOro, G. Fedorets, K. Muinonen, T. Pauwels, J. M. Petit, W. Thuillot, F. Mignard, D. Pedro.

2006 QE_{26}, 52, 1, 0; 2018 UJ_{31}, 76, 2, 1; 2020 HY_{13}, 56, 1, 0; 2021 PO_{41}, 48, 2, 1; *[232, 4, 0*, 2021/07/28–2021/08/02]*

260 Siding Spring Observatory-DSS

Measurer E. Colombini. 1.2-m Schmidt. {5}

{5} (4183), 1, 1, 0; *[1, 1, 0*, 1982/10/12]*

270 Unistellar Network, Roving Observer

Observer A. Anonymous. Measurers J. Asencio, F. Marchis.

(68063), 40, 2, 9; *[40, 1, 0*, 2021/08/20–2021/08/29]*

290 Mt. Graham-VATT

Observers R. P. Boyle, V. Laugalys, J. Stott, K. Černis. Measurer K. Černis. 1.83-m f/9.2 reflector + CCD, 1.80-m f/9.2 reflector + CCD. (05)

{5} 2008 TO_{230}, 12, 2, 1; 2012 BV_{184} *, 7, 1, 0; 2012 WZ_{43} *, 6, 1, 0; 2015 YA_{14}, 6, 1, 0; 2018 XZ_{32}, 6, 1, 0; 2021 NY_{30}, 2, 1, 0; 2021 PC_{77}, 9, 1, 0; (39246), 6, 1, 0; (333843), 6, 1, 0; (488775), 2, 1, 0; (542955), 6, 1, 0; *[68, 11, 2*, 2010/05/12–2021/02/11]*

291 LPL/Spacewatch II

Observers A. S. Descour, T. H. Bressi, R. S. McMillan, A. F. Tubbiolo, J. V. Scotti, J. A. Larsen, M. Block, M. T. Read, A. E. Gleason, T. Gehrels, R. A. Mastaler, M. J. Brucker, T. G. T. H. B. J. A. Larsen, M. B. A. S. Descour. Measurers P. IMPACT, M. T. Read, R. A. Mastaler, T. H. Bressi, J. V. Scotti, M. J. Brucker, A. F. Tubbiolo. 1.8-m Spacewatch telescope + CCD, 1.8-m f/2.7 reflector + CCD.

1994 UX_8, 3, 1, 0; 1998 TC_{24}, 3, 1, 0; 2001 RP_{158}, 3, 1, 0; 2001 TP_{260}, 3, 1, 0; 2001 TZ_{269} *, 3, 1, 0; 2002 CB_{329}, 3, 1, 0; 2002 GG_{198}, 3, 1, 0; 2002 GH_{198} *, 3, 1, 0; 2003 AO_{85}, 3, 1, 0; 2003 EQ_{65} *, 6, 2, 20; 2003 QX_{125}, 3, 1, 0; 2003 SM_{472}, 3, 1, 0; 2003 SP_{472}, 3, 1, 0; 2003 SR_{472} *, 3, 1, 0; 2003 TS_{65}, 3, 1, 0; 2003 WL_{217}, 3, 1, 0; 2004 GU_{25}, 3, 1, 0; 2004 QF_{38}, 3, 1, 0; 2004 RM_{287}, 3, 1, 0; 2004 SG_{66}, 3, 1, 0; 2005 EW_{169}, 2, 1, 0; 2005 JC_{169}, 3, 1, 0; 2005 QO_{208}, 3, 1, 0; 2005 QP_{208}, 3, 1, 0; 2005 SW_{303}, 3, 1, 0; 2005 SZ_{303}, 3, 1, 0; 2005 TF_{220}, 3, 1, 0; 2005 TH_{220} *, 3, 1, 0; 2005 UW_{465}, 3, 1, 0; 2005 UK_{554}, 3, 1, 0; 2006 BS_{301}, 6, 1, 0; 2006 BT_{301}, 3, 1, 0; 2006 HQ_{160} *, 3, 1, 0; 2006 OU_{40}, 3, 1, 0; 2006 QN_{207} *, 3, 1, 0; 2006 SY_{457}, 3, 1, 0; 2006 UR_{28}, 3, 1, 0; 2006 WC_{235}, 6, 1, 0; 2006 XT_{82}, 3, 1, 0; 2007 AG_{38}, 3, 1, 0; 2007 RZ_{371}, 3, 1, 0; 2007 RO_{372}, 3, 1, 0; 2007 TE_{276}, 3, 1, 0; 2007 TK_{498} *, 3, 1, 0; 2007 VA_{115}, 3, 1, 0; 2007 VH_{377}, 6, 1, 0; 2007 VO_{378}, 3, 1, 0; 2007 VT_{378}, 3, 1, 0; 2008 AU_{155}, 3, 1, 0; 2008 DQ_{98}, 3, 1, 0; 2008 EG_{196}, 6, 2, 1; 2008 GH_{76}, 3, 1, 0; 2008 GO_{175}, 3, 1, 0; 2008 HW_{78}, 3, 1, 0; 2008 OO_{32}, 3, 1, 0; 2008 RR_{178}, 3, 1, 0; 2008 SX_{352}, 3, 1, 0; 2008 VJ_{105} *, 3, 1, 0; 2008 WV_{162}, 3, 1, 0; 2008 WN_{163} *, 3, 1, 0; 2008 WS_{163}, 3, 1, 0; 2009 AB_{64} *, 3, 1, 0; 2009 BC_{58}, 3, 1, 0; 2009 EY_{41}, 3, 1, 0; 2009 EZ_{41}, 3, 1, 0; 2009 HO_{126}, 3, 1, 0; 2009 RH_{83} *, 3, 1, 0; 2009 WN_{199}, 3, 1, 0; 2010 EM_{71}, 3, 1, 0; 2010 GU_{211}, 3, 1, 0; 2010 MU_7, 3, 1, 0; 2010 OH_6, 9, 2, 9; 2010 OF_{101}, 3, 1, 0; 2010 OF_{108}, 3, 1, 0; 2010 OT_{128}, 3, 1, 0; 2010 PK_{15}, 3, 1, 0; 2010 RJ_{215} *, 6, 2, 24; 2010 RL_{215}, 3, 1, 0; 2010 RS_{215}, 3, 1, 0; 2010 RW_{215} *, 3, 1, 0; 2010 RH_{218}, 3, 1, 0; 2010 TR_{225} *, 3, 1, 0; 2010 UX_{103}, 3, 1, 0; 2010 VS_{269}, 3, 1, 0; 2011 CD_{141} *, 3, 1, 0; 2011 KU_{58} *, 3, 1, 0; 2011 LA_{36}, 3, 1, 0; 2011 MX_{15}, 3, 1, 0; 2011 RN_{35}, 3, 1, 0; 2011 RO_{35}, 3, 1, 0; 2011 SM_{68}, 6, 2, 1; 2011 SU_{196}, 3, 1, 0; 2011 SU_{237}, 3, 1, 0; 2011 SG_{238}, 3, 1, 0; 2011 SW_{334}, 3, 1, 0; 2011 UN_{476}, 3, 1, 0; 2011 YM_{96}, 3, 1, 0; 2012 BM_{86}, 3, 1, 0; 2012 CX_{70}, 3, 1, 0; 2012 PO_{28}, 3, 1, 0; 2012 PU_{58}, 3, 1, 0; 2012 SV_{94}, 3, 1, 0; 2012 SW_{95}, 3, 1, 0; 2012 SA_{96}, 3, 1, 0; 2012 SD_{96}, 3, 1, 0; 2012 TM_{253}, 3, 1, 0; 2012 TN_{318}, 3, 1, 0; 2012 TQ_{376}, 3, 1, 0; 2012 TN_{377}, 3, 1, 0; 2012 UK_{235}, 3, 1, 0; 2012 WX_{43}, 3, 1, 0; 2012 XT_{175}, 3, 1, 0; 2013 AG_{204}, 3, 1, 0; 2013 CE_{38}, 3, 1, 0; 2013 CQ_{253}, 3, 1, 0; 2013 EJ_{178}, 3, 1, 0; 2013 GB_{29}, 3, 1, 0; 2013 GG_{161}, 3, 1, 0; 2013 HU_{62}, 3, 1, 0; 2013 HR_{71}, 3, 1, 0; 2013 QB_{48}, 3, 1, 0; 2013 SF_{79}, 3, 1, 0; 2013 TF_6, 3, 1, 0; 2013 TJ_{226}, 3, 1, 0; 2013 XE_{22}, 2, 1, 0; 2014 CX_{34}, 3, 1, 0; 2014 EF_{37}, 3, 1, 0; 2014 GY_{86}, 3, 1, 0; 2014 HN_{232}, 3, 1, 0; 2014 JX_{124}, 3, 1, 0; 2014 ME_{96}, 3, 1, 0; 2014 OQ_{78}, 3, 1, 0; 2014 OD_{258}, 3, 1, 0; 2014 OM_{377}, 3, 1, 0; 2014 QF_{220}, 3, 1, 0; 2014 QP_{320}, 3, 1, 0; 2014 QX_{432}, 2, 1, 0; 2014 QE_{560}, 3, 1, 0; 2014 QJ_{561}, 3, 1, 0; 2014 SX_{90}, 3, 1, 0; 2014 SH_{134}, 3, 1, 0; 2014 SD_{349}, 6, 2, 22; 2014 TD_{114}, 3, 1, 0; 2014 UZ_{72}, 6, 2, 538; 2014 UT_{175}, 3, 1, 0; 2014 UB_{188}, 3, 1, 0; 2014 WY_{44}, 3, 1, 0; 2014 WO_{112}, 3, 1, 0; 2014 WF_{177}, 3, 1, 0; 2014 WM_{411}, 3, 1, 0; 2014 WG_{601}, 3, 1, 0; 2014 WJ_{601}, 3, 1, 0; 2014 WL_{601}, 3, 1, 0; 2014 XM_7, 2, 1, 0; 2014 XP_{22}, 3, 1, 0; 2014 YC_{49}, 3, 1, 0; 2015 AB_{273}, 3, 1, 0; 2015 AH_{304}, 3, 1, 0; 2015 BP_{149}, 3, 1, 0; 2015 BO_{265}, 3, 1, 0; 2015 DH_{198}, 2, 1, 0; 2015 EO_{61}, 2, 1, 0; 2015 FQ, 3, 1, 0; 2015 FY_{35}, 3, 1, 0; 2015 FU_{106}, 3, 1, 0; 2015 FY_{117}, 2, 1, 0; 2015 FV_{118}, 3, 1, 0; 2015 FJ_{186}, 3, 1, 0; 2015 HY_{116}, 2, 1, 0; 2015 HO_{223}, 3, 1, 0; 2015 LS_{24}, 3, 1, 0; 2015 MX_{53}, 4, 2, 16; 2015 ME_{184}, 3, 1, 0; 2015 ME_{185}, 3, 1, 0; 2015 ML_{186}, 3, 1, 0; 2015 NM_{36}, 3, 1, 0; 2015 ON_{151}, 3, 1, 0; 2015 PK_{88}, 3, 1, 0; 2015 PS_{227}, 2, 1, 0; 2015 PJ_{233}, 3, 1, 0; 2015 RJ_{155}, 6, 2, 1; 2015 TJ_{238}, 3, 1, 0; 2015 TP_{253}, 3, 1, 0; 2015 VX_1, 3, 1, 0; 2015 XG_{261}, 2, 1, 0; 2016 EQ_{309}, 3, 1, 0; 2016 FC_{81}, 3, 1, 0; 2016 FR_{81}, 3, 1, 0; 2016 GW_{47}, 3, 1, 0; 2016 GX_{228}, 3, 1, 0; 2016 HV_{13}, 3, 1, 0; 2016 NB_{150}, 3, 1, 0; 2016 NU_{152}, 3, 1, 0; 2016 NB_{153}, 3, 1, 0; 2016 PY_{214}, 3, 1, 0; 2016 QT_{25}, 3, 1, 0; 2016 QQ_{131}, 3, 1, 0; 2016 QK_{132}, 3, 1, 0; 2016 QT_{132}, 3, 1, 0; 2016 QD_{133}, 3, 1, 0; 2016 QE_{133}, 3, 1, 0; 2016 RR_{80}, 3, 1, 0; 2016 SD, 3, 1, 0; 2016 SY_{64}, 3, 1, 0; 2016 SL_{104}, 3, 1, 0; 2016 TF_{81}, 3, 1, 0; 2016 TT_{159}, 3, 1, 0; 2016 TN_{170}, 3, 1, 0; 2016 TS_{170}, 3, 1, 0; 2016 TS_{171}, 3, 1, 0; 2016 UB_{53}, 3, 1, 0; 2016 UH_{270}, 6, 1, 0; 2016 VT_{50}, 3, 1, 0; 2017 DV_{34}, 2, 1, 0; 2017 EQ_{13}, 5, 2, 7; 2017 FL_{62}, 3, 1, 0; 2017 FF_{198}, 3, 1, 0; 2017 NY_{20}, 3, 1, 0; 2017 OE_{36}, 3, 1, 0; 2017 OV_{126}, 3, 1, 0; 2017 OZ_{127}, 3, 1, 0; 2017 PB_{48}, 3, 1, 0; 2017 QE_{128}, 3, 1, 0; 2017 RV_{64}, 3, 1, 0; 2017 RU_{136}, 3, 1, 0; 2017 RS_{137}, 3, 1, 0; 2017 SL_{143}, 3, 1, 0; 2017 SB_{264}, 3, 1, 0; 2017 SZ_{265}, 3, 1, 0; 2017 SP_{272}, 3, 1, 0; 2017 SH_{274}, 3, 1, 0; 2017 TM_{40}, 3, 1, 0; 2017 UB_{31}, 3, 1, 0; 2017 UD_{45}, 3, 1, 0; 2017 UW_{58}, 3, 1, 0; 2017 UA_{71}, 3, 1, 0; 2017 UH_{152}, 3, 1, 0; 2017 UA_{154}, 3, 1, 0; 2017 VJ_2, 3, 1, 0; 2017 VS_{11}, 3, 1, 0; 2017 VA_{21}, 3, 1, 0; 2017 VH_{52}, 3, 1, 0; 2017 VT_{52}, 3, 1, 0; 2017 VH_{53}, 3, 1, 0; 2017 WB_{65}, 3, 1, 0; 2017 WA_{68}, 3, 1, 0; 2017 YO_{45}, 3, 1, 0; 2018 CB_5, 3, 1, 0; 2018 HW_8, 3, 1, 0; 2018 VL_{71}, 3, 1, 0; 2018 VQ_{148}, 3, 1, 0; 2018 VR_{148}, 3, 1, 0; 2019 AO_{83}, 3, 1, 0; 2019 DG_4, 3, 1, 0; 2019 FX_{26}, 3, 1, 0; 2019 GP_{114}, 3, 1, 0; 2019 GQ_{114}, 3, 1, 0; 2019 HZ_{11}, 3, 1, 0; 2019 NQ_{74}, 3, 1, 0; 2019 RP_{73}, 3, 1, 0; 2019 RR_{73}, 3, 1, 0; 2019 SW_{182}, 3, 1, 0; 2019 SA_{183}, 3, 1, 0; 2019 TN_{77}, 3, 1, 0; 2019 UD_{122}, 3, 1, 0; 2019 UF_{123}, 3, 1, 0; 2019 UG_{123}, 3, 1, 0; 2019 VJ_{33}, 3, 1, 0; 2020 BS_{92}, 3, 1, 0; 2020 FQ_{36}, 3, 1, 0; 2020 GN_{27}, 3, 1, 0; 2020 HH_{108}, 3, 1, 0; 2020 HW_{120}, 3, 1, 0; 2020 HF_{121}, 3, 1, 0; 2020 HO_{124}, 3, 1, 0; 2020 QV_6, 3, 1, 0; 2020 XV_{19}, 3, 1, 0; 2021 CL_{35}, 3, 1, 0; 2021 EH_4, 2, 1, 0; 2021 GY_1, 3, 1, 0; 2021 LJ_{11}, 3, 1, 0; 2021 LN_{21}, 3, 1, 0; 2021 MR_6, 3, 1, 0; 2021 MM_8, 3, 1, 0; 2021 MN_{13}, 3, 1, 0; 2021 MA_{14}, 3, 1, 0; 2021 NX_{23}, 3, 1, 0; 2021 NE_{24}, 3, 1, 0; 2021 NR_{39}, 3, 1, 0; 2021 NH_{44}, 3, 1, 0; 2021 NJ_{44}, 3, 1, 0; 2021 NL_{47}, 3, 1, 0; 2021 OH_2, 11, 4, 5; 2021 OC_8, 3, 1, 0; 2021 OM_9, 3, 1, 0; 2021 OW_9, 6, 2, 1439; 2021 OJ_{13}, 3, 1, 0; 2021 OV_{14}, 3, 1, 0; 2021 PE, 3, 1, 0; 2021 PF, 3, 1, 0; 2021 PH_1, 3, 1, 0; 2021 PS_2, 3, 1, 0; 2021 PX_4, 3, 1, 0; 2021 PN_5, 3, 1, 0; 2021 PQ_6, 3, 1, 0; 2021 PC_9, 6, 2, 13; 2021 PL_{15}, 3, 1, 0; 2021 PT_{16}, 2, 1, 0; 2021 PR_{21}, 6, 2, 1789; 2021 PB_{23}, 3, 1, 0; 2021 PP_{23}, 3, 1, 0; 2021 PA_{24}, 8, 3, 12; 2021 PJ_{46}, 3, 1, 0; 2021 PY_{48}, 3, 1, 0; 2021 PH_{57}, 3, 1, 0; 2021 PX_{64}, 3, 1, 0; 2021 PB_{65}, 3, 1, 0; 2021 PD_{77}, 3, 1, 0; 2021 PX_{78}, 3, 1, 0; 2021 PM_{100}, 3, 1, 0; 2021 QF, 5, 2, 10; 2021 QG, 3, 1, 0; 2021 QW, 3, 1, 0; 2021 QF_1, 8, 3, 9; 2021 QH_1, 3, 1, 0; 2021 QN_1, 2, 1, 0; 2021 QV_1, 2, 1, 0; 2021 QW_1, 3, 1, 0; 2021 QA_2, 6, 2, 2; 2021 QB_2, 5, 2, 5; 2021 QE_2, 3, 1, 0; 2021 QF_2, 3, 1, 0; 2021 QH_2, 3, 1, 0; 2021 QJ_2, 3, 1, 0; 2021 QK_2, 7, 3, 4; 2021 QN_2, 3, 1, 0; 2021 QR_2, 3, 1, 0; 2021 QD_3, 3, 1, 0; 2021 QE_3, 3, 1, 0; 2021 QK_3, 3, 1, 0; 2021 QO_3, 9, 3, 4; 2021 QK_4, 3, 1, 0; 2021 QZ_4, 3, 1, 0; 2021 QF_5, 5, 2, 2; 2021 QG_5, 9, 3, 10; 2021 QT_5, 3, 1, 0; 2021 QU_5, 6, 2, 8; 2021 QF_6, 3, 1, 0; 2021 QJ_6, 2, 1, 0; 2021 QQ_6, 3, 1, 0; 2021 QF_8, 2, 1, 0; 2021 QK_9, 3, 1, 0; 2021 QZ_{10}, 6, 1, 0; 2021 QD_{17}, 3, 1, 0; 2021 QB_{26}, 3, 1, 0; 2021 QN_{33}, 3, 1, 0; 2021 QX_{34}, 3, 1, 0; 2021 QB_{35}, 3, 1, 0; 2021 RC, 3, 1, 0; 2021 RN, 3, 1, 0; 2021 RQ, 3, 1, 0; 2021 RR, 3, 1, 0; 2021 RS, 3, 1, 0; 2021 RV, 3, 1, 0; 2021 RY, 2, 1, 0; 2021 RJ_1, 5, 2, 3; 2021 RN_1, 2, 1, 0; 2021 RA_2, 2, 1, 0; 2021 RL_2, 3, 1, 0; 2021 RN_2, 3, 1, 0; 2021 RK_3, 3, 1, 0; 2021 RO_3, 3, 1, 0; 2021 RT_3, 3, 1, 0; 2021 RU_3, 3, 1, 0; 2021 RX_3, 3, 1, 0; 2021 RB_4, 3, 1, 0; 2021 RT_4, 6, 2, 3; 2021 RY_4, 2, 1, 0; 2021 RD_5, 3, 1, 0; 2021 RO_5, 3, 1, 0; 2021 RS_5, 6, 2, 1; 2021 RV_5, 2, 1, 0; 2021 RL_6, 2, 1, 0; 2021 RN_6, 2, 1, 0; 2021 RD_7, 3, 1, 0; 2021 RV_7, 6, 2, 2; 2021 RS_9, 3, 1, 0; 2021 RB_{10}, 3, 1, 0; 2021 RJ_{10}, 3, 1, 0; 2021 RM_{10}, 3, 1, 0; 2021 RC_{12}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RK_{12}, 3, 1, 0; 2021 RM_{12}, 6, 2, 1; 2021 RN_{12}, 2, 1, 0; 2021 RO_{12}, 3, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RR_{14}, 3, 1, 0; 2021 RS_{14}, 3, 1, 0; 2021 RA_{15}, 8, 3, 3; 2021 RJ_{15}, 2, 1, 0; 2021 RC_{16}, 3, 1, 0; 2021 RJ_{16}, 2, 1, 0; 2021 RK_{16}, 3, 1, 0; 2021 RR_{16}, 3, 1, 0; 2021 RK_{19}, 3, 1, 0; 2021 SJ, 3, 1, 0; (429094), 3, 1, 0; (535221), 3, 1, 0; (580028), 3, 1, 0; (581775), 3, 1, 0; (583564), 3, 1, 0; (584598), 3, 1, 0; (584851), 3, 1, 0; (584866), 3, 1, 0; (584964), 3, 1, 0; (584993), 3, 1, 0; (585610), 3, 1, 0; *[1346, 418, 17*, 2001/09/19–2021/09/17]*

300 Bisei Spaceguard Center-BATTeRS

Observers A. Asami, N. Hashimoto, K. Nishiyama, S. Okumura, T. Sakamoto, S. Urakawa, T. Urata. 1.0-m f/3.0 reflector + CCD.

2015 TD_9, 4, 1, 0; *[4, 1, 0*, 2009/08/14]*

304 Las Campanas Observatory

Observers S. S. Sheppard, C. Sifon. Measurers D. J. Tholen, S. S. Sheppard. 6.5-m f/2.4 reflector.

2021 PH_{27}, 9, 2, 1; *[9, 1, 0*, 2021/08/14–2021/08/15]*

309 Cerro Paranal

Observers O. Hainaut, D. Koschny, M. Micheli, L. Conversi. Measurer M. Micheli. 8.2-m VLT + CCD. (15)

Observers M. Altmann, T. Prusti, D. Hestroffer, A. Cellino, P. Tanga, F. Spoto, B. Carry, T. Lister, J. Marchant, S. Eggl, R. Smart. Measurers C. Barache,

S. Bouquillon, T. Carlucci, F. Taris, W. Thuillot, R. Mendez, D. Souami, S. Souami. 2.6-m $f/5.5$ Ritchey-Chrétien + CCD. (16)

Observer G. Barentsen. 2.6-m $f/5.5$ Ritchey-Chrétien + CCD. (17)

{15} 2021 PD_{24}, 6, 1, 0; *[6, 1, 0∗, 2021/09/01]*

{16} 2002 TU_{307}, 9, 1, 0; 2005 RC_{62}, 10, 1, 0; 2005 UF_{554}, 10, 1, 0; 2006 HB_{96}, 10, 1, 0; 2006 QR_{206}, 7, 1, 0; 2006 YB_{19}, 8, 1, 0; 2007 SA_{27}, 8, 1, 0; 2008 AV_{155}, 10, 1, 0; 2008 PR_{24}, 10, 1, 0; 2008 SJ_{267}, 8, 1, 0; 2008 UJ_{373}, 6, 1, 0; 2008 UJ_{415}, 10, 1, 0; 2008 WW_{162}, 8, 1, 0; 2009 AK_{64}, 7, 1, 0; 2009 VX_{12}, 10, 1, 0; 2009 VV_{130}, 14, 1, 0; 2010 LE_{34}, 10, 1, 0; 2010 MP_{50}, 10, 1, 0; 2010 MH_{112}, 6, 1, 0; 2010 RY_{217}, 9, 1, 0; 2010 RF_{218}, 9, 1, 0; 2010 RJ_{218}, 10, 1, 0; 2010 TY_{101}, 18, 2, 2; 2010 TG_{227}, 10, 1, 0; 2011 FR_{48}, 10, 1, 0; 2011 HO_{110}, 10, 1, 0; 2011 UP_{476}, 5, 1, 0; 2012 BV_{183}, 4, 1, 0; 2012 UQ_{175}, 10, 1, 0; 2012 VL_{136}, 10, 1, 0; 2013 AK_{204}, 10, 1, 0; 2013 CM_{163}, 18, 2, 2; 2013 FW_{38}, 10, 1, 0; 2013 PS_{119}, 8, 1, 0; 2014 EM_{65}, 10, 1, 0; 2014 KL_{55}, 7, 1, 0; 2014 KR_{139}, 10, 1, 0; 2014 OQ_{454}, 9, 1, 0; 2014 QM_{188}, 10, 1, 0; 2014 SG_{96}, 10, 1, 0; 2014 SK_{152}, 10, 1, 0; 2014 SS_{178}, 10, 1, 0; 2014 SX_{272}, 19, 2, 450; 2014 SD_{401}, 10, 1, 0; 2014 WO_{601}, 10, 1, 0; 2014 YP_{91}, 9, 1, 0; 2015 DM_{296}, 10, 1, 0; 2015 FE_{181}, 8, 1, 0; 2015 HR_{223} ∗, 6, 1, 0; 2015 HS_{223} ∗, 10, 1, 0; 2015 JP_{25}, 4, 1, 0; 2015 JS_{25} ∗, 8, 1, 0; 2015 OA_{152}, 8, 1, 0; 2015 QN_{33} ∗, 6, 1, 0; 2015 RV_{344}, 10, 1, 0; 2015 TK_{109}, 10, 1, 0; 2015 VS_{206}, 9, 1, 0; 2015 XF_{480}, 10, 1, 0; 2016 BD_{130}, 7, 1, 0; 2016 BE_{130}, 10, 1, 0; 2016 BG_{130}, 10, 1, 0; 2016 CH_{127}, 10, 1, 0; 2016 GC_{172}, 9, 1, 0; 2016 GJ_{309}, 7, 1, 0; 2016 LM_{67}, 10, 1, 0; 2016 NK_{152}, 10, 1, 0; 2016 PU_{196}, 9, 1, 0; 2016 PS_{213} ∗, 10, 1, 0; 2016 PV_{213} ∗, 10, 1, 0; 2016 PS_{219}, 6, 1, 0; 2016 QO_{130}, 10, 1, 0; 2016 QC_{132}, 10, 1, 0; 2016 RM_{80}, 10, 1, 0; 2016 SH_{105}, 10, 1, 0; 2016 TR_{136}, 9, 1, 0; 2016 TL_{172}, 10, 1, 0; 2016 TJ_{173}, 10, 1, 0; 2016 UB_{53}, 8, 1, 0; 2016 YJ_{29}, 7, 1, 0; 2017 CU_{27}, 8, 1, 0; 2017 FT_{78}, 8, 1, 0; 2017 HU_{84}, 10, 1, 0; 2017 HQ_{85} ∗, 10, 1, 0; 2017 OT_{123}, 10, 1, 0; 2017 RR_{135}, 9, 1, 0; 2017 SM_{270}, 10, 1, 0; 2017 SM_{277}, 9, 1, 0; 2017 TN_{38} ∗, 9, 1, 0; 2017 TY_{38} ∗, 10, 1, 0; 2017 TR_{40} ∗, 10, 1, 0; 2017 UA_{149}, 10, 1, 0; 2017 VN_{52} ∗, 10, 1, 0; 2017 VN_{53} ∗, 10, 1, 0; 2018 NW_{37}, 10, 1, 0; 2018 NC_{38}, 9, 1, 0; 2018 PL_{66}, 18, 2, 1; 2018 UL_{37}, 16, 2, 2; 2018 VR_{145}, 8, 1, 0; 2018 VO_{147}, 8, 1, 0; 2018 VE_{148}, 16, 2, 2; 2018 VK_{149}, 8, 1, 0; 2019 AP_{85}, 10, 1, 0; 2019 AE_{86}, 6, 1, 0; 2019 CF_{19}, 9, 1, 0; 2019 EL_5 ∗, 10, 1, 0; 2019 FA_{27} ∗, 10, 1, 0; 2019 JU_{104}, 6, 1, 0; 2019 PL_{65}, 10, 1, 0; 2019 PB_{66}, 6, 1, 0; 2019 PC_{66}, 17, 2, 1; 2019 SW_{183}, 7, 1, 0; 2019 VO_{31}, 9, 1, 0; 2019 VG_{32}, 10, 1, 0; 2019 YW_{40}, 8, 1, 0; 2020 DS_{13}, 10, 1, 0; 2020 EB_3 ∗, 6, 1, 0; 2020 GW_{20}, 10, 1, 0; 2020 HL_{120}, 9, 1, 0; 2020 JM_{33}, 10, 1, 0; 2020 KU_{39}, 10, 1, 0; 2021 AR_{25}, 9, 1, 0; 2021 LC_{10}, 10, 1, 0; 2021 NZ_{14}, 5, 1, 0; 2021 OD_{10}, 10, 1, 0; 2021 PJ_{42}, 5, 1, 0; 2021 PU_{42}, 10, 1, 0; 2021 PW_{54}, 9, 1, 0; 2021 PT_{55}, 10, 1, 0; 2021 PE_{101}, 10, 1, 0; 2021 QG_8, 10, 1, 0; 2021 QZ_{10}, 9, 1, 0; 2021 QG_{14}, 17, 1, 0; 2021 QB_{16}, 10, 1, 0; 2021 QV_{34}, 7, 1, 0; (326732), 10, 1, 0; (552804), 10, 1, 0; *[1287, 136, 15∗, 2014/11/26–2021/08/31]*

{17} 2013 NH_{64}, 4, 1, 0; *[4, 1, 0∗, 2015/01/23]*

413 Siding Spring Observatory

Observers G. J. Garradd, R. H. McNaught. Measurer R. H. McNaught. 1.0-m $f/8$ reflector + CCD. (01)

Observers K. Sárneczky, L. Kiss. Measurer K. Sárneczky. 1.02-m reflector + CCD. (17)

{17} 2020 HY_{90}, 3, 1, 0; *[3, 1, 0∗, 2007/09/05]*

{1} 2007 EW_{54}, 3, 1, 0; 2010 PX_{91}, 3, 1, 0; *[6, 2, 0∗, 2003/04/21–2004/07/15]*

{2} 2006 AZ_{37}, 2, 1, 0; *[2, 1, 0∗, 1996/01/28]*

460 Area 52 Observatory, Nashville

Observer R. Clingan. 0.30-m Schmidt-Cassegrain + CCD.

2008 WT_{163}, 2, 1, 0; 2015 EP_{16}, 2, 1, 0; *[4, 2, 0∗, 2003/02/01–2003/12/30]*

461 University of Szeged, Piszkéstető Stn. (Konkoly)

Observers K. Sárneczky, Z. Kuli, A. Pál. Measurers S. Kürti, K. Sárneczky. 0.60-m Schmidt + CCD.

2010 HE_{10}, 3, 1, 0; 2010 NP_{106}, 4, 1, 0; 2010 OL_{116}, 3, 1, 0; 2010 TO_{227}, 3, 1, 0; 2014 OR_{458}, 4, 1, 0; 2015 FQ_{57}, 3, 1, 0; 2017 PD_{66}, 3, 1, 0; 2017 QT_{122}, 3, 1, 0; 2017 WF_{67}, 3, 1, 0; 2021 NG_{24}, 3, 1, 0; 2021 PW_{14}, 3, 1, 0; 2021 PS_{77}, 3, 1, 0; *[38, 12, 0∗, 2008/12/31–2013/09/29]*

474 Mount John Observatory, Lake Tekapo

Observers A. C. Gilmore, P. M. Kilmartin. Measurer P. M. Kilmartin. 1.0-m $f/7.7$ reflector + CCD.

2012 US_9, 4, 1, 0; 2015 BY_{380}, 3, 1, 0; 2020 XT_5, 4, 1, 0; 2021 KQ_7, 5, 1, 0; 2021 NS_1, 3, 1, 0; 2021 NO_5, 3, 1, 0; 2021 NU_5, 4, 1, 0; 2021 NY_5, 4, 1, 0; 2021 OX, 2, 1, 0; 2021 OJ_2, 4, 1, 0; 2021 PB, 4, 1, 0; 2021 PH, 3, 1, 0; 2021 PV, 3, 1, 0; 2021 PL_1, 2, 1, 0; 2021 PC_2, 2, 1, 0; 2021 PE_2, 5, 2, 3; 2021 PH_2, 12, 3, 3; 2021 PJ_2, 6, 2, 3; 2021 PP_2, 10, 3, 3; 2021 PQ_2, 3, 1, 0; 2021 PW_2, 4, 1, 0; 2021 PH_4, 4, 1, 0; 2021 PJ_4, 3, 1, 0; 2021 PY_4, 3, 1, 0; 2021 PZ_4, 3, 1, 0; 2021 PB_5, 3, 1, 0; 2021 PD_5, 4, 1, 0; 2021 PF_5, 4, 1, 0; 2021 PH_5, 11, 3, 3; 2021 PL_5, 3, 1, 0; 2021 PR_6, 2, 1, 0; 2021 PZ_6, 3, 1, 0; 2021 PQ_9, 2, 1, 0; 2021 PX_9, 2, 1, 0; 2021 PA_{10}, 4, 1, 0; 2021 PB_{10}, 4, 1, 0; 2021 PZ_{16}, 4, 1, 0; 2021 PN_{26}, 5, 1, 0; 2021 QR_1, 4, 1, 0; 2021 QK_5, 3, 1, 0; 2021 RK_{14}, 3, 1, 0; 2021 RN_{14}, 4, 1, 0; 2021 SB, 3, 1, 0; 2021 SF, 5, 1, 0; (413577), 4, 1, 0; *[180, 45, 0∗, 2021/08/09–2021/09/18]*

493 Calar Alto

Observers F. Hormuth, J. C. Datson. 1.23-m reflector + CCD.

2013 GH_{161}, 3, 1, 0; 2013 PN_{120}, 3, 1, 0; 2013 RV_{154} ∗, 3, 1, 0; 2014 SL_{401}, 3, 1, 0; 2019 AE_{85}, 3, 1, 0; 2020 FG_{37}, 3, 1, 0; 2021 ON_{19}, 3, 1, 0; *[21, 7, 1∗, 2009/02/12–2013/09/04]*

511 Haute Provence

Observers W. Thuillot, J. Desmars, K. Baillie, S. Bouquillon, B. Carry, P. David, M. Delbo, M. Dennefeld, D. Hestroffer, V. Robert, F. Spoto, P. Tanga, F. Taris. Measurers W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache. 1.20-m $f/6$ reflector + CCD.

2021 RO, 3, 1, 0; 2021 RY_2, 8, 1, 0; *[11, 2, 0∗, 2021/09/04–2021/09/06]*

557 Ondřejov

Observers P. Kušnirák, K. Hornoch, H. Kucakova, P. Fatka. 0.65-m $f/3.6$ reflector + CCD.

2019 NC_1, 16, 3, 2; (1943), 14, 4, 11; (7822), 11, 1, 0; (83579), 5, 1, 0; (87601), 4, 1, 0; (89473), 5, 1, 0; (135672), 7, 1, 0; (203969), 4, 1, 0; (326732), 64, 12, 46; (360413), 3, 1, 0; *[133, 10, 0∗, 2021/07/29–2021/09/14]*

568 Mauna Kea

Observers M. Micheli, D. J. Tholen, G. T. Elliott, M. W. Buie, F. Nakata, A. Parker, M. C. Kotson, P. Forshay, S. Sheppard. Measurers D. J. Tholen, G. T. Elliott. 2.24-m University of Hawaii reflector, 8.2-m reflector, 2.24-m University of Hawaii reflector + 2048 CCD, 3.6-m Canada-France-Hawaii Telescope. (02)

Observer Q. s. observers. Measurers D. D. Balam, K. Perrett. 3.6-m Canada-France-Hawaii Telescope + MegaCam. (09)

Observers q.-s. observers, Q. s. observers. Measurers P. A. Wiegert, A. Papadimos, A. M. Gilbert, D. D. Balam, R. Rasmussen, D. Subasinghe, A. L. Moss, S. Popa. 3.6-m Canada-France-Hawaii Telescope + MegaCam. (19)

Observers F. Bernardi, A. Boattini, D. J. Tholen. Measurer A. Boattini. 8.2-m reflector, 3.6-m Canada-France-Hawaii Telescope + MegaCam. (20)

Observer S. Gwyn. 3.6-m Canada-France-Hawaii Telescope. (26)

Observers R. Wainscoat, L. Wells, H. Flewelling, H. Januszewski, N. Manset, M. Laychak, Y. Ramanjooloo, T. Burdullis, C. Cunningham. Measurers R. Weryk, R. Wainscoat, Y. Ramanjooloo. 3.6-m Canada-France-Hawaii Telescope + CCD, 2.24-m University of Hawaii reflector + CCD. (28)

Observers P. Forshay, M. Micheli, A. Draginda, K. J. Meech, E. Bufanda, J. Kleyna, J. V. Keane. Measurers M. Micheli, J. Kleyna. 3.6-m Canada-France-Hawaii Telescope + CCD. (29)

Observers S. Urakawa, F. Yoshida, T. Terai. Measurer S. Urakawa. 8.2-m $f/2.0$ reflector + CCD. (37)

Observers M. T. Bannister, J. J. Kavelaars, B. J. Gladman, J.-M. Petit, T. Burdullis. Measurers S. D. J. Gwyn, Y.-T. Chen, M. Alexandersen. 3.6-m Canada-France-Hawaii Telescope + CCD. (41)

Observers J. J. Kavelaars, W. E. Fraser, S. B. Porter, T. Terai, A. Verbiscer, F. Yoshida. Measurers R. Leiva, J. Spencer, T. Lauer, S. Benecchi, K. Singer, F. Glass, M. Skrutskie, A. Alexander, P. Hong, H. Reitsema, E. Lin, P. Lykawka, T. Ito, R. Marschall, A. Simpson, M. Banks, R. Ishimaru, T. Holt, M. Postman, C. Olkin, F. Yoshida, K. Arimatsu, V. Bray, A. Stern, R. Rufu, H. Throop, C. Ferrell, P. Quirico, P. Johnson, R. Elmaarry, D. Gerdes, J. Nuñez, P. Schenk, K. Runyon, N. Martin, A. Steffl, V. Klein, M. Horanyi, C. Hersman, A. Roos, J. Stansberry, A. Rhodens, S. Gwyn. 8.2-m Subaru Telescope + CCD. (49)

Observers T. Terai, J. Kleyna. Measurer J. Kleyna. 8.20-m reflector + CCD. (53)

Observers F. Yoshida, T. Terai, M. Brown, K. Batygin. Measurers F. Yoshida, A. Yamane. 8.2-m Subaru Telescope + CCD. (55)

{19} 2000 ON_{64}, 7, 3, 3; 2003 QX_{125}, 3, 1, 0; 2003 QA_{126}, 3, 1, 0; 2003 YU_{190}, 3, 1, 0; 2003 YV_{190}, 3, 1, 0; 2003 YW_{190}, 3, 1, 0; 2004 FP_{144}, 3, 1, 0; 2004 PF_{122}, 3, 1, 0; 2004 PG_{122}, 3, 1, 0; 2004 PJ_{122}, 3, 1, 0; 2004 RW_{251}, 3, 1, 0; 2004 XO_{199}, 3, 1, 0; 2005 BX_{56}, 3, 1, 0; 2005 BY_{56}, 3, 1, 0; 2005 BZ_{56}, 5, 1, 0; 2005 LT_{59}, 3, 1, 0; 2005 LX_{59}, 3, 1, 0; 2005 NU_{133}, 3, 1, 0; 2005 QO_{208}, 3, 1, 0; 2005 RU_{36}, 1, 1, 0; 2005 UU_{553}, 8, 1, 0; 2006 AG_{117}, 9, 1, 0; 2006 CK_{91}, 3, 1, 0; 2006 CN_{91}, 3, 1, 0; 2006 KL_{34}, 1, 1, 0; 2006 KP_{156}, 3, 1, 0; 2006 OT_{40}, 3, 1, 0; 2006 OU_{40}, 3, 1, 0; 2006 VR_{185}, 3, 1, 0; 2006 VS_{185}, 3, 1, 0; 2007 AF_{38}, 3, 1, 0; 2007 AG_{38}, 3, 1, 0; 2007 CX_{85}, 3, 1, 0; 2007 CY_{85}, 3, 1, 0; 2007 RY_{371}, 3, 1, 0; 2008 GH_{76}, 3, 1, 0; 2008 GW_{174}, 3, 1, 0; 2010 AJ_{164}, 3, 1, 0; 2010 CP_{276}, 3, 1, 0; 2010 DW_{114}, 3, 1, 0; 2010 FW_{145}, 3, 1, 0; 2010 HM_{140}, 3, 1, 0; 2010 NZ_{111}, 3, 1, 0; 2010 RV_{217}, 3, 1, 0; 2010 TJ_{225}, 3, 1, 0; 2010 WC_{32}, 3, 1, 0; 2011 CF_{141}, 1, 1, 0; 2011 CE_{142}, 3, 1, 0; 2011 FK_{170}, 6, 2, 1; 2011 GJ_{19}, 3, 1, 0; 2011 HH_{112}, 3, 1, 0; 2011 SO_{335}, 3, 1, 0; 2011 UO_{211}, 3, 1, 0; 2011 UU_{478}, 1, 1, 0; 2011 UF_{479}, 3, 1, 0; 2012 QB_{47}, 3, 1, 0; 2012 RV_{42}, 3, 1, 0; 2012 SA_{95}, 3, 1, 0; 2012 SK_{96}, 3, 1, 0; 2012 UF_{235}, 3, 1, 0; 2015 FO_{180}, 3, 1, 0; 2015 HX_{77}, 3, 1, 0; 2015 KB_{146}, 3, 1, 0; 2015 LD_{49}, 1, 1, 0; 2015 XA_{434}, 3, 1, 0; 2016 LE_{18}, 3, 1, 0; 2016 UO_{224}, 3, 1, 0; 2017 FP_{122}, 3, 1, 0; 2017 OP_{102}, 3, 1, 0; 2017 RF_{115}, 3, 1, 0; 2017 SK_{99}, 8, 1, 0; 2017 SC_{263}, 3, 1, 0; 2019 GK_{110}, 4, 2, 1; 2020 GP_{16}, 1, 1, 0; 2020 HV_{94}, 3, 1, 0; 2020 HN_{119}, 12, 1, 0; 2021 HQ_{19}, 1, 1, 0; 2021 KR_5, 3, 1, 0; 2021 LA_{12}, 3, 1, 0; 2021 MX_{10}, 3, 1, 0; 2021 NH_{21}, 3, 1, 0; 2021 QW_{10}, 3, 1, 0; (585000), 4, 2, 1; *[271, 83, 0*, 2003/08/31–2012/10/18]*

{20} 2007 LX_{23}, 3, 1, 0; 2013 UE_{48}, 3, 1, 0; 2013 VW_{70}, 3, 1, 0; 2017 SZ_{132}, 3, 1, 0; 2017 ST_{188}, 3, 1, 0; *[15, 5, 0*, 2005/10/24–2005/12/03]*

{2} 2005 RC_{62}, 2, 1, 0; 2006 TR_{112}, 3, 1, 0; 2008 SN_{351}, 6, 1, 0; 2011 UO_{479}, 3, 1, 0; 2013 JM_{79}, 3, 1, 0; 2015 DC_{296}, 4, 1, 0; (573758), 3, 1, 0; (585006), 2, 1, 0; *[26, 8, 0*, 2001/04/19–2013/12/10]*

{9} 2021 NU_{20}, 6, 1, 0; *[6, 1, 0*, 2003/08/29]*

{37} 2004 LX_{28}, 4, 1, 0; 2009 TC_{57}, 5, 1, 0; 2010 EQ_{85}, 5, 1, 0; 2011 CJ_{127}, 8, 1, 0; 2012 QH_{71}, 4, 1, 0; 2013 PS_{119}, 5, 1, 0; 2013 TW_{226}, 9, 1, 0; 2016 GY_{307}, 4, 1, 0; 2016 HZ_{33}, 3, 1, 0; 2016 LE_{93}, 5, 1, 0; 2017 QA_{16}, 4, 1, 0; 2017 QX_{130}, 4, 1, 0; 2017 SS_{77}, 4, 1, 0; 2021 LQ_{23}, 8, 1, 0; 2021 MW_{13}, 5, 1, 0; 2021 NQ_{20}, 5, 1, 0; (585123), 5, 1, 0; *[87, 17, 0*, 2015/01/26]*

{41} 2013 VZ_{70} *, 36, 19, 946; *[36, 1, 1*, 2013/08/09–2016/03/12]*

{49} 2020 KS_{11}, 12, 6, 77; 2020 KU_{11}, 10, 5, 29; 2020 KV_{11}, 8, 4, 77; 2020 KX_{11}, 4, 2, 2; 2020 KY_{11}, 4, 2, 2; *[38, 5, 0*, 2020/05/26–2020/08/14]*

{53} (585441), 8, 1, 0; *[8, 1, 0*, 2020/11/19]*

{55} 2016 UA_{271}, 9, 3, 2; 2016 UD_{273}, 4, 1, 0; *[13, 2, 0*, 2016/09/27–2016/09/29]*

{56} 2017 QW_{46}, 3, 1, 0; 2017 QZ_{122}, 3, 1, 0; *[6, 2, 0*, 2015/01/17–2017/08/18]*

{65} (440570), 3, 1, 0; *[3, 1, 0*, 2004/07/22]*

{26} 2000 QM_{247}, 4, 1, 0; 2004 PF_{122}, 8, 2, 1; 2004 TK_{380}, 8, 2, 1; 2005 QY_{208}, 4, 1, 0; 2006 DN_{217}, 12, 2, 1; 2007 HU_8, 12, 2, 1; 2007 RD_{210}, 4, 1, 0; 2008 CU_{223}, 8, 2, 1; 2008 GS_{168}, 8, 1, 0; 2008 TQ_{120}, 4, 1, 0; 2009 YV_5, 20, 2, 1; 2010 UU_6, 4, 1, 0; 2011 BC_{195}, 4, 1, 0; 2011 HH_{112}, 8, 2, 2; 2011 KW_{38}, 12, 2, 1; 2011 UT_{329}, 4, 1, 0; 2012 DO_{126}, 4, 1, 0; 2012 MN_{17}, 8, 2, 1; 2013 BR_{39}, 4, 1, 0; 2013 EK_{126}, 4, 1, 0; 2014 DM_{53}, 12, 3, 6; 2014 KO_{139}, 4, 1, 0; 2014 MU_{39}, 8, 2, 1; 2015 FG_{302}, 8, 2, 1; 2015 XJ_{30}, 12, 1, 0; 2015 XS_{68}, 8, 2, 1; 2016 CK_{162}, 4, 1, 0; 2016 JA_{52}, 4, 1, 0; 2017 HX_{84}, 4, 1, 0; 2018 RO_{61}, 12, 1, 0; 2019 AX_{86}, 4, 1, 0; 2019 PX_{64}, 4, 1, 0; 2020 HA_{67}, 8, 2, 1; 2020 HN_{120}, 8, 2, 1; (37117), 4, 1, 0; (62334), 4, 1, 0; (70025), 4, 1, 0; (193983), 4, 1, 0; (197671), 4, 1, 0; (199220), 4, 1, 0; (200839), 4, 1, 0; (222724), 4, 1, 0; (247146), 4, 1, 0; (278146), 4, 1, 0; (330453), 4, 1, 0; (338988), 4, 1, 0; (354729), 4, 1, 0; (359032), 8, 1, 0; (365127), 4, 1, 0; (372569), 4, 1, 0; (408315), 4, 1, 0; (436718), 4, 1, 0; (490268), 4, 1, 0; (520576), 4, 1, 0; (529953), 4, 1, 0; (542108), 4, 1, 0; (544476), 4, 1, 0; (547969), 4, 1, 0; (555370), 4, 1, 0; (568055), 4, 1, 0; (569725), 4, 1, 0; (570964), 4, 1, 0; (578152), 12, 2, 2; (578446), 4, 1, 0; (580040), 12, 2, 1; (580994), 4, 1, 0; (581518), 8, 2, 1; (585291), 2, 1, 0; *[402, 68, 0*, 2003/11/18–2019/01/09]*

{28} 2002 RG_{66}, 3, 1, 0; 2007 XK_{11}, 3, 1, 0; 2014 QU_{295}, 3, 1, 0; 2020 HU_{120}, 9, 1, 0; 2021 OC_5, 3, 1, 0; 2021 PT_3, 4, 1, 0; 2021 PP_4, 3, 1, 0; 2021 PV_4, 4, 1, 0; 2021 PX_4, 3, 1, 0; 2021 PZ_4, 3, 1, 0; 2021 PL_5, 3, 1, 0; 2021 PM_5, 3, 1, 0; 2021 PP_5, 3, 1, 0; 2021 PT_6, 3, 1, 0; 2021 PU_6, 3, 1, 0; 2021 PC_7, 3, 1, 0; 2021 PF_7, 4, 1, 0; 2021 PD_9, 4, 1, 0; 2021 PE_9, 3, 1, 0; 2021 PQ_9, 3, 1, 0; 2021 PR_9, 3, 1, 0; 2021 PA_{10}, 3, 1, 0; 2021 PB_{10}, 3, 1, 0; 2021 PB_{15}, 3, 1, 0; 2021 PC_{15}, 4, 1, 0; 2021 PR_{16}, 3, 1, 0; 2021 PT_{16}, 3, 1, 0; 2021 PU_{16}, 3, 1, 0; 2021 PM_{19}, 3, 1, 0; 2021 PN_{19}, 3, 1, 0; 2021 PO_{19}, 3, 1, 0; 2021 PF_{23}, 3, 1, 0; 2021 PK_{23}, 3, 1, 0; 2021 PL_{23}, 2, 1, 0; 2021 PM_{23} *, 6, 2, 5; 2021 PN_{23}, 5, 2, 8; 2021 PU_{23}, 1, 1, 0; 2021 PO_{26}, 3, 1, 0; 2021 PP_{26}, 5, 2, 7; 2021 PG_{27}, 3, 1, 0; 2021 PS_{36}, 5, 2, 5; 2021 PL_{39}, 2, 1, 0; 2021 PL_{40}, 3, 1, 0; 2021 PN_{40}, 3, 1, 0; 2021 PE_{52}, 3, 1, 0; 2021 QJ_1, 3, 1, 0; 2021 QP_5, 4, 1, 0; 2021 QR_5, 4, 1, 0; 2021 QU_5, 3, 1, 0; 2021 QZ_5, 4, 1, 0; 2021 QG_6, 3, 1, 0; 2021 QK_6, 4, 1, 0; 2021 QF_8, 3, 1, 0; 2021 RF_1, 3, 1, 0; 2021 RG_1, 3, 1, 0; 2021 RM_1, 3, 1, 0; 2021 RP_1, 4, 1, 0; 2021 RS_1, 3, 1, 0; 2021 RN_2, 3, 1, 0; 2021 RY_2, 3, 1, 0; 2021 RA_5, 4, 1, 0; 2021 RD_5, 3, 1, 0; 2021 RL_5, 3, 1, 0; 2021 RW_5, 2, 1, 0; 2021 RD_6, 3, 1, 0; 2021 RM_6, 3, 1, 0; 2021 RV_6, 3, 1, 0; 2021 RN_7, 4, 1, 0; 2021 RX_7, 6, 1, 0; 2021 RO_{10}, 3, 1, 0; 2021 RP_{10}, 3, 1, 0; 2021 RV_{10}, 4, 1, 0; 2021 RU_{11}, 3, 1, 0; 2021 RB_{12}, 3, 1, 0; 2021 RD_{12}, 4, 1, 0; 2021 RE_{12}, 6, 2, 4; 2021 RH_{12}, 4, 1, 0; 2021 RN_{12}, 3, 1, 0; 2021 RQ_{12}, 3, 1, 0; 2021 RH_{14}, 2, 1, 0; 2021 RQ_{14}, 6, 2, 4; 2021 RT_{14}, 6, 2, 4; 2021 RU_{14}, 3, 1, 0; 2021 RV_{14}, 4, 1, 0; 2021 RW_{14}, 4, 1, 0; 2021 RD_{15}, 3, 1, 0; 2021 RH_{15}, 3, 1, 0; 2021 RC_{16}, 4, 1, 0; 2021 RJ_{16}, 3, 1, 0; 2021 RS_{16}, 3, 1, 0; *[309, 90, 1*, 2021/08/05–2021/09/13]*

{29} 2010 VX_{267} *, 3, 1, 0; 2017 SS_{278}, 3, 1, 0; 2017 UQ_{153}, 3, 1, 0; 2020 HD_{126}, 3, 1, 0; (418993), 2, 1, 0; *[14, 5, 1*, 2010/11/08–2021/08/05]*

583 Odessa-Mayaki

Observer V. Kashuba. Measurers V. Troianskyi, S. Kashuba. 0.80-m $f/2.7$ reflector + CCD.

(956), 47, 3, 19; (3766), 14, 1, 0; (3859), 16, 1, 0; (4188), 14, 1, 0; (8017), 16, 1, 0; (10255), 13, 1, 0; (12886), 14, 1, 0; (14343), 24, 2, 3; (16681), 8, 1, 0; (17382), 10, 1, 0; (19993), 31, 2, 6; (23425), 5, 1, 0; (42613), 5, 1, 0; (56877), 13, 1, 0; (64995), 21, 2, 3; (67973), 8, 2, 3; (78193), 15, 1, 0; (83836), 23, 2, 3; (96927), 17, 2, 3; (104654), 12, 1, 0; (109729), 19, 2, 3; (112725), 12, 1, 0; (112834), 28, 2, 6; (115291), 4, 1, 0; (121163), 5, 1, 0; (122406), 9, 1, 0; (122749), 5, 1, 0; (137107), 12, 1, 0; (138626), 12, 2, 3; (151633), 14, 1, 0; (173998), 6, 1, 0; (174893), 37, 2, 6; (176574), 12, 2, 3; (214095), 4, 1, 0; (297665), 13, 2, 3; (419580), 4, 1, 0; *[522, 36, 0*, 2021/02/16–2021/09/09]*

587 Sormano

Observers E. Colzani, O. Guagnetti, L. Iachelini, A. Fumagalli, G. Ventre, M. Fedele. Measurer P. Sicoli. 0.5-m $f/6.8$ reflector + CCD.

2004 XJ_{29}, 3, 1, 0; 2008 CD_6, 3, 1, 0; 2021 PJ_{27}, 2, 1, 0; 2021 QE_1, 4, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QV_1, 2, 1, 0; 2021 QE_2, 2, 1, 0; 2021 QD_3, 2, 1, 0; 2021 RQ_9, 2, 1, 0; *[23, 9, 0*, 2021/08/11–2021/09/11]*

595 Farra dÍsonzo

Observers S. Aschi, E. Pettarin, U. Montanar, G. Panterotto, L. Bittesini. Measurers E. Pettarin, S. Aschi. 0.61-m $f/4.5$ reflector + CCD, 0.40-m $f/5.15$ reflector + CCD.

2004 XJ_{29}, 3, 1, 0; 2010 JM_{151}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2011 YQ_{10}, 3, 1, 0; 2012 QQ_{50}, 3, 1, 0; 2014 HO_{129}, 7, 2, 1; 2014 UU_{192}, 3, 1, 0; 2019 NC_1, 3, 1, 0; 2019 UD_4, 4, 1, 0; 2021 CH_2, 3, 1, 0; 2021 LH_9, 2, 1, 0; 2021 LQ_{24}, 2, 1, 0; 2021 PO, 5, 2, 2; 2021 PT, 3, 1, 0; 2021 PO_2, 3, 1, 0; 2021 PS_2, 3, 1, 0; 2021 PC_{10}, 3, 1, 0; 2021 PB_{15}, 2, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QC, 3, 1, 0; 2021 QP, 3, 1, 0; 2021 QC_1, 4, 1, 0; 2021 QE_1, 2, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QV_1, 3, 1, 0; 2021 QE_2, 2, 1, 0; 2021 QB_3, 12, 2, 1; 2021 QV_6, 3, 1, 0; 2021 RA, 4, 1, 0; 2021 RC, 3, 1, 0; 2021 RD, 2, 1, 0; 2021 RE, 3, 1, 0; 2021 RF, 5, 1, 0; 2021 RH, 4, 1, 0; 2021 RJ, 2, 1, 0; 2021 RK, 3, 1, 0; 2021 RQ, 2, 1, 0; 2021 RR, 2, 1, 0; 2021 RB_1, 4, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RT_1, 3, 1, 0; 2021 RG_2, 5, 1, 0; 2021 RH_2, 5, 1, 0; 2021 RP_2, 2, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RX_5, 3, 1, 0; 2021 RQ_9, 4, 1, 0; 2021 RC_{10}, 8, 2, 1; 2021 RU_{10}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 4, 1, 0;

2021 RJ_{14}, 4, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RO_{16}, 3, 1, 0; 2021 RD_{20}, 3, 1, 0; 2021 SG, 6, 1, 0; 2021 SM, 3, 1, 0; *[198, 57, 0*, 2021/08/20–2021/09/18]*

599 Campo Imperatore–CINEOS

Observers A. Boattini, A. D. Paola, D. Perna. Measurers A. Boattini, D. Perna, E. Dotto. 0.60-m $f/3$ Schmidt + CCD, 0.60-m $f/3.1$ Schmidt + CCD.

2003 QZ_{125} *, 3, 1, 0; 2013 WQ_{114}, 3, 1, 0; *[6, 2, 1*, 2003/08/22–2004/12/12]*

608 Haleakala-AMOS

Observers S. Pravdo, M. Hicks, K. Lawrence, P. Kervin, J. Africano, R. Maeda, R. Bambery, E. Helin, R. Thicksten. Measurers M. Kusiak, M. Żołnowski, E. Colombini. 1.2-m reflector + CCD, 1.2-m Schmidt + CCD.

2012 QN_{51}, 3, 1, 0; 2015 HR_{75}, 2, 1, 0; 2018 CW_5, 2, 1, 0; (16960), 3, 1, 0; *[10, 4, 0*, 2001/02/17–2003/07/02]*

621 Bergisch Gladbach

Observer W. Bickel. 0.60-m $f/5.2$ reflector + CCD, 0.40-m $f/5.9$ reflector + CCD.

2003 TS_{65}, 3, 1, 0; 2006 VR_{185} *, 3, 1, 0; 2007 QP_{20} *, 3, 1, 0; 2011 WN_{178}, 3, 1, 0; 2012 BY_{183} *, 3, 1, 0; 2012 TR_{375}, 3, 1, 0; 2016 GJ_{308}, 3, 1, 0; 2017 QE_{128}, 3, 1, 0; 2017 SC_{76}, 3, 1, 0; 2021 NL_9, 3, 1, 0; 2021 NC_{10}, 3, 1, 0; 2021 PY_{91}, 3, 1, 0; *[36, 12, 3*, 2006/02/02–2016/08/30]*

628 Mülheim-Ruhr

Observers A. Martin, K. Kleemann-Böker. Measurer A. Martin. 0.35-m $f/3.4$ reflector + CCD.

(25), 60, 12, 37; (588), 5, 1, 0; (849), 14, 3, 5; (23488), 3, 1, 0; (34116), 12, 4, 3; (66001), 6, 2, 1; (78911), 7, 2, 1; (102627), 7, 2, 1; (189486), 6, 2, 1; *[120, 9, 0*, 2021/08/12–2021/09/18]*

637 Hamburg-Himmelsmoor

Observer D. Husar. 0.12-m $f/6.9$ refractor + CCD.

(182), 2, 1, 0; (1051), 2, 1, 0; (3748), 2, 1, 0; (4286), 2, 1, 0; (4794), 2, 1, 0; *[10, 5, 0*, 2021/04/26]*

644 Palomar Mountain/NEAT

Observers R. Bambery, E. Helin, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten, M. Brown, D. MacDonald, E. F. Helin, K. Kuluhiwa. Measurers N. Team, R. Matson, A. Mimeev, R. J. Bouma. 1.2-m Schmidt + CCD, 1.2-m Oschin Schmidt + CCD.

2002 GG_{198} *, 6, 2, 49; 2002 QD_{158}, 1, 1, 0; 2002 TQ_{388}, 3, 2, 27; 2003 QY_{125} *, 3, 1, 0; 2003 SP_{335}, 3, 1, 0; 2003 SN_{472} *, 3, 1, 0; 2003 SW_{473}, 3, 1, 0; 2005 NY_{133}, 3, 1, 0; 2005 OK_{35}, 2, 1, 0; 2005 QQ_{208} *, 3, 1, 0; 2005 QW_{208} *, 9, 2, 4; 2006 XS_{82}, 3, 1, 0; 2007 AT_{37}, 3, 1, 0; 2007 HY_{114}, 3, 1, 0; 2010 FP_{126}, 3, 1, 0; 2010 TQ_{227}, 3, 1, 0; 2010 VQ_{269}, 3, 1, 0; 2011 QO_{40}, 3, 1, 0; 2011 WV_{182}, 3, 1, 0; 2012 CV_{70}, 3, 1, 0; 2012 TK_{195}, 3, 1, 0; 2013 EW_{163}, 3, 1, 0; 2013 KS_2, 1, 1, 0; 2013 KW_{21}, 3, 1, 0; 2013 PH_{12}, 3, 1, 0; 2013 PL_{42}, 3, 1, 0; 2013 PL_{54}, 3, 1, 0; 2013 QW_{103}, 3, 1, 0; 2014 HF_{138}, 2, 1, 0; 2015 AH_{55}, 3, 1, 0; 2015 CG_{14}, 1, 1, 0; 2015 DD_{125}, 3, 1, 0; 2015 FV_{370}, 3, 1, 0; 2015 MR_{183}, 3, 1, 0; 2015 NN_{36}, 3, 1, 0; 2015 VQ_{206}, 3, 1, 0; 2015 XX_{43}, 3, 1, 0; 2015 XQ_{292}, 3, 1, 0; 2016 GB_{216}, 3, 1, 0; 2016 NZ_{152}, 3, 1, 0; 2016 PY_{217}, 3, 1, 0; 2016 QU_{21}, 3, 1, 0; 2016 TZ_{28}, 3, 1, 0; 2016 TN_{160}, 3, 1, 0; 2016 UO_{69}, 3, 1, 0; 2016 UQ_{272}, 6, 1, 0; 2016 UR_{272}, 3, 1, 0; 2016 VS_{50}, 3, 1, 0; 2017 FK_{198}, 3, 1, 0; 2017 ND_{21}, 3, 1, 0; 2017 OL_{124}, 3, 1, 0; 2017 OG_{126}, 3, 1, 0; 2017 OZ_{127}, 3, 1, 0; 2017 QH_{10}, 3, 1, 0; 2017 QJ_{127}, 3, 1, 0; 2017 RJ_{41}, 3, 1, 0; 2017 RT_{83}, 3, 1, 0; 2018 RB_{62}, 3, 1, 0; 2018 TW_4, 3, 1, 0; 2019 AW_{33}, 3, 1, 0; 2019 RP_{73}, 3, 1, 0; 2020 DR_{13}, 3, 1, 0; 2020 HM_{122}, 3, 1, 0; 2021 LU_{28}, 3, 1, 0; 2021 NB_{29}, 3, 1, 0; 2021 NZ_{40}, 3, 1, 0; 2021 PD_{34}, 3, 1, 0; 2021 PG_{46}, 5, 2, 20; 2021 PL_{54}, 3, 1, 0; (524194), 3, 1, 0; (576301), 6, 1, 0; (585062), 3, 1, 0; (585417), 3, 1, 0; *[228, 73, 5*, 2001/07/19–2007/02/06]*

645 Apache Point-Sloan Digital Sky Survey

Observers SDSS Collaboration, D. Long, S. Snedden, A. N. Kleinman, S. Kleinman, M. Harvanek, S. Collaboration, P. Newman. Measurers Z. Ivezic, M. Jurić, R. H. Lupton, S. Tabachnik, T. Quinn, S. Kürti, R. Lupton, S. Deen. 2.50-m reflector + CCD, 2.5-m $f/5$ Ritchey-Chrétien + CCD, 2.5-m reflector + CCD.

1998 SY_{181} *, 4, 2, 6; 2000 SD_{10}, 5, 1, 0; 2001 QO_{339}, 2, 1, 0; 2001 TN_{242}, 2, 1, 0; 2001 TT_{252}, 2, 1, 0; 2001 VW_{138} *, 4, 2, 6; 2002 CB_{329} *, 4, 2, 27; 2002 CC_{329}, 2, 1, 0; 2003 EA_{64}, 2, 1, 0; 2003 FR_2, 5, 1, 0; 2003 GQ_{35}, 3, 1, 0; 2003 GY_{66} *, 4, 2, 26; 2003 GC_{67} *, 4, 2, 26; 2003 SK_{472} *, 6, 3, 26; 2003 SL_{472} *, 4, 2, 3; 2003 SP_{472}, 2, 1, 0; 2003 SQ_{473}, 2, 1, 0; 2003 SR_{473}, 2, 1, 0; 2003 TP_{65}, 2, 1, 0; 2003 TR_{65}, 2, 1, 0; 2003 UV_{387}, 2, 1, 0; 2003 UX_{416}, 2, 1, 0; 2003 UE_{449} *, 4, 2, 6; 2004 QB_2, 5, 1, 0; 2005 QV_{208}, 2, 1, 0; 2005 SE_{142}, 9, 3, 9; 2005 SD_{180}, 3, 1, 0; 2005 WN_{219}, 2, 1, 0; 2005 YZ_{216}, 2, 1, 0; 2005 YX_{233}, 3, 1, 0; 2006 KP_{156}, 2, 1, 0; 2006 QH_{207}, 2, 1, 0; 2006 SM_{246}, 2, 1, 0; 2006 TH_{144}, 4, 1, 0; 2006 UL_{277}, 2, 1, 0; 2007 CU_{85}, 2, 1, 0; 2007 ET_{242}, 2, 1, 0; 2007 VB_{81}, 6, 2, 3; 2007 YR_{25}, 2, 1, 0; 2007 YH_{96}, 2, 1, 0; 2007 YJ_{96}, 2, 1, 0; 2008 DQ_{98}, 2, 1, 0; 2008 FL_{121}, 2, 1, 0; 2008 GN_{168}, 3, 1, 0; 2008 GN_{175}, 2, 1, 0; 2008 HA_{44}, 6, 2, 27; 2008 SS_{135}, 2, 1, 0; 2008 UE_{104}, 2, 1, 0; 2008 UK_{199}, 5, 1, 0; 2008 UH_{415}, 2, 1, 0; 2008 YC_{194}, 2, 1, 0; 2009 DG_{59}, 2, 1, 0; 2009 HF_{126}, 2, 1, 0; 2009 MT_{11}, 6, 2, 9; 2009 SN_{409}, 5, 1, 0; 2009 VV_{130}, 2, 1, 0; 2009 WY_{236}, 2, 1, 0; 2010 EU_{143}, 2, 1, 0; 2010 EF_{157}, 2, 1, 0; 2010 GS_{176}, 3, 1, 0; 2010 NW_{67}, 4, 1, 0; 2010 OY_{50}, 2, 1, 0; 2010 RB_{216}, 2, 1, 0; 2010 RS_{217}, 2, 1, 0; 2010 RV_{217}, 2, 1, 0; 2011 CG_{141}, 2, 1, 0; 2011 JG_{23}, 3, 1, 0; 2011 QE_{82}, 4, 1, 0; 2011 QD_{115}, 2, 1, 0; 2011 QE_{115}, 2, 1, 0; 2011 QG_{115}, 2, 1, 0; 2011 SV_{334}, 2, 1, 0; 2011 SA_{335}, 2, 1, 0; 2011 SN_{335}, 2, 1, 0; 2011 SS_{335}, 2, 1, 0; 2011 US_{354}, 2, 1, 0; 2012 DP_{126}, 2, 1, 0; 2012 GW_{51}, 2, 1, 0; 2012 KU_{63}, 2, 1, 0; 2012 PR_{58}, 2, 1, 0; 2012 QH_{71}, 2, 1, 0; 2012 SY_{94}, 2, 1, 0; 2012 TA_{198}, 2, 1, 0; 2012 TA_{378}, 2, 1, 0; 2012 XT_{62}, 2, 1, 0; 2012 XF_{75}, 6, 2, 19; 2013 BO_{101}, 2, 1, 0; 2013 CK_{203}, 2, 1, 0; 2013 CR_{253}, 2, 1, 0; 2013 NL_{36}, 6, 2, 9; 2013 RP_{155}, 2, 1, 0; 2013 RK_{156}, 2, 1, 0; 2013 TF_{227}, 2, 1, 0; 2013 XW_{39}, 2, 1, 0; 2014 AN_{17}, 2, 1, 0; 2014 AR_{19}, 3, 1, 0; 2014 AP_{75}, 2, 1, 0; 2014 ES_{168}, 2, 1, 0; 2014 KM_{20}, 2, 1, 0; 2014 KA_{140}, 2, 1, 0; 2014 LW_{39}, 2, 1, 0; 2014 MO_{98}, 2, 1, 0; 2014 OU_{89}, 2, 1, 0; 2014 OD_{171}, 2, 1, 0; 2014 OF_{316}, 6, 2, 3; 2014 OS_{457}, 2, 1, 0; 2014 PC_{63}, 2, 1, 0; 2014 QC_{151}, 3, 1, 0; 2014 QJ_{319}, 2, 1, 0; 2014 QQ_{560}, 2, 1, 0; 2014 QK_{561}, 2, 1, 0; 2014 QW_{561}, 2, 1, 0; 2014 SS_{178}, 2, 1, 0; 2014 SR_{332}, 2, 1, 0; 2014 SC_{401}, 2, 1, 0; 2014 UM_{276}, 2, 1, 0; 2014 UQ_{276}, 2, 1, 0; 2014 WE_{260}, 2, 1, 0; 2014 YD_{17}, 2, 1, 0; 2014 YC_{49}, 2, 1, 0; 2014 YU_{91}, 4, 1, 0; 2015 AL_{240}, 2, 1, 0; 2015 BP_{466}, 2, 1, 0; 2015 FO_{180}, 2, 1, 0; 2015 FQ_{449}, 4, 2, 532; 2015 FD_{450}, 2, 1, 0; 2015 HK_{224}, 2, 1, 0; 2015 KG_{109}, 2, 1, 0; 2015 OQ_{28}, 6, 2, 9; 2015 OL_{61}, 2, 1, 0; 2015 SS_1, 2, 1, 0; 2015 TJ_3, 2, 1, 0; 2015 XS_{61}, 2, 1, 0; 2016 BT_{129}, 2, 1, 0; 2016 BT_{130}, 2, 1, 0; 2016 CB_{136}, 4, 1, 0; 2016 CH_{247}, 5, 1, 0; 2016 EM_{307}, 2, 1, 0; 2016 FH_{69}, 2, 1, 0; 2016 GN_{144}, 2, 1, 0; 2016 GF_{183}, 3, 1, 0; 2016 GC_{308}, 2, 1, 0; 2016 HT_{34}, 2, 1, 0; 2016 JF_{43}, 2, 1, 0; 2016 LW_{93}, 2, 1, 0; 2016 NZ_{134}, 2, 1, 0; 2016 NA_{150}, 2, 1, 0; 2016 NB_{152}, 2, 1, 0; 2016 PQ_{212}, 2, 1, 0; 2016 PQ_{216}, 2, 1, 0; 2016 QE_{96}, 2, 1, 0; 2016 QF_{133}, 2, 1, 0; 2016 QK_{134}, 2, 1, 0; 2016 RF_{79}, 2, 1, 0; 2016 RO_{81}, 2, 1, 0; 2016 SF_{103}, 2, 1, 0; 2016 TJ_{175}, 2, 1, 0; 2016 TQ_{175}, 2, 1, 0; 2016 TA_{176}, 5, 2, 1; 2016 WG_9, 13, 3, 4; 2016 WF_{21}, 2, 1, 0; 2016 YF_{29}, 2, 1, 0; 2017 FL_{62}, 2, 1, 0; 2017 FT_{198}, 2, 1, 0; 2017 GB_{16}, 3, 1, 0; 2017 KP_{44}, 2, 1, 0; 2017 OQ_{52}, 2, 1, 0; 2017 OL_{124}, 4, 1, 0; 2017 QT_{74}, 2, 1, 0; 2017 QH_{127}, 2, 1, 0; 2017 QL_{127}, 2, 1, 0; 2017 QS_{127}, 2, 1, 0; 2017 QV_{129}, 2, 1, 0; 2017 RJ_{136}, 2, 1, 0; 2017 RN_{137}, 2, 1, 0; 2017 SG_9, 2, 1, 0; 2017 SO_{139}, 2, 1, 0; 2017 SD_{163}, 2, 1, 0; 2017 SB_{264}, 2, 1, 0; 2017 SV_{264}, 2, 1, 0; 2017 TQ_1, 2, 1, 0; 2017 UX_{125}, 2, 1, 0; 2017 UT_{145}, 2, 1, 0; 2017 UZ_{149}, 2, 1, 0; 2017 UV_{153}, 2, 1, 0; 2017 VE_{53}, 2, 1, 0; 2017 VQ_{53}, 2, 1, 0; 2017 VU_{53}, 2, 1, 0; 2017 VY_{53}, 2, 1, 0; 2017 YT_{43}, 2, 1, 0; 2018 AS_{29}, 3, 1, 0; 2018 BU_{28}, 2, 1, 0; 2018 BK_{29}, 2, 1, 0; 2018 KK_8, 6, 2, 9; 2018 PJ_{11}, 2, 1, 0; 2018 RS_{61}, 2, 1, 0; 2018 VS_{147}, 2, 1, 0; 2018 VE_{149}, 2, 1, 0; 2019 CJ_{19}, 2, 1, 0; 2019 CL_{19}, 4, 1, 0; 2019 EK_5, 2, 1, 0; 2019 GY_{109}, 6, 2, 6; 2019 GD_{114}, 2, 1, 0; 2019 GN_{114}, 2, 1, 0; 2019 MU_{25}, 2, 1, 0; 2019 MY_{25}, 2, 1, 0; 2019 ND_{74}, 2, 1, 0; 2019 NX_{77}, 4, 1, 0; 2019 PJ_{65}, 2, 1, 0; 2019 PO_{67}, 5, 2, 29; 2019 RR_{73}, 2, 1, 0; 2019 RQ_{76}, 2, 1, 0; 2019 SZ_{169}, 2, 1, 0; 2019 SG_{182}, 2, 1, 0; 2019 TK_{77}, 2, 1, 0; 2019 UZ_{121}, 2, 1, 0; 2019 UZ_{122}, 2, 1, 0; 2019 VX_{32}, 2, 1, 0; 2019 WX_{20}, 2, 1, 0; 2020 BB_{90}, 2, 1, 0; 2020 BB_{92}, 2, 1, 0; 2020 BP_{92}, 4, 1, 0; 2020 BX_{92}, 2, 1, 0; 2020 CN_7, 2, 1, 0; 2020 DR_{13}, 2, 1, 0; 2020 DW_{13}, 2, 1, 0; 2020 HJ_{88}, 2, 1, 0; 2020 HP_{120}, 4, 1, 0; 2020 HU_{120}, 2, 1, 0; 2020 HV_{120}, 2, 1, 0; 2020 JZ_{33}, 2, 1, 0; 2020 JQ_{34}, 2, 1, 0; 2020 LV_{13}, 2, 1, 0; 2020 RW_{88}, 6, 2, 9; 2021 CM_{35}, 2, 1, 0; 2021 EJ_{14}, 3, 1, 0; 2021 GP_{63}, 3, 1, 0; 2021 GN_{127}, 5, 2, 37; 2021 GX_{158}, 3, 1, 0; 2021 JQ_{25}, 2, 1, 0; 2021 JE_{52}, 2, 1, 0; 2021 LG, 4, 2, 822; 2021 LL_{18}, 2, 1, 0; 2021 LV_{28}, 2, 1, 0; 2021 LU_{29}, 2, 1, 0; 2021 MK_{15}, 2, 1, 0; 2021 NZ_{20}, 2, 1, 0; 2021 NP_{26}, 2, 1, 0; 2021 NZ_{39}, 2, 1, 0; 2021 OE_6, 2, 1, 0; 2021 OS_8, 2, 1, 0; 2021 OC_9, 2, 1, 0; 2021 OH_{10}, 2, 1, 0; 2021 OX_{18}, 2, 1, 0; 2021 PS_{23}, 2, 1, 0; 2021 PE_{26}, 2, 1, 0; 2021 PW_{40}, 2, 1, 0; 2021 PU_{41}, 2, 1, 0; 2021 PE_{42}, 2, 1, 0; 2021 PF_{42}, 2, 1, 0; 2021 PV_{48}, 2, 1, 0; 2021 PX_{48}, 2, 1, 0; 2021 PR_{59}, 2, 1, 0; 2021 PK_{76}, 2, 1, 0; 2021 PG_{77}, 2, 1, 0; 2021 PD_{91}, 2, 1, 0; 2021 PE_{91}, 2, 1, 0; 2021 PF_{91}, 2, 1, 0; 2021 PG_{91}, 2, 1, 0; 2021 PN_{100}, 2, 1, 0; 2021 QR_6, 2, 1, 0; 2021 QW_6, 2, 1, 0; 2021 QD_8, 2, 1, 0; 2021 QR_{16}, 2, 1, 0; 2021 QU_{25}, 2, 1, 0; 2021 QV_{25}, 2, 1, 0; (584828), 2, 1, 0; (584877), 5, 1, 0; (584894), 2, 1, 0; (585043), 2, 1, 0; (585050), 2, 1, 0; (585250), 2, 1, 0; *[708, 282, 8*, 1998/09/19–2008/12/30]*

654 Table Mountain Observatory, Wrightwood-PHMC

Observers P. Choi, N. Saini, C. Zhai, R. Trahan, M. Shao.

2009 YY_{33}, 4, 1, 0; 2010 RJ_{53}, 3, 1, 0; 2016 RT_{17}, 3, 1, 0; 2020 HH_{120}, 4, 1, 0; 2021 PJ_4, 3, 1, 0; 2021 PW_4, 4, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PQ_6, 3, 1, 0; 2021 PZ_6, 9, 3, 5; 2021 PU_9, 5, 1, 0; 2021 PZ_9, 2, 1, 0; 2021 PC_{10}, 3, 1, 0; 2021 PE_{10}, 6, 2, 1; 2021 PF_{10}, 3, 1, 0; 2021 PH_{10}, 3, 1, 0; 2021 PA_{17}, 3, 1, 0; 2021 PD_{17}, 4, 1, 0; 2021 PD_{23}, 3, 1, 0; 2021 PJ_{23}, 6, 2, 1; 2021 PL_{23}, 4, 1, 0; 2021 PM_{23}, 4, 1, 0; 2021 PA_{24}, 7, 2, 1; 2021 QA, 3, 1, 0; 2021 QD, 4, 1, 0; 2021 QK_1, 4, 1, 0; 2021 QL_1, 4, 1, 0; 2021 QU_2, 3, 1, 0; 2021 QY_3, 3, 1, 0; 2021 QA_4, 4, 1, 0; 2021 QO_5, 3, 1, 0; 2021 QV_5, 4, 1, 0; 2021 QC_6, 3, 1, 0; 2021 RB, 4, 1, 0; 2021 RH, 4, 1, 0; 2021 RJ, 4, 1,

0; 2021 RC_1, 3, 1, 0; 2021 RE_1, 4, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RH_2, 4, 1, 0; 2021 RJ_2, 3, 1, 0; 2021 RT_3, 3, 1, 0; 2021 RV_3, 3, 1, 0; 2021 RV_7, 4, 1, 0; 2021 RO_9, 4, 1, 0; 2021 RZ_9, 4, 1, 0; 2021 RO_{10}, 3, 1, 0; 2021 RH_{12}, 2, 1, 0; 2021 RP_{14}, 3, 1, 0; 2021 RL_{15}, 3, 1, 0; 2021 RK_{16}, 8, 2, 1; 2021 RO_{16}, 3, 1, 0; 2021 RN_{19}, 3, 1, 0; 2021 SN, 2, 1, 0; *[198, 53, 0*, 2021/08/06–2021/09/17]*

658 Dominion Astrophysical Observatory

Observers D. D. Balam, C. E. Spratt. Measurers D. D. Balam, D. W. E. Green. 1.82-m reflector + CCD. (01)

{1} 2021 QB_3, 5, 1, 0; 2021 QN_3, 5, 1, 0; 2021 QB_4, 5, 1, 0; 2021 QJ_4, 4, 1, 0; 2021 QB_5, 5, 1, 0; 2021 RR_5, 5, 1, 0; 2021 RK_{14}, 5, 1, 0; 2021 RL_{14}, 5, 1, 0; *[39, 8, 0*, 2021/09/02–2021/09/14]*

688 Lowell Observatory, Anderson Mesa Station

Observer L. H. Wasserman. 1.8-m Perkins telescope + CCD. (05)

{5} 2006 UV_{390}, 2, 1, 0; 2015 BU_{352}, 2, 1, 0; 2019 RA_{75}, 2, 1, 0; (584818), 2, 1, 0; *[8, 4, 0*, 2004/05/20–2008/08/01]*

691 Steward Observatory, Kitt Peak-Spacewatch

Observers T. H. Bressi, R. S. McMillan, J. L. Montani, J. V. Scotti, M. T. Read, R. A. Mastaler, M. Block, A. F. Tubbiolo, A. E. Gleason, A.F.Tubbiolo, J. A. Larsen, K. C. Cochran, A. S. Descour, J.L.Montani, J.A.Larsen, T.Gehrels, R.S.McMillan, J.L. Montani, J.L. Montani & R.S. McMillan R.S.McMillan, R. Jedicke, T. Gehrels, M.T.Read, J.V.Scotti, T.H.Bressi, A.F.Tubbiolo R.S.McMillan, A.E.Gleason, tgehrels, M. J. Brucker, S. J. D. MacEwan, S.Sonnett, N. Danzl, I. M. F. A. F. T. T. A. C. R. S. M. R. Araiza, J. V. Scotti & R. S. McMillan, T. M. Bressi, R. A. Fevig, A.F.Tubbiolo T.H.Bressi, N. L. Chabot, T. Williams, J. Larsen, A. Tubbiolo. Measurers R. A. Mastaler, P. IMPACT, J. V. Scotti, M. T. Read, Program IMPACT, T. H. Bressi, Program IMPACT (v2.0), A. F. Tubbiolo, R. S. McMillan, M. J. Brucker, A. E. Gleason. 0.9-m $f/3$ reflector + CCD, 0.9-m Spacewatch telescope + CCD, 0.9-m $f/3$ reflector + CCD mosaic, 0.9-m Spacewatch Telescope + CCD, 0.9-m $f/5.0$ reflector + CCD, 0.9-m $f/5$ reflector + CCD.

1991 PN, 3, 1, 0; 1994 UX_8, 3, 1, 0; 1995 WP_{18}, 6, 2, 8; 1996 VC_{29}, 3, 1, 0; 1998 WL_{45}, 3, 1, 0; 1999 TE_{277}, 3, 1, 0; 2000 SC_{190}, 3, 1, 0; 2000 TN_{30}, 3, 1, 0; 2000 UE_{115}, 3, 1, 0; 2000 WH_{52}, 3, 1, 0; 2000 YM_{22}, 3, 1, 0; 2001 CF_{50}, 3, 1, 0; 2001 QT_{144}, 6, 2, 25; 2001 QO_{339} *, 3, 1, 0; 2001 RP_{158} *, 9, 3, 1471; 2001 SU_{356}, 3, 1, 0; 2001 SY_{364} *, 6, 2, 26; 2001 TT_{252}, 3, 1, 0; 2001 TZ_{269}, 3, 1, 0; 2001 UD_{111}, 3, 1, 0; 2001 UH_{241} *, 6, 2, 5; 2001 VW_{138}, 6, 2, 14; 2002 CN_{267}, 6, 2, 17; 2002 CJ_{319}, 3, 1, 0; 2002 CB_{329}, 3, 1, 0; 2002 EP_{119}, 3, 1, 0; 2002 GG_{198}, 3, 1, 0; 2002 GH_{198}, 9, 3, 4040; 2002 RS_{260}, 6, 2, 2458; 2002 RZ_{295}, 6, 2, 2; 2003 EQ_{65}, 3, 1, 0; 2003 FB_{125}, 3, 1, 0; 2003 GC_{66}, 3, 1, 0; 2003 GY_{66}, 3, 1, 0; 2003 KV_{31}, 3, 1, 0; 2003 PW_{13} *, 3, 1, 0; 2003 QF_{76}, 3, 1, 0; 2003 QT_{125}, 6, 2, 10; 2003 QU_{125}, 3, 1, 0; 2003 QX_{125}, 6, 2, 6577; 2003 QY_{125}, 3, 1, 0; 2003 QZ_{125}, 6, 2, 10; 2003 QA_{126} *, 9, 3, 1925; 2003 SC_{366}, 3, 1, 0; 2003 SQ_{397}, 3, 1, 0; 2003 SK_{472}, 3, 1, 0; 2003 SM_{472} *, 3, 1, 0; 2003 SN_{472}, 3, 1, 0; 2003 SO_{472} *, 6, 2, 11; 2003 SP_{472} *, 9, 3, 977; 2003 SQ_{472} *, 6, 2, 13; 2003 SR_{472}, 6, 2, 21; 2003 SS_{472} *, 9, 3, 30; 2003 ST_{472} *, 6, 2, 28; 2003 SU_{472} *, 6, 2, 12; 2003 SP_{473} *, 6, 2, 11; 2003 SQ_{473} *, 3, 1, 0; 2003 SR_{473} *, 6, 2, 8; 2003 SS_{473} *, 6, 2, 19; 2003 ST_{473} *, 6, 2, 19; 2003 SU_{473} *, 9, 3, 2478; 2003 SV_{473} *, 12, 4, 3291; 2003 SW_{473} *, 6, 2, 38; 2003 TQ_{65} *, 6, 2, 18; 2003 TR_{65} *, 3, 1, 0; 2003 TS_{65} *, 9, 3, 1920; 2003 TT_{65} *, 6, 2, 14; 2003 TU_{65} *, 9, 3, 989; 2003 UX_{111}, 3, 1, 0; 2003 UB_{286}, 6, 2, 9; 2003 UR_{336}, 3, 1, 0; 2003 UM_{420}, 3, 1, 0; 2003 VY_6, 9, 3, 7990; 2003 WA_{202}, 3, 1, 0; 2003 WL_{217} *, 6, 2, 25; 2003 WM_{217} *, 9, 3, 4038; 2003 WN_{217} *, 6, 2, 14; 2003 YW_{190}, 3, 1, 0; 2004 FP_{74}, 3, 1, 0; 2004 FP_{144}, 3, 1, 0; 2004 GO_{90}, 3, 1, 0; 2004 HF_{80}, 3, 1, 0; 2004 PR_{96}, 3, 1, 0; 2004 PW_{118}, 3, 1, 0; 2004 PJ_{122} *, 6, 2, 8; 2004 QD_{38} *, 6, 2, 15; 2004 QE_{38} *, 3, 1, 0; 2004 QF_{38} *, 3, 1, 0; 2004 QG_{38} *, 3, 1, 0; 2004 QH_{38} *, 6, 2, 20; 2004 QJ_{38} *, 6, 2, 15; 2004 QK_{38} *, 6, 2, 15; 2004 RU_{214}, 3, 1, 0; 2004 RH_{285}, 3, 1, 0; 2004 RD_{297}, 3, 1, 0; 2004 RB_{300}, 3, 1, 0; 2004 RP_{366} *, 6, 2, 14; 2004 SF_{66} *, 6, 2, 1522; 2004 SG_{66} *, 3, 1, 0; 2004 TQ_{18}, 3, 1, 0; 2004 TT_{312}, 3, 1, 0; 2004 TU_{316}, 6, 2, 1930; 2004 TK_{326}, 3, 1, 0; 2004 TB_{359}, 3, 1, 0; 2004 TA_{387} *, 6, 2, 22; 2004 TB_{387} *, 3, 1, 0; 2004 VC_{135}, 3, 1, 0; 2004 VN_{138} *, 9, 3, 476; 2004 XN_{88}, 3, 1, 0; 2004 XM_{186}, 3, 1, 0; 2004 XA_{197}, 3, 1, 0; 2004 XO_{199}, 3, 1, 0; 2005 AP_{63}, 3, 1, 0; 2005 BR_{41}, 3, 1, 0; 2005 BP_{50}, 3, 1, 0; 2005 BE_{54}, 3, 1, 0; 2005 EF_{340}, 1, 1, 0; 2005 EH_{350}, 3, 1, 0; 2005 EJ_{350} *, 6, 2, 22; 2005 EU_{350} *, 6, 2, 1346; 2005 EV_{350}, 3, 1, 0; 2005 EW_{350}, 6, 2, 2740; 2005 GF_{241} *, 6, 2, 12; 2005 HC_{13} *, 12, 4, 2223; 2005 JF_{45}, 3, 1, 0; 2005 KN_{16}, 3, 1, 0; 2005 LW_{59}, 3, 1, 0; 2005 NF_{37}, 3, 1, 0; 2005 NH_{81}, 3, 1, 0; 2005 NN_{89}, 3, 1, 0; 2005 NU_{89}, 3, 1, 0; 2005 NA_{95}, 3, 1, 0; 2005 NC_{95}, 3, 1, 0; 2005 NY_{133} *, 3, 1, 0; 2005 PM_8, 3, 1, 0; 2005 QP_{108}, 3, 1, 0; 2005 QG_{111}, 3, 1, 0; 2005 QM_{208} *, 9, 3, 4029; 2005 QN_{208} *, 12, 4, 1341; 2005 QP_{208} *, 3, 1, 0; 2005 QQ_{208}, 6, 2, 17; 2005 QR_{208} *, 3, 1, 0; 2005 QS_{208} *, 6, 2, 1451; 2005 QU_{208} *, 9, 3, 4072; 2005 QV_{208} *, 6, 2, 11; 2005 QX_{208} *, 6, 2, 14; 2005 QY_{208} *, 3, 1, 0; 2005 RY_{61}, 3, 1, 0; 2005 RZ_{61} *, 3, 1, 0; 2005 RC_{62} *, 3, 1, 0; 2005 RD_{62} *, 3, 1, 0; 2005 SA_{304} *, 6, 2, 11; 2005 SB_{304} *, 9, 3, 1460; 2005 SC_{304}, 12, 4, 8080; 2005 TM_{97}, 3, 1, 0; 2005 TU_{185}, 3, 1, 0; 2005 TC_{220} *, 9, 3, 1524; 2005 TD_{220} *, 6, 2, 1449; 2005 TE_{220}, 6, 2, 3262; 2005 TH_{220}, 3, 1, 0; 2005 TV_{220} *, 3, 1, 0; 2005 TW_{220} *, 3, 1, 0; 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695 Kitt Peak

Observers M. W. Buie, S. D. Kern, L. H. Wasserman, D. E. Trilling, R. L. Millis, E. I. Chiang, J. R. Lovering, R. M. Wagner, J. F. Kane, A. B. Jordan, J. L. Elliot, E. L. Ryan, J. K. Bean, R. Sumner, S. E. Brown, L. K. Shank. Measurers M. W. Buie, L. H. Wasserman, R. L. Millis, J. L. Elliot, S. D. Kern, E. I. Chiang, J. F. Kane, K. B. Clancy, D. E. Trilling, J. R. Lovering, L. E. Hutchison, R. M. Wagner, E. Chaing, A. B. Jordan, S. N. Hylton, E. Chiang, K. D. Clancy, A. A. S. Gulbis, G. C. Panova, K. M. Deckker, M. J. Trimble, D. E. T. E. I. Chiang, J. J. Qu, J. M. Keller, B. L. Hotchkiss, S. R. Jones, A. J. Shaw, J. M. Bowen, R. M. Sterbentz, J. Z. Tuggle, C. V. Salyk, K. E. Washburn, J. K. Bean, R. Sumner, S. E. Brown, L. K. Shank, K. M. Dekker, N. R. Williams. 4-m $f/2.8$ reflector + 8K CCD + prime-focus corrector, 4-m telescope + CCD. (01)

Observers I. Dell'Antonio, D. Loomba, A. Becker, D. Wittman. Measurers A. Becker, D. Wittman. (03)

Observers L. H. Wasserman, J. R. Lovering, R. L. Millis. Measurers L. H. Wasserman, M. W. Buie, P. L. Collins, R. L. Millis, R. L. M. M. W. Buie. 4-m $f/2.8$ reflector + 8K CCD + prime-focus corrector, 4-m reflector + CCD. (23)

Observers R. A. Mastaler, J. V. Scotti. 2.3-m $f/9$ reflector + CCD. (45)

{23} 2002 GW_{27}, 2, 1, 0; 2004 QE_{38}, 2, 1, 0; 2004 QG_{38}, 2, 1, 0; 2004 TX_{386} *, 2, 1, 0; 2005 UY_{138}, 2, 1, 0; 2005 WT_{128}, 2, 1, 0; 2007 ET_{242}, 2, 1, 0; 2008 GH_{76}, 2, 1, 0; 2010 JL_{112}, 2, 1, 0; 2010 RR_{217}, 2, 1, 0; 2010 UF_{129}, 2, 1, 0; 2011 SV_{88}, 2, 1, 0; 2012 TL_{376}, 2, 1, 0; 2013 PW_{119}, 2, 1, 0; 2013 SM_{95}, 2, 1, 0; 2014 DU_{126}, 2, 1, 0; 2014 QH_{87}, 2, 1, 0; 2014 QL_{561}, 3, 1, 0; 2014 WN_{601}, 2, 1, 0; 2015 DJ_{296}, 3, 1, 0; 2015 PH_{19}, 2, 1, 0; 2015 SX_{49}, 3, 1, 0; 2016 RQ_{80}, 2, 1, 0; 2016 SN_{94}, 2, 1, 0; 2017 EA_{41}, 2, 1, 0; 2017 PF_5, 3, 1, 0; 2017 PC_{65}, 2, 1, 0; 2017 ST_{52}, 2, 1, 0; 2017 SF_{230}, 2, 1, 0; 2017 SA_{274}, 2, 1, 0; 2018 CE_5, 2, 1, 0; 2019 GM_{117}, 4, 2, 322; 2019 UP_{122}, 2, 1, 0; 2019 VE_{33}, 2, 1, 0; 2020 BU_{90}, 2, 1, 0; 2020 HP_{124}, 2, 1, 0; 2020 KG_{39}, 3, 1, 0; 2021 PC_{77}, 2, 1, 0; 2021 PM_{77}, 2, 1, 0; 2021 QX_{10}, 2, 1, 0; *[87, 40, 1*, 2004/10/10–2007/02/21]*

{1} 1991 PN, 2, 1, 0; 1995 SE_{56}, 2, 1, 0; 1996 VC_{29}, 2, 1, 0; 2001 SY_{364}, 2, 1, 0; 2002 CC_{329} *, 2, 1, 0; 2002 GW_{27}, 2, 1, 0; 2002 VH_{97}, 2, 1, 0; 2003 KV_{31}, 2, 1, 0; 2003 QT_{125}, 2, 1, 0; 2003 UB_{286}, 2, 1, 0; 2003 UE_{449}, 2, 1, 0; 2003 UF_{449} *, 4, 2, 29; 2004 SF_{66}, 2, 1, 0; 2004 TT_{312}, 2, 1, 0; 2004 TU_{316}, 2, 1, 0; 2004 TX_{386}, 6, 3, 590; 2005 EW_{350}, 2, 1, 0; 2005 UG_{554}, 2, 1, 0; 2005 WT_{128}, 2, 1, 0; 2006 CO_{91}, 2, 1, 0; 2006 JG_{61}, 2, 1, 0; 2006 QS_{14}, 2, 1, 0; 2006 TH_{144}, 2, 1, 0; 2006 WZ_{41}, 2, 1, 0; 2006 WP_{235}, 3, 1, 0; 2007 RH_{369}, 2, 1, 0; 2007 RO_{372}, 2, 1, 0; 2008 BF_{54}, 2, 1, 0; 2008 OW_4, 2, 1, 0; 2008 QT_{14}, 2, 1, 0; 2008 SL_{351}, 2, 1, 0; 2008 SU_{351}, 2, 1, 0; 2008 UK_{417}, 2, 1, 0; 2009 DO_{159}, 2, 1, 0; 2009 ER_{13}, 2, 1, 0; 2009 HO_{126}, 2, 1, 0; 2009 UU_{188}, 3, 1, 0; 2010 LY_{129}, 2, 1, 0; 2010 RB_{35}, 2, 1, 0; 2010 RH_{218}, 2, 1, 0; 2010 TN_{227}, 2, 1, 0; 2010 VK_{24}, 2, 1, 0; 2011 AJ_{104}, 3, 1, 0; 2011 AL_{104}, 2, 1, 0; 2011 BC_{203}, 2, 1, 0; 2011 FK_{55}, 3, 1, 0; 2011 FF_{96}, 2, 1, 0; 2011 KQ_{58}, 3, 1, 0; 2011 QE_{115}, 2, 1, 0; 2011 UH_{479}, 2, 1, 0; 2011 UL_{479}, 2, 1, 0; 2011 UY_{479}, 2, 1, 0; 2012 FS_{109}, 2, 1, 0; 2012 QC_{71}, 2, 1, 0; 2012 ST_{35}, 2, 1, 0; 2012 TE_{113}, 2, 1, 0; 2012 TQ_{235}, 2, 1, 0; 2012 TE_{377}, 3, 1, 0; 2012 TJ_{377}, 2, 1, 0; 2012 TM_{377}, 2, 1, 0; 2012 TB_{378}, 2, 1, 0; 2012 UN_{235}, 2, 1, 0; 2012 UY_{236}, 2, 1, 0; 2012 XU_{176}, 2, 1, 0; 2013 CE_{253}, 2, 1, 0; 2013 CT_{253}, 2, 1, 0; 2013 ES_{179}, 2, 1, 0; 2013 EW_{179}, 2, 1, 0; 2013 FE_{39}, 2, 1, 0; 2013 GB_{29}, 2, 1, 0; 2013 KW_{21}, 2, 1, 0; 2013 LC_{44}, 2, 1, 0; 2013 PL_{54}, 2, 1, 0; 2013 PG_{121}, 2, 1, 0; 2013 VX_{70}, 2, 1, 0; 2013 XR_5, 2, 1, 0; 2014 BQ_{27}, 2, 1, 0; 2014 HR_{232}, 2, 1, 0; 2014 KG_{59}, 2, 1, 0; 2014 PW_{97}, 3, 1, 0; 2014 QU_{207}, 2, 1, 0; 2014 QG_{235}, 2, 1, 0; 2014 QH_{558}, 2, 1, 0; 2014 QE_{560}, 2, 1, 0; 2014 QV_{560}, 2, 1, 0; 2014 QS_{561}, 3, 1, 0; 2014 RT_{52}, 2, 1, 0; 2014 RB_{86}, 2, 1, 0; 2014 SZ_{194}, 2, 1, 0; 2014 SB_{330}, 2, 1, 0; 2014 SK_{368}, 2, 1, 0; 2014 SO_{401}, 3, 1, 0; 2014 XP_{22}, 2, 1, 0; 2014 XF_{54}, 2, 1, 0; 2015 BH_{95}, 3, 1, 0; 2015 BK_{325}, 2, 1, 0; 2015 BD_{457}, 2, 1, 0; 2015 DQ_{296}, 3, 1, 0; 2015 DE_{297} *, 3, 1, 0; 2015 DM_{297}, 3, 1, 0; 2015 FY_{233}, 2, 1, 0; 2015 FM_{450}, 2, 1, 0; 2015 GD_{68} *, 3, 1, 0; 2015 KY_{204}, 3, 1, 0; 2015 MF_{184}, 4, 1, 0; 2015 MO_{185}, 2, 1, 0; 2015 PU_{22}, 2, 1, 0; 2015 PW_{86}, 2, 1, 0; 2015 RS_{140}, 2, 1, 0; 2015 XQ_{18}, 2, 1, 0; 2015 XH_{306}, 3, 1, 0; 2015 XE_{480}, 2, 1, 0; 2016 CV_{108}, 2, 1, 0; 2016 EF_{286}, 2, 1, 0; 2016 GT_{308}, 2, 1, 0; 2016 NN_{150}, 2, 1, 0; 2016 NW_{152}, 2, 1, 0; 2016 PG_{219}, 2, 1, 0; 2016 PJ_{219}, 3, 1, 0; 2016 TZ_{21}, 2, 1, 0; 2016 TQ_{126}, 2, 1, 0; 2016 TL_{174}, 2, 1, 0; 2016 UJ_{166}, 2, 1, 0; 2016 US_{263}, 2, 1, 0; 2016 UL_{270}, 2, 1, 0; 2016 UR_{270}, 2, 1, 0; 2017 DT_{143}, 2, 1, 0; 2017 KE_{44}, 2, 1, 0; 2017 NY_{20}, 2, 1, 0; 2017 OC_{125}, 1, 1, 0; 2017 PU_{65}, 2, 1, 0; 2017 QJ_{21}, 2, 1, 0; 2017 QV_{129}, 2, 1, 0; 2017 RG_{99}, 3, 1, 0; 2017 RP_{135}, 2, 1, 0; 2017 SF_{58}, 2, 1, 0; 2017 SW_{60}, 3, 1, 0; 2017 SW_{141}, 2, 1, 0; 2017 SM_{170}, 2, 1, 0; 2017 SN_{194}, 2, 1, 0; 2017 SJ_{264}, 2, 1, 0; 2017 SX_{273}, 2, 1, 0; 2017 SY_{273}, 2, 1, 0; 2017 SN_{276}, 2, 1, 0; 2017 SF_{277}, 2, 1, 0; 2017 SO_{278}, 2, 1, 0; 2017 TO_{39}, 2, 1, 0; 2017 UL_{143}, 2, 1, 0; 2017 UC_{152}, 2, 1, 0; 2017 VE_{53}, 2, 1, 0; 2017 VZ_{53}, 2, 1, 0; 2017 WG_{66}, 2, 1, 0; 2017 WL_{68}, 2, 1, 0; 2018 RN_{61}, 2, 1, 0; 2018 TO_{42}, 2, 1, 0; 2018 VS_{147}, 2, 1, 0; 2019 AO_{83}, 3, 1, 0; 2019 GG_{114}, 2, 1, 0; 2019 JJ_{104}, 2, 1, 0; 2019 LE_{28}, 2, 1, 0; 2019 MW_{25}, 2, 1, 0; 2019 NW_{77}, 2, 1, 0; 2019 NX_{77}, 2, 1, 0; 2019 OR_{37}, 3, 1, 0; 2019 OX_{37}, 2, 1, 0; 2019 PP_{64}, 2, 1, 0; 2019 PQ_{65}, 2, 1, 0; 2019 PT_{65}, 2, 1, 0; 2019 RN_{73}, 2, 1, 0; 2019 RN_{76}, 2, 1, 0; 2019 SJ_{182}, 2, 1, 0; 2019 TS_{77}, 2, 1, 0; 2019 UC_{123}, 2, 1, 0; 2019 VD_{33}, 2, 1, 0; 2020 GQ_{24}, 2, 1, 0; 2020 GL_{27}, 2, 1, 0; 2020 GZ_{27}, 2, 1, 0; 2020 HJ_{87}, 2, 1, 0; 2020 HH_{122}, 2, 1, 0; 2020 HK_{122}, 2, 1, 0; 2020 HH_{123}, 2, 1, 0; 2020 HC_{124}, 2, 1, 0; 2020 HN_{124}, 2, 1, 0; 2020 HB_{127}, 2, 1, 0; 2020 JA_{35}, 2, 1, 0; 2020 JB_{35}, 2, 1, 0; 2020 KP_{37}, 2, 1, 0; 2020 RG_{117}, 3, 1, 0; 2021 GP_{165}, 2, 1, 0; 2021 HQ_{19}, 2, 1, 0; 2021 NY_6, 2, 1, 0; 2021 NZ_{16}, 2, 1, 0; 2021 NB_{21}, 2, 1, 0; 2021 NA_{22}, 2, 1, 0; 2021 NQ_{42}, 2, 1, 0; 2021 NT_{49}, 2, 1, 0; 2021 OK_6, 2, 1, 0; 2021 PX_8, 2, 1, 0; 2021 PY_8, 2, 1, 0; 2021 PN_{11}, 2, 1, 0; 2021 PF_{14}, 2, 1, 0; 2021 PC_{20}, 4, 2, 29; 2021 PX_{23}, 2, 1, 0; 2021 PK_{26}, 2, 1, 0; 2021 PJ_{28}, 2, 1, 0; 2021 PR_{40}, 2, 1, 0; 2021 PH_{42}, 2, 1, 0; 2021 PZ_{44}, 2,

1, 0; 2021 PU_{54}, 2, 1, 0; 2021 PR_{57}, 2, 1, 0; 2021 PV_{77}, 2, 1, 0; 2021 PH_{91}, 2, 1, 0; 2021 PJ_{91}, 2, 1, 0; 2021 QF_4, 2, 1, 0; 2021 QD_7, 2, 1, 0; 2021 QD_{11}, 2, 1, 0; 2021 QO_{13}, 3, 1, 0; 2021 QS_{16}, 2, 1, 0; 2021 QM_{25}, 2, 1, 0; 2021 QQ_{25}, 2, 1, 0; 2021 QD_{26}, 3, 1, 0; 2021 QA_{35}, 2, 1, 0; *[477, 222, 4*, 2000/02/05–2015/06/12]*

{3} 1998 WL_{45}, 2, 1, 0; 2009 EA_{42}, 4, 1, 0; 2021 MM_{10}, 4, 1, 0; 2021 PR_4, 6, 1, 0; (584872), 5, 1, 0; *[21, 5, 0*, 2001/11/16–2004/03/26]*

{45} 2001 QJ_{96}, 2, 1, 0; 2007 TF_{15}, 3, 1, 0; 2011 QJ_{115}, 2, 1, 0; 2015 TM_{143}, 2, 1, 0; 2016 WF_9, 3, 1, 0; 2016 XM, 3, 1, 0; 2017 CM_{32}, 3, 1, 0; 2017 FE_1, 3, 1, 0; 2018 TF_3, 3, 1, 0; 2020 MO_3, 3, 1, 0; 2021 EZ_4, 2, 1, 0; 2021 HE, 3, 1, 0; 2021 JL_6, 3, 1, 0; 2021 MB_2, 2, 1, 0; 2021 NT_1, 3, 1, 0; 2021 OS, 3, 1, 0; 2021 OZ, 3, 1, 0; 2021 OH_2, 3, 1, 0; 2021 PD_2, 3, 1, 0; 2021 PQ_6, 3, 1, 0; 2021 PC_9, 3, 1, 0; 2021 PL_{23}, 3, 1, 0; 2021 PA_{24}, 6, 2, 3; 2021 PD_{24}, 3, 1, 0; 2021 QA_2, 3, 1, 0; 2021 QE_5, 3, 1, 0; 2021 QH_5, 3, 1, 0; 2021 QN_5, 3, 1, 0; 2021 QP_5, 3, 1, 0; 2021 QD_6, 3, 1, 0; 2021 QE_6, 3, 1, 0; 2021 QF_6, 3, 1, 0; 2021 QK_6, 3, 1, 0; 2021 QF_8, 2, 1, 0; 2021 QM_9, 3, 1, 0; 2021 RN, 3, 1, 0; 2021 RF_2, 3, 1, 0; 2021 RM_2, 3, 1, 0; 2021 RK_3, 3, 1, 0; *[114, 39, 0*, 2021/08/30–2021/09/07]*

699 Lowell Observatory-LONEOS

Observers B. A. Skiff, M. E. V. Ness, W. D. Ferris. Measurers B. A. Skiff, B. W. Koehn, M. E. V. Ness. 0.59-m LONEOS Schmidt + CCD.

2002 CD_{196}, 4, 1, 0; 2005 OJ_{35}, 4, 1, 0; 2013 XV_{29}, 4, 1, 0; 2014 QO_{391}, 1, 1, 0; 2015 PG_{54}, 4, 1, 0; 2016 TC_{176}, 4, 1, 0; 2021 LG, 4, 1, 0; 2021 PS_{40}, 4, 1, 0; (533829), 3, 1, 0; (574041), 1, 1, 0; (577991), 2, 1, 0; (578207), 3, 1, 0; (579452), 3, 1, 0; (582702), 3, 1, 0; (583930), 3, 1, 0; (584088), 2, 1, 0; *[49, 16, 0*, 2000/05/27–2006/09/18]*

701 Junk Bond Observatory, Sierra Vista

Observer D. Healy. 0.81-m $f/4.4$ Ritchey-Chrétien + CCD.

2005 RY_{61} *, 2, 1, 0; 2013 RU_{154}, 2, 1, 0; *[4, 2, 1*, 2005/09/12–2005/10/11]*

703 Catalina Sky Survey

Observers G. J. Leonard, K. W. Wierzchos, D. Rankin, D. C. Fuls, A. Boattini, E. J. Christensen, R. A. Kowalski, R. E. Hill, J. A. Johnson, R. Hill, T. A. Pruyne, E. Beshore, A. D. Grauer, B. M. Africano, R. G. Matheny, A. R. Gibbs, S. M. Larson, C. W. Hergenrother, H. Groeller, A. P. Odell, E. C. Beshore, A. P. Qdell. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, J. A. Johnson, R. G. Matheny, J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, R. E. Hill, R. H. McNaught, C. M. Casey, B. M. Africano, P. Tricarico, C. W. Hergenrother, B. Gray. 0.68-m Schmidt + 10K CCD, 0.68-m Schmidt + CCD, 0.41-m schmidt + CCD.

1996 CS_9, 8, 2, 5; 1996 RP_4, 2, 1, 0; 1996 RK_{23}, 7, 2, 8; 1998 SL_{36}, 7, 2, 7; 1999 EQ_{15}, 4, 1, 0; 1999 FM_{92}, 4, 1, 0; 1999 FD_{100}, 13, 4, 11; 1999 RY_{86}, 15, 4, 11; 1999 RZ_{259}, 7, 2, 6; 1999 TR_{337}, 3, 1, 0; 1999 TE_{342}, 4, 1, 0; 2000 EY_{106}, 6, 2, 4; 2000 LG_{10}, 20, 5, 11; 2000 OT_{70}, 3, 1, 0; 2000 QC_7, 12, 3, 5; 2000 QA_{115}, 14, 4, 7; 2000 QS_{211}, 19, 5, 11; 2000 RP_{52}, 15, 4, 7; 2000 SX_{23}, 12, 3, 11; 2000 SN_{34}, 8, 2, 3; 2000 SU_{55}, 6, 2, 8; 2000 SE_{156}, 12, 3, 7; 2000 SC_{190}, 16, 4, 11; 2000 SE_{205}, 12, 3, 6; 2000 SO_{303}, 16, 4, 10; 2000 SR_{334}, 7, 2, 3; 2000 SD_{377}, 2, 1, 0; 2000 TW, 5, 2, 5; 2000 TA_1, 3, 1, 0; 2000 TM_{42}, 8, 2, 7; 2000 WO_{201}, 3, 1, 0; 2000 YF_{144}, 3, 1, 0; 2000 YV_{145}, 12, 3, 6; 2001 FJ_{230}, 4, 1, 0; 2001 PW_{67}, 8, 2, 6; 2001 QF_{136}, 12, 3, 7; 2001 SM_{355}, 4, 1, 0; 2001 SY_{356}, 4, 1, 0; 2001 TR_{262}, 4, 1, 0; 2001 UP_{164}, 4, 1, 0; 2001 WU_{15}, 3, 1, 0; 2002 DF_8, 7, 2, 5; 2002 GH_{198}, 3, 1, 0; 2002 PP_{113}, 16, 4, 7; 2002 PN_{203}, 3, 1, 0; 2002 QQ_{15}, 8, 2, 11; 2002 QN_{24}, 4, 1, 0; 2002 QO_{24}, 4, 1, 0; 2002 QG_{46}, 10, 3, 4; 2002 QR_{97}, 12, 3, 8; 2002 RR_{25}, 11, 3, 4; 2002 RO_{137}, 16, 4, 7; 2002 RL_{146}, 4, 1, 0; 2002 RX_{276}, 4, 1, 0; 2002 RZ_{295}, 3, 1, 0; 2002 SX_{74}, 15, 4, 11; 2002 TU_{58}, 2, 1, 0; 2002 TT_{70}, 6, 2, 1; 2002 TP_{233}, 4, 1, 0; 2002 TH_{383}, 2, 1, 0; 2002 VH_{97}, 3, 1, 0; 2002 VB_{153}, 2, 1, 0; 2002 WV_{31}, 8, 2, 6; 2003 KP_{27}, 4, 1, 0; 2003 QA, 3, 1, 0; 2003 QF_{76}, 11, 3, 6; 2003 QS_{94}, 12, 3, 6; 2003 RY_2, 3, 1, 0; 2003 SK_{202}, 4, 1, 0; 2003 SA_{327}, 4, 1, 0; 2003 SQ_{332}, 19, 5, 11; 2003 SN_{472}, 12, 3, 6; 2003 UF_1, 4, 1, 0; 2003 UT_{136}, 3, 1, 0; 2003 UK_{205}, 8, 2, 7; 2003 UU_{233}, 4, 1, 0; 2003 UQ_{421}, 8, 2, 6; 2003 VJ_8, 2, 1, 0; 2003 WX_{30}, 7, 2, 3; 2003 WM_{90}, 4, 1, 0; 2003 WM_{217}, 4, 1, 0; 2003 YY_{49}, 8, 2, 4; 2004 DO_{82}, 11, 3, 5; 2004 LH_{31}, 4, 1, 0; 2004 NV_{19}, 3, 1, 0; 2004 PY_{47}, 8, 2, 2; 2004 PT_{68}, 4, 1, 0; 2004 PF_{97}, 15, 4, 7; 2004 PN_{119}, 12, 3, 7; 2004 QE_{13}, 4, 1, 0; 2004 QH_{38}, 4, 1, 0; 2004 RN_{10}, 15, 4, 7; 2004 RK_{14}, 10, 3, 6; 2004 RU_{36}, 8, 2, 7; 2004 RF_{49}, 2, 1, 0; 2004 RZ_{79}, 16, 4, 7; 2004 RG_{83}, 4, 1, 0; 2004 RL_{106}, 14, 4, 10; 2004 RT_{123}, 12, 3, 10; 2004 RC_{148}, 4, 1, 0; 2004 RL_{156}, 3, 1, 0; 2004 RR_{157}, 4, 1, 0; 2004 RX_{174}, 8, 2, 8; 2004 RL_{187}, 2, 1, 0; 2004 RL_{201}, 18, 5, 11; 2004 RL_{204}, 16, 4, 7; 2004 RF_{207}, 7, 2, 7; 2004 RS_{221}, 4, 1, 0; 2004 RP_{222}, 19, 5, 20; 2004 RV_{264}, 4, 1, 0; 2004 RZ_{267}, 4, 1, 0; 2004 RU_{275}, 3, 1, 0; 2004 RM_{287}, 6, 2, 2; 2004 RX_{338}, 4, 1, 0; 2004 SV, 11, 3, 19; 2004 SG_{28}, 4, 1, 0; 2004 SM_{61}, 3, 1, 0; 2004 TR, 4, 1, 0; 2004 TC_8, 4, 1, 0; 2004 TN_{12}, 4, 1, 0; 2004 TN_{102}, 4, 1, 0; 2004 TC_{120}, 3, 1, 0; 2004 TX_{132}, 4, 1, 0; 2004 TV_{134}, 2, 1, 0; 2004 TM_{159}, 4, 1, 0; 2004 TP_{200}, 4, 1, 0; 2004 TM_{222}, 10, 3, 5; 2004 TA_{272}, 4, 1, 0; 2004 TV_{305}, 4, 1, 0; 2004 TP_{376}, 8, 2, 11; 2004 TB_{387}, 4, 1, 0; 2004 UA_2, 12, 3, 7; 2004 XP_7, 7, 2, 2; 2004 XC_{14}, 8, 2, 4; 2004 XH_{39}, 4, 1, 0; 2004 XW_{102}, 7, 2, 3; 2004 XU_{198}, 2, 1, 0; 2005 EW_{228}, 4, 1, 0; 2005 GB_{138}, 3, 1, 0; 2005 JF_{45}, 3, 1, 0; 2005 NC_{69}, 23, 6, 1046; 2005 OR_{24}, 4, 1, 0; 2005 PD_{22}, 6, 2, 6; 2005 QO_{10}, 8, 2, 8; 2005 QN_{11}, 4, 1, 0; 2005 QK_{64}, 3, 1, 0; 2005 QS_{74}, 12, 3, 5; 2005 QE_{97}, 5, 2, 3; 2005 QX_{149}, 8, 2, 4; 2005 QC_{163}, 3, 1, 0; 2005 QF_{172}, 4, 1, 0; 2005 QJ_{197}, 2, 1, 0; 2005 QU_{198}, 4, 1, 0; 2005 QS_{200}, 4, 1, 0; 2005 RV_3, 4, 1, 0; 2005 RD_{62}, 4, 1, 0; 2005 SG_{66}, 4, 1, 0; 2005 SN_{134}, 12, 3, 7; 2005 SB_{156}, 3, 1, 0; 2005 SS_{226}, 3, 1, 0; 2005 SE_{289}, 7, 2, 3; 2005 SB_{298}, 2, 1, 0; 2005 SW_{303} *, 8, 2, 1449; 2005 UU_{416}, 8, 2, 6; 2005 US_{536}, 4, 1, 0; 2005 UO_{540}, 8, 2, 2; 2005 WZ_{70}, 4, 1, 0; 2005 XL_{53}, 3, 1, 0; 2005 YT_{138}, 4, 1, 0; 2006 AL_3, 7, 2, 3; 2006 BY_{15}, 4, 1, 0; 2006 CN_{25}, 4, 1, 0; 2006 CL_{91}, 4, 1, 0; 2006 EB_{54}, 3, 1, 0; 2006 FN_{35}, 4, 1, 0; 2006 MT_{15}, 4, 1, 0; 2006 OY_{14}, 4, 1, 0; 2006 PZ_{16}, 15, 4, 15; 2006 QS_{14}, 8, 2, 6; 2006 QL_{33}, 22, 6, 13; 2006 QA_{35}, 8, 2, 6; 2006 QS_{36}, 8, 2, 3; 2006 QX_{120}, 4, 1, 0; 2006 QE_{149}, 4, 1, 0; 2006 QG_{194}, 19, 5, 11; 2006 RR_{10}, 3, 1, 0; 2006 RU_{31}, 12, 3, 5; 2006 SD_6, 6, 2, 5; 2006 SH_9, 8, 2, 3; 2006 SO_{117}, 4, 1, 0; 2006 SW_{127}, 4, 1, 0; 2006 SR_{173}, 7, 2, 2; 2006 SS_{219}, 12, 3, 7; 2006 SV_{270}, 11, 3, 6; 2006 SK_{349}, 2, 1, 0; 2006 SX_{457}, 7, 2, 3; 2006 SD_{458} *, 4, 1, 0; 2006 UK_{18}, 4, 1, 0; 2006 UZ_{390}, 3, 1, 0; 2006 US_{391} *, 8, 2, 22; 2006 VY_{39}, 4, 1, 0; 2006 WH_{206}, 2, 1, 0; 2006 YF$_{69}$, 4, 1, 0; 2007 BY_{58}, 4, 1, 0; 2007 BD_{119}, 4, 1, 0; 2007 DJ_{58}, 3, 1, 0; 2007 DN_{65}, 3, 1, 0; 2007 DW_{66}, 4, 1, 0; 2007 EZ_{10}, 2, 1, 0; 2007 ET_{86}, 14, 4, 7; 2007 ET_{242}, 4, 1, 0; 2007 JS_{39}, 1, 1, 0; 2007 NX_1, 7, 2, 3; 2007 PT_{10}, 12, 3, 10; 2007 PT_{19}, 4, 1, 0; 2007 PK_{29}, 9, 3, 7; 2007 PV_{30}, 21, 6, 18; 2007 PA_{44}, 11, 3, 6; 2007 QM_4, 6, 2, 2; 2007 RA_{72}, 4, 1, 0; 2007 RP_{369}, 3, 1, 0; 2007 RV_{371}, 3, 1, 0; 2007 TA_{25}, 8, 3, 7; 2007 TG_{25}, 4, 1, 0; 2007 TG_{47}, 7, 2, 2; 2007 TK_{106}, 4, 1, 0; 2007 TU_{122}, 7, 2, 2; 2007 TJ_{211}, 4, 1, 0; 2007 TC_{462}, 2, 1, 0; 2007 UP_{10}, 4, 1, 0; 2007 VF_{39}, 16, 4, 11; 2007 VM_{165}, 4, 1, 0; 2007 VX_{202}, 3, 1, 0; 2007 VW_{237}, 4, 1, 0; 2007 VK_{377} *, 4, 1, 0; 2007 YZ_{79}, 3, 1, 0; 2008 CD_6, 7, 2, 2; 2008 CT_{136}, 8, 2, 2; 2008 GR_{36}, 2, 1, 0; 2008 GC_{154}, 4, 1, 0; 2008 JZ_7, 10, 3, 18; 2008 JW_{53} *, 4, 1, 0; 2008 KC_{29}, 3, 1, 0; 2008 KJ_{44}, 8, 2, 5; 2008 KF_{49}, 2, 1, 0; 2008 NJ_5, 4, 1, 0; 2008 ON_{15}, 3, 1, 0; 2008 OO_{30}, 4, 1, 0; 2008 OO_{32}, 4, 1, 0; 2008 QD_{11}, 16, 4, 10; 2008 QG_{31}, 17, 5, 11; 2008 QW_{32}, 8, 2, 5; 2008 QM_{49}, 4, 1, 0; 2008 RY_{21}, 12, 3, 4; 2008 RM_{48}, 12, 3, 7; 2008 RN_{50}, 2, 1, 0; 2008 RD_{88}, 15, 4, 11; 2008 RC_{157}, 3, 1, 0; 2008 SN_1, 19, 5, 20; 2008 SF_2, 12, 3, 6; 2008 SF_6, 3, 1, 0; 2008 SC_{16}, 4, 1, 0; 2008 SP_{64}, 16, 4, 8; 2008 SS_{68}, 4, 1, 0; 2008 SY_{88}, 3, 1, 0; 2008 SY_{112}, 4, 1, 0; 2008 SY_{130}, 4, 1, 0; 2008 SS_{145}, 3, 1, 0; 2008 SX_{148}, 7, 2, 3; 2008 SJ_{159}, 7, 2, 7; 2008 SE_{168}, 2, 1, 0; 2008 SN_{203}, 4, 1, 0; 2008 SZ_{291}, 11, 3, 10; 2008 SY_{302}, 4, 1, 0; 2008 SM_{351}, 4, 1, 0; 2008 SZ_{351}, 2, 1, 0; 2008 SU_{352}, 10, 3, 5; 2008 TR_{52}, 3, 1, 0; 2008 TE_{104}, 4, 1, 0; 2008 TW_{116}, 4, 1, 0; 2008 TS_{217}, 7, 2, 5; 2008 TM_{229}, 9, 3, 4705; 2008 TJ_{230} *, 4, 1, 0; 2008 UR_{124}, 4, 1, 0; 2008 UJ_{151}, 4, 1, 0; 2008 UP_{166}, 4, 1, 0; 2008 US_{175}, 4, 1, 0; 2008 UH_{207}, 4, 1, 0; 2008 UU_{362}, 4, 1, 0; 2008 UH_{377}, 5, 2, 11; 2008 US_{393}, 4, 1, 0; 2008 UA_{415}, 7, 2, 5; 2008 WN_{163}, 4, 1, 0; 2008 XE_{51}, 4, 1, 0; 2008 XS_{68}, 4, 1, 0; 2009 BJ_{79}, 4, 1, 0; 2009 BX_{202}, 4, 1, 0; 2009 CA_{24}, 4, 1, 0; 2009 CH_{73}, 7, 2, 7; 2009 DN_{74}, 10, 3, 5; 2009 FP_{44}, 2, 1, 0; 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(579257), 8, 2, 3; (579305), 4, 1, 0; (579307), 4, 1, 0; (579312), 8, 2, 2; (579377), 3, 1, 0; (579438), 3, 1, 0; (579463), 4, 1, 0; (579464), 8, 2, 5; (579485), 4, 1, 0; (579517), 3, 1, 0; (579568), 4, 1, 0; (579577), 19, 5, 11; (579616), 7, 3, 5; (579678), 3, 1, 0; (579682), 7, 2, 3; (579748), 2, 1, 0; (579764), 4, 1, 0; (579787), 4, 1, 0; (579813), 3, 1, 0; (579839), 15, 4, 7; (579847), 3, 1, 0; (579934), 3, 1, 0; (579989), 4, 1, 0; (580004), 3, 1, 0; (580012), 4, 1, 0; (580024), 4, 1, 0; (580051), 4, 1, 0; (580086), 4, 1, 0; (580088), 4, 1, 0; (580128), 3, 1, 0; (580138), 4, 1, 0; (580166), 3, 1, 0; (580193), 7, 2, 7; (580253), 12, 3, 10; (580257), 4, 1, 0; (580298), 2, 1, 0; (580324), 4, 1, 0; (580329), 7, 2, 3; (580347), 2, 1, 0; (580359), 3, 1, 0; (580455), 8, 2, 2; (580485), 4, 1, 0; (580498), 4, 1, 0; (580516), 4, 1, 0; (580567), 11, 3, 5; (580575), 20, 5, 18; (580604), 4, 1, 0; (580644), 4, 1, 0; (580713), 4, 1, 0; (580729), 10, 3, 6; (580747), 15, 4, 7; (580889), 4, 1, 0; (580952), 2, 1, 0; (581023), 4, 1, 0; (581024), 4, 1, 0; (581066), 12, 3, 6; (581284), 8, 2, 2; (581329), 3, 1, 0; (581331), 6, 2, 4; (581375), 3, 1, 0; (581381), 8, 3, 5; (581383), 3, 1, 0; (581387), 3, 1, 0; (581456), 4, 1, 0; (581493), 8, 2, 5; (581547), 3, 1, 0; (581591), 2, 1, 0; (581628), 8, 2, 5; (581649), 3, 1, 0; (581835), 16, 4, 8; (581905), 8, 2, 2; (582027), 20, 5, 11; (582049), 4, 1, 0; (582057), 8, 2, 7; (582081), 4, 1, 0; (582176), 4, 1, 0; (582257), 4, 1, 0; (582379), 4, 1, 0; (582434), 4, 1, 0; (582481), 4, 1, 0; (582530), 4, 1, 0; (582731), 4, 1, 0; (582858), 4, 1, 0; (582886), 3, 1, 0; (582998), 4, 1, 0; (583155), 4, 1, 0; (583211), 8, 2, 4; (583226), 2, 1, 0; (583248), 6, 2, 4; (583349), 10, 3, 6; (583474), 4, 1, 0; (583493), 16, 4, 8; (583558), 4, 1, 0; (583560), 12, 4, 8; (583661), 11, 3, 8; (583679), 3, 1, 0; (583681), 4, 1, 0; (583690), 9, 3, 5; (583694), 2, 1, 0; (583764),

4, 1, 0; (583827), 24, 6, 18; (583829), 3, 1, 0; (583844), 4, 1, 0; (583879), 8, 2, 5; (583898), 4, 1, 0; (583930), 4, 1, 0; (583945), 19, 5, 11; (583995), 4, 1, 0; (584103), 4, 1, 0; (584124), 8, 2, 3; (584144), 4, 1, 0; (584230), 4, 1, 0; (584240), 8, 2, 5; (584258), 3, 1, 0; (584268), 8, 2, 4; (584315), 4, 1, 0; (584337), 4, 1, 0; (584367), 3, 1, 0; (584369), 8, 2, 7; (584381), 3, 1, 0; (584476), 8, 2, 4; (584549), 7, 2, 2; (584645), 8, 2, 5; (584690), 8, 2, 3; (584694), 4, 1, 0; (584699), 3, 1, 0; (584707), 8, 2, 2; (584761), 3, 1, 0; (584785), 8, 2, 6; (584850), 10, 3, 11; (584929), 4, 1, 0; (584934), 7, 2, 11; (584938), 2, 1, 0; (585017), 8, 2, 2; (585020), 20, 5, 11; (585078), 4, 1, 0; (585092), 11, 3, 10; (585112), 4, 1, 0; (585138), 8, 2, 3; (585200), 4, 1, 0; (585230), 4, 1, 0; (585254), 5, 2, 2; (585361), 4, 1, 0; (585363), 2, 1, 0; (585386), 3, 1, 0; (585398), 4, 1, 0; (585423), 1, 1, 0; (585427), 3, 1, 0; (585459), 4, 1, 0; (585467), 4, 1, 0; (585468), 10, 3, 29; (585470), 3, 1, 0; (585471), 3, 1, 0; (585487), 3, 1, 0; (585496), 7, 2, 3; (585515), 4, 1, 0; (585532), 6, 2, 4; (585534), 12, 3, 8; (585565), 2, 1, 0; (585610), 2, 1, 0; (585612), 3, 1, 0; (585619), 4, 1, 0; (585640), 2, 1, 0; (585667), 1, 1, 0; (585722), 3, 1, 0; (585762), 4, 1, 0; (585786), 3, 1, 0; (585824), 4, 1, 0; (585842), 3, 1, 0; (585869), 3, 1, 0; *[285940, 30452, 22∗, 1999/11/03–2021/09/17]*

705 Apache Point

Observer J. C. Barentine. Measurer G. A. Esquerdo. 0.5-m $f/8.5$ reflector + CCD. (03)

Observers H. Brewington, J. Dembicky, M. Harvanek, B. Ketzeback, D. Long, K. Pan, O. Malanushenko, V. Malanushenko, R. McMillan, S. Snedden, S. Watters. Measurer K. Sárneczky. 2.5-m $f/5$ Ritchey-Chrétien + CCD. (07)

{3} 2011 SV_{88}, 3, 1, 0; *[3, 1, 0∗, 2004/09/09]*

{7} 2016 PP_{29}, 3, 1, 0; *[3, 1, 0∗, 2006/10/01]*

718 Tooele

Observer P. Wiggins. 0.35-m $f/5.5$ Schmidt-Cassegrain + CCD.

2021 RG_2, 7, 1, 0; 2021 SE, 6, 1, 0; *[13, 2, 0∗, 2021/09/07–2021/09/16]*

734 Farpoint Observatory, Eskridge

Observers G. Hug, D. Cromer, D. Goodin, R. Valentine. Measurers G. Hug, G. hug, D. Cromer. 0.7-m reflector + CCD.

2014 UU_{192}, 8, 2, 11; 2021 PB_{17}, 3, 1, 0; 2021 PB_{23}, 4, 1, 0; 2021 PJ_{23}, 3, 1, 0; 2021 PA_{24}, 3, 1, 0; 2021 PN_{40}, 4, 1, 0; 2021 PZ_{40}, 2, 1, 0; 2021 QC, 3, 1, 0; 2021 QF, 3, 1, 0; 2021 QF_1, 4, 1, 0; 2021 QO_1, 2, 1, 0; 2021 QR_1, 2, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QH_3, 5, 1, 0; 2021 QU_3, 3, 1, 0; 2021 RS, 3, 1, 0; 2021 RJ_1, 4, 1, 0; 2021 RN_1, 6, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RJ_2, 5, 2, 2; 2021 RX_2, 2, 1, 0; 2021 RF_3, 3, 1, 0; 2021 RH_3, 3, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RV_3, 2, 1, 0; 2021 RX_3, 5, 2, 8; 2021 RZ_3, 3, 1, 0; 2021 RB_4, 2, 1, 0; 2021 RW_4, 3, 1, 0; 2021 RX_4, 2, 1, 0; 2021 RE_5, 3, 1, 0; 2021 RG_7, 2, 1, 0; 2021 RP_7, 3, 1, 0; 2021 RR_9, 3, 1, 0; 2021 RH_{19}, 2, 1, 0; 2021 RJ_{19}, 3, 1, 0; 2021 SB, 3, 1, 0; 2021 SE, 5, 1, 0; 2021 SK, 3, 1, 0; (472993), 3, 1, 0; *[134, 41, 0∗, 2021/08/15–2021/09/17]*

735 George Observatory, Needville

Observer J. Dellinger. 0.46-m $f/4.5$ Newtonian reflector + CCD.

2014 YC_{49}, 3, 1, 0; 2015 SQ_{49}, 3, 1, 0; *[6, 2, 0∗, 2003/12/15–2004/01/18]*

807 Cerro Tololo Observatory, La Serena

Observers M. W. Buie, A. B. Jordan, L. H. Wasserman, R. L. Millis, K. J. Meech, S. D. Kern, J. L. Elliot, J. F. Kane, M. E. Teyssier, D. E. Trilling, J. R. Lovering. Measurers M. W. Buie, A. B. Jordan, J. L. Elliot, K. B. Clancy, R. L. Millis, L. H. Wasserman, E. Chaing, D. E. Trilling, S. D. Kern, A. A. S. Gulbisdgren, J. F. Kane, E. I. Chiang, E. W. Lundgren, S. Hylton, S. Qu, J. A. Pate, M. E. Teyssier, A. A. S. Gulbis, T. A. Jones, M. Leung, A. L. Vax, J. J. Qu, C. V. Salyk, S. J. Cole, E. Chiang, J. R. Lovering, A. L. Vaz, L. E. Hutchison. 4.02-m $f/2.87$ reflector + 8K CCD + prime-focus corrector, 4-m telescope + CCD, 4-m reflector + CCD. (01)

Observers L. H. Wasserman, D. E. Trilling, R. A. Crudo. Measurers L. H. Wasserman, D. E. Trilling, R. L. Millis, R. A. Crudo, M. W. Buie. 4.02-m $f/2.87$ reflector + 8K CCD + prime-focus corrector. (15)

Observer J. Vasquez. Measurer O. Vaduvescu. 0.9-m $f/13.5$ reflector + CCD. (21)

Observers T. Linder, R. Holmes, L. Horn. Measurers T. Linder, R. Holmes, L. Horn, D. Bamberger. 1.00-m $f/10.0$ astrograph + CCD, 0.61-m $f/6.5$ astrograph + CCD, 0.41-m $f/11$ Ritchey-Chrétien + CCD. (32)

Observers E. Chen, E. Nguyen, S. Salzman, C. Chen, M. Johnson Quamina, P. RodrÃ, E. Cusson, A. Muñoz-Perez, J. Wolfram. 0.40-m $f/17.3$ reflector + CCD. (50)

Observers S. S. Sheppard, I. Dellantonio, S. Fu, A. Drlica-Wagner, C. Martinez-Vazquez, S. D. Mau, L. Santana-Silva. Measurers D. J. Tholen, S. S. Sheppard. 4.0-m $f/2.94$ reflector. (51)

Observers C. Michael, A. Morand, N. Nagac, J. Shoemaker, M. Sinclair, A. Tang, B. Busby, M. Neissen, C. Tang, C. Ellis, K. He, S. Winney, J. Byrd, A. Saraf, E. Schnathorst, A. Yun, D. Zhang, I. Bayliss. 17.30-m $f/11$ reflector + CCD. (52)

{15} 2005 QP_{208}, 3, 2, 1; 2005 QR_{208}, 2, 1, 0; 2005 QY_{208}, 3, 2, 1; 2008 UE_{104}, 2, 1, 0; 2010 UM_{128}, 1, 1, 0; 2014 FM_{32}, 2, 1, 0; 2014 KR_{139}, 2, 1, 0; 2016 NH_{152}, 2, 1, 0; 2016 QE_{96}, 2, 1, 0; 2019 KD_{48}, 1, 1, 0; 2020 GF_{27}, 2, 1, 0; 2020 HY_{120}, 2, 1, 0; 2021 GC_{160}, 2, 1, 0; 2021 OX_{18}, 3, 2, 1; *[29, 14, 0∗, 2005/08/08–2007/04/22]*

{21} 2017 WU_{64}, 5, 1, 0; *[5, 1, 0∗, 2008/10/06]*

{1} 2002 CN_{267}, 2, 1, 0; 2002 FB_{44}, 2, 1, 0; 2002 GH_{198}, 2, 1, 0; 2003 KG_{40}, 1, 1, 0; 2003 PW_{13}, 2, 1, 0; 2003 QT_{125} ∗, 2, 1, 0; 2003 QU_{125} ∗, 2, 1, 0; 2003 SN_{472}, 2, 1, 0; 2003 SS_{472}, 2, 1, 0; 2003 WJ_{16}, 1, 1, 0; 2005 LT_{59}, 2, 1, 0; 2005 WT_{128}, 2, 1, 0; 2005 WN_{219}, 2, 1, 0; 2006 FX_{31}, 1, 1, 0; 2006 JO_{89}, 2, 1, 0; 2006 KO_{156}, 2, 1, 0; 2006 RM_{51}, 2, 1, 0; 2006 SU_{112}, 2, 1, 0; 2006 UL_{277}, 2, 1, 0; 2006 WZ_{41}, 2, 1, 0; 2007 AD_{32}, 2, 1, 0; 2007 CY_{85}, 2, 1, 0; 2007 EM_{20}, 2, 1, 0; 2007 VP_{378}, 2, 1, 0; 2007 WP_{30}, 3, 1, 0; 2008 EL_{159}, 2, 1, 0; 2008 RM_{179}, 2, 1, 0; 2008 SL_{351}, 2, 1, 0; 2008 TJ_{195}, 2, 1, 0; 2008 UL_{417}, 2, 1, 0; 2008 XK_{44}, 2, 1, 0; 2009 AA_{64}, 2, 1, 0; 2009 DP_{159}, 2, 1, 0; 2009 UN_{10}, 2, 1, 0; 2009 UL_{187}, 2, 1, 0; 2010 DF_{11}, 2, 1, 0; 2010 FT_{15}, 2, 1, 0; 2010 RF_{146}, 2, 1, 0; 2010 TY_{227}, 2, 1, 0; 2010 UB_{91}, 2, 1, 0; 2011 FA_{139}, 2, 1, 0; 2011 OM_{74}, 2, 1, 0; 2011 WS_{25}, 2, 1, 0; 2011 WX_{182}, 2, 1, 0; 2012 CS_{70}, 2, 1, 0; 2012 EU_{30}, 2, 1, 0; 2012 UQ_{236}, 2, 1, 0; 2012 WX_{43}, 3, 1, 0; 2013 AB_{204}, 2, 1, 0; 2013 BT_{100}, 2, 1, 0; 2013 CD_{76}, 2, 1, 0; 2013 FW_{38}, 2, 1, 0; 2013 FD_{39}, 2, 1, 0; 2013 PP_{119}, 2, 1, 0; 2013 SM_{95}, 2, 1, 0; 2014 EN_{157}, 2, 1, 0; 2014 JY_{124}, 2, 1, 0; 2014 KM_{43}, 2, 1, 0; 2014 OO_{422}, 2, 1, 0; 2014 OG_{456}, 2, 1, 0; 2014 PL_{98}, 2, 1, 0; 2014 QO_{173}, 2, 1, 0; 2014 QN_{213}, 2, 1, 0; 2014 QS_{331}, 2, 1, 0; 2014 QL_{558}, 2, 1, 0; 2014 QT_{559}, 2, 1, 0; 2014 QV_{560}, 2, 1, 0; 2014 QZ_{560}, 2, 1, 0; 2014 QT_{561}, 2, 1, 0; 2014 QW_{561}, 2, 1, 0; 2014 RB_{86}, 2, 1, 0; 2014 ST_{287}, 2, 1, 0; 2014 SX_{401}, 2, 1, 0; 2014 SV_{402}, 2, 1, 0; 2014 TU_{22}, 2, 1, 0; 2014 WR_{31}, 2, 1, 0; 2014 WG_{76}, 2, 1, 0; 2015 FC_{385}, 2, 1, 0; 2015 FQ_{449}, 2, 1, 0; 2015 PC_{24}, 2, 1, 0; 2015 PP_{24}, 2, 1, 0; 2015 PG_{87}, 2, 1, 0; 2015 PK_{88}, 2, 1, 0; 2015 WL_{36}, 2, 1, 0; 2015 XP_{230}, 2, 1, 0; 2015 XM_{480}, 2, 1, 0; 2016 EW_{97}, 2, 1, 0; 2016 ED_{309}, 2, 1, 0; 2016 FT_{81}, 2, 1, 0; 2016 NR_{150}, 2, 1, 0; 2016 PT_{211}, 2, 1, 0; 2016 RA_{73}, 2, 1, 0; 2016 SU_{103}, 2, 1, 0; 2016 TT_{171}, 2, 1, 0; 2016 UO_{269}, 2, 1, 0; 2017 HW_{85}, 2, 1, 0; 2017 KN_{37}, 2, 1, 0; 2017 KO_{44}, 3, 1, 0; 2017 MH_{23}, 2, 1, 0; 2017 ON_{53}, 2, 1, 0; 2017 OH_{124}, 2, 1, 0; 2017 QG_{19}, 2, 1, 0; 2017 QX_{127}, 2, 1, 0; 2017 RN_6, 2, 1, 0; 2017 RK_{128}, 2, 1, 0; 2017 SC_{153}, 2, 1, 0; 2017 SJ_{161}, 2, 1, 0; 2017 SB_{266}, 2, 1, 0; 2017 SX_{273}, 2, 1, 0; 2017 TN_{35}, 2, 1, 0; 2017 UM_{142}, 2, 1, 0; 2017 UH_{145}, 2, 1, 0; 2017 UF_{152}, 2, 1, 0; 2017 WY_{51}, 2, 1, 0; 2017 WM_{68}, 2, 1, 0; 2017 XU_{52}, 3, 1, 0; 2018 AX_{24}, 2, 1, 0; 2018 RX_{61}, 2, 1, 0; 2018 VO_{74}, 2, 1, 0; 2019 AV_{87}, 2, 1, 0; 2019 NA_{74}, 2, 1, 0; 2019 NX_{77}, 2, 1, 0; 2019 PJ_{65}, 2, 1, 0; 2019 QV_{72}, 2, 1, 0; 2019 RO_{73}, 2, 1, 0; 2019 SD_{183}, 2, 1, 0; 2019 VF_{33}, 2, 1, 0; 2020 BE_{91}, 2, 1, 0; 2020 BM_{92}, 2, 1, 0; 2020 CM_7, 2, 1, 0; 2020 FU_{26}, 2, 1, 0; 2020 GQ_{24}, 2, 1, 0; 2020 HJ_{62}, 2, 1, 0; 2020 KO_{37}, 2, 1, 0; 2020 KU_{37}, 2, 1, 0; 2020 KE_{38}, 2, 1, 0; 2020 XV_{19}, 2, 1, 0; 2021 KB_{16}, 2, 1, 0; 2021 LM_{27}, 2, 1, 0; 2021 LS_{33}, 2, 1, 0; 2021 MG_{11}, 2, 1, 0; 2021 MX_{13}, 2, 1, 0; 2021 NA_{29}, 2, 1, 0; 2021 OZ_1, 2, 1, 0; 2021 OC_{11}, 2, 1, 0; 2021 PJ_9, 2, 1, 0; 2021 PY_{32}, 2, 1, 0; 2021 PT_{36}, 2, 1, 0; 2021 PU_{36}, 2, 1, 0; 2021 PZ_{41}, 2, 1, 0; 2021 PJ_{42}, 2, 1, 0; 2021 PK_{42}, 2, 1, 0; 2021 PR_{46}, 2, 1, 0; 2021 PW_{48}, 2, 1, 0; 2021 PS_{57}, 2, 1, 0; 2021 PH_{77}, 2, 1, 0; 2021 PP_{85}, 2, 1, 0; 2021 QF_4, 2, 1, 0; 2021 QV_{25}, 2, 1, 0; 2021 QW_{25}, 2, 1, 0; 2021 QB_{26}, 2, 1, 0; (582325), 2, 1, 0; *[325, 162, 2∗, 2000/07/29–2006/04/28]*

{3} 2002 AX_{92}, 1, 1, 0; 2016 SL_{18}, 3, 1, 0; 2021 QS_6, 4, 1, 0; 2021 RB_{23}, 5, 1, 0; *[13, 4, 0∗, 2002/01/10–2002/02/19]*

{50} (329669), 2, 1, 0; *[2, 1, 0∗, 2021/07/19]*

{51} 2021 PH_{27} ∗, 13, 3, 2; *[13, 1, 1∗, 2021/08/13–2021/08/15]*

{52} (68063), 29, 12, 26; *[29, 1, 0∗, 2021/06/24–2021/07/20]*

{32} 2007 JK_{52}, 3, 1, 0; 2007 TC_{23}, 3, 1, 0; 2008 EG_{196}, 6, 2, 1; 2008 GO_{20}, 3, 1, 0; 2008 SX_{148}, 3, 1, 0; 2011 QJ_{115}, 3, 1, 0; 2011 UB_{479}, 4, 1, 0; 2014 GD_{87}, 3, 1, 0; 2016 NY_{149}, 3, 1, 0; 2016 OV_{13}, 3, 1, 0; 2016 PJ_{218}, 3, 1, 0; 2017 BG_{190}, 3, 1, 0; 2019 EG, 3, 1, 0; 2020 HA_{120}, 3, 1, 0; 2021 BB_2, 3, 1, 0; 2021 CC_4, 3, 1, 0; 2021 JH_2, 3, 1, 0; 2021 JT_5, 3, 1, 0; 2021 JW_{17}, 3, 1, 0; 2021 LZ_6, 3, 1, 0; 2021 LD_{29}, 3, 1, 0; 2021 LB_{33}, 3, 1, 0; 2021 MO_1, 9, 3, 31; 2021 NE_1, 3, 1, 0; 2021 NU_1, 9, 3, 7; 2021 NW_1, 6, 2, 18; 2021 NZ_1, 3, 1, 0; 2021 NT_3, 3, 1, 0; 2021 NO_5, 3, 1, 0; 2021 NY_5, 9, 3, 6; 2021 NT_8, 9, 3, 27; 2021 NT_{14}, 6, 2, 15; 2021 OD, 6, 2, 14; 2021 OW, 6, 2, 13; 2021 OX, 6, 2, 6; 2021 OB_1, 3, 1, 0; 2021 PB, 6, 2, 16; 2021 PE, 6, 2, 6; 2021 PT, 3, 1, 0; 2021 PV, 3, 1, 0; 2021 PH_1, 3, 1, 0; 2021 PJ_1, 3, 1, 0; 2021 PH_2, 8, 3, 34; 2021 PJ_2, 3, 1, 0; 2021 PL_2, 3, 1, 0; 2021 PQ_2, 9, 3, 18; 2021 PR_2, 12, 4, 37; 2021 PS_2, 6, 2, 13; 2021 PH_4, 9, 3, 19; 2021 PP_4, 3, 1, 0; 2021 PQ_4, 3, 1, 0; 2021 PX_4, 3, 1, 0; 2021 PD_5, 3, 1, 0; 2021 PH_5, 3, 1, 0; 2021 PL_5, 6, 2, 18; 2021 PO_5, 3, 1, 0; 2021 PP_6, 3, 1, 0; 2021 PS_6, 6, 2, 7; 2021 PT_6, 6, 2, 1; 2021 PV_6, 3, 1, 0; 2021 PD_7, 3, 1, 0; 2021 PE_7, 3, 1, 0; 2021 PF_7, 3, 1, 0; 2021 PE_9, 3, 1, 0; 2021 PG_9, 3, 1, 0; 2021 PP_9, 3, 1, 0; 2021 PD_{10}, 6, 2, 6; 2021 PE_{10}, 3, 1, 0; 2021 PF_{10}, 3, 1, 0; 2021 PB_{15}, 3, 1, 0; 2021 PE_{15}, 3, 1, 0; 2021 PR_{16}, 3, 1, 0; 2021 PC_{17}, 3, 1, 0; 2021 PO_{19}, 3, 1, 0; 2021 PE_{20}, 3, 1, 0; 2021 PC_{23}, 2, 1, 0; 2021 PJ_{23}, 9, 3, 18; 2021 PN_{23}, 3, 1, 0; 2021 PD_{24}, 6, 2, 1; 2021 PN_{26}, 9, 3, 16; 2021 PQ_{26}, 3, 1, 0; 2021 PO_{41}, 3, 1, 0; 2021 PE_{52}, 3, 1, 0; 2021 PD_{68}, 3, 1, 0; 2021 QA, 6, 2, 1; 2021 QC, 3, 1, 0; 2021 QE, 3, 1, 0; 2021 QF, 3, 1, 0; 2021 QH, 3, 1, 0; 2021 QL, 3, 1, 0; 2021 QA_1, 12, 4, 9; 2021 QJ_1, 3, 1, 0; 2021 QL_1, 9, 3, 7; 2021 QN_1, 3, 1, 0; 2021 QQ_1, 3, 1, 0; 2021 QR_1, 18, 6, 17; 2021 QB_2, 6, 2, 16; 2021 QE_2, 3, 1, 0; 2021 QG_2, 6, 2, 11; 2021 QK_2, 3, 1, 0; 2021 QB_3, 3, 1, 0; 2021 QC_3, 9, 3, 10; 2021 QD_3, 3, 1, 0; 2021 QL_3, 6, 2, 3; 2021 QM_3, 15, 5, 12; 2021 QN_3, 6, 2, 12; 2021 QX_3, 3, 1, 0; 2021 QY_3, 3, 1, 0; 2021 QZ_4, 3, 1, 0; 2021 QG_5, 2, 1, 0; 2021 QK_5, 15, 5, 14; 2021 QM_5, 2, 1, 0; 2021 QP_5, 3, 1, 0; 2021 QS_5, 3, 1, 0; 2021 QT_5, 3, 1, 0; 2021 QW_5, 3, 1, 0; 2021 QA_6, 3, 1, 0; 2021 QC_6, 3, 1, 0; 2021 QH_6, 3, 1, 0; 2021 QJ_6, 3, 1, 0; 2021 QN_6, 4, 1, 0; 2021 QM_9, 3, 1, 0; 2021 QH_{10}, 3, 1, 0; 2021 QB_{29}, 3, 1, 0; 2021 RE, 12, 4, 3; 2021 RH, 3, 1, 0; 2021 RJ, 3, 1, 0; 2021 RO, 6, 2, 1; 2021 RP, 10, 3, 12; 2021 RU, 3, 1, 0; 2021 RZ, 3, 1, 0; 2021 RG_1, 3, 1, 0; 2021 RL_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RO_1, 6, 2, 11; 2021 RS_1, 3, 1, 0; 2021 RX_1, 6, 1, 0; 2021 RA_2, 3, 1, 0; 2021 RD_2, 3, 1, 0; 2021 RF_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RM_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RN_3, 3, 1, 0; 2021 RT_3, 3, 1, 0; 2021 RB_4, 3, 1, 0; 2021 RR_4, 3, 1, 0; 2021 RU_4, 3, 1, 0; 2021 RV_4, 3, 1, 0; 2021 RA_5, 3, 1, 0; 2021 RK_5, 3, 1, 0; 2021 RL_5, 3, 1, 0; 2021 RQ_5, 3, 1, 0; 2021 RU_5, 3, 1, 0; 2021 RV_5, 3, 1, 0; 2021 RD_6, 6, 2, 7; 2021 RK_7, 3, 1, 0; 2021 RS_7, 3, 1, 0; 2021 RS_9, 3, 1, 0; 2021 RD_{10}, 3, 1, 0; 2021 RV_{10}, 10, 2, 3; 2021 RC_{12}, 4, 1, 0; 2021 RE_{12}, 3, 1, 0; 2021 RH_{12}, 3, 1, 0; 2021 RJ_{12}, 3, 1, 0; 2021 RN_{12}, 3, 1, 0; 2021 RO_{12}, 3, 1, 0; 2021 RR_{12}, 3, 1, 0; 2021 RH_{14}, 3, 1, 0; 2021 RJ_{14}, 6, 2, 1; 2021 RK_{14}, 3, 1, 0; 2021 RM_{14}, 3, 1, 0; 2021 RN_{14}, 12, 3, 3; 2021 RP_{14}, 9, 2, 1; 2021 RQ_{14}, 3, 1, 0; 2021 RT_{14}, 3, 1, 0; 2021 RU_{14}, 3, 1, 0; 2021 RV_{14}, 3, 1, 0; 2021 RW_{14}, 3, 1, 0; 2021 RX_{14}, 3, 1, 0; 2021 RZ_{14}, 3, 1, 0; 2021 RE_{15}, 3, 1, 0; 2021 RB_{16}, 3, 1, 0; 2021 RE_{16}, 3, 1, 0; 2021 RF_{16}, 3, 1, 0; 2021 RK_{16}, 6, 2, 1; 2021 RL_{16}, 7, 2, 1; 2021 RN_{16}, 6, 2, 1; 2021 RO_{16}, 9, 2, 1; 2021 RR_{16}, 3, 1, 0; 2021 RS_{16}, 3, 1, 0; 2021 RT_{16}, 3, 1, 0; 2021 RU_{16}, 6, 1, 0; 2021 RV_{16}, 3, 1, 0; 2021 RE_{19}, 9, 3, 2; 2021 RF_{19}, 3, 1, 0; 2021 RH_{19}, 9, 2, 1; 2021 RM_{19}, 6, 2, 2; 2021 RO_{19}, 5, 2, 1; 2021 RP_{19}, 6, 2, 1; 2021 RQ_{19}, 6, 2, 2; 2021 RS_{19}, 6, 2, 1; 2021 RT_{19}, 3, 1, 0; 2021 RY_{19}, 6, 2, 1; 2021 RL_{22}, 3, 1, 0; *[895, 205, 0∗, 2014/04/23–2021/09/17]*

809 European Southern Observatory, La Silla

Observers A. Boattini, O. Hainaut, R. Michelsen. Measurers A. Boattini, H. Scholl, G. Hahn, M. Carpino, G. Forti, G. D'Abramo. 3.58-m New Technology Telescope + CCD, 2.2-m f/5.9 reflector + CCD, 2.2-m reflector + CCD. (09)

Observers O. Vaduvescu, M. Birlan. Measurers A. Tudorica, R. Toma, A. Sonka, C. Opriseanu, D. Vidican. 2.2-m f/5.9 reflector + CCD. (32)

Observers A. Galád, K. Hornoch, P. Kušnirák, P. Pravec. Measurer A. Galád. 1.54-m Danish Telescope + CCD. (35)

{9} 2012 BT_{183}, 3, 1, 0; 2012 FR_{19}, 3, 1, 0; 2013 NH_{64}, 3, 1, 0; 2017 UH_{145}, 4, 1, 0; *[13, 4, 0∗, 2003/01/23–2005/02/11]*

{35} 2009 SM_{417}, 5, 1, 0; 2009 TE_{57}, 7, 1, 0; 2012 TU_{375}, 7, 1, 0; 2016 SN_{92}, 7, 1, 0; *[26, 4, 0∗, 2009/09/27–2013/12/06]*

{32} 2008 DB_{99}, 8, 1, 0; *[8, 1, 0∗, 2008/03/13]*

834 Buenos Aires-AAAA

Observers C. Cebral, E. Godoy, M. Konishi, C. Magliano, A. Masolini, Y. Olivera. Measurer C. Opados. 0.25-m f/6.3 Schmidt-Cassegrain + CCD.

(4954), 2, 1, 0; (7889), 4, 2, 11; (68063), 2, 1, 0; *[8, 3, 0∗, 2021/08/01–2021/08/28]*

851 Burke-Gaffney Observatory, Halifax

Observer F. D. Romanov. 0.61-m f/6.5 Corrected Dall-Kirkham + CCD. (00)

{0} 2011 YQ_{10}, 10, 1, 0; 2014 HO_{129}, 5, 1, 0; *[15, 2, 0∗, 2021/09/15]*

858 Tebbutt Observatory, Edgewood

Observer F. B. Zoltowski. 0.16-m refractor + CCD, 0.51-m Schmidt-Cassegrain + CCD.

2004 PT_{68}, 3, 1, 0; 2004 XJ_{29}, 3, 1, 0; 2007 TU_{122}, 3, 1, 0; 2010 RJ_{53}, 4, 1, 0; 2012 TW_{175}, 3, 1, 0; 2013 VJ_{18}, 3, 1, 0; 2015 KB_{86}, 3, 1, 0; 2021 PC_{10}, 5, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 QF, 3, 1, 0; 2021 QW, 3, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QO_3, 2, 1, 0; 2021 QA_4, 3, 1, 0; 2021 RC_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RW_2, 2, 1, 0; 2021 RZ_2, 3, 1, 0; 2021 RF_3, 3, 1, 0; 2021 RS_3, 2, 1, 0; 2021 RA_4, 3, 1, 0; 2021 RB_4, 3, 1, 0; 2021 RK_4, 3, 1, 0; 2021 RW_4, 6, 2, 1; 2021 RZ_4, 3, 1, 0; 2021 RH_5, 6, 2, 1; 2021 RS_5, 3, 1, 0; 2021 RU_5, 2, 1, 0; 2021 RY_5, 3, 1, 0; 2021 RJ_7, 3, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RG_{16}, 3, 1, 0; 2021 RD_{20}, 3, 1, 0; 2021 SB, 3, 1, 0; 2021 SC, 3, 1, 0; 2021 SF, 3, 1, 0; (585), 3, 1, 0; (1415), 3, 1, 0; (2116), 3, 1, 0; (2407), 6, 2, 4; (3424), 3, 1, 0; (3513), 3, 1, 0; (4095), 3, 1, 0; (5782), 3, 1, 0; (5842), 3, 1, 0; (5866), 3, 1, 0; (5893), 3, 1, 0; (6747), 3, 1, 0; (7084), 3, 1, 0; (7658), 3, 1, 0; (7666), 3, 1, 0; (7898), 3, 1, 0; (9147), 3, 1, 0; (9623), 3, 1, 0; (9652), 3, 1, 0; (9916), 3, 1, 0; (12708), 3, 1, 0; (13055), 3, 1, 0; (13758), 3, 1, 0; (15140), 3, 1, 0; (15718), 3, 1, 0; (16434), 2, 1, 0; (17196), 3, 1, 0; (18949), 3, 1, 0; (19206), 3, 1, 0; (19398), 3, 1, 0; (20096), 3, 1, 0; (20919), 3, 1, 0; (21959), 3, 1, 0; (22122), 3, 1, 0; (23253), 3, 1, 0; (24196), 3, 1, 0; (24691), 3, 1, 0; (26325), 3, 1, 0; (26678), 3, 1, 0; (28702), 3, 1, 0; (29121), 3, 1, 0; (29439), 3, 1, 0; (30601), 3, 1, 0; (32245), 3, 1, 0; (35500), 3, 1, 0; (36749), 2, 1, 0; (38118), 3, 1, 0; (42655), 2, 1, 0; (43841), 3, 1, 0; (44140), 3, 1, 0; (44463), 2, 1, 0; (44645), 2, 1, 0; (45823), 3, 1, 0; (46780), 3, 1, 0; (48589), 3, 1, 0; (48613), 3, 1, 0; (52113), 3, 1, 0; (52845), 3, 1, 0; (52859), 3, 1, 0; (54900), 2, 1, 0; (55125), 3, 1, 0; (55920), 3, 1, 0; (55981), 3, 1, 0; (56207), 3, 1, 0; (56380), 3, 1, 0; (58299), 3, 1, 0; (59648), 3, 1, 0; (60153), 3, 1, 0; (63774), 3, 1, 0; (64131), 3, 1, 0; (66620), 3, 1, 0; (70803), 3, 1, 0; (71323), 3, 1, 0; (79991), 3, 1, 0; (81452), 3, 1, 0; (85616), 3, 1, 0; (85954), 3, 1, 0; (87596), 3, 1, 0; (89660), 2, 1, 0; (100019), 3, 1, 0; (106401), 3, 1, 0; (112585), 3, 1, 0; (112901), 3, 1, 0; (118071), 3, 1, 0; (118424), 3, 1, 0; (122471), 3, 1, 0; (130498), 3, 1, 0; (131262), 3, 1, 0; (132168), 2, 1, 0; (136929), 3, 1, 0; (147781), 3, 1, 0; (159434), 3, 1, 0; (170895), 3, 1, 0; (182948), 2, 1, 0; (183036), 2, 1, 0; (186027), 3, 1, 0; (193104), 2, 1, 0; (200629), 3, 1, 0; (203310), 3, 1, 0; (210723), 3, 1, 0; (215129), 3, 1, 0; (219732), 3, 1, 0; (228100), 3, 1, 0; (229985), 3, 1, 0; (239887), 3, 1, 0; (242849), 3, 1, 0; (244910), 3, 1, 0; (247177), 3, 1, 0; (251818), 3, 1, 0; (262634), 3, 1, 0; (265071), 3, 1, 0; (268134), 3, 1, 0; (269297), 3, 1, 0; (279935), 2, 1, 0; (302025), 3, 1, 0; (303408), 2, 1, 0; (308015), 3, 1, 0; (350065), 2, 1, 0; (362335), 3, 1, 0; (367177), 3, 1, 0; (380023), 2, 1, 0; (407669), 3, 1, 0; (452415), 2, 1, 0; (455232), 2, 1, 0; (459998), 3, 1, 0; (471479), 3, 1, 0; (497297), 3, 1, 0; (512335), 2, 1, 0; (577727), 3, 1, 0; (580575), 3, 1, 0; (585020), 3, 1, 0; *[500, 170, 0∗, 2021/02/20–2021/09/17]*

900 Moriyama

Observer Y. Ikari. 0.26-m f/7.0 reflector + CCD.

2021 QD_1, 12, 1, 0; 2021 RB_1, 5, 1, 0; (10234), 2, 1, 0; (12539), 2, 1, 0; (17019), 2, 1, 0; (21928), 2, 1, 0; (37080), 2, 1, 0; (59915), 2, 1, 0; (74511), 2, 1, 0; (84148), 2, 1, 0; *[33, 10, 0∗, 2021/08/07–2021/09/09]*

910 Caussols-ODAS

Observers A. Maury, D. Albanese, G. Hahn, M. Hoffmann. Measurers A. Maury, G. Hahn. 0.90m Schmidt + CCD.

2016 GO_{309}, 3, 1, 0; *[3, 1, 0∗, 1998/10/14]*

926 Tenagra II Observatory, Nogales

Observers M. Schwartz, P. R. Holvorcem, J.-C. Merlin. Measurers M. Schwartz, P. R. Holvorcem. 0.81-m f/7 Ritchey-Chrétien + CCD, 0.41-m f/3.75 astrograph + CCD.

2005 QN_{208}, 3, 1, 0; 2006 AF_{117}, 3, 1, 0; 2006 DK_{139}, 3, 1, 0; 2007 VK_{377}, 3, 1, 0; 2008 SZ_{351}, 3, 1, 0; 2011 UD_{480}, 3, 1, 0; 2012 ST_{95} ∗, 3, 1, 0; 2012 SG_{96} ∗, 3, 1, 0; 2013 CF_{253} ∗, 6, 2, 21; 2014 EA_{257}, 3, 1, 0; 2015 BM_{560}, 3, 1, 0; 2015 MU_{78}, 3, 1, 0; 2016 VD_{51} ∗, 3, 1, 0; 2017 SE_{275},

3, 1, 0; 2017 SG_{275}, 3, 1, 0; 2017 UA_{59}, 3, 1, 0; 2021 LV_{29}, 3, 1, 0; 2021 NL_{31}, 3, 1, 0; 2021 NB_{41}, 3, 1, 0; 2021 PL_{54}, 3, 1, 0; *[63, 20, 4*, 2003/05/25–2017/09/21]*

938 Linhaceira

Observer R. Goncalves. 0.35-m $f/5$ Schmidt-Cassegrain + CCD.

(159857), 3, 1, 0; (326732), 3, 1, 0; *[6, 2, 0*, 2021/07/09]*

950 La Palma

Observers M. Melita, I. Williams, J. Papaloizou, A. Fitzsimmons. 2.5-m Isaac Newton Telescope + CCD. (03)

Observers O. Vaduvescu, M. Popescu, V. Pinter, T. Davison, T. Wilson, H. Stoev, V. Tudor, I. Perez, A. Bereciartua-Goikoetxea, M. Gomez-Jimenez, F. Jimenez-Ibarra, C. Martinez-Lombilla, J. Nadolny, S. Taibi, Y. Ramanjooloo, F. Perez Toledo, P. Short, M. Hollands, C. Boldea, A. Boldea, S. Hidalgo, S. Murabito, D. Jones, N. Humphries. Measurers O. Vaduvescu, M. Popescu, V. Pinter, A. Boldea, S. Anghel, D. Gorgan, V. Bacu, T. Stefanut, A. Sabou, D. Balazs, C. Nandra, L. Hudin, M. Stanescu, E. Petrescu, C. Boldea, A. Stoica, A. Buhulea, D. Bertesteanu, A. Stanica, R. Toma, R. Gherase, D. Ciobanu, M. Predatu, A. Tudorica, V. Tudor, T. Mocnik, M. Diaz, I. Ordonez, A. Dumitriu, F. Perez Toledo, I. Dima, F. Char. 2.5-m $f/3.3$ reflector + CCD. (23)

{23} 2008 UF_{417}, 4, 1, 0; 2009 QG_{79}, 4, 1, 0; 2009 SN_2, 3, 1, 0; 2011 RD_{35}, 6, 1, 0; 2013 HL_{164}, 6, 1, 0; 2013 SW_{111}, 5, 1, 0; 2014 OO_{161}, 6, 1, 0; 2014 QS_{20}, 3, 1, 0; 2014 QN_{213}, 4, 1, 0; 2016 GU_{307}, 4, 1, 0; 2017 FQ_{53}, 7, 1, 0; 2018 MD_1, 6, 1, 0; 2018 VZ_{148} *, 4, 1, 0; 2019 WO_{20}, 3, 1, 0; 2020 BE_{91}, 4, 1, 0; 2020 PT_{74}, 4, 1, 0; 2021 NC_{29}, 4, 1, 0; 2021 NH_{37}, 5, 1, 0; 2021 OJ_{13}, 4, 1, 0; (545875), 3, 1, 0; *[89, 20, 1*, 2013/09/28–2020/01/14]*

{3} 2016 NN_{150}, 3, 1, 0; 2021 OB_4, 3, 1, 0; *[6, 2, 0*, 2002/11/02–2002/11/04]*

954 Teide Observatory

Observers M. Serra-Ricart, M. R. Alarcon, J. Licandro, E. G. Padron. Measurers S. Lemes-Perera, J. Gonzalez-Edo, G. Montero-Gil, M. R. Alarcon.

2016 QE_{131}, 12, 2, 1; 2018 TU_{42}, 5, 1, 0; 2021 MG_1, 3, 1, 0; *[20, 3, 0*, 2018/10/31–2021/08/27]*

958 Observatoire de Dax

Observers P. Dupouy, J. B. de Vanssay, F. Losse. Measurer P. Dupouy. 0.32-m Schmidt-Cassegrain + CCD, 0.43-m $f/2.7$ reflector + CCD.

2004 XJ_{29}, 3, 1, 0; 2008 CD_6, 3, 1, 0; 2010 RJ_{53}, 3, 1, 0; 2021 PW_4, 3, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QA_1, 3, 1, 0; 2021 QC_1, 3, 1, 0; 2021 QE_1, 3, 1, 0; 2021 QK_1, 3, 1, 0; 2021 QL_1, 3, 1, 0; 2021 QM_1, 3, 1, 0; 2021 QN_1, 3, 1, 0; 2021 QO_1, 3, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QV_1, 3, 1, 0; 2021 QZ_1, 3, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QM_2, 3, 1, 0; 2021 QB_3, 6, 2, 1; 2021 QH_3, 3, 1, 0; 2021 QL_3, 3, 1, 0; 2021 QN_3, 3, 1, 0; 2021 RB, 3, 1, 0; 2021 RF, 3, 1, 0; 2021 RH, 6, 2, 1; 2021 RA_1, 3, 1, 0; 2021 RB_1, 6, 1, 0; 2021 RC_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RG_2, 6, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RX_2, 3, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RM_3, 3, 1, 0; 2021 RQ_3, 3, 1, 0; 2021 RU_3, 3, 1, 0; 2021 RA_4, 3, 1, 0; 2021 RK_4, 3, 1, 0; 2021 RP_4, 3, 1, 0; 2021 RQ_4, 3, 1, 0; 2021 RS_5, 3, 1, 0; 2021 RB_6, 3, 1, 0; 2021 RH_6, 3, 1, 0; 2021 RK_6, 3, 1, 0; 2021 RL_6, 3, 1, 0; 2021 RY_6, 3, 1, 0; 2021 RU_7, 6, 2, 1; 2021 RA_8, 3, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RC_{10}, 3, 1, 0; 2021 RD_{10}, 3, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RK_{10}, 3, 1, 0; 2021 RM_{10}, 3, 1, 0; 2021 RN_{10}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RJ_{14}, 3, 1, 0; 2021 RD_{20}, 3, 1, 0; 2021 SA, 3, 1, 0; 2021 SB, 3, 1, 0; 2021 SC, 3, 1, 0; 2021 SD, 3, 1, 0; 2021 SE, 3, 1, 0; 2021 SF, 3, 1, 0; 2021 SG, 3, 1, 0; 2021 SJ, 3, 1, 0; *[234, 73, 0*, 2021/08/09–2021/09/17]*

A13 Observatoire Naef, Marly

Observer P. Kocher. 0.5-m $f/3.3$ Hypergraph + CCD.

2008 EN_{85}, 2, 1, 0; *[2, 1, 0*, 2014/05/17]*

A17 Guidestar Observatory, Weinheim

Observers M. Emmerich, S. Melchert. 0.36-m $f/6.0$ Schmidt-Cassegrain + CCD.

2004 XJ_{29}, 6, 2, 1; 2007 TA_{25}, 3, 1, 0; 2008 GO_{20}, 3, 1, 0; 2008 QU_3, 3, 1, 0; 2008 TC_4, 6, 2, 4; 2009 QH_6, 3, 1, 0; 2009 UF_{167}, 3, 1, 0; 2013 NZ_{23}, 3, 1, 0; 2013 RZ_{73}, 4, 1, 0; 2017 GL_7, 3, 1, 0; 2018 BP, 6, 2, 22; 2018 DA_{10}, 3, 1, 0; 2019 AF_{12}, 6, 2, 11; 2020 PP, 3, 1, 0; 2020 PN_1, 3, 1, 0; 2021 JH_2, 3, 1, 0; 2021 LK_2, 3, 1, 0; 2021 LQ_{24}, 6, 2, 5; 2021 MP_1, 6, 2, 22; 2021 NZ_1, 2, 1, 0; 2021 NY_4, 3, 1, 0; 2021 NQ_5, 3, 1, 0; 2021 NS_5, 6, 2, 4; 2021 OZ, 3, 1, 0; 2021 PG, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 PA_2, 6, 2, 5; 2021 PF_2, 3, 1, 0; 2021 PO_2, 6, 2, 8; 2021 PR_2, 3, 1, 0; 2021 PW_4, 6, 2, 1; 2021 PZ_4, 3, 1, 0; 2021 PG_5, 4, 1, 0; 2021 PK_5, 3, 1, 0; 2021 PT_6, 3, 1, 0; 2021 PD_7, 6, 2, 2; 2021 PB_9, 3, 1, 0; 2021 PU_9, 3, 1, 0; 2021 PB_{10}, 6, 2, 1; 2021 PE_{10}, 3, 1, 0; 2021 PG_{10}, 6, 2, 1; 2021 PB_{15}, 6, 2, 1; 2021 PE_{20}, 3, 1, 0; 2021 PL_{23}, 6, 2, 2; 2021 PY_{40}, 3, 1, 0; 2021 PG_{46}, 3, 1, 0; 2021 QP, 6, 2, 2; 2021 QW, 6, 2, 2; 2021 QE_1, 3, 1, 0; 2021 QH_1, 3, 1, 0; 2021 QM_1, 3, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QB_3, 12, 3, 2; 2021 QN_3, 6, 2, 1; 2021 QV_6, 3, 1, 0; 2021 RA, 3, 1, 0; 2021 RB, 6, 2, 1; 2021 RF, 3, 1, 0; 2021 RH, 4, 1, 0; 2021 RZ, 3, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RG_2, 4, 1, 0; 2021 RS_2, 4, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RM_3, 4, 1, 0; 2021 RU_3, 3, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RA_{10}, 4, 1, 0; (9441), 3, 1, 0; (22220), 3, 1, 0; (31182), 3, 1, 0; (69112), 3, 1, 0; (74283), 3, 1, 0; (75497), 3, 1, 0; (77370), 3, 1, 0; (81518), 3, 1, 0; (87261), 3, 1, 0; (103006), 3, 1, 0; (120385), 3, 1, 0; (255717), 3, 1, 0; (260141), 3, 1, 0; (303766), 3, 1, 0; (471108), 3, 1, 0; (506808), 6, 2, 3; (523585), 5, 2, 2; (523593), 3, 1, 0; *[341, 88, 0*, 2021/06/15–2021/09/12]*

A57 Osservatorio Astron. Margherita Hack, Firenze

Observers N. Montigiani, M. Mannucci. 0.35-m $f/11$ Schmidt-Cassegrain + CCD + $f/8.25$ focal reducer.

2021 QL_2, 3, 1, 0; *[3, 1, 0*, 2021/08/30]*

A71 Stixendorf

Observers M. Jaeger, E. Prosperi, S. Prosperi. Measurer M. Jaeger. 0.3-m $f/4.0$ reflector + CCD.

2010 OE_{101}, 2, 1, 0; (248370), 7, 2, 4; *[9, 2, 0*, 2021/09/04–2021/09/08]*

A77 Observatoire Chante-Perdrix, Dauban

Observers F. Kugel, C. Rinner, J.-G. Bosch, C. Demeautis. 0.4-m $f/2.8$ reflector + CCD, 0.5-m $f/3$ reflector + CCD.

2008 CO_{246}, 3, 1, 0; 2008 QJ_9, 3, 1, 0; 2010 CD_{264}, 3, 1, 0; 2011 UN_{476}, 3, 1, 0; 2014 HW_{172}, 3, 1, 0; 2014 JX_{124}, 3, 1, 0; 2014 RB_{18}, 8, 3, 10; 2014 WX_{595}, 3, 1, 0; 2016 NJ_{149}, 3, 1, 0; 2021 MS_{14}, 3, 1, 0; 2021 NK_{25}, 3, 1, 0; 2021 RM_9, 3, 1, 0; 2021 RQ_{17}, 3, 1, 0; (1483), 3, 1, 0; (2060), 3, 1, 0; (2133), 3, 1, 0; (2350), 3, 1, 0; (4558), 3, 1, 0; (6329), 4, 1, 0; (7192), 3, 1, 0; (12847), 3, 1, 0; (18871), 3, 1, 0; (21992), 3, 1, 0; (22668), 2, 1, 0; (27218), 3, 1, 0; (30057), 2, 1, 0; (39307), 3, 1, 0; (43421), 3, 1, 0; (44521), 3, 1, 0; (79058), 3, 1, 0; (89207), 3, 1, 0; (91632), 3, 1, 0; (102051), 3, 1, 0; (103535), 3, 1, 0; (103597), 3, 1, 0; (107920), 3, 1, 0; (111747), 3, 1, 0; (114773), 3, 1, 0; (128424), 3, 1, 0; (129303), 3, 1, 0; (134307), 2, 1, 0; (142219), 3, 1, 0; (182754), 3, 1, 0; (244508), 3, 1, 0; (248370), 3, 1, 0; (252193), 3, 1, 0; (277991), 3, 1, 0; (287974), 3, 1, 0; (311222), 3, 1, 0; (348141), 2, 1, 0; (368932), 3, 1, 0; (381895), 3, 1, 0; (394245), 3, 1, 0; (404672), 2, 1, 0; (417497), 3, 1, 0; (469903), 3, 1, 0; (470821), 3, 1, 0; (473956), 3, 1, 0; (475228), 3, 1, 0; (477606), 6, 1, 0; (501230), 3, 1, 0; (505438), 3, 1, 0; (560071), 3, 1, 0; (560829), 3, 1, 0; (567903), 2, 1, 0; (578012), 2, 1, 0; (583232), 2, 1, 0; (583616), 3, 1, 0; *[205, 68, 0*, 2010/09/14–2021/09/19]*

A79 Zvezdno Obshtestvo Observatory, Plana

Observer F. Fratev. 0.35-m $f/3.5$ reflector + CCD.

2010 PX_{91}, 2, 1, 0; *[2, 1, 0*, 2010/09/09]*

A98 Observatory Mazzarot-1, Baran

Observer S. Shurpakov. 0.41-m $f/3.9$ reflector + CCD.

(88158), 10, 1, 0; *[10, 1, 0*, 2021/09/10]*

B18 Terskol

Observers I. Izviekova, V. Godunova. Measurer A. Simon. 2-m $f/8$ Ritchey-Chrétien + CCD.

2012 BA_{35}, 37, 1, 0; *[37, 1, 0*, 2021/08/04]*

B37 Obs. de LÁmetlla del Valles, Barcelona

Observer A. Garrigós. 0.51-m $f/4.0$ reflector + CCD.

2021 RU_{10}, 3, 1, 0; 2021 SH, 3, 1, 0; 2021 SJ, 3, 1, 0; 2021 SO, 3, 1, 0; *[12, 4, 0*, 2021/09/12–2021/09/19]*

B38 Santa Mama
Observer S. Trevisan. 0.3-m $f/0.63$ refractor + CCD.

2021 MG_1, 14, 3, 26; 2021 PJ, 5, 1, 0; 2021 PT, 15, 3, 7; 2021 PS_2, 13, 3, 7; (159857), 5, 1, 0; (199003), 8, 2, 8; *[60, 6, 0∗, 2021/08/11–2021/09/06]*

B49 Paus Observatory, Sabadell
Observer J. Camarasa. 0.30-m $f/4.0$ reflector + CCD.

2021 PO_2, 5, 2, 3; 2021 QA, 3, 1, 0; 2021 QP, 3, 1, 0; 2021 RZ_5, 4, 1, 0; 2021 RB_6, 4, 1, 0; 2021 RJ_6, 4, 1, 0; 2021 RU_7, 4, 1, 0; 2021 RA_{10}, 2, 1, 0; 2021 RC_{10}, 4, 1, 0; 2021 RU_{10}, 4, 1, 0; 2021 RG_{12}, 4, 1, 0; 2021 SG, 6, 1, 0; 2021 SH, 2, 1, 0; 2021 SJ, 2, 1, 0; 2021 SM, 2, 1, 0; 2021 SO, 4, 1, 0; *[57, 16, 0∗, 2021/08/17–2021/09/19]*

B67 Sternwarte Mirasteilas, Falera
Observer J. De Queiroz. 0.9-m $f/6.4$ reflector + CCD.

2003 QA, 3, 1, 0; 2007 TA_{25}, 3, 1, 0; 2008 CD_6, 8, 1, 0; 2019 AF_{12}, 3, 1, 0; 2021 LN_{15}, 3, 1, 0; 2021 LQ_{24}, 3, 1, 0; 2021 PA_2, 3, 1, 0; 2021 PG_{10}, 4, 1, 0; 2021 PL_{23}, 3, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QM_1, 4, 1, 0; 2021 QA_2, 3, 1, 0; 2021 RA, 3, 1, 0; *[46, 13, 0∗, 2021/09/01–2021/09/08]*

B72 Soerth
Observer B. Koch. 0.36-m $f/7.6$ Schmidt-Cassegrain + CCD + $f/7.6$ focal reducer.

2000 PN_8, 4, 1, 0; 2009 QH_6, 4, 1, 0; 2019 NC_1, 8, 1, 0; 2021 PU_9, 4, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 QM_1, 12, 1, 0; 2021 QB_3, 5, 1, 0; (20658), 3, 1, 0; *[43, 8, 0∗, 2021/08/11–2021/09/03]*

B74 Santa Maria de Montmagastrell
Observer J. M. Bosch. 0.40-m $f/10$ Schmidt-Cassegrain, 0.4-m $f/1.20$ Schmidt-Cassegrain + CCD, 0.4-m $f/1.2$ Schmidt-Cassegrain + CCD.

2004 RY_{39}, 3, 1, 0; 2006 CC_{73}, 3, 1, 0; 2010 RP_{92}, 3, 1, 0; 2010 VN_{254}, 3, 1, 0; 2013 GQ_{13}, 3, 1, 0; 2014 OF_2, 3, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QR_1, 3, 1, 0; (183), 3, 1, 0; (1523), 3, 1, 0; (6132), 3, 1, 0; (16024), 3, 1, 0; (23100), 3, 1, 0; (29216), 3, 1, 0; (36817), 3, 1, 0; (62586), 3, 1, 0; (82486), 3, 1, 0; (93991), 3, 1, 0; (96977), 3, 1, 0; (106425), 3, 1, 0; (137584), 3, 1, 0; (147944), 3, 1, 0; (151484), 3, 1, 0; (156579), 3, 1, 0; (160481), 3, 1, 0; (187397), 3, 1, 0; (196495), 3, 1, 0; (197516), 3, 1, 0; (201595), 3, 1, 0; (205940), 3, 1, 0; (206994), 3, 1, 0; (213586), 3, 1, 0; (248801), 3, 1, 0; (268477), 3, 1, 0; (271750), 3, 1, 0; (275926), 3, 1, 0; (289590), 3, 1, 0; (297773), 3, 1, 0; (304408), 3, 1, 0; (304671), 3, 1, 0; (357870), 3, 1, 0; (411758), 3, 1, 0; (474798), 3, 1, 0; *[129, 43, 0∗, 2021/07/18–2021/09/05]*

B88 Bigmuskie Observatory, Mombercelli
Observer A. Ferrero. 0.4-m reflector + CCD.

2010 JM_{151}, 3, 1, 0; 2019 AF_{12}, 3, 1, 0; (184122), 3, 1, 0; *[9, 3, 0∗, 2021/08/10–2021/09/17]*

B91 Bollwiller
Observer C. Demeautis. 0.28-m $f/2.2$ reflector + CCD.

2019 NC_1, 3, 1, 0; 2021 RF, 3, 1, 0; 2021 RG_2, 3, 1, 0; (4067), 3, 1, 0; (4232), 3, 1, 0; (8766), 3, 1, 0; (11834), 3, 1, 0; (13382), 3, 1, 0; (16986), 3, 1, 0; (19844), 3, 1, 0; (29743), 3, 1, 0; (37036), 3, 1, 0; (38230), 3, 1, 0; (41924), 3, 1, 0; (46922), 3, 1, 0; (56174), 3, 1, 0; (56472), 3, 1, 0; (60675), 2, 1, 0; (76260), 3, 1, 0; (87309), 2, 1, 0; (212340), 3, 1, 0; (242745), 3, 1, 0; (258085), 3, 1, 0; (402947), 3, 1, 0; *[70, 24, 0∗, 2021/09/04–2021/09/06]*

B96 Brixiis Observatory, Kruibeke
Observer E. Bryssinck. 0.4-m $f/3.8$ reflector + CCD.

2007 TE_{70}, 2, 1, 0; (31867), 3, 1, 0; (55132), 3, 1, 0; *[8, 3, 0∗, 2021/08/14–2021/09/05]*

C23 Olmen
Observer A. Diepvens. 0.20-m $f/9$ refractor + CCD.

2019 NC_1, 5, 1, 0; 2021 QB_3, 15, 1, 0; 2021 SG, 7, 1, 0; (6174), 6, 2, 4; (80514), 3, 1, 0; (130073), 3, 1, 0; (285571), 3, 1, 0; *[42, 7, 0∗, 2021/08/14–2021/09/17]*

C40 Kuban State University Astrophysical Observatory
Observers A. Ivanov, A. Barcov, V. Ivanov, V. Lysenko, N. Yakovenko, N. Ivanova. Measurer A. Ivanov. 0.51-m $f/8$ reflector + CCD. (01)

{1} (159857), 305, 17, 23; (326732), 264, 7, 10; *[569, 2, 0∗, 2021/08/15–2021/09/18]*

C42 Xingming Observatory, Mt. Nanshan
Observers Q. Yin, X. Gao, Z. Xu, J. Ruan, X. Liao. Measurers Q. Yin, Z. Xu, J. Ruan, X. Liao. 0.5-m $f/4$ reflector + CCD, 0.6-m $f/8$ Ritchey-Chrétien + CCD.

2004 PY_{119}, 1, 1, 0; 2005 XE_{46}, 3, 1, 0; 2007 DG_{17}, 3, 1, 0; 2011 UR_{476}, 2, 1, 0; 2013 RB_{116}, 3, 1, 0; 2016 NZ_{149}, 3, 1, 0; 2018 AJ_{48}, 3, 1, 0; 2021 OV_3, 2, 1, 0; (520165), 2, 1, 0; *[22, 9, 0∗, 2017/09/16–2018/02/12]*

C43 Hoyerswerda
Observer P. Lindner. 0.30-m $f/6.3$ Schmidt-Cassegrain + CCD.

2021 RH, 4, 1, 0; *[4, 1, 0∗, 2021/09/03]*

C47 Nonndorf
Observer G. Dangl. 0.25-m $f/4.8$ reflector + CCD.

2021 RA, 5, 1, 0; 2021 RB_1, 7, 1, 0; (12892), 4, 1, 0; *[16, 3, 0∗, 2021/09/05–2021/09/06]*

C51 WISE
Observer Near-Earth Object Wide-field Infrared Survey Explorer. Measurers A. K. Mainzer, J. M. Bauer, T. Grav, J. R. Masiero, R. M. Cutri, J. W. Dailey, E. Kramer, J. Pittichová, E. L. Wright. 0.4-m reflector.

1998 UQ_1, 12, 2, 1; 2000 AP_{209}, 20, 3, 1; 2002 EY_{109}, 12, 1, 0; 2003 QA_{30}, 10, 1, 0; 2005 TR_{45}, 16, 3, 1; 2005 YV_2, 34, 4, 2; 2006 VD_{170}, 18, 3, 1; 2010 MB_{95}, 10, 2, 1; 2014 NG_{63}, 18, 3, 2; 2016 ER, 14, 2, 1; 2016 EB_{240}, 14, 2, 1; 2017 AP_{20}, 14, 2, 1; 2017 OE_{68}, 28, 4, 2; 2017 QV_{34}, 28, 4, 2; 2017 RG, 38, 6, 8; 2019 NC_1, 10, 1, 0; 2020 NK_1, 2, 1, 0; 2021 JG_7, 16, 2, 1; 2021 LD_1, 14, 2, 1; 2021 MG_1, 10, 1, 0; 2021 NU_1, 12, 1, 0; 2021 ND_2, 58, 8, 7; 2021 PH_4, 22, 2, 1; 2021 PX_6 ∗, 62, 7, 3; 2021 PN_{26} ∗, 10, 1, 0; 2021 QA_6 ∗, 20, 2, 1; (1), 48, 5, 5; (5), 18, 2, 1; (24), 26, 4, 4; (30), 36, 6, 4; (38), 10, 2, 1; (42), 24, 3, 1; (44), 24, 3, 1; (48), 18, 2, 1; (56), 28, 3, 1; (63), 6, 1, 0; (73), 30, 3, 1; (83), 22, 3, 1; (85), 48, 6, 5; (96), 24, 3, 1; (105), 28, 3, 1; (106), 20, 3, 1; (114), 26, 3, 1; (115), 18, 3, 1; (131), 12, 2, 1; (145), 22, 3, 1; (147), 24, 3, 1; (154), 14, 2, 1; (159), 12, 1, 0; (162), 22, 3, 1; (165), 30, 3, 1; (166), 20, 3, 1; (170), 14, 2, 1; (185), 34, 3, 2; (186), 34, 3, 1; (197), 26, 3, 1; (212), 20, 2, 1; (219), 28, 4, 2; (221), 26, 3, 1; (225), 26, 3, 1; (249), 16, 2, 1; (260), 2, 1, 0; (264), 26, 4, 4; (276), 14, 3, 1; (277), 30, 4, 4; (278), 14, 2, 1; (288), 44, 6, 5; (300), 14, 2, 1; (302), 30, 3, 1; (308), 26, 3, 1; (311), 28, 3, 1; (319), 16, 2, 1; (322), 32, 3, 2; (334), 16, 2, 1; (335), 26, 3, 1; (337), 34, 3, 2; (355), 26, 3, 1; (360), 30, 3, 1; (365), 26, 3, 1; (375), 28, 3, 1; (396), 24, 3, 1; (399), 28, 3, 1; (405), 26, 3, 1; (419), 22, 3, 1; (420), 16, 2, 1; (427), 20, 3, 1; (432), 22, 2, 1; (435), 28, 3, 2; (444), 20, 2, 1; (453), 28, 3, 1; (456), 44, 4, 5; (473), 38, 5, 5; (479), 18, 2, 1; (485), 20, 2, 1; (489), 12, 2, 1; (494), 24, 3, 1; (514), 26, 3, 1; (521), 32, 3, 2; (530), 56, 6, 5; (535), 28, 3, 1; (561), 14, 2, 1; (569), 14, 2, 1; (577), 26, 3, 1; (582), 40, 6, 4; (586), 24, 3, 1; (597), 26, 3, 1; (608), 22, 2, 1; (613), 24, 3, 1; (619), 42, 5, 5; (624), 24, 3, 1; (625), 26, 3, 1; (626), 32, 4, 2; (655), 30, 3, 1; (659), 18, 3, 1; (661), 30, 3, 1; (665), 4, 1, 0; (667), 42, 6, 4; (668), 22, 3, 1; (690), 32, 3, 1; (700), 28, 3, 1; (740), 12, 2, 1; (742), 28, 3, 1; (753), 24, 3, 1; (758), 20, 3, 1; (760), 22, 3, 1; (771), 56, 7, 6; (779), 60, 6, 5; (789), 18, 3, 1; (793), 28, 3, 1; (796), 38, 4, 2; (801), 14, 2, 1; (805), 26, 3, 1; (824), 26, 3, 1; (833), 42, 5, 5; (837), 12, 2, 1; (839), 28, 3, 4; (847), 20, 2, 1; (857), 20, 3, 1; (861), 24, 3, 1; (865), 10, 2, 1; (871), 12, 2, 1; (873), 20, 3, 1; (883), 36, 3, 2; (885), 28, 3, 1; (890), 24, 3, 1; (893), 30, 3, 1; (895), 14, 2, 1; (907), 28, 3, 1; (913), 28, 3, 1; (915), 48, 6, 6; (922), 22, 3, 1; (926), 18, 2, 1; (934), 28, 3, 1; (974), 32, 3, 1; (978), 26, 3, 1; (981), 32, 3, 1; (984), 30, 3, 2; (1000), 14, 3, 1; (1001), 30, 3, 1; (1009), 116, 10, 11; (1021), 16, 2, 1; (1023), 2, 1, 0; (1068), 22, 2, 1; (1084), 30, 3, 1; (1092), 18, 3, 1; (1093), 24, 3, 1; (1096), 28, 3, 1; (1107), 10, 2, 1; (1110), 30, 3, 1; (1140), 62, 6, 5; (1146), 28, 3, 1; (1157), 32, 3, 1; (1172), 18, 2, 1; (1175), 18, 2, 1; (1188), 34, 3, 2; (1189), 28, 3, 1; (1199), 28, 3, 1; (1200), 12, 2, 1; (1211), 28, 3, 1; (1245), 16, 2, 1; (1246), 16, 2, 1; (1269), 14, 2, 1; (1289), 26, 3, 1; (1309), 14, 2, 1; (1312), 26, 3, 1; (1346), 26, 3, 1; (1355), 16, 3, 1; (1361), 16, 2, 1; (1367), 28, 3, 1; (1383), 28, 3, 1; (1393), 14, 2, 1; (1394), 16, 2, 1; (1396), 30, 3, 1; (1398), 16, 3, 1; (1403), 16, 2, 1; (1434), 12, 2, 1; (1437), 16, 2, 1; (1438), 32, 3, 4; (1450), 28, 3, 2; (1459), 30, 3, 1; (1497), 14, 1, 0; (1503), 12, 2, 1; (1512), 14, 2, 1; (1516), 14, 2, 1; (1517), 22, 2, 1; (1536), 28, 3, 2; (1548), 38, 3, 1; (1554), 28, 3, 1; (1558), 36, 3, 1; (1562), 24, 3, 1; (1572), 22, 3, 1; (1583), 20, 3, 1; (1584), 30, 3, 2; (1586), 20, 3, 1; (1589), 12, 2, 1; (1592), 12, 2, 1; (1594), 16, 3, 1; (1596), 20, 3, 1; (1602), 14, 3, 1; (1606), 32, 3, 2; (1623), 6, 1, 0; (1628), 18, 3, 1; (1637), 20, 3, 1; (1646), 34, 4, 2; (1650), 28, 3, 1; (1651), 28, 3, 1; (1666), 24, 3, 2; (1679), 28, 2, 1; (1715), 22, 3, 1; (1717), 28, 3, 2; (1720), 32, 3, 2; (1723), 20, 2, 1; (1731), 14, 2, 1; (1733), 18, 3, 2; (1735), 20, 2, 1; (1739), 24, 3, 1; (1748), 28, 3, 1; (1751), 24, 3, 1; (1769), 26, 3, 1; (1776), 24, 3, 1; (1781), 24, 3, 1; (1791), 2, 1, 0; (1795), 14, 2, 1; (1801), 20, 3, 1; (1814), 30, 4, 2; (1838), 10, 2, 1; (1843), 18, 3, 1; (1853), 36, 5, 5; (1888), 32, 3, 1; (1903), 28, 3, 1; (1911), 56, 6, 5; (1936), 52, 6, 5; (1938), 26, 3, 1; (1942), 28, 3, 1; (1963), 18, 2, 1; (1985), 26, 2, 1; (1991), 14, 2,

1; (2017), 16, 3, 1; (2038), 16, 2, 1; (2057), 22, 3, 1; (2070), 12, 2, 1; (2094), 8, 2, 1; (2104), 14, 2, 1; (2107), 30, 4, 4; (2109), 30, 3, 1; (2110), 16, 2, 1; (2119), 12, 2, 1; (2124), 10, 2, 1; (2133), 16, 3, 1; (2139), 18, 2, 1; (2141), 12, 2, 1; (2181), 20, 3, 1; (2184), 22, 3, 1; (2193), 28, 3, 1; (2204), 8, 1, 0; (2217), 14, 2, 1; (2241), 16, 2, 1; (2245), 36, 4, 4; (2255), 24, 3, 5; (2272), 14, 2, 1; (2287), 32, 3, 1; (2290), 10, 1, 0; (2308), 24, 3, 1; (2311), 26, 4, 4; (2323), 28, 3, 1; (2324), 16, 2, 1; (2359), 24, 3, 1; (2363), 18, 2, 1; (2371), 12, 2, 1; (2405), 26, 3, 1; (2406), 14, 2, 1; (2407), 26, 3, 1; (2411), 4, 1, 0; (2426), 18, 3, 1; (2442), 10, 1, 0; (2446), 16, 3, 1; (2460), 18, 3, 2; (2473), 26, 4, 2; (2478), 14, 3, 1; (2490), 22, 3, 1; (2530), 22, 3, 1; (2556), 18, 3, 2; (2564), 12, 2, 1; (2567), 18, 3, 1; (2571), 64, 8, 6; (2577), 32, 6, 7; (2582), 26, 3, 1; (2585), 32, 3, 2; (2638), 24, 3, 1; (2642), 18, 3, 1; (2669), 10, 2, 1; (2740), 22, 3, 1; (2760), 18, 2, 1; 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(39555), 18, 3, 2; (39607), 14, 2, 1; (40123), 16, 3, 1; (40387), 32, 3, 2; (40584), 10, 3, 1; (40749), 10, 2, 1; (40827), 30, 4, 5; (41114), 32, 3, 1; (41381), 24, 3, 1; (41538), 22, 3, 1; (41684), 28, 4, 2; (41800), 10, 2, 1; (42496), 30, 3, 1; (42637), 10, 2, 1; (42784), 14, 3, 1; (42807), 20, 3, 1; (42833), 46, 6, 6; (42899), 32, 3, 2; (42993), 18, 3, 1; (43251), 14, 3, 1; (43288), 16, 3, 1; (43347), 12, 3, 1; (43356), 10, 2, 1; (43482), 40, 4, 2; (43735), 52, 6, 5; (43850), 28, 3, 2; (44168), 14, 3, 1; (44434), 14, 2, 1; (44463), 16, 3, 1; (44766), 10, 2, 1; (45164), 16, 3, 2; (45291), 32, 3, 1; (45357), 32, 3, 2; (45480), 16, 3, 1; (45513), 22, 2, 1; (45634), 16, 2, 1; (45791), 20, 3, 1; (46581), 16, 2, 1; (46751), 12, 2, 1; (46965), 24, 3, 1; (46966), 34, 3, 1; (47110), 28, 3, 1; (47461), 34, 3, 1; (47752), 10, 2, 1; (48366), 32, 3, 2; (48590), 70, 7, 7; (48902), 16, 3, 1; (49246), 24, 3, 2; (49671), 10, 2, 1; (50065), 26, 3, 1; (50236), 16, 2, 1; (50495), 10, 2, 1; (50684), 28, 3, 1; (50810), 12, 2, 1; (51500), 10, 3, 1; (51557), 18, 2, 1; (52439), 20, 3, 2; (52759), 60, 6, 7; (52963), 12, 2, 1; (53054), 14, 3, 1; (53315), 12, 2, 1; (53517), 32, 3, 1; (53993), 14, 2, 1; (54412), 10, 3, 1; (54739), 30, 4, 5; (54817), 22, 3, 1; (54935), 14, 3, 1; (55111), 12, 2, 1; (55582), 26, 3, 1; (55623), 20, 2, 1; (56132), 18, 2, 1; (56259), 10, 2, 1; (57036), 14, 2, 1; (57292), 36, 4, 2; (57348), 28, 4, 5; (58287), 14, 3, 1; (58336), 14, 2, 1; (58460), 26, 3, 2; (58603), 18, 3, 2; (59084), 12, 2, 1; (59510), 54, 6, 5; (59764), 14, 2, 1; (60733), 30, 4, 5; (60868), 26, 3, 1; (61348), 22, 3, 1; (61417), 10, 2, 1; (61698), 12, 3, 1; (62120), 26, 3, 1; (62845), 14, 2, 1; (63313), 16, 2, 1; (64220), 38, 4, 2; (64472), 28, 3, 1; (64601), 18, 3, 1; (64677), 32, 4, 2; (65122), 16, 3, 1; (65127), 32, 3, 2; (65656), 12, 2, 1; (65660), 28, 3, 1; (65672), 20, 3, 2; (65688), 30, 3, 1; (65871), 20, 3, 1; (66269), 28, 3, 1; (66270), 18, 3, 1; (66305), 2, 1, 0; (66605), 14, 2, 1; (66878), 34, 4, 2; (66974), 12, 3, 1; (67029), 30, 3, 1; (67069), 34, 3, 1; (67193), 26, 3, 1; (67311), 12, 2, 1; (67502), 12, 2, 1; (67918), 16, 2, 1; (68462), 16, 2, 1; (68530), 10, 2, 1; (68756), 28, 4, 5; (69063), 28, 3, 2; (69488), 20, 3, 1; (70339), 14, 3, 1; (70366), 36, 4, 5; (70461), 20, 3, 1; (71189), 46, 6, 6; (71345), 20, 3, 2; (71354), 12, 2, 1; (71369), 22, 3, 1; (72384), 12, 2, 1; (72569), 26, 4, 2; (73553), 12, 3, 1; (73888), 16, 2, 1; (74353), 10, 2, 1; (74819), 22, 3, 1; (74820), 40, 4, 2; (74823), 20, 3, 2; (75059), 14, 3, 1; (75268), 14, 3, 1; (75364), 10, 3, 1; (75483), 16, 2, 1; (76179), 16, 3, 1; (76864), 12, 3, 2; (77870), 24, 3, 1; (78660), 20, 3, 2; (79165), 24, 3, 1; (79646), 26, 4, 5; (80471), 68, 7, 7; (81351), 26, 3, 2; (81902), 14, 2, 1; (82250), 20, 3, 1; (82354), 38, 4, 2; (84146), 22, 3, 2; (85016), 28, 4, 2; (85214), 24, 3, 2; (85390), 14, 3, 1; (85476), 30, 4, 2; (85972), 12, 2, 1; (86037), 22, 3, 1; (86969), 24, 3, 2; (87002), 14, 3, 1; (87098), 20, 2, 1; (87102), 12, 2, 1; (87227), 18, 2, 1; (87487), 16, 3, 1; (87566), 34, 3, 2; (87721), 26, 3, 1; (87752), 16, 2, 1; (87970), 10, 2, 1; (88097), 18, 3, 2; (88233), 20, 3, 1; (88263), 16, 4, 2; (88333), 14, 3, 2; (89628), 16, 2, 1; (89834), 34, 4, 2; (90466), 32, 4, 2; (90543), 16, 3, 1; (90785), 18, 2, 1; (90894), 16, 3, 2; (91337), 24, 3, 1; (91412), 38, 5, 6; (91538), 30, 4, 2; (92185), 16, 3, 1; (92282), 14, 2, 1; (92469), 20, 2, 1; (92716), 14, 2, 1; (92911), 20, 3, 1; (92963), 14, 2, 1; (94030), 28, 3, 1; (96352), 18, 4, 2; (97068), 16, 3, 2; (97815), 28, 3, 2; (97838), 26, 4, 5; (98415), 60, 8, 7; (100044), 14, 3, 2; (101188), 16, 3, 1; (101567), 24, 3, 2; (101935), 12, 3, 1; (102318), 26, 3, 1; (102448), 24, 2, 1; (103029), 30, 3, 2; (103086), 26, 3, 2; (103176), 20, 3, 1; (104199), 18, 3, 1; (105674), 78, 10, 9; (107544), 10, 2, 1; (109048), 16, 3, 1; (109315), 18, 3, 1; (111777), 12, 2, 1; (112350), 12, 2, 1; (113834), 22, 3, 1; (113953), 24, 3, 1; (114924), 44, 4, 2; (114979), 12, 2, 1; (115332), 10, 2, 1; (117146), 14, 2, 1; (118395), 14, 2, 1; (118403), 16, 2, 1; (118762), 10, 2, 1; (119435), 6, 1, 0; (119649), 30, 3, 1; (119891), 18, 3, 2; (120240), 16, 3, 1; (120713), 16, 3, 1; (121200), 14, 3, 1; (121444), 16,

2, 1; (122350), 10, 2, 1; (122525), 14, 2, 1; (122598), 34, 4, 2; (123025), 30, 3, 2; (123608), 14, 2, 1; (125368), 24, 3, 1; (128618), 10, 2, 1; (128824), 18, 2, 1; (129304), 14, 3, 1; (129503), 16, 3, 1; (129660), 12, 3, 2; (129818), 30, 4, 2; (131029), 16, 3, 1; (131357), 14, 2, 1; (131409), 14, 3, 1; (132949), 18, 2, 1; (133554), 18, 3, 1; (133908), 20, 2, 1; (134303), 10, 3, 1; (134555), 28, 4, 2; (134584), 14, 3, 1; (134705), 32, 3, 2; (136457), 16, 2, 1; (137473), 10, 2, 1; (137826), 24, 3, 2; (137951), 18, 3, 2; (138205), 20, 3, 1; (140631), 2, 1, 0; (142009), 10, 3, 1; (143649), 14, 2, 1; (144678), 24, 4, 2; (145446), 10, 3, 1; (145458), 12, 3, 1; (149437), 20, 3, 1; (150767), 22, 2, 1; (151816), 16, 3, 1; (153029), 12, 2, 1; (153223), 34, 3, 2; (153381), 34, 4, 2; (155707), 20, 2, 1; (157702), 20, 3, 1; (157902), 38, 3, 2; (159473), 42, 5, 5; (159513), 14, 3, 2; (159770), 18, 3, 1; (160553), 22, 3, 2; (160569), 28, 3, 2; (161416), 22, 4, 2; (161943), 20, 3, 1; (162111), 12, 3, 1; (162146), 24, 3, 2; (162158), 16, 2, 1; (162463), 32, 4, 3; (163406), 16, 3, 2; (164936), 30, 4, 2; (166374), 20, 3, 1; (166394), 18, 3, 2; (168128), 12, 3, 1; (168490), 10, 3, 1; (169110), 16, 2, 1; (169799), 26, 3, 1; (172236), 12, 2, 1; (173226), 26, 3, 2; (173273), 14, 3, 2; (173544), 34, 4, 2; (175625), 22, 3, 1; (175799), 24, 3, 2; (176102), 32, 4, 2; (178948), 42, 5, 5; (180611), 56, 6, 5; (180706), 24, 3, 1; (182976), 18, 3, 2; (183017), 40, 6, 7; (186992), 38, 4, 2; (187863), 14, 2, 1; (189249), 14, 2, 1; (192281), 14, 3, 1; (192644), 12, 2, 1; (193364), 22, 4, 2; (198547), 12, 3, 2; (200156), 18, 2, 1; (203002), 28, 3, 1; (203291), 26, 3, 2; (203948), 38, 4, 2; (203950), 14, 3, 1; (206455), 12, 3, 1; (206623), 2, 1, 0; (212333), 12, 1, 0; (212417), 32, 5, 5; (212932), 34, 4, 2; (213069), 30, 4, 2; (213230), 20, 2, 1; (214086), 12, 2, 1; (216531), 10, 2, 1; (217081), 10, 2, 1; (217668), 24, 3, 2; (220898), 16, 3, 2; (223622), 16, 3, 1; (223644), 12, 3, 1; (223655), 12, 3, 1; (225897), 28, 5, 6; (227211), 14, 2, 1; (230946), 18, 2, 1; (234061), 32, 3, 1; (234289), 16, 3, 2; (237514), 20, 3, 1; (239826), 26, 3, 1; (241624), 40, 4, 2; (241750), 12, 2, 1; (241955), 20, 2, 1; (242276), 12, 3, 1; (242539), 24, 3, 2; (244166), 32, 4, 2; (244856), 10, 3, 1; (245102), 20, 3, 1; (245237), 18, 3, 1; (246886), 16, 3, 2; (247748), 16, 3, 1; (247778), 22, 4, 2; (247855), 6, 1, 0; (247939), 12, 3, 1; (247964), 34, 3, 2; (248112), 36, 4, 2; (248532), 26, 3, 1; (249105), 12, 3, 1; (249659), 10, 2, 1; (250396), 22, 3, 1; (251770), 24, 3, 1; (252953), 28, 4, 2; (257788), 30, 4, 2; (258824), 22, 3, 1; (260703), 12, 1, 0; (261392), 12, 3, 1; (265365), 20, 3, 1; (271078), 16, 3, 1; (277019), 18, 3, 1; (278915), 16, 3, 1; (285594), 24, 4, 2; (289250), 66, 8, 7; (293602), 32, 4, 2; (293660), 22, 4, 5; (295366), 14, 3, 1; (301964), 32, 3, 1; (310151), 20, 3, 1; (316855), 34, 5, 5; (316876), 48, 6, 8; (317398), 16, 3, 1; (318081), 28, 4, 2; (319081), 14, 3, 1; (322633), 18, 3, 1; (323523), 10, 1, 0; (326368), 16, 2, 1; (326741), 80, 9, 9; (326746), 20, 3, 1; (330765), 24, 3, 1; (331830), 22, 3, 1; (333425), 16, 3, 1; (337120), 20, 3, 1; (337557), 12, 2, 1; (341058), 14, 2, 1; (347503), 16, 2, 1; (348190), 6, 1, 0; (360019), 14, 2, 1; (363108), 12, 3, 1; (365421), 16, 3, 2; (368884), 24, 3, 2; (370701), 10, 2, 1; (374400), 16, 3, 1; (376504), 12, 3, 1; (380237), 14, 3, 1; (382454), 14, 1, 0; (382456), 48, 5, 2; (390482), 22, 3, 2; (422864), 26, 4, 2; (436319), 16, 2, 1; (445305), 26, 3, 1; (464644), 20, 3, 1; (470427), 24, 3, 2; (477912), 28, 4, 2; (480446), 10, 2, 1; (487693), 32, 4, 2; (496482), 16, 3, 2; (498005), 14, 2, 1; (504830), 18, 4, 2; (509830), 12, 2, 1; (518678), 14, 2, 1; *[26710, 1211, 3∗, 2020/07/30–2021/09/17]*

C53 NEOSSat

Observer C. Smith-Perez. Measurers D. D. Balam, D. W. E. Green, C. E. Spratt. 0.15-m reflector + CCD.

2016 AJ_{193}, 70, 1, 0; *[70, 1, 0∗, 2021/08/20–2021/08/21]*

C59 Yangwang-1

Observer Z. X. Wang. Measurer Q.-Z. Ye. 0.1-m $f/2$ refractor.

(433), 4, 2, 1; (285571), 4, 1, 0; *[8, 2, 0∗, 2021/07/06–2021/07/14]*

C73 Galaţi Observatory

Observers O. Tercu, G. Neagu, S. Nicov. 0.4-m $f/8$ Ritchey-Chrétien + CCD.

2018 LM_4, 6, 1, 0; (285571), 5, 1, 0; *[11, 2, 0∗, 2021/08/02]*

C77 Bernezzo Observatory

Observer A. Mantero. 0.25-m $f/4.0$ reflector + CCD.

2021 PW_4, 3, 1, 0; 2021 PU_9, 3, 1, 0; 2021 PE_{10}, 2, 1, 0; 2021 QA, 3, 1, 0; *[11, 4, 0∗, 2021/08/10–2021/08/17]*

C80 Don Astronomical Observatory, Rostov-on-Don

Observers E. Romas, V. Tupitsyn, N. Rudenko. Measurer E. Romas. 0.2-m $f/5$ Newtonian reflector + CCD.

(310), 3, 1, 0; (2662), 3, 1, 0; (4597), 3, 1, 0; (4637), 3, 1, 0; (8498), 3, 1, 0; (8670), 3, 1, 0; (9174), 3, 1, 0; (12299), 3, 1, 0; (13370), 3, 1, 0; (17610), 3, 1, 0; (23392), 3, 1, 0; (25040), 3, 1, 0; (39236), 3, 1, 0; (42938), 3, 1, 0; (43232), 3, 1, 0; (66663), 3, 1, 0; (87252), 3, 1, 0; (101452), 3, 1, 0; (101577), 3, 1, 0; (218028), 3, 1, 0; *[60, 20, 0∗, 2021/09/07]*

C82 Osservatorio Astronomico Nastro Verde, Sorrento

Observer N. Ruocco. 0.35-m $f/6.3$ Schmidt-Cassegrain + CCD, 0.35-m $f/6.3$ Schmidt + CCD.

2004 XJ_{29}, 3, 1, 0; 2008 CD_6, 6, 1, 0; 2021 PE_{10}, 2, 1, 0; 2021 PY_{40}, 6, 1, 0; 2021 QA, 2, 1, 0; 2021 QR_1, 2, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QB_3, 9, 1, 0; 2021 RW_4, 3, 1, 0; 2021 RC_{10}, 5, 1, 0; 2021 RU_{10}, 5, 1, 0; 2021 RG_{12}, 2, 1, 0; (790), 59, 1, 0; (248370), 6, 1, 0; *[113, 14, 0∗, 2021/08/14–2021/09/13]*

C94 MASTER-II Observatory, Tunka

Observers Y. Kechin, V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, A. Kuznetsov, O. Gress, D. Zimnukhov, S. Yazev, N. Budnev. 0.4-m $f/2.5$ reflector + CCD.

(299), 1, 1, 0; (7938), 2, 1, 0; *[3, 2, 0∗, 2021/05/13–2021/05/14]*

C95 SATINO Remote Observatory, Haute Provence

Observer J. Jahn. 0.60-m $f/3.2$ Newtonian reflector + CCD.

(180186), 6, 1, 0; (183548), 3, 1, 0; (184990), 7, 1, 0; (185716), 3, 1, 0; (185851), 3, 1, 0; (186844), 3, 1, 0; (187026), 3, 1, 0; (188174), 4, 1, 0; (189630), 3, 1, 0; (190166), 4, 1, 0; (192563), 3, 1, 0; (194126), 2, 1, 0; (199003), 2, 1, 0; (199801), 3, 1, 0; (203015), 2, 1, 0; (204131), 3, 1, 0; (205378), 3, 1, 0; (208565), 3, 1, 0; (214088), 5, 1, 0; (215167), 2, 1, 0; (216258), 2, 1, 0; (217430), 3, 1, 0; (218863), 3, 1, 0; (219021), 3, 1, 0; (223456), 3, 1, 0; (228502), 3, 1, 0; (230599), 3, 1, 0; (231134), 3, 1, 0; (231792), 2, 1, 0; (232368), 2, 1, 0; (234341), 3, 1, 0; (237551), 2, 1, 0; (238063), 3, 1, 0; (241596), 2, 1, 0; (243025), 3, 1, 0; (243147), 3, 1, 0; (244670), 4, 1, 0; (248926), 3, 1, 0; (249886), 2, 1, 0; (250577), 2, 1, 0; *[121, 40, 0∗, 2019/02/08–2020/10/18]*

D20 Zadko Observatory, Wallingup Plain

Observers T. Santana-Ros, B. Gendre. Measurer M. Micheli. 1.0-m reflector + CCD. (01)

Observer M. Todd. 1.0-m $f/4.0$ Cassegrain + CCD. (03)

{1} 2021 PG_5, 1, 1, 0; *[1, 1, 0∗, 2021/08/11]*

{3} 2014 QM_{560}, 3, 1, 0; *[3, 1, 0∗, 2013/03/22]*

D29 Purple Mountain Observatory, XuYi Station

Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu, Y. Xia, B. Mei. Measurers H. B. Zhao, B. Li, H. Lu, G. Zhaori, Z. J. Xu, B. L. H. Lu, H. J. Tan. 1.04-m $f/1.8$ Schmidt + CCD.

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(584260), 3, 1, 0; (584261), 2, 1, 0; (584268), 3, 1, 0; (584270), 3, 1, 0; (584275), 3, 1, 0; (584278), 3, 1, 0; (584286), 3, 1, 0; (584289), 2, 1, 0; (584293), 2, 1, 0; (584307), 3, 1, 0; (584315), 9, 3, 5; (584338), 3, 1, 0; (584342), 3, 1, 0; (584345), 6, 1, 0; (584346), 2, 1, 0; (584361), 2, 1, 0; (584367), 9, 3, 4; (584369), 5, 2, 2; (584400), 2, 1, 0; (584461), 2, 1, 0; (584468), 2, 1, 0; (584476), 4, 2, 3; (584480), 3, 1, 0; (584511), 5, 2, 25; (584537), 3, 1, 0; (584545), 3, 1, 0; (584550), 3, 1, 0; (584551), 3, 1, 0; (584564), 3, 1, 0; (584580), 2, 1, 0; (584593), 2, 1, 0; (584595), 6, 2, 25; (584608), 3, 1, 0; (584617), 3, 1, 0; (584628), 3, 1, 0; (584631), 3, 1, 0; (584639), 2, 1, 0; (584645), 3, 1, 0; (584654), 3, 1, 0; (584675), 2, 1, 0; (584677), 2, 1, 0; (584680), 3, 1, 0; (584681), 4, 2, 2; (584690), 2, 1, 0; (584699), 3, 1, 0; (584704), 3, 1, 0; (584707), 2, 1, 0; (584709), 8, 3, 13; (584761), 2, 1, 0; (584763), 2, 1, 0; (584785), 6, 2, 25; (584789), 5, 2, 4; (584815), 10, 3, 11; (584820), 2, 1, 0; (584836), 3, 1, 0; (584850), 6, 1, 0; (584851), 6, 2, 26; (584874), 8, 3, 26; (584875), 3, 1, 0; (584891), 2, 1, 0; (584897), 3, 1, 0; (584898), 3, 1, 0; (584913), 2, 1, 0; (584914), 3, 1, 0; (584923), 8, 3, 25; (584933), 2, 1, 0; (584934), 7, 3, 13; (584938), 3, 1, 0; (584940), 12, 4, 31; (584941), 3, 1, 0; (584966), 3, 1, 0; (584995), 5, 2, 27; (584999), 3, 1, 0; (585012), 5, 2, 25; (585017), 8, 3, 23; (585020), 11, 4, 31; (585025), 3, 1, 0; (585031), 5, 2, 26; (585044), 3, 1, 0; (585047), 3, 1, 0; (585049), 3, 1, 0; (585062), 3, 1, 0; (585067), 2, 1, 0; (585069), 3, 1, 0; (585073), 3, 1, 0; (585078), 3, 1, 0; (585082), 2, 1, 0; (585091), 5, 2, 3; (585092), 6, 2, 1; (585108), 7, 3, 7; (585111), 3, 1, 0; (585112), 3, 1, 0; (585122), 5, 2, 25; (585123), 2, 1, 0; (585140), 6, 2, 26; (585144), 3, 1, 0; (585151), 5, 2, 1; (585168), 3, 1, 0; (585171), 2, 1, 0; (585190), 6, 1, 0; (585194), 3, 1, 0; (585197), 8, 3, 27; (585200), 2, 1, 0; (585203), 3, 1, 0; (585215), 2, 1, 0; (585224), 3, 1, 0; (585235), 2, 1, 0; (585254), 9, 2, 5; (585262), 3, 1, 0; (585274), 5, 1, 0; (585288), 3, 1, 0; (585299), 3, 1, 0; (585333), 2, 1, 0; (585342), 2, 1, 0; (585349), 3, 1, 0; (585370), 3, 1, 0; (585371), 2, 1, 0; (585395), 2, 1, 0; (585406), 3, 1, 0; (585407), 3, 1, 0; (585476), 2, 1, 0; (585481), 2, 1, 0; (585491), 5, 2, 26; (585496), 9, 3, 10; (585500), 5, 2, 27; (585527), 3, 1, 0; (585528), 6, 3, 24; (585532), 5, 2, 23; (585534), 5, 2, 15; (585540), 8, 3, 11; (585543), 3, 1, 0; (585547), 3, 1, 0; (585619), 2, 1, 0; (585628), 3, 1, 0; (585643), 3, 1, 0; (585659), 3, 1, 0; (585682), 2, 1, 0; (585698), 2, 1, 0; (585768), 2, 1, 0; (585777), 2, 1, 0; (585792), 3, 1, 0; (585862), 3, 1, 0; (585884), 3, 1, 0; (585886), 2, 1, 0; (585890), 5, 2, 25; (585891), 2, 1, 0; (585912), 6, 2, 25; *[205330, 45544, 22*, 2013/09/02–2021/09/16]*

D35 Lulin Observatory

Observers Q.-z. Ye, H.-C. Lin, C.-S. Lin, C.-Y. Shih, C.-y. Shih. Measurer Q.-z. Ye. 0.41-m f/8.8 Ritchey-Chrétien + 2K×2K CCD + f/6.25 focal reducer, 0.41-m Ritchey-Chrétien + CCD + f/6.25 focal reducer.

2005 EW_{228}, 3, 1, 0; 2007 JK_{52} *, 3, 1, 0; *[6, 2, 1*, 2007/05/12–2007/08/06]*

E10 Siding Spring-Faulkes Telescope South

Observer P. Breitenstein. 2.0-m Ritchey-Chrétien + CCD. (19)

Observers R. Crawford, L. Lebofsky, M. Trueblood. Measurer R. Crawford. 2.0-m f/10 reflector + CCD. (21)

{19} 2021 QD_2, 12, 2, 1; 2021 QQ_2, 4, 1, 0; *[16, 2, 0*, 2021/08/28–2021/08/29]*

{21} 2021 NW_1, 3, 1, 0; *[3, 1, 0*, 2021/08/18]*

E12 Siding Spring Survey

Observers G. J. Garradd, R. H. McNaught, S. Larson, E. Beshore, E. Christensen, R. Hill, D. McLean, R. H. Mcnaught, R. McNaught, E. J. Christensen. Measurers E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught, C. M. Casey, E. J. Christensen, J. D. Ahern, E. Christensen. 0.5-m Uppsala Schmidt + CCD.

2000 WS_{19}, 4, 1, 0; 2002 QH_{138}, 3, 1, 0; 2004 RO_{301}, 4, 1, 0; 2004 SV_6, 4, 1, 0; 2005 NT_{133}, 4, 1, 0; 2008 KF_{49}, 4, 1, 0; 2008 LJ_{21}, 3, 1, 0; 2010 GY_{29}, 4, 1, 0; 2010 HL_{82}, 4, 1, 0; 2010 MQ_{109}, 4, 1, 0; 2010 TE_{173}, 4, 1, 0; 2011 SN_{334}, 3, 1, 0; 2012 PE_{58} *, 4, 1, 0; 2012 PK_{58} *, 8, 2, 21; 2012 PM_{58} *, 4, 1, 0; 2012 PP_{58} *, 4, 1, 0; 2012 QB_{72} *, 8, 2, 25; 2014 LA_{37}, 4, 1, 0; 2016 HC_{23}, 4, 1, 0; 2016 XE_{15}, 3, 1, 0; 2017 FL_{198}, 3, 1, 0; 2017 HK_{24}, 4, 1, 0; 2017 PE_{49}, 3, 1, 0; 2017 RB_{113}, 4, 1, 0; 2017 UL_{60}, 4, 1, 0; 2018 RL_{58}, 3, 1, 0; 2020 HR_{127}, 4, 1, 0; 2021 JG_{52}, 4, 1, 0; 2021 NQ_{17}, 3, 1, 0; 2021 OZ_1, 4, 1, 0; 2021 PL_{70}, 3, 1, 0; (548790), 1, 1, 0; (554988), 2, 1, 0; (567945), 4, 1, 0; (576110), 4, 1, 0; (579848), 4, 1, 0; (584182), 3, 1, 0; (584741), 3, 1, 0; (585036), 5, 1, 0; (585099), 4, 1, 0; (585479), 4, 1, 0; (585521), 4, 1, 0; (585666), 3, 1, 0; *[164, 43, 5*, 2004/06/09–2012/09/13]*

E23 Arcadia

Observer A. Hidas. 0.35-m f/1.9 reflector + CCD.

2004 XJ_{29}, 3, 1, 0; 2010 RJ_{53}, 6, 1, 0; 2013 TM_4, 3, 1, 0; 2017 RK_{15}, 3, 1, 0; 2021 NU_1, 4, 1, 0; 2021 PA_{17}, 3, 1, 0; 2021 QA, 3, 1, 0; 2021 QA_1, 3, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QK_5, 3, 1, 0; 2021 RA, 3, 1, 0; 2021 RN_1, 3, 1, 0; (5377), 3, 1, 0; (6812), 1, 1, 0; (8679), 3, 1, 0; (10114), 3, 1, 0; (12502), 3, 1, 0; (14772), 3, 1, 0; (16103), 3, 1, 0; (16138), 3, 1, 0; (16986), 1, 1, 0; (18710), 1, 1, 0; (18873), 1, 1, 0; (19780), 3, 1, 0; (20167), 3, 1, 0; (22114), 2, 1, 0; (22324), 3, 1, 0; (26999), 3, 1, 0; (33017), 3, 1, 0; (33172), 3, 1, 0; (33619), 3, 1, 0; (37643), 3, 1, 0; (38298), 3, 1, 0; (38396), 3, 1, 0; (41188), 3, 1, 0; (49845), 3, 1, 0; (60873), 3, 1, 0; (65382), 1, 1, 0; (67296), 1, 1, 0; (68000), 3, 1, 0; (68642), 3, 1, 0; (69266), 3, 1, 0; (73712), 3, 1, 0; (75306), 3, 1, 0; (79532), 3, 1, 0; (80152), 1, 1, 0; (86346), 3, 1, 0; (88187), 3, 1, 0; (96768), 3, 1, 0; (110994), 3, 1, 0; (129833), 3, 1, 0; (150545), 3, 1, 0; (161539), 3, 1, 0; (164460), 3, 1, 0; (165166), 3, 1, 0; *[154, 55, 0*, 2021/08/10–2021/09/11]*

E89 Geyserland Observatory, Pukehangi

Observer R. Carstens. 0.25-m f/4.6 Schmidt-Cassegrain + CCD, 0.25-m f/4.7 Schmidt-Cassegrain + CCD.

(1951), 6, 2, 23; (7889), 7, 2, 14; (12923), 8, 2, 26; (52750), 4, 1, 0; (66146), 4, 1, 0; (68063), 13, 3, 25; (86067), 9, 2, 25; (162186), 4, 1, 0; (163696), 4, 1, 0; *[59, 9, 0*, 2021/08/10–2021/09/05]*

E94 Possum Observatory, Gisborne

Observer J. Drummond. 0.41-m f/4.5 Newtonian reflector + CCD, 0.35-m f/10 Schmidt-Cassegrain + CCD.

2007 TP_{453}, 4, 1, 0; 2016 EQ_{166}, 4, 1, 0; 2017 RN_{136}, 4, 1, 0; 2021 NU_1, 4, 1, 0; 2021 PZ_{16}, 4, 1, 0; 2021 PE_{20}, 3, 1, 0; 2021 PF_{20}, 4, 1, 0; 2021 PN_{26}, 4, 1, 0; 2021 PY_{40}, 4, 1, 0; 2021 QK_5, 3, 1, 0; 2021 RA, 8, 1, 0; (5762), 4, 1, 0; (8643), 4, 1, 0; (19396), 4, 1, 0; (22575), 4, 1, 0; (26032), 4, 1, 0; (31285), 4, 1, 0; (35398), 4, 1, 0; (36207), 4, 1, 0; (48471), 8, 2, 2; (59974), 3, 1, 0; (65382), 4, 1, 0; (65954), 4, 1, 0; (68362), 4, 1, 0; (73347), 4, 1, 0; (75932), 4, 1, 0; (79034), 3, 1, 0; (97497), 4, 1, 0; (120765), 4, 1, 0; (140698), 4, 1, 0; (144442), 3, 1, 0; (210276), 4, 1, 0; (217624), 4, 1, 0; (243675), 3, 1, 0; (248370), 4, 1, 0; (301398), 3, 1, 0; (333075), 4, 1, 0; (398453), 4, 1, 0; (419846), 4, 1, 0; (429380), 3, 1, 0; (580201), 3, 1, 0; *[163, 41, 0*, 2021/08/10–2021/09/05]*

F51 Pan-STARRS 1, Haleakala

Observers J. Bulger, T. Lowe, A. Schultz, M. Willman, I. Smith, N. Primak, T. Goggia, S. Watters, J. Thiel, B. Gibson, S. Kahale, R. Anderson, K. Chambers, T. Dukes. Measurers K. Chambers, S. Chastel, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, M. Huber, C.-C. Lin, E. Magnier, Y. Ramanjooloo, R. Wainscoat, R. Weryk, H. Gao, E. Lilly, C. Waters, P.-S. 1. S. Consortium, Pan-STARRS 1 Science Consortium, B. Bolin, E. Schunova, L. Buzzi, J. Martin, J. Wood, T. Vorobjov, P. S. Consortium, C.-K. Chang, W.-P. Chen, W.-H. Ip, J. Jahn, R. Kracht, S. Deen, K.-J. Lo, H.-W. Lin, D. Ozirmak, M. Butun, F. Yildizhan, H. A. Kayihan, J. Jooste, D. Blane, C. Ayres, F. Hormuth, P. Mahajani. 1.8-m Ritchey-Chrétien + CCD, 1.8-m f/4.4 Ritchey-Chrétien + CCD.

1991 PN, 30, 8, 2271; 1992 SS_{27}, 12, 3, 16; 1992 TJ_2, 7, 2, 2; 1992 WQ_{10}, 12, 3, 25; 1993 BZ_9, 4, 1, 0; 1993 BC_{16}, 4, 1, 0; 1993 SZ_{16}, 15, 4, 28; 1993 UH_{10}, 4, 1, 0; 1993 VQ_6, 3, 1, 0; 1994 AX_5, 15, 4, 34; 1994 CU_4, 3, 1, 0; 1994 GJ_6, 3, 1, 0; 1994 GC_{12}, 18, 4, 10; 1994 ND_5, 4, 1, 0; 1994 RH_6, 24, 6, 34; 1994 RD_{30}, 4, 1, 0; 1994 UX_8, 10, 3, 2034; 1994 UF_{10}, 7, 2, 26; 1994 UG_{13}, 3, 1, 0; 1994 UJ_{13}, 4, 1, 0; 1994 XL_6, 10, 3, 9; 1995 BF_{15}, 11, 3, 23; 1995 GZ_3, 4, 1, 0; 1995 KB, 7, 2, 5; 1995 MJ_5, 3, 1, 0; 1995 QG_{12}, 3, 1, 0; 1995 QJ_{17}, 10, 3, 31; 1995 SL_7, 12, 3, 28; 1995 SZ_{12}, 27, 7, 32; 1995 SB_{17}, 4, 1, 0; 1995 SF_{23}, 8, 2, 24; 1995 SU_{31}, 7, 2, 35; 1995 SH_{41}, 4, 1, 0; 1995 SH_{42}, 3, 1, 0; 1995 SO_{42}, 13, 3, 4; 1995 SA_{43}, 20, 5, 31; 1995 SP_{43}, 4, 1, 0; 1995 SF_{47}, 27, 7, 32; 1995 SV_{55}, 3, 1, 0; 1995 SE_{56}, 34, 9, 3602; 1995 ST_{63}, 4, 1, 0; 1995 SB_{65}, 14, 4, 29; 1995 SS_{67}, 8, 2, 5; 1995 SO_{69}, 11, 3, 28; 1995 SU_{69}, 4, 1, 0; 1995 SQ_{70}, 3, 1, 0; 1995 SX_{80}, 19, 5, 40; 1995 SF_{86}, 4, 1, 0; 1995 SK_{88}, 8, 2, 10; 1995 SM_{88}, 12, 3, 29; 1995 SP_{90}, 23, 5, 24; 1995 TH_4, 13, 4, 24; 1995 UD_{17}, 15, 4, 12; 1995 UU_{26}, 14, 4, 15; 1995 UO_{28}, 8, 2, 5; 1995 UA_{29}, 32, 7, 28; 1995 US_{33}, 13, 4, 40; 1995 UL_{35}, 21, 6, 28; 1995 UP_{38}, 25, 6, 25; 1995 UJ_{67}, 4, 1, 0; 1995 UN_{67}, 3, 1, 0; 1995 UO_{67}, 3, 1, 0; 1995 UW_{67}, 13, 3, 23; 1995 UZ_{68}, 7, 2, 2; 1995 UF_{69}, 3, 1, 0; 1995 UF_{72}, 4, 1, 0; 1995 UT_{72}, 7, 2, 19; 1995 UW_{72}, 7, 2, 2; 1995 UP_{76}, 16, 4, 1460; 1995 UO_{79}, 15, 4, 28; 1995 UE_{84}, 7, 2, 9; 1995 VG_3, 3, 1, 0; 1995 VP_6, 12, 3, 5; 1995 VE_7, 12, 3, 19; 1995 VM_{17}, 3, 1, 0; 1995 WF_4, 4, 1, 0; 1995 WH_{11}, 4, 1, 0; 1995 WA_{15}, 7, 2, 27; 1995 WP_{18}, 15, 5, 2809; 1995 WG_{19}, 7, 2, 5; 1995 WK_{25}, 3, 1, 0; 1995 WP_{44}, 4, 1, 0; 1995 WT_{44}, 4, 1, 0; 1995 XL_4, 4, 1, 0; 1996 AK_{11}, 23, 6, 26; 1996 AJ_{12}, 4, 1, 0; 1996 AJ_{19}, 3, 1, 0; 1996 BZ_{18}, 3, 1, 0; 1996 BA_{19}, 3, 1, 0; 1996 CK_3, 6, 2, 5; 1996 CL_6, 14, 4, 29; 1996 CS_9, 8, 2, 4; 1996 JN_{12}, 4, 1, 0; 1996 JW_{15}, 17, 4, 28; 1996 RG_6, 4, 1, 0; 1996 RH_{11}, 7, 2, 24; 1996 RO_{20}, 3, 1, 0; 1996 RP_{20}, 15, 4, 24; 1996 RR_{22}, 4, 1, 0; 1996 RK_{23}, 24, 6, 29; 1996 RG_{34}, 4, 1, 0; 1996 TG_{24}, 7, 2, 6; 1996 TF_{28},

8, 2, 8; 1996 TG_{30}, 13, 4, 12; 1996 TC_{32}, 10, 3, 16; 1996 VU_{19}, 4, 1, 0; 1996 VT_{24}, 6, 2, 21; 1996 VX_{28}, 4, 1, 0; 1996 VC_{29}, 8, 2, 20; 1996 VM_{37}, 26, 6, 22; 1996 WY_3, 3, 1, 0; 1996 WZ_3, 3, 1, 0; 1996 XT_7, 3, 1, 0; 1996 XT_{12}, 7, 2, 5; 1996 XM_{17}, 33, 9, 3625; 1996 XM_{36}, 13, 4, 20; 1997 CH, 4, 1, 0; 1997 EL_{60}, 8, 2, 16; 1997 JX_2, 15, 4, 24; 1997 JN_{19}, 10, 3, 28; 1997 KZ_2, 4, 1, 0; 1997 MN, 3, 1, 0; 1997 NT_3, 18, 5, 28; 1997 ND_{12}, 10, 2, 14; 1997 SV_7, 15, 3, 32; 1997 SB_{17}, 3, 1, 0; 1997 SF_{26}, 23, 6, 24; 1997 SX_{35}, 4, 1, 0; 1997 TD_3, 6, 2, 9; 1997 TF_6, 15, 4, 23; 1997 TL_8, 4, 1, 0; 1997 UK_6, 8, 2, 25; 1997 UN_{13}, 4, 1, 0; 1997 WJ_6, 11, 3, 27; 1997 WK_{10}, 11, 3, 26; 1997 WX_{58}, 4, 1, 0; 1998 AU_2, 7, 2, 4; 1998 AZ_{11}, 4, 1, 0; 1998 BM_{18}, 15, 4, 18; 1998 BV_{23}, 4, 1, 0; 1998 BE_{29}, 7, 2, 10; 1998 BH_{31}, 3, 1, 0; 1998 BN_{50}, 6, 2, 18; 1998 EU_{22}, 4, 1, 0; 1998 HJ_{11}, 4, 1, 0; 1998 HE_{15}, 3, 1, 0; 1998 HE_{16}, 3, 1, 0; 1998 HH_{159}, 3, 1, 0; 1998 HJ_{159}, 11, 3, 23; 1998 KF_{11}, 6, 2, 16; 1998 ML_5, 4, 1, 0; 1998 MV_{49}, 3, 1, 0; 1998 OL_4, 7, 2, 4; 1998 QF_{28}, 3, 1, 0; 1998 QN_{56}, 12, 3, 26; 1998 QA_{112}, 12, 3, 15; 1998 QF_{112}, 4, 1, 0; 1998 QL_{112}, 3, 1, 0; 1998 QN_{112}, 14, 4, 32; 1998 RL_{14}, 18, 5, 32; 1998 RU_{81}, 14, 4, 26; 1998 SM, 9, 3, 31; 1998 SL_{36}, 14, 3, 7; 1998 SB_{39}, 4, 1, 0; 1998 SG_{177}, 4, 1, 0; 1998 ST_{177}, 4, 1, 0; 1998 SX_{177}, 4, 1, 0; 1998 SC_{178}, 4, 1, 0; 1998 SV_{178}, 6, 2, 22; 1998 SE_{179}, 11, 3, 23; 1998 SH_{179}, 12, 3, 16; 1998 SP_{179}, 4, 1, 0; 1998 SJ_{180}, 7, 2, 6; 1998 SL_{180}, 12, 3, 24; 1998 SZ_{180}, 8, 2, 6; 1998 SV_{181}, 3, 1, 0; 1998 SY_{181}, 25, 7, 3252; 1998 TC_{24}, 9, 2, 537; 1998 TR_{29}, 4, 1, 0; 1998 UL_{51}, 10, 3, 27; 1998 UR_{51}, 14, 4, 28; 1998 VE_{41}, 15, 4, 23; 1998 VH_{57}, 4, 1, 0; 1998 WE_{35}, 4, 1, 0; 1998 WD_{43}, 4, 1, 0; 1998 WL_{45}, 11, 3, 528; 1998 WM_{46}, 7, 2, 6; 1998 WP_{46}, 4, 1, 0; 1998 WX_{46}, 3, 1, 0; 1999 BW_{27}, 16, 3, 23; 1999 BT_{35}, 10, 3, 9; 1999 CM_{129}, 4, 1, 0; 1999 CS_{130}, 12, 3, 5; 1999 CR_{135}, 10, 3, 27; 1999 CP_{140}, 14, 4, 16; 1999 CG_{142}, 4, 1, 0; 1999 CB_{144}, 16, 4, 971; 1999 EM_{15}, 4, 1, 0; 1999 FK_{65}, 8, 2, 801; 1999 FX_{68}, 16, 4, 16; 1999 FD_{69}, 7, 2, 12; 1999 FL_{69}, 6, 2, 28; 1999 FO_{69}, 7, 2, 3; 1999 FB_{71}, 20, 5, 24; 1999 FW_{75}, 7, 2, 5; 1999 FQ_{81}, 14, 3, 30; 1999 FU_{81}, 12, 3, 24; 1999 FS_{83}, 4, 1, 0; 1999 FL_{88}, 4, 1, 0; 1999 FZ_{96}, 22, 6, 28; 1999 FC_{98}, 7, 2, 29; 1999 FF_{98}, 7, 2, 12; 1999 FE_{99}, 3, 1, 0; 1999 FG_{99}, 4, 1, 0; 1999 FN_{99}, 8, 2, 14; 1999 FO_{99}, 6, 2, 11; 1999 FB_{100}, 4, 1, 0; 1999 FD_{100}, 8, 2, 17; 1999 FF_{100}, 11, 3, 24; 1999 FW_{100}, 7, 2, 5; 1999 FZ_{100}, 4, 1, 0; 1999 HJ_{13}, 3, 1, 0; 1999 HO_{13}, 3, 1, 0; 1999 OW_5, 8, 2, 11; 1999 OY_5, 4, 1, 0; 1999 PQ_5, 4, 1, 0; 1999 PD_9, 22, 6, 28; 1999 PO_9, 4, 1, 0; 1999 PP_9, 19, 5, 27; 1999 QS_3, 6, 2, 23; 1999 RV_4, 15, 4, 16; 1999 RQ_8, 16, 5, 28; 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F52 Pan-STARRS 2, Haleakala

Observers J. Bulger, T. Dukes, T. Lowe, A. Schultz, M. Willman, I. Smith, K. Chambers, B. Gibson, T. Goggia, N. Primak, R. Anderson. Measurers K. Chambers, S. Chastel, T. de Boer, L. Denneau, J. Fairlamb, H. Flewelling, M. Huber, C.-C. Lin, E. Magnier, Y. Ramanjooloo, R. Wainscoat, R. Weryk, H. Gao, C. Waters, E. Lilly, E. Schunova. 1.8-m Ritchey-Chrétien + CCD.

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(584177), 7, 1, 0; (584182), 3, 1, 0; (584189), 4, 1, 0; (584191), 4, 1, 0; (584192), 12, 3, 16; (584198), 4, 1, 0; (584199), 3, 1, 0; (584200), 4, 1, 0; (584201), 3, 1, 0; (584203), 3, 1, 0; (584204), 4, 1, 0; (584215), 7, 2, 10; (584219), 3, 1, 0; (584221), 7, 2, 1; (584222), 11, 2, 12; (584223), 4, 1, 0; (584229), 4, 1, 0; (584234), 3, 1, 0; (584235), 4, 1, 0; (584236), 3, 1, 0; (584237), 7, 2, 11; (584241), 4, 1, 0; (584243), 4, 1, 0; (584247), 4, 1, 0; (584252), 4, 1, 0; (584254), 4, 1, 0; (584255), 4, 1, 0; (584256), 3, 1, 0; (584264), 3, 1, 0; (584267), 4, 1, 0; (584268), 8, 2, 13; (584269), 3, 1, 0; (584271), 4, 1, 0; (584275), 4, 1, 0; (584277), 7, 1, 0; (584278), 4, 1, 0; (584280), 8, 1, 0; (584282), 8, 2, 14; (584287), 4, 1, 0; (584288), 4, 1, 0; (584289), 4, 1, 0; (584291), 3, 1, 0; (584292), 3, 1, 0; (584293), 7, 2, 1; (584294), 6, 2, 10; (584298), 3, 1, 0; (584304), 3, 1, 0; (584305), 3, 1, 0; (584306), 4, 1, 0; (584307), 3, 1, 0; (584311), 11, 2, 22; (584314), 3, 1, 0; (584315), 4, 1, 0; (584318), 3, 1, 0; (584320), 3, 1, 0; (584327), 7, 2, 10; (584330), 4, 1, 0; (584334), 4, 1, 0; (584335), 4, 1, 0; (584336), 3, 1, 0; (584337), 3, 1, 0; (584341), 4, 1, 0; (584346), 4, 1, 0; (584347), 16, 2, 24; (584348), 4, 1, 0; (584357), 3, 1, 0; (584361), 7, 1, 0; (584367), 4, 1, 0; (584368), 3, 1, 0; (584369), 7, 2, 12; (584381), 6, 2, 16; (584382), 4, 1, 0; (584404), 4, 1, 0; (584415), 4, 1, 0; (584435), 4, 1, 0; (584459), 3, 1, 0; (584460), 7, 2, 12; (584461), 4, 1, 0; (584468), 3, 1, 0; (584471), 3, 1, 0; (584475), 4, 1, 0; (584480), 7, 2, 14; (584496), 8, 2, 8; (584511), 3, 1, 0; (584518), 4, 1, 0; (584526), 4, 1, 0; (584543), 3, 1, 0; (584544), 4, 1, 0; (584547), 7, 2, 8; (584558), 4, 1, 0; (584565), 4, 1, 0; (584580), 8, 1, 0; (584585), 3, 1, 0; (584589), 4, 1, 0; (584593), 3, 1, 0; (584604), 10, 2, 763; (584608), 4, 1, 0; (584613), 7, 2, 967; (584614), 10, 3, 13; (584618), 7, 2, 9; (584622), 3, 1, 0; (584627), 4, 1, 0; (584628), 3, 1, 0; (584631), 4, 1, 0; (584645), 3, 1, 0; 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F65 Haleakala-Faulkes Telescope North

Observers M. Dahlhaus, D. Bloom, I. Welzel, L. Belli, P. Breitenstein. 2.0-m Ritchey-Chrétien + CCD. (02)

Observers J. D. Armstrong, E. J. Guarin, H. F. Suzuki, K. H. Taogoshi, J. H. Cocca, L. J. Shin. 2.0-m f/10 reflector + CCD. (21)

Observers R. Crawford, L. Lebofsky, M. Trueblood, D. Bell. Measurers R. Crawford, D. Bell. 2.0-m f/10 reflector + CCD. (23)

{21} 2021 RR_5, 4, 1, 0; 2021 RK_{17}, 4, 1, 0; *[8, 2, 0*, 2021/09/09–2021/09/10]*

{23} 2021 KG_{10}, 4, 1, 0; 2021 PC_7, 6, 1, 0; *[10, 2, 0*, 2021/08/18]*

{2} 2021 PX_{42}, 3, 1, 0; *[3, 1, 0*, 2019/01/13]*

G01 Universitaetssternwarte Oldenburg

Observer T. Hoffmann. 0.4-m f/8 Ritchey-Chrétien + CCD.

2019 UD_4, 16, 2, 1; 2021 MG_1, 8, 1, 0; 2021 NT_3, 4, 1, 0; 2021 PT, 12, 2, 1; 2021 PH_2, 5, 1, 0; (1653), 4, 1, 0; *[49, 6, 0*, 2021/08/10–2021/08/11]*

G02 KYSUCE Observatory, Kysucke Nove Mesto

Observer M. Urbanik. 0.40-m f/6.8 reflector + CCD, 0.40-m f/4.5 Corrected Dall-Kirkham + CCD, 0.40-m f/4.5 reflector + CCD.

2001 EC, 6, 2, 3; 2008 CD_6, 3, 1, 0; 2010 RJ_{53}, 3, 1, 0; 2011 LD_{20}, 12, 4, 29; 2012 US_{136}, 3, 1, 0; 2019 UD_4, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 QB_3, 3, 1, 0; 2021 RA, 3, 1, 0; 2021 RH, 3, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RG_2, 6, 2, 1; 2021 RH_2, 3, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RS_5, 3, 1, 0; 2021 RX_5, 3, 1, 0; 2021 RB_6, 3, 1, 0; 2021 RG_6, 3, 1, 0; 2021 RJ_6, 3, 1, 0; 2021 RU_7, 5, 2, 1; 2021 RA_{10}, 3, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RK_{10}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RJ_{14}, 3, 1, 0; 2021 RK_{14}, 3, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RL_{15}, 6, 2, 1; 2021 RO_{16}, 3, 1, 0; (1943), 6, 2, 13; (2060), 3, 1, 0; (3423), 3, 1, 0; (16960), 3, 1, 0; (68063), 6, 2, 3; (74884), 3, 1, 0; (85709), 6, 2, 6; (86878), 3, 1, 0; (87309), 3, 1, 0; (94107), 3, 1, 0; (118449), 3, 1, 0; (136199), 3, 1, 0; (159857), 3, 1, 0; (234865), 3, 1, 0; (248370), 3, 1, 0; (248378), 3, 1, 0; (251324), 3, 1, 0; (283460), 15, 5, 28; (285571), 3, 1, 0; (326732), 3, 1, 0; (329669), 3, 1, 0; (353938), 9, 3, 28; (395093), 3, 1, 0; (434431), 6, 2, 14; *[209, 53, 0*, 2021/08/09–2021/09/15]*

G03 Capricornus Observatory, Csokako

Observer T. Maroti. 0.25-m f/4.8 reflector + CCD.

2014 OF_{61}, 3, 1, 0; 2016 TN_{31}, 3, 1, 0; 2017 QM_{92}, 6, 2, 2; 2017 RW_{13}, 3, 1, 0; 2017 SU_{81}, 3, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RD_{16}, 2, 1, 0; (2416), 3, 1, 0; (4361), 6, 2, 1; (8291), 3, 1, 0; (10906), 3, 1, 0; (11285), 6, 2, 1; (11502), 3, 1, 0; (11860), 3, 1, 0; (12641), 3, 1, 0; (13157), 6, 2, 1; (17434), 3, 1, 0; (18238), 3, 1, 0; (20557), 3, 1, 0; (20967), 3, 1, 0; (23388), 3, 1, 0; (23414), 3, 1, 0; (24537), 3, 1, 0; (26394), 3, 1, 0; (28443), 3, 1, 0; (34185), 3, 1, 0; (35224), 3, 1, 0; (40233), 3, 1, 0; (41121), 6, 2, 2; (45505), 3, 1, 0; (48780), 3, 1, 0; (59110), 6, 2, 2; (60747), 3, 1, 0; (63520), 6, 2, 1; (64173), 3, 1, 0; (72798), 6, 2, 2; (80815), 3, 1, 0; (82384), 3, 1, 0; (88383), 3, 1, 0; (89796), 6, 2, 1; (96620), 3, 1, 0; (98702), 3, 1, 0; (100855), 3, 1, 0; (102423), 3, 1, 0; (103167), 3, 1, 0; (107677), 3, 1, 0; (111976), 3, 1, 0; (118728), 3, 1, 0; (133349), 3, 1, 0; (138990), 3, 1, 0; (144624), 3, 1, 0; (144678), 3, 1, 0; (148321), 3, 1, 0; (151323), 3, 1, 0; (152849), 3, 1, 0; (154082), 6, 2, 1; (156391), 3, 1, 0; (156533), 3, 1, 0; (157308), 6, 2, 2; (160291), 3, 1, 0; (160737), 3, 1, 0; (162133), 3, 1, 0; (162703), 3, 1, 0; (162808), 3, 1, 0; (166969), 3, 1, 0; (167016), 3, 1, 0; (169849), 3, 1, 0; (170513), 3, 1, 0; (171321), 3, 1, 0; (175413), 3, 1, 0; (183626), 6, 2, 1; (187131), 3, 1, 0; (192410), 3, 1, 0; (205808), 3, 1, 0; (216606), 3, 1, 0; (232555), 3, 1, 0; (236437), 3, 1, 0; (249456), 6, 2, 1; (250712), 3, 1, 0; (253253), 3, 1, 0; (268494), 3, 1, 0; (275123), 3, 1, 0; (282133), 3, 1, 0; (286088), 3, 1, 0; (286195), 3, 1, 0; (290378), 3, 1, 0; (298817), 3, 1, 0; (308423), 3, 1, 0; (312720), 3, 1, 0; (314439), 3, 1, 0; (332574), 3, 1, 0; (332929), 3, 1, 0; (339464), 3, 1, 0; (356928), 3, 1, 0; (365525), 3, 1, 0; (365913), 3, 1, 0; (368267), 3, 1, 0; (378312), 3, 1, 0; (384836), 3, 1, 0; (426709), 3, 1, 0; (501227), 3, 1, 0; (533971), 3, 1, 0; (570158), 3, 1, 0; (574183), 3, 1, 0; *[350, 104, 0*, 2021/09/02–2021/09/14]*

G04 Schuelerlabor Astronomie St. 7, Wuppertal

Observers P. von Scheven, B. Koch. Measurer P. von Scheven. 0.51-m f/6.7 Corrected Dall-Kirkham + CCD.

2008 CD_6, 3, 1, 0; *[3, 1, 0*, 2021/09/08]*

G14 Novaloop Observatory, Mougins

Observer G. Attard. 0.28-m f/1.9 reflector + CCD.

2010 VB_{198}, 6, 1, 0; 2011 LD_{20}, 3, 1, 0; (134), 6, 1, 0; (430), 3, 1, 0; (700), 3, 1, 0; (796), 3, 1, 0; (1159), 6, 1, 0; (1251), 3, 1, 0; (1518), 3, 1, 0; (1560), 3, 1, 0; (1985), 3, 1, 0; (2116), 3, 1, 0; (2219), 3, 1, 0; (2222), 3, 1, 0; (2372), 3, 1, 0; (2449), 3, 1, 0; (2780), 6, 1, 0; (3168), 3, 1, 0; (4354), 6, 1, 0; (4382), 3, 1, 0; (4502), 3, 1, 0; (4974), 3, 1, 0; (5866), 3, 1, 0; (6039), 3, 1, 0; (6141), 6, 1, 0; (6169), 6, 1, 0; (6503), 3, 1, 0; (7116), 3, 1, 0; (7196), 3, 1, 0; (7838), 6, 1, 0; (7910), 3, 1, 0; (8228), 3, 1, 0; (8254), 6, 1, 0; (9157), 3, 1, 0; (10344), 3, 1, 0; (10389), 3, 1, 0; (10443), 6, 1, 0; (10525), 3, 1, 0; (10823), 3, 1, 0; (11584), 6, 1, 0; (12299), 3, 1, 0; (12429), 3, 1, 0; (12603), 6, 1, 0; (12645), 3, 1, 0; (12887), 3, 1, 0; (12963), 6, 1, 0; (13099), 3, 1, 0; (14391), 3, 1, 0; (14745), 3, 1, 0; (15950), 3, 1, 0; (16641), 3, 1, 0; (16769), 6, 1, 0; (17383), 6, 1, 0; (17468), 6, 1, 0; (17610), 3, 1, 0; (18176), 3, 1, 0; (18845), 6, 1, 0; (18903), 3, 1, 0; (19170), 3, 1, 0; (20179), 6, 1, 0; (20466), 3, 1, 0; (20771), 3, 1, 0; (20777), 6, 1, 0; (21035), 3, 1, 0; (22728), 6, 1, 0; (22805), 3, 1, 0; (22879), 3, 1, 0; (22941), 3, 1, 0; (23492), 6, 1, 0; (23908), 6, 1, 0; (25338), 6, 1, 0; (25390), 6, 1, 0; (25782), 3, 1, 0; (26164), 3, 1, 0; (26234), 6, 1, 0; (27082), 6, 1, 0; (29609), 3, 1, 0; (30118), 3, 1, 0; (31667), 6, 1, 0; (32158), 3, 1, 0; (34837), 6, 1, 0; (38057), 6, 1, 0; (38230), 3, 1, 0; (39606), 3, 1, 0; (39891), 6, 1, 0; (40156), 3, 1, 0; (40350), 6, 1, 0; (41709), 3, 1, 0; (43645), 6, 1, 0; (44286), 3, 1, 0; (45315), 6, 1, 0; (45864), 3, 1, 0; (47386), 6, 1, 0; (47461), 3, 1, 0; (54772), 6, 1, 0; (55937), 3, 1, 0; (56006), 6, 1, 0; (56303), 3, 1, 0; (58510), 6, 1, 0; (59649), 3, 1, 0; (59748), 6, 1, 0; (61113), 3, 1, 0; (61676), 3, 1, 0; (61952), 3, 1, 0; (62694), 6, 1, 0; (62703), 9, 2, 31; (64903), 3, 1, 0; (66745), 6, 1, 0; (67110), 6, 1, 0; (68178), 3, 1, 0; (68706), 3, 1, 0; (68878), 6, 1, 0; (69898), 3, 1, 0; (70297), 6, 1, 0; (70377), 3, 1, 0; (70419), 6, 1, 0; (70967), 6, 1, 0; (73802), 3, 1, 0; (74153), 6, 1, 0; (76806), 3, 1, 0; (79551), 6, 1, 0; (80666), 3, 1, 0; (82005), 3, 1, 0; (84054), 3, 1, 0; (84207), 6, 1, 0; (85105), 3, 1, 0; (85716), 3, 1, 0; (86385), 6, 1, 0; (88155), 3, 1, 0; (91394), 6, 1, 0; (91487), 6, 1, 0; (92353), 6, 1, 0; (92907), 6, 1, 0; (93105), 3, 1, 0; (93586), 3, 1, 0; (93809), 6, 1, 0; (98248), 6, 1, 0; (101967), 6, 1, 0; (102063), 6, 1, 0; (105747), 3, 1, 0; (106541), 6, 1, 0; (106671), 6, 1, 0; (113695), 3, 1, 0; (114386), 3, 1, 0; (115008), 6, 1, 0; (116221), 9, 2, 10; (118411), 6, 1, 0; (121224), 6, 1, 0; (121348), 3, 1, 0; (121716), 3, 1, 0; (122384), 3, 1, 0; (124412), 3, 1, 0; (125034), 6, 1, 0; (126701), 3, 1, 0; (128314), 3, 1, 0; (130082), 6, 1, 0; (133227), 3, 1, 0; (147687), 3, 1, 0; (147793), 6, 1, 0; (149161), 6, 1, 0; (153650), 3, 1, 0; (154638), 3, 1, 0; (157844), 3, 1, 0; (163085), 3, 1, 0; (164547), 3, 1, 0; (167693), 6, 1, 0; (188532), 9, 2, 10; (189059), 3, 1, 0; (190029), 6, 1, 0; (190637), 6, 1, 0; (192659), 3, 1, 0; (193180), 3, 1, 0; (199130), 6, 1, 0; (204239), 3, 1, 0; (219525), 3, 1, 0; (228578), 3, 1, 0; (235782), 3, 1, 0; (240780), 3, 1, 0; (247760), 6, 1, 0; (248061), 6, 1, 0; (248476), 6, 1, 0; (249807), 3, 1, 0; (250517), 6, 1, 0; (255421), 3, 1, 0; (285894), 6, 1, 0; (302174), 6, 1, 0; (307800), 6, 1, 0; (311138), 6, 1, 0; (313046), 6, 1, 0; (313918), 6, 1, 0; (326303), 3, 1, 0; (327087), 6, 1, 0; (331811), 6, 1, 0; (331917), 3, 1, 0; (333464), 3, 1, 0; (363041), 3, 1, 0; (367193), 3, 1, 0; (377379),

6, 1, 0; (382897), 6, 1, 0; (387542), 6, 1, 0; (390542), 6, 1, 0; (423586), 3, 1, 0; (430784), 6, 1, 0; (454748), 3, 1, 0; (464753), 6, 1, 0; (474913), 3, 1, 0; (475111), 6, 1, 0; (573142), 3, 1, 0; *[909, 208, 0*, 2021/08/11–2021/09/13]*

G15 Magroforte Observatory, Alessandria

Observer A. De Pieri. 0.25-m $f/6.7$ Schmidt-Cassegrain + CCD.

2021 QB_3, 3, 1, 0; 2021 QK_3, 2, 1, 0; 2021 QN_3, 3, 1, 0; 2021 RB, 2, 1, 0; 2021 RC, 3, 1, 0; 2021 RA_1, 2, 1, 0; 2021 RN_1, 2, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RQ_3, 3, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RA_8, 2, 1, 0; 2021 RA_{10}, 3, 1, 0; (911), 6, 2, 3; (1031), 6, 2, 3; (1177), 6, 2, 3; (1222), 6, 2, 3; (1712), 6, 2, 3; (1943), 6, 2, 3; *[70, 19, 0*, 2021/08/27–2021/09/11]*

G17 BAS Observatory, Scandicci

Observer L. Grazzini. 0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer.

2005 OG_3, 7, 2, 6; 2019 NC_1, 9, 3, 5; 2019 UD_4, 6, 2, 2; 2021 LH_9, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 PS_2, 3, 1, 0; 2021 QA, 3, 1, 0; (86878), 6, 2, 9; (283460), 6, 2, 2; *[46, 9, 0*, 2021/08/11–2021/08/21]*

G18 ALMO Observatory, Padulle

Observers A. Valvasori, E. Guido. Measurer A. Valvasori. 0.30-m $f/4$ reflector + CCD.

(248370), 2, 1, 0; *[2, 1, 0*, 2021/09/05]*

G23 Vulpecula Observatory, Budapest

Observer Z. Banfalvy. 0.15-m refractor + CCD.

(186), 3, 1, 0; *[3, 1, 0*, 2021/09/11–2021/09/12]*

G26 Fushan Observatory, Mt Shaohua

Observer W. Pei. 0.28-m $f/2$ Schmidt-Cassegrain + CCD.

(134), 3, 1, 0; (328), 3, 1, 0; (385), 3, 1, 0; (939), 2, 1, 0; *[11, 4, 0*, 2021/09/07–2021/09/10]*

G27 Fabra Observatory, Montsec

Observers J. Nuñez, L. Canals, P. Azorin, M. Merino, R. Lopez-Morcillo, D. del Se, J. L. Tous, D. del Ser, J. L. Tou. Measurer J. Nuñez. 0.50-m $f/0.96$ Baker-Nunn + CCD.

(12), 4, 1, 0; (447), 4, 1, 0; (1307), 8, 1, 0; (1493), 3, 1, 0; (1635), 2, 1, 0; (1667), 4, 1, 0; (1965), 3, 1, 0; (2461), 4, 1, 0; (2586), 4, 1, 0; (2678), 4, 1, 0; (4351), 4, 1, 0; (4685), 4, 1, 0; (6656), 4, 1, 0; (8574), 4, 1, 0; (9570), 4, 1, 0; (11136), 3, 1, 0; (14668), 4, 1, 0; (28013), 4, 1, 0; *[71, 18, 0*, 2018/12/07–2019/01/04]*

G33 Wickede

Observer G. Neue. 0.27-m Schmidt-Cassegrain + CCD.

2002 RO_{137}, 5, 1, 0; 2005 QN_{11}, 6, 1, 0; 2011 UC_{292}, 8, 1, 0; 2014 HO_{129}, 6, 1, 0; 2019 NC_1, 6, 1, 0; 2019 UD_4, 5, 1, 0; 2021 LN_{15}, 12, 2, 4; (904), 6, 1, 0; (1943), 6, 1, 0; (6297), 6, 1, 0; (29220), 2, 1, 0; (68063), 12, 2, 35; (74987), 2, 1, 0; (80000), 2, 1, 0; (105559), 5, 1, 0; (326732), 6, 1, 0; (353938), 14, 2, 16; (373563), 2, 1, 0; *[111, 18, 0*, 2021/08/14–2021/09/18]*

G34 Oberfrauendorf

Observer T. Felber. 0.35-m $f/6.3$ Schmidt-Cassegrain + CCD.

2010 RJ_{53}, 6, 1, 0; 2019 UD_4, 5, 1, 0; 2020 PL_2, 3, 1, 0; 2021 PG_5, 11, 2, 2; 2021 PE_{10}, 3, 1, 0; 2021 PY_{40}, 6, 1, 0; 2021 QA, 3, 1, 0; 2021 RP_4, 4, 1, 0; 2021 RU_7, 5, 1, 0; 2021 RJ_{14}, 3, 1, 0; 2021 RK_{14}, 6, 1, 0; 2021 RL_{14}, 2, 1, 0; 2021 RL_{15}, 3, 1, 0; (3219), 4, 1, 0; (20658), 3, 1, 0; (38841), 3, 1, 0; (70134), 3, 1, 0; *[73, 17, 0*, 2021/08/12–2021/09/14]*

G36 Calar Alto-CASADO

Observers S. Mottola, S. Hellmich, G. Proffe, O. Tiefenbacher. Measurers G. Hahn, S. Hellmich, S. Mottola, G. Proffe, L. Hafemeister, O. Tiefenbacher. 1.23-m $f/0.13$ reflector + CCD, 1.23-m $f/8$ reflector + CCD.

2006 WM_{235}, 10, 2, 3; 2008 AS_{17}, 7, 1, 0; 2008 SB_{352}, 4, 1, 0; 2011 UK_{475}, 14, 3, 2; 2011 US_{476}, 5, 1, 0; 2012 QF_{71}, 8, 1, 0; 2015 AJ_{243}, 4, 1, 0; 2015 LV_{56}, 3, 1, 0; 2015 MO_{186}, 11, 2, 1; 2016 PW_{176}, 3, 1, 0; 2016 QE_{134}, 6, 1, 0; 2016 TH_{172}, 4, 1, 0; 2017 FT_{191}, 3, 1, 0; 2017 QJ_{71}, 12, 1, 0; 2017 QY_{130}, 10, 1, 0; 2017 TR_{40}, 11, 1, 0; 2017 WD_{68}, 9, 1, 0; 2019 AA_{87}, 4, 1, 0; 2019 UN_{123}, 7, 1, 0; 2019 VX_{32}, 6, 1, 0; 2020 KD_{38}, 8, 2, 1; 2021 PG_{99}, 3, 1, 0; *[152, 22, 0*, 2011/11/01–2019/03/13]*

G37 Lowell Discovery Telescope

Observers L. H. Wasserman, W. M. Grundy, S. B. Porter, S. E. Levine. Measurer L. H. Wasserman. 4.3-m Discovery Channel Telescope + CCD. (01)

Observer A. Thirouin. (03)

Observer M. Devogele. Measurer M. Micheli. 4.3-m reflector + CCD. (05)

{1} 2008 UM_{417}, 3, 1, 0; 2010 SU_{31}, 3, 1, 0; 2011 QN_{115}, 3, 1, 0; 2013 ES_{179} *, 2, 1, 0; 2013 JK_{79}, 2, 1, 0; 2014 KY_{139}, 2, 1, 0; 2014 PC_{98}, 2, 1, 0; 2014 QH_{561}, 2, 1, 0; 2015 MN_{185}, 2, 1, 0; 2015 VV_{206}, 3, 1, 0; 2016 EJ_{307} *, 2, 1, 0; 2016 NN_{152}, 3, 1, 0; 2017 SF_{265}, 2, 1, 0; 2019 MW_{25}, 2, 1, 0; 2019 PO_{67}, 2, 1, 0; 2019 TP_{77}, 2, 1, 0; 2020 JE_{33}, 3, 1, 0; 2020 KJ_{37}, 3, 1, 0; 2021 CP_{34}, 3, 1, 0; 2021 NL_{39}, 3, 1, 0; 2021 PZ_{13}, 3, 1, 0; 2021 PR_{40}, 2, 1, 0; 2021 PX_{42}, 2, 1, 0; (568104), 2, 1, 0; *[58, 24, 2*, 2013/03/12–2021/08/08]*

{3} 2020 QH_{83}, 2, 1, 0; *[2, 1, 0*, 2021/09/13]*

{5} 2021 GK_1, 4, 1, 0; 2021 PA_{15}, 4, 2, 7; 2021 RN, 5, 2, 7; 2021 RT_1, 4, 1, 0; 2021 RZ_3, 4, 1, 0; 2021 RT_4, 2, 1, 0; 2021 RY_4, 4, 1, 0; 2021 RN_5, 2, 1, 0; 2021 RS_5, 4, 1, 0; 2021 RV_5, 4, 1, 0; 2021 RX_5, 4, 1, 0; 2021 RB_6, 4, 1, 0; 2021 RQ_9, 4, 1, 0; 2021 RM_{10}, 2, 1, 0; 2021 RN_{10}, 2, 1, 0; 2021 RG_{12}, 2, 1, 0; 2021 RK_{14}, 4, 1, 0; 2021 RL_{14}, 3, 1, 0; 2021 RS_{14}, 2, 1, 0; *[64, 19, 0*, 2021/09/08–2021/09/15]*

G40 Slooh.com Canary Islands Observatory

Observer M. Kumrucu-Lohmiller. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD. (10)

Observers G. Gašparović, Y. Chen. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (11)

Observer W. F. Cashwell. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (16)

Observer J. L. Schiff. 0.51-m $f/6.8$ Corrected Dall-Kirkham + CCD. (26)

Observer E. Cortes. 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (29)

{10} 2014 HO_{129}, 5, 2, 1; 2021 PS_2, 6, 2, 3; 2021 SG, 4, 1, 0; *[15, 3, 0*, 2021/08/12–2021/09/18]*

{11} 2006 VU_{14}, 2, 1, 0; *[2, 1, 0*, 2017/11/13]*

{16} 2019 UD_4, 2, 1, 0; 2021 QW, 2, 1, 0; *[4, 2, 0*, 2021/08/09–2021/09/01]*

{26} 2021 MG_1, 15, 1, 0; *[15, 1, 0*, 2021/08/27]*

{29} 2021 MG_1, 6, 1, 0; 2021 PR_2, 3, 1, 0; 2021 PY_{40}, 4, 1, 0; *[13, 3, 0*, 2021/08/24–2021/09/09]*

G49 Minnetonka

Observer D. Brandt. 0.2-m $f/5.0$ reflector + CCD.

(105), 3, 1, 0; (582), 6, 1, 0; *[9, 2, 0*, 2021/08/10–2021/08/12]*

G53 Alder Springs Observatory, Auberry

Observer K. Levin. Measurer N. Teamo. 0.51-m $f/8.51$ Ritchey-Chrétien + 4096×4096 CCD.

2020 DS_{13}, 3, 1, 0; 2021 QE_{35}, 2, 1, 0; *[5, 2, 0*, 2012/10/10–2012/10/21]*

G58 Chabot Space and Science Center, Oakland

Observer G. McKeegan. 0.9-m $f/4.5$ Cassegrain + CCD.

2012 QQ_{50}, 3, 1, 0; 2014 UU_{192}, 3, 1, 0; 2021 QR_1, 3, 1, 0; *[9, 3, 0*, 2021/08/30]*

G92 Jarnac Observatory, Vail

Observers D. Levy, W. Levy, T. Glinos. Measurer P. Engine. 0.64-m $f/7.2$ Ritchey-Chrétien + CCD.

2008 OS_{32}, 3, 1, 0; *[3, 1, 0*, 2008/11/19]*

G96 Mt. Lemmon Survey

Observers D. Rankin, H. Groeller, G. J. Leonard, A. D. Grauer, R. E. Hill, D. C. Fuls, R. A. Kowalski, G. M. Hupe, R. Hill, R. G. Matheny, E. Beshore, E. J. Christensen, A. Boattini, J. A. Johnson, A. R. Gibbs, K. W. Wierzchos, E. C. Beshore, B. M. Africano, T. A. Pruyne, S. M. Larson, A. Grauer, R. A. Kowalkski, R. J. Wright, S. F. Tornero, C. J. Bayus, j. Christensen, R. A. kowalski, J. A. Myers, R. J. Sanders, C. A. Nall, A. G. Hill, D. W. McCarthy, C. Casey, W. A. Chapman, S. Larson, S. M. Larsonj, B. J. Gray, R.Hill, S. L. Hill. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, A. Boattini, R. E. Hill, R. H. McNaught, E. C. Beshore, G. J. Garradd, J. A. Johnson, R. G. Matheny, J. D. Ahern, B. M. Africano, C. M. Casey, A. Grauer, R. J. Sanders, B. Gray, M. Micheli.

1.5-m reflector + 10K CCD, 1.5-m reflector + CCD, 1.5-m Schmidt + CCD.

1986 NA, 4, 1, 0; 1991 PN, 8, 2, 10; 1992 SS_{27}, 8, 2, 1; 1992 TJ_2, 4, 1, 0; 1992 WQ_{10}, 4, 1, 0; 1993 SZ_{16}, 4, 1, 0; 1994 AX_5, 4, 1, 0; 1994 ND_5, 4, 1, 0; 1994 RH_6, 4, 1, 0; 1994 RD_{30}, 4, 1, 0; 1994 SG_{11}, 4, 1, 0; 1994 TA_{18}, 4, 1, 0; 1994 UX_8, 12, 3, 4916; 1994 XL_6, 4, 1, 0; 1995 KB, 4, 1, 0; 1995 QY_{15}, 4, 1, 0; 1995 QH_{17}, 4, 1, 0; 1995 QJ_{17}, 8, 2, 1; 1995 SB_7, 4, 1, 0; 1995 SZ_{12}, 4, 1, 0; 1995 SU_{31}, 7, 2, 4705; 1995 SH_{41}, 4, 1, 0; 1995 SF_{47}, 4, 1, 0; 1995 SV_{55}, 4, 1, 0; 1995 SE_{56}, 12, 3, 2696; 1995 SP_{60}, 4, 1, 0; 1995 SS_{67}, 4, 1, 0; 1995 SO_{69}, 4, 1, 0; 1995 SS_{77}, 4, 1, 0; 1995 SK_{88}, 4, 1, 0; 1995 SM_{88}, 4, 1, 0; 1995 SP_{90}, 8, 2, 1; 1995 TH_4, 4, 1, 0; 1995 TC_5, 4, 1, 0; 1995 UD_{17}, 3, 1, 0; 1995 UO_{28}, 4, 1, 0; 1995 UA_{29}, 4, 1, 0; 1995 UT_{33}, 8, 2, 1; 1995 UL_{35}, 4, 1, 0; 1995 UP_{38}, 4, 1, 0; 1995 UC_{52}, 8, 2, 1; 1995 UW_{67}, 4, 1, 0; 1995 UF_{69}, 4, 1, 0; 1995 UT_{72}, 4, 1, 0; 1995 UP_{76}, 4, 1, 0; 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H06 iTelescope Observatory, Mayhill

Observer J. F. S. Theron. (88)

{88} (108), 3, 1, 0; *[3, 1, 0*, 2021/07/22]*

H11 LightBuckets Observatory, Rodeo

Observer T. Vorobjov. 0.61-m $f/8$ Ritchey-Chrétien + CCD.

2021 RC_{23}, 4, 1, 0; *[4, 1, 0*, 2010/03/21]*

H15 ISON-NM Observatory, Mayhill

Observer L. Elenin. Measurers L. Elenin, V. Savanevych, A. Bryukhovetskiy. 0.45-m $f/2.8$ astrograph + CCD, 0.4-m $f/3$ reflector + CCD.

2003 SW_{473}, 4, 1, 0; 2008 EX_{27}, 4, 1, 0; 2010 EC_{160}, 3, 1, 0; 2011 SA_{337}, 4, 1, 0; 2011 SL_{337}, 4, 1, 0; 2012 SA_{94}, 4, 1, 0; 2016 QQ_{131}, 4, 1, 0; 2021 KX_5, 4, 1, 0; (59061), 3, 1, 0; (585409), 4, 1, 0; *[38, 10, 0*, 2011/08/27–2018/11/29]*

H21 Astronomical Research Observatory, Westfield

Observer R. Holmes. Measurers M. Urbanik, T. Linder, R. Holmes, L. Horn, T. Vorobjov, J. Urbanski, C. Bell, L. Buzzi, S. Foglia, H. Devore, T. Lister. 0.81-m $f/4.0$ astrograph + CCD, 0.76-m $f/3.0$ astrograph + CCD, 1.3-m $f/4.0$ astrograph + CCD, 0.61-m $f/4.0$ astrograph + CCD, 0.61-m $f/4.5$ astrograph + CCD, 0.81-m $f/4.5$ astrograph + CCD.

2000 SJ_{377}, 3, 1, 0; 2004 LZ_5, 3, 1, 0; 2006 BO_{55}, 3, 1, 0; 2008 QY_{51}, 4, 1, 0; 2008 SM_{351}, 3, 1, 0; 2009 MX_{12}, 6, 2, 1; 2009 YY_{33}, 3, 1, 0; 2010 PU_{34}, 3, 1, 0; 2010 RJ_{53}, 5, 1, 0; 2010 TF_{227}, 3, 1, 0; 2010 VC_{270}, 3, 1, 0; 2011 OE_{16}, 3, 1, 0; 2011 QJ_{115}, 2, 1, 0; 2011 SM_5, 5, 2, 1; 2011 SZ_{120}, 3, 1, 0; 2011 TN_{22} *, 3, 1, 0; 2011 UU_{476}, 2, 1, 0; 2011 UD_{479}, 3, 1, 0; 2012 DE_{61}, 3, 1, 0; 2012 DJ_{126} *, 3, 1, 0; 2012 HF_{109}, 3, 1, 0; 2012 ST_{94} *, 4, 1, 0; 2013 OS_{17}, 3, 1, 0; 2013 PQ_{120}, 4, 1, 0; 2013 TS_4, 3, 1, 0; 2014 DU_{110}, 3, 1, 0; 2014 DU_{188}, 3, 1, 0; 2014 HM_{233}, 3, 1, 0; 2014 SH_{142}, 2, 1, 0; 2014 SX_{298}, 3, 1, 0; 2015 BQ_{211}, 3, 1, 0; 2015 EG_{51}, 4, 1, 0; 2015 VR_1, 2, 1, 0; 2016 AO_{352}, 3, 1, 0; 2016 BQ, 2, 1, 0; 2016 NC_{150}, 3, 1, 0; 2016 PF_{190}, 4, 1, 0; 2016 PM_{217}, 4, 1, 0; 2016 PG_{218}, 4, 1, 0; 2016 QJ_{44}, 3, 1, 0; 2016 RP_{40}, 3, 1, 0; 2016 TM_{173}, 3, 1, 0; 2016 VY_5, 3, 1, 0; 2016 YN, 2, 1, 0; 2017 SB_{120}, 3, 1, 0; 2018 FP_3, 2, 1, 0; 2019 XB_{13}, 3, 1, 0; 2020 GT_{15}, 2, 1, 0; 2020 HH_{120}, 2, 1, 0; 2020 HO_{122}, 3, 1, 0; 2020 PK, 3, 1, 0; 2021 AH_7, 3, 1, 0; 2021 FV_1, 2, 1, 0; 2021 FH_2, 2, 1, 0; 2021 FX_3, 3, 1, 0; 2021 HQ_2, 3, 1, 0; 2021 JH_2, 5, 1, 0; 2021 KF, 5, 2, 14; 2021 LE_2, 2, 1, 0; 2021 LG_2, 8, 3, 7; 2021 LK_2, 3, 1, 0; 2021 LG_3, 3, 1, 0; 2021 LK_5, 3, 1, 0; 2021 LU_6, 8, 3, 14; 2021 LX_6, 3, 1, 0; 2021 MY_1, 3, 1, 0; 2021 MK_5, 3, 1, 0; 2021 MB_{13},

3, 1, 0; 2021 NW, 3, 1, 0; 2021 NZ_5, 13, 5, 27; 2021 NA_6, 4, 2, 26; 2021 OH_2, 3, 1, 0; 2021 PB_1, 3, 1, 0; 2021 PA_2, 2, 1, 0; 2021 PD_2, 3, 1, 0; 2021 PM_4, 3, 1, 0; 2021 PQ_4, 4, 1, 0; 2021 PV_4, 2, 1, 0; 2021 PC_5, 3, 1, 0; 2021 PE_5, 3, 1, 0; 2021 PF_5, 4, 1, 0; 2021 PQ_6, 3, 1, 0; 2021 PT_6, 3, 1, 0; 2021 PU_6, 2, 1, 0; 2021 PW_6, 3, 1, 0; 2021 PX_6, 4, 1, 0; 2021 PY_6, 4, 1, 0; 2021 PZ_6, 3, 1, 0; 2021 PA_7, 3, 1, 0; 2021 PG_7, 3, 1, 0; 2021 PC_9, 3, 1, 0; 2021 PY_9, 5, 2, 11; 2021 PB_{10}, 4, 1, 0; 2021 PD_{10}, 3, 1, 0; 2021 PH_{10}, 3, 1, 0; 2021 PA_{15}, 6, 2, 3; 2021 PB_{15}, 3, 1, 0; 2021 PC_{15}, 5, 2, 3; 2021 PD_{15}, 3, 1, 0; 2021 PF_{15}, 3, 1, 0; 2021 PA_{17}, 3, 1, 0; 2021 PB_{17}, 4, 1, 0; 2021 PN_{19}, 3, 1, 0; 2021 PC_{23}, 2, 1, 0; 2021 PD_{23}, 3, 1, 0; 2021 PJ_{23}, 4, 1, 0; 2021 PL_{23}, 2, 1, 0; 2021 PA_{24}, 5, 2, 1; 2021 PZ_{40}, 3, 1, 0; 2021 PF_{46}, 2, 1, 0; 2021 QK, 3, 1, 0; 2021 QP, 9, 2, 7; 2021 QW, 4, 1, 0; 2021 QF_1, 3, 1, 0; 2021 QG_1, 6, 2, 1; 2021 QH_1, 3, 1, 0; 2021 QK_1, 3, 1, 0; 2021 QR_1, 4, 1, 0; 2021 QS_1, 5, 2, 1; 2021 QV_1, 3, 1, 0; 2021 QN_2, 3, 1, 0; 2021 QP_2, 4, 1, 0; 2021 QQ_2, 2, 1, 0; 2021 QU_2, 3, 1, 0; 2021 QP_3, 3, 1, 0; 2021 QQ_3, 2, 1, 0; 2021 QR_3, 3, 1, 0; 2021 QS_3, 3, 1, 0; 2021 QU_3, 3, 1, 0; 2021 QB_4, 3, 1, 0; 2021 QJ_4, 2, 1, 0; 2021 QK_4, 3, 1, 0; 2021 QZ_4, 3, 1, 0; 2021 QA_5, 2, 1, 0; 2021 QB_5, 2, 1, 0; 2021 QC_5, 3, 1, 0; 2021 QH_5, 3, 1, 0; 2021 QL_5, 2, 1, 0; 2021 QM_5, 2, 1, 0; 2021 QO_5, 3, 1, 0; 2021 QQ_5, 2, 1, 0; 2021 QV_5, 2, 1, 0; 2021 QE_6, 3, 1, 0; 2021 QL_6, 2, 1, 0; 2021 QM_6, 2, 1, 0; 2021 QN_6, 2, 1, 0; 2021 QQ_6, 3, 1, 0; 2021 QV_6, 3, 1, 0; 2021 QB_{11}, 3, 1, 0; 2021 RA, 4, 1, 0; 2021 RB, 3, 1, 0; 2021 RC_1, 5, 1, 0; 2021 RE_1, 2, 1, 0; 2021 RF_1, 2, 1, 0; 2021 RG_1, 2, 1, 0; 2021 RH_1, 2, 1, 0; 2021 RJ_1, 2, 1, 0; 2021 RK_1, 3, 1, 0; 2021 RL_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RP_1, 3, 1, 0; 2021 RQ_1, 2, 1, 0; 2021 RR_1, 3, 1, 0; 2021 RS_1, 2, 1, 0; 2021 RV_1, 3, 1, 0; 2021 RW_1, 5, 2, 1; 2021 RY_1, 2, 1, 0; 2021 RZ_1, 3, 1, 0; 2021 RA_2, 2, 1, 0; 2021 RB_2, 3, 1, 0; 2021 RD_2, 5, 2, 1; 2021 RE_2, 4, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RK_2, 2, 1, 0; 2021 RL_2, 3, 1, 0; 2021 RM_2, 2, 1, 0; 2021 RN_2, 5, 2, 1; 2021 RO_2, 3, 1, 0; 2021 RR_2, 2, 1, 0; 2021 RU_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RY_2, 6, 2, 1; 2021 RZ_2, 3, 1, 0; 2021 RA_3, 2, 1, 0; 2021 RB_3, 3, 1, 0; 2021 RC_3, 5, 2, 1; 2021 RD_3, 2, 1, 0; 2021 RL_3, 4, 1, 0; 2021 RN_3, 3, 1, 0; 2021 RP_3, 3, 1, 0; 2021 RV_3, 6, 2, 2; 2021 RW_3, 4, 1, 0; 2021 RX_3, 3, 1, 0; 2021 RZ_3, 3, 1, 0; 2021 RA_4, 3, 1, 0; 2021 RB_4, 2, 1, 0; 2021 RC_4, 3, 1, 0; 2021 RD_4, 3, 1, 0; 2021 RE_4, 2, 1, 0; 2021 RL_4, 3, 1, 0; 2021 RX_4, 3, 1, 0; 2021 RZ_4, 2, 1, 0; 2021 RP_5, 2, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RS_5, 4, 1, 0; 2021 RT_5, 5, 2, 1; 2021 RA_6, 3, 1, 0; 2021 RE_6, 2, 1, 0; 2021 RG_6, 8, 1, 0; 2021 RO_6, 2, 1, 0; 2021 RQ_6, 2, 1, 0; 2021 RV_6, 4, 1, 0; 2021 RW_6, 2, 1, 0; 2021 RB_7, 2, 1, 0; 2021 RD_7, 2, 1, 0; 2021 RE_7, 2, 1, 0; 2021 RG_7, 2, 1, 0; 2021 RJ_7, 5, 2, 1; 2021 RK_7, 2, 1, 0; 2021 RM_7, 3, 1, 0; 2021 RP_7, 2, 1, 0; 2021 RV_7, 3, 1, 0; 2021 RW_7, 2, 1, 0; 2021 RB_8, 3, 1, 0; 2021 RC_8, 2, 1, 0; 2021 RD_8, 3, 1, 0; 2021 RO_9, 6, 2, 2; 2021 RQ_9, 2, 1, 0; 2021 RT_9, 4, 1, 0; 2021 RU_9, 6, 2, 1; 2021 RW_9, 2, 1, 0; 2021 RD_{10}, 3, 1, 0; 2021 RL_{10}, 3, 1, 0; 2021 RP_{10}, 3, 1, 0; 2021 RU_{10}, 4, 1, 0; 2021 RU_{11}, 2, 1, 0; 2021 RZ_{11}, 2, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 2, 1, 0; 2021 RJ_{12}, 6, 2, 2; 2021 RO_{12}, 2, 1, 0; 2021 RP_{12}, 2, 1, 0; 2021 RJ_{14}, 5, 1, 0; 2021 RY_{14}, 3, 1, 0; 2021 RZ_{14}, 2, 1, 0; 2021 RA_{15}, 4, 1, 0; 2021 RC_{15}, 4, 1, 0; 2021 RD_{15}, 3, 1, 0; 2021 RF_{15}, 3, 1, 0; 2021 RG_{15}, 6, 2, 1; 2021 RH_{15}, 3, 1, 0; 2021 RJ_{15}, 3, 1, 0; 2021 RL_{15}, 3, 1, 0; 2021 RD_{16}, 3, 1, 0; 2021 RJ_{16}, 3, 1, 0; 2021 RE_{19}, 6, 2, 2; 2021 RF_{19}, 2, 1, 0; 2021 RG_{19}, 5, 2, 2; 2021 RJ_{19}, 3, 1, 0; 2021 RN_{19}, 3, 1, 0; 2021 RS_{19}, 2, 1, 0; 2021 RT_{19}, 2, 1, 0; 2021 RD_{20}, 4, 1, 0; 2021 RE_{20}, 5, 2, 1; 2021 RM_{22}, 6, 2, 1; 2021 SA, 5, 1, 0; 2021 SB, 4, 1, 0; 2021 SC, 5, 1, 0; 2021 SD, 4, 1, 0; 2021 SE, 5, 1, 0; 2021 SF, 4, 1, 0; 2021 SG, 5, 1, 0; 2021 SK, 3, 1, 0; 2021 SL, 3, 1, 0; (64798), 4, 1, 0; (376883), 3, 1, 0; (471034), 3, 1, 0; (584604), 3, 1, 0; *[904, 278, 3*, 2010/08/13–2021/09/18]*

H23 Pear Tree Observatory, Valparaiso

Observer T. Haugh. 0.32-m $f/5.8$ Newtonian reflector + CCD.

(1347), 3, 1, 0; (7549), 3, 1, 0; (8364), 3, 1, 0; (8675), 3, 1, 0; (12629), 3, 1, 0; (19791), 3, 1, 0; (28297), 3, 1, 0; (37581), 3, 1, 0; (62380), 3, 1, 0; (63131), 3, 1, 0; (69349), 3, 1, 0; (69780), 3, 1, 0; (72732), 3, 1, 0; (89054), 3, 1, 0; (94231), 3, 1, 0; (122859), 3, 1, 0; (122907), 3, 1, 0; (200077), 3, 1, 0; (213579), 3, 1, 0; (230040), 3, 1, 0; *[60, 20, 0*, 2021/08/18–2021/09/11]*

H27 Moonglow Observatory, Warrensburg

Observer M. Bruenjes. 0.36-m $f/2.0$ Schmidt-Cassegrain + CCD.

2005 TR_{45}, 3, 1, 0; 2021 MG_1, 3, 1, 0; *[6, 2, 0*, 2021/09/07–2021/09/17]*

H36 Sandlot Observatory, Scranton

Observer G. Hug. 0.56-m $f/5.1$ reflector + CCD, 0.56-m reflector + CCD.

2007 EC_{242}, 2, 1, 0; 2021 KV_{15}, 14, 3, 2; *[16, 2, 0*, 2020/02/29–2021/06/04]*

H45 Arkansas Sky Obs., Petit Jean Mountain South

Observer P. C. Sherrod. Measurers P. C. Sherrod, N. Sherrod, C. L. Sherrod. 0.51-m $f/4.3$ astrograph + CCD.

2001 EC, 6, 1, 0; 2011 UC_{292}, 6, 1, 0; 2021 JH_2, 6, 1, 0; (29075), 2, 1, 0; *[20, 4, 0*, 2021/08/29–2021/09/03]*

H55 Astronomical Research Observatory, Charleston

Observer R. Holmes. Measurers H. Devore, R. Holmes. 0.81-m $f/4.0$ astrograph + CCD.

2008 RA_{71}, 3, 1, 0; 2012 UL_{235}, 3, 1, 0; 2017 SO_{265}, 6, 1, 0; *[12, 3, 0*, 2007/09/13–2008/11/04]*

H82 CBA-NOVAC Observatory, Front Royal

Observer D. Skillman. 0.66-m $f/2.7$ reflector + CCD.

2010 RA_{216}, 3, 1, 0; *[3, 1, 0*, 2010/10/08]*

I03 European Southern Obs., La Silla–ASTROVIRTEL

Observer '. '. Measurers S. Magrin, S. Marchi, A. Migliorini. (01)

{1} 2016 PN_{218}, 3, 1, 0; 2020 HZ_{91}, 2, 1, 0; *[5, 2, 0*, 2001/12/15–2003/02/07]*

I22 Abbey Ridge Observatory, Stillwater Lake

Observer F. D. Romanov. 0.35-m $f/6.2$ Schmidt-Cassegrain + CCD. (02)

{2} 2021 QA, 35, 1, 0; 2021 RA_{10}, 6, 1, 0; (3200), 5, 2, 1; (285571), 31, 1, 0; (523664), 11, 1, 0; *[88, 5, 0*, 2021/08/17–2021/09/15]*

I41 Palomar Mountain–ZTF

Observers B. T. Bolin, Z. T. F. Collaboration, Q.-Z. Ye, A. U. Tomatic, V. Bhalerao, Y.-L. Cheng, C. M. Copperwheat, K. P. Deshmukh, G. Helou, C.-Y. Hsu, E. A. Kramer, Z.-Y. Lin, F. J. Masci, T. A. Prince, K. Sharma, V. Vishwajeet, C. Zhai, P. T. Factory. Measurers B. T. Bolin, G. Helou, E. A. Kramer, Z.-Y. Lin, F. J. Masci, T. A. Prince, W.-H. Ip, A. Mimeev, Q.-Z. Ye, F. Masci, D. A. Duev, H.-W. Lin, C. Zhai, M. Shao, A. Waszczak, S. Deen. 1.2-m $f/2.4$ Schmidt, 1.2-m $f/2.44$ Oschin Schmidt, 1.2-m $f/2.44$ Oschin Schmidt + CCD, 1.2-m $f/2.4$ Oschin Schmidt, 1.2-m $f/2.44$ Schmidt + CCD, 1.2-m Oschin Schmidt + CCD, 1.2-m $f/2.4$ Oschin Schmidt + CCD.

1986 NA, 4, 1, 0; 1990 SM_{24}, 6, 3, 6; 1994 XL_6, 15, 4, 8; 1995 QY_{15}, 5, 2, 2; 1995 QJ_{17}, 6, 2, 2; 1995 SL_7, 4, 2, 2; 1996 CS_9, 8, 3, 11; 1996 RC_{22}, 15, 7, 11; 1996 RK_{23}, 17, 7, 12; 1997 AF_{12}, 8, 4, 5; 1997 JX_2, 4, 2, 2; 1997 UK_6, 4, 2, 4; 1998 QA_{112}, 4, 1, 0; 1998 RU_{81}, 4, 2, 4; 1998 SA_{21}, 5, 2, 2; 1998 SL_{36}, 4, 1, 0; 1998 SH_{178}, 8, 3, 10; 1998 SH_{179}, 6, 2, 2; 1998 UL_{51}, 5, 2, 2; 1998 VE_{41}, 4, 2, 4; 1999 BW_{27}, 4, 2, 2; 1999 EQ_{15}, 11, 5, 4; 1999 FB_{71}, 4, 2, 2; 1999 PD_9, 5, 2, 2; 1999 RV_4, 11, 2, 11; 1999 RY_{86}, 8, 3, 4; 1999 RL_{245}, 4, 2, 4; 1999 RZ_{259}, 8, 4, 31; 1999 TF_{50}, 5, 2, 4; 1999 TQ_{141}, 6, 3, 4; 1999 TM_{195}, 10, 4, 11; 1999 TX_{307}, 4, 2, 2; 1999 TK_{337}, 4, 2, 2; 1999 TV_{337}, 6, 3, 4; 1999 TE_{342}, 4, 2, 2; 1999 UJ_{65}, 4, 2, 2; 1999 UM_{65}, 4, 2, 2; 1999 VU_{99}, 11, 5, 8; 1999 VJ_{133}, 12, 5, 21; 1999 XG_{266}, 19, 8, 13; 1999 YM_2, 4, 2, 2; 1999 YE_3, 7, 3, 43; 2000 AP_{209}, 14, 6, 36; 2000 BC_{37}, 6, 3, 4; 2000 GC_{131}, 4, 1, 0; 2000 LG_{10}, 8, 4, 25; 2000 OT_{70}, 9, 2, 2; 2000 PA_{13}, 8, 4, 6; 2000 QC_7, 10, 3, 4; 2000 QA_{115}, 13, 4, 8; 2000 QB_{148}, 21, 6, 17; 2000 QV_{248}, 6, 2, 4; 2000 RP_{52}, 22, 8, 24; 2000 RO_{53}, 17, 7, 9; 2000 RY_{108}, 4, 2, 2; 2000 RB_{110}, 5, 2, 2; 2000 RM_{110}, 9, 3, 4; 2000 SX_{23}, 14, 5, 10; 2000 SN_{34}, 10, 5, 18; 2000 SS_{51}, 8, 3, 6; 2000 SU_{55}, 7, 3, 4; 2000 SP_{58}, 4, 2, 2; 2000 SE_{156}, 5, 2, 2; 2000 SC_{190}, 11, 4, 3; 2000 SE_{205}, 9, 3, 24; 2000 SZ_{308}, 4, 2, 2; 2000 SD_{377}, 8, 4, 13; 2000 SG_{379}, 4, 1, 0; 2000 SA_{382}, 4, 2, 4; 2000 TW, 7, 3, 4; 2000 TA_1, 22, 6, 6; 2000 TM_{42}, 4, 2, 2; 2000 TF_{44}, 6, 3, 4; 2000 TC_{81}, 12, 5, 7; 2000 UZ_{111}, 20, 9, 10; 2000 UF_{115}, 4, 2, 2; 2000 VR_{65}, 8, 4, 5; 2000 WS_{198}, 21, 8, 9; 2000 WO_{201}, 7, 3, 4; 2000 XX_{55}, 4, 2, 2; 2000 YV_{145}, 14, 5, 5; 2001 BV_{83}, 5, 2, 4; 2001 CD_{50}, 28, 10, 10; 2001 DL_{95}, 15, 6, 8; 2001 DM_{114}, 7, 2, 2; 2001 DA_{115}, 13, 5, 17; 2001 DW_{116}, 4, 2, 2; 2001 EC, 4, 1, 0; 2001 FV_{219}, 5, 2, 2; 2001 FD_{227}, 4, 2, 2; 2001 FJ_{230}, 5, 1, 0; 2001 FK_{233}, 17, 8, 10; 2001 KU_{80}, 7, 3, 6; 2001 KM_{84}, 2, 1, 0; 2001 OP_{114}, 4, 2, 2; 2001 PO_{13}, 4, 2, 2; 2001 PW_{67}, 4, 1, 0; 2001 QS_{108}, 12, 4, 19; 2001 QF_{136}, 17, 6, 26; 2001 QZ_{152}, 4, 2, 2; 2001 QG_{300}, 2, 1, 0; 2001 RQ_{46}, 28, 8, 9; 2001 SV_8, 4, 2, 2; 2001 SV_{184}, 4, 2, 2; 2001 SW_{356}, 4, 2, 2; 2001 SY_{356}, 4, 1, 0; 2001 SO_{357}, 2, 1, 0; 2001 SM_{361}, 6, 3, 4; 2001 TB_{262}, 5, 1, 0; 2001 TR_{262}, 11, 5, 11; 2001 TO_{268}, 7, 3, 4; 2001 UC_{92}, 1, 1, 0; 2001 UP_{164}, 8, 3, 14; 2001 UJ_{185}, 5, 3, 4; 2001 UB_{234}, 4, 2, 2; 2001 UK_{237}, 6, 2, 2; 2001 WU_{15}, 4, 2, 2; 2001 WA_{69}, 4, 2, 2; 2001 XX_{12}, 10, 5, 35; 2001 XW_{219}, 9, 4, 5; 2001 YE_{93}, 5, 2, 4; 2001 YC_{163}, 9, 4, 18; 2002 AS_{146}, 15, 6, 7; 2002 CQ_{116}, 9, 4, 6; 2002 CD_{196}, 5, 2, 10; 2002 DF_8, 12, 5, 7; 2002 DS_{11}, 43, 15, 35; 2002 EY_{165}, 8, 3, 2; 2002 FN_{42}, 4, 2, 2; 2002 GL_{191}, 4, 2, 2; 2002 KS_{17}, 4, 2, 1; 2002 PV_{17}, 4, 2, 4; 2002 PX_{18}, 9, 4, 36; 2002 PP_{63}, 10, 4, 8; 2002 PP_{113}, 8, 2, 31; 2002 PT_{141}, 4, 2, 4; 2002 PU_{158}, 7, 2, 2; 2002 PW_{178}, 4, 2, 2; 2002 PW_{185}, 4, 2, 2; 2002 PG_{191}, 4, 1, 0; 2002 PM_{192}, 12, 5, 14; 2002 PN_{203}, 5, 2, 2; 2002 PL_{205}, 5, 2, 2; 2002 QQ_{15}, 8, 2, 1; 2002 QN_{24}, 4, 2, 2; 2002 QG_{46}, 9, 2, 2; 2002 QL_{53}, 7, 3, 4; 2002 QD_{76}, 5, 2, 2; 2002 QX_{99}, 5, 1, 0; 2002 QL_{106}, 4, 2, 2; 2002 QK_{151}, 8, 4, 8; 2002 RG_{30}, 8, 4, 8; 2002 RO_{137}, 10, 2, 11; 2002 RY_{180}, 7, 3, 4; 2002 RB_{192}, 4, 1, 0; 2002 RO_{202}, 12, 6, 12; 2002 RF_{241}, 8, 2, 2; 2002 RZ_{295},

10, 3, 16; 2002 RP_{296}, 4, 2, 2; 2002 RP_{297}, 4, 2, 2; 2002 SY_{46}, 11, 5, 38; 2002 SX_{74}, 23, 7, 11; 2002 TU_{58}, 4, 2, 2; 2002 TV_{61}, 4, 2, 2; 2002 TT_{70}, 16, 7, 10; 2002 TF_{87}, 4, 1, 0; 2002 TF_{127}, 4, 2, 4; 2002 TC_{153}, 4, 2, 2; 2002 TV_{162}, 34, 10, 9; 2002 TZ_{212}, 11, 6, 8; 2002 TU_{388}, 10, 5, 13; 2002 TZ_{392}, 9, 4, 9; 2002 UW_{30}, 8, 4, 9; 2002 UD_{79}, 5, 2, 2; 2002 UH_{81}, 5, 2, 2; 2002 VJ_{118}, 34, 10, 18; 2002 VV_{132}, 4, 2, 4; 2002 WG_7, 4, 2, 4; 2002 WV_{31}, 19, 8, 11; 2002 WJ_{32}, 5, 2, 4; 2003 AO_{85}, 4, 1, 0; 2003 FL_1, 7, 2, 2; 2003 FH_{42}, 5, 2, 2; 2003 FR_{139}, 4, 2, 2; 2003 FC_{141}, 4, 1, 0; 2003 GW_{58}, 5, 2, 2; 2003 HQ_{59}, 6, 3, 4; 2003 JA_1, 4, 2, 4; 2003 JC_{17}, 4, 2, 1; 2003 KT_{18}, 9, 4, 25; 2003 NC_{14}, 4, 2, 2; 2003 OH_3, 23, 7, 10; 2003 QA, 4, 1, 0; 2003 QJ, 7, 3, 4; 2003 QW_{34}, 8, 3, 6; 2003 QF_{76}, 18, 6, 12; 2003 QS_{94}, 4, 2, 2; 2003 QT_{125}, 13, 1, 0; 2003 QY_{125}, 23, 7, 11; 2003 RY_2, 11, 3, 5; 2003 RZ_5, 4, 2, 2; 2003 RF_{17}, 4, 2, 2; 2003 RA_{28}, 10, 4, 5; 2003 SP_8, 4, 2, 2; 2003 SA_{18}, 11, 4, 8; 2003 SO_{35}, 11, 5, 11; 2003 SE_{55}, 5, 2, 2; 2003 SZ_{60}, 6, 3, 4; 2003 SA_{69}, 6, 2, 2; 2003 SY_{80}, 4, 1, 0; 2003 SL_{81}, 4, 2, 2; 2003 SL_{98}, 4, 2, 4; 2003 SL_{119}, 15, 5, 4; 2003 SC_{145}, 4, 2, 2; 2003 SY_{163}, 4, 2, 2; 2003 SK_{202}, 11, 5, 19; 2003 SW_{227}, 17, 8, 10; 2003 SU_{261}, 4, 2, 4; 2003 SX_{289}, 5, 3, 4; 2003 SA_{327}, 4, 1, 0; 2003 ST_{328}, 5, 2, 2; 2003 SE_{332}, 26, 8, 10; 2003 SQ_{332}, 12, 5, 12; 2003 SY_{334}, 4, 2, 2; 2003 SV_{397}, 5, 2, 2; 2003 SZ_{407}, 12, 5, 5; 2003 SL_{408}, 42, 14, 14; 2003 SE_{416}, 6, 2, 2; 2003 SH_{436}, 4, 2, 2; 2003 SC_{440}, 4, 2, 2; 2003 SV_{448}, 6, 3, 4; 2003 SJ_{465}, 4, 2, 2; 2003 SN_{472}, 15, 5, 9; 2003 SS_{472}, 3, 1, 0; 2003 SW_{473}, 4, 2, 3; 2003 TS_{39}, 4, 1, 0; 2003 UD_1, 12, 6, 9; 2003 UF_1, 4, 2, 4; 2003 UG_{95}, 4, 2, 2; 2003 UO_{133}, 6, 3, 6; 2003 UK_{205}, 21, 8, 18; 2003 UZ_{214}, 8, 2, 2; 2003 UH_{220}, 4, 2, 2; 2003 UU_{233}, 9, 4, 3; 2003 UT_{238}, 4, 2, 2; 2003 UL_{271}, 9, 4, 6; 2003 UA_{323}, 4, 2, 2; 2003 UU_{369}, 6, 2, 2; 2003 UG_{371}, 17, 8, 31; 2003 UY_{375}, 4, 2, 4; 2003 UH_{377}, 4, 2, 2; 2003 UU_{390}, 9, 2, 17; 2003 UF_{421}, 4, 2, 2; 2003 UQ_{421}, 9, 4, 9; 2003 UP_{423}, 4, 2, 4; 2003 UD_{424}, 4, 2, 4; 2003 UK_{444}, 4, 2, 2; 2003 WX_{30}, 5, 2, 2; 2003 WA_{202}, 11, 5, 16; 2003 WM_{210}, 4, 2, 2; 2003 WM_{217}, 8, 3, 4; 2003 YL_{186}, 4, 2, 2; 2004 CN_{119}, 4, 2, 2; 2004 DM_1, 15, 4, 12; 2004 DR_{39}, 6, 3, 4; 2004 DO_{82}, 15, 5, 12; 2004 FC_{22}, 4, 1, 0; 2004 FB_{97}, 8, 4, 8; 2004 FS_{136}, 8, 2, 2; 2004 HF_{80}, 10, 5, 9; 2004 JH_{13}, 4, 2, 2; 2004 KB_{21}, 5, 2, 2; 2004 LT_{21}, 48, 16, 34; 2004 LH_{31}, 12, 6, 9; 2004 MJ_1, 12, 4, 7; 2004 MJ_3, 20, 8, 36; 2004 MJ_9, 5, 2, 2; 2004 NZ_{33}, 5, 3, 4; 2004 OD_{17}, 10, 4, 6; 2004 PB_{43}, 11, 5, 8; 2004 PT_{68}, 28, 9, 11; 2004 PA_{80}, 5, 2, 2; 2004 PF_{88}, 21, 8, 23; 2004 PF_{97}, 14, 5, 14; 2004 PN_{119}, 9, 4, 8; 2004 PS_{120}, 4, 2, 4; 2004 QN_{20}, 4, 2, 4; 2004 QZ_{30}, 4, 2, 2; 2004 QS_{31}, 4, 2, 2; 2004 QZ_{32}, 9, 4, 5; 2004 QC_{35}, 4, 2, 2; 2004 RN_4, 4, 2, 2; 2004 RN_{10}, 16, 5, 12; 2004 RU_{36}, 6, 3, 4; 2004 RU_{53}, 6, 3, 4; 2004 RQ_{69}, 4, 2, 2; 2004 RO_{75}, 4, 2, 2; 2004 RZ_{79}, 10, 4, 5; 2004 RG_{83}, 5, 2, 4; 2004 RN_{92}, 4, 2, 2; 2004 RJ_{97}, 4, 2, 4; 2004 RK_{98}, 4, 2, 4; 2004 RL_{106}, 5, 2, 2; 2004 RS_{116}, 2, 1, 0; 2004 RT_{123}, 40, 12, 26; 2004 RM_{136}, 4, 2, 2; 2004 RT_{139}, 21, 6, 10; 2004 RU_{139}, 7, 3, 4; 2004 RH_{143}, 10, 5, 10; 2004 RG_{153}, 8, 4, 6; 2004 RL_{156}, 9, 3, 7; 2004 RY_{163}, 4, 2, 2; 2004 RL_{187}, 4, 1, 0; 2004 RL_{201}, 17, 7, 38; 2004 RW_{201}, 4, 2, 2; 2004 RL_{204}, 6, 2, 2; 2004 RF_{207}, 70, 21, 37; 2004 RC_{210}, 4, 2, 4; 2004 RW_{212}, 54, 15, 39; 2004 RU_{214}, 7, 3, 4; 2004 RS_{221}, 81, 22, 38; 2004 RP_{222}, 42, 11, 24; 2004 RO_{290}, 4, 2, 2; 2004 RR_{302}, 6, 2, 2; 2004 RT_{304}, 5, 2, 4; 2004 RP_{308}, 4, 2, 2; 2004 RL_{311}, 4, 2, 2; 2004 RC_{313}, 4, 2, 2; 2004 RH_{321}, 4, 2, 2; 2004 RR_{322}, 6, 3, 4; 2004 RM_{330}, 5, 2, 2; 2004 RX_{338}, 9, 3, 31; 2004 RK_{340}, 11, 3, 4; 2004 RR_{346}, 4, 2, 2; 2004 RN_{363}, 7, 3, 4; 2004 SV, 13, 5, 18; 2004 SG_{28}, 6, 2, 4; 2004 ST_{35}, 9, 3, 4; 2004 SX_{42}, 4, 2, 2; 2004 SK_{57}, 5, 2, 2; 2004 SM_{61}, 7, 3, 6; 2004 SJ_{64}, 4, 3, 4; 2004 TQ_9, 4, 2, 3; 2004 TN_{12}, 7, 2, 2; 2004 TL_{14}, 23, 8, 9; 2004 TK_{21}, 4, 2, 4; 2004 TF_{38}, 6, 3, 4; 2004 TX_{63}, 8, 3, 31; 2004 TX_{64}, 15, 6, 12; 2004 TP_{66}, 7, 3, 6; 2004 TY_{71}, 13, 5, 9; 2004 TG_{93}, 5, 2, 2; 2004 TN_{102}, 15, 5, 7; 2004 TE_{111}, 4, 2, 2; 2004 TD_{120}, 6, 3, 4; 2004 TM_{120}, 2, 1, 0; 2004 TP_{130}, 5, 2, 2; 2004 TX_{132}, 56, 16, 37; 2004 TV_{134}, 5, 2, 2; 2004 TV_{158}, 6, 2, 2; 2004 TS_{175}, 4, 2, 4; 2004 TM_{195}, 5, 2, 2; 2004 TP_{200}, 7, 3, 4; 2004 TS_{201}, 8, 3, 20; 2004 TN_{227}, 5, 2, 2; 2004 TW_{253}, 9, 4, 8; 2004 TG_{257}, 4, 2, 2; 2004 TR_{259}, 14, 5, 5; 2004 TA_{272}, 4, 1, 0; 2004 TM_{288}, 4, 2, 2; 2004 TZ_{292}, 4, 2, 2; 2004 TV_{305}, 11, 4, 12; 2004 TY_{309}, 4, 2, 2; 2004 TO_{320}, 8, 3, 11; 2004 TX_{325}, 41, 14, 39; 2004 TA_{372}, 4, 2, 4; 2004 TO_{372}, 6, 3, 4; 2004 TP_{373}, 5, 2, 2; 2004 TP_{376}, 4, 1, 0; 2004 TG_{377}, 9, 3, 4; 2004 TL_{378}, 5, 2, 2; 2004 TZ_{381}, 4, 2, 2; 2004 UA_2, 15, 6, 26; 2004 UR_5, 9, 5, 8; 2004 UE_6, 8, 3, 6; 2004 UC_{12}, 4, 1, 0; 2004 VP_{23}, 27, 10, 12; 2004 VO_{133}, 4, 2, 4; 2004 VC_{136}, 8, 4, 6; 2004 WQ, 5, 2, 2; 2004 WL_{13}, 4, 2, 2; 2004 XM, 4, 2, 2; 2004 XK_6, 8, 4, 8; 2004 XP_7, 4, 2, 2; 2004 XC_{14}, 14, 5, 10; 2004 XZ_{18}, 4, 2, 2; 2004 XL_{29}, 5, 1, 0; 2004 XW_{102}, 9, 4, 3; 2004 XY_{131}, 4, 2, 2; 2004 XS_{141}, 4, 1, 0; 2004 XE_{188}, 69, 20, 35; 2004 XK_{194}, 5, 2, 2; 2004 XO_{199}, 4, 1, 0; 2005 BJ_{35}, 18, 6, 17; 2005 EC_{33}, 10, 5, 4; 2005 EW_{228}, 3, 1, 0; 2005 FV_2, 4, 1, 0; 2005 GO_{100}, 4, 2, 2; 2005 GB_{117}, 8, 4, 6; 2005 JF_{45}, 21, 6, 21; 2005 JC_{115}, 4, 1, 0; 2005 LN, 4, 2, 1; 2005 LR_{59}, 4, 2, 2; 2005 NF_{37}, 9, 4, 5; 2005 NC_{69}, 28, 10, 24; 2005 NN_{75}, 5, 2, 2; 2005 NA_{127}, 4, 2, 4; 2005 NP_{127}, 5, 2, 2; 2005 OT, 7, 3, 4; 2005 OT_{11}, 4, 2, 2; 2005 OR_{24}, 40, 12, 11; 2005 OT_{32}, 4, 2, 2; 2005 OC_{33}, 8, 3, 6; 2005 OJ_{35}, 6, 3, 14; 2005 OK_{35}, 6, 1, 0; 2005 PT_9, 4, 2, 2; 2005 PD_{22}, 11, 5, 17; 2005 PZ_{29}, 4, 2, 2; 2005 PG_{31}, 5, 2, 2; 2005 QO_{10}, 7, 2, 2; 2005 QN_{11}, 47, 13, 32; 2005 QH_{34}, 6, 2, 2; 2005 QT_{39}, 4, 2, 2; 2005 QG_{57}, 12, 5, 4; 2005 QK_{64}, 4, 2, 2; 2005 QA_{73}, 17, 6, 13; 2005 QS_{74}, 12, 5, 9; 2005 QQ_{84}, 8, 4, 20; 2005 QS_{86}, 4, 1, 0; 2005 QE_{97}, 4, 2, 2; 2005 QL_{104}, 4, 2, 2; 2005 QX_{107}, 5, 2, 2; 2005 QP_{108}, 4, 1, 0; 2005 QX_{149}, 4, 1, 0; 2005 QR_{161}, 4, 2, 2; 2005 QC_{162}, 4, 2, 2; 2005 QC_{163}, 12, 5, 10; 2005 QB_{167}, 4, 2, 2; 2005 QF_{172}, 9, 4, 16; 2005 QA_{173}, 12, 5, 24; 2005 QM_{191}, 4, 2, 2; 2005 QN_{192}, 4, 3, 4; 2005 QR_{192}, 8, 4, 11; 2005 QV_{192}, 4, 2, 2; 2005 QJ_{197}, 10, 4, 13; 2005 QU_{198}, 5, 2, 2; 2005 QN_{208}, 5, 2, 2; 2005 QS_{208}, 4, 1, 0; 2005 RV_3, 55, 17, 31; 2005 RS_{20}, 14, 7, 30; 2005 RV_{28}, 11, 3, 8; 2005 RU_{32}, 4, 2, 2; 2005 RJ_{51}, 16, 6, 10; 2005 RL_{51}, 4, 1, 0; 2005 RC_{52}, 4, 2, 2; 2005 RN_{54}, 4, 2, 2; 2005 RD_{62}, 11, 4, 11; 2005 ST_{10}, 8, 2, 1; 2005 ST_{32}, 6, 3, 6; 2005 SN_{45}, 5, 2, 4; 2005 SC_{60}, 5, 2, 2; 2005 SA_{79}, 11, 5, 12; 2005 SU_{95}, 4, 2, 2; 2005 SO_{100}, 4, 2, 2; 2005 SU_{103}, 4, 2, 4; 2005 SO_{116}, 6, 3, 4; 2005 SN_{134}, 16, 6, 11; 2005 ST_{146}, 8, 3, 9; 2005 SB_{156}, 5, 2, 2; 2005 SQ_{178}, 39, 14, 39; 2005 SU_{279}, 4, 2, 2; 2005 SE_{289}, 9, 4, 29; 2005 SO_{293}, 4, 2, 2; 2005 SD_{295}, 4, 2, 2; 2005 SJ_{295}, 9, 3, 4; 2005 SS_{295}, 8, 3, 4; 2005 SX_{295}, 4, 2, 3; 2005 SJ_{303}, 11, 4, 12; 2005 SO_{303}, 4, 1, 0; 2005 SW_{303}, 13, 5, 39; 2005 TC_{41}, 4, 2, 2; 2005 TK_{88}, 4, 2, 4; 2005 TN_{95}, 18, 6, 6; 2005 TN_{129}, 10, 4, 8; 2005 TL_{137}, 4, 2, 2; 2005 TX_{175}, 5, 2, 2; 2005 TE_{183}, 8, 4, 5; 2005 TJ_{197}, 4, 2, 4; 2005 TK_{203}, 5, 2, 2; 2005 UF_{15}, 5, 3, 4; 2005 UM_{29}, 5, 2, 2; 2005 UN_{74}, 8, 4, 30; 2005 UE_{104}, 8, 4, 20; 2005 UB_{195}, 4, 2, 2; 2005 UM_{307}, 15, 6, 12; 2005 UY_{307}, 6, 3, 4; 2005 UM_{359}, 12, 5, 25; 2005 UR_{397}, 4, 2, 4; 2005 UU_{416}, 11, 3, 8; 2005 UB_{440}, 9, 4, 11; 2005 UO_{487}, 23, 8, 14; 2005 UX_{497}, 7, 3, 6; 2005 UE_{525}, 4, 2, 2; 2005 UM_{534}, 18, 7, 9; 2005 UY_{534}, 4, 2, 2; 2005 US_{536}, 6, 2, 2; 2005 UO_{540}, 10, 5, 34; 2005 UW_{541}, 12, 4, 10; 2005 UQ_{548}, 22, 7, 11; 2005 UA_{553}, 2, 1, 0; 2005 VS_{82}, 28, 11, 36; 2005 VW_{83}, 2, 1, 0; 2005 VC_{139}, 8, 2, 2; 2005 VT_{148}, 4, 1, 0; 2005 WM_{35}, 32, 11, 19; 2005 WJ_{50}, 4, 2, 2; 2005 WZ_{70}, 46, 13, 19; 2005 WF_{84}, 11, 4, 3; 2005 WV_{135}, 4, 2, 2; 2005 WD_{165}, 6, 3, 4; 2005 WS_{203}, 9, 4, 3; 2005 XJ_{43}, 4, 2, 2; 2005 XL_{53}, 44, 15, 32; 2005 XV_{69}, 9, 4, 6; 2005 XS_{122}, 5, 2, 2; 2005 XP_{125}, 15, 7, 12; 2005 YV_2, 10, 5, 8; 2005 YC_{30}, 5, 2, 4; 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5, 16; (584191), 6, 2, 2; (584192), 43, 13, 19; (584203), 5, 2, 4; (584218), 7, 2, 4; (584229), 12, 5, 12; (584235), 9, 4, 7; (584236), 4, 1, 0; (584240), 7, 3, 4; (584245), 10, 4, 3; (584252), 4, 1, 0; (584255), 10, 4, 7; (584264), 4, 1, 0; (584268), 46, 16, 24; (584294), 19, 5, 5; (584311), 8, 3, 4; (584315), 19, 8, 33; (584327), 10, 4, 6; (584338), 6, 2, 2; (584341), 7, 1, 0; (584347), 4, 1, 0; (584361), 27, 7, 11; (584367), 13, 4, 11; (584369), 8, 3, 4; (584376), 9, 3, 6; (584381), 41, 10, 27; (584511), 9, 4, 8; (584568), 4, 2, 2; (584588), 4, 2, 2; (584593), 5, 2, 2; (584595), 4, 2, 4; (584608), 4, 2, 2; (584614), 5, 2, 4; (584617), 13, 5, 20; (584631), 5, 2, 2; (584639), 4, 2, 2; (584645), 12, 5, 8; (584667), 14, 6, 39; (584675), 12, 5, 15; (584681), 4, 2, 2; (584707), 22, 9, 16; (584735), 4, 2, 2; (584761), 33, 10, 20; (584785), 9, 3, 4; (584815), 7, 3, 4; (584835), 4, 2, 2; (584850), 21, 8, 13; (584851), 7, 2, 2; (584874), 5, 2, 2; (584897), 4, 2, 4; (584913), 4, 2, 4; (584929), 35, 11, 15; (584933), 53, 16, 42; (584934), 22, 10, 29; (584938), 31, 10, 15; (584940), 10, 4, 3; (584941), 5, 2, 2; (584943), 14, 5, 6; (584950), 22, 10, 19; (584969), 6, 2, 2; (585012), 8, 3, 6; (585017), 4, 2, 2; (585020), 4, 2, 2; (585044), 4, 2, 4; (585047), 9, 4, 14; (585052), 4, 2, 2; (585078), 6, 3, 4; (585085), 9, 4, 5; (585089), 8, 4, 8; (585091), 6, 2, 2; (585092), 6, 3, 4; (585104), 4, 1, 0; (585111), 6, 3, 6; (585112), 10, 4, 5; (585113), 10, 5, 8; (585122), 4, 2, 2; (585134), 4, 2, 2; (585138), 12, 5, 13; (585140), 4, 1, 0; (585151), 17, 6, 5; (585167), 4, 2, 2; (585184), 17, 7, 39; (585190), 6, 3, 4; (585192), 4, 2, 2; (585197), 12, 5, 11; (585200), 18, 8, 22; (585203), 4, 2, 2; (585228), 19, 8, 13; (585230), 50, 15, 37; (585232), 13, 6, 10; (585238), 5, 2, 2; (585242), 16, 6, 6; (585254), 10, 4, 8; (585274), 7, 2, 2; (585276), 5, 2, 2; (585302), 4, 2, 2; (585319), 12, 5, 12; (585326), 4, 2, 2; (585328), 8, 4, 8; (585370), 4, 2, 2; (585395), 10, 4, 10; (585406), 10, 5, 10; (585411), 11, 4, 6; (585422), 9, 3, 8; (585458), 6, 2, 1; (585459), 4, 1, 0; (585463), 2, 1, 0; (585467), 4, 2, 2; (585469), 2, 1, 0; (585470), 4, 1, 0; (585472), 2, 1, 0; (585475), 4, 2, 1; (585477), 2, 1, 0; (585478), 11, 4, 8; (585491), 9, 3, 6; (585532), 13, 5, 16; (585534), 4, 2, 2; (585619), 5, 2, 2; (585631), 11, 5, 12; (585641), 4, 2, 2; (585702), 5, 3, 4; (585716), 16, 1, 0; (585745), 4, 1, 0; (585866), 5, 1, 0; *[881466, 72727, 14*, 2010/08/02–2021/09/19]*

I52 Steward Observatory, Mt. Lemmon Station

Observers R. A. Kowalski, B. M. Africano, D. C. Fuls, E. J. Christensen, H. Groeller, J. A. Johnson, G. J. Leonard, R. G. Matheny. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly, B. M. Africano, G. A. Farneth, H. Groeller, T. A. Pruyne, R. E. Hill. 1.0-m reflector + CCD.

2008 RH_{180}, 3, 1, 0; 2013 EA_{12}, 3, 1, 0; 2014 CJ_{35}, 3, 1, 0; 2016 AS_{354} *, 4, 1, 0; 2017 RJ_{17}, 3, 1, 0; (5568), 3, 1, 0; (64779), 4, 1, 0; (109093), 2, 1, 0; (124569), 2, 1, 0; (127255), 3, 1, 0; (146634), 2, 1, 0; (163272), 2, 1, 0; (165159), 2, 1, 0; (167658), 4, 1, 0; (200364), 1, 1, 0; (201009), 3, 1, 0; (205716), 3, 1, 0; (230747), 2, 1, 0; (233653), 3, 1, 0; (274024), 1, 1, 0; (283391), 3, 1, 0; (304119), 1, 1, 0; (312332), 1, 1, 0; (317809), 2, 1, 0; (448058), 2, 1, 0; (514880), 3, 1, 0; (528339), 3, 1, 0; (545824), 4, 1, 0; (570076), 3, 1, 0; *[75, 29, 1*, 2015/09/07–2019/02/09]*

I93 St Pardon de Conques

Observer F. Losse. 0.40-m $f/3.7$ reflector + CCD.

2010 RJ_{53}, 3, 1, 0; 2021 QV_6, 3, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RV_1, 3, 1, 0; 2021 RW_1, 3, 1, 0; 2021 RB_2, 3, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; 2021 RJ_2, 3, 1, 0; 2021 RR_2, 2, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RY_2, 2, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RS_5, 3, 1, 0; 2021 RU_5, 3, 1, 0; 2021 RZ_5, 3, 1, 0; 2021 RB_6, 3, 1, 0; 2021 RG_6, 3, 1, 0; 2021 RH_6, 3, 1, 0; 2021 RJ_6, 3, 1, 0; 2021 RK_6, 3, 1, 0; 2021 RL_6, 3, 1, 0; 2021 RM_6, 3, 1, 0; 2021 RX_6, 3, 1, 0; 2021 RY_6, 3, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RW_7, 3, 1, 0; 2021 RY_7, 2, 1, 0; 2021 RZ_7, 3, 1, 0; 2021 RA_8, 3, 1, 0; 2021 RP_9, 3, 1, 0; 2021 RQ_9, 3, 1, 0; 2021 RV_9, 2, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RC_{10}, 3, 1, 0; 2021 RD_{10}, 3, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RK_{10}, 3, 1, 0; 2021 RL_{10}, 2, 1, 0; 2021 RM_{10}, 3, 1, 0; 2021 RN_{10}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RD_{12}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RJ_{14}, 3, 1, 0; 2021 SA, 3, 1, 0; 2021 SB, 3, 1, 0; 2021 SC, 3, 1, 0; 2021 SD, 3, 1, 0; *[145, 50, 0*, 2021/09/06–2021/09/17]*

J04 ESA Optical Ground Station, Tenerife

Observers P. Ruiz, D. Abreu. Measurers M. Micheli, R. Kresken, D. Föhring, D. Koschny, L. Conversi, M. Busch, E. Schwab, A. Knöfel. 1.0-m $f/4.4$ reflector + CCD. (02)

Observers P. Ruiz, M. Busch, R. Kresken, H. Luethen, D. Abreu. Measurers M. Biesiada, H. Bill, M. Busch, P. Geffert, D. Husar, A. Knöfel, D. Koschny, M. Micheli, R. Reszelewski, E. Schwab, P. Berrett, U. Carsenty, E. Clerkin, R. Jehn, J. Linder, F. Ocana, T. Thommes, M. Tsyhankou, F. Hormuth, A. Drefke, A. Knöfel, R. Kresken, H. Luethen, C. Zorn, P. Schmeer, R. Biros, C. Liefke, G. Lehmann, Y. Walter. 1.0-m $f/4.4$ reflector + CCD. (03)

Observer P. Ruiz. Measurers A. Knöfel, D. Koschny, M. Busch, M. Micheli, D. Föhring, R. Kresken. 1.0-m $f/4.4$ reflector + CCD. (04)

Observer P. Ruiz. Measurers E. Schwab, M. Micheli, D. Koschny, A. Knöfel, M. Busch. 1.0-m $f/4.4$ reflector + CCD. (05)

Observers E. Kuusela, P. Ruiz. Measurers H. Bill, M. Busch, E. Clerkin, R. Jehn, A. Knöfel, D. Koschny, G. Lehmann, J. Linder, M. Micheli, E. Schwab. 1.0-m $f/4.4$ reflector + CCD. (06)

Observers D. Abreu, P. Ruiz. Measurers M. Biesiada, H. Bill, M. Busch, U. Carsenty, F. Hormuth, A. Knöfel, D. Koschny, M. Micheli, J. Rothermel, E. Schwab, S. Shurpakov, M. Tsyhankou, R. Reszelewski, S. Schmalz, T. Thommes, P. Geffert, G. Lehmann, E. Clerkin, R. Kracht, C. Liefke, J. Linder, F. Ocana, P. Schmeer, Y. Walter, P. Wehrle, A. Heller, A. Knöfel, I. Willberger, C. Zorn, C. Busch, R. Furgoni, K. Kida, J. Thommes, R. Stawitzki, J. Jahn, L. Kurtze. 1.0-m $f/4.4$ reflector + CCD. (07)

Observers P. Ruiz, L. Buzzi, F. Luppi. Measurers H. Bill, M. Busch, U. Carsenty, P. Geffert, F. Hormuth, J. Jahn, A. Knöfel, D. Koschny, G. Lehmann, J. Linder, M. Micheli, F. Ocana, P. Schmeer, E. Schwab, S. Shurpakov, Y. Walter, A. K. 1. 0.-m. f. 4. r. +, M. Biesiada, M. Tsyhankou, A. Knöfel, T. Häusler, R. Kracht, C. Liefke, R. Reszelewski, S. Schmalz, A. Heller, R. Kresken, T. Thommes, G. Wollenhaupt, C. Busch, E. Clerkin, J. Volpp, J. Rothermel, R. Furgoni, C. Kunze, R. Stawitzki. 1.0-m $f/4.4$ reflector + CCD. (08)

Observer P. Ruiz. Measurers M. Micheli, R. Kresken, D. Föhring, D. Koschny, L. Conversi. 1.0-m $f/4.4$ reflector + CCD. (10)

{10} 2021 PE_{20}, 3, 1, 0; 2021 QW, 2, 1, 0; 2021 RF, 2, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RJ_1, 3, 1, 0; 2021 RW_1, 5, 2, 1; 2021 RY_1, 3, 1, 0; 2021 RZ_1, 3, 1, 0; 2021 RK_2, 5, 2, 1; *[29, 9, 0*, 2021/09/06–2021/09/07]*

{2} 2007 XK_{11}, 3, 1, 0; 2019 DK, 3, 1, 0; 2019 MT_{26}, 4, 1, 0; 2020 HH_{120}, 3, 1, 0; 2020 PK, 3, 1, 0; 2021 NU_1, 3, 1, 0; 2021 OA_1, 3, 1, 0; 2021 OH_2, 3, 1, 0; 2021 OC_5, 3, 1, 0; 2021 PB_2, 2, 1, 0; 2021 PH_4, 3, 2, 1; 2021 PU_4, 3, 1, 0; 2021 PW_4, 3, 1, 0; 2021 PY_4, 1, 1, 0; 2021 PA_5, 3, 1, 0; 2021 PC_5, 3, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PH_5, 2, 1, 0; 2021 PK_5, 6, 1, 0; 2021 PN_5, 2, 1, 0; 2021 PP_5, 3, 1, 0; 2021 PR_6, 3, 1, 0; 2021 PW_6, 2, 1, 0; 2021 PY_6, 3, 1, 0; 2021 PC_7, 3, 1, 0; 2021 PD_7, 2, 1, 0; 2021 PG_7, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PC_9, 3, 1, 0; 2021 PF_9, 3, 1, 0; 2021 PG_9, 3, 1, 0; 2021 PR_9, 3, 1, 0; 2021 PZ_9, 1, 1, 0; 2021 PB_{10}, 2, 1, 0; 2021 PD_{10}, 2, 1, 0; 2021 QH_1, 5, 2, 1; 2021 QA_2, 6, 2, 2; 2021 QY_3, 2, 2, 1; 2021 QM_5, 3, 1, 0; 2021 RN, 1, 1, 0; 2021 RY, 2, 1, 0; 2021 RA_1, 2, 1, 0; 2021 RK_1, 3, 1, 0; 2021 RT_1, 1, 1, 0; 2021 RD_2, 2, 1, 0; *[125, 45, 0*, 2019/08/27–2021/09/06]*

{3} 1999 PP_9, 3, 1, 0; 1999 SN, 2, 1, 0; 1999 UL_{65}, 2, 1, 0; 2000 OT_{70}, 4, 1, 0; 2000 QV_{248}, 4, 1, 0; 2000 SE_{156}, 4, 1, 0; 2001 DA_{115}, 2, 1, 0; 2001 SS_{183}, 4, 1, 0; 2001 UK_{237}, 2, 1, 0; 2002 PQ_{180}, 2, 1, 0; 2002 QQ_{15}, 3, 1, 0; 2002 QG_{46}, 4, 1, 0; 2002 QR_{97}, 4, 1, 0; 2002 RG_{30}, 4, 1, 0; 2002 RO_{202}, 4, 1, 0; 2002 RX_{276}, 4, 1, 0; 2003 KT_{18}, 4, 1, 0; 2003 QL_{36}, 2, 1, 0; 2003 SP_{379}, 4, 1, 0; 2003 SU_{473}, 3, 1, 0; 2003 TS_{39}, 2, 1, 0; 2003 TN_{60}, 4, 1, 0; 2003 WA_{202}, 4, 1, 0; 2004 CN_{106}, 4, 1, 0; 2004 MD_{10}, 4, 1, 0; 2004 RJ_5, 4, 1, 0; 2004 RO_{91}, 4, 1, 0; 2004 RN_{238}, 2, 1, 0; 2004 SW_{24}, 2, 1, 0; 2004 SQ_{62}, 3, 1, 0; 2004 TE_{121}, 3, 1, 0; 2004 TM_{288}, 4, 1, 0; 2005 BG_{51}, 4, 1, 0; 2005 NR_{132}, 6, 1, 0; 2005 NT_{133}, 4, 1, 0; 2005 PU_{32}, 4, 1, 0; 2005 QT_{39}, 4, 1, 0; 2005 QJ_{200}, 2, 1, 0; 2005 RV_{28}, 2, 1, 0; 2005 RZ_{52}, 2, 1, 0; 2005 SO_{100}, 2, 1, 0; 2005 SB_{304}, 4, 1, 0; 2005 TM_{177}, 3, 1, 0; 2005 TY_{196}, 2, 1, 0; 2005 TG_{208}, 4, 1, 0; 2005 UG_{150}, 2, 1, 0; 2005 UA_{553}, 4, 1, 0; 2005 UP_{553}, 3, 1, 0; 2005 XX_{131}, 4, 1, 0; 2006 BT_{163}, 5, 1, 0; 2006 DA_{220}, 2, 1, 0; 2006 EU_{78}, 2, 1, 0; 2006 OJ_{30}, 4, 1, 0; 2006 QW_9, 4, 1, 0; 2006 QN_{86}, 2, 1, 0; 2006 QC_{206}, 4, 1, 0; 2006 RO_{126}, 4, 1, 0; 2006 SU_{224}, 2, 1, 0; 2006 UB_{364}, 4, 1, 0; 2006 UT_{390}, 3, 1, 0; 2007 BP_{52}, 3, 1, 0; 2007 OB_{11}, 4, 1, 0; 2007 RA_{332}, 4, 1, 0; 2007 TL_{36}, 2, 1, 0; 2007 TG_{47}, 2, 1, 0; 2007 TE_{116}, 3, 1, 0; 2007 TE_{325}, 2, 1, 0; 2007 VT_{13}, 3, 1, 0; 2007 VE_{49}, 4, 1, 0; 2007 VL_{156}, 4, 1, 0; 2007 YR_{41}, 3, 1, 0; 2008 DP_{92}, 4, 1, 0; 2008 ET_{51}, 2, 1, 0; 2008 QM_{49}, 2, 1, 0; 2008 RD_{48}, 4, 1, 0; 2008 RJ_{178}, 4, 1, 0; 2008 SL_{191}, 2, 1, 0; 2008 SX_{340}, 2, 1, 0; 2008 TP_{98}, 2, 1, 0; 2008 TM_{229}, 2, 1, 0; 2008 UB_{42}, 2, 1, 0; 2008 US_{170}, 3, 1, 0; 2008 UH_{207}, 3, 1, 0; 2008 UC_{237}, 2, 1, 0; 2008 VT_8, 2, 1, 0; 2008 VV_{80}, 4, 1, 0; 2008 WL_{143}, 2, 1, 0; 2009 GD_4, 2, 1, 0; 2009 HB_{29}, 2, 1, 0; 2009 HE_{126}, 4, 1, 0; 2009 OU_{26},

2, 1, 0; 2009 ST_{393}, 3, 1, 0; 2009 TC_{57}, 2, 1, 0; 2009 UP_{163}, 3, 1, 0; 2009 UK_{185}, 2, 1, 0; 2009 XV_{27}, 3, 1, 0; 2010 CJ_{64}, 2, 1, 0; 2010 CT_{175}, 2, 1, 0; 2010 CZ_{175}, 6, 2, 1; 2010 DM_{58}, 4, 1, 0; 2010 FB_{36}, 3, 1, 0; 2010 HE_{75}, 3, 1, 0; 2010 HB_{116}, 3, 1, 0; 2010 KY_{63}, 4, 1, 0; 2010 LJ_{85}, 2, 1, 0; 2010 LN_{112}, 4, 1, 0; 2010 LG_{124}, 4, 1, 0; 2010 MA_{42}, 4, 1, 0; 2010 MY_{76}, 4, 1, 0; 2010 ME_{99}, 4, 1, 0; 2010 MO_{109}, 4, 1, 0; 2010 QH, 4, 1, 0; 2010 QO, 4, 1, 0; 2010 QL_4, 3, 1, 0; 2010 RX_{19}, 4, 1, 0; 2010 RU_{29}, 2, 1, 0; 2010 RZ_{95}, 4, 1, 0; 2010 RK_{154}, 4, 1, 0; 2010 RR_{217} *, 3, 1, 0; 2010 TR_{48}, 4, 1, 0; 2010 TP_{163}, 4, 1, 0; 2010 TW_{178}, 2, 1, 0; 2010 TD_{212}, 3, 1, 0; 2010 TF_{227}, 4, 1, 0; 2010 UB_{28}, 3, 1, 0; 2010 VA_{250}, 2, 1, 0; 2011 AX_{98}, 2, 1, 0; 2011 BM_{195}, 2, 1, 0; 2011 GU_{15}, 3, 1, 0; 2011 OD_{11}, 3, 1, 0; 2011 OP_{42}, 3, 1, 0; 2011 OS_{67}, 4, 1, 0; 2011 RR_{21}, 3, 1, 0; 2011 SZ_{128}, 4, 1, 0; 2011 SN_{247}, 3, 1, 0; 2011 SN_{314}, 3, 1, 0; 2011 SU_{334}, 4, 1, 0; 2011 UN_{159}, 4, 1, 0; 2011 WM_{149}, 2, 1, 0; 2011 YR_{10}, 4, 1, 0; 2012 DQ_{14}, 3, 1, 0; 2012 ES_{20}, 4, 1, 0; 2012 HX_4, 2, 1, 0; 2012 LB_{15}, 2, 1, 0; 2012 PP_3, 2, 1, 0; 2012 QG_{55}, 4, 1, 0; 2012 SC_8, 2, 1, 0; 2012 TV_{333}, 4, 1, 0; 2012 UZ_{125}, 3, 1, 0; 2012 YZ_9, 3, 1, 0; 2013 AS_{13}, 2, 1, 0; 2013 BA_{25}, 2, 1, 0; 2013 BR_{39}, 4, 1, 0; 2013 GW_{160}, 3, 1, 0; 2013 JU_{58}, 3, 1, 0; 2013 NX_{36}, 3, 1, 0; 2013 QE_{80}, 2, 1, 0; 2013 RG_9, 3, 1, 0; 2013 RA_{114}, 4, 1, 0; 2013 SF_{67}, 2, 1, 0; 2013 TU_{89}, 4, 1, 0; 2013 TF_{174}, 4, 1, 0; 2013 VJ_{36}, 2, 1, 0; 2013 VL_{64}, 3, 1, 0; 2013 WR_{136}, 2, 1, 0; 2013 XB_{24}, 3, 1, 0; 2013 YB_{90}, 2, 1, 0; 2014 AU_{36}, 2, 1, 0; 2014 BB_{48}, 2, 1, 0; 2014 BM_{81}, 2, 1, 0; 2014 DG_{110}, 2, 1, 0; 2014 DV_{185}, 2, 1, 0; 2014 EX_{95}, 3, 1, 0; 2014 EG_{244}, 2, 1, 0; 2014 GT_{83}, 2, 1, 0; 2014 HD_9, 2, 1, 0; 2014 KG_{42}, 4, 1, 0; 2014 LU_{33}, 3, 1, 0; 2014 MM_{88}, 2, 1, 0; 2014 NC_{75}, 4, 1, 0; 2014 OC_{97}, 4, 1, 0; 2014 OH_{98}, 3, 1, 0; 2014 OL_{99}, 3, 1, 0; 2014 OC_{356}, 3, 1, 0; 2014 PO_{45}, 2, 1, 0; 2014 PP_{65}, 3, 1, 0; 2014 PZ_{94}, 4, 1, 0; 2014 QL_{61}, 4, 1, 0; 2014 QV_{213}, 4, 1, 0; 2014 QA_{338}, 4, 1, 0; 2014 QX_{350}, 3, 1, 0; 2014 QS_{381}, 2, 1, 0; 2014 QY_{429}, 3, 1, 0; 2014 QV_{548}, 4, 1, 0; 2014 RS_{85}, 2, 1, 0; 2014 SA_{63}, 3, 1, 0; 2014 SK_{195}, 3, 1, 0; 2014 ST_{402}, 2, 1, 0; 2014 TB_{51}, 4, 1, 0; 2014 UC_{23}, 4, 1, 0; 2014 UV_{100}, 2, 1, 0; 2014 UY_{222}, 4, 1, 0; 2014 WG_{28}, 4, 1, 0; 2014 WO_{112}, 3, 1, 0; 2014 WK_{162}, 4, 1, 0; 2014 WZ_{414}, 3, 1, 0; 2015 BH_{64}, 2, 1, 0; 2015 BT_{310}, 4, 1, 0; 2015 BQ_{405}, 3, 1, 0; 2015 DK_{96}, 2, 1, 0; 2015 FQ_{100}, 2, 1, 0; 2015 FZ_{149}, 4, 1, 0; 2015 FY_{186}, 4, 1, 0; 2015 FL_{214}, 3, 1, 0; 2015 FF_{258}, 4, 1, 0; 2015 FW_{321}, 2, 1, 0; 2015 FM_{336}, 3, 1, 0; 2015 FK_{388}, 4, 1, 0; 2015 GC_{29}, 2, 1, 0; 2015 GJ_{44}, 3, 1, 0; 2015 HM_{122}, 2, 1, 0; 2015 HU_{176}, 3, 1, 0; 2015 JL_{14}, 4, 1, 0; 2015 KB_{135}, 2, 1, 0; 2015 RX_{15}, 4, 1, 0; 2015 RX_{311}, 2, 1, 0; 2015 TW_{395}, 4, 1, 0; 2015 VF_{120}, 3, 1, 0; 2016 AK_{217}, 2, 1, 0; 2016 CL_{172}, 3, 1, 0; 2016 CG_{205}, 2, 1, 0; 2016 ER_{20}, 2, 1, 0; 2016 EJ_{70}, 3, 1, 0; 2016 GV_{56}, 2, 1, 0; 2016 GE_{227}, 3, 1, 0; 2016 GU_{258}, 2, 1, 0; 2016 JZ_{42}, 4, 1, 0; 2016 JV_{52}, 3, 1, 0; 2016 KP_9, 2, 1, 0; 2016 LM_{12}, 6, 2, 1; 2016 LE_{33}, 4, 1, 0; 2016 NK_{68}, 2, 1, 0; 2016 NS_{86}, 4, 1, 0; 2016 NC_{112}, 3, 1, 0; 2016 PZ_{78}, 4, 1, 0; 2016 PJ_{125}, 3, 1, 0; 2016 PL_{157}, 2, 1, 0; 2016 PU_{213}, 3, 1, 0; 2016 QT_1, 4, 1, 0; 2016 QT_{30}, 4, 1, 0; 2016 RN_4, 2, 1, 0; 2016 RX_{24}, 4, 1, 0; 2016 RZ_{73}, 3, 1, 0; 2016 RW_{78}, 2, 1, 0; 2016 SO_{75}, 3, 1, 0; 2016 TX_{30}, 2, 1, 0; 2016 TA_{35}, 3, 1, 0; 2016 TH_{38}, 4, 1, 0; 2016 TT_{53}, 4, 1, 0; 2016 TX_{77}, 2, 1, 0; 2016 TK_{170}, 2, 1, 0; 2016 TS_{170}, 4, 1, 0; 2016 UR_{87}, 2, 1, 0; 2016 UR_{146}, 3, 1, 0; 2016 UM_{270}, 4, 1, 0; 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(419956), 3, 1, 0; (421034), 4, 1, 0; (422049), 4, 1, 0; (423218), 3, 1, 0; (424078), 4, 1, 0; (425564), 4, 1, 0; (426365), 4, 1, 0; (426416), 4, 1, 0; (426758), 4, 1, 0; (426866), 4, 1, 0; (426900), 4, 1, 0; (428250), 2, 1, 0; (428706), 4, 1, 0; (428725), 2, 1, 0; (428891), 2, 1, 0; (429632), 3, 1, 0; (430138), 4, 1, 0; (430329), 4, 1, 0; (430520), 4, 1, 0; (430528), 4, 1, 0; (430656), 2, 1, 0; (430995), 3, 1, 0; (431003), 2, 1, 0; (431084), 3, 1, 0; (431817), 4, 1, 0; (431858), 4, 1, 0; (432149), 4, 1, 0; (433096), 3, 1, 0; (433354), 2, 1, 0; (434080), 2, 1, 0; (434441), 4, 1, 0; (436314), 2, 1, 0; (436607), 3, 1, 0; (436635), 4, 1, 0; (436692), 3, 1, 0; (437674), 4, 1, 0; (437693), 4, 1, 0; (437735), 4, 1, 0; (438348), 2, 1, 0; (438624),

4, 1, 0; (439750), 3, 1, 0; (441779), 2, 1, 0; (441961), 4, 1, 0; (448543), 3, 1, 0; (449111), 2, 1, 0; (450720), 2, 1, 0; (453268), 4, 1, 0; (454279), 4, 1, 0; (455114), 4, 1, 0; (456033), 2, 1, 0; (456308), 3, 1, 0; (456745), 4, 1, 0; (456806), 4, 1, 0; (456831), 4, 1, 0; (457246), 4, 1, 0; (457399), 4, 1, 0; (457659), 2, 1, 0; (459067), 2, 1, 0; (460211), 4, 1, 0; (460444), 3, 1, 0; (461462), 4, 1, 0; (461701), 3, 1, 0; (462039), 2, 1, 0; (462375), 2, 1, 0; (462633), 4, 1, 0; (463203), 4, 1, 0; (463810), 3, 1, 0; (463954), 4, 1, 0; (464013), 2, 1, 0; (464519), 3, 1, 0; (465048), 4, 1, 0; (465069), 4, 1, 0; (465149), 2, 1, 0; (465419), 4, 1, 0; (466173), 4, 1, 0; (467024), 4, 1, 0; (469454), 3, 1, 0; (469626), 3, 1, 0; (470008), 4, 1, 0; (470655), 3, 1, 0; (471838), 3, 1, 0; (473758), 2, 1, 0; (473794), 2, 1, 0; (474795), 2, 1, 0; (474846), 3, 1, 0; (474861), 2, 1, 0; (475277), 3, 1, 0; (475628), 2, 1, 0; (476389), 3, 1, 0; (477210), 4, 1, 0; (477623), 2, 1, 0; (477636), 4, 1, 0; (478147), 2, 1, 0; (480593), 4, 1, 0; (481932), 2, 1, 0; (483416), 4, 1, 0; (488790), 3, 1, 0; (490935), 4, 1, 0; (491558), 4, 1, 0; (491575), 4, 1, 0; (492203), 2, 1, 0; (492353), 3, 1, 0; (492428), 3, 1, 0; (492655), 7, 2, 1; (494764), 4, 1, 0; (494828), 4, 1, 0; (494831), 4, 1, 0; (495869), 4, 1, 0; (496134), 2, 1, 0; (496216), 4, 1, 0; (496973), 3, 1, 0; (497129), 2, 1, 0; (497181), 3, 1, 0; (497345), 3, 1, 0; (497358), 4, 1, 0; (497385), 4, 1, 0; (497678), 3, 1, 0; (497691), 2, 1, 0; (497756), 4, 1, 0; (497885), 4, 1, 0; (498031), 2, 1, 0; (498584), 2, 1, 0; (498759), 3, 1, 0; (499161), 3, 1, 0; (499807), 3, 1, 0; (502510), 3, 1, 0; (502621), 3, 1, 0; (503658), 3, 1, 0; (503739), 3, 1, 0; (503782), 2, 1, 0; (503939), 3, 1, 0; (503961), 3, 1, 0; (504004), 2, 1, 0; (504611), 3, 1, 0; (504786), 3, 1, 0; (505154), 4, 1, 0; (505200), 4, 1, 0; (505266), 2, 1, 0; (505394), 2, 1, 0; (505830), 4, 1, 0; (505861), 2, 1, 0; (506392), 4, 1, 0; (506567), 4, 1, 0; (506626), 2, 1, 0; (507413), 4, 1, 0; (507473), 4, 1, 0; (508595), 4, 1, 0; (509694), 3, 1, 0; (510113), 3, 1, 0; (510578), 4, 1, 0; (512737), 3, 1, 0; (512972), 4, 1, 0; (519531), 2, 1, 0; (519557), 3, 1, 0; (519944), 4, 1, 0; (520053), 4, 1, 0; (520096), 2, 1, 0; (522654), 4, 1, 0; (522950), 2, 1, 0; (522968), 4, 1, 0; (524442), 4, 1, 0; (526498), 4, 1, 0; (526652), 4, 1, 0; (526667), 1, 1, 0; (526877), 4, 1, 0; (527517), 3, 1, 0; (527917), 4, 1, 0; (528280), 4, 1, 0; (528607), 4, 1, 0; (529867), 2, 1, 0; (530252), 4, 1, 0; (530719), 3, 1, 0; (533038), 4, 1, 0; (533304), 4, 1, 0; (533495), 4, 1, 0; (533606), 2, 1, 0; (533740), 3, 1, 0; (534139), 3, 1, 0; (534454), 3, 1, 0; (535058), 2, 1, 0; (536785), 4, 1, 0; (537251), 2, 1, 0; (537483), 4, 1, 0; (538086), 4, 1, 0; (539010), 2, 1, 0; (539297), 2, 1, 0; (539597), 4, 1, 0; (539645), 3, 1, 0; (541011), 3, 1, 0; (542493), 4, 1, 0; (542931), 4, 1, 0; (543364), 4, 1, 0; (543654), 4, 1, 0; (544033), 4, 1, 0; (545439), 3, 1, 0; (545482), 2, 1, 0; (546035), 4, 1, 0; (552628), 4, 1, 0; (552819), 3, 1, 0; (559546), 4, 1, 0; (564171), 4, 1, 0; (566122), 4, 1, 0; (567196), 2, 1, 0; (567338), 3, 1, 0; (567817), 4, 1, 0; (568106), 4, 1, 0; (568321), 3, 1, 0; (568353), 2, 1, 0; (568358), 2, 1, 0; (568913), 2, 1, 0; (569013), 4, 1, 0; (569153), 2, 1, 0; (569250), 2, 1, 0; (569252), 3, 1, 0; (569277), 2, 1, 0; (569286), 2, 1, 0; (569347), 3, 1, 0; (569352), 2, 1, 0; (569408), 2, 1, 0; (569414), 2, 1, 0; (569467), 4, 1, 0; (569636), 3, 1, 0; (569680), 4, 1, 0; (569962), 4, 1, 0; (570243), 4, 1, 0; (570503), 4, 1, 0; (570609), 3, 1, 0; (570706), 2, 1, 0; (570887), 2, 1, 0; (571002), 1, 1, 0; (571206), 2, 1, 0; (571584), 3, 1, 0; (571682), 3, 1, 0; (571732), 4, 1, 0; (572088), 2, 1, 0; (572500), 2, 1, 0; (572517), 4, 1, 0; (572639), 3, 1, 0; (572801), 2, 1, 0; (572885), 4, 1, 0; (573409), 4, 1, 0; (573774), 2, 1, 0; (573953), 3, 1, 0; (573962), 2, 1, 0; (574134), 4, 1, 0; (574197), 4, 1, 0; (574205), 3, 1, 0; (574218), 3, 1, 0; (574445), 3, 1, 0; (574520), 4, 1, 0; (574600), 2, 1, 0; (575381), 4, 1, 0; (575470), 2, 1, 0; (575720), 4, 1, 0; (576226), 2, 1, 0; (576230), 4, 1, 0; (576375), 2, 1, 0; (576464), 2, 1, 0; (576521), 2, 1, 0; (577316), 4, 1, 0; (577318), 4, 1, 0; (577333), 4, 1, 0; (577402), 2, 1, 0; (577567), 3, 1, 0; (577722), 3, 1, 0; (577727), 4, 1, 0; (578272), 3, 1, 0; (578452), 3, 1, 0; (578616), 2, 1, 0; (578692), 2, 1, 0; (578722), 2, 1, 0; (579325), 4, 1, 0; (579345), 4, 1, 0; (579471), 2, 1, 0; (579780), 3, 1, 0; (580400), 3, 1, 0; (580412), 4, 1, 0; (580485), 3, 1, 0; (580723), 2, 1, 0; (581078), 3, 1, 0; (581299), 2, 1, 0; (582363), 3, 1, 0; (582402), 3, 1, 0; (583389), 2, 1, 0; (583862), 3, 1, 0; (583975), 4, 1, 0; (584119), 2, 1, 0; (584207), 2, 1, 0; (584220), 2, 1, 0; (584595), 4, 1, 0; (584726), 2, 1, 0; (584874), 4, 1, 0; (585064), 2, 1, 0; (585481), 4, 1, 0; *[9191, 2610, 2∗, 2010/09/11–2021/09/07]*

{4} 2021 QV_6, 3, 1, 0; 2021 RU_1, 2, 1, 0; 2021 RV_1, 3, 1, 0; 2021 RJ_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; *[14, 5, 0∗, 2021/09/06]*

{5} 2018 PU_{21}, 6, 2, 1; *[6, 1, 0∗, 2021/08/10–2021/08/11]*

{6} (241118), 1, 1, 0; *[1, 1, 0∗, 2020/07/22]*

{7} 1995 UP_{76}, 3, 1, 0; 2003 SX_{21}, 3, 1, 0; 2007 VP_{378}, 3, 1, 0; 2010 QS_8 ∗, 3, 1, 0; 2010 VM_{150}, 4, 1, 0; 2011 SA_{335}, 3, 1, 0; 2011 UP_{216}, 2, 1, 0; 2011 YZ_{95} ∗, 3, 1, 0; 2013 LF_{44}, 3, 1, 0; 2013 RX_8, 3, 1, 0; 2013 RP_{155}, 3, 1, 0; 2014 EA_{97}, 3, 1, 0; 2014 EA_{257} ∗, 3, 1, 0; 2014 OY_{455} ∗, 3, 1, 0; 2014 OK_{457} ∗, 6, 2, 1; 2014 QW_{558}, 3, 1, 0; 2014 QR_{559}, 3, 1, 0; 2014 QT_{561}, 3, 1, 0; 2014 SK_{403}, 3, 1, 0; 2015 FP_{449}, 2, 1, 0; 2015 TB_{453}, 3, 1, 0; 2016 NZ_{152}, 2, 1, 0; 2016 QT_{131}, 3, 1, 0; 2017 SY_{272} ∗, 2, 1, 0; 2018 LP_{31}, 4, 1, 0; 2019 GY_{116}, 3, 1, 0; 2019 OG_{38}, 3, 1, 0; 2019 XO_{13}, 4, 1, 0; 2020 GU_{27}, 2, 1, 0; 2020 KF_{39}, 3, 1, 0; 2021 PG_{73}, 4, 1, 0; (44373), 4, 1, 0; (56103), 1, 1, 0; (59846), 2, 1, 0; (131533), 2, 1, 0; (161274), 1, 1, 0; (188164), 4, 1, 0; (192296), 3, 1, 0; (223839), 1, 1, 0; (232367), 1, 1, 0; (240807), 1, 1, 0; (280750), 2, 1, 0; (312615), 1, 1, 0; (323362), 1, 1, 0; (365327), 2, 1, 0; (405537), 1, 1, 0; (406371), 1, 1, 0; (490320), 1, 1, 0; (492897), 1, 1, 0; (518097), 3, 1, 0; (518781), 1, 1, 0; *[129, 51, 6∗, 2010/08/31–2020/03/29]*

{8} 2002 GG_{198}, 3, 1, 0; 2004 CZ_{133}, 2, 1, 0; 2007 LX_{23}, 4, 1, 0; 2007 TD_{499}, 2, 1, 0; 2008 DV_{72}, 3, 1, 0; 2008 DA_{99}, 3, 1, 0; 2008 WJ_{102}, 2, 1, 0; 2010 HX_{130}, 6, 2, 1; 2010 MO_{99}, 3, 1, 0; 2011 CH_{141}, 2, 1, 0; 2011 GP_{105}, 4, 1, 0; 2012 FT_{17}, 3, 1, 0; 2012 PQ_{58}, 3, 1, 0; 2012 QG_{71}, 3, 1, 0; 2012 RY_{48} ∗, 2, 1, 0; 2012 TP_{377}, 3, 1, 0; 2012 VL_{136} ∗, 4, 1, 0; 2013 GC_{161}, 3, 1, 0; 2013 GD_{161} ∗, 3, 1, 0; 2013 PQ_{119}, 3, 1, 0; 2013 RP_{155}, 3, 1, 0; 2014 AM_{75}, 3, 1, 0; 2014 JX_{124}, 3, 1, 0; 2014 OE_{156}, 2, 1, 0; 2015 BZ_{299}, 3, 1, 0; 2015 FF_{247}, 3, 1, 0; 2015 RC_{345}, 2, 1, 0; 2015 TN_{453}, 3, 1, 0; 2015 XY_{478}, 3, 1, 0; 2016 TJ_{173}, 3, 1, 0; 2017 NK_{21}, 3, 1, 0; 2017 OF_{125}, 2, 1, 0; 2017 SB_{267}, 3, 1, 0; 2017 SH_{273}, 3, 1, 0; 2017 US_{154}, 3, 1, 0; 2017 WW_{66}, 3, 1, 0; 2018 JZ_{10}, 3, 1, 0; 2018 NW_{37}, 3, 1, 0; 2019 NU_{73}, 4, 1, 0; 2019 QT_{72}, 4, 1, 0; 2019 RO_{74}, 3, 1, 0; 2019 SN_{184}, 3, 1, 0; 2021 PR_{54}, 3, 1, 0; 2021 PV_{54}, 3, 1, 0; 2021 QG_{10}, 3, 1, 0; (41700), 4, 1, 0; (49027), 4, 1, 0; (257826), 4, 1, 0; (285539), 1, 1, 0; (312066), 1, 1, 0; (398679), 1, 1, 0; (407317), 1, 1, 0; (475609), 2, 1, 0; (509637), 3, 1, 0; (558256), 2, 1, 0; (574481), 3, 1, 0; *[161, 56, 3∗, 2010/08/18–2020/02/29]*

J13 La Palma-Liverpool Telescope

Observers M. Altmann, I. Steele, J. Marchant. Measurers C. Barache, S. Bouquillon, T. Carlucci, F. Taris. 2.0-m $f/10$ Ritchey-Chrétien + CCD. (06)

Observer C. Copperwheat. Measurers J. N. Purdum, B. T. Bolin. 2.0-m $f/10$ Ritchey-Chrétien + CCD. (10)

{10} 2010 RJ_{53}, 3, 1, 0; 2021 RT_1, 3, 1, 0; *[6, 2, 0∗, 2021/09/06–2021/09/10]*

{6} 2017 FT_{78}, 16, 1, 0; (576046), 12, 1, 0; *[28, 2, 0∗, 2014/10/31–2015/11/17]*

J22 Tacande Observatory, La Palma

Observer K. Hills. 0.5-m $f/2.9$ astrograph + CCD.

2021 QC_1, 3, 1, 0; *[3, 1, 0∗, 2021/08/26]*

J43 Oukaïmeden Observatory, Marrakech

Observers C. Rinner, M. Ory, C. R. L. Blind. Measurers C. Rinner, M. Ory, C. Demeautis. 0.5-m $f/3$ reflector + CCD.

2006 US_{391}, 4, 1, 0; 2009 VV_{130}, 4, 1, 0; 2009 WB_{272}, 4, 1, 0; 2010 HB_{64}, 4, 1, 0; 2010 SN_{61}, 4, 1, 0; 2012 TT_{377}, 4, 1, 0; 2013 AG_{204}, 4, 1, 0; 2014 OF_{132}, 3, 1, 0; 2015 NP_5, 4, 1, 0; 2016 ER_{309}, 6, 2, 1; 2016 PW_{214}, 4, 1, 0; 2016 SW_{104}, 4, 1, 0; 2016 UL_{270}, 4, 1, 0; 2017 KE_{43}, 4, 1, 0; 2017 QX_{68}, 4, 1, 0; 2021 DC_{14}, 3, 1, 0; (2332), 2, 1, 0; (5107), 3, 1, 0; (9897), 3, 1, 0; (15951), 3, 1, 0; (17016), 3, 1, 0; (17947), 3, 1, 0; (20204), 2, 1, 0; (22547), 3, 1, 0; (30424), 3, 1, 0; (31792), 3, 1, 0; (31930), 3, 1, 0; (33181), 1, 1, 0; (34327), 3, 1, 0; (34363), 3, 1, 0; (35233), 3, 1, 0; (43036), 4, 1, 0; (44957), 3, 1, 0; (46221), 3, 1, 0; (47432), 3, 1, 0; (50841), 3, 1, 0; (53289), 3, 1, 0; (64086), 4, 1, 0; (64104), 2, 1, 0; (64726), 4, 1, 0; (68343), 4, 1, 0; (72170), 3, 1, 0; (74577), 3, 1, 0; (76747), 3, 1, 0; (83314), 4, 1, 0; (84631), 4, 1, 0; (85991), 4, 1, 0; (87897), 4, 1, 0; (90263), 3, 1, 0; (94460), 3, 1, 0; (99911), 1, 1, 0; (110718), 3, 1, 0; (114650), 2, 1, 0; (117687), 4, 1, 0; (123020), 3, 1, 0; (123650), 1, 1, 0; (129545), 3, 1, 0; (142333), 4, 1, 0; (155365), 3, 1, 0; (162010), 4, 1, 0; (174650), 3, 1, 0; (182461), 3, 1, 0; (199348), 3, 1, 0; (204208), 4, 1, 0; (208595), 1, 1, 0; (227437), 3, 1, 0; (231473), 3, 1, 0; (250480), 3, 1, 0; (259975), 3, 1, 0; (262984), 3, 1, 0; (285067), 1, 1, 0; (343001), 3, 1, 0; (346276), 4, 1, 0; (393377), 4, 1, 0; (400855), 3, 1, 0; (417919), 2, 1, 0; (463750), 3, 1, 0; (527347), 4, 1, 0; (555620), 3, 1, 0; (581263), 3, 1, 0; *[256, 80, 0∗, 2011/11/26–2021/03/14]*

J57 Centro Astronómico Alto Turia, Valencia

Observers A. Fornas, G. Fornas. Measurers A. Fornas, G. Fornas, E. Arce, V. Mas. 0.43-m $f/6.8$ reflector + CCD, 0.41-m $f/6$ Ritchey-Chrétien + CCD, 0.41-m $f/6.0$ Ritchey-Chrétien + CCD.

2021 RL_3, 3, 1, 0; 2021 SG, 9, 2, 1; 2021 SN, 5, 2, 1; (21765), 3, 1, 0; (31678), 3, 1, 0; (38398), 3, 1, 0; (61737), 3, 1, 0; (93030), 3, 1, 0; (242709), 3, 1, 0; (336679), 3, 1, 0; (571609), 2, 1, 0; *[40, 11, 0∗, 2021/09/08–2021/09/18]*

J69 North Observatory, Clanfield

Observer D. Briggs. 0.3-m $f/5.4$ Newtonian reflector + CCD, 0.41-m $f/4.5$ Newtonian reflector + CCD.

2011 UC_{292}, 14, 2, 1; 2019 NC_1, 7, 2, 2; 2019 UD_4, 7, 2, 3; 2021 CH_2, 4, 1, 0; 2021 PW_4, 2, 1, 0; 2021 QC_1, 7, 2, 2; 2021 QH_1, 4, 1, 0; 2021 QB_3, 16, 2, 1; 2021 RA, 11, 2, 1; 2021 RF, 4, 1, 0; 2021 RH, 10, 2, 1; 2021 RB_1, 4, 1, 0; 2021 RG_2, 6, 1, 0; 2021 RH_2, 4, 1, 0; 2021 RP_2, 6, 1, 0; 2021 RQ_9, 4, 1, 0; *[110, 16, 0∗, 2021/08/10–2021/09/16]*

J75 OAM Observatory, La Sagra
Observers S. Sanchez, J. Nomen, R. Stoss, J. Rodriguez, A. Cikota, S. Cikota, J. L. Ortiz, N. Morales, M. Hurtado, W. K. Y. Yeung, J. A. Jaume, P. Rios, F. Serra. 0.45-m $f/2.8$ reflector + CCD. (03)

{3} 2003 KV_{31}, 3, 1, 0; 2003 QT_{125}, 3, 1, 0; 2004 TM_{288}, 3, 1, 0; 2008 KF_{49}, 3, 1, 0; 2008 QX_{51} *, 3, 1, 0; 2010 QS_8, 3, 1, 0; 2010 SR_{60}, 3, 1, 0; 2015 TZ_{190}, 3, 1, 0; 2016 ES_{309}, 3, 1, 0; 2016 WG_{74}, 3, 1, 0; 2017 FK_{198}, 3, 1, 0; 2017 PF_{45}, 2, 1, 0; 2020 JT_{14}, 3, 1, 0; (570076), 3, 1, 0; *[41, 14, 1*, 2008/07/27–2011/08/27]*

J95 Great Shefford
Observer P. Birtwhistle. 0.41-m $f/6.3$ Schmidt-Cassegrain + CCD.

2000 CG_{155}, 4, 1, 0; 2017 GL_7, 4, 1, 0; 2021 PT, 4, 1, 0; 2021 PF_5, 2, 1, 0; 2021 PM_5, 5, 2, 3; 2021 PD_7, 2, 1, 0; 2021 PB_9, 2, 1, 0; 2021 PC_{10}, 2, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 PJ_{23}, 3, 1, 0; 2021 PZ_{40}, 2, 1, 0; 2021 QA, 4, 1, 0; 2021 QC, 7, 2, 3; 2021 QW, 3, 1, 0; 2021 QA_1, 4, 1, 0; 2021 QC_1, 3, 1, 0; 2021 QE_1, 8, 2, 1; 2021 QH_1, 4, 1, 0; 2021 QM_1, 5, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QS_1, 6, 2, 1; 2021 QB_3, 9, 1, 0; 2021 RA, 8, 2, 3; 2021 RC, 3, 1, 0; 2021 RH, 4, 1, 0; 2021 RA_1, 2, 1, 0; 2021 RB_1, 8, 2, 1; 2021 RN_1, 4, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RG_2, 8, 2, 1; 2021 RH_2, 4, 1, 0; 2021 RJ_2, 2, 1, 0; 2021 RP_2, 8, 1, 0; 2021 RS_2, 14, 1, 0; 2021 RX_2, 7, 2, 1; 2021 RF_3, 4, 1, 0; 2021 RG_3, 4, 1, 0; 2021 RP_3, 4, 1, 0; 2021 RQ_3, 3, 1, 0; 2021 RQ_9, 9, 1, 0; 2021 RD_{20}, 4, 1, 0; 2021 SA, 4, 1, 0; 2021 SB, 3, 1, 0; 2021 SC, 2, 1, 0; 2021 SD, 4, 1, 0; 2021 SE, 3, 1, 0; 2021 SF, 3, 1, 0; 2021 SG, 6, 2, 1; 2021 SH, 5, 1, 0; 2021 SJ, 2, 1, 0; 2021 SM, 4, 1, 0; 2021 SO, 4, 1, 0; (22947), 3, 1, 0; (44267), 3, 1, 0; (62882), 4, 1, 0; (70583), 3, 1, 0; (72732), 4, 1, 0; (99218), 3, 1, 0; (99237), 4, 1, 0; (106635), 3, 1, 0; (234096), 4, 1, 0; (330047), 2, 1, 0; (581493), 4, 1, 0; *[269, 63, 0*, 2021/08/10–2021/09/18]*

K00 Hanau
Observer A. Schuetze. 0.15-m $f/5.7$ refractor + CCD.

(1474), 6, 2, 1; (1943), 6, 2, 1; (4232), 6, 2, 1; (9084), 6, 2, 1; (26385), 9, 3, 2; (33316), 6, 2, 1; (78043), 6, 2, 1; (187877), 9, 3, 2; (188459), 6, 2, 1; *[60, 9, 0*, 2021/09/02–2021/09/04]*

K14 Observatorio de Sencelles
Observer M. Morales. 0.25-m $f/4$ reflector + CCD.

2021 LQ_{24}, 5, 1, 0; 2021 MG_1, 21, 2, 12; *[26, 2, 0*, 2021/08/16–2021/09/11]*

K19 PASTIS Observatory, Banon
Observer C. Demeautis. 0.16-m $f/3.3$ reflector + CCD.

2019 UD_4, 3, 1, 0; 2020 PP, 5, 2, 18; 2021 MG_1, 2, 1, 0; 2021 PJ, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 PJ_1, 2, 1, 0; 2021 QA, 2, 1, 0; 2021 SG, 15, 1, 0; (1101), 3, 1, 0; (3151), 3, 1, 0; (3728), 3, 1, 0; (4277), 3, 1, 0; (10497), 3, 1, 0; (11465), 3, 1, 0; (11511), 3, 1, 0; (12060), 3, 1, 0; (12102), 3, 1, 0; (14177), 2, 1, 0; (15419), 3, 1, 0; (16592), 3, 1, 0; (17482), 3, 1, 0; (18000), 3, 1, 0; (20150), 3, 1, 0; (21555), 3, 1, 0; (26104), 3, 1, 0; (29170), 3, 1, 0; (32237), 3, 1, 0; (33468), 3, 1, 0; (36106), 2, 1, 0; (37377), 3, 1, 0; (38858), 2, 1, 0; (40677), 2, 1, 0; (43552), 3, 1, 0; (44262), 3, 1, 0; (46366), 3, 1, 0; (54280), 3, 1, 0; (54663), 3, 1, 0; (57125), 2, 1, 0; (58919), 2, 1, 0; (64220), 3, 1, 0; (65870), 3, 1, 0; (66725), 3, 1, 0; (67437), 3, 1, 0; (68023), 3, 1, 0; (82310), 3, 1, 0; (87592), 3, 1, 0; (93403), 3, 1, 0; (93419), 2, 1, 0; (101744), 3, 1, 0; (103390), 3, 1, 0; (109323), 3, 1, 0; (116820), 2, 1, 0; (117904), 3, 1, 0; (121108), 2, 1, 0; (121224), 3, 1, 0; (140913), 3, 1, 0; (178688), 3, 1, 0; (200076), 3, 1, 0; (205165), 3, 1, 0; (219558), 1, 1, 0; (239541), 3, 1, 0; (267197), 3, 1, 0; (267203), 3, 1, 0; (267317), 3, 1, 0; (302037), 3, 1, 0; (310406), 3, 1, 0; (313921), 3, 1, 0; (318029), 2, 1, 0; (332146), 3, 1, 0; (337248), 3, 1, 0; (405508), 3, 1, 0; *[212, 71, 0*, 2021/08/12–2021/09/17]*

K38 M57 Observatory, Saltrio
Observer G. Baj. 0.35-m $f/5.6$ Ritchey-Chrétien + CCD.

2004 XJ_{29}, 2, 1, 0; 2008 CD_6, 3, 1, 0; 2021 MG_1, 5, 1, 0; 2021 OZ, 3, 1, 0; 2021 PJ, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 PJ_1, 3, 1, 0; 2021 PO_2, 3, 1, 0; 2021 PW_4, 4, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PU_9, 3, 1, 0; 2021 PJ_{27}, 2, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QP, 2, 1, 0; 2021 QK_1, 3, 1, 0; 2021 QB_3, 4, 1, 0; 2021 QN_3, 3, 1, 0; 2021 RH, 2, 1, 0; (250098), 5, 1, 0; *[59, 19, 0*, 2021/08/08–2021/09/03]*

K40 Altdorf
Observer S. Beck. 0.2-m $f/2.8$ Newtonian reflector + CCD.

2021 QB_3, 4, 1, 0; *[4, 1, 0*, 2021/09/03]*

K41 Vegaquattro Astronomical Obs., Novi Ligure
Observer V. Luna. 0.3-m Schmidt-Cassegrain + CCD.

(285856), 3, 1, 0; *[3, 1, 0*, 2019/04/05]*

K42 Knielingen
Observer U. Baron.

(276), 3, 1, 0; (478), 5, 1, 0; (904), 2, 1, 0; (1794), 5, 1, 0; (4071), 2, 1, 0; (7151), 3, 1, 0; (7603), 3, 1, 0; (29220), 2, 1, 0; (33300), 3, 1, 0; (36906), 5, 1, 0; (48323), 3, 1, 0; (119847), 3, 1, 0; (146133), 3, 1, 0; (163307), 3, 1, 0; *[45, 14, 0*, 2021/07/22–2021/09/07]*

K47 BSCR Observatory, Santa Maria a Monte
Observer M. Bachini. 0.25-m $f/7$ reflector + CCD.

(12), 3, 1, 0; *[3, 1, 0*, 2021/08/11]*

K51 Osservatorio del Celado, Castello Tesino
Observers G. Favero, R. Furgoni, M. Campestrin. Measurers R. Furgoni, M. Campestrin. 0.80-m $f/4$ reflector + CCD.

2005 CP_{72}, 3, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PG_{10}, 3, 1, 0; 2021 PJ_{10}, 3, 1, 0; 2021 PJ_{27}, 3, 1, 0; 2021 QP, 3, 1, 0; 2021 QJ_4, 3, 1, 0; 2021 QB_5, 4, 1, 0; 2021 RH, 3, 1, 0; 2021 RK, 3, 1, 0; 2021 RZ, 3, 1, 0; 2021 RK_4, 4, 1, 0; 2021 RR_4, 3, 1, 0; 2021 RW_4, 3, 1, 0; (30617), 3, 1, 0; (70134), 3, 1, 0; (166642), 3, 1, 0; (179309), 3, 1, 0; (311231), 3, 1, 0; (342838), 3, 1, 0; (427115), 3, 1, 0; (483127), 3, 1, 0; *[68, 22, 0*, 2021/08/09–2021/09/09]*

K59 Elsterland Observatory, Jeßnigk
Observers M. Fiedler, M. Moeckel. Measurer M. Fiedler. 0.38-m $f/4.4$ reflector + CCD.

2019 SE_{180}, 4, 1, 0; *[4, 1, 0*, 2014/09/27]*

K61 Rokycany Observatory
Observer M. Adamovsky. 0.51-m $f/6.8$ reflector + CCD.

2021 MG_1, 3, 1, 0; 2021 RG_2, 4, 1, 0; 2021 RU_3, 3, 1, 0; *[10, 3, 0*, 2021/09/08]*

K62 Teplice Observatory
Observer Z. Moravec. 0.43-m $f/4.5$ reflector + CCD.

2021 RA, 18, 1, 0; 2021 RF, 4, 1, 0; 2021 RH, 4, 1, 0; *[26, 3, 0*, 2021/09/02–2021/09/04]*

K63 G. Pascoli Observatory, Castelvecchio Pascoli
Observer R. Bacci. 0.41-m $f/3.2$ Newtonian reflector + CCD.

2021 QA, 3, 1, 0; 2021 RA, 3, 1, 0; 2021 RH, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 4, 1, 0; 2021 RC_{10}, 9, 2, 1; 2021 RU_{10}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RL_{14}, 2, 1, 0; *[39, 11, 0*, 2021/08/17–2021/09/13]*

K73 Gravina in Puglia
Observer F. Taccogna. 0.2-m $f/5.0$ Newtonian reflector + CCD.

2019 NC_1, 5, 1, 0; (134340), 2, 1, 0; (159857), 4, 1, 0; (285571), 4, 1, 0; (523664), 3, 1, 0; *[18, 5, 0*, 2021/08/14]*

K74 Muensterschwarzach Observatory, Schwarzach
Observer C. Gerhard. 0.3-m $f/3.75$ Newtonian reflector + CCD.

2001 EC, 7, 1, 0; 2011 UC_{292}, 8, 2, 7; 2019 NC_1, 3, 1, 0; 2021 JH_2, 14, 2, 10; 2021 JQ_{24}, 8, 2, 5; 2021 PR_2, 4, 1, 0; 2021 QB_3, 4, 1, 0; 2021 RM_3, 2, 1, 0; 2021 RX_5, 4, 1, 0; 2021 RD_{16}, 2, 1, 0; 2021 SG, 8, 1, 0; 2021 SN, 2, 1, 0; (4242), 4, 1, 0; (61080), 4, 1, 0; (73173), 3, 1, 0; (285571), 10, 2, 28; *[87, 16, 0*, 2021/08/20–2021/09/18]*

K78 iota Scorpii Observatory, La Spezia
Observers G. Scarfi, L. Sannino. 0.40-m $f/6$ Ritchey-Chrétien + CCD, 0.40-m $f/6$ reflector + CCD.

2008 CD_6, 3, 1, 0; 2021 PU_9, 2, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 QA, 3, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QE_2, 3, 1, 0; 2021 QB_3, 3, 1, 0; 2021 RH_2, 3, 1, 0; *[23, 8, 0*, 2021/08/13–2021/09/06]*

K80 Platanus Observatory, Lusowko
Observer T. Kluwak. 0.28-m $f/2.2$ Schmidt + CCD.
2010 RJ_{53}, 4, 1, 0; 2021 RS_5, 6, 2, 1; 2021 RY_6, 2, 1, 0; *[12, 3, 0∗, 2021/09/09–2021/09/10]*

K83 Beppe Forti Astronomical Observatory, Montelupo
Observers M. Tombelli, A. Mazzanti, E. Venticinque, M. Lombardo, M. Iozzi, A. Squilloni, M. Calamandrei, B. Venticinque, R. Ciani, E. Rossi, T. Bitossi, P. Fini, F. Bagnoli, L. Grazzini, D. Loncao, E. Venticinquei. Measurers M. Tombelli, F. Bernardi, M. Iozzi, G. Interrante. 0.40-m $f/8$ Ritchey-Chrétien + CCD.
2001 EC, 4, 1, 0; 2010 RJ_{53}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2019 NC_1, 3, 1, 0; 2019 UD_4, 3, 1, 0; 2021 PZ_4, 2, 1, 0; 2021 QK_1, 3, 1, 0; 2021 QR_1, 4, 1, 0; 2021 RF, 4, 1, 0; 2021 RG_2, 6, 2, 3; 2021 RH_2, 3, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RS_5, 4, 1, 0; 2021 RB_6, 2, 1, 0; 2021 RG_6, 3, 1, 0; 2021 RU_7, 3, 1, 0; (89), 4, 1, 0; (108), 3, 1, 0; (1347), 3, 1, 0; (1943), 3, 1, 0; (2431), 3, 1, 0; (3299), 3, 1, 0; (5865), 3, 1, 0; (7198), 3, 1, 0; (7599), 5, 2, 5; (7900), 3, 1, 0; (8031), 3, 1, 0; (8920), 3, 1, 0; (10041), 4, 1, 0; (12135), 2, 1, 0; (15822), 3, 1, 0; (16413), 3, 1, 0; (16529), 6, 2, 8; (16636), 3, 1, 0; (16641), 6, 2, 6; (17019), 3, 1, 0; (18631), 9, 2, 24; (19383), 2, 1, 0; (20195), 3, 1, 0; (21156), 3, 1, 0; (29364), 3, 1, 0; (30585), 3, 1, 0; (31153), 6, 2, 15; (32092), 3, 1, 0; (40473), 3, 1, 0; (54686), 3, 1, 0; (55378), 3, 1, 0; (63131), 2, 1, 0; (67989), 2, 1, 0; (70620), 2, 1, 0; (85709), 3, 1, 0; (97741), 3, 1, 0; (98591), 3, 1, 0; (106823), 3, 1, 0; (132243), 3, 1, 0; (138205), 4, 1, 0; (181958), 2, 1, 0; (187640), 3, 1, 0; (188620), 2, 1, 0; (202971), 3, 1, 0; (326732), 3, 1, 0; (363451), 3, 1, 0; (380904), 3, 1, 0; *[207, 63, 0∗, 2021/08/13–2021/09/11]*

K85 Kelmis
Observer T. Hebbeker.
(285571), 21, 8, 46; *[21, 1, 0∗, 2021/07/19–2021/09/03]*

K87 Dettelbach Vineyard Observatory
Observer B. Haeusler. 0.3-m $f/8.0$ Schmidt-Cassegrain + CCD.
2001 EC, 16, 5, 5; 2002 QG_{46}, 14, 5, 22; 2003 QA, 3, 1, 0; 2004 XJ_{29}, 5, 2, 1; 2005 TR_{45}, 6, 2, 3; 2008 CD_6, 11, 4, 3; 2008 SN_1, 6, 2, 16; 2009 QH_6, 5, 2, 3; 2010 JM_{151}, 3, 1, 0; 2011 UC_{292}, 15, 5, 5; 2011 YQ_{10}, 27, 7, 16; 2012 RG_{15}, 3, 1, 0; 2013 TM_4, 5, 2, 1; 2014 UU_{192}, 6, 2, 20; 2015 XE_{352}, 6, 2, 2; 2016 JS_{28}, 5, 2, 1; 2017 SR_{19}, 11, 4, 22; 2019 NC_1, 15, 5, 22; 2019 UD_4, 6, 2, 21; 2020 PP, 9, 3, 2; 2021 CH_2, 12, 4, 4; 2021 GM_4, 9, 3, 3; 2021 JH_2, 29, 8, 18; 2021 JQ_{24}, 7, 2, 2; 2021 LK_2, 2, 1, 0; 2021 LH_9, 12, 4, 5; 2021 LN_{15}, 24, 8, 27; 2021 MG_1, 14, 5, 4; 2021 MP_1, 11, 4, 35; 2021 NF_1, 6, 2, 3; 2021 NT_3, 6, 2, 3; 2021 NY_4, 6, 2, 1; 2021 NW_5, 11, 4, 7; 2021 PG, 2, 1, 0; 2021 PJ, 3, 1, 0; 2021 PT, 15, 5, 9; 2021 PA_2, 15, 5, 15; 2021 PO_2, 8, 3, 3; 2021 PR_2, 18, 6, 5; 2021 PS_2, 22, 8, 25; 2021 PG_5, 8, 3, 3; 2021 PK_5, 2, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PU_9, 6, 2, 1; 2021 PE_{10}, 5, 2, 1; 2021 PB_{15}, 8, 3, 11; 2021 PL_{23}, 6, 2, 2; 2021 PY_{40}, 3, 1, 0; 2021 PG_{46}, 3, 1, 0; 2021 QW, 3, 1, 0; 2021 QB_3, 26, 5, 4; 2021 QK_3, 2, 1, 0; 2021 QN_3, 9, 3, 4; 2021 RA, 12, 4, 4; 2021 RH, 2, 1, 0; 2021 RG_2, 4, 1, 0; 2021 RW_2, 3, 1, 0; 2021 RK_{14}, 6, 2, 2; (377), 3, 1, 0; *[523, 59, 0∗, 2021/08/10–2021/09/19]*

K88 GINOP-KHK, Piszkéstető
Observers K. Sárneczky, C. Kalup, B. Ignácz, R. Szakáts. Measurers K. Sárneczky, S. Kürti. 0.60-m Schmidt + CCD.
2000 QB_{148}, 3, 1, 0; 2004 RN_{222}, 3, 1, 0; 2007 TE_{66}, 3, 1, 0; 2008 WN_{163}, 4, 1, 0; 2013 TS_5, 2, 1, 0; 2013 XS_7, 2, 1, 0; 2014 JE_{47}, 2, 1, 0; 2014 OF_{61}, 2, 1, 0; 2014 QW_{432}, 3, 1, 0; 2015 BO_{513}, 2, 1, 0; 2017 SR_{19}, 3, 1, 0; 2017 SM_{271}, 2, 1, 0; 2017 VC_1, 3, 1, 0; 2019 NC_1, 6, 1, 0; 2019 OH_1, 2, 1, 0; 2019 UD_4, 12, 3, 5; 2020 DK_3, 2, 1, 0; 2021 CH_2, 3, 1, 0; 2021 LN_{15}, 10, 2, 6; 2021 NY_4, 3, 1, 0; 2021 PF_2, 3, 1, 0; 2021 PW_4, 3, 1, 0; 2021 PG_7, 4, 2, 1; 2021 PU_9, 9, 3, 2; 2021 PL_{23}, 3, 1, 0; 2021 PY_{40}, 2, 1, 0; 2021 QF, 2, 1, 0; 2021 QE_1, 5, 2, 3; 2021 QZ_1, 2, 1, 0; 2021 QA_2, 2, 1, 0; 2021 RA, 10, 2, 2; 2021 RB ∗, 23, 6, 8; 2021 RF, 4, 1, 0; 2021 RH ∗, 48, 3, 2; 2021 RK, 2, 1, 0; 2021 RS, 5, 2, 3; 2021 RA_1 ∗, 17, 4, 5; 2021 RN_1, 3, 1, 0; 2021 RT_1, 2, 1, 0; 2021 RW_2, 2, 1, 0; 2021 RX_2 ∗, 13, 2, 3; 2021 RG_3, 2, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RN_3, 2, 1, 0; 2021 RK_4 ∗, 7, 2, 2; 2021 RP_4, 11, 3, 4; 2021 RW_4 ∗, 17, 3, 3; 2021 RY_4, 3, 1, 0; 2021 RS_5 ∗, 41, 3, 2; 2021 RG_6, 12, 1, 0; 2021 RA_8 ∗, 49, 2, 1; 2021 RD_{10} ∗, 10, 2, 2; 2021 RU_{10} ∗, 13, 2, 3; 2021 RL_{15} ∗, 9, 2, 1; 2021 SE, 3, 1, 0; 2021 SF, 2, 1, 0; (56071), 3, 1, 0; (64840), 2, 1, 0; (65100), 2, 1, 0; (96859), 6, 1, 0; (103383), 3, 1, 0; (156070), 2, 1, 0; (160867), 2, 1, 0; (162091), 6, 1, 0; (162510), 3, 1, 0; (204458), 2, 1, 0; (217953), 2, 1, 0; (252919), 2, 1, 0; (285908), 2, 1, 0; (337248), 6, 2, 2; (353938), 8, 2, 27; (363344), 3, 1, 0; (366577), 2, 1, 0; (368563), 2, 1, 0; (577881), 2, 1, 0; *[480, 75, 11∗, 2017/10/17–2021/09/16]*

K91 Sutherland-LCO A
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, T. Santana-Ros, L. Conversi, M. Micheli, J. D. Armstrong. Measurers T. Lister, M. Micheli, J. D. Armstrong. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD.
2008 CD_6, 3, 1, 0; 2010 TE_{20}, 4, 1, 0; 2015 BR_{600}, 4, 1, 0; 2021 PJ_1, 7, 1, 0; 2021 PA_5, 4, 1, 0; 2021 PH_{27}, 1, 1, 0; 2021 RS_2, 1, 1, 0; *[24, 7, 0∗, 2021/08/10–2021/09/12]*

K92 Sutherland-LCO B
Observers J. D. Armstrong, T. Lister, J. Chatelain, E. Gomez, S. Greenstreet. Measurers J. D. Armstrong, T. Lister. 1.0-m $f/8$ Ritchey-Chrétien + CCD, 1.0-m $f/8.0$ Ritchey-Chrétien + CCD.
2017 SP_{141}, 4, 1, 0; 2021 PB_5, 4, 1, 0; (217837), 4, 1, 0; (567950), 4, 1, 0; *[16, 4, 0∗, 2021/08/10–2021/08/15]*

K93 Sutherland-LCO C
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, J. D. Armstrong. Measurers T. Lister, J. D. Armstrong. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD.
2015 SW_6, 4, 1, 0; 2021 PU_4, 4, 1, 0; 2021 PO_{41}, 4, 1, 0; *[12, 3, 0∗, 2021/08/10–2021/09/10]*

K95 MASTER-SAAO Observatory, Sutherland
Observers Y. Kechin, V. Lipunov, E. Gorbovskoy, D. Buckley, P. Balanutsa, V. Kornilov, A. Kuznetsov, N. Tiurina, O. Gress, D. Zimnukhov. 0.4-m $f/2.5$ reflector + CCD.
(315), 1, 1, 0; (17488), 1, 1, 0; *[2, 2, 0∗, 2021/05/14–2021/05/16]*

L01 Višnjan Observatory, Tican
Observers V. Dobos, I. Lyon, E. Pettarin, D. Pujagic, K. Korlević, F. Hrzenjak, I. Dedeic, M. Markovic, L. Poropat, J. Dragic, P. Dusevic, K. Floricic, L. Gelo, D. Grzinic, P. Jukic, S. Miljkovic, I. Paleka, V. K. Pavcnik, I. Perovic, D. Ivanic, G. Kervina. Measurers V. Dobos, D. Pujagic, K. Korlević, E. Pettarin, M. Markovic, J. Dragic, L. Gelo, S. Miljkovic, P. Jukic, I. Paleka, D. Grzinic, K. Floricic, V. K. Pavcnik, P. Dusevic, I. Perovic. 1.0-m $f/2.9$ reflector + CCD, 1.00-m $f/2.9$ reflector + CCD.
2004 XJ_{29}, 3, 1, 0; 2008 CD_6, 4, 1, 0; 2010 RJ_{53}, 4, 1, 0; 2011 UR_{255}, 3, 1, 0; 2012 TU_{136}, 6, 2, 1; 2016 LO_{10}, 5, 1, 0; 2016 RP_{40}, 3, 1, 0; 2017 ET_{22}, 5, 1, 0; 2017 GL_7, 5, 1, 0; 2017 RK_{15}, 4, 1, 0; 2018 BR_{28}, 6, 2, 1; 2019 DK, 4, 1, 0; 2020 PK, 4, 1, 0; 2021 LU_6, 4, 1, 0; 2021 MA_1, 5, 1, 0; 2021 NL_1, 3, 1, 0; 2021 OA_1, 3, 1, 0; 2021 PB_2, 4, 1, 0; 2021 PW_4, 3, 1, 0; 2021 PF_5, 8, 1, 0; 2021 PN_5, 3, 1, 0; 2021 PQ_6, 4, 1, 0; 2021 PX_6, 3, 1, 0; 2021 PY_6, 4, 1, 0; 2021 PD_7, 5, 1, 0; 2021 PG_7, 3, 1, 0; 2021 PB_9, 5, 1, 0; 2021 PC_9, 4, 1, 0; 2021 PR_9, 3, 1, 0; 2021 PS_9, 4, 1, 0; 2021 PU_9, 3, 1, 0; 2021 PC_{10}, 4, 1, 0; 2021 PD_{10}, 4, 1, 0; 2021 PE_{10}, 4, 1, 0; 2021 PF_{10}, 4, 1, 0; 2021 PG_{10}, 3, 1, 0; 2021 PH_{10}, 4, 1, 0; 2021 PJ_{10}, 3, 1, 0; 2021 PB_{15}, 4, 1, 0; 2021 PD_{15}, 3, 1, 0; 2021 PA_{17}, 4, 1, 0; 2021 PB_{17}, 4, 1, 0; 2021 PE_{20}, 4, 1, 0; 2021 PD_{23}, 3, 1, 0; 2021 PJ_{23}, 3, 1, 0; 2021 PL_{23}, 2, 1, 0; 2021 PA_{24}, 3, 1, 0; 2021 PJ_{27}, 5, 2, 1; 2021 QA, 8, 2, 1; 2021 QC, 8, 2, 1; 2021 QD, 3, 1, 0; 2021 QF, 3, 1, 0; 2021 QJ, 3, 1, 0; 2021 QK, 3, 1, 0; 2021 QM, 3, 1, 0; 2021 QP, 3, 1, 0; 2021 QR, 5, 1, 0; 2021 QE_1, 5, 1, 0; 2021 QF_1, 3, 1, 0; 2021 QG_1, 3, 1, 0; 2021 QH_1, 3, 1, 0; 2021 QL_1, 5, 1, 0; 2021 QO_1, 4, 1, 0; 2021 QR_1, 5, 1, 0; 2021 QS_1, 3, 1, 0; 2021 QV_1, 5, 1, 0; 2021 QW_1, 4, 1, 0; 2021 QA_2, 3, 1, 0; 2021 QE_2, 2, 1, 0; 2021 QG_2, 3, 1, 0; 2021 QH_2, 4, 1, 0; 2021 QL_2, 4, 1, 0; 2021 QM_2, 5, 1, 0; 2021 QO_2, 4, 1, 0; 2021 QP_2, 8, 2, 4; 2021 QQ_2, 3, 1, 0; 2021 QB_3, 9, 1, 0; 2021 QC_3, 4, 1, 0; 2021 QD_3, 3, 1, 0; 2021 QE_3, 4, 1, 0; 2021 QH_3, 5, 1, 0; 2021 QJ_3, 5, 1, 0; 2021 QK_3, 5, 1, 0; 2021 QL_3, 5, 1, 0; 2021 QM_3, 4, 1, 0; 2021 QN_3, 5, 1, 0; 2021 QO_3, 5, 1, 0; 2021 QP_3, 4, 1, 0; 2021 QQ_3, 5, 1, 0; 2021 QR_3, 4, 1, 0; 2021 QJ_4, 5, 1, 0; 2021 QK_4, 4, 1, 0; 2021 QL_5, 3, 1, 0; 2021 QB_6, 2, 1, 0; 2021 QV_6, 5, 1, 0; 2021 RA, 5, 1, 0; 2021 RB, 5, 1, 0; 2021 RC, 4, 1, 0; 2021 RE, 5, 1, 0; 2021 RF, 5, 1, 0; 2021 RG, 5, 1, 0; 2021 RH, 5, 1, 0; 2021 RJ, 4, 1, 0; 2021 RK, 4, 1, 0; 2021 RL, 3, 1, 0; 2021 RM, 4, 1, 0; 2021 RN, 4, 1, 0; 2021 RQ, 5, 1, 0; 2021 RR, 5, 1, 0; 2021 RS, 5, 1, 0; 2021 RT, 5, 1, 0; 2021 RV, 5, 1, 0; 2021 RW, 3, 1, 0; 2021 RY, 5, 1, 0; 2021 RZ, 5, 1, 0; 2021 RA_1, 5, 1, 0; 2021 RB_1, 7, 1, 0; 2021 RC_1, 5, 1, 0; 2021 RE_1, 5, 1, 0; 2021 RF_1, 5, 1, 0; 2021 RH_1, 4, 1, 0; 2021 RJ_1, 5, 1, 0; 2021 RK_1, 3, 1, 0; 2021 RM_1, 3, 1, 0; 2021 RN_1, 5, 1, 0; 2021 RO_1, 5, 1, 0; 2021 RP_1, 5, 1, 0; 2021 RQ_1, 5, 1, 0; 2021 RR_1, 4, 1, 0; 2021 RU_1, 3, 1, 0; 2021 RV_1, 5, 1, 0; 2021 RW_1, 4, 1, 0; 2021 RX_1, 4, 1,

0; 2021 RZ_1, 4, 1, 0; 2021 RB_2, 4, 1, 0; 2021 RC_2, 4, 1, 0; 2021 RD_2, 3, 1, 0; 2021 RE_2, 3, 1, 0; 2021 RG_2, 5, 1, 0; 2021 RH_2, 5, 1, 0; 2021 RJ_2, 5, 1, 0; 2021 RK_2, 5, 1, 0; 2021 RL_2, 3, 1, 0; 2021 RR_2, 4, 1, 0; 2021 RW_2, 5, 1, 0; 2021 RX_2, 5, 1, 0; 2021 RY_2, 5, 1, 0; 2021 RE_3, 4, 1, 0; 2021 RF_3, 5, 1, 0; 2021 RG_3, 5, 1, 0; 2021 RL_3, 5, 1, 0; 2021 RM_3, 4, 1, 0; 2021 RN_3, 3, 1, 0; 2021 RP_3, 5, 1, 0; 2021 RQ_3, 5, 1, 0; 2021 RR_3, 5, 1, 0; 2021 RU_3, 4, 1, 0; 2021 RW_3, 3, 1, 0; 2021 RZ_3, 3, 1, 0; 2021 RA_4, 5, 1, 0; 2021 RB_4, 4, 1, 0; 2021 RE_4, 4, 1, 0; 2021 RK_4, 5, 1, 0; 2021 RL_4, 5, 1, 0; 2021 RP_4, 4, 1, 0; 2021 RQ_4, 4, 1, 0; 2021 RR_4, 4, 1, 0; 2021 RT_4, 4, 1, 0; 2021 RV_4, 4, 1, 0; 2021 RW_4, 6, 1, 0; 2021 RX_4, 4, 1, 0; 2021 RZ_4, 3, 1, 0; 2021 RM_5, 3, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RS_5, 4, 1, 0; 2021 RT_5, 2, 1, 0; 2021 RU_5, 5, 1, 0; 2021 RV_5, 3, 1, 0; 2021 RW_5, 4, 1, 0; 2021 RZ_5, 5, 1, 0; 2021 RA_6, 3, 1, 0; 2021 RB_6, 3, 1, 0; 2021 RC_6, 3, 1, 0; 2021 RD_6, 3, 1, 0; 2021 RG_6, 4, 1, 0; 2021 RH_6, 3, 1, 0; 2021 RJ_6, 3, 1, 0; 2021 RK_6, 4, 1, 0; 2021 RM_6, 3, 1, 0; 2021 RV_6, 3, 1, 0; 2021 RX_6, 3, 1, 0; 2021 RY_6, 3, 1, 0; 2021 RF_7, 5, 1, 0; 2021 RG_7, 3, 1, 0; 2021 RM_7, 3, 1, 0; 2021 RT_7, 3, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RV_7, 3, 1, 0; 2021 RW_7, 3, 1, 0; 2021 RX_7, 2, 1, 0; 2021 RY_7, 3, 1, 0; 2021 RZ_7, 3, 1, 0; 2021 RA_8, 5, 1, 0; 2021 RO_9, 4, 1, 0; 2021 RP_9, 3, 1, 0; 2021 RQ_9, 3, 1, 0; 2021 RR_9, 4, 1, 0; 2021 RT_9, 3, 1, 0; 2021 RU_9, 4, 1, 0; 2021 RV_9, 4, 1, 0; 2021 RX_9, 4, 1, 0; 2021 RZ_9, 3, 1, 0; 2021 RA_{10}, 5, 1, 0; 2021 RB_{10}, 4, 1, 0; 2021 RC_{10}, 10, 2, 1; 2021 RD_{10}, 4, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RK_{10}, 4, 1, 0; 2021 RL_{10}, 4, 1, 0; 2021 RM_{10}, 3, 1, 0; 2021 RN_{10}, 5, 1, 0; 2021 RO_{10}, 3, 1, 0; 2021 RP_{10}, 4, 1, 0; 2021 RU_{10}, 4, 1, 0; 2021 RX_{11}, 5, 1, 0; 2021 RA_{12}, 3, 1, 0; 2021 RF_{12}, 5, 1, 0; 2021 RG_{12}, 5, 1, 0; 2021 RH_{12}, 3, 1, 0; 2021 RJ_{14}, 11, 1, 0; 2021 RK_{14}, 5, 1, 0; 2021 RL_{14}, 5, 1, 0; 2021 RM_{14}, 5, 1, 0; 2021 RN_{14}, 5, 1, 0; 2021 RO_{14}, 5, 1, 0; 2021 RR_{14}, 5, 1, 0; 2021 RS_{14}, 4, 1, 0; 2021 RB_{15}, 4, 1, 0; 2021 RC_{15}, 5, 1, 0; 2021 RD_{15}, 6, 2, 1; 2021 RF_{15}, 4, 1, 0; 2021 RL_{15}, 5, 1, 0; 2021 RA_{16}, 3, 1, 0; 2021 RD_{16}, 5, 1, 0; 2021 RF_{16}, 5, 1, 0; 2021 RK_{16}, 3, 1, 0; 2021 RM_{16}, 5, 1, 0; 2021 RN_{16}, 3, 1, 0; 2021 RO_{16}, 5, 1, 0; 2021 RP_{16}, 5, 1, 0; 2021 RU_{16}, 5, 1, 0; 2021 RH_{19}, 3, 1, 0; 2021 RJ_{19}, 3, 1, 0; *[1052, 253, 0∗, 2021/08/08–2021/09/15]*

L06 Sormano 2 Observatory, Bellagio Via Lattea

Observers G. Ventre, A. Fumagalli. Measurer P. Sicoli. 0.36-m Schmidt-Cassegrain + CCD.

2021 PC_{10}, 3, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 PA_{24}, 2, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RU_9, 2, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; *[19, 7, 0∗, 2021/08/14–2021/09/12]*

L18 QOS Observatory, Zalistci

Observers Y. V. Tanasiychuk, O. V. Kravchenko, S. V. Rischenko, T. O. Dementiev, M. K. Reshetov, Y. V. Shevchuk, T. A. Bezluschenko, M. V. Reshetov, V. L. Pasatetskiy. Measurer A. M. Kozhukhov. 0.50-m f/3.8 reflector + CCD.

2000 PN_8, 9, 3, 3; 2008 CD_6, 12, 2, 1; 2009 QH_6, 4, 1, 0; 2011 UC_{292}, 5, 1, 0; 2011 YQ_{10}, 20, 2, 6; 2014 HO_{129}, 15, 4, 5; 2019 UD_4, 20, 4, 18; 2020 PP, 6, 1, 0; 2021 CH_2, 9, 2, 1; 2021 LQ_{24}, 3, 1, 0; 2021 MG_1, 4, 1, 0; 2021 NT_3, 4, 1, 0; 2021 PJ, 3, 1, 0; 2021 PO, 7, 2, 2; 2021 PT, 6, 1, 0; 2021 PJ_1, 3, 1, 0; 2021 PP_2, 6, 2, 2; 2021 PR_2, 10, 3, 10; 2021 PS_2, 3, 1, 0; 2021 PW_4, 4, 1, 0; 2021 PL_{23}, 4, 1, 0; 2021 PY_{40}, 21, 4, 9; 2021 QA, 3, 1, 0; 2021 QC, 3, 1, 0; 2021 QV_6, 3, 1, 0; 2021 RA, 5, 1, 0; 2021 RB_1, 6, 2, 3; 2021 RT_1, 3, 1, 0; 2021 RG_2, 7, 2, 1; 2021 RH_2, 7, 2, 1; 2021 RP_2, 6, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RX_5, 5, 1, 0; 2021 RU_7, 5, 1, 0; 2021 RQ_9, 3, 1, 0; 2021 RC_{10}, 7, 2, 3; 2021 RG_{12}, 4, 1, 0; 2021 RJ_{14}, 3, 1, 0; (138404), 5, 1, 0; (337248), 19, 3, 4; *[275, 40, 0∗, 2021/08/10–2021/09/15]*

L27 29PREMOTE Observatory, Dauban

Observer J.-F. Soulier. 0.25-m f/3.5 Newtonian reflector + CCD.

(2060), 2, 1, 0; *[2, 1, 0∗, 2021/09/11]*

L29 Drebach-South Observatory, Windhoek

Observer J. Lorenz. 0.4-m f/3.6 reflector + CCD.

2010 RJ_{53}, 3, 1, 0; 2021 RA, 4, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RX_5, 6, 2, 1; *[16, 4, 0∗, 2021/09/02–2021/09/10]*

L34 Galhassin Robotic Telescope, Isnello

Observer A. Nastasi. 0.40-m f/38.0 reflector + CCD.

2019 UD_4, 4, 1, 0; 2021 QB_3, 4, 1, 0; *[8, 2, 0∗, 2021/08/27–2021/09/01]*

L38 Gartensternwarte Schafsweide, Sehlde

Observer A. Opitz. 0.25-m Newtonian reflector + CCD.

2008 CD_6, 5, 2, 2; 2021 LH_9, 3, 1, 0; 2021 LQ_{24}, 3, 1, 0; 2021 OZ_6, 3, 1, 0; 2021 PC_{10}, 2, 1, 0; 2021 PY_{40}, 3, 1, 0; (68347), 4, 1, 0; (93391), 3, 1, 0; (184143), 3, 1, 0; (310285), 3, 1, 0; *[32, 10, 0∗, 2021/08/14–2021/09/08]*

L39 Osservatorio Spica, Signa

Observer M. Bertini. 0.30-m Newtonian reflector + CCD.

2021 QB_3, 3, 1, 0; 2021 RB_1, 3, 1, 0; *[6, 2, 0∗, 2021/08/31–2021/09/05]*

L40 Sternwarte Saarbruecken Rastpfuhl

Observer M. Schoenwetter. 0.15-m f/6.1 refractor + CCD.

(285571), 3, 1, 0; *[3, 1, 0∗, 2021/08/13]*

L43 Ager, Leida

Observer J. Carballada. 0.17-m f/6.5 refractor + CCD, 0.07-m f/4.4 refractor + CCD.

2019 NC_1, 3, 1, 0; 2021 MG_1, 3, 1, 0; (2412), 3, 1, 0; (2694), 3, 1, 0; (3008), 3, 1, 0; (3614), 3, 1, 0; (3975), 3, 1, 0; (5522), 3, 1, 0; (17370), 3, 1, 0; (22596), 3, 1, 0; (27151), 3, 1, 0; (37035), 3, 1, 0; (38183), 3, 1, 0; (38622), 3, 1, 0; (41788), 3, 1, 0; (78007), 3, 1, 0; (99513), 3, 1, 0; (105839), 3, 1, 0; (134679), 3, 1, 0; (231838), 3, 1, 0; *[60, 20, 0∗, 2021/08/15–2021/08/18]*

L47 Osservatorio Astronomico, Piobbico

Observers A. Teseo, A. Annamelia. Measurer A. Teseo. 0.20-m f/6.3 Schmidt-Cassegrain + CCD.

2011 UC_{292}, 4, 2, 1; 2014 HO_{129}, 5, 2, 1; 2019 NC_1, 10, 5, 7; 2019 UD_4, 2, 1, 0; 2021 CH_2, 6, 2, 1; 2021 MG_1, 4, 2, 1; 2021 RG_2, 2, 1, 0; 2021 SG, 16, 1, 0; (283460), 4, 2, 3; (285571), 10, 5, 4; (326732), 4, 2, 1; *[67, 11, 0∗, 2021/08/13–2021/09/17]*

L54 Berthelot Observatory, Hunedoara

Observers A. Sonka, A. Nedelcu. Measurer A. Sonka. 0.38-m f/8 Ritchey-Chrétien + CCD.

2001 EC, 39, 2, 2; 2005 OG_3, 3, 1, 0; 2010 RU_{77}, 3, 1, 0; 2011 UC_{292}, 12, 1, 0; 2011 YQ_{10}, 9, 2, 5; 2019 UD_4, 6, 1, 0; 2021 CH_2, 3, 1, 0; 2021 JH_2, 5, 1, 0; 2021 MG_1, 3, 1, 0; 2021 RX_5, 14, 1, 0; 2021 RC_{10}, 6, 1, 0; (186), 3, 1, 0; (3423), 6, 2, 6; (3776), 3, 1, 0; (8081), 3, 1, 0; (17370), 3, 1, 0; (18546), 6, 1, 0; (18875), 3, 1, 0; (21534), 3, 1, 0; (38421), 3, 1, 0; (40226), 3, 1, 0; (41951), 3, 1, 0; (58247), 3, 1, 0; (66971), 3, 1, 0; (67159), 3, 1, 0; (74842), 3, 1, 0; (95583), 6, 1, 0; (102051), 3, 1, 0; (104512), 3, 1, 0; (116160), 3, 1, 0; (118465), 3, 1, 0; (120885), 3, 1, 0; (129303), 3, 1, 0; (149452), 6, 1, 0; (164657), 3, 1, 0; (183861), 6, 2, 7; (203377), 5, 1, 0; (213318), 6, 1, 0; (248370), 12, 4, 27; (259149), 3, 1, 0; (368207), 3, 1, 0; (425367), 3, 1, 0; (580622), 3, 1, 0; *[228, 43, 0∗, 2021/08/10–2021/09/13]*

L59 Compustar Observatory, Rouen

Observer B. Vauquelin. 0.4-m f/6.35 reflector + CCD.

2012 KW_{63}, 3, 1, 0; 2013 VQ_9, 4, 1, 0; 2015 BB_{583}, 2, 1, 0; 2015 MZ_{150}, 4, 1, 0; 2016 VX_{15}, 3, 1, 0; (116374), 6, 2, 1; (138863), 4, 1, 0; (255056), 7, 3, 2; (546845), 2, 1, 0; (550916), 4, 1, 0; (584284), 8, 2, 1; *[47, 11, 0∗, 2021/08/10–2021/09/02]*

L63 HOB Observatory, Capraia Fiorentina

Observer M. Iozzi. 0.2-m f/6.75 Schmidt-Cassegrain + CCD.

2002 RO_{137}, 3, 1, 0; 2011 UC_{292}, 6, 2, 6; 2014 HO_{129}, 3, 1, 0; 2019 NC_1, 3, 1, 0; 2021 LN_{15}, 3, 1, 0; 2021 MG_1, 6, 2, 1; 2021 QA, 2, 1, 0; 2021 QB_3, 3, 1, 0; 2021 RA, 2, 1, 0; 2021 RG_2, 2, 1, 0; (68063), 6, 2, 22; (86878), 2, 1, 0; (93667), 3, 1, 0; (159857), 6, 2, 8; (199003), 3, 1, 0; (283460), 3, 1, 0; (285571), 3, 1, 0; (326732), 6, 2, 8; (353938), 17, 6, 24; *[82, 19, 0∗, 2021/08/17–2021/09/13]*

L68 PESCOPE, Port Elizabeth

Observer S. L. Ferreira. 0.23-m f/6.3 Schmidt-Cassegrain + CCD.

2011 YQ_{10}, 6, 2, 8; *[6, 1, 0∗, 2021/08/30–2021/09/07]*

L69 LaCaille Observatory, Pretoria

Observer J. F. S. Theron. 0.28-m f/10 Schmidt-Cassegrain + CCD + f/7 focal reducer.

(477), 3, 1, 0; (110302), 3, 1, 0; *[6, 2, 0∗, 2021/09/02–2021/09/03]*

L74 AstroColauri, Naples
Observer G. Morra.

2021 QC_1, 2, 1, 0; 2021 QR_1, 2, 1, 0; 2021 QE_2, 2, 1, 0; 2021 RU_7, 3, 1, 0; 2021 RA_{10}, 2, 1, 0; 2021 RC_{10}, 2, 1, 0; 2021 RU_{10}, 2, 1, 0; 2021 RL_{15}, 2, 1, 0; 2021 SN, 2, 1, 0; (199003), 3, 1, 0; (329669), 3, 1, 0; *[25, 11, 0*, 2021/08/26–2021/09/18]*

L76 Nomad Observatory, Kochevanchik
Observer E. Romas. 0.2-m $f/5$ Newtonian reflector + CCD.

2004 SV, 3, 1, 0; 2011 YQ_{10}, 6, 1, 0; 2014 HO_{129}, 3, 1, 0; 2015 PJ_8, 3, 1, 0; 2021 PR_2, 6, 2, 1; 2021 PY_{40}, 6, 2, 1; (7303), 3, 1, 0; (12253), 3, 1, 0; (41990), 6, 1, 0; (76981), 3, 1, 0; (87729), 3, 1, 0; (88435), 3, 1, 0; (96802), 3, 1, 0; (135191), 3, 1, 0; (159857), 3, 1, 0; (285571), 60, 1, 0; (506340), 3, 1, 0; *[120, 17, 0*, 2021/09/08–2021/09/10]*

L80 SpringBok Observatory, Tivoli
Observers R. Reszelewski, M. Żołnowski, M. Gedek, K. Zukowski, T. Santana-Ros, L. Conversi, M. Micheli. Measurer M. Micheli. 0.36-m $f/2.2$ reflector, 0.4-m $f/3.75$ reflector + CCD. (02)

Observers M. Gedek, M. Kusiak, R. Reszelewski, M. Żołnowski. 0.36-m $f/2.2$ astrograph. (03)

{2} 2021 PH_{27}, 2, 1, 0; 2021 QH_1, 2, 1, 0; *[4, 2, 0*, 2021/08/30–2021/09/02]*

{3} 2013 QH_{48}, 5, 1, 0; 2017 SY_{272}, 5, 1, 0; *[10, 2, 0*, 2021/09/02–2021/09/03]*

L81 Skygems Namibia Remote Observatory
Observers L. Buzzi, L. Demetz. Measurers L. Buzzi, G. Galli, A. Aletti. 0.51-m $f/6.7$ astrograph + CCD. (01)

Observer T. Kessler. 0.50-m $f/6.7$ reflector + CCD, 0.50-m reflector + CCD. (08)

{1} 2005 RO_{33}, 3, 1, 0; 2006 LA, 3, 1, 0; 2011 LA_{19}, 2, 1, 0; 2012 KK_{18}, 3, 1, 0; 2013 TM_4, 2, 1, 0; 2014 PO_{89}, 2, 1, 0; 2016 AJ_{193}, 5, 1, 0; 2018 LM_4, 2, 1, 0; 2018 TG_5, 2, 1, 0; 2021 CU_4, 4, 2, 7; 2021 JQ_{24}, 3, 1, 0; 2021 KQ_7, 2, 1, 0; 2021 ND_2, 2, 1, 0; 2021 OX_1, 2, 1, 0; 2021 PA, 3, 1, 0; 2021 PE, 2, 1, 0; 2021 PO_2, 3, 1, 0; 2021 PY_4, 3, 1, 0; 2021 PC_{10}, 2, 1, 0; 2021 PE_{10}, 2, 1, 0; 2021 PE_{20}, 3, 1, 0; 2021 PF_{20}, 2, 1, 0; 2021 PN_{26}, 5, 2, 2; 2021 QA, 2, 1, 0; 2021 QC, 2, 1, 0; 2021 QF, 3, 1, 0; 2021 QH, 5, 2, 2; 2021 QR_1, 2, 1, 0; 2021 QB_3, 5, 1, 0; 2021 QK_5, 6, 2, 1; 2021 RA, 3, 1, 0; (31190), 2, 1, 0; (33549), 2, 1, 0; (46426), 2, 1, 0; (66030), 2, 1, 0; (73251), 3, 1, 0; (75428), 2, 1, 0; (92259), 2, 1, 0; (99484), 2, 1, 0; (104756), 2, 1, 0; (136895), 3, 1, 0; (153127), 2, 1, 0; (181626), 2, 1, 0; (198993), 2, 1, 0; (200262), 3, 1, 0; (310509), 2, 1, 0; (349415), 2, 1, 0; (384066), 2, 1, 0; (385140), 2, 1, 0; (385484), 2, 1, 0; (420818), 2, 1, 0; (427282), 2, 1, 0; (430790), 2, 1, 0; (440948), 2, 1, 0; (475177), 2, 1, 0; (482820), 2, 1, 0; *[143, 56, 0*, 2021/08/03–2021/09/02]*

{8} 2005 QT_{125}, 6, 2, 8; 2011 UB_{437}, 3, 1, 0; 2012 CA_1, 3, 1, 0; 2014 OG_{458}, 7, 2, 3; 2018 YD_{14}, 6, 2, 3; 2021 NE_{42}, 4, 1, 0; 2021 OL_{15}, 4, 1, 0; (20063), 3, 1, 0; (21706), 3, 1, 0; (63636), 3, 1, 0; (76905), 3, 1, 0; (87114), 3, 1, 0; (102108), 3, 1, 0; (102178), 3, 1, 0; (106909), 3, 1, 0; (115576), 3, 1, 0; (143135), 3, 1, 0; (151111), 3, 1, 0; (158224), 3, 1, 0; (192899), 3, 1, 0; (201670), 3, 1, 0; (207154), 3, 1, 0; (209286), 3, 1, 0; (231245), 3, 1, 0; (259472), 3, 1, 0; (276505), 3, 1, 0; (279390), 3, 1, 0; (297679), 6, 2, 8; (307107), 3, 1, 0; (353708), 3, 1, 0; (378708), 3, 1, 0; (390986), 6, 2, 8; (398820), 3, 1, 0; (419592), 6, 2, 8; (566328), 3, 1, 0; (571089), 3, 1, 0; *[129, 36, 0*, 2021/08/29–2021/09/09]*

L86 Giordano Bruno Observatory, Brallo
Observers F. Cappiello, S. Massaro. 0.50-m $f/8.00$ Ritchey-Chrétien + CCD.

(810), 6, 2, 2; (927), 3, 1, 0; (1100), 3, 1, 0; (1830), 5, 1, 0; (6519), 3, 1, 0; *[20, 5, 0*, 2021/08/09–2021/09/09]*

L99 Novoselki
Observer A. M. Kozhukhov.

2011 UC_{292}, 3, 1, 0; 2011 YQ_{10}, 3, 1, 0; 2019 NC_1, 7, 2, 2; 2019 UD_4, 3, 1, 0; 2021 MG_1, 3, 1, 0; 2021 QB_3, 18, 1, 0; 2021 RB_1, 3, 1, 0; (326732), 15, 1, 0; *[55, 8, 0*, 2021/08/12–2021/09/07]*

M46 Althuraya Astronomy Center, Dubai
Observer U. Asim. 0.25-m $f/8.0$ Schmidt-Cassegrain + CCD.

2001 EC, 2, 1, 0; (68063), 8, 2, 8; *[10, 2, 0*, 2021/08/29–2021/09/06]*

N42 Tien-Shan Astronomical Observatory
Observer I. Reva. Measurer A. Serebryanskiy.

(1269), 51, 1, 0; (5615), 36, 1, 0; (12923), 30, 1, 0; (92188), 21, 1, 0; (271480), 115, 3, 15; (456806), 21, 1, 0; *[274, 6, 0*, 2021/04/13–2021/09/05]*

N51 GROWTH India Telescope, IAO, Hanle
Observers V. Swain, K. Sharma, H. Kumar, U. Stanzin, V. Bhalerao, G. C. Anupama, S. Barway, J. Stanzin. Measurers V. Swain, K. Sharma. 0.70-m $f/6.5$ Corrected Dall-Kirkham + CCD.

2021 QA_1, 2, 1, 0; 2021 QE_2, 2, 1, 0; 2021 RQ_2, 3, 1, 0; 2021 SA, 2, 1, 0; 2021 SG, 4, 1, 0; 2021 SN, 3, 1, 0; *[16, 6, 0*, 2021/08/26–2021/09/18]*

N82 Multa Observatory
Observer L. Elenin. 0.4-m $f/1.25$ reflector + CCD.

2021 RF, 3, 1, 0; 2021 RG_2, 3, 1, 0; *[6, 2, 0*, 2021/09/04–2021/09/07]*

N86 Xingming Observatory-KATS, Nanshan
Observers X. Gao, Q.-Z. Ye. Measurer Q.-Z. Ye. 0.28-m $f/2.2$ reflector, 0.28-m $f/2.2$ Schmidt.

2007 PT_{10}, 3, 1, 0; 2011 LD_{20}, 4, 1, 0; 2013 OJ_{13}, 3, 1, 0; (25), 4, 1, 0; (50), 4, 1, 0; (53), 4, 1, 0; (61), 4, 1, 0; (106), 4, 1, 0; (114), 4, 1, 0; (134), 4, 1, 0; (167), 4, 1, 0; (186), 4, 1, 0; (191), 3, 1, 0; (212), 4, 1, 0; (217), 4, 1, 0; (224), 4, 1, 0; (338), 8, 2, 8; (352), 4, 1, 0; (355), 4, 1, 0; (399), 4, 1, 0; (404), 4, 1, 0; (426), 3, 1, 0; (430), 4, 1, 0; (435), 3, 1, 0; (438), 3, 1, 0; (444), 4, 1, 0; (456), 4, 1, 0; (487), 4, 1, 0; (491), 8, 2, 7; (516), 4, 1, 0; (582), 4, 1, 0; (584), 4, 1, 0; (604), 4, 1, 0; (613), 3, 1, 0; (615), 4, 1, 0; (621), 4, 1, 0; (653), 4, 1, 0; (655), 4, 1, 0; (663), 4, 1, 0; (673), 4, 1, 0; (690), 4, 1, 0; (732), 4, 1, 0; (742), 4, 1, 0; (760), 8, 2, 14; (775), 3, 1, 0; (793), 3, 1, 0; (796), 4, 1, 0; (801), 4, 1, 0; (840), 4, 1, 0; (861), 4, 1, 0; (868), 4, 1, 0; (878), 7, 2, 15; (918), 4, 1, 0; (942), 4, 1, 0; (950), 4, 1, 0; (982), 3, 1, 0; (1001), 4, 1, 0; (1068), 4, 1, 0; (1093), 4, 1, 0; (1101), 4, 1, 0; (1180), 4, 1, 0; (1190), 4, 1, 0; (1211), 8, 2, 5; (1212), 4, 1, 0; (1222), 8, 2, 2; (1232), 4, 1, 0; (1239), 3, 1, 0; (1251), 8, 2, 4; (1265), 4, 1, 0; (1280), 4, 1, 0; (1285), 4, 1, 0; (1289), 4, 1, 0; (1335), 4, 1, 0; (1357), 4, 1, 0; (1368), 3, 1, 0; (1384), 4, 1, 0; (1393), 4, 1, 0; (1394), 4, 1, 0; (1398), 4, 1, 0; (1412), 4, 1, 0; (1415), 8, 2, 8; (1443), 4, 1, 0; (1450), 4, 1, 0; (1459), 4, 1, 0; (1474), 4, 1, 0; (1477), 4, 1, 0; (1478), 4, 1, 0; (1523), 4, 1, 0; (1536), 4, 1, 0; (1554), 4, 1, 0; (1585), 4, 1, 0; (1594), 4, 1, 0; (1614), 3, 1, 0; (1623), 4, 1, 0; (1639), 4, 1, 0; (1671), 4, 1, 0; (1720), 4, 1, 0; (1802), 4, 1, 0; (1830), 4, 1, 0; (1848), 4, 1, 0; (1851), 4, 1, 0; (1884), 3, 1, 0; (1892), 4, 1, 0; (1909), 3, 1, 0; (1936), 4, 1, 0; (1943), 4, 1, 0; (1963), 4, 1, 0; (1985), 4, 1, 0; (2023), 3, 1, 0; (2098), 4, 1, 0; (2109), 4, 1, 0; (2116), 8, 2, 5; (2132), 4, 1, 0; (2137), 4, 1, 0; (2242), 4, 1, 0; (2255), 4, 1, 0; (2276), 4, 1, 0; (2283), 4, 1, 0; (2381), 4, 1, 0; (2416), 4, 1, 0; (2458), 3, 1, 0; (2469), 4, 1, 0; (2485), 4, 1, 0; (2494), 4, 1, 0; (2495), 4, 1, 0; (2535), 4, 1, 0; (2549), 3, 1, 0; (2571), 4, 1, 0; (2574), 7, 2, 9; (2607), 4, 1, 0; (2612), 4, 1, 0; (2616), 4, 1, 0; (2766), 4, 1, 0; (2780), 4, 1, 0; (2781), 4, 1, 0; (2804), 4, 1, 0; (2837), 4, 1, 0; (2932), 3, 1, 0; (2954), 3, 1, 0; (2970), 4, 1, 0; (3019), 4, 1, 0; (3053), 4, 1, 0; (3071), 4, 1, 0; (3074), 4, 1, 0; (3216), 8, 2, 4; (3251), 4, 1, 0; (3304), 4, 1, 0; (3317), 7, 2, 7; (3408), 4, 1, 0; (3421), 4, 1, 0; (3430), 4, 1, 0; (3451), 7, 2, 12; (3490), 4, 1, 0; (3531), 4, 1, 0; (3532), 4, 1, 0; (3587), 4, 1, 0; (3615), 4, 1, 0; (3659), 4, 1, 0; (3664), 4, 1, 0; (3670), 4, 1, 0; (3680), 7, 2, 9; (3703), 4, 1, 0; (3745), 4, 1, 0; (3766), 4, 1, 0; (3839), 4, 1, 0; (3851), 4, 1, 0; (3863), 4, 1, 0; (3885), 3, 1, 0; (3916), 3, 1, 0; (3922), 4, 1, 0; (3929), 4, 1, 0; (3969), 4, 1, 0; (4022), 4, 1, 0; (4063), 8, 2, 4; (4068), 4, 1, 0; (4076), 4, 1, 0; (4083), 4, 1, 0; (4101), 4, 1, 0; (4126), 4, 1, 0; (4147), 12, 2, 8; (4196), 4, 1, 0; (4236), 4, 1, 0; (4297), 4, 1, 0; (4319), 4, 1, 0; (4410), 4, 1, 0; (4466), 3, 1, 0; (4471), 4, 1, 0; (4502), 4, 1, 0; (4507), 4, 1, 0; (4547), 4, 1, 0; (4555), 4, 1, 0; (4570), 4, 1, 0; (4653), 4, 1, 0; (4732), 4, 1, 0; (4737), 4, 1, 0; (4739), 4, 1, 0; (4834), 4, 1, 0; (4856), 4, 1, 0; (4927), 4, 1, 0; (4933), 4, 1, 0; (4935), 8, 2, 4; (4966), 3, 1, 0; (5040), 4, 1, 0; (5058), 4, 1, 0; (5075), 4, 1, 0; (5089), 4, 1, 0; (5167), 4, 1, 0; (5170), 4, 1, 0; (5358), 4, 1, 0; (5389), 4, 1, 0; (5480), 4, 1, 0; (5515), 4, 1, 0; (5599), 8, 1, 0; (5676), 4, 1, 0; (5680), 3, 1, 0; (5845), 4, 1, 0; (5897), 4, 1, 0; (5917), 8, 2, 2; (5921), 4, 1, 0; (5987), 4, 1, 0; (5993), 4, 1, 0; (6023), 4, 1, 0; (6132), 4, 1, 0; (6136), 4, 1, 0; (6164), 4, 1, 0; (6182), 3, 1, 0; (6286), 3, 1, 0; (6297), 4, 1, 0; (6369), 4, 1, 0; (6376), 8, 2, 7; (6457), 4, 1, 0; (6484), 4, 1, 0; (6510), 8, 2, 5; (6637), 4, 1, 0; (6661), 4, 1, 0; (6705), 4, 1, 0; (6724), 4, 1, 0; (6755), 4, 1, 0; (6787), 3, 1, 0; (6810), 4, 1, 0; (6813), 4, 1, 0; (6828), 8, 2, 5; (6830), 7, 2, 9; (6838), 4, 1, 0; (6848), 4, 1, 0; (7084), 4, 1, 0; (7132), 4, 1, 0; (7143), 4, 1, 0; (7148), 4, 1, 0; (7191), 4, 1, 0; (7244), 4, 1, 0; (7284), 4, 1, 0; (7324), 4, 1, 0; (7391), 4, 1, 0; (7509), 4, 1, 0; (7538), 3, 1, 0; (7548), 8, 2, 8; (7563), 4, 1, 0; (7566), 4, 1, 0; (7628), 4, 1, 0; (7658), 4, 1, 0; (7726), 3, 1, 0; (7782), 4, 1, 0; (7825), 8, 2, 8; (7854), 4, 1, 0; (8030), 4, 1, 0; (8221), 4, 1, 0; (8248), 4, 1, 0; (8327), 4, 1, 0; (8353), 4, 1, 0; (8402), 4, 1, 0; (8523), 4, 1, 0; (8538), 4, 1, 0; (8611), 4, 1, 0; (8643), 4, 1, 0; (8664), 3, 1, 0; (8745), 4, 1, 0; (8759), 4, 1, 0; (8766), 4, 1, 0; (8774), 4, 1, 0; (8892), 4, 1, 0; (8953), 3, 1, 0; (8972), 8, 2, 8; (8986), 4, 1, 0; (9008), 8, 2, 22; (9103), 4, 1, 0; (9164), 8, 2, 8; (9168), 4, 1, 0; (9208), 4, 1, 0; (9352), 4, 1,

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(35552), 4, 1, 0; (35666), 3, 1, 0; (35679), 4, 1, 0; (35746), 8, 2, 9; (35859), 8, 2, 8; (35953), 4, 1, 0; (36019), 4, 1, 0; (36102), 4, 1, 0; (36125), 8, 2, 8; (36385), 4, 1, 0; (36399), 4, 1, 0; (36403), 4, 1, 0; (36467), 3, 1, 0; (36572), 4, 1, 0; (36843), 4, 1, 0; (37424), 4, 1, 0; (37586), 4, 1, 0; (37751), 4, 1, 0; (37882), 4, 1, 0; (38054), 4, 1, 0; (38123), 4, 1, 0; (38323), 4, 1, 0; (38398), 4, 1, 0; (38489), 4, 1, 0; (38569), 4, 1, 0; (38645), 4, 1, 0; (38841), 8, 2, 8; (39038), 4, 1, 0; (39087), 4, 1, 0; (39512), 4, 1, 0; (39534), 4, 1, 0; (39816), 4, 1, 0; (40282), 4, 1, 0; (40332), 4, 1, 0; (40546), 4, 1, 0; (40582), 4, 1, 0; (40611), 4, 1, 0; (40640), 4, 1, 0; (40717), 4, 1, 0; (40910), 4, 1, 0; (41059), 4, 1, 0; (41064), 4, 1, 0; (41247), 4, 1, 0; (41433), 3, 1, 0; (41451), 4, 1, 0; (41537), 8, 2, 8; (41706), 4, 1, 0; (41781), 3, 1, 0; (41843), 4, 1, 0; (41984), 4, 1, 0; (42229), 4, 1, 0; (42341), 8, 2, 8; (42491), 4, 1, 0; (42644), 4, 1, 0; (42694), 4, 1, 0; (42768), 8, 2, 8; (42808), 4, 1, 0; (42927), 4, 1, 0; (42944), 4, 1, 0; (43044), 4, 1, 0; (43232), 4, 1, 0; (43321), 4, 1, 0; (43331), 4, 1, 0; (43542), 4, 1, 0; (43977), 3, 1, 0; (44064), 4, 1, 0; (44100), 4, 1, 0; (44200), 4, 1, 0; (44220), 4, 1, 0; (44566), 4, 1, 0; (44833), 4, 1, 0; (44918), 4, 1, 0; (45146), 4, 1, 0; (45234), 4, 1, 0; (45583), 4, 1, 0; (45755), 4, 1, 0; (45856), 8, 2, 9; (45878), 4, 1, 0; (45900), 4, 1, 0; (45921), 4, 1, 0; (46148), 4, 1, 0; (46186), 4, 1, 0; (46304), 4, 1, 0; (46833), 4, 1, 0; (47375), 4, 1, 0; (47386), 4, 1, 0; (48624), 4, 1, 0; (48940), 4, 1, 0; (49242), 3, 1, 0; (49313), 8, 2, 8; (49968), 3, 1, 0; (50596), 4, 1, 0; (50744), 4, 1, 0; (51292), 3, 1, 0; (51375), 4, 1, 0; (52531), 4, 1, 0; (53308), 4, 1, 0; (53552), 4, 1, 0; (53672), 3, 1, 0; (53886), 4, 1, 0; (54418), 4, 1, 0; (54432), 4, 1, 0; (54560), 4, 1, 0; (54605), 4, 1, 0; (54897), 4, 1, 0; (54933), 8, 2, 8; (55328), 4, 1, 0; (55350), 4, 1, 0; (55378), 4, 1, 0; (55651), 4, 1, 0; (55681), 3, 1, 0; (55986), 4, 1, 0; (56012), 4, 1, 0; (56043), 4, 1, 0; (56152), 4, 1, 0; (56207), 4, 1, 0; (56296), 4, 1, 0; (56380), 4, 1, 0; (56565), 4, 1, 0; (56573), 4, 1, 0; (56713), 4, 1, 0; (56720), 4, 1, 0; (56879), 4, 1, 0; (56923), 4, 1, 0; (56950), 4, 1, 0; (57255), 7, 2, 9; (57276), 4, 1, 0; (57292), 4, 1, 0; (57359), 4, 1, 0; (57738), 3, 1, 0; (57786), 4, 1, 0; (57903), 4, 1, 0; (58686), 4, 1, 0; (58847), 4, 1, 0; (58859), 4, 1, 0; (58896), 4, 1, 0; (59112), 4, 1, 0; (59143), 4, 1, 0; (59457), 4, 1, 0; (59520), 3, 1, 0; (59535), 4, 1, 0; (59558), 4, 1, 0; (59629), 4, 1, 0; (59630), 4, 1, 0; (59662), 4, 1, 0; (59723), 4, 1, 0; (59768), 4, 1, 0; (59915), 4, 1, 0; (60065), 4, 1, 0; (60265), 4, 1, 0; (60824), 3, 1, 0; (60888), 3, 1, 0; (61182), 4, 1, 0; (61185), 4, 1, 0; (61348), 4, 1, 0; (61457), 4, 1, 0; (61990), 4, 1, 0; (62105), 4, 1, 0; (62195), 4, 1, 0; (62396), 4, 1, 0; (63084), 3, 1, 0; (63617), 4, 1, 0; (63676), 4, 1, 0; (64506), 4, 1, 0; (64576), 4, 1, 0; (64657), 4, 1, 0; (64904), 4, 1, 0; (65141), 4, 1, 0; (65657), 4, 1, 0; (65707), 4, 1, 0; (65799), 4, 1, 0; (65820), 3, 1, 0; (66174), 8, 2, 8; (66307), 4, 1, 0; (66406), 3, 1, 0; (67009), 4, 1, 0; (67015), 8, 1, 0; (67124), 4, 1, 0; (67296), 4, 1, 0; (67371), 4, 1, 0; (67794), 4, 1, 0; (67902), 4, 1, 0; (68063), 4, 1, 0; (68178), 4, 1, 0; (68299), 8, 1, 0; (68781), 3, 1, 0; (68875), 4, 1, 0; (69377), 4, 1, 0; (69829), 4, 1, 0; (69942), 4, 1, 0; (70414), 4, 1, 0; (71085), 3, 1, 0; (71173), 4, 1, 0; (71754), 4, 1, 0; (72236), 4, 1, 0; (73695), 4, 1, 0; (74487), 4, 1, 0; (74610), 4, 1, 0; (74755), 4, 1, 0; (74898), 4, 1, 0; (75067), 4, 1, 0; (75317), 4, 1, 0; (75558), 3, 1, 0; (76172), 4, 1, 0; (76187), 4, 1, 0; (76996), 3, 1, 0; (77668), 4, 1, 0; (77760), 4, 1, 0; (78155), 4, 1, 0; (78919), 4, 1, 0; (78982), 4, 1, 0; (79338), 4, 1, 0; (79532), 4, 1, 0; (79567), 4, 1, 0; (81434), 4, 1, 0; (81745), 4, 1, 0; (82213), 3, 1, 0; (82526), 4, 1, 0; (82990), 4, 1, 0; (83490), 4, 1, 0; (84068), 4, 1, 0; (85560), 3, 1, 0; (86056), 4, 1, 0; (86202), 4, 1, 0; (86334), 4, 1, 0; (86360), 4, 1, 0; (86361), 4, 1, 0; (86788), 4, 1, 0; (86907), 4, 1, 0; (86962), 4, 1, 0; (87168), 3, 1, 0; (87252), 4, 1, 0; (87411), 4, 1, 0; (87588), 4, 1, 0; (87614), 3, 1, 0; (88086), 3, 1, 0; (88186), 3, 1, 0; (88429), 4, 1, 0; (88435), 4, 1, 0; (88496), 4, 1, 0; (88499), 8, 2, 8; (88913), 4, 1, 0; (89045), 3, 1, 0; (89268), 4, 1, 0; (90919), 4, 1, 0; (91004), 4, 1, 0; (91189), 3, 1, 0; (91191), 4, 1, 0; (91381), 8, 2, 5; (91455), 4, 1, 0; (92191), 4, 1, 0; (92590), 4, 1, 0; (92720), 3, 1, 0; (93726), 4, 1, 0; (93784), 4, 1, 0; (94063), 4, 1, 0; (94427), 8, 2, 8; (94649), 4, 1, 0; (94769), 4, 1, 0; (95598), 4, 1, 0; (95783), 4, 1, 0; (95790), 4, 1, 0; (95932), 4, 1, 0; (96617), 4, 1, 0; (96770), 4, 1, 0; (97034), 4, 1, 0; (97992), 4, 1, 0; (98706), 3, 1, 0; (99815), 4, 1, 0; (101071), 4, 1, 0; (101943), 4, 1, 0; (103026), 4, 1, 0; (104651), 3, 1, 0; (105949), 4, 1, 0; (106121), 4, 1, 0; (106671), 4, 1, 0; (106752), 4, 1, 0; (109071), 4, 1, 0; (112762), 4, 1, 0; (113984), 4, 1, 0; (114692), 4, 1, 0; (114813), 4, 1, 0; (114834), 4, 1, 0; (114930), 3, 1, 0; (114957), 4, 1, 0; (115663), 3, 1, 0; (116221), 4, 1, 0; (117909), 4, 1, 0; (118362), 4, 1, 0; (119073), 4, 1, 0; (119320), 4, 1, 0; (119761), 4, 1, 0; (119829), 4, 1, 0; (119884), 4, 1, 0; (120576), 4, 1, 0; (120641), 3, 1, 0; (121036), 4, 1, 0; (121231), 3, 1, 0; (121775), 3, 1, 0; (122311), 4, 1, 0; (122859), 4, 1, 0; (123387), 4, 1, 0; (126620), 4, 1, 0; (127172), 4, 1, 0; (128314), 4, 1, 0; (128362), 4, 1, 0; (128394), 4, 1, 0; (130082), 4, 1, 0; (130601), 4, 1, 0; (130838), 4, 1, 0; (131626), 4, 1, 0; (131675), 4, 1, 0; (136541), 4, 1, 0; (137877), 4, 1, 0; (137999), 8, 1, 0; (139458), 4, 1, 0; (141111), 3, 1, 0; (145831), 4, 1, 0; (149292), 4, 1, 0; (149449), 4, 1, 0; (155306), 4, 1, 0; (155376), 4, 1, 0; (155539), 4, 1, 0; (155691), 3, 1, 0; (157884), 4, 1, 0; (158072), 3, 1, 0; (159388), 4, 1, 0; (159857), 4, 1, 0; (160360), 4, 1, 0; (162406), 3, 1, 0; (162510), 4, 1, 0; (162572), 4, 1, 0; (163057), 3, 1, 0; (163601), 4, 1, 0; (165338), 4, 1, 0; (167721), 3, 1, 0; (173205), 3, 1, 0; (177529), 4, 1, 0; (183466), 4, 1, 0; (186620), 3, 1, 0; (186908), 4, 1, 0; (189118), 4, 1, 0; (190300), 4, 1, 0; (190448), 3, 1, 0; (190640), 4, 1, 0; (191589), 4, 1, 0; (191843), 3, 1, 0; (193956), 4, 1, 0; (198943), 3, 1, 0; (200584), 3, 1, 0; (208012), 4, 1, 0; (208662), 4, 1, 0; (211042), 4, 1, 0; (215592), 3, 1, 0; (223262), 4, 1, 0; (228320), 4, 1, 0; (228578), 4, 1, 0; (234242), 4, 1, 0; (238440), 4, 1, 0; (242208), 4, 1, 0; (247769), 3, 1, 0; (250803), 3, 1, 0; (251847), 3, 1, 0; (260186), 3, 1, 0; (264434), 4, 1, 0; (270324), 4, 1, 0; (282043), 4, 1, 0; (283460), 3, 1, 0; (313064), 2, 1, 0; (314441), 3, 1, 0; (316934), 3, 1, 0; (326732), 3, 1, 0; (333901), 4, 1, 0; (334740), 3, 1, 0; (337115), 4, 1, 0; (357063), 4, 1, 0; (359023), 3, 1, 0; (364647), 3, 1, 0; (365455), 3, 1, 0; (371930), 3, 1, 0; (373280), 4, 1, 0; (405508), 4, 1, 0; (459998), 4, 1, 0; (468338), 3, 1, 0; (491240), 4, 1, 0; *[4207, 1011, 0∗, 2021/08/11–2021/09/11]*

N88 Xingming Observatory #3, Nanshan

Observer X. Gao. Measurer Q.-Z. Ye. 0.6-m $f/8$ Ritchey-Chrétien + CCD.

2021 RT_1, 4, 1, 0; 2021 RG_2, 5, 1, 0; 2021 RH_2, 5, 1, 0; 2021 RS_2, 3, 1, 0; 2021 RW_2, 5, 1, 0; 2021 RS_5, 5, 1, 0; 2021 RU_7, 5, 1, 0; 2021 RA_8, 5, 1, 0; 2021 SG, 2, 1, 0; 2021 SH, 2, 1, 0; 2021 SJ, 2, 1, 0; *[43, 11, 0∗, 2021/09/06–2021/09/17]*

O85 LiShan Observatory, Lintong

Observers Y. Yu, K. Tang, A. Pomazan. 0.50-m $f/7.0$ Cassegrain + CCD.

2021 CA_6, 22, 1, 0; *[22, 1, 0∗, 2021/02/13]*

P93 Space Tracking and Communications Center, JAXA
Observers S. Urakawa, M. Hagino. 1.0-m $f/3.0$ reflector + CCD.

2021 PY_{40}, 5, 1, 0; 2021 QK_1, 3, 1, 0; *[8, 2, 0∗, 2021/08/28–2021/08/29]*

Q11 Shinshiro
Observer T. Ikemura. Measurer H. Sato. 0.35-m $f/5$ reflector + CCD.

(1328), 3, 1, 0; (12892), 3, 1, 0; (17019), 3, 1, 0; (32310), 4, 1, 0; (42334), 4, 1, 0; (42491), 3, 1, 0; (42889), 4, 1, 0; (58540), 4, 1, 0; (94751), 4, 1, 0; (248370), 3, 1, 0; *[35, 10, 0∗, 2021/08/27–2021/08/30]*

Q21 Southern Utsunomiya
Observer H. Nohara. 0.4-m $f/3.8$ astrograph + CCD.

2019 UD_4, 2, 1, 0; (2), 2, 1, 0; (3), 2, 1, 0; (43), 2, 1, 0; (217), 2, 1, 0; (468), 2, 1, 0; (788), 2, 1, 0; (942), 2, 1, 0; (1618), 2, 1, 0; (1848), 2, 1, 0; (2644), 2, 1, 0; (3423), 2, 1, 0; (3549), 2, 1, 0; (3776), 2, 1, 0; (4183), 2, 1, 0; (5925), 2, 1, 0; (7694), 2, 1, 0; (8377), 2, 1, 0; (8537), 2, 1, 0; (10514), 2, 1, 0; (10843), 2, 1, 0; (12182), 2, 1, 0; (13692), 2, 1, 0; (16237), 2, 1, 0; (16574), 2, 1, 0; (16608), 2, 1, 0; (17041), 2, 1, 0; (18316), 2, 1, 0; (20918), 2, 1, 0; (21766), 2, 1, 0; (22254), 2, 1, 0; (23741), 2, 1, 0; (25243), 2, 1, 0; (25419), 2, 1, 0; (27572), 2, 1, 0; (29362), 2, 1, 0; (32899), 2, 1, 0; (32985), 2, 1, 0; (33804), 2, 1, 0; (35582), 2, 1, 0; (39879), 2, 1, 0; (41821), 2, 1, 0; (43421), 2, 1, 0; (45278), 2, 1, 0; (54480), 2, 1, 0; (55018), 2, 1, 0; (58247), 2, 1, 0; (66368), 2, 1, 0; (67166), 2, 1, 0; (70773), 2, 1, 0; (71210), 2, 1, 0; (79280), 2, 1, 0; (83427), 2, 1, 0; (88250), 2, 1, 0; (89207), 2, 1, 0; (94234), 2, 1, 0; (95696), 2, 1, 0; (100416), 2, 1, 0; (109306), 2, 1, 0; (120334), 2, 1, 0; (120576), 2, 1, 0; (120955), 2, 1, 0; (134340), 2, 1, 0; (139677), 2, 1, 0; (140472), 2, 1, 0; (146969), 2, 1, 0; (147449), 2, 1, 0; (147678), 2, 1, 0; (155718), 2, 1, 0; (160342), 2, 1, 0; (162621), 2, 1, 0; (202757), 2, 1, 0; (203681), 2, 1, 0; (237600), 2, 1, 0; (242208), 2, 1, 0; (248370), 2, 1, 0; (269342), 2, 1, 0; (298853), 2, 1, 0; (302166), 2, 1, 0; (314655), 2, 1, 0; (326732), 2, 1, 0; (382436), 2, 1, 0; *[164, 82, 0∗, 2021/08/10–2021/08/18]*

Q33 Nayoro Observatory, Hokkaido University
Observer F. Watanabe.

(6208), 10, 1, 0; (14925), 10, 1, 0; (14927), 10, 1, 0; *[30, 3, 0∗, 2021/09/02–2021/09/04]*

Q60 ISON-SSO Observatory, Siding Spring
Observer L. Elenin. 0.4-m $f/2.4$ reflector + CCD.

2015 OX_{151}, 3, 1, 0; *[3, 1, 0∗, 2015/08/08]*

Q62 iTelescope Observatory, Siding Spring
Observer H. Sato. 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer. (01)
Observer M. Urbanik. 0.50-m $f/6.8$ reflector + CCD. (02)
Observer C. Jacques. 0.28-m $f/2.2$ astrograph + CCD. (05)
Observer N. Falla. 0.51-m $f/4.4$ reflector + CCD. (08)
Observer M. Suzuki. 0.5-m $f/4.5$ reflector + CCD. (25)
Observer J.-C. Merlin. 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer. (49)
Observers G. Gašparović, Y. Chen. Measurers G. Gašparović, Y. Chen, G. Y. Gasparovic. 0.51-m $f/6.8$ reflector + CCD + focal reducer, 0.50-m $f/6.8$ reflector + CCD. (54)
Observer R. Reed. 0.51-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer. (62)
Observers G. Gašparović, Y. Chen. Measurer G. Blasco. 0.51-m $f/6.8$ reflector + CCD + focal reducer. (77)

{1} 2021 PZ_{16}, 3, 1, 0; 2021 PA_{17}, 3, 1, 0; 2021 PE_{20}, 4, 2, 2; 2021 PF_{20}, 2, 1, 0; 2021 PH_{27}, 2, 1, 0; *[14, 5, 0∗, 2021/08/13–2021/08/18]*

{2} 2021 RX_5, 3, 1, 0; *[3, 1, 0∗, 2021/09/09]*

{5} 2021 RX_5, 3, 1, 0; *[3, 1, 0∗, 2021/09/09]*

{8} 2006 YY_{12}, 4, 1, 0; 2009 SP_{123}, 4, 1, 0; 2016 LO_{77}, 4, 1, 0; 2021 PZ_{15}, 4, 1, 0; (18039), 4, 1, 0; (116757), 5, 1, 0; (156192), 3, 1, 0; (209460), 4, 1, 0; (230877), 4, 1, 0; (401596), 4, 1, 0; *[40, 10, 0∗, 2021/08/31–2021/09/09]*

{49} 2016 GO_{309}, 15, 3, 2; 2017 VY_{51}, 3, 1, 0; (1616), 4, 1, 0; (4681), 4, 1, 0; (4953), 4, 1, 0; (6024), 4, 1, 0; (6031), 8, 2, 1; (7769), 3, 1, 0; (8919), 4, 1, 0; (9117), 3, 1, 0; (10885), 4, 1, 0; (11899), 11, 3, 2; (16895), 4, 1, 0; (17514), 7, 2, 1; (20176), 4, 1, 0; (21181), 3, 1, 0; (23255), 4, 1, 0; (23394), 14, 3, 2; (28381), 4, 1, 0; (29309), 3, 1, 0; (29716), 8, 2, 2; (30706), 4, 1, 0; (30961), 12, 2, 1; (30995), 4, 1, 0; (31672), 4, 1, 0; (32488), 8, 2, 2; (33475), 3, 1, 0; (33665), 4, 1, 0; (34248), 4, 1, 0; (34556), 4, 1, 0; (35254), 4, 1, 0; (36727), 4, 1, 0; (38820), 3, 1, 0; (38892), 3, 1, 0; (39775), 3, 1, 0; (40738), 4, 1, 0; (43445), 4, 1, 0; (53331), 4, 1, 0; (54511), 4, 1, 0; (56317), 4, 1, 0; (58818), 4, 1, 0; (59318), 4, 1, 0; (59589), 3, 1, 0; (59668), 4, 1, 0; (59957), 4, 1, 0; (62454), 3, 1, 0; (62465), 4, 1, 0; (64361), 3, 1, 0; (66281), 3, 1, 0; (67511), 4, 1, 0; (69749), 3, 1, 0; (71400), 4, 1, 0; (72687), 4, 1, 0; (83782), 3, 1, 0; (87064), 4, 1, 0; (88137), 3, 1, 0; (89694), 4, 1, 0; (90257), 4, 1, 0; (91576), 4, 1, 0; (92541), 4, 1, 0; (94584), 3, 1, 0; (105233), 3, 1, 0; (110574), 4, 1, 0; (111172), 4, 1, 0; (111677), 7, 2, 9; (130174), 4, 1, 0; (130878), 4, 1, 0; (131609), 3, 1, 0; (139197), 3, 1, 0; (140591), 3, 1, 0; (141072), 4, 1, 0; (144819), 4, 1, 0; (146235), 4, 1, 0; (147848), 4, 1, 0; (154967), 4, 1, 0; (157667), 4, 1, 0; (159271), 4, 1, 0; (163242), 3, 1, 0; (163346), 4, 1, 0; (181859), 3, 1, 0; (184882), 4, 1, 0; (185683), 4, 1, 0; (189828), 3, 1, 0; (191740), 4, 1, 0; (192014), 4, 1, 0; (193622), 4, 1, 0; (204214), 3, 1, 0; (210908), 3, 1, 0; (213396), 3, 1, 0; (215358), 4, 1, 0; (217113), 3, 1, 0; (222550), 3, 1, 0; (229879), 3, 1, 0; (238647), 3, 1, 0; (240758), 4, 1, 0; (241619), 11, 3, 2; (243046), 3, 1, 0; (243619), 4, 1, 0; (259036), 3, 1, 0; (259524), 4, 1, 0; (261049), 4, 1, 0; (277013), 4, 1, 0; (284740), 3, 1, 0; (340470), 4, 1, 0; (359915), 3, 1, 0; (377414), 4, 1, 0; (380195), 4, 1, 0; (394036), 3, 1, 0; (394837), 4, 1, 0; (399172), 7, 1, 0; (403520), 3, 1, 0; (430453), 4, 1, 0; (464828), 8, 2, 12; (522627), 4, 1, 0; (567460), 3, 1, 0; *[490, 115, 0∗, 2021/08/28–2021/09/15]*

{54} 2021 PE_{61}, 9, 3, 7; (1554), 3, 1, 0; (3064), 3, 1, 0; (4755), 3, 1, 0; (13129), 6, 2, 2; (51847), 3, 1, 0; (61118), 5, 2, 1; (200618), 3, 1, 0; *[35, 8, 0∗, 2021/08/10–2021/09/09]*

{62} 2021 PV, 3, 1, 0; 2021 PG_7, 3, 1, 0; 2021 QA, 3, 1, 0; 2021 QJ_6, 2, 1, 0; 2021 RS, 3, 1, 0; 2021 RD_2, 2, 1, 0; 2021 RQ_3, 3, 1, 0; *[19, 7, 0∗, 2021/08/13–2021/09/16]*

{25} 2010 RJ_{53}, 4, 1, 0; *[4, 1, 0∗, 2021/09/10]*

{77} 2009 NR, 2, 1, 0; 2014 SS_{377}, 2, 1, 0; (9452), 3, 1, 0; (32311), 3, 1, 0; (44736), 3, 1, 0; (55285), 3, 1, 0; (165410), 3, 1, 0; *[19, 7, 0∗, 2021/08/12]*

Q63 Siding Spring-LCO A
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, M. Micheli, T. Santana-Ros, L. Conversi, W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto, P. Breitenstein. Measurers T. Lister, M. Micheli, W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache, P. Breitenstein. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD, 1.0-m Ritchey-Chrétien + CCD.

2010 NV_9, 6, 1, 0; 2017 FE_{179}, 6, 1, 0; 2017 OF_{67}, 5, 1, 0; 2017 RJ_{136}, 5, 1, 0; 2017 UR_{12}, 6, 1, 0; 2017 WG_{27}, 6, 1, 0; 2020 GV_{14}, 6, 1, 0; 2021 NY_1, 6, 1, 0; 2021 PH_{27}, 5, 1, 0; 2021 QA_1, 4, 1, 0; 2021 QC_1, 3, 1, 0; 2021 SA, 3, 1, 0; (1771), 6, 1, 0; (22185), 6, 1, 0; (57706), 6, 1, 0; (90363), 10, 1, 0; (102295), 6, 1, 0; (125214), 5, 1, 0; (224674), 6, 1, 0; (237016), 6, 1, 0; (255795), 6, 1, 0; (442470), 6, 1, 0; (507100), 5, 1, 0; (510432), 2, 1, 0; (539730), 5, 1, 0; *[136, 25, 0∗, 2021/07/04–2021/09/16]*

Q64 Siding Spring-LCO B
Observers R. Mendez, S. Bouquillon, D. Souami, F. Spoto, W. Thuillot, M. Altmann, T. Santana-Ros, L. Conversi, M. Micheli. Measurers W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache, F. Spoto, M. Micheli, R. Reszelewski. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD.

2005 WA_{214}, 11, 1, 0; 2018 UJ_{31}, 5, 1, 0; 2019 JQ_3, 6, 1, 0; 2021 PE_{20}, 3, 1, 0; 2021 QV_3, 2, 1, 0; (17615), 6, 1, 0; (43412), 6, 1, 0; (74016), 6, 1, 0; (96853), 6, 1, 0; (210244), 6, 1, 0; (249173), 6, 1, 0; (379310), 6, 1, 0; (385290), 6, 1, 0; (433459), 6, 1, 0; (569272), 4, 1, 0; *[85, 15, 0∗, 2019/05/06–2021/09/05]*

Q70 Glenlee Observatory, Glenlee
Observer S. Kerr.

2005 OG_3, 4, 1, 0; *[4, 1, 0∗, 2021/08/17]*

Q81 Caloundra West
Observer W. Conlon.

(15499), 5, 1, 0; (22087), 8, 1, 0; (27466), 4, 1, 0; (55899), 4, 1, 0; (79986), 6, 1, 0; *[27, 5, 0∗, 2021/08/28]*

R65 R. F. Joyce Observatory, Christchurch

Observer R. B. Glassey. 0.4-m f/8.0 Schmidt-Cassegrain + CCD.

2021 QB_3, 3, 1, 0; 2021 QL_3, 3, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 3, 1, 0; (237805), 3, 1, 0; (250680), 6, 2, 25; *[21, 6, 0∗, 2021/08/14–2021/09/08]*

R66 Mooray Observatory, Christchurch

Observer R. B. Glassey. 0.15-m f/5.0 Newtonian reflector + CCD.

(1569), 6, 2, 2; (1902), 6, 2, 2; (7191), 6, 2, 2; (11079), 6, 2, 2; (37186), 6, 2, 2; (43369), 6, 2, 2; (52750), 6, 2, 2; *[42, 7, 0∗, 2021/09/15–2021/09/17]*

T04 Haleakala-LCO OGG B #2

Observers T. Santana-Ros, M. Micheli, L. Conversi. Measurer M. Micheli. 0.4-m reflector + CCD.

2021 PG_5, 4, 1, 0; *[4, 1, 0∗, 2021/08/11]*

T05 ATLAS-HKO, Haleakala

Observers L. Denneau, J. Tonry, H. Weiland, A. Heinze, H. Flewelling, B. Stalder, A. Sherstyuk. Measurers L. Denneau, J. Tonry, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus, A. Heinze, H. Flewelling, D. Young, B. Stalder. 0.5-m reflector + CCD, 0.5-m f/2.0 Schmidt + CCD.

1996 CS_9, 4, 1, 0; 1996 RK_{23}, 22, 4, 24; 1997 SV_7, 4, 1, 0; 1998 SL_{36}, 4, 1, 0; 1998 UQ_1, 4, 1, 0; 1999 FD_{100}, 4, 1, 0; 1999 RV_4, 4, 1, 0; 1999 RY_{86}, 12, 3, 19; 1999 RZ_{259}, 4, 1, 0; 1999 TM_{195}, 4, 1, 0; 1999 VK_{233}, 4, 1, 0; 2000 LG_{10}, 12, 3, 17; 2000 PN_8, 8, 2, 4; 2000 PA_{13}, 4, 1, 0; 2000 QC_7, 24, 6, 25; 2000 QA_{115}, 10, 2, 8; 2000 QB_{148}, 4, 1, 0; 2000 QS_{211}, 12, 3, 13; 2000 RP_{52}, 22, 5, 32; 2000 RO_{53}, 7, 1, 0; 2000 SX_{23}, 4, 1, 0; 2000 SN_{34}, 8, 2, 8; 2000 SS_{51}, 4, 1, 0; 2000 SC_{190}, 20, 5, 16; 2000 SE_{205}, 4, 1, 0; 2000 SO_{303}, 16, 4, 29; 2000 TM_{42}, 15, 3, 11; 2000 WC_{79}, 4, 1, 0; 2000 WU_{200}, 12, 3, 16; 2001 EC, 23, 6, 23; 2001 GQ_5, 18, 4, 24; 2001 KB_{10}, 4, 1, 0; 2001 PO_{13}, 23, 5, 20; 2001 PW_{67}, 4, 1, 0; 2001 SY_{356}, 5, 1, 0; 2001 TR_{262}, 20, 4, 28; 2001 UP_{164}, 4, 1, 0; 2001 UG_{197}, 6, 1, 0; 2001 WU_{15}, 4, 1, 0; 2002 QQ_{15}, 27, 5, 32; 2002 QO_{24}, 27, 6, 19; 2002 QG_{46}, 37, 8, 27; 2002 RR_{25}, 12, 3, 13; 2002 RO_{137}, 12, 3, 11; 2002 RO_{202}, 16, 4, 16; 2002 RX_{276}, 13, 3, 26; 2002 SX_{74}, 5, 1, 0; 2002 TX_{114}, 16, 4, 24; 2002 WV_{31}, 5, 1, 0; 2003 KT_{18}, 8, 2, 4; 2003 NC_{14}, 4, 1, 0; 2003 QA, 4, 1, 0; 2003 QW_{34}, 4, 1, 0; 2003 QF_{76}, 16, 4, 24; 2003 QJ_{92}, 6, 1, 0; 2003 QS_{94}, 28, 6, 24; 2003 SA_{18}, 4, 1, 0; 2003 SL_{119}, 4, 1, 0; 2003 SC_{145}, 16, 4, 21; 2003 SK_{202}, 8, 2, 2; 2003 SV_{208}, 4, 1, 0; 2003 ST_{328}, 4, 1, 0; 2003 SE_{332}, 4, 1, 0; 2003 SQ_{332}, 20, 5, 20; 2003 SN_{472}, 8, 2, 8; 2003 UK_{205}, 8, 2, 8; 2003 UQ_{421}, 4, 1, 0; 2003 VJ_8, 4, 1, 0; 2003 WM_{217}, 4, 1, 0; 2003 YM_{60}, 4, 1, 0; 2004 FB_{97}, 8, 2, 4; 2004 LF_2, 8, 2, 3; 2004 MJ_3, 16, 4, 32; 2004 NV_{19}, 15, 4, 27; 2004 OP_{10}, 23, 5, 28; 2004 OL_{17}, 4, 1, 0; 2004 PB_{43}, 8, 2, 16; 2004 PY_{47}, 38, 8, 27; 2004 PT_{68}, 18, 4, 32; 2004 PF_{97}, 18, 4, 36; 2004 PN_{119}, 4, 1, 0; 2004 PS_{120}, 4, 1, 0; 2004 QS_8, 4, 1, 0; 2004 RJ_5, 8, 2, 2; 2004 RN_{10}, 16, 4, 20; 2004 RK_{14}, 9, 2, 3; 2004 RF_{49}, 4, 1, 0; 2004 RZ_{79}, 12, 3, 9; 2004 RG_{83}, 5, 1, 0; 2004 RT_{123}, 8, 2, 24; 2004 RM_{136}, 4, 1, 0; 2004 RL_{201}, 8, 2, 8; 2004 RL_{204}, 12, 3, 32; 2004 RF_{207}, 24, 6, 27; 2004 RP_{222}, 12, 3, 16; 2004 RL_{311}, 8, 2, 4; 2004 RN_{315}, 10, 2, 4; 2004 RX_{331}, 4, 1, 0; 2004 RX_{338}, 4, 1, 0; 2004 TN_{102}, 8, 2, 12; 2004 TD_{120}, 14, 3, 20; 2004 TM_{222}, 16, 4, 23; 2004 TA_{272}, 5, 1, 0; 2004 TV_{305}, 17, 3, 8; 2004 VO_{134}, 4, 1, 0; 2004 VC_{136}, 17, 3, 16; 2004 XM, 8, 2, 16; 2004 XW_{102}, 16, 4, 28; 2004 XE_{188}, 20, 5, 32; 2005 BJ_{35}, 8, 2, 12; 2005 NC_{69}, 30, 5, 24; 2005 OG_3, 12, 3, 8; 2005 QO_{10}, 23, 5, 13; 2005 QN_{11}, 8, 2, 13; 2005 QS_{74}, 8, 2, 8; 2005 QA_{77}, 8, 2, 5; 2005 QQ_{84}, 4, 1, 0; 2005 QX_{149}, 18, 4, 24; 2005 QC_{162}, 4, 1, 0; 2005 QA_{173}, 4, 1, 0; 2005 RS_{20}, 4, 1, 0; 2005 RO_{33}, 24, 6, 24; 2005 SN_1, 4, 1, 0; 2005 SG_{66}, 4, 1, 0; 2005 SJ_{122}, 4, 1, 0; 2005 SN_{134}, 4, 1, 0; 2005 SE_{289}, 4, 1, 0; 2005 TO_{13}, 23, 5, 24; 2005 TR_{45}, 19, 5, 28; 2005 UB_{195}, 5, 1, 0; 2005 US_{536}, 4, 1, 0; 2005 UO_{540}, 8, 2, 32; 2006 DH_{99}, 4, 1, 0; 2006 LA, 4, 1, 0; 2006 MT_{15}, 4, 1, 0; 2006 PZ_{16}, 20, 5, 32; 2006 QL_{33}, 28, 7, 24; 2006 QA_{35}, 19, 4, 20; 2006 QE_{149}, 4, 1, 0; 2006 QG_{194}, 12, 3, 8; 2006 RU_{31}, 4, 1, 0; 2006 UT_{390}, 10, 2, 3; 2006 WU_{209}, 36, 7, 30; 2007 BJ_{104}, 5, 1, 0; 2007 LX, 4, 1, 0; 2007 NX_1, 8, 2, 20; 2007 OT_4, 12, 3, 20; 2007 OB_{11}, 9, 2, 1; 2007 PT_{10}, 16, 4, 24; 2007 PK_{29}, 4, 1, 0; 2007 PV_{30}, 16, 4, 21; 2007 PA_{44}, 4, 1, 0; 2007 QM_4, 4, 1, 0; 2007 RT_{18}, 5, 1, 0; 2007 RA_{72}, 4, 1, 0; 2007 TA_{25}, 4, 1, 0; 2007 TG_{25}, 29, 7, 28; 2007 TX_{33}, 4, 1, 0; 2007 TG_{47}, 4, 1, 0; 2007 TU_{122}, 4, 1, 0; 2007 TN_{184}, 13, 3, 28; 2007 TE_{325}, 12, 2, 1; 2007 TP_{453}, 8, 2, 4; 2007 VF_{39}, 8, 2, 12; 2007 WC_{66}, 8, 2, 4; 2007 YJ_{76}, 4, 1, 0; 2007 YY_{77}, 4, 1, 0; 2008 CD_6, 4, 1, 0; 2008 CT_{136}, 4, 1, 0; 2008 GO_{20}, 4, 1, 0; 2008 JZ_7, 8, 2, 12; 2008 JA_9, 4, 1, 0; 2008 LW_7, 13, 3, 24; 2008 LR_{18}, 4, 1, 0; 2008 NL_1, 4, 1, 0; 2008 OK_{12}, 5, 1, 0; 2008 OD_{26}, 8, 2, 4; 2008 QB_{12}, 4, 1, 0; 2008 QK_{28}, 4, 1, 0; 2008 QG_{31}, 19, 4, 24; 2008 RY_{21}, 4, 1, 0; 2008 RD_{48}, 18, 4, 6; 2008 RD_{88}, 11, 2, 4; 2008 RJ_{139}, 16, 4, 23; 2008 SN_1, 8, 2, 12; 2008 SF_2, 4, 1, 0; 2008 SO_{11}, 4, 1, 0; 2008 SP_{64}, 12, 3, 27; 2008 SS_{68}, 18, 4, 24; 2008 SS_{145}, 4, 1, 0; 2008 SX_{148}, 4, 1, 0; 2008 SJ_{159}, 12, 3, 20; 2008 SZ_{291}, 4, 1, 0; 2008 SK_{314}, 8, 2, 16; 2008 TE_7, 24, 5, 12; 2008 TS_{217}, 6, 1, 0; 2008 UP_{166}, 4, 1, 0; 2008 UU_{338}, 4, 1, 0; 2008 UU_{392}, 12, 3, 12; 2008 VV_{80}, 27, 6, 25; 2008 VZ_{82}, 12, 3, 32; 2008 VG_{85}, 4, 1, 0; 2009 QH_6, 20, 5, 10; 2009 UZ_{64}, 4, 1, 0; 2009 VS_{70}, 4, 1, 0; 2009 WW_{248}, 8, 2, 2; 2010 AC, 4, 1, 0; 2010 BQ_{66}, 16, 4, 28; 2010 CZ_{175}, 11, 2, 3; 2010 EX_{95}, 4, 1, 0; 2010 FN_{31}, 5, 1, 0; 2010 HA_{57}, 4, 1, 0; 2010 JG_6, 8, 2, 3; 2010 JG_{65}, 4, 1, 0; 2010 JM_{151}, 8, 2, 4; 2010 KL_{12}, 8, 2, 4; 2010 KH_{51}, 4, 1, 0; 2010 KU_{84}, 8, 2, 20; 2010 KS_{112}, 4, 1, 0; 2010 LC_{38}, 5, 1, 0; 2010 LZ_{72}, 4, 1, 0; 2010 LF_{86}, 4, 1, 0; 2010 LQ_{108}, 12, 3, 8; 2010 LH_{121}, 8, 2, 4; 2010 MR_5, 9, 2, 11; 2010 MN_{22}, 22, 5, 28; 2010 MJ_{25}, 8, 2, 32; 2010 ME_{29}, 4, 1, 0; 2010 MA_{42}, 19, 3, 3; 2010 MO_{51}, 18, 4, 36; 2010 MX_{95}, 13, 3, 28; 2010 ME_{99}, 6, 1, 0; 2010 NG_1, 4, 1, 0; 2010 NK_{24}, 5, 1, 0; 2010 NL_{57}, 8, 2, 20; 2010 NB_{76}, 4, 1, 0; 2010 OD_2, 4, 1, 0; 2010 OP_{94}, 4, 1, 0; 2010 OE_{101}, 8, 2, 12; 2010 OE_{117}, 4, 1, 0; 2010 PQ_8, 8, 2, 28; 2010 PB_{27}, 8, 2, 4; 2010 QH, 9, 1, 0; 2010 QO, 6, 1, 0; 2010 QL_4, 15, 3, 2; 2010 RD_{48}, 12, 3, 8; 2010 RR_{49}, 4, 1, 0; 2010 RG_{62}, 4, 1, 0; 2010 RY_{70}, 4, 1, 0; 2010 RQ_{71}, 8, 2, 6; 2010 RC_{75}, 4, 1, 0; 2010 RK_{82}, 8, 2, 4; 2010 SO_{11}, 8, 2, 1; 2010 SO_{29}, 4, 1, 0; 2010 TJ_{50}, 8, 2, 24; 2010 TA_{164}, 4, 1, 0; 2010 TG_{177}, 20, 4, 16; 2010 TF_{225}, 12, 3, 2; 2010 VU_{20}, 4, 1, 0; 2010 VV_{37}, 4, 1, 0; 2010 VB_{198}, 8, 2, 16; 2011 CW_{11}, 4, 1, 0; 2011 FR_{87}, 4, 1, 0; 2011 LD_{20}, 11, 3, 16; 2011 LU_{26}, 16, 4, 19; 2011 MU_{12}, 4, 1, 0; 2011 NZ_4, 24, 6, 32; 2011 PW_5, 14, 3, 16; 2011 QV_{18}, 8, 2, 4; 2011 QY_{114}, 12, 2, 4; 2011 SZ_{21}, 13, 3, 24; 2011 SR_{110}, 4, 1, 0; 2011 SO_{111}, 24, 6, 24; 2011 SJ_{118}, 16, 4, 24; 2011 SK_{207}, 4, 1, 0; 2011 SN_{334}, 4, 1, 0; 2011 UN_{159}, 18, 3, 4; 2011 UC_{292}, 11, 3, 15; 2011 UZ_{306}, 8, 2, 24; 2011 UM_{331}, 4, 1, 0; 2011 UH_{396}, 6, 1, 0; 2011 UB_{439}, 12, 3, 13; 2011 WD_{43}, 4, 1, 0; 2011 WU_{111}, 20, 4, 23; 2011 YQ_{10}, 40, 9, 37; 2011 YR_{10}, 35, 7, 29; 2012 BU_{97}, 4, 1, 0; 2012 CB_{13}, 8, 2, 12; 2012 DF_{126}, 20, 5, 20; 2012 ES_{20}, 4, 1, 0; 2012 HF, 19, 5, 27; 2012 HL_{88}, 4, 1, 0; 2012 JX_{19}, 4, 1, 0; 2012 JG_{42}, 4, 1, 0; 2012 KK_{18}, 4, 1, 0; 2012 LV_7, 8, 2, 16; 2012 LB_{15}, 6, 1, 0; 2012 MW_7, 4, 1, 0; 2012 MZ_{18}, 4, 1, 0; 2012 MA_{19}, 4, 1, 0; 2012 OZ_5, 4, 1, 0; 2012 OP_6, 4, 1, 0; 2012 PQ_{17}, 4, 1, 0; 2012 PP_{31}, 18, 3, 9; 2012 QG_{55}, 4, 1, 0; 2012 RE_6, 13, 2, 1; 2012 RG_{15}, 4, 1, 0; 2012 RK_{44}, 4, 1, 0; 2012 SP_{62}, 8, 1, 0; 2012 SZ_{78}, 4, 1, 0; 2012 TW_{99}, 4, 1, 0; 2012 TC_{169}, 5, 1, 0; 2012 UA, 18, 4, 24; 2012 UX_{67}, 4, 1, 0; 2012 UG_{132}, 12, 3, 8; 2012 UX_{135}, 8, 2, 4; 2012 VC_{77}, 8, 2, 4; 2012 VV_{98}, 8, 2, 4; 2012 XD_{136}, 24, 6, 24; 2013 AV_{100}, 8, 2, 1; 2013 AG_{111}, 16, 4, 28; 2013 BW_{28}, 4, 1, 0; 2013 CO_{33}, 8, 2, 1; 2013 EZ_{23}, 4, 1, 0; 2013 GY_{32}, 4, 1, 0; 2013 HM_{12}, 4, 1, 0; 2013 JU_2, 8, 2, 4; 2013 JU_{78}, 8, 2, 16; 2013 QH_{73}, 12, 3, 20; 2013 QS_{82}, 28, 7, 32; 2013 RG_9, 20, 4, 6; 2013 RV_{96}, 8, 2, 4; 2013 SO, 12, 3, 24; 2013 SB_{100}, 4, 1, 0; 2013 TM_4, 4, 1, 0; 2013 TS_{83}, 4, 1, 0; 2013 TK_{116}, 4, 1, 0; 2013 TF_{129}, 4, 1, 0; 2013 UN_{23}, 4, 1, 0; 2013 VG_4, 16, 4, 24; 2013 VT_{11}, 20, 5, 28; 2013 VH_{32}, 4, 1, 0; 2013 VJ_{32}, 5, 1, 0; 2013 WR_{61}, 12, 3, 24; 2013 WJ_{73}, 4, 1, 0; 2013 WT_{101}, 4, 1, 0; 2013 XE_4, 15, 4, 24; 2013 XJ_{19}, 10, 2, 4; 2013 XP_{37}, 4, 1, 0; 2013 YL_{11}, 4, 1, 0; 2013 YY_{35}, 4, 1, 0; 2014 AT_{11}, 12, 3, 19; 2014 DE_{103}, 4, 1, 0; 2014 EJ_{30}, 4, 1, 0; 2014 EX_{216}, 4, 1, 0; 2014 GL_7, 4, 1, 0; 2014 HV_4, 8, 2, 20; 2014 HO_{129}, 8, 1, 0; 2014 HT_{144}, 12, 3, 28; 2014 JW_{25}, 4, 1, 0; 2014 JE_{47}, 4, 1, 0; 2014 KG_{42}, 7, 1, 0; 2014 KE_{91}, 4, 1, 0; 2014 ML_{21}, 4, 1, 0; 2014 NY_{38}, 26, 6, 23; 2014 NK_{45}, 4, 1, 0; 2014 NH_{52}, 16, 4, 28; 2014 NB_{57}, 4, 1, 0; 2014 NC_{75}, 6, 1, 0; 2014 OR_{298}, 8, 2, 2; 2014 OK_{344}, 4, 1, 0; 2014 PS_{69}, 10, 2, 20; 2014 QE_{362}, 4, 1, 0; 2014 QC_{365}, 4, 1, 0; 2014 QV_{530}, 4, 1, 0; 2014 RO_{17}, 4, 1, 0; 2014 SF_{313}, 4, 1, 0; 2014 SF_{368}, 4, 1, 0; 2014 TH_{12}, 4, 1, 0; 2014 TE_{36}, 8, 2, 4; 2014 TB_{51}, 4, 1, 0; 2014 UC_{23}, 9, 2, 3; 2014 UA_{90}, 10, 2, 1; 2014 UA_{122}, 11, 2, 32; 2014 UU_{192}, 4, 1, 0; 2014 UZ_{272}, 12, 3, 24; 2014 WA_{157}, 4, 1, 0; 2014 WV_{201}, 4, 1, 0; 2014 WE_{322}, 8, 2, 16; 2014 WM_{411}, 4, 1, 0; 2014 WP_{420}, 19, 3, 20; 2014 WK_{500}, 4, 1, 0; 2014 WD_{504}, 4, 1, 0; 2014 XE_{54}, 5, 1, 0; 2014 XF_{54}, 4, 1, 0; 2014 YT_{13}, 12, 3, 8; 2015 AW_{159}, 19, 3, 2; 2015 AA_{262}, 3, 1, 0; 2015 BJ_4, 4, 1, 0; 2015 BH_{68}, 8, 2, 4; 2015 BJ_{231}, 4, 1, 0; 2015 BT_{310}, 11, 2, 1; 2015 BQ_{405}, 18, 3, 4; 2015 BP_{433}, 4, 1, 0; 2015 CB_{39}, 8, 2, 4; 2015 DB_{159}, 12, 3, 8; 2015 EQ_5, 10, 2, 9; 2015 EV_{54}, 6, 1, 0; 2015 FL_{34}, 17, 4, 9; 2015 FV_{197}, 4, 1, 0; 2015 FE_{205}, 4, 1, 0; 2015 FK_{388}, 23, 4, 16; 2015 GZ_{33}, 24, 5, 7; 2015 HU_{176}, 31, 5, 8; 2015 HX_{187}, 4, 1, 0; 2015 JP_{12}, 4, 1, 0; 2015 KA_{100}, 12, 3, 21; 2015 KG_{180}, 4, 1, 0; 2015 LE_{24}, 4, 1, 0; 2015 MP_9, 4, 1, 0; 2015 MT_{28}, 20, 5, 32; 2015 ML_{77}, 12, 3, 24; 2015 MW_{169}, 32, 7, 24; 2015 NT_3, 4, 1, 0; 2015 NM_{14}, 8, 2, 16; 2015 PM_{16}, 4, 1, 0; 2015 QD, 4, 1, 0; 2015 RR_{235}, 4, 1, 0; 2015 SY_6, 20, 5, 23; 2015 TU_{241}, 8, 2, 12; 2015 XX_{147}, 20, 5, 24; 2015 XE_{352}, 8, 2, 8; 2016 AW_{45}, 9, 2, 1; 2016 AJ_{193}, 8, 2, 8; 2016 CF_{248}, 12, 3, 9; 2016 CV_{382}, 4, 1, 0; 2016 EW_{250}, 4, 1, 0; 2016 FV_{17}, 12, 3, 20; 2016 GU_8, 6, 1, 0; 2016 GQ_{29}, 27, 6, 32; 2016 GE_{141}, 13, 3, 20; 2016 GW_{184}, 8, 2, 20; 2016 GF_{219}, 4, 1, 0; 2016 JG_{22}, 12, 3, 24; 2016 JZ_{42}, 15, 3, 3; 2016 LS_{17}, 4, 1, 0; 2016 MZ_6, 4, 1, 0; 2016 NT_{16}, 16, 4, 28; 2016 NK_{64}, 16, 4, 24; 2016 NT_{82}, 4, 1, 0; 2016 NS_{86}, 8, 2, 1; 2016 OK, 8, 2, 7; 2016 QZ_{14}, 8, 2, 3; 2016 QU_{90}, 4, 1, 0; 2016 RM_{11}, 4, 1, 0; 2016 TB_{10}, 4, 1, 0; 2016 TH_{27}, 7, 1, 0; 2016 TA_{35}, 19, 3, 8; 2016 TT_{67}, 13, 3, 4; 2016 TP_{73}, 42, 9, 32; 2016 TA_{170}, 4, 1, 0; 2016 UA_{30}, 4, 1, 0; 2016 UU_{121}, 16, 4, 7; 2016 VJ_6, 8, 2, 4; 2016 WN_{32}, 5, 1, 0; 2017 AP_{20}, 4, 1, 0; 2017 FP_{130}, 26, 6, 29; 2017 LO_1, 4, 1, 0; 2017 ML_9, 8, 2, 4; 2017 OA_3, 10, 2, 3; 2017 OJ_{75}, 12, 3, 13; 2017 PN_{42}, 8, 2, 4; 2017 PZ_{44}, 4, 1, 0; 2017 PP_{47}, 6, 2, 8; 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5, 1, 0; 2017 UH_{144}, 4, 1, 0; 2017 VG, 4, 1, 0; 2017 VC_1, 4, 1, 0; 2017 VM_3, 8, 2, 3; 2017 VK_4, 4, 1, 0; 2017 VP_{25}, 16, 3, 32; 2017 VZ_{31}, 13, 3, 23; 2017 WY_{25}, 4, 1, 0; 2017 YT_{14}, 8, 2, 24; 2018 BP, 4, 1, 0; 2018 BO_{10}, 8, 2, 9; 2018 DA_{10}, 24, 6, 23; 2018 RP_3, 4, 1, 0; 2018 RO_{61}, 6, 1, 0; 2018 TG_5, 18, 3, 28; 2018 US, 15, 3, 24; 2018 UA_5, 8, 2, 12; 2019 AC_{18}, 20, 5, 36; 2019 AA_{19}, 4, 1, 0; 2019 EG, 4, 1, 0; 2019 KN_{19}, 4, 1, 0; 2019 LD_2, 9, 2, 24; 2019 NC_1, 21, 6, 29; 2019 UD_4, 20, 5, 14; 2020 BW_{88}, 4, 1, 0; 2020 HZ_{117}, 12, 3, 16; 2020 PP, 4, 1, 0; 2020 PN_1, 4, 1, 0; 2021 CH_2, 4, 1, 0; 2021 GM_4, 8, 2, 4; 2021 JH_2, 25, 6, 33; 2021 JQ_{24}, 39, 10, 37; 2021 JF_{52}, 35, 8, 27; 2021 JG_{52}, 4, 1, 0; 2021 KG_2, 4, 1, 0; 2021 KN_3, 8, 2, 4; 2021 LL_7, 4, 1, 0; 2021 LP_8, 10, 2, 4; 2021 LQ_8, 4, 1, 0; 2021 LH_9, 8, 2, 16; 2021 LN_{15}, 24, 6, 29; 2021 LY_{15}, 26, 4, 4; 2021 LE_{19}, 8, 2, 12; 2021 LO_{23}, 12, 3, 13; 2021 LY_{23}, 4, 1, 0; 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T08 ATLAS-MLO, Mauna Loa

Observers L. Denneau, J. Tonry, H. Weiland, A. Heinze, H. Flewelling, B. Stalder, A. Sherstyuk. Measurers L. Denneau, J. Tonry, H. Weiland, A. Fitzsimmons, J. Robinson, N. Erasmus, A. Heinze, H. Flewelling, B. Stalder, D. Young.
0.5-m reflector + CCD, 0.5-m $f/2.0$ Schmidt + CCD.

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(566355), 4, 1, 0; (566359), 16, 4, 23; (566360), 8, 2, 5; (566363), 5, 1, 0; (566381), 38, 7, 31; (566396), 32, 7, 28; (566667), 17, 4, 7; (566791), 8, 2, 16; (567192), 11, 2, 4; (567202), 8, 2, 4; (567204), 8, 2, 16; (567216), 4, 1, 0; (567307), 20, 5, 28; (567336), 11, 2, 1; (567380), 4, 1, 0; (567385), 4, 1, 0; (567410), 18, 4, 8; (567453), 4, 1, 0; (567474), 4, 1, 0; (567507), 8, 2, 12; (567564), 4, 1, 0; (567603), 4, 1, 0; (567859), 4, 1, 0; (567869), 4, 1, 0; (567878), 4, 1, 0; (568035), 6, 1, 0; (568079), 4, 1, 0; (568088), 20, 5, 24; (568090), 8, 2, 4; (568105), 9, 2, 12; (568106), 23, 5, 24; (568116), 7, 1, 0; (568117), 8, 2, 4; (568127), 5, 1, 0; (568129), 24, 5, 5; (568130), 6, 1, 0; (568134), 12, 3, 20; (568138), 4, 1, 0; (568142), 8, 2, 5; (568209), 12, 3, 15; (568251), 21, 5, 24; (568262), 5, 1, 0; (568266), 36, 8, 20; (568347), 5, 1, 0; (568357), 4, 1, 0; (568376), 4, 1, 0; (568429), 4, 1, 0; (568485), 4, 1, 0; (568495), 4, 1, 0; (568636), 8, 2, 4; (568640), 4, 1, 0; (568643), 19, 4, 24; 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T12 Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)

Observers D. J. Tholen, D. Hung, Y. Ramanjooloo, M. Micheli, G. T. Elliott, D. Fohring. Measurer D. J. Tholen. 2.24-m $f/10.1$ reflector + CCD, 2.24-m University of Hawaii reflector.

2004 RG_{241}, 1, 1, 0; 2006 CV_9, 1, 1, 0; 2007 TF_{15}, 3, 1, 0; 2008 SV_{11}, 6, 2, 2; 2008 TD_{27}, 6, 2, 3; 2009 FF, 2, 2, 8; 2012 KK_{63}, 3, 1, 0; 2014 OC_{419}, 2, 1, 0; 2014 TN_{17}, 1, 1, 0; 2015 AY_{245}, 6, 1, 0; 2015 FV_{284}, 3, 3, 709; 2015 MH_{186}, 2, 1, 0; 2015 RY_{307}, 1, 1, 0; 2016 PC_2, 2, 2, 680; 2016 WF_3, 2, 1, 0; 2018 FH_4, 2, 1, 0; 2019 BG_2, 2, 2, 4; 2019 OR_1, 3, 1, 0; 2019 OV_3, 7, 2, 3; 2020 HH_{120}, 4, 1, 0; 2021 BR_6, 1, 1, 0; 2021 JL_6, 2, 1, 0; 2021 LD_7, 3, 2, 31; 2021 LV_8, 2, 1, 0; 2021 LB_{33}, 1, 1, 0; 2021 MH_2, 3, 1, 0; 2021 MS_5, 1, 1, 0; 2021 NU, 4, 2, 9; 2021 NM_8, 10, 3, 36; 2021 OS, 3, 1, 0; 2021 OE_1, 3, 1, 0; 2021 OK_1, 1, 1, 0; 2021 OH_2, 3, 1, 0; 2021 OD_5, 2, 1, 0; 2021 PG_2, 6, 2, 22; 2021 PH_4, 3, 1, 0; 2021 PK_5, 4, 1, 0; 2021 PC_7, 1, 1, 0; 2021 PD_7, 2, 1, 0; 2021 PE_9, 3, 1, 0; 2021 PA_{24}, 3, 1, 0; 2021 PH_{50}, 3, 1, 0; 2021 QF, 3, 1, 0; 2021 QW, 6, 2, 1; 2021 QH_1, 6, 2, 1; 2021 QM_1, 7, 2, 1; 2021 QW_1, 2, 1, 0; 2021 QY_1, 3, 1, 0; 2021 QA_2, 5, 2, 1; 2021 QO_3, 4, 2, 1; 2021 QA_6, 3, 1, 0; 2021 QE_6, 3, 1, 0; 2021 QM_9, 1, 1, 0; 2021 RF, 6, 2, 2; 2021 RP, 11, 3, 6; 2021 RS, 3, 1, 0; 2021 RJ_1, 3, 1, 0; 2021 RT_1, 2, 1, 0; 2021 RJ_2, 3, 1, 0; 2021 RK_2, 9, 3, 4; 2021 RT_2, 3, 1, 0; 2021 RX_3, 2, 1, 0; 2021 RZ_3, 9, 3, 4; 2021 RT_4, 6, 2, 1;

2021 RY_4, 3, 1, 0; 2021 RN_5, 3, 1, 0; 2021 RS_5, 5, 2, 1; 2021 RB_6, 5, 2, 1; 2021 RL_6, 6, 2, 1; (4714), 7, 1, 0; (34664), 2, 1, 0; (48639), 3, 1, 0; (58991), 3, 1, 0; (72759), 3, 1, 0; (73239), 3, 1, 0; (77287), 1, 1, 0; (126867), 1, 1, 0; (134087), 3, 1, 0; (170582), 1, 1, 0; (224214), 3, 1, 0; (255742), 3, 1, 0; (290804), 3, 1, 0; (298696), 1, 1, 0; (316222), 2, 1, 0; (329779), 8, 1, 0; (423969), 1, 1, 0; (438022), 1, 1, 0; (470667), 1, 1, 0; (481052), 1, 1, 0; (521473), 2, 1, 0; (568244), 1, 1, 0; *[299, 91, 0*, 2009/11/01–2021/09/13]*

T14 Mauna Kea-UH/Tholen NEO Follow-Up (CFHT)

Observers L. Wells, H. Januszewski, C. Cunningham. Measurer D. J. Tholen. 3.6-m $f/4.1$ reflector + MegaCam.

2004 UE, 5, 2, 7; 2014 TN_{17}, 1, 1, 0; 2021 DM_2, 1, 1, 0; 2021 QA_6, 3, 1, 0; *[10, 4, 0*, 2021/08/05–2021/09/03]*

U55 Golden Ears Observatory, Maple Ridge

Observer B. Kumar. 0.36-m $f/2$ Schmidt-Cassegrain + CCD.

2019 NC_1, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; (17), 3, 1, 0; (20), 3, 1, 0; (32), 3, 1, 0; (61), 3, 1, 0; (62), 3, 1, 0; (96), 6, 2, 13; (162), 9, 3, 19; (186), 6, 2, 27; (212), 3, 1, 0; (257), 6, 2, 14; (262), 6, 2, 9; (268), 3, 1, 0; (270), 9, 3, 13; (272), 3, 1, 0; (281), 3, 1, 0; (290), 6, 2, 7; (297), 21, 6, 36; (326), 3, 1, 0; (336), 3, 1, 0; (375), 9, 3, 15; (399), 6, 2, 14; (401), 3, 1, 0; (426), 9, 3, 29; (427), 3, 1, 0; (467), 12, 4, 36; (473), 3, 1, 0; (554), 3, 1, 0; (564), 3, 1, 0; (573), 24, 7, 36; (580), 3, 1, 0; (609), 3, 1, 0; (616), 3, 1, 0; (626), 3, 1, 0; (640), 3, 1, 0; (693), 12, 4, 29; (705), 6, 2, 4; (742), 3, 1, 0; (751), 3, 1, 0; (753), 6, 2, 13; (762), 3, 1, 0; (778), 3, 1, 0; (779), 3, 1, 0; (784), 18, 6, 34; (870), 3, 1, 0; (916), 9, 3, 27; (925), 3, 1, 0; (934), 18, 6, 29; (936), 6, 2, 13; (953), 3, 1, 0; (982), 18, 6, 34; (1001), 3, 1, 0; (1009), 3, 1, 0; (1032), 3, 1, 0; (1039), 3, 1, 0; (1075), 3, 1, 0; (1091), 3, 1, 0; (1110), 3, 1, 0; (1122), 3, 1, 0; (1135), 3, 1, 0; (1185), 3, 1, 0; (1188), 3, 1, 0; (1189), 6, 2, 2; (1192), 3, 1, 0; (1235), 6, 2, 7; (1298), 3, 1, 0; (1368), 15, 5, 34; (1398), 15, 5, 29; (1405), 6, 2, 6; (1418), 6, 2, 9; (1421), 3, 1, 0; (1424), 3, 1, 0; (1467), 3, 1, 0; (1517), 3, 1, 0; (1555), 6, 2, 3; (1572), 15, 5, 29; (1584), 9, 3, 22; (1654), 9, 3, 9; (1697), 6, 2, 6; (1709), 3, 1, 0; (1752), 3, 1, 0; (1814), 3, 1, 0; (1884), 15, 5, 27; (1889), 6, 2, 14; (1927), 3, 1, 0; (1984), 3, 1, 0; (2022), 3, 1, 0; (2023), 6, 2, 15; (2104), 6, 2, 14; (2181), 6, 2, 14; (2364), 3, 1, 0; (2391), 3, 1, 0; (2407), 3, 1, 0; (2445), 3, 1, 0; (2563), 3, 1, 0; (2599), 3, 1, 0; (2637), 3, 1, 0; (2645), 9, 3, 27; (2693), 3, 1, 0; (2760), 9, 3, 27; (2805), 3, 1, 0; (2808), 3, 1, 0; (2826), 6, 2, 4; (2860), 12, 4, 23; (2928), 3, 1, 0; (3012), 3, 1, 0; (3078), 3, 1, 0; (3092), 6, 2, 36; (3325), 6, 2, 30; (3372), 3, 1, 0; (3447), 3, 1, 0; (3586), 3, 1, 0; (3641), 3, 1, 0; (3658), 3, 1, 0; (3763), 3, 1, 0; (3776), 6, 2, 13; (3950), 3, 1, 0; (4022), 3, 1, 0; (4052), 3, 1, 0; (4148), 3, 1, 0; (4209), 3, 1, 0; (4212), 18, 6, 36; (4298), 3, 1, 0; (4511), 3, 1, 0; (4543), 3, 1, 0; (4628), 12, 4, 36; (4714), 9, 3, 29; (4717), 3, 1, 0; (4719), 3, 1, 0; (5143), 3, 1, 0; (5349), 6, 2, 4; (5357), 9, 3, 15; (5392), 3, 1, 0; (5567), 3, 1, 0; (5823), 3, 1, 0; (5975), 6, 2, 13; (6139), 6, 2, 30; (6174), 6, 2, 13; (6241), 3, 1, 0; (6350), 3, 1, 0; (6514), 3, 1, 0; (6662), 3, 1, 0; (6693), 3, 1, 0; (7358), 6, 2, 22; (7572), 3, 1, 0; (7694), 3, 1, 0; (7930), 3, 1, 0; (8392), 3, 1, 0; (9165), 3, 1, 0; (9321), 3, 1, 0; (10195), 12, 4, 36; (11787), 3, 1, 0; (13249), 6, 2, 3; (17296), 3, 1, 0; (19318), 3, 1, 0; (19608), 3, 1, 0; (19646), 3, 1, 0; (19982), 3, 1, 0; (20139), 3, 1, 0; (21104), 6, 2, 11; (22357), 3, 1, 0; (23468), 3, 1, 0; (24605), 3, 1, 0; (32255), 3, 1, 0; (32569), 3, 1, 0; (36230), 3, 1, 0; (40432), 9, 3, 2; (67193), 3, 1, 0; (96859), 3, 1, 0; (162091), 3, 1, 0; (363027), 3, 1, 0; *[870, 172, 0*, 2021/08/11–2021/09/16]*

U65 CWU Observatory, Ellensburg

Observers M. McMurray, H. Dilip, K. Bhat, R. Kim, Y. Zhang. 0.6-m $f/6.0$ reflector + CCD. (03)

(12538), 6, 2, 3; *[6, 1, 0*, 2021/07/16–2021/07/19]*

U68 JPL SynTrack Robotic Telescope, Auberry

Observers N. Saini, C. Zhai, R. Trahan, M. Zhan, M. Shao. 0.28-m $f/2.2$ Schmidt + CCD.

2011 UC_{292}, 4, 1, 0; 2014 UU_{192}, 4, 1, 0; 2019 NC_1, 4, 1, 0; 2021 PF_2, 4, 1, 0; 2021 PH_5 *, 8, 2, 1; 2021 PU_9, 4, 1, 0; 2021 QA_2, 4, 1, 0; 2021 RP_4, 4, 1, 0; 2021 RF_6 *, 8, 2, 1; (1474), 4, 1, 0; (2495), 4, 1, 0; (4232), 4, 1, 0; (10041), 4, 1, 0; (15822), 4, 1, 0; (16636), 4, 1, 0; (20453), 4, 1, 0; (23437), 8, 1, 0; (30935), 4, 1, 0; (45694), 4, 1, 0; (65965), 4, 1, 0; (68875), 4, 1, 0; (70084), 4, 1, 0; (82151), 4, 1, 0; (87073), 4, 1, 0; (87182), 4, 1, 0; (100416), 4, 1, 0; (116819), 4, 1, 0; (116820), 4, 1, 0; (147449), 4, 1, 0; (159460), 4, 1, 0; (187877), 4, 1, 0; (198855), 4, 1, 0; (251341), 4, 1, 0; (301982), 4, 1, 0; (307984), 4, 1, 0; (322724), 4, 1, 0; (326340), 4, 1, 0; (337248), 4, 1, 0; (506808), 4, 1, 0; (557717), 4, 1, 0; *[172, 40, 2*, 2021/08/06–2021/09/15]*

U69 iTelescope SRO Observatory, Auberry

Observers A. Aran, S. Jupally, J. Kim, K. Li, J. Lin, T. Biradar, S. Shin, E. Rogers, J. Clemetson, M. McMurray, H. Dilip, G. Touchette, A. Pan, S. Kayath. 0.61-m $f/6.5$ reflector + CCD. (39)

{39} (12538), 17, 6, 23; *[17, 1, 0*, 2021/06/27–2021/07/20]*

U71 AHS Observatory, Castaic

Observer M. Forslund. 0.36-m $f/2.2$ reflector + CCD.

2010 OE_{101}, 3, 1, 0; 2021 LN_{15}, 3, 1, 0; (141), 3, 1, 0; (370), 3, 1, 0; (1031), 3, 1, 0; (1197), 3, 1, 0; (1250), 3, 1, 0; (1404), 3, 1, 0; (1477), 3, 1, 0; (1832), 3, 1, 0; (3151), 3, 1, 0; (3159), 3, 1, 0; (3907), 3, 1, 0; (5023), 3, 1, 0; (5247), 3, 1, 0; (5409), 3, 1, 0; (6763), 3, 1, 0; (6772), 3, 1, 0; (6810), 3, 1, 0; (7812), 3, 1, 0; (8026), 3, 1, 0; (8080), 3, 1, 0; (9732), 3, 1, 0; (11601), 3, 1, 0; (12387), 3, 1, 0; (12847), 3, 1, 0; (13172), 6, 1, 0; (14781), 3, 1, 0; (15850), 3, 1, 0; (17175), 3, 1, 0; (17279), 3, 1, 0; (17778), 3, 1, 0; (17839), 3, 1, 0; (18535), 3, 1, 0; (19318), 3, 1, 0; (19648), 3, 1, 0; (20193), 3, 1, 0; (21540), 3, 1, 0; (21765), 3, 1, 0; (22044), 3, 1, 0; (22637), 3, 1, 0; (23823), 3, 1, 0; (24077), 3, 1, 0; (25325), 3, 1, 0; (25349), 3, 1, 0; (27587), 3, 1, 0; (31204), 3, 1, 0; (31227), 3, 1, 0; (31799), 3, 1, 0; (32252), 3, 1, 0; (32256), 3, 1, 0; (32490), 3, 1, 0; (32780), 3, 1, 0; (33468), 3, 1, 0; (34638), 3, 1, 0; (37274), 3, 1, 0; (38050), 3, 1, 0; (38832), 3, 1, 0; (39510), 3, 1, 0; (40290), 3, 1, 0; (42768), 3, 1, 0; (42808), 3, 1, 0; (44566), 3, 1, 0; (45368), 3, 1, 0; (45443), 3, 1, 0; (45452), 3, 1, 0; (45460), 3, 1, 0; (49313), 3, 1, 0; (51216), 3, 1, 0; (54933), 3, 1, 0; (56565), 3, 1, 0; (57743), 3, 1, 0; (62105), 3, 1, 0; (62267), 3, 1, 0; (62592), 3, 1, 0; (65684), 3, 1, 0; (66524), 3, 1, 0; (67977), 3, 1, 0; (68050), 3, 1, 0; (70133), 3, 1, 0; (70171), 3, 1, 0; (74069), 3, 1, 0; (79563), 3, 1, 0; (81273), 3, 1, 0; (82310), 3, 1, 0; (83039), 3, 1, 0; (83657), 3, 1, 0; (84402), 3, 1, 0; (85552), 3, 1, 0; (86277), 3, 1, 0; (86361), 3, 1, 0; (90897), 3, 1, 0; (91422), 3, 1, 0; (95577), 3, 1, 0; (95932), 3, 1, 0; (96851), 3, 1, 0; (102916), 3, 1, 0; (106121), 3, 1, 0; (106290), 3, 1, 0; (106829), 3, 1, 0; (106989), 3, 1, 0; (121038), 3, 1, 0; (121711), 3, 1, 0; (129664), 3, 1, 0; (140825), 3, 1, 0; (145945), 3, 1, 0; (151293), 3, 1, 0; (159567), 3, 1, 0; (189609), 3, 1, 0; (190292), 3, 1, 0; (230094), 3, 1, 0; (267176), 3, 1, 0; (276510), 3, 1, 0; (303174), 3, 1, 0; (326340), 3, 1, 0; (405508), 3, 1, 0; *[351, 116, 0*, 2021/09/16–2021/09/18]*

U76 Glendora

Observer P. Lewin. 0.06-m $f/5.9$ refractor + CCD.

2006 UN_{292}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2012 UD_{136}, 3, 1, 0; 2014 UU_{192}, 6, 2, 23; (3239), 3, 1, 0; (69701), 3, 1, 0; (146154), 3, 1, 0; (159857), 3, 1, 0; (230861), 3, 1, 0; (583950), 3, 1, 0; *[33, 10, 0*, 2019/04/14–2021/09/14]*

U83 Mount Laguna Observatory

Observer J. N. Purdum. 1.02-m $f/7.65$ Cassegrain reflector + CCD.

2020 AV_2, 20, 2, 11; 2021 OA_1, 11, 1, 0; 2021 PC_7, 4, 1, 0; 2021 PD_7, 6, 1, 0; 2021 RS, 37, 1, 0; 2021 RT_4, 6, 1, 0; *[84, 6, 0*, 2021/08/12–2021/09/09]*

V00 Kitt Peak-Bok

Observers A. R. Gibbs, H. Groeller, J. V. Scotti, R. Mastaler. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, M. J. Brucker, C. E. Woodward, R. S. McMillan. 2.25-m reflector + CCD.

2004 QD_{38}, 4, 1, 0; 2005 QR_{208}, 4, 1, 0; 2005 RY_{61}, 4, 1, 0; 2005 YC_{186}, 4, 1, 0; 2006 KQ_{129}, 4, 1, 0; 2006 QV_{55}, 4, 1, 0; 2006 SX_{457}, 4, 1, 0; 2006 TR_{112}, 4, 1, 0; 2007 DZ_{131}, 4, 1, 0; 2007 DA_{132}, 4, 1, 0; 2007 DB_{132}, 4, 1, 0; 2007 EC_{189}, 4, 1, 0; 2007 HD_{115}, 4, 1, 0; 2007 TL_{293}, 4, 1, 0; 2008 GD_{53}, 4, 1, 0; 2008 GH_{76}, 4, 1, 0; 2008 PR_{24}, 4, 1, 0; 2008 RU_{69}, 4, 1, 0; 2009 BB_{103}, 4, 1, 0; 2009 DY_{158}, 4, 1, 0; 2009 DN_{159}, 4, 1, 0; 2009 VV_{130}, 4, 1, 0; 2009 WR_{120}, 3, 1, 0; 2010 BP_{108}, 8, 1, 0; 2010 DF_{11}, 4, 1, 0; 2010 FR_{134}, 4, 1, 0; 2010 HM_{140}, 8, 1, 0; 2010 JQ_{156}, 4, 1, 0; 2010 MJ_{135}, 4, 1, 0; 2010 NU_{74}, 4, 1, 0; 2010 NZ_{111}, 4, 1, 0; 2010 RJ_{215}, 4, 1, 0; 2010 VM_{221}, 4, 1, 0; 2011 QA_{115}, 4, 1, 0; 2011 US_{354}, 4, 1, 0; 2011 UZ_{478}, 3, 1, 0; 2011 VO, 4, 1, 0; 2012 BE_5, 3, 1, 0; 2012 BC_{184}, 4, 1, 0; 2012 DO_{126}, 4, 1, 0; 2012 DP_{126}, 4, 1, 0; 2012 EU_{30}, 4, 1, 0; 2012 FF_{20}, 4, 1, 0; 2012 FL_{46}, 4, 1, 0; 2012 HK_{10}, 4, 1, 0; 2012 QN_{71}, 4, 1, 0; 2012 SV_{94}, 4, 1, 0; 2012 SJ_{96}, 4, 1, 0; 2012 TY_{275}, 8, 1, 0; 2012 UL_{235}, 4, 1, 0; 2013 CW_{253}, 3, 1, 0; 2013 GA_{120}, 4, 1, 0; 2013 GF_{161}, 4, 1, 0; 2013 HV_{148}, 4, 1, 0; 2013 JN_{79}, 4, 1, 0; 2013 PP_7, 4, 1, 0; 2013 PW_{120}, 4, 1, 0; 2013 QZ_{103}, 3, 1, 0; 2013 UK_{49}, 8, 2, 479; 2014 FG_{88}, 4, 1, 0; 2014 GZ_{23}, 4, 1, 0; 2014 JZ_{124}, 4, 1, 0; 2014 KM_{20}, 4, 1, 0; 2014 QO_{235}, 4, 1, 0; 2014 QH_{558}, 4, 1, 0; 2014 QU_{560}, 4, 1, 0; 2014 RT_{85}, 4, 1, 0; 2014 SZ_{139}, 4, 1, 0; 2014 SK_{195}, 4, 1, 0; 2014 SY_{401}, 3, 1, 0; 2014 TG_{58}, 3, 1, 0; 2014 TS_{114}, 3, 1, 0; 2014 TB_{115}, 4, 1, 0; 2014 UV_{60}, 4, 1, 0; 2014 UD_{275}, 4, 1, 0; 2014 WD_{601}, 4, 1, 0; 2014 YR_{91}, 4, 1, 0; 2015 AB_{266}, 4, 1, 0; 2015 BE_{341},

4, 1, 0; 2015 BT_{557}, 4, 1, 0; 2015 DG_{296}, 4, 1, 0; 2015 EE_{59}, 4, 1, 0; 2015 FQ_{449}, 4, 1, 0; 2015 HN_{223}, 4, 1, 0; 2015 KF_{41}, 4, 1, 0; 2015 LG_{57}, 4, 1, 0; 2015 MS_{48}, 4, 1, 0; 2015 MD_{184}, 4, 1, 0; 2015 MR_{186}, 4, 1, 0; 2015 PG_{348}, 4, 1, 0; 2015 RS_{140}, 4, 1, 0; 2015 VS_{206}, 4, 1, 0; 2015 VU_{206}, 4, 1, 0; 2015 XG_{364}, 4, 1, 0; 2015 XY_{478}, 4, 1, 0; 2015 XT_{479}, 4, 1, 0; 2016 BN_{130}, 4, 1, 0; 2016 CV_{86}, 4, 1, 0; 2016 CF_{87}, 4, 1, 0; 2016 CA_{250}, 4, 1, 0; 2016 CR_{383}, 4, 1, 0; 2016 DQ_{43}, 4, 1, 0; 2016 EY_{309}, 4, 1, 0; 2016 FE_{27}, 4, 1, 0; 2016 FT_{81}, 3, 1, 0; 2016 GW_{308}, 3, 1, 0; 2016 LY_{93}, 4, 1, 0; 2016 NW_{149}, 4, 1, 0; 2016 NN_{150}, 4, 1, 0; 2016 NQ_{150}, 4, 1, 0; 2016 NG_{152}, 7, 1, 0; 2016 PB_{195}, 4, 1, 0; 2016 PT_{211}, 4, 1, 0; 2016 QR_{130}, 4, 1, 0; 2016 QE_{131}, 4, 1, 0; 2016 QN_{131}, 4, 1, 0; 2016 QP_{133}, 4, 1, 0; 2016 QR_{133}, 4, 1, 0; 2016 RY_{79}, 4, 1, 0; 2016 RD_{80}, 4, 1, 0; 2016 SB_{103}, 4, 1, 0; 2016 WX_{74}, 3, 1, 0; 2016 YF_{29}, 4, 1, 0; 2017 FX_{99}, 4, 1, 0; 2017 FS_{198}, 3, 1, 0; 2017 FU_{199}, 4, 1, 0; 2017 FW_{199}, 4, 1, 0; 2017 HL_{55}, 4, 1, 0; 2017 HT_{60}, 4, 1, 0; 2017 MV_{22}, 4, 1, 0; 2017 MO_{23}, 4, 1, 0; 2017 NR_{20}, 4, 1, 0; 2017 OO_{72}, 3, 1, 0; 2017 OC_{127}, 4, 1, 0; 2017 PT_{64}, 4, 1, 0; 2017 PC_{66}, 3, 1, 0; 2017 QY_{28}, 4, 1, 0; 2017 QX_{68}, 4, 1, 0; 2017 QR_{74}, 4, 1, 0; 2017 QF_{131}, 4, 1, 0; 2017 RC_{125}, 4, 1, 0; 2017 RX_{134}, 4, 1, 0; 2017 RM_{135}, 4, 1, 0; 2017 RV_{137}, 8, 1, 0; 2017 SA_{186}, 4, 1, 0; 2017 SR_{266}, 4, 1, 0; 2017 TL_{39}, 4, 1, 0; 2017 UR_{80}, 3, 1, 0; 2017 UR_{151}, 4, 1, 0; 2017 VO_{53}, 4, 1, 0; 2017 WH_{37}, 4, 1, 0; 2017 WW_{64}, 3, 1, 0; 2017 WX_{64}, 4, 1, 0; 2017 XS_{80}, 3, 1, 0; 2018 DC_{10}, 4, 1, 0; 2018 LL_{31}, 4, 1, 0; 2018 MG_{24}, 4, 1, 0; 2018 PY_{66}, 4, 1, 0; 2018 PE_{67}, 4, 1, 0; 2018 PF_{67}, 4, 1, 0; 2018 VP_{136}, 3, 1, 0; 2018 VK_{147}, 4, 1, 0; 2018 WZ_{9}, 4, 1, 0; 2018 XZ_{32}, 4, 1, 0; 2019 AM_{86}, 3, 1, 0; 2019 AN_{86}, 4, 1, 0; 2019 LA_{28}, 7, 2, 6; 2019 MY_{25}, 4, 1, 0; 2019 NL_{73}, 4, 1, 0; 2019 NU_{73}, 4, 1, 0; 2019 NX_{73}, 3, 1, 0; 2019 NG_{74}, 4, 1, 0; 2019 NV_{74}, 4, 1, 0; 2019 OS_{37}, 4, 1, 0; 2019 PV_{64}, 4, 1, 0; 2019 PA_{65}, 4, 1, 0; 2019 PH_{65}, 4, 1, 0; 2019 PP_{67}, 4, 1, 0; 2019 QX_{72}, 3, 1, 0; 2019 QC_{74}, 4, 1, 0; 2019 RZ_{73}, 4, 1, 0; 2019 SM_{182}, 4, 1, 0; 2019 SP_{182}, 4, 1, 0; 2019 SR_{182}, 4, 1, 0; 2019 SS_{182}, 3, 1, 0; 2019 SC_{183}, 4, 1, 0; 2019 SC_{184}, 4, 1, 0; 2019 SD_{184}, 4, 1, 0; 2019 SS_{184}, 4, 1, 0; 2019 TW_{77}, 4, 1, 0; 2019 UA_{122}, 4, 1, 0; 2019 UT_{122}, 4, 1, 0; 2019 VS_{32}, 4, 1, 0; 2019 VH_{33}, 4, 1, 0; 2019 WD_{21}, 4, 1, 0; 2019 YR_{40} *, 4, 1, 0; 2019 YS_{40} *, 4, 1, 0; 2019 YY_{40} *, 3, 1, 0; 2019 YD_{41} *, 3, 1, 0; 2019 YE_{41}, 4, 1, 0; 2020 BE_{74}, 4, 1, 0; 2020 BQ_{90}, 4, 1, 0; 2020 BM_{92}, 4, 1, 0; 2020 BQ_{92}, 4, 1, 0; 2020 BR_{92}, 4, 1, 0; 2020 DA_{13}, 3, 1, 0; 2020 DK_{13} *, 4, 1, 0; 2020 DU_{13} *, 4, 1, 0; 2020 DW_{13} *, 4, 1, 0; 2020 DD_{14} *, 4, 1, 0; 2020 FY_{35}, 4, 1, 0; 2020 HX_{120}, 4, 1, 0; 2020 HL_{121}, 4, 1, 0; 2020 HT_{122}, 4, 1, 0; 2020 JE_{34}, 4, 1, 0; 2020 KD_{37}, 4, 1, 0; 2020 XV_{19} *, 8, 1, 0; 2020 XW_{19} *, 4, 1, 0; 2021 BD_{13}, 4, 1, 0; 2021 CJ_{34}, 4, 1, 0; 2021 CM_{34}, 4, 1, 0; 2021 CP_{34}, 4, 1, 0; 2021 CY_{34}, 4, 1, 0; 2021 CG_{35} *, 4, 1, 0; 2021 CH_{35} *, 4, 1, 0; 2021 CM_{35}, 4, 1, 0; 2021 CS_{35} *, 3, 1, 0; 2021 DG_{14}, 4, 1, 0; 2021 EU_{46}, 4, 1, 0; 2021 EX_{46}, 4, 1, 0; 2021 ED_{47}, 4, 1, 0; 2021 EE_{47}, 4, 1, 0; 2021 EH_{47}, 4, 1, 0; 2021 EK_{47}, 4, 1, 0; 2021 EL_{47}, 4, 1, 0; 2021 FU_{47}, 4, 1, 0; 2021 FW_{47} *, 8, 2, 57; 2021 FM_{48} *, 4, 1, 0; 2021 FN_{48} *, 4, 1, 0; 2021 FO_{48} *, 4, 1, 0; 2021 FP_{48} *, 4, 1, 0; 2021 FW_{48}, 4, 1, 0; 2021 FA_{49}, 4, 1, 0; 2021 FB_{49} *, 4, 1, 0; 2021 FC_{49} *, 4, 1, 0; 2021 FD_{49} *, 3, 1, 0; 2021 FE_{49} *, 3, 1, 0; 2021 GF_{160}, 4, 1, 0; 2021 GG_{160}, 4, 1, 0; 2021 GJ_{160}, 4, 1, 0; 2021 GL_{160}, 3, 1, 0; 2021 GM_{160}, 4, 1, 0; 2021 GR_{160}, 4, 1, 0; 2021 GS_{160}, 4, 1, 0; 2021 GT_{160}, 4, 1, 0; 2021 GV_{160}, 4, 1, 0; 2021 GW_{160}, 4, 1, 0; 2021 GX_{160}, 4, 1, 0; 2021 GA_{161}, 4, 1, 0; 2021 GG_{161}, 3, 1, 0; 2021 GR_{161}, 4, 1, 0; 2021 GZ_{162}, 4, 1, 0; 2021 GS_{164} *, 4, 1, 0; 2021 GT_{164} *, 4, 1, 0; 2021 GE_{165}, 4, 1, 0; 2021 GH_{165}, 3, 1, 0; 2021 HV_{26}, 4, 1, 0; 2021 HW_{26}, 8, 2, 25; 2021 HA_{27}, 4, 1, 0; 2021 HD_{27}, 4, 1, 0; 2021 HE_{27}, 4, 1, 0; 2021 HG_{27}, 4, 1, 0; 2021 HH_{27}, 8, 2, 27; 2021 HN_{27}, 8, 2, 25; 2021 HV_{27}, 4, 1, 0; 2021 HB_{28}, 3, 1, 0; 2021 HF_{28}, 4, 1, 0; 2021 HM_{28}, 8, 1, 0; 2021 HN_{28}, 4, 1, 0; 2021 HO_{28}, 4, 1, 0; 2021 HX_{28}, 4, 1, 0; 2021 HY_{28}, 4, 1, 0; 2021 HZ_{28}, 4, 1, 0; 2021 JM_{53}, 4, 1, 0; 2021 JO_{53}, 4, 1, 0; 2021 JP_{53}, 4, 1, 0; 2021 JQ_{53}, 4, 1, 0; 2021 JT_{53}, 4, 1, 0; 2021 JV_{53}, 4, 1, 0; 2021 JB_{54}, 3, 1, 0; 2021 JC_{54}, 4, 1, 0; 2021 JG_{54}, 4, 1, 0; 2021 JB_{55}, 4, 1, 0; 2021 JL_{55}, 4, 1, 0; 2021 JV_{55}, 4, 1, 0; 2021 JW_{55}, 7, 2, 25; 2021 JX_{55}, 4, 1, 0; 2021 JC_{56}, 4, 1, 0; 2021 JE_{56}, 4, 1, 0; 2021 JF_{56}, 4, 1, 0; 2021 JH_{56}, 4, 1, 0; 2021 KP_{15} *, 4, 1, 0; 2021 KR_{15} *, 4, 1, 0; 2021 KW_{15} *, 3, 1, 0; 2021 KX_{15} *, 4, 1, 0; 2021 LR_{27}, 4, 1, 0; 2021 LR_{28}, 4, 1, 0; 2021 LV_{29} *, 4, 1, 0; 2021 LE_{30} *, 4, 1, 0; 2021 LF_{30} *, 4, 1, 0; 2021 LK_{30} *, 4, 1, 0; 2021 LQ_{30} *, 8, 2, 3; 2021 LS_{30} *, 4, 1, 0; 2021 LE_{31} *, 3, 1, 0; 2021 LM_{31}, 4, 1, 0; 2021 LH_{32} *, 3, 1, 0; 2021 LK_{32}, 4, 1, 0; 2021 LY_{32} *, 4, 1, 0; 2021 LA_{33} *, 4, 1, 0; 2021 LD_{33} *, 4, 1, 0; 2021 LF_{33} *, 4, 1, 0; 2021 LK_{33} *, 4, 1, 0; 2021 LL_{33} *, 4, 1, 0; 2021 LM_{33} *, 4, 1, 0; 2021 LP_{33} *, 3, 1, 0; 2021 LR_{33} *, 4, 1, 0; 2021 LS_{33} *, 4, 1, 0; 2021 LV_{33} *, 4, 1, 0; 2021 LW_{33}, 4, 1, 0; 2021 LA_{34} *, 4, 1, 0; 2021 MD_{9}, 4, 1, 0; 2021 ML_{11}, 4, 1, 0; 2021 NJ_{18} *, 4, 1, 0; 2021 NM_{18} *, 4, 1, 0; 2021 NV_{18} *, 4, 1, 0; 2021 NG_{19} *, 4, 1, 0; 2021 NU_{19} *, 4, 1, 0; 2021 NF_{21} *, 4, 1, 0; 2021 NE_{22} *, 4, 1, 0; 2021 NH_{22} *, 4, 1, 0; 2021 NJ_{22} *, 4, 1, 0; 2021 NW_{23} *, 4, 1, 0; 2021 NX_{23} *, 4, 1, 0; 2021 NP_{24} *, 4, 1, 0; 2021 NQ_{27}, 4, 1, 0; 2021 NN_{28} *, 4, 1, 0; 2021 NA_{29}, 4, 1, 0; 2021 NO_{30} *, 3, 1, 0; 2021 NA_{31} *, 4, 1, 0; 2021 ND_{31} *, 4, 1, 0; 2021 NE_{31} *, 8, 1, 0; 2021 NV_{32}, 3, 1, 0; 2021 NC_{33} *, 3, 1, 0; 2021 NE_{33} *, 4, 1, 0; 2021 NF_{36} *, 4, 1, 0; 2021 ND_{37} *, 4, 1, 0; 2021 NW_{38} *, 4, 1, 0; 2021 NU_{39} *, 4, 1, 0; 2021 NB_{46} *, 4, 1, 0; 2021 NQ_{46} *, 4, 1, 0; 2021 NB_{48} *, 4, 1, 0; 2021 PE_{57}, 4, 1, 0; (533969), 3, 1, 0; *[1472, 363, 74*, 2019/12/30–2021/07/09]*

V06 Catalina Sky Survey-Kuiper

Observers D. C. Fuls, R. A. Kowalski. Measurers E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, R. A. Kowalski, S. M. Larson, G. J. Leonard, T. A. Pruyne, D. Rankin, R. L. Seaman, F. C. Shelly, K. W. Wierzchos, J. A. Johnson, R. G. Matheny. 1.55-m reflector + 1K CCD, 1.55-m reflector + CCD.

2011 SZ_{120}, 4, 1, 0; 2015 RJ_{83}, 4, 1, 0; 2016 WF_{3}, 4, 1, 0; 2017 EQ_{13}, 4, 1, 0; 2019 SN, 4, 1, 0; 2021 QR, 4, 1, 0; 2021 QK_{2}, 4, 1, 0; 2021 RC_{2}, 4, 1, 0; 2021 RE_{2}, 3, 1, 0; 2021 RH_{2}, 4, 1, 0; 2021 RJ_{2}, 3, 1, 0; 2021 RP_{2}, 8, 1, 0; 2021 RQ_{2}, 4, 1, 0; 2021 RS_{2}, 2, 1, 0; 2021 RT_{2}, 4, 1, 0; 2021 RU_{2}, 4, 1, 0; 2021 RV_{2}, 3, 1, 0; 2021 RX_{2}, 4, 1, 0; 2021 RB_{3}, 3, 1, 0; 2021 RG_{3}, 4, 1, 0; 2021 RN_{3}, 4, 1, 0; 2021 RP_{3}, 4, 1, 0; 2021 RQ_{3}, 4, 1, 0; 2021 RV_{3}, 4, 1, 0; 2021 RW_{3}, 4, 1, 0; 2021 RX_{3}, 4, 1, 0; 2021 RY_{3}, 4, 1, 0; 2021 RC_{4}, 4, 1, 0; 2021 RE_{5}, 4, 1, 0; (215351), 2, 1, 0; *[116, 30, 0*, 2018/05/22–2021/09/07]*

V16 Dark Sky New Mexico, Animas

Observer D. Crowson. 0.30-m $f/8.0$ Ritchey-Chrétien + CCD.

(26032), 12, 1, 0; (36160), 6, 1, 0; (65099), 8, 1, 0; (248370), 12, 1, 0; *[38, 4, 0*, 2021/09/04–2021/09/15]*

V20 Killer Rocks Observatory, Pie Town

Observer D. Lee Moon. 0.51-m reflector + CCD.

2015 NO_{7}, 3, 1, 0; 2016 GV_{265}, 3, 1, 0; *[6, 2, 0*, 2021/09/11]*

V32 Canvas View New Mexico Skies, Mayhill

Observer R. A. Marsh. 0.36-m $f/1.9$ Schmidt + CCD.

(43), 2, 1, 0; (167), 16, 8, 8; (311), 12, 6, 7; (312), 6, 3, 2; (337), 2, 1, 0; (338), 2, 1, 0; (432), 2, 1, 0; (435), 6, 3, 3; (470), 4, 2, 2; (494), 8, 4, 3; (550), 2, 1, 0; (558), 4, 2, 1; (577), 4, 2, 5; (607), 4, 2, 1; (615), 10, 5, 7; (732), 2, 1, 0; (742), 4, 2, 2; (781), 4, 2, 1; (841), 4, 2, 1; (858), 2, 1, 0; (877), 4, 2, 1; (893), 10, 5, 4; (895), 4, 2, 1; (950), 6, 3, 3; (951), 2, 1, 0; (995), 2, 1, 0; (1159), 4, 2, 1; (1489), 4, 2, 1; (1518), 6, 3, 2; (1595), 4, 2, 1; (1733), 2, 1, 0; (1758), 2, 1, 0; (1784), 10, 5, 35; (1851), 2, 1, 0; (1858), 4, 2, 1; (1888), 2, 1, 0; (1892), 6, 3, 2; (1940), 4, 2, 5; (1949), 10, 5, 6; (2040), 2, 1, 0; (2209), 14, 7, 36; (2381), 2, 1, 0; (2407), 8, 4, 3; (2416), 2, 1, 0; (2439), 6, 3, 2; (2464), 4, 2, 2; (37424), 4, 2, 1; *[230, 47, 0*, 2021/08/05–2021/09/18]*

V37 McDonald Observatory-LCO ELP

Observers W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto. Measurers W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD.

2007 UE_{22}, 6, 1, 0; 2008 SC_{16}, 6, 1, 0; 2014 FH_{88}, 5, 1, 0; (206051), 6, 1, 0; (214438), 6, 1, 0; (238685), 6, 1, 0; (348421), 6, 1, 0; (350989), 6, 1, 0; (574374), 5, 1, 0; *[52, 9, 0*, 2021/08/04]*

V38 McDonald Observatory-LCO ELP Aqawan A #1

Observer A. Hale. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.

2010 OE_{101}, 2, 1, 0; *[2, 1, 0*, 2021/09/09]*

V61 Shed of Science South, Pontotoc

Observer R. Durkee.

2017 FU_{199}, 3, 1, 0; *[3, 1, 0*, 2021/02/03]*

V72 Omaha

Observer J. Purcell. 0.13-m $f/7.5$ refractor + CCD.

(216), 6, 2, 1; (456), 6, 2, 1; (485), 6, 2, 1; (510), 6, 2, 1; (654), 6, 2, 3; (780), 6, 2, 2; (68063), 6, 2, 1; *[42, 7, 0*, 2021/08/03–2021/09/06]*

W11 Northwest Indiana Robotic Telescope, Lowell

Observers J. Byrd, A. Saraf, E. Schnathorst. 0.51-m $f/8.1$ reflector + CCD. (03)

(68063), 3, 1, 0; *[3, 1, 0*, 2021/07/04]*

W16 Pleasant Groves Observatory

Observer M. Holbrook. 0.36-m reflector + CCD.

1996 VC_{29}, 3, 1, 0; 2004 QN_{20}, 3, 1, 0; 2004 UA_{2}, 3, 1, 0; 2005 UL_{399}, 3, 1, 0; 2006 EG_{2}, 3, 1, 0; 2007 GT_{12}, 6, 2, 7; 2008 AS_{155}, 3, 1, 0; 2008 SP_{351}, 3, 1, 0; 2008 UG_{144}, 3, 1, 0; 2008 YB_{194}, 3, 1, 0; 2009 SY_{1}, 3, 1, 0; 2009 WR_{120}, 3, 1, 0; 2010 GM_{69}, 3, 1, 0; 2010 LS_{89}, 3, 1, 0; 2010 MJ_{35}, 3, 1, 0; 2010 OW_{27}, 3, 1, 0; 2010 OV_{32}, 3, 1, 0; 2010 RA_{20}, 3, 1, 0; 2010 TL_{184}, 3, 1, 0; 2010 UC_{101}, 3, 1, 0; 2012 DH_{126}, 3, 1, 0; 2012 QX_{7}, 3, 1, 0; 2012 XU_{176}, 3, 1, 0; 2012 XW_{176}, 3, 1, 0; 2013 CW_{59}, 3, 1, 0; 2013 NB_{64}, 3, 1, 0; 2013 TR_{63}, 3, 1, 0; 2014 GV_{87}, 3, 1, 0; 2014 HZ_{230}, 3, 1,

0; 2014 KY_{137}, 4, 1, 0; 2014 RN_{85}, 3, 1, 0; 2014 UF_{275}, 3, 1, 0; 2015 BP_{466}, 3, 1, 0; 2015 FQ_{216}, 3, 1, 0; 2015 MS_{48}, 3, 1, 0; 2015 ON_{151}, 3, 1, 0; 2015 RH_{91}, 3, 1, 0; 2015 TP_{253}, 3, 1, 0; 2016 NU_{152}, 3, 1, 0; 2016 QK_{80}, 3, 1, 0; 2016 RB_{81}, 3, 1, 0; 2016 TA_{92}, 3, 1, 0; 2016 TX_{156}, 4, 1, 0; 2016 VX_{48}, 3, 1, 0; 2016 YO_{29}, 3, 1, 0; 2017 OY_{127}, 3, 1, 0; 2017 PD_{66}, 3, 1, 0; 2017 SX_{273}, 3, 1, 0; 2017 TY_{27}, 3, 1, 0; 2017 UY_{77}, 3, 1, 0; 2017 UN_{145}, 3, 1, 0; 2017 XS_{80}, 3, 1, 0; 2019 PR_{64}, 3, 1, 0; 2019 QQ_{72}, 3, 1, 0; 2020 FV_{14}, 3, 1, 0; 2020 HS_{121}, 6, 2, 2; 2020 LR_{13} *, 3, 1, 0; 2020 MY_{40} *, 3, 1, 0; 2021 MV_3, 3, 1, 0; 2021 PU_9 *, 6, 1, 0; 2021 PJ_{27} *, 11, 3, 6; 2021 PY_{40}, 3, 1, 0; 2021 PZ_{66}, 3, 1, 0; 2021 QG_1, 3, 1, 0; 2021 QL_9, 3, 1, 0; 2021 QY_{10}, 3, 1, 0; 2021 QJ_{21}, 3, 1, 0; 2021 RA_{10}, 4, 1, 0; 2021 RG_{10}, 3, 1, 0; (1264), 3, 1, 0; (20816), 3, 1, 0; (96784), 3, 1, 0; (102202), 3, 1, 0; (125515), 3, 1, 0; (210551), 3, 1, 0; (303648), 3, 1, 0; (439902), 3, 1, 0; (448714), 3, 1, 0; (506589), 3, 1, 0; (507736), 3, 1, 0; (508909), 3, 1, 0; (575986), 3, 1, 0; *[266, 82, 4*, 2020/01/01–2021/09/12]*

W33 Transit Dreams Observatory, Campobello

Observer D. Wilde. 0.36-m Schmidt-Cassegrain + CCD.

2000 WH_{200}, 2, 1, 0; 2021 PB_{15}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; (169), 3, 1, 0; (614), 3, 1, 0; (982), 2, 1, 0; (1923), 3, 1, 0; (2453), 3, 1, 0; (3304), 3, 1, 0; (3797), 3, 1, 0; (3913), 3, 1, 0; (4023), 3, 1, 0; (4660), 6, 2, 9; (5582), 3, 1, 0; (6041), 3, 1, 0; (6480), 3, 1, 0; (6850), 3, 1, 0; (6861), 3, 1, 0; (7280), 3, 1, 0; (8026), 3, 1, 0; (8123), 3, 1, 0; (8542), 3, 1, 0; (8574), 3, 1, 0; (8836), 3, 1, 0; (9022), 2, 1, 0; (9454), 3, 1, 0; (9516), 3, 1, 0; (9996), 3, 1, 0; (10443), 3, 1, 0; (11445), 3, 1, 0; (11601), 3, 1, 0; (12434), 2, 1, 0; (12452), 3, 1, 0; (12487), 3, 1, 0; (12674), 3, 1, 0; (13161), 3, 1, 0; (13203), 3, 1, 0; (13840), 3, 1, 0; (14958), 2, 1, 0; (15234), 3, 1, 0; (16060), 6, 2, 9; (16121), 3, 1, 0; (17319), 3, 1, 0; (17458), 3, 1, 0; (17813), 3, 1, 0; (18564), 3, 1, 0; (19548), 3, 1, 0; (21558), 3, 1, 0; (21772), 2, 1, 0; (22822), 3, 1, 0; (23100), 5, 2, 9; (23369), 3, 1, 0; (27448), 3, 1, 0; (27764), 3, 1, 0; (29572), 3, 1, 0; (30375), 3, 1, 0; (31215), 6, 2, 9; (31581), 3, 1, 0; (32585), 3, 1, 0; (33770), 3, 1, 0; (34014), 3, 1, 0; (34373), 3, 1, 0; (35101), 2, 1, 0; (36038), 3, 1, 0; (37145), 3, 1, 0; (37666), 3, 1, 0; (38062), 3, 1, 0; (39014), 3, 1, 0; (39250), 3, 1, 0; (39417), 2, 1, 0; (39902), 3, 1, 0; (39922), 3, 1, 0; (39924), 2, 1, 0; (40432), 2, 1, 0; (40539), 3, 1, 0; (40598), 3, 1, 0; (41729), 3, 1, 0; (44168), 3, 1, 0; (44267), 3, 1, 0; (45239), 3, 1, 0; (45865), 3, 1, 0; (45954), 3, 1, 0; (46232), 3, 1, 0; (47199), 3, 1, 0; (49624), 3, 1, 0; (49922), 6, 2, 9; (53584), 3, 1, 0; (53662), 3, 1, 0; (54445), 2, 1, 0; (54589), 3, 1, 0; (58087), 3, 1, 0; (59862), 3, 1, 0; (62033), 3, 1, 0; (62157), 3, 1, 0; (62314), 3, 1, 0; (65508), 3, 1, 0; (66368), 3, 1, 0; (66701), 1, 1, 0; (67318), 2, 1, 0; (68160), 3, 1, 0; (68966), 3, 1, 0; (69112), 3, 1, 0; (69446), 3, 1, 0; (73901), 3, 1, 0; (74860), 3, 1, 0; (79029), 3, 1, 0; (79923), 3, 1, 0; (80713), 3, 1, 0; (81616), 3, 1, 0; (82754), 3, 1, 0; (84415), 3, 1, 0; (84932), 3, 1, 0; (85660), 3, 1, 0; (85726), 3, 1, 0; (87537), 3, 1, 0; (88007), 3, 1, 0; (88091), 3, 1, 0; (91065), 3, 1, 0; (91148), 3, 1, 0; (91168), 3, 1, 0; (91339), 3, 1, 0; (92657), 3, 1, 0; (93185), 3, 1, 0; (93489), 3, 1, 0; (96373), 3, 1, 0; (97724), 3, 1, 0; (102136), 3, 1, 0; (102244), 3, 1, 0; (111020), 3, 1, 0; (113122), 3, 1, 0; (122854), 3, 1, 0; (123076), 3, 1, 0; (125984), 3, 1, 0; (127742), 3, 1, 0; (130980), 6, 2, 9; (133932), 3, 1, 0; (139617), 3, 1, 0; (140030), 3, 1, 0; (141503), 3, 1, 0; (143361), 3, 1, 0; (144867), 3, 1, 0; (145426), 3, 1, 0; (147678), 6, 2, 9; (152664), 3, 1, 0; (153649), 3, 1, 0; (154704), 3, 1, 0; (160725), 3, 1, 0; (162510), 3, 1, 0; (164451), 3, 1, 0; (167019), 3, 1, 0; (176022), 3, 1, 0; (178477), 3, 1, 0; (179941), 3, 1, 0; (180195), 3, 1, 0; (185727), 3, 1, 0; (185855), 3, 1, 0; (189056), 3, 1, 0; (190550), 3, 1, 0; (192000), 2, 1, 0; (192641), 3, 1, 0; (192749), 3, 1, 0; (192757), 3, 1, 0; (195184), 3, 1, 0; (198216), 3, 1, 0; (201799), 6, 2, 9; (205539), 3, 1, 0; (208041), 3, 1, 0; (215226), 3, 1, 0; (218383), 3, 1, 0; (222623), 3, 1, 0; (228480), 3, 1, 0; (236798), 2, 1, 0; (247616), 3, 1, 0; (248081), 3, 1, 0; (248479), 3, 1, 0; (249104), 3, 1, 0; (249775), 3, 1, 0; (258171), 2, 1, 0; (261147), 3, 1, 0; (264199), 3, 1, 0; (269648), 3, 1, 0; (278775), 3, 1, 0; (285871), 2, 1, 0; (295493), 3, 1, 0; (306670), 6, 2, 9; (310456), 3, 1, 0; (313677), 3, 1, 0; (315406), 3, 1, 0; (333287), 3, 1, 0; (371115), 3, 1, 0; (393685), 3, 1, 0; (399993), 3, 1, 0; (402173), 3, 1, 0; (417460), 3, 1, 0; (438074), 3, 1, 0; (445277), 6, 2, 9; (471770), 3, 1, 0; (493111), 3, 1, 0; (509720), 3, 1, 0; (583493), 3, 1, 0; *[611, 200, 0*, 2021/08/10–2021/09/12]*

W34 Squirrel Valley Observatory, Columbus

Observer R. L. Flynn. 0.36-m $f/1.9$ Schmidt-Cassegrain + CCD.

2000 PA_{13}, 3, 1, 0; 2007 TE_{66}, 3, 1, 0; 2008 US_{175}, 3, 1, 0; 2010 LG_{38}, 3, 1, 0; 2011 UO_{108}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2014 SE_{232}, 3, 1, 0; 2014 WY_{102}, 3, 1, 0; 2015 BU_{520}, 3, 1, 0; 2016 WX_{73}, 3, 1, 0; 2019 NC_1, 3, 1, 0; 2019 UD_4, 3, 1, 0; 2021 LH_9, 3, 1, 0; 2021 LN_{15}, 3, 1, 0; 2021 PC_{10}, 3, 1, 0; 2021 PE_{10}, 3, 1, 0; 2021 QE_1, 3, 1, 0; 2021 QM_1, 3, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QV_6, 3, 1, 0; 2021 RA_1, 3, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RC_1, 3, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RW_4, 3, 1, 0; 2021 RR_5, 3, 1, 0; 2021 RS_5, 3, 1, 0; 2021 RG_6, 6, 1, 0; 2021 RO_9, 3, 1, 0; 2021 RA_{10}, 3, 1, 0; 2021 RF_{10}, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RL_{15}, 3, 1, 0; (2464), 3, 1, 0; (5306), 3, 1, 0; (8040), 3, 1, 0; (13975), 3, 1, 0; (17562), 3, 1, 0; (19497), 3, 1, 0; (20672), 3, 1, 0; (21699), 3, 1, 0; (24948), 3, 1, 0; (26621), 3, 1, 0; (30463), 3, 1, 0; (34404), 3, 1, 0; (34567), 3, 1, 0; (35390), 3, 1, 0; (40539), 3, 1, 0; (52006), 3, 1, 0; (59987), 3, 1, 0; (60348), 3, 1, 0; (61915), 3, 1, 0; (65140), 3, 1, 0; (65382), 3, 1, 0; (65707), 3, 1, 0; (68000), 3, 1, 0; (69374), 3, 1, 0; (77082), 3, 1, 0; (78155), 3, 1, 0; (79536), 3, 1, 0; (89931), 3, 1, 0; (90862), 3, 1, 0; (91455), 3, 1, 0; (97497), 3, 1, 0; (100860), 3, 1, 0; (101997), 3, 1, 0; (111944), 3, 1, 0; (114370), 3, 1, 0; (118405), 3, 1, 0; (118902), 3, 1, 0; (120100), 3, 1, 0; (132728), 3, 1, 0; (146173), 3, 1, 0; (162668), 3, 1, 0; (164460), 3, 1, 0; (164656), 3, 1, 0; (168855), 3, 1, 0; (173926), 3, 1, 0; (191859), 3, 1, 0; (192000), 3, 1, 0; (202733), 3, 1, 0; (228224), 3, 1, 0; (231838), 3, 1, 0; (237404), 3, 1, 0; (255140), 3, 1, 0; (268158), 3, 1, 0; (282631), 3, 1, 0; (283460), 3, 1, 0; (299303), 3, 1, 0; (303750), 3, 1, 0; (307800), 3, 1, 0; (312878), 3, 1, 0; (329669), 3, 1, 0; (331528), 3, 1, 0; (334758), 3, 1, 0; (353938), 3, 1, 0; (360700), 3, 1, 0; (380410), 3, 1, 0; (465443), 3, 1, 0; (478385), 3, 1, 0; (503098), 3, 1, 0; (507063), 3, 1, 0; (523668), 3, 1, 0; (556439), 3, 1, 0; (579568), 3, 1, 0; (583493), 3, 1, 0; (585496), 3, 1, 0; *[327, 108, 0*, 2021/08/09–2021/09/14]*

W38 Dark Sky Observatory, Boone

Observers A. Aran, S. Jupally, J. Kim, J. Shoemaker, M. Sinclair, A. Tang. 0.36-m $f/12.2$ reflector + CCD, 0.43-m $f/6.8$ reflector + CCD. (03)

(12538), 3, 1, 0; (68063), 3, 1, 0; *[6, 2, 0*, 2021/06/30–2021/07/07]*

W46 Foxfire Village

Observer J. Haidet. 0.36-m $f/6.3$ Ritchey-Chrétien + CCD.

2001 EC, 3, 1, 0; 2005 TR_{45}, 3, 1, 0; 2011 LD_{20}, 3, 1, 0; 2011 SZ_{21}, 3, 1, 0; 2011 UC_{292}, 3, 1, 0; 2021 PT, 3, 1, 0; 2021 PR_2, 3, 1, 0; 2021 PS_2, 3, 1, 0; 2021 PY_{40}, 3, 1, 0; 2021 QC_1, 3, 1, 0; (54686), 3, 1, 0; (68063), 3, 1, 0; (85709), 3, 1, 0; (283457), 3, 1, 0; (283460), 3, 1, 0; (285571), 3, 1, 0; (353938), 3, 1, 0; (523668), 3, 1, 0; *[54, 18, 0*, 2021/08/19–2021/09/15]*

W76 CHILESCOPE Observatory, Rio Hurtad

Observer N. Falla. 0.50-m $f/3.8$ reflector + CCD. (07)
Observer M. Serra-Ricart. Measurers S. Lemes-Perera, B. Alurin. (12)
Observer T. Kessler. 0.50-m $f/3.8$ Newtonian reflector + CCD. (14)

{12} 2018 TU_{42}, 5, 1, 0; *[5, 1, 0*, 2018/11/04]*

{14} 2003 UQ_{390}, 4, 1, 0; 2011 SP_{334}, 3, 1, 0; 2014 UA_{236}, 3, 1, 0; 2016 GT_{163}, 4, 1, 0; 2016 VC_{22}, 3, 1, 0; 2021 NE_{42}, 3, 1, 0; 2021 OL_{15}, 3, 1, 0; (43470), 3, 1, 0; (52271), 3, 1, 0; (63636), 3, 1, 0; (68307), 3, 1, 0; (87114), 3, 1, 0; (93339), 3, 1, 0; (102178), 3, 1, 0; (108772), 3, 1, 0; (115576), 3, 1, 0; (151111), 3, 1, 0; (192899), 3, 1, 0; (201670), 3, 1, 0; (217298), 3, 1, 0; (230398), 3, 1, 0; (231245), 3, 1, 0; (232133), 3, 1, 0; (255646), 3, 1, 0; (259472), 3, 1, 0; (307107), 3, 1, 0; (309438), 3, 1, 0; (330385), 3, 1, 0; (475139), 3, 1, 0; (510373), 3, 1, 0; (569484), 3, 1, 0; (571089), 3, 1, 0; (572909), 3, 1, 0; (579911), 3, 1, 0; *[104, 34, 0*, 2021/02/13–2021/09/04]*

{7} 2012 TX_{284}, 3, 1, 0; *[3, 1, 0*, 2021/09/14]*

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Observers F. Selman, M. Micheli, K. Vivas. Measurer F. Valdes. 4.0-m CTIO reflector. (03)
Observers E. E. Mamajek, E. Scott, D. J. James. Measurer D. A. Cameron. 4.0-m reflector. (06)
Observer S. Sheppard. Measurer A. Cowlagi. 4.0-m $f/2.87$ reflector + CCD. (07)
Observers S. Sheppard, C. Trujillo, C. Fuentes, E. Kado-Fong, E. Wasleske, J. Green, D. Trilling. Measurer F. Valdes. 4.0-m CTIO reflector. (10)
Observers M. T. Penny, T. G. Beatty. Measurer M. L. Newman. 4.0-m reflector. (20)
Observers M. Gill, K. Furnell, R. Wilkinson, R. Das, A. Pace, M. Rodriguez-Monroy. Measurer C. M. Foster. 4.0-m CTIO reflector + CCD. (26)
Observers S. S. Sheppard, A. Drlica-Wagner, C. Martinez-Vazquez, S. D. Mau, L. Santana-Silva. Measurers D. J. Tholen, S. S. Sheppard. 4.0-m $f/2.94$ reflector. (27)
Observer D. E. Survey. Measurers P. Bernardinelli, G. Bernstein, M. Sako. 4.0-m CTIO reflector + CCD. (28)

{10} 1995 SS_{67}, 63, 2, 2; 1995 UL_{35}, 3, 1, 0; 1996 AB_6, 11, 2, 1; 1997 SF_{26}, 6, 1, 0; 1998 KH_{42}, 130, 3, 8; 1998 SV_{181}, 6, 1, 0; 1999 BW_{27}, 3, 1, 0; 1999 SO_{29}, 6, 1, 0; 1999 YJ_{20}, 3, 1, 0; 2000 CR_{151}, 3, 1, 0; 2000 EE_{209}, 3, 1, 0; 2000 OE_{70}, 6, 1, 0; 2000 QS_{211}, 23, 2, 1; 2000 SH_{340}, 3, 1, 0; 2000 SB_{378}, 27, 1, 0; 2001 FL_{245}, 36, 1, 0; 2001 HA_{70}, 118, 3, 2; 2001 LO, 12, 2, 1; 2001 UO_{186}, 3, 1, 0; 2001 VW_{138}, 22, 1, 0; 2001 WL_{76}, 6, 1, 0; 2002 AO_{21}, 5, 1, 0; 2002 AA_{34}, 6, 1, 0; 2002 AW_{211}, 65, 2, 7; 2002 AH_{216}, 49, 1, 0; 2002 CH_{187}, 42, 1, 0; 2002 FY_{36}, 3, 1, 0; 2002 GW_{190}, 60, 1, 0; 2002 GJ_{192}, 70, 1, 0; 2002 GQ_{197}, 72, 2, 7; 2002 QU_{75}, 67, 1, 0; 2002 QJ_{78},

6, 1, 0; 2002 RL_{146}, 98, 2, 1; 2002 TT_{351}, 8, 1, 0; 2002 UM_{68}, 136, 3, 4; 2003 AE_{95}, 68, 2, 1; 2003 BW_{92}, 8, 1, 0; 2003 CX_{22}, 42, 1, 0; 2003 EM_{36}, 38, 2, 2; 2003 FH_{42}, 7, 1, 0; 2003 JS_{20}, 41, 1, 0; 2003 QO_{125}, 47, 1, 0; 2003 SA_{368}, 3, 1, 0; 2003 SX_{387}, 46, 1, 0; 2003 SK_{424}, 42, 1, 0; 2003 SX_{430}, 99, 3, 8; 2003 SS_{438}, 36, 1, 0; 2003 ST_{456}, 40, 1, 0; 2003 SO_{463}, 4, 1, 0; 2003 SR_{472}, 11, 2, 1; 2003 SQ_{473}, 3, 1, 0; 2003 UB_{126}, 6, 1, 0; 2003 UZ_{335}, 70, 1, 0; 2003 US_{421}, 3, 1, 0; 2003 UN_{435}, 109, 3, 4; 2003 UD_{443}, 3, 1, 0; 2003 YM_{183}, 3, 1, 0; 2004 BU_{155}, 61, 2, 1; 2004 FN_{172}, 63, 2, 2; 2004 LR_{31}, 70, 1, 0; 2004 PY_{119}, 56, 1, 0; 2004 PG_{121}, 5, 1, 0; 2004 PJ_{121}, 40, 1, 0; 2004 QR_{30}, 6, 1, 0; 2004 RS_{116}, 12, 1, 0; 2004 RT_{139}, 31, 1, 0; 2004 RQ_{142}, 65, 1, 0; 2004 RN_{199}, 39, 1, 0; 2004 RQ_{239}, 61, 2, 1; 2004 RT_{357}, 70, 1, 0; 2004 SK_{7}, 6, 1, 0; 2004 SV_{64}, 42, 1, 0; 2004 SP_{65}, 3, 1, 0; 2004 TU_{39}, 68, 1, 0; 2004 TN_{94}, 70, 1, 0; 2004 TG_{257}, 37, 1, 0; 2004 TT_{312}, 112, 2, 3; 2004 TR_{373}, 114, 3, 8; 2004 TJ_{382}, 6, 1, 0; 2004 XA_{148}, 27, 1, 0; 2005 CD_{28}, 70, 1, 0; 2005 CP_{66}, 6, 1, 0; 2005 EU_{312}, 3, 1, 0; 2005 EH_{320}, 54, 1, 0; 2005 ED_{338}, 3, 1, 0; 2005 FR_{16}, 6, 1, 0; 2005 GJ_{52}, 3, 1, 0; 2005 GW_{192}, 61, 1, 0; 2005 GR_{194}, 65, 2, 2; 2005 JV_{159}, 15, 1, 0; 2005 JL_{193}, 6, 1, 0; 2005 MZ_{53}, 3, 1, 0; 2005 MK_{56}, 5, 1, 0; 2005 NB_{103}, 10, 1, 0; 2005 NC_{129}, 41, 1, 0; 2005 OK_{35}, 26, 1, 0; 2005 PM_{8}, 6, 1, 0; 2005 QA_{188}, 14, 1, 0; 2005 SE_{242}, 62, 1, 0; 2005 TJ_{114}, 21, 1, 0; 2005 TF_{189}, 4, 1, 0; 2005 TA_{221}, 3, 1, 0; 2005 UF_{15}, 8, 2, 5; 2005 UE_{37}, 6, 1, 0; 2005 UU_{39}, 5, 1, 0; 2005 UU_{102}, 42, 1, 0; 2005 UU_{269}, 6, 1, 0; 2005 UJ_{356}, 22, 1, 0; 2005 UH_{427}, 9, 1, 0; 2005 UU_{465}, 4, 1, 0; 2005 UX_{465}, 23, 1, 0; 2005 UM_{514}, 34, 2, 1; 2005 WF_{38}, 40, 2, 1; 2005 XL_{58}, 6, 1, 0; 2005 XW_{95}, 60, 1, 0; 2005 YL_{245}, 36, 1, 0; 2006 BZ_{49}, 40, 1, 0; 2006 BQ_{200}, 3, 1, 0; 2006 BM_{249}, 33, 1, 0; 2006 BS_{300}, 83, 2, 1; 2006 CR_{14}, 55, 1, 0; 2006 CU_{73}, 9, 2, 4; 2006 DO_{103}, 23, 1, 0; 2006 DC_{205}, 36, 1, 0; 2006 EG_{2}, 12, 1, 0; 2006 EO_{6}, 74, 2, 1; 2006 EJ_{77}, 66, 1, 0; 2006 EF_{78}, 6, 1, 0; 2006 FN_{6}, 6, 1, 0; 2006 FS_{57}, 27, 2, 4; 2006 GR_{53}, 132, 3, 8; 2006 HV_{61}, 6, 1, 0; 2006 JN_{8}, 4, 1, 0; 2006 KJ_{146}, 6, 2, 1; 2006 KP_{156}, 3, 1, 0; 2006 QB_{10}, 70, 2, 2; 2006 QN_{86}, 3, 1, 0; 2006 SV_{102}, 29, 1, 0; 2006 SM_{146}, 117, 2, 3; 2006 SD_{168}, 25, 1, 0; 2006 SZ_{198}, 43, 1, 0; 2006 SC_{231}, 70, 1, 0; 2006 SB_{251}, 63, 2, 1; 2006 SW_{405}, 5, 1, 0; 2006 SW_{425}, 13, 1, 0; 2006 TV_{2}, 42, 1, 0; 2006 TM_{141}, 58, 1, 0; 2006 TK_{144}, 4, 1, 0; 2006 UL_{79}, 28, 1, 0; 2006 UZ_{102}, 27, 1, 0; 2006 UE_{136}, 3, 1, 0; 2006 UL_{163}, 42, 1, 0; 2006 UN_{169}, 69, 1, 0; 2006 UV_{263}, 72, 2, 1; 2006 UX_{268}, 6, 2, 1; 2006 US_{307}, 68, 1, 0; 2006 UO_{316}, 62, 2, 1; 2006 UX_{316}, 12, 2, 1; 2006 UT_{318}, 139, 3, 4; 2006 UH_{353}, 62, 1, 0; 2006 VP_{151}, 39, 1, 0; 2006 VK_{177}, 3, 1, 0; 2006 VB_{181}, 6, 1, 0; 2006 VJ_{181}, 9, 2, 1; 2006 WK_{232}, 3, 1, 0; 2006 XS_{82}, 3, 1, 0; 2007 AC_{9}, 46, 2, 1; 2007 AA_{38}, 72, 2, 1; 2007 BV_{96}, 3, 1, 0; 2007 BG_{98}, 10, 1, 0; 2007 BA_{119}, 5, 1, 0; 2007 CB_{10}, 70, 1, 0; 2007 CL_{84}, 105, 2, 3; 2007 DM_{42}, 36, 1, 0; 2007 DN_{119}, 12, 2, 1; 2007 DB_{132}, 6, 1, 0; 2007 EA_{29}, 25, 1, 0; 2007 EV_{60}, 12, 1, 0; 2007 EM_{65}, 6, 1, 0; 2007 EJ_{196}, 30, 1, 0; 2007 EE_{222}, 21, 1, 0; 2007 EC_{228}, 61, 1, 0; 2007 EV_{228}, 41, 1, 0; 2007 EP_{240}, 21, 1, 0; 2007 JM_{5}, 6, 1, 0; 2007 PU_{52}, 6, 1, 0; 2007 RG_{11}, 4, 1, 0; 2007 RJ_{61}, 6, 1, 0; 2007 RV_{101}, 140, 3, 4; 2007 RE_{165}, 4, 1, 0; 2007 RJ_{330}, 61, 1, 0; 2007 RG_{343}, 33, 1, 0; 2007 RF_{347}, 80, 2, 6; 2007 RL_{361}, 6, 1, 0; 2007 TG_{207}, 3, 1, 0; 2007 TM_{286}, 109, 2, 1; 2007 TL_{293}, 3, 1, 0; 2007 TJ_{341}, 3, 1, 0; 2007 TG_{433}, 11, 2, 1; 2007 TM_{467}, 3, 1, 0; 2007 TY_{483}, 6, 1, 0; 2007 UK_{88}, 65, 1, 0; 2007 UX_{162}, 13, 1, 0; 2007 VG_{23}, 5, 2, 1; 2007 VM_{105}, 32, 1, 0; 2007 VA_{115}, 3, 1, 0; 2007 VX_{172}, 66, 1, 0; 2007 VP_{281}, 68, 1, 0; 2007 VJ_{327}, 3, 1, 0; 2007 VR_{378}, 3, 1, 0; 2007 XZ_{11}, 3, 1, 0; 2007 XB_{27}, 3, 1, 0; 2007 YY_{28}, 3, 1, 0; 2007 YO_{44}, 6, 1, 0; 2008 AX_{26}, 69, 2, 1; 2008 AD_{52}, 12, 2, 1; 2008 AP_{85}, 60, 1, 0; 2008 AR_{88}, 67, 2, 1; 2008 AN_{150}, 52, 1, 0; 2008 AV_{155}, 1, 1, 0; 2008 BC_{27}, 65, 1, 0; 2008 BC_{31}, 27, 1, 0; 2008 BV_{50}, 5, 1, 0; 2008 BK_{59}, 5, 1, 0; 2008 BY_{59}, 4, 1, 0; 2008 BZ_{59}, 63, 1, 0; 2008 CT_{34}, 64, 1, 0; 2008 CS_{66}, 62, 2, 1; 2008 CW_{74}, 3, 1, 0; 2008 CC_{81}, 62, 1, 0; 2008 CF_{98}, 10, 1, 0; 2008 CR_{139}, 42, 1, 0; 2008 CJ_{154}, 64, 1, 0; 2008 CJ_{237}, 30, 1, 0; 2008 CC_{246}, 40, 1, 0; 2008 DJ_{30}, 57, 2, 2; 2008 DW_{62}, 60, 1, 0; 2008 DM_{78}, 46, 1, 0; 2008 DB_{99}, 6, 1, 0; 2008 EW_{23}, 68, 2, 1; 2008 EF_{79}, 54, 2, 1; 2008 EE_{157}, 6, 1, 0; 2008 EW_{177}, 16, 2, 4; 2008 EH_{180}, 122, 3, 8; 2008 EL_{195}, 3, 1, 0; 2008 FY_{3}, 51, 1, 0; 2008 FY_{29}, 70, 1, 0; 2008 FA_{126}, 69, 1, 0; 2008 GR_{36}, 11, 2, 2; 2008 GW_{57}, 64, 1, 0; 2008 GL_{153}, 33, 1, 0; 2008 JQ_{53}, 19, 1, 0; 2008 JX_{53}, 4, 1, 0; 2008 OS_{32}, 3, 1, 0; 2008 OU_{32}, 6, 1, 0; 2008 QM_{37}, 6, 1, 0; 2008 RY_{74}, 6, 1, 0; 2008 RD_{88}, 6, 1, 0; 2008 RQ_{150}, 70, 1, 0; 2008 RD_{151}, 3, 1, 0; 2008 RL_{151}, 69, 2, 3; 2008 RA_{159}, 6, 1, 0; 2008 RJ_{180}, 59, 1, 0; 2008 ST_{20}, 64, 2, 2; 2008 SU_{222}, 64, 1, 0; 2008 SJ_{278}, 38, 1, 0; 2008 SW_{315}, 13, 2, 2; 2008 TO, 3, 1, 0; 2008 TO_{80}, 62, 1, 0; 2008 TO_{101}, 161, 1, 0; 2008 TK_{104}, 27, 1, 0; 2008 TT_{106}, 75, 2, 1; 2008 TB_{135}, 63, 2, 2; 2008 TN_{195}, 3, 1, 0; 2008 TX_{195}, 58, 1, 0; 2008 TA_{212}, 62, 1, 0; 2008 TW_{227}, 61, 1, 0; 2008 TF_{229}, 3, 1, 0; 2008 UJ_{18}, 9, 2, 4; 2008 UH_{46}, 7, 1, 0; 2008 US_{77}, 5, 1, 0; 2008 UB_{106}, 65, 1, 0; 2008 UC_{110}, 3, 1, 0; 2008 UH_{377}, 4, 1, 0; 2008 UE_{417}, 8, 1, 0; 2008 UN_{417}, 3, 1, 0; 2008 VL_{83}, 9, 1, 0; 2008 WC_{30}, 75, 2, 1; 2008 WC_{77}, 3, 1, 0; 2008 WF_{99}, 40, 1, 0; 2008 WZ_{104}, 6, 1, 0; 2008 WU_{108}, 3, 1, 0; 2008 WA_{145}, 40, 1, 0; 2008 XY_{15}, 3, 1, 0; 2008 XP_{36}, 3, 1, 0; 2008 XG_{64}, 98, 3, 8; 2008 YG_{18}, 6, 1, 0; 2008 YC_{94}, 17, 1, 0; 2008 YW_{177}, 70, 1, 0; 2008 YK_{181}, 6, 2, 4; 2008 YD_{194}, 4, 1, 0; 2009 BA_{165}, 60, 2, 1; 2009 CU_{8}, 37, 3, 4; 2009 CX_{25}, 7, 1, 0; 2009 DY_{1}, 6, 1, 0; 2009 DT_{21}, 3, 1, 0; 2009 DS_{67}, 17, 2, 4; 2009 DE_{69}, 4, 1, 0; 2009 DX_{112}, 62, 1, 0; 2009 DP_{114}, 6, 1, 0; 2009 DQ_{157}, 65, 1, 0; 2009 EG_{40}, 47, 2, 1; 2009 EA_{42}, 3, 1, 0; 2009 EJ_{42}, 3, 1, 0; 2009 FF_{91}, 11, 1, 0; 2009 FR_{94}, 3, 1, 0; 2009 GE_{7}, 5, 1, 0; 2009 HE_{41}, 49, 1, 0; 2009 HK_{119}, 7, 1, 0; 2009 HN_{119}, 70, 2, 1; 2009 HW_{120}, 60, 1, 0; 2009 HV_{121}, 4, 1, 0; 2009 HD_{126}, 12, 1, 0; 2009 JN_{6}, 63, 2, 2; 2009 KS_{38}, 12, 2, 1; 2009 KA_{44}, 6, 1, 0; 2009 NR, 42, 1, 0; 2009 RR_{38}, 124, 2, 8; 2009 RH_{83}, 8, 1, 0; 2009 SC_{419}, 168, 3, 6; 2009 UD_{68}, 70, 1, 0; 2009 UK_{177}, 35, 1, 0; 2009 VG_{85}, 4, 1, 0; 2009 WL_{57}, 3, 1, 0; 2009 WL_{108}, 20, 1, 0; 2009 WT_{275}, 3, 1, 0; 2009 WJ_{298}, 9, 1, 0; 2009 XS_{4}, 109, 2, 3; 2009 YV_{30}, 6, 1, 0; 2010 AP_{14}, 15, 3, 6; 2010 AN_{78}, 50, 2, 1; 2010 AF_{145}, 15, 3, 12; 2010 AR_{157}, 3, 1, 0; 2010 AO_{160}, 63, 1, 0; 2010 AB_{164}, 39, 1, 0; 2010 BG_{81}, 42, 1, 0; 2010 BP_{108}, 20, 2, 1; 2010 BY_{113}, 7, 1, 0; 2010 CV_{3}, 23, 1, 0; 2010 CW_{24}, 11, 2, 1; 2010 CV_{39}, 3, 1, 0; 2010 CX_{62}, 9, 2, 5; 2010 CS_{85}, 5, 1, 0; 2010 CJ_{97}, 25, 1, 0; 2010 CM_{103}, 15, 2, 7; 2010 CT_{105}, 63, 2, 2; 2010 DU_{96}, 69, 1, 0; 2010 EU_{143}, 4, 2, 1; 2010 FC_{23}, 54, 2, 2327; 2010 FN_{139}, 38, 1, 0; 2010 FU_{143}, 4, 1, 0; 2010 GU_{109}, 6, 2, 3; 2010 GE_{178}, 9, 2, 1; 2010 GH_{201}, 3, 1, 0; 2010 HK_{38}, 74, 3, 6; 2010 HH_{133}, 70, 1, 0; 2010 JY_{106}, 6, 1, 0; 2010 JN_{117}, 14, 1, 0; 2010 JQ_{166}, 5, 1, 0; 2010 KH_{13}, 101, 2, 1; 2010 KS_{16}, 61, 1, 0; 2010 KR_{70}, 3, 1, 0; 2010 KQ_{71}, 27, 1, 0; 2010 KP_{73}, 41, 1, 0; 2010 KA_{107}, 62, 2, 1; 2010 KY_{121}, 99, 2, 6; 2010 LW_{56}, 5, 1, 0; 2010 LA_{68}, 3, 1, 0; 2010 LB_{103}, 4, 1, 0; 2010 LK_{103}, 54, 3, 6; 2010 LM_{126}, 3, 1, 0; 2010 LQ_{159}, 4, 1, 0; 2010 MH_{112}, 3, 1, 0; 2010 MT_{127}, 6, 1, 0; 2010 ME_{148}, 70, 2, 1; 2010 NH_{83}, 3, 1, 0; 2010 NP_{146}, 5, 1, 0; 2010 OK_{1}, 7, 1, 0; 2010 PF_{47}, 10, 2, 17; 2010 RG, 4, 1, 0; 2010 RA_{3}, 105, 2, 1; 2010 RG_{46}, 70, 1, 0; 2010 RR_{110}, 43, 1, 0; 2010 RG_{129}, 9, 2, 1; 2010 RT_{167}, 3, 1, 0; 2010 RY_{193}, 60, 1, 0; 2010 RC_{195}, 78, 2, 1; 2010 RU_{203}, 6, 1, 0; 2010 RJ_{207}, 105, 3, 3; 2010 RL_{217}, 116, 3, 4; 2010 RT_{217}, 17, 1, 0; 2010 RE_{218}, 61, 1, 0; 2010 SH_{4}, 3, 1, 0; 2010 SU31, 69, 1, 0; 2010 TN_{28}, 50, 2, 1; 2010 TL_{108}, 54, 2, 1; 2010 TU_{120}, 64, 1, 0; 2010 TS_{166}, 5, 1, 0; 2010 TE_{179}, 5, 1, 0; 2010 TR_{211}, 65, 1, 0; 2010 TE_{225}, 4, 1, 0; 2010 TN_{225}, 17, 1, 0; 2010 TN_{227}, 3, 1, 0; 2010 UE_{2}, 64, 2, 1; 2010 UC_{127}, 70, 2, 1; 2010 VQ_{129}, 21, 1, 0; 2010 VC_{242}, 57, 1, 0; 2010 XE_{39}, 30, 1, 0; 2010 XX_{91}, 41, 1, 0; 2010 XL_{100}, 40, 1, 0; 2010 XG_{118}, 3, 1, 0; 2011 AW_{22}, 5, 1, 0; 2011 AF_{34}, 5, 1, 0; 2011 AY_{88}, 4, 1, 0; 2011 BR_{36}, 36, 1, 0; 2011 BU_{103}, 6, 1, 0; 2011 BN_{195}, 57, 1, 0; 2011 CE_{8}, 6, 1, 0; 2011 CL_{140}, 6, 1, 0; 2011 DG, 17, 1, 0; 2011 DA_{13}, 55, 1, 0; 2011 DY_{21}, 47, 1, 0; 2011 EK_{73}, 41, 1, 0; 2011 EQ_{83}, 35, 1, 0; 2011 ES_{88}, 3, 1, 0; 2011 EX_{90}, 58, 2, 1; 2011 EL_{104}, 6, 1, 0; 2011 EW_{107}, 2, 1, 0; 2011 EN_{109}, 1, 1, 0; 2011 FQ_{85}, 100, 2, 3; 2011 FR_{87}, 161, 4, 9; 2011 FW_{118}, 3, 1, 0; 2011 FL_{170}, 8, 1, 0; 2011 GE_{36}, 115, 3, 2; 2011 HH_{112}, 6, 1, 0; 2011 KM_{1}, 67, 2, 1; 2011 KM_{32}, 26, 1, 0; 2011 KN_{58}, 38, 1, 0; 2011 LE_{6}, 28, 1, 0; 2011 LU_{26}, 41, 2, 1; 2011 LV_{33}, 6, 1, 0; 2011 OM_{74}, 3, 1, 0; 2011 QM_{107}, 12, 1, 0; 2011 QM_{110}, 65, 1, 0; 2011 SQ_{139}, 60, 2, 1; 2011 SZ_{246}, 65, 1, 0; 2011 SE_{286}, 6, 1, 0; 2011 SG_{335}, 7, 1, 0; 2011 SJ_{335}, 3, 1, 0; 2011 SN_{335}, 5, 1, 0; 2011 SK_{337}, 3, 1, 0; 2011 US_{139}, 10, 1, 0; 2011 UN_{278}, 6, 1, 0; 2011 UZ_{284}, 66, 2, 1; 2011 UR_{294}, 5, 1, 0; 2011 UW_{311}, 3, 1, 0; 2011 UJ_{402}, 9, 2, 17; 2011 UE_{420}, 28, 1, 0; 2011 UW_{425}, 7, 1, 0; 2011 UO_{445}, 6, 1, 0; 2011 UC_{449}, 6, 1, 0; 2011 UW_{469}, 5, 1, 0; 2011 UV_{476}, 70, 1, 0; 2011 UD_{477}, 3, 1, 0; 2011 UX_{479}, 10, 1, 0; 2011 WK_{52}, 41, 3, 3; 2011 WV_{175}, 70, 1, 0; 2011 YV_{8}, 13, 1, 0; 2011 YX_{57}, 6, 1, 0; 2011 YN_{62}, 6, 1, 0; 2012 AB_{21}, 4, 1, 0; 2012 AD_{27}, 22, 2, 2; 2012 AN_{34}, 6, 1, 0; 2012 BE_{5}, 284, 2, 1; 2012 BE_{15}, 3, 1, 0; 2012 BJ_{49}, 6, 1, 0; 2012 BU_{75}, 63, 3, 3; 2012 BB_{97}, 12, 1, 0; 2012 BL_{110}, 65, 1, 0; 2012 BP_{159}, 6, 1, 0; 2012 BM_{161}, 47, 1, 0; 2012 BA_{184}, 96, 2, 2; 2012 DP_{119}, 32, 1, 0; 2012 EZ_{21}, 17, 2, 5; 2012 FF_{45}, 27, 2, 1; 2012 FZ_{55}, 4, 1, 0; 2012 FZ_{65}, 33, 1, 0; 2012 FS_{109}, 6, 1, 0; 2012 HX_{4}, 11, 1, 0; 2012 HC_{72}, 6, 1, 0; 2012 HS_{108}, 5, 1, 0; 2012 HW_{108}, 11, 1, 0; 2012 JL_{23}, 54, 2, 1; 2012 LG_{15}, 3, 1, 0; 2012 LK_{25}, 3, 1, 0; 2012 PH_{2}, 6, 2, 1; 2012 PB_{48}, 6, 1, 0; 2012 PO_{58}, 9, 2, 1; 2012 PT_{58}, 4, 1, 0; 2012 QF_{29}, 3, 1, 0; 2012 QJ_{50}, 7, 2, 1; 2012 QG_{71}, 7, 2, 1; 2012 RH_{32}, 42, 1, 0; 2012 RY_{36}, 6, 1, 0; 2012 RY_{48}, 4, 1, 0; 2012 SU_{5}, 6, 2, 1; 2012 ST_{22}, 3, 1, 0; 2012 SH_{35}, 26, 1, 0; 2012 SU_{36}, 3, 1, 0; 2012 SP_{62}, 56, 1, 0; 2012 SQ_{68}, 3, 1, 0; 2012 SV_{76}, 64, 1, 0; 2012 SJ_{85}, 6, 1, 0; 2012 TF_{30}, 3, 1, 0; 2012 TJ_{30}, 3, 1, 0; 2012 TK_{40}, 3, 1, 0; 2012 TM_{40}, 3, 1, 0; 2012 TR_{59}, 70, 1, 0; 2012 TC_{106}, 4, 1, 0; 2012 TE_{153}, 6, 1, 0; 2012 TH_{158}, 72, 2, 2328; 2012 TX_{325}, 6, 1, 0; 2012 TP_{359}, 61, 1, 0; 2012 TB_{378}, 6, 2, 1; 2012 TG_{378}, 3, 1, 0; 2012 UX_{135}, 3, 1, 0; 2012 UD_{235}, 4, 1, 0; 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{15} 2002 FY_{36}, 15, 3, 2; 2010 VG_{270}, 2, 1, 0; 2012 UQ_{191}, 4, 3, 29; 2014 YA_{91}, 5, 2, 11; 2016 CB_{136}, 5, 1, 0; 2017 BG_{48}, 2, 1, 0; 2017 DQ_{106}, 4, 2, 1; 2017 FC_{22}, 2, 1, 0; 2017 SD_{93}, 2, 1, 0; 2017 SK_{262}, 6, 3, 15; 2018 JY_5, 2, 1, 0; 2018 VB_{14}, 8, 4, 33; *[57, 12, 0∗, 2014/04/22–2018/12/30]*

{20} 2018 BT_{28}, 41, 2, 3; (582578), 1, 1, 0; *[42, 2, 0∗, 2019/07/02–2019/08/05]*

{24} 2015 DF_{296} ∗, 14, 5, 10; 2021 HL_{27}, 20, 6, 25; *[34, 2, 1∗, 2015/02/17–2015/03/14]*

{3} 2012 DU_{126}, 14, 1, 0; 2017 QJ_{21}, 51, 1, 0; *[65, 2, 0∗, 2017/06/02]*

{6} 2013 JQ_{79}, 3, 1, 0; *[3, 1, 0∗, 2013/05/31]*

{7} 2010 CG_{271}, 84, 1, 0; 2010 TK_{114}, 49, 1, 0; 2010 UL_{129}, 48, 1, 0; *[181, 3, 0∗, 2019/04/03]*

{26} 2001 VW_{134}, 10, 2, 25; *[10, 1, 0∗, 2017/11/14–2017/12/09]*

{27} 2021 PH_{27}, 2, 2, 1; *[2, 1, 0∗, 2021/08/15–2021/08/16]*

{28} 1999 RG_{215}, 9, 8, 1756; 1999 RK_{215}, 9, 8, 734; 2000 QC_{226}, 16, 12, 767; 2001 QO_{297}, 31, 20, 1905; 2001 QP_{297}, 26, 14, 1870; 2001 QE_{298}, 16, 12, 1149; 2001 QH_{298}, 7, 7, 1055; 2001 QQ_{322}, 35, 22, 1904; 2001 QS_{322}, 23, 16, 1883; 2003 QV_{90}, 13, 12, 1831; 2003 QB_{91}, 30, 16, 1797; 2003 QM_{91}, 25, 17, 1480; 2003 QO_{91}, 13, 7, 789; 2003 QQ_{91}, 18, 11, 1410; 2003 QT_{91}, 23, 15, 1887; 2003 QX_{111}, 25, 17, 1838; 2003 QY_{111}, 19, 14, 1831; 2003 QZ_{111}, 31, 20, 1893; 2003 SQ_{317}, 33, 23, 1900; 2004 PW_{107}, 33, 24, 1884; 2004 PA_{108}, 12, 10, 1185; 2004 QE_{29}, 14, 8, 791; 2006 QQ_{180}, 30, 21, 1873; 2006 QA_{181}, 22, 15, 1794; 2006 QB_{181}, 17, 11, 1470; 2006 QE_{181}, 10, 8, 1396; 2006 QF_{181}, 16, 10, 1771; 2006 SG_{415}, 19, 11, 756; 2007 TZ_{417}, 13, 9, 1120; 2007 TB_{418}, 21, 13, 1447; 2007 VK_{302}, 10, 8, 1519; 2008 UA_{332}, 21, 15, 1514; 2010 JJ_{210}, 24, 16, 1515; 2010 RF_{64}, 30, 20, 1429; 2010 RD_{188}, 26, 19, 1742; 2010 RF_{188}, 23, 15, 1836; 2010 TJ, 26, 14, 1423; 2011 SW_{281}, 33, 20, 1841; 2012 TC_{324}, 30, 22, 1484; 2012 TD_{324}, 30, 23, 1905; 2012 WE_{37}, 12, 8, 788; 2012 WF_{37}, 20, 15, 1475; 2012 WG_{37}, 17, 16, 1467; 2013 QP_{95}, 27, 22, 1884; 2013 QX_{103} ∗, 15, 7, 1503; 2013 RB_{98}, 20, 15, 1877; 2013 RD_{98}, 16, 13, 1884; 2013 RP_{98}, 24, 17, 1910; 2013 RQ_{98}, 26, 18, 1894; 2013 RR_{98}, 36, 30, 1911; 2013 RX_{108}, 37, 22, 1872; 2013 RY_{108}, 30, 18, 1883; 2013 RZ_{108}, 13, 10, 471; 2013 RA_{109}, 24, 20, 1882; 2013 RB_{109}, 26, 18, 1912; 2013 RC_{109}, 17, 13, 725; 2013 RD_{109}, 25, 14, 1477; 2013 RE_{109}, 32, 23, 1872; 2013 RF_{109}, 38, 25, 1911; 2013 RG_{109}, 25, 17, 1173; 2013 RH_{109}, 20, 13, 1835; 2013 RJ_{109}, 28, 15, 1849; 2013 RK_{109}, 29, 20, 1838; 2013 RL_{109}, 20, 14, 1833; 2013 RM_{109}, 14, 10, 1510; 2013 RN_{109}, 26, 19, 1864; 2013 RO_{109}, 27, 18, 1902; 2013 RP_{109}, 32, 22, 1872; 2013 RQ_{109}, 26, 20, 1903; 2013 RR_{109}, 22, 13, 1526; 2013 RS_{109}, 19, 12, 1845; 2013 RD_{124}, 21, 11, 1911; 2013 RE_{124}, 20, 15, 1833; 2013 RF_{124}, 24, 16, 1872; 2013 RG_{124}, 29, 23, 1887; 2013 RH_{124}, 20, 16, 1838; 2013 RJ_{124}, 19, 11, 1152; 2013 RK_{124}, 28, 19, 1447; 2013 RM_{124}, 20, 15, 1892; 2013 RN_{124}, 24, 16, 1832; 2013 RO_{124}, 25, 16, 1833; 2013 RP_{124}, 15, 11, 1155; 2013 RQ_{124}, 15, 11, 1844; 2013 RR_{124}, 27, 14, 1828; 2013 RS_{124}, 16, 9, 1197; 2013 RT_{124}, 20, 15, 1475; 2013 RU_{124}, 17, 14, 1513; 2013 RV_{124}, 27, 18, 1886; 2013 RW_{124}, 24, 16, 1473; 2013 RX_{124}, 26, 13, 1880; 2013 RT_{128}, 21, 13, 1469; 2013 RU_{128}, 17, 10, 1835; 2013 RQ_{155} ∗, 13, 9, 1893; 2013 RR_{155} ∗, 11, 9, 1506; 2013 RS_{155} ∗, 14, 10, 1895; 2013 RT_{155} ∗, 14, 10, 1843; 2013 RU_{155} ∗, 21, 18, 1855; 2013 RV_{155} ∗, 22, 15, 1517; 2013 RW_{155} ∗, 22, 13, 1872; 2013 RX_{155} ∗, 18, 16, 1893; 2013 RY_{155} ∗, 16, 10, 1838; 2013 RZ_{155} ∗, 13, 9, 1838; 2013 RA_{156} ∗, 15, 11, 1161; 2013 RB_{156} ∗, 9, 9, 1891; 2013 RC_{156} ∗, 14, 10, 1873; 2013 RD_{156} ∗, 13, 8, 1508; 2013 RE_{156} ∗, 14, 11, 1847; 2013 RF_{156} ∗, 9, 8, 1835; 2013 RG_{156} ∗, 9, 8, 1835; 2013 RH_{156} ∗, 12, 9, 1828; 2013 RO_{156} ∗, 15, 11, 1886; 2013 RP_{156} ∗, 11, 9, 1110; 2013 RQ_{156} ∗, 30, 19, 1886; 2013 RR_{156} ∗, 17, 10, 1183; 2013 RS_{156} ∗, 18, 12, 1904; 2013 RT_{156} ∗, 21, 16, 1904; 2013 RU_{156} ∗, 17, 10, 1905; 2013 RV_{156} ∗, 15, 9, 1828; 2013 RW_{156} ∗, 8, 8, 1833; 2013 RX_{156} ∗, 15, 9, 1833; 2013 RY_{156} ∗, 12, 10, 1903; 2013 RZ_{156} ∗, 11, 8, 1856; 2013 RA_{157} ∗, 24, 16, 1909; 2013 RB_{157} ∗, 10, 8, 1469; 2013 RC_{157} ∗, 17, 14, 1884; 2013 RD_{157} ∗, 23, 18, 1904; 2013 RE_{157} ∗, 10, 8, 1894; 2013 RF_{157} ∗, 10, 9, 1884; 2013 RG_{157} ∗, 15, 11, 1442; 2013 RH_{157} ∗, 12, 7, 1447; 2013 RJ_{157} ∗, 22, 14, 1864; 2013 RK_{157} ∗, 10, 9, 1907; 2013 RL_{157} ∗, 12, 9, 432; 2013 RM_{157} ∗, 27, 17, 1827; 2013 RO_{157} ∗, 16, 13, 1578; 2013 RP_{157} ∗, 16, 14, 1905; 2013 RQ_{157} ∗, 10, 7, 1502; 2013 RR_{157} ∗, 14, 10, 1902; 2013 RS_{157} ∗, 19, 14, 1826; 2013 RT_{157} ∗, 12, 8, 1519; 2013 RU_{157} ∗, 21, 10, 1474; 2013 RV_{157} ∗, 10, 8, 1832; 2013 RW_{157} ∗, 13, 11, 1832; 2013 RX_{157} ∗, 17, 10, 1836; 2013 RY_{157} ∗, 23, 15, 1885; 2013 RA_{158} ∗, 15, 10, 1832; 2013 RB_{158} ∗, 13, 11, 1502; 2013 RC_{158} ∗, 13, 9, 1445; 2013 RD_{158} ∗, 15, 13, 1823; 2013 RE_{158} ∗, 7, 7, 1499; 2013 RF_{158} ∗, 10, 7, 1142; 2013 RG_{158} ∗, 18, 11, 1830; 2013 SZ_{99}, 11, 8, 1771; 2013 SL_{100}, 13, 8, 1134; 2013 SG_{102}, 25, 16, 1840; 2013 SH_{102}, 22, 15, 1844; 2013 SJ_{102}, 31, 19, 1838; 2013 SK_{102}, 29, 20, 1886; 2013 SL_{102}, 39, 27, 1865; 2013 SM_{102}, 31, 22, 1873; 2013 SN_{102}, 24, 15, 1845; 2013 SO_{102}, 28, 23, 1848; 2013 SP_{102}, 35, 24, 1808; 2013 SQ_{102}, 25, 18, 1848; 2013 SR_{102}, 23, 14, 1825; 2013 SS_{102}, 26, 15, 1904; 2013 SD_{106}, 25, 14, 1490; 2013 SE_{106}, 22, 14, 1805; 2013 SF_{106}, 33, 22, 1888; 2013 SG_{106}, 16, 9, 1867; 2013 SH_{106}, 23, 15, 1864; 2013 SJ_{106}, 29, 20, 1819; 2013 SK_{106}, 21, 11, 1155; 2013 SM_{106}, 13, 9, 412; 2013 SN_{106}, 17, 10, 1835; 2013 SY_{111} ∗, 11, 7, 1869; 2013 SZ_{111} ∗, 14, 10, 412; 2013 SA_{112} ∗, 11, 7, 1885; 2013 SB_{112} ∗, 14, 9, 1460; 2013 SC_{112} ∗, 21, 14, 1885; 2013 SD_{112} ∗, 16, 11, 1846; 2013 SE_{112} ∗, 13, 8, 1475; 2013 SF_{112} ∗, 16, 10, 1508; 2013 SG_{112} ∗, 8, 7, 1806; 2013 SH_{112} ∗, 12, 9, 1484; 2013 SJ_{112} ∗, 13, 10, 1484; 2013 SK_{112} ∗, 13, 8, 1845; 2013 SL_{112} ∗, 16, 11, 1429; 2013 SM_{112} ∗, 12, 8, 1811; 2013 SN_{112} ∗, 15, 11, 1126; 2013 SO_{112} ∗, 9, 8, 1507; 2013 SP_{112} ∗, 8, 7, 1458; 2013 SQ_{112} ∗, 10, 8, 1813; 2013 SR_{112} ∗, 7, 7, 1810; 2013 SS_{112} ∗, 11, 8, 1813; 2013 ST_{112} ∗, 15, 10, 1865; 2013 SU_{112} ∗, 11, 8, 1500; 2013 SV_{112} ∗, 19, 14, 1810; 2013 SW_{112} ∗, 16, 13, 1864; 2013 SX_{112} ∗, 13, 10, 1865; 2013 SY_{112} ∗, 8, 7, 768; 2013 SZ_{112} ∗, 13, 9, 1806; 2013 SA_{113} ∗, 9, 7, 1458; 2013 SB_{113} ∗, 10, 8, 1866; 2013 SC_{113} ∗, 12, 10, 1844; 2013 SD_{113} ∗, 22, 12, 1884; 2013 SE_{113} ∗, 23, 17, 1884; 2013 SF_{113} ∗, 11, 8, 1884; 2013 TM_{159}, 31, 25, 1806; 2013 TX_{171}, 22, 16, 1905; 2013 TY_{171}, 33, 25, 1860; 2013 TZ_{171}, 25, 18, 1861; 2013 TA_{172}, 24, 16, 1831; 2013 TB_{172}, 25, 18, 1831; 2013 TD_{172}, 18, 12, 407; 2013 TE_{172}, 27, 20, 1842; 2013 TF_{172}, 27, 15, 1863; 2013 TG_{172}, 14, 10, 1167; 2013 TH_{172}, 22, 17, 1796; 2013 TJ_{172}, 28, 23, 1883; 2013 TK_{172}, 23, 19, 1868; 2013 TL_{172}, 24, 13, 1823; 2013 TM_{172}, 19, 14, 1870; 2013 TB_{187}, 22, 12, 1876; 2013 TC_{187}, 17, 10, 1831; 2013 TD_{187}, 25, 17, 1912; 2013 TE_{187}, 20, 12, 1442; 2013 TF_{187}, 22, 12, 1838; 2013 TG_{187}, 15, 12, 1800; 2013 TH_{187}, 24, 13, 1429; 2013 TJ_{187}, 24, 15, 1912; 2013 TK_{187}, 20, 12, 1425; 2013 TL_{187}, 15, 10, 1129; 2013 TM_{187}, 18, 13, 1440; 2013 TN_{187}, 19, 13, 1153; 2013 TO_{187}, 20, 11, 1125; 2013 TP_{187}, 18, 13, 1543; 2013 TQ_{187}, 29, 20, 1843; 2013 TR_{187}, 19, 14, 1884; 2013 TS_{187}, 16, 10, 1823; 2013 TT_{187}, 25, 16, 1843; 2013 TU_{187}, 27, 19, 1904; 2013 TV_{187}, 24, 16, 1833; 2013 TW_{187}, 14, 10, 1140; 2013 TX_{187}, 21, 14, 1886; 2013 TY_{187}, 32, 22, 1833; 2013 TZ_{187}, 19, 15, 1883; 2013 TA_{188}, 28, 18, 1850; 2013 TB_{188}, 35, 16, 1511; 2013 TC_{188}, 20, 14, 1885; 2013 TD_{188}, 18, 12, 1831; 2013 TE_{188}, 27, 20, 1883; 2013 TF_{188}, 16, 11, 1470; 2013 TK_{227} ∗, 11, 9, 1531; 2013 TL_{227} ∗, 8, 8, 1543; 2013 TM_{227} ∗, 9, 7, 1149; 2013 TN_{227} ∗, 21, 14, 1804; 2013 TO_{227} ∗, 17, 10, 1804; 2013 TP_{227} ∗, 17, 13, 1869; 2013 TQ_{227} ∗, 18, 13, 1882; 2013 TR_{227} ∗, 15, 12, 1883; 2013 TS_{227} ∗, 11, 10, 1883; 2013 TT_{227} ∗, 11, 9, 1149; 2013 TU_{227} ∗, 21, 15, 1841; 2013 TV_{227} ∗, 23, 18, 1880; 2013 TW_{227} ∗, 15, 10, 1803; 2013 TX_{227} ∗, 17, 12, 1883; 2013 TY_{227} ∗, 17, 12, 1803; 2013 TZ_{227} ∗, 13, 12, 1880; 2013 TA_{228} ∗, 18, 15, 1881; 2013 TB_{228} ∗, 21, 12, 1803; 2013 TC_{228} ∗, 11, 9, 1801; 2013 TD_{228} ∗, 18, 14, 1882; 2013 TE_{228} ∗, 12, 9, 1879; 2013 TF_{228} ∗, 12, 9, 1489; 2013 TG_{228} ∗, 13, 11, 1554; 2013 TH_{228} ∗, 16, 13, 1869; 2013 TJ_{228} ∗, 8, 7, 1802; 2013 TK_{228} ∗, 13, 8, 1471; 2013 TL_{228} ∗, 18, 11, 1852; 2013 TM_{228} ∗, 15, 13, 1800; 2013 TN_{228} ∗, 21, 15, 1870; 2013 TO_{228} ∗, 15, 10, 1870; 2013 TP_{228} ∗, 19, 11, 1488; 2013 TQ_{228} ∗, 10, 8, 1870; 2013 TR_{228} ∗, 17, 14, 1823; 2013 TS_{228} ∗, 21, 15, 1870; 2013 TT_{228} ∗, 10, 8, 1823; 2013 TU_{228} ∗, 11, 9, 1792; 2013 TV_{228} ∗, 9, 6, 1870; 2013 TW_{228} ∗, 15, 10, 1831; 2013 TX_{228} ∗, 10, 8, 1792; 2013 TY_{228} ∗, 9, 7, 1436; 2013 TZ_{228} ∗, 9, 7, 1468; 2013 TA_{229} ∗, 12, 9, 1850; 2013 TB_{229} ∗, 19, 13, 1415; 2013 TC_{229} ∗, 10, 9, 1831; 2013 TD_{229} ∗, 15, 10, 1794; 2013 TE_{229} ∗, 10, 8, 1432; 2013 TF_{229} ∗, 13, 8, 401; 2013 TG_{229} ∗, 16, 12, 1432; 2013 TH_{229} ∗, 12, 9, 1432; 2013 TJ_{229} ∗, 17, 12, 1442; 2013 UK_{15}, 12, 9, 1445; 2013 UQ_{15}, 23, 13, 1754; 2013 UM_{17}, 8, 8, 1055; 2013 UT_{22}, 29, 20, 1464; 2013 UE_{31}, 25, 18, 1453; 2013 UF_{31}, 28, 20, 1905; 2013 UL_{49} ∗, 17, 12, 1826; 2013 VQ_{25}, 35, 22, 1566; 2013 VZ_{31}, 24, 13, 1808; 2013 VK_{46}, 20, 15, 1436; 2013 VL_{46}, 24, 18, 1871; 2013 VM_{46}, 22, 12, 1872; 2013 VN_{46}, 26, 14, 1488; 2013 VO_{46}, 20, 12, 1849; 2013 VP_{46}, 21, 12, 1519; 2013 VR_{46}, 19, 15, 1504; 2013 VS_{46}, 23, 19, 1857; 2013 VN_{71} ∗, 13, 9, 1771; 2013 VO_{71} ∗, 8, 7, 1106; 2013 VP_{71} ∗, 12, 9, 1768; 2013 VQ_{71} ∗, 12, 9, 1086; 2013 VR_{71} ∗, 9, 7, 1037; 2013 VS_{71} ∗, 9, 7, 767; 2013 VT_{71} ∗, 18, 11, 1143; 2013 VU_{71} ∗, 12, 10, 1849; 2013 VV_{71} ∗, 14, 12, 1449; 2013 WG_{114}, 27, 19, 1888; 2013 WH_{123}, 25, 17, 1856; 2013 WJ_{123}, 8, 7, 755; 2013 WK_{123}, 12, 8, 396; 2013 WA_{139} ∗, 25, 15, 1830; 2013 WB_{139} ∗, 15, 10, 1783; 2013 WC_{139} ∗, 15, 9, 1783; 2013 XU_{33}, 23, 21, 1824; 2013 XL_{40} ∗, 12, 8, 1116; 2013 XM_{40} ∗, 7, 7, 1825; 2013 YD_{169} ∗, 19, 14, 1376; 2014 LQ_{28}, 18, 11, 849; 2014 NB_{66}, 18, 10, 1835; 2014 OD_{394}, 25, 15, 1872; 2014 OM_{394}, 12, 10, 1544; 2014 OQ_{394}, 34, 20, 1865; 2014 OR_{394}, 23, 14, 1543; 2014 PM_{82}, 31, 18, 1456; 2014 QO_{441}, 18, 12, 1568; 2014 QR_{441}, 28, 23, 1904; 2014 QU_{441}, 17, 15, 1528; 2014 QC_{442}, 14, 11, 1132; 2014 QE_{442}, 15, 11, 1135; 2014 QF_{442}, 29, 19, 1491; 2014 QG_{442}, 18, 10, 501; 2014 QT_{495}, 25, 15, 1557; 2014 QU_{495}, 27, 20, 1883; 2014 QV_{495}, 18, 12, 1550; 2014 QW_{495}, 19, 15, 1871; 2014 QS_{510},

23, 13, 1829; 2014 QT_{510}, 25, 17, 1532; 2014 QU_{510}, 24, 16, 1557; 2014 QV_{510}, 19, 13, 1541; 2014 QW_{510}, 26, 19, 1523; 2014 QX_{510}, 29, 20, 1903; 2014 QY_{510}, 33, 22, 1549; 2014 QZ_{510}, 42, 27, 1483; 2014 QF_{562} *, 10, 7, 1120; 2014 QG_{562} *, 18, 10, 1775; 2014 QH_{562} *, 16, 10, 1491; 2014 QJ_{562} *, 13, 12, 786; 2014 QK_{562} *, 9, 8, 1100; 2014 QL_{562} *, 13, 10, 1488; 2014 QM_{562} *, 12, 10, 1491; 2014 QP_{562} *, 16, 11, 1549; 2014 QQ_{562} *, 23, 13, 1563; 2014 QR_{562} *, 25, 11, 1549; 2014 QS_{562} *, 11, 10, 1214; 2014 QT_{562} *, 22, 15, 1566; 2014 QU_{562} *, 16, 10, 1213; 2014 QV_{562} *, 19, 12, 1239; 2014 QW_{562} *, 14, 12, 1564; 2014 QX_{562} *, 15, 15, 1549; 2014 QY_{562} *, 18, 16, 1566; 2014 QZ_{562} *, 13, 8, 1093; 2014 RH_{70}, 25, 18, 1472; 2014 RJ_{70}, 20, 15, 1518; 2014 RL_{74}, 25, 16, 1177; 2014 RM_{74}, 25, 19, 1551; 2014 RN_{74}, 27, 20, 848; 2014 RO_{74}, 26, 18, 1507; 2014 RK_{86} *, 15, 10, 1812; 2014 RL_{86} *, 25, 13, 1446; 2014 RM_{86} *, 14, 9, 1463; 2014 RO_{86} *, 13, 11, 1525; 2014 RP_{86} *, 12, 9, 1142; 2014 RQ_{86} *, 9, 7, 1135; 2014 RR_{86} *, 8, 7, 1144; 2014 RS_{86} *, 13, 10, 1526; 2014 RT_{86} *, 12, 10, 1231; 2014 RU_{86} *, 22, 12, 1551; 2014 RV_{86} *, 7, 7, 1507; 2014 RW_{86} *, 17, 11, 1191; 2014 RX_{86} *, 17, 13, 1181; 2014 RY_{86} *, 13, 8, 1464; 2014 SN_{350}, 30, 20, 1512; 2014 SO_{350}, 33, 20, 1507; 2014 SQ_{350}, 15, 13, 1452; 2014 SR_{350}, 28, 18, 1154; 2014 SN_{363}, 18, 12, 1495; 2014 SP_{363}, 30, 18, 1430; 2014 SM_{373}, 27, 18, 1524; 2014 SN_{373}, 19, 11, 1231; 2014 SO_{373}, 25, 17, 1487; 2014 SP_{373}, 29, 22, 1527; 2014 SQ_{373}, 23, 14, 1234; 2014 SR_{373}, 16, 12, 1520; 2014 SS_{373}, 37, 23, 1508; 2014 ST_{373}, 32, 20, 1550; 2014 SU_{373}, 25, 17, 1524; 2014 SV_{373}, 15, 8, 812; 2014 SW_{373}, 31, 21, 1526; 2014 SX_{373}, 19, 13, 1520; 2014 SY_{373}, 22, 17, 1824; 2014 SZ_{373}, 28, 21, 1539; 2014 SA_{374}, 29, 20, 1492; 2014 SB_{374}, 22, 15, 1471; 2014 SC_{374}, 18, 14, 1512; 2014 SD_{403} *, 8, 7, 1503; 2014 SL_{403} *, 11, 9, 1846; 2014 SN_{403} *, 18, 14, 1236; 2014 TB_{86}, 38, 25, 1906; 2014 TE_{86}, 21, 15, 1505; 2014 TF_{86}, 39, 22, 1498; 2014 TL_{95}, 24, 18, 1483; 2014 TM_{95}, 34, 25, 1882; 2014 TS_{100}, 26, 18, 1170; 2014 TT_{100}, 16, 12, 1164; 2014 TY_{114} *, 13, 12, 1856; 2014 TZ_{114} *, 22, 13, 1827; 2014 TA_{115} *, 11, 8, 1150; 2014 TC_{115} *, 11, 11, 1881; 2014 TD_{115} *, 19, 11, 1873; 2014 TE_{115} *, 10, 8, 1875; 2014 TF_{115} *, 10, 8, 1047; 2014 TG_{115} *, 14, 12, 1873; 2014 TH_{115} *, 10, 7, 1093; 2014 TJ_{115} *, 7, 7, 1383; 2014 TK_{115} *, 19, 10, 1793; 2014 TL_{115} *, 9, 7, 725; 2014 UF_{224}, 8, 7, 1519; 2014 UZ_{224}, 33, 19, 1549; 2014 UA_{225}, 17, 10, 755; 2014 UC_{225}, 13, 9, 756; 2014 UN_{225}, 28, 18, 1517; 2014 UU_{240}, 23, 15, 1150; 2014 UD_{241}, 28, 18, 1806; 2014 UE_{241}, 27, 19, 1872; 2014 UF_{241}, 24, 15, 1754; 2014 UN_{250}, 17, 12, 1458; 2014 UO_{250}, 23, 13, 1519; 2014 UP_{250}, 20, 10, 1090; 2014 UQ_{250}, 20, 14, 1145; 2014 UW_{276} *, 11, 9, 1861; 2014 UX_{276} *, 17, 13, 1445; 2014 UY_{276} *, 9, 8, 1529; 2014 UZ_{276} *, 10, 7, 715; 2014 UA_{277} *, 19, 14, 1782; 2014 UB_{277} *, 17, 13, 1790; 2014 VW_{37}, 39, 25, 1475; 2014 VV_{39}, 31, 19, 1863; 2014 VB_{41}, 28, 16, 1834; 2014 VC_{41}, 34, 25, 1483; 2014 VK_{43} *, 14, 8, 1840; 2014 VL_{43} *, 17, 11, 1831; 2014 VM_{43} *, 17, 12, 1871; 2014 VN_{43} *, 12, 11, 1802; 2014 WD_{536}, 31, 21, 1907; 2014 WY_{555}, 22, 14, 1462; 2014 WZ_{555}, 26, 18, 1461; 2014 WA_{556}, 32, 23, 1456; 2014 WB_{556}, 15, 11, 1473; 2014 WC_{556}, 19, 11, 1104; 2014 WD_{556}, 25, 18, 1469; 2014 WE_{556}, 24, 16, 1535; 2014 XY_{40}, 34, 23, 1446; 2014 XZ_{40}, 13, 9, 787; 2014 XW_{47}, 25, 18, 1367; 2014 XX_{47}, 21, 14, 1449; 2014 XY_{47}, 30, 22, 1449; 2014 XZ_{47}, 32, 21, 1436; 2014 XA_{48}, 28, 21, 1452; 2014 XB_{48}, 25, 15, 1472; 2014 XC_{48}, 36, 21, 1435; 2014 YL_{50}, 22, 14, 1430; 2014 YR_{72}, 22, 12, 1381; 2014 YS_{72}, 27, 15, 1372; 2014 YT_{72}, 27, 21, 1444; 2014 YU_{72}, 19, 11, 1363; 2014 YW_{91} *, 19, 14, 1531; 2014 YX_{91} *, 10, 7, 1509; 2015 AS_{293}, 23, 18, 1420; 2015 BP_{519}, 34, 25, 1760; 2015 PD_{312}, 18, 14, 1886; 2015 PF_{312}, 26, 23, 1859; 2015 PL_{312}, 10, 9, 1523; 2015 RT_{245}, 27, 15, 1509; 2015 RG_{277}, 16, 9, 1485; 2015 RN_{278}, 9, 7, 1483; 2015 RB_{280}, 8, 7, 1092; 2015 TL_{361}, 20, 15, 1881; 2015 TW_{361}, 23, 16, 1441; 2015 TP_{362}, 32, 22, 1914; 2015 TJ_{363}, 32, 24, 1842; 2015 TK_{363}, 28, 20, 1904; 2015 TS_{363}, 13, 9, 1884; 2015 UK_{84}, 35, 21, 1519; 2015 VJ_{181}, 26, 16, 1432; 2016 PN_{219} *, 17, 10, 1902; 2016 PU_{219} *, 8, 8, 1768; 2016 QP_{85}, 10, 9, 1155; 2016 QU_{89}, 21, 15, 1565; 2016 QV_{89}, 27, 21, 1859; 2016 QZ_{133} *, 13, 10, 1872; 2016 QL_{134} *, 9, 9, 1875; 2016 QM_{134} *, 11, 8, 1432; 2016 QN_{134} *, 17, 11, 1831; 2016 QO_{134} *, 11, 8, 1410; 2016 QP_{134} *, 18, 12, 1561; 2016 RU_{81} *, 8, 7, 1829; 2016 RV_{81} *, 16, 11, 1846; 2016 RX_{81} *, 11, 9, 1840; 2016 RA_{82} *, 12, 7, 1091; 2016 RD_{82} *, 10, 8, 1563; 2016 SQ_{55}, 23, 15, 1526; 2016 SS_{55}, 30, 21, 1885; 2016 SU_{55}, 17, 13, 1862; 2016 SA_{56}, 31, 23, 1791; 2016 SB_{56} *, 11, 9, 1208; 2016 SE_{56}, 24, 20, 1869; 2016 SN_{56} *, 21, 12, 1550; 2016 SP_{56}, 28, 21, 1844; 2016 SY_{56}, 36, 17, 1885; 2016 SJ_{57}, 30, 19, 1844; 2016 SU_{57}, 34, 21, 1849; 2016 SW_{57}, 16, 15, 1849; 2016 SE_{58} *, 12, 9, 1235; 2016 SG_{58}, 41, 26, 1885; 2016 SJ_{58} *, 14, 11, 1565; 2016 SQ_{58}, 31, 21, 1846; 2016 SV_{58}, 31, 21, 1870; 2016 SA_{59}, 14, 11, 1565; 2016 SJ_{105} *, 10, 10, 1908; 2016 SR_{105} *, 10, 8, 1545; 2016 TS_{94}, 28, 15, 1402; 2016 TT_{94}, 24, 18, 1423; 2016 TY_{94}, 28, 21, 1524; 2016 UL_{273} *, 9, 7, 1368; 2017 QQ_{131} *, 9, 7, 1811; 2017 QU_{131} *, 8, 7, 1852; 2017 SE_{277} *, 8, 7, 1817; (119956), 30, 20, 1911; (120348), 22, 14, 1070; (134210), 18, 11, 1526; (136199), 32, 26, 1836; (137295), 30, 18, 1145; (139775), 14, 10, 421; (145452), 24, 19, 1921; (145474), 28, 19, 1553; (145480), 38, 28, 1852; (160091), 25, 16, 1846; (160256), 22, 16, 1887; (303775), 21, 17, 1878; (307616), 20, 12, 756; (309239), 38, 29, 1893; (385191), 14, 11, 1912; (385201), 23, 15, 1480; (437360), 28, 21, 1549; (451657), 20, 13, 1590; (469372), 28, 18, 1893; (469750), 39, 27, 1845; (471954), 20, 16, 1535; (472262), 19, 13, 1911; (480017), 24, 17, 1144; (483002), 26, 18, 1490; (491767), 21, 16, 1578; (491768), 9, 9, 1191; (495189), 24, 16, 1860; (495190), 34, 21, 1543; (495297), 30, 21, 1866; (501581), 16, 12, 1522; (503883), 15, 10, 817; (504555), 34, 25, 1882; (505412), 29, 25, 1859; (505447), 28, 14, 1838; (505448), 35, 18, 1511; (508338), 17, 12, 444; (523640), 26, 16, 1464; (523643), 36, 25, 1524; (523736), 32, 19, 1467; (530664), 30, 22, 1865; (534073), 23, 17, 1536; *[11915, 601, 242*, 2013/08/16–2018/12/12]*

W85 Cerro Tololo-LCO A

Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto, J. D. Armstrong, J. O. Teagarden, E. J. Guarin, T. Santana-Ros, L. Conversi, M. Micheli, P. Breitenstein. Measurers T. Lister, W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache, J. D. Armstrong, J. O. Teagarden, E. J. Guarin, M. Micheli, P. Breitenstein. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD, 1.0-m Ritchey-Chrétien + CCD.

1991 TF_3, 3, 1, 0; 2006 TQ_1, 6, 1, 0; 2009 HA_{121}, 6, 1, 0; 2015 BL_{510}, 6, 1, 0; 2020 HA_{120}, 3, 1, 0; 2021 PH_{27}, 5, 2, 1; 2021 QD_2, 2, 1, 0; 2021 QJ_5, 4, 1, 0; 2021 QK_5, 3, 1, 0; (110520), 4, 1, 0; (255140), 6, 1, 0; (433505), 6, 1, 0; (475532), 6, 1, 0; (573671), 6, 1, 0; *[66, 14, 0*, 2021/07/08–2021/09/11]*

W86 Cerro Tololo-LCO B

Observers J. D. Armstrong, E. J. Guarin, L. Buzzi, T. Vorobjov, S. Foglia, P. Miller, T. Lister, W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto, J. Chatelain, E. Gomez, S. Greenstreet. Measurers J. D. Armstrong, E. J. Guarin, T. Lister, W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache. 1.0-m $f/8$ Ritchey-Chrétien + CCD, 1.0-m $f/8.0$ Ritchey-Chrétien + CCD.

2007 AT_{37}, 6, 1, 0; 2017 MG_{22}, 5, 1, 0; 2017 RN_{136}, 3, 1, 0; 2020 HY_{13}, 5, 1, 0; 2021 PJ_1, 6, 1, 0; 2021 PO_{41} *, 6, 1, 0; 2021 QA_4, 4, 1, 0; 2021 RT_{19}, 4, 1, 0; (413577), 4, 1, 0; (576157), 6, 1, 0; *[49, 10, 1*, 2013/10/14–2021/09/14]*

W87 Cerro Tololo-LCO C

Observers M. Kelley, C. Holt, M. Schwamb, M. Dobson, T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, J. D. Armstrong, W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto, M. Altmann, T. Santana-Ros, L. Conversi, M. Micheli. Measurers T. Lister, J. D. Armstrong, W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache, F. Spoto, M. Micheli. 1.0-m $f/8.0$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD.

2008 SN_{315}, 4, 1, 0; 2009 LE_8, 3, 1, 0; 2010 MB_{47}, 3, 1, 0; 2011 GY_{14}, 4, 1, 0; 2011 UC_{292}, 6, 1, 0; 2017 UB_{117}, 6, 1, 0; 2019 AE_{86}, 3, 1, 0; 2021 MB_1, 4, 1, 0; 2021 NY_1, 3, 1, 0; 2021 PH_{27}, 2, 1, 0; 2021 RY_{14}, 4, 1, 0; (2060), 4, 1, 0; (24531), 4, 1, 0; (34184), 4, 1, 0; (100420), 6, 1, 0; (169977), 6, 1, 0; (204853), 6, 1, 0; (231683), 4, 1, 0; (250601), 6, 1, 0; (315344), 6, 1, 0; (319695), 6, 1, 0; (353341), 6, 1, 0; (366807), 4, 1, 0; (507302), 4, 1, 0; (529892), 3, 1, 0; *[111, 25, 0*, 2019/02/09–2021/09/14]*

W88 Slooh.com Chile Observatory, La Dehesa

Observer M. Kumrucu-Lohmiller. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (05)

Observer W. F. Cashwell. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (10)

Observer M. Suzuki. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (12)

Observer R. W. Anderson. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD. (16)

Observer E. Cortes. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.35-m $f/11.0$ Schmidt-Cassegrain + CCD. (23)

{10} 2021 PR_2, 3, 1, 0; 2021 PB_9, 2, 1, 0; *[5, 2, 0*, 2021/08/13–2021/08/31]*

{12} 2021 RA, 5, 1, 0; 2021 RX_5, 3, 1, 0; *[8, 2, 0*, 2021/09/03–2021/09/09]*

{16} 1991 TF_3, 5, 1, 0; *[5, 1, 0*, 2021/09/18]*

{23} 2016 AJ_{193}, 4, 1, 0; 2021 NU_1, 2, 1, 0; 2021 RK_{14}, 2, 1, 0; *[8, 3, 0*, 2021/08/11–2021/09/15]*

{5} 2017 AP_{20}, 3, 1, 0; 2021 JH_2, 5, 1, 0; 2021 PN_{26}, 5, 2, 2; 2021 PO_{41}, 6, 2, 1; *[19, 4, 0*, 2021/08/11–2021/09/10]*

W92 MASTER-OAFA Observatory, San Juan

Observers S. Bodrov, V. Lipunov, Y. Kechin, E. Gorbovskoy, N. Tiurina, P. Balanutsa, A. Kuznetsov, I. Gorbunov, F. Balakin, D. Zimnukhov, V. Kornilov, R. Podesta, F. Podesta, H. Levato. 0.4-m $f/2.5$ reflector + CCD.

2001 PO_{13}, 2, 1, 0; 2005 TB_{173}, 2, 1, 0; 2008 SS_{68}, 2, 1, 0; 2021 JF_{52}, 2, 1, 0; 2021 MO_1, 2, 1, 0; (17), 3, 1, 0; (31), 2, 1, 0; (32), 2, 1, 0; (35), 5, 2, 23; (40), 4, 1, 0; (58), 4, 2, 6; (64), 2, 1, 0; (90), 3, 1, 0; (99), 2, 1, 0; (120), 4, 2, 1; (127), 3, 1, 0; (131), 2, 1, 0; (136), 3, 1, 0; (139), 2, 1, 0; (160), 2, 1, 0; (167), 2, 1, 0; (191), 2, 1, 0; (192), 2, 1, 0; (194), 5, 1, 0; (198), 2, 1, 0; (199), 3, 1, 0; (210), 6, 2, 1; (218), 3, 1, 0; (227), 2, 1, 0; (241), 2, 1, 0; (263), 3, 1, 0; (295), 2, 1, 0; (316), 3, 1, 0; (325), 5, 2, 1; (349), 2, 1, 0; (359), 3, 1, 0; (363), 3, 1, 0; (385), 6, 2, 1; (388), 6, 3, 23; (391), 6, 2, 5; (394), 4, 1, 0; (407), 6, 2, 3; (490), 3, 1, 0; (551), 5, 1, 0; (557), 6, 3, 9; (560), 6, 2, 9; (567), 3, 1, 0; (568), 4, 2, 1; (583), 3, 1, 0; (602), 2, 1, 0; (606), 2, 1, 0; (615), 3, 1, 0; (632), 2, 1, 0; (639), 8, 2, 22; (649), 8, 3, 25; (666), 3, 1, 0; (669), 2, 1, 0; (672), 2, 1, 0; (695), 2, 1, 0; (696), 3, 1, 0; (727), 4, 2, 5; (732), 8, 2, 3; (750), 8, 3, 9; (766), 3, 1, 0; (782), 4, 2, 15; (798), 2, 1, 0; (814), 2, 1, 0; (832), 2, 1, 0; (841), 6, 2, 22; (860), 2, 1, 0; (868), 2, 1, 0; (875), 2, 1, 0; (877), 2, 1, 0; (884), 3, 1, 0; (896), 3, 1, 0; (899), 2, 1, 0; (918), 6, 2, 1; (920), 8, 3, 22; (950), 9, 3, 22; (954), 2, 1, 0; (973), 4, 1, 0; (994), 2, 1, 0; (1002), 21, 4, 25; (1003), 4, 1, 0; (1004), 3, 1, 0; (1048), 4, 1, 0; (1049), 2, 1, 0; (1078), 4, 2, 5; (1080), 2, 1, 0; (1087), 2, 1, 0; (1105), 8, 3, 15; (1112), 3, 1, 0; (1144), 3, 1, 0; (1145), 6, 2, 22; (1153), 6, 2, 1; (1180), 8, 1, 0; (1190), 3, 1, 0; (1231), 2, 1, 0; (1236), 2, 1, 0; (1239), 8, 3, 9; (1253), 2, 1, 0; (1266), 3, 1, 0; (1273), 3, 1, 0; (1296), 6, 1, 0; (1310), 2, 1, 0; (1323), 6, 3, 24; (1324), 2, 1, 0; (1332), 3, 1, 0; (1335), 2, 1, 0; (1338), 2, 1, 0; (1340), 6, 1, 0; (1358), 2, 1, 0; (1378), 2, 1, 0; (1408), 3, 1, 0; (1411), 2, 1, 0; (1443), 4, 2, 9; (1457), 2, 1, 0; (1485), 2, 1, 0; (1488), 6, 3, 15; (1506), 6, 1, 0; (1508), 4, 1, 0; 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W94 MAP, San Pedro de Atacama

Observers A. Maury, G. Attard. Measurers A. Maury, G. Attard, D. Parrott. 0.28-m $f/2.2$ Schmidt + CCD.

1999 TM_{216}, 3, 1, 0; 1999 TP_{341}, 3, 1, 0; 2000 SD_{382}, 3, 1, 0; 2000 WZ, 3, 1, 0; 2000 WH_{29}, 3, 1, 0; 2000 WC_{79}, 3, 1, 0; 2001 DX_{109}, 3, 1, 0; 2001 SX_{356}, 3, 1, 0; 2002 AO_{21}, 3, 1, 0; 2002 CV_{318}, 3, 1, 0; 2002 JQ_9, 3, 1, 0; 2002 TG_{109}, 3, 1, 0; 2002 TX_{114}, 3, 1, 0; 2003 UV_{387}, 3, 1, 0; 2004 OY_{15}, 3, 1, 0; 2004 PW_{118}, 3, 1, 0; 2004 QS_8, 6, 1, 0; 2004 RW_{72}, 3, 1, 0; 2004 TP_{14}, 3, 1, 0; 2004 XY_{32}, 3, 1, 0; 2005 RO_{33}, 3, 1, 0; 2005 SJ_{122}, 3, 1, 0; 2005 SW_{296}, 3, 1, 0; 2005 UM_{312}, 3, 1, 0; 2005 UN_{416}, 3, 1, 0; 2005 WJ_{108}, 3, 1, 0; 2005 YN_{136}, 3, 1, 0; 2005 YO_{270}, 3, 1, 0; 2006 AM_{41}, 3, 1, 0; 2006 MK_{15}, 3, 1, 0; 2006 QB_{24}, 3, 1, 0; 2006 YW_{13}, 18, 1, 0; 2007 FW, 3, 1, 0; 2007 RZ_{175}, 3, 1, 0; 2007 TN_{184}, 3, 1, 0; 2008 GR_{151}, 3, 1, 0; 2008 NF, 3, 1, 0; 2008 QB_{49}, 3, 1, 0; 2008 SX_{148}, 3, 1, 0; 2008 TW, 3, 1, 0; 2008 UH_{46}, 3, 1, 0; 2008 XO_{60}, 3, 1, 0; 2009 HK_{90}, 9, 1, 0; 2009 HR_{124}, 3, 1, 0; 2009 RP_{18}, 3, 1, 0; 2009 WR_{21}, 21, 1, 0; 2010 GZ_{65}, 3, 1, 0; 2010 JJ_{37}, 3, 1, 0; 2010 JD_{138}, 3, 1, 0; 2010 JO_{144}, 3, 1, 0; 2010 KE_{27}, 3, 1, 0; 2010 LU_{65}, 3, 1, 0; 2010 LK_{76}, 3, 1, 0; 2010 LE_{150}, 3, 1, 0; 2010 MN_{22}, 3, 1, 0; 2010 MJ_{25}, 3, 1, 0; 2010 MA_{50}, 3, 1, 0; 2010 MT_{62}, 3, 1, 0; 2010 MW_{71}, 3, 1, 0; 2010 MX_{95}, 3, 1, 0; 2010 NJ_{97}, 3, 1, 0; 2010 OK_1, 3, 1, 0; 2010 OK_{29}, 3, 1, 0; 2010 TG_{44}, 3, 1, 0; 2010 TM_{83}, 3, 1, 0; 2010 UL_{96}, 3, 1, 0; 2011 EF_{91}, 3, 1, 0; 2011 FS_{126}, 3, 1, 0; 2011 GT_{25}, 3, 1, 0; 2011 SJ_{118}, 3, 1, 0; 2011 SX_{127}, 3, 1, 0; 2011 SA_{151}, 3, 1, 0; 2011 TM_8, 3, 1, 0; 2011 YS_{88}, 3, 1, 0; 2012 AG_{30}, 3, 1, 0; 2012 BH_{163}, 3, 1, 0; 2012 BG_{164}, 3, 1, 0; 2012 EA_{22}, 3, 1, 0; 2012 JG_{42}, 3, 1, 0; 2012 QS_{56}, 3, 1, 0; 2012 TB_{162}, 6, 1, 0; 2012 VV_{129}, 3, 1, 0; 2013 EN_{41}, 6, 1, 0; 2013 HY_{137}, 3, 1, 0; 2013 RN_{145}, 3, 1, 0; 2013 SA_{24}, 3, 1, 0; 2013 TM_4, 3, 1, 0; 2013 WL_{114}, 3, 1, 0; 2013 YJ_{92}, 3, 1, 0; 2014 AN_{39}, 3, 1, 0; 2014 GE_6, 3, 1, 0; 2014 HW_{44}, 3, 1, 0; 2014 JZ_{31}, 3, 1, 0; 2014 JG_{79}, 3, 1, 0; 2014 KE_{42}, 3, 1, 0; 2014 KA_{114}, 3, 1, 0; 2014 ND, 3, 1, 0; 2014 NS_6, 3, 1, 0; 2014 OA_{112}, 3, 1, 0; 2014 OC_{418}, 3, 1, 0; 2014 SA_{368}, 3, 1, 0; 2014 TK_{48}, 3, 1, 0; 2014 WO_{431}, 3, 1, 0; 2015 AD_{26}, 3, 1, 0; 2015 AT_{284}, 3, 1, 0; 2015 BJ_4, 3, 1, 0; 2015 CV_{52}, 3, 1, 0; 2015 EX_6, 3, 1, 0; 2015 FY_{336}, 3, 1, 0; 2015 FV_{417}, 3, 1, 0; 2015 GN, 3, 1, 0; 2015 GD_7, 3, 1, 0; 2015 HX_4, 3, 1, 0; 2015 HC_{176}, 3, 1, 0; 2015 JB_2, 3, 1, 0; 2015 KK_{119}, 3, 1, 0; 2015 LV_{11}, 6, 1, 0; 2015 MW_{63}, 3, 1, 0; 2016 EN_7, 3, 1, 0; 2016 EF_{201}, 3, 1, 0; 2016 GH_{75}, 24, 1, 0; 2016 GT_{208}, 3, 1, 0; 2016 GG_{269}, 3, 1, 0; 2016 GD_{309}, 3, 1, 0; 2016 JH_{44}, 3, 1, 0; 2016 NT_{16}, 3, 1, 0; 2016 PK_{75}, 3, 1, 0; 2016 PS_{130}, 24, 1, 0; 2016 PL_{137}, 3, 1, 0; 2016 QS_{95}, 3, 1, 0; 2016 SC_1, 3, 1, 0; 2016 TY_7, 3, 1, 0; 2016 TN_{39}, 3, 1, 0; 2016 TC_{88}, 3, 1, 0; 2016 TM_{147}, 3, 1, 0; 2016 TC_{162}, 6, 1, 0; 2016 TX_{168}, 3, 1, 0; 2016 UJ_{24}, 3, 1, 0; 2016 UB_{36}, 3, 1, 0; 2016 WX_1, 3, 1, 0; 2016 XA_{22}, 6, 1, 0; 2016 YH_5, 3, 1, 0; 2017 AT_{17}, 3, 1, 0; 2017 AH_{20}, 3, 1, 0; 2017 BY_{29}, 3, 1, 0; 2017 KF_{43}, 9, 1, 0; 2017 PH_{42}, 3, 1, 0; 2017 PU_{45}, 3, 1, 0; 2017 QN_{56}, 3, 1, 0; 2017 QU_{68}, 3, 1, 0; 2017 QV_{94}, 3, 1, 0; 2017 RT_{16}, 3, 1, 0; 2017 RF_{28}, 3, 1, 0; 2017 RN_{136}, 3, 1, 0; 2017 SG_9, 3, 1, 0; 2017 TF_9, 3, 1, 0; 2017 TX_{14}, 3, 1, 0; 2017 UZ_{17}, 15, 1, 0; 2017 UH_{55}, 3, 1, 0; 2017 UQ_{151}, 3, 1, 0; 2017 VJ_3, 3, 1, 0; 2017 VB_{54}, 3, 1, 0; 2017 WO_{10}, 12, 1, 0; 2017 WZ_{20}, 3, 1, 0; 2017 XA_3, 3, 1, 0; 2017 XK_3, 3, 1, 0; 2017 YM_8, 3, 1, 0; 2017 YJ_{10}, 3, 1, 0; 2018 HC_2, 3, 1, 0; 2018 YC_3, 3,

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W95 Observatorio Panameno, San Pedro de Atacama

Observers A. Maury, G. Attard, J. Fabrega. Measurers A. Maury, G. Attard, D. Parrott. 0.40-m $f/3.8$ reflector + CCD.

2005 YN_{136}, 3, 1, 0; 2008 SX_{148}, 6, 2, 1; 2013 TM_4, 6, 2, 1; 2016 GH_{75}, 3, 1, 0; 2016 GD_{309}, 6, 2, 1; 2017 RN_{136}, 6, 2, 2; 2019 EG, 6, 1, 0; 2021 PZ_{16}, 6, 2, 1; 2021 QG, 6, 2, 6; 2021 QH, 3, 1, 0; 2021 QL_1, 6, 2, 1; 2021 QN_1, 6, 2, 2; 2021 QY_1, 6, 2, 1; 2021 QT_5, 3, 1, 0; 2021 RP, 12, 3, 2; 2021 RX_5, 9, 2, 1; 2021 RZ_6, 12, 4, 3; *[105, 17, 0∗, 2021/08/10–2021/09/11]*

W98 Polonia Observatory, San Pedro de Atacama

Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski. Measurers M. Kusiak, R. Reszelewski. 0.25-m $f/3.6$ astrograph + CCD, 0.25-m $f/3.6$ reflector + CCD. (03)

Observers R. Reszelewski, M. Żołnowski, M. Kusiak, M. Gedek. Measurers R. Reszelewski, M. Kusiak. 0.25-m $f/3.6$ reflector + CCD. (04)

{3} 2012 TC_{377}, 4, 1, 0; 2013 QD_{35}, 3, 1, 0; (3948), 3, 1, 0; (13688), 3, 1, 0; (23423), 3, 1, 0; (27995), 3, 1, 0; (30310), 3, 1, 0; (32657), 3, 1, 0; (61685), 3, 1, 0; (77455), 3, 1, 0; (81720), 3, 1, 0; (85492), 3, 1, 0; (111717), 3, 1, 0; (111796), 3, 1, 0; (184211), 3, 1, 0; (200518), 3, 1, 0; (246815), 3, 1, 0; (566471), 2, 1, 0; *[54, 18, 0∗, 2016/08/01–2018/06/07]*

{4} (369), 3, 1, 0; (2226), 3, 1, 0; (16549), 3, 1, 0; (21635), 3, 1, 0; (26938), 3, 1, 0; (42421), 3, 1, 0; (46324), 3, 1, 0; (55166), 3, 1, 0; (96397), 2, 1, 0; (118779), 3, 1, 0; (134425), 3, 1, 0; (151182), 2, 1, 0; (195773), 3, 1, 0; (244070), 2, 1, 0; (455191), 3, 1, 0; *[42, 15, 0∗, 2018/07/06–2018/09/14]*

X02 Telescope Live, El Sauce

Observers E. Guido, M. Rocchetto, E. Bryssinck, M. Fulle, G. Milani, C. Nassef, G. Savini, A. Valvasori. Measurer E. Guido. 0.61-m $f/6.5$ astrograph + CCD.

2021 QA, 2, 1, 0; *[2, 1, 0∗, 2021/08/17]*

X03 Observatoire SADR, Poroto

Observers J. L. Virlichie, P. Traverse. Measurer P. Traverse. 0.35-m $f/4.7$ Newtonian reflector + CCD.

(2060), 3, 1, 0; *[3, 1, 0∗, 2021/09/14]*

X31 Galileo Galilei Observatory, Oro Verde

Observers C. Fornari, F. Alsina, A. Romero, M. Chiardola. Measurer C. Fornari. 0.40-m $f/8$ Ritchey-Chrétien + CCD.

2010 RJ_{53}, 2, 1, 0; 2021 RX_5, 3, 1, 0; (68063), 3, 1, 0; (143649), 5, 1, 0; *[13, 4, 0∗, 2021/09/10–2021/09/17]*

X70 Observatorio OATU, Tupi Paulista

Observer A. Junior.

2001 EC, 4, 2, 1; *[4, 1, 0∗, 2021/09/06–2021/09/07]*

X74 Observatório Campo dos Amarais

Observer L. S. Amaral. 0.31-m $f/3.4$ Newtonian reflector + CCD, 0.3-m $f/4$ reflector + CCD.

2002 QH_{138}, 6, 1, 0; 2003 EA_{64}, 3, 1, 0; 2004 OL_{17}, 6, 1, 0; 2005 RO_{33}, 9, 1, 0; 2011 UM_{232}, 3, 1, 0; 2016 PP_{29}, 6, 2, 1; 2016 SH_{100}, 3, 1, 0; 2018 NV_{37}, 3, 1, 0; 2018 RH_{61}, 6, 2, 1; 2019 GF_{114}, 3, 1, 0; 2020 BA_{16}, 6, 2, 3; 2020 HA_{120}, 9, 2, 2; 2021 CQ_1, 3, 1, 0; 2021 MO_1, 3, 1, 0; 2021 NL_{29}, 9, 2, 2; 2021 NC_{36} ∗, 6, 1, 0; 2021 NE_{39} ∗, 12, 3, 2; 2021 PB, 3, 1, 0; 2021 PP_2, 2, 1, 0; 2021 PF_5, 3, 1, 0; (1566), 6, 1, 0; (1654), 3, 1, 0; (1838), 6, 1, 0; (2040), 3, 1, 0; (2089), 6, 1, 0; (2835), 3, 1, 0; (3035), 3, 1, 0; (3075), 3, 1, 0; (3275), 6, 1, 0; (3747), 3, 1, 0; (4031), 6, 1, 0; (4715), 3, 1, 0; (5841), 3, 1, 0; (7593), 3, 1, 0; (8030), 3, 1, 0; (8404), 6, 1, 0; (10094), 3, 1, 0; (11852), 3, 1, 0; (12300), 6, 1, 0; (17171), 3, 1, 0; (18348), 6, 1, 0; (18942), 3, 1, 0; (19260), 3, 1, 0; (20801), 3, 1, 0; (23139), 3, 1, 0; (25185), 3, 1, 0; (26056), 3, 1, 0; (29200), 3, 1, 0; (31148), 3, 1, 0; (31220), 3, 1, 0; (31247), 3, 1, 0; (31300), 3, 1, 0; (31354), 3, 1, 0; (31530), 3, 1, 0; (32486), 3, 1, 0; (34596), 6, 1, 0;

(35530), 6, 1, 0; (36448), 6, 1, 0; (42284), 3, 1, 0; (42354), 3, 1, 0; (45169), 3, 1, 0; (47983), 6, 1, 0; (53147), 3, 1, 0; (54524), 3, 1, 0; (54784), 3, 1, 0; (54807), 3, 1, 0; (54908), 3, 1, 0; (59499), 6, 1, 0; (61509), 3, 1, 0; (63776), 6, 1, 0; (65693), 3, 1, 0; (68777), 6, 1, 0; (69550), 3, 1, 0; (71239), 6, 1, 0; (72191), 6, 1, 0; (74427), 6, 1, 0; (74966), 3, 1, 0; (78705), 3, 1, 0; (79472), 6, 1, 0; (79531), 3, 1, 0; (85189), 3, 1, 0; (85196), 6, 1, 0; (87412), 3, 1, 0; (98759), 3, 1, 0; (100139), 3, 1, 0; (100305), 3, 1, 0; (111828), 6, 1, 0; (117538), 6, 1, 0; (117997), 3, 1, 0; (123930), 3, 1, 0; (123947), 6, 1, 0; (125245), 3, 1, 0; (154646), 3, 1, 0; (176552), 9, 1, 0; (189305), 6, 1, 0; (218033), 3, 1, 0; (224906), 3, 1, 0; (321025), 3, 1, 0; (326307), 6, 1, 0; (354922), 6, 1, 0; (358109), 12, 1, 0; (477211), 3, 1, 0; (494880), 3, 1, 0; (534676), 3, 1, 0; *[449, 104, 2*, 2018/06/17–2021/09/07]*

Y00 SONEAR Observatory, Oliveira

Observers C. Jacques, E. Pimentel, J. Barros, P. Holvorcem. Measurer C. Jacques. 0.45-m $f/2.9$ reflector + CCD, 0.28-m $f/2.2$ astrograph + CCD, 0.45-m $f/2.9$ astrograph + CCD.

2001 EC, 3, 1, 0; 2004 XJ_{29}, 3, 1, 0; 2005 OG_3, 6, 2, 14; 2006 DH_{99}, 3, 1, 0; 2007 TG_{25}, 3, 1, 0; 2008 CD_6, 3, 1, 0; 2011 YQ_{10}, 12, 4, 20; 2012 KK_{18}, 3, 1, 0; 2013 VT_{11}, 3, 1, 0; 2016 AJ_{193}, 9, 3, 4; 2017 RK_{15}, 3, 1, 0; 2018 TG_5, 3, 1, 0; 2021 JQ_{24}, 6, 2, 1; 2021 JF_{52}, 9, 3, 17; 2021 MO_1, 6, 2, 6; 2021 OD, 3, 1, 0; 2021 PF_5, 3, 1, 0; 2021 PB_9, 3, 1, 0; 2021 PE_{20}, 3, 1, 0; 2021 PF_{20}, 3, 1, 0; 2021 PH_{27}, 2, 1, 0; 2021 PJ_{27}, 3, 1, 0; 2021 PO_{41}, 3, 1, 0; 2021 QA, 3, 1, 0; 2021 QA_1, 3, 1, 0; 2021 QC_1, 3, 1, 0; 2021 QD_1, 6, 1, 0; 2021 QL_1, 3, 1, 0; 2021 QN_1, 3, 1, 0; 2021 QO_1, 3, 1, 0; 2021 QR_1, 3, 1, 0; 2021 QB_3, 9, 3, 6; 2021 QN_3, 3, 1, 0; 2021 QK_5, 3, 1, 0; 2021 RA ∗, 23, 2, 1; 2021 RH, 3, 1, 0; 2021 RP, 3, 1, 0; 2021 RB_1 ∗, 12, 1, 0; 2021 RN_1, 3, 1, 0; 2021 RA_4, 3, 1, 0; 2021 RX_5, 3, 1, 0; 2021 RU_{10}, 3, 1, 0; 2021 RF_{12}, 3, 1, 0; 2021 RG_{12}, 3, 1, 0; 2021 RJ_{14}, 3, 1, 0; 2021 SG, 3, 1, 0; 2021 SH, 2, 1, 0; (4), 12, 4, 16; (9), 9, 3, 11; (37), 3, 1, 0; (63), 3, 1, 0; (66), 3, 1, 0; (81), 9, 3, 7; (84), 3, 1, 0; (93), 6, 2, 9; (97), 3, 1, 0; (99), 3, 1, 0; (107), 6, 2, 1; (112), 3, 1, 0; (116), 6, 2, 9; (118), 3, 1, 0; (123), 3, 1, 0; (125), 3, 1, 0; (128), 6, 1, 0; (131), 3, 1, 0; (144), 6, 2, 1; (148), 3, 1, 0; (155), 3, 1, 0; (164), 3, 1, 0; (172), 3, 1, 0; (173), 3, 1, 0; (174), 3, 1, 0; (182), 12, 4, 9; (183), 12, 4, 18; (192), 9, 3, 14; (195), 6, 1, 0; (198), 9, 3, 14; (199), 3, 1, 0; (220), 15, 5, 17; (222), 3, 1, 0; (227), 3, 1, 0; (231), 3, 1, 0; (237), 12, 4, 9; (238), 9, 3, 14; (244), 3, 1, 0; (248), 3, 1, 0; (252), 3, 1, 0; (256), 15, 5, 4; (258), 9, 3, 12; (263), 3, 1, 0; (271), 3, 1, 0; (274), 3, 1, 0; (307), 3, 1, 0; (321), 6, 2, 5; (326), 2, 1, 0; (339), 3, 1, 0; (363), 6, 2, 5; (366), 3, 1, 0; (374), 9, 3, 10; (378), 3, 1, 0; (394), 6, 2, 12; (397), 3, 1, 0; (404), 3, 1, 0; (409), 6, 2, 13; (433), 6, 2, 29; (443), 3, 1, 0; (448), 9, 3, 20; (459), 3, 1, 0; (462), 3, 1, 0; (464), 6, 2, 11; (476), 3, 1, 0; (492), 3, 1, 0; (493), 3, 1, 0; (496), 3, 1, 0; (498), 6, 2, 8; (502), 3, 1, 0; (508), 6, 2, 5; (532), 3, 1, 0; (536), 3, 1, 0; (539), 3, 1, 0; (542), 6, 2, 10; (559), 3, 1, 0; (563), 3, 1, 0; (567), 6, 2, 5; (583), 9, 3, 2; (589), 6, 2, 1; (590), 3, 1, 0; (599), 9, 3, 14; (602), 3, 1, 0; (606), 9, 3, 5; (637), 3, 1, 0; (639), 9, 3, 17; (652), 3, 1, 0; (658), 3, 1, 0; (680), 3, 1, 0; (686), 3, 1, 0; (692), 3, 1, 0; (694), 18, 6, 12; (704), 6, 1, 0; (715), 12, 4, 3; (726), 3, 1, 0; (727), 6, 2, 16; (741), 3, 1, 0; (745), 3, 1, 0; (750), 6, 2, 15; (752), 6, 2, 14; (770), 3, 1, 0; (779), 3, 1, 0; (798), 9, 3, 10; (803), 3, 1, 0; (814), 3, 1, 0; (845), 3, 1, 0; (852), 3, 1, 0; (862), 3, 1, 0; (863), 3, 1, 0; (872), 3, 1, 0; (879), 3, 1, 0; (896), 6, 2, 3; (898), 3, 1, 0; (955), 6, 2, 28; (973), 3, 1, 0; (987), 3, 1, 0; (996), 3, 1, 0; (1003), 6, 2, 12; (1013), 9, 3, 9; (1048), 12, 4, 14; (1049), 3, 1, 0; (1052), 3, 1, 0; (1078), 3, 1, 0; (1079), 3, 1, 0; (1080), 3, 1, 0; (1087), 3, 1, 0; (1103), 3, 1, 0; (1109), 3, 1, 0; (1112), 3, 1, 0; (1116), 3, 1, 0; (1117), 3, 1, 0; (1132), 6, 2, 26; (1142), 6, 2, 5; (1147), 3, 1, 0; (1152), 3, 1, 0; (1206), 3, 1, 0; (1215), 3, 1, 0; (1225), 6, 2, 10; (1243), 3, 1, 0; (1258), 3, 1, 0; (1259), 6, 2, 12; (1266), 9, 3, 14; (1276), 3, 1, 0; (1291), 3, 1, 0; (1302), 3, 1, 0; (1324), 3, 1, 0; (1356), 3, 1, 0; (1385), 3, 1, 0; (1411), 6, 2, 1; (1419), 3, 1, 0; (1423), 3, 1, 0; (1432), 3, 1, 0; (1444), 3, 1, 0; (1455), 3, 1, 0; (1458), 3, 1, 0; (1482), 6, 2, 5; (1505), 9, 3, 12; (1506), 3, 1, 0; (1509), 3, 1, 0; (1544), 3, 1, 0; (1569), 3, 1, 0; (1616), 3, 1, 0; (1627), 6, 2, 35; (1630), 3, 1, 0; (1635), 3, 1, 0; (1636), 3, 1, 0; (1659), 3, 1, 0; (1683), 3, 1, 0; (1707), 3, 1, 0; (1737), 9, 3, 4; (1745), 3, 1, 0; (1764), 6, 2, 5; (1771), 3, 1, 0; (1773), 3, 1, 0; (1784), 3, 1, 0; (1793), 6, 2, 12; (1798), 3, 1, 0; (1802), 6, 2, 4; (1806), 3, 1, 0; (1866), 3, 1, 0; (1902), 9, 3, 11; (1947), 3, 1, 0; (1987), 9, 3, 13; (2000), 3, 1, 0; (2015), 3, 1, 0; 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(4341), 3, 1, 0; (4471), 3, 1, 0; (4520), 3, 1, 0; (4531), 3, 1, 0; (4545), 3, 1, 0; (4577), 3, 1, 0; (4583), 3, 1, 0; (4673), 3, 1, 0; (4701), 3, 1, 0; (4702), 3, 1, 0; (4712), 3, 1, 0; (4857), 9, 2, 8; (4862), 3, 1, 0; (4954), 3, 1, 0; (5039), 3, 1, 0; (5069), 3, 1, 0; (5133), 3, 1, 0; (5144), 3, 1, 0; (5214), 3, 1, 0; (5325), 3, 1, 0; (5389), 3, 1, 0; (5430), 6, 2, 9; (5463), 2, 1, 0; (5483), 3, 1, 0; (5558), 9, 3, 25; (5605), 3, 1, 0; (5633), 3, 1, 0; (5682), 3, 1, 0; (5705), 3, 1, 0; (5739), 6, 2, 1; (5788), 3, 1, 0; (5875), 3, 1, 0; (5960), 3, 1, 0; (6008), 3, 1, 0; (6024), 3, 1, 0; (6029), 3, 1, 0; (6031), 3, 1, 0; (6118), 3, 1, 0; (6274), 3, 1, 0; (6311), 6, 2, 4; (6422), 6, 2, 10; (6528), 3, 1, 0; (6801), 3, 1, 0; (6840), 3, 1, 0; (6929), 3, 1, 0; (7031), 3, 1, 0; (7117), 3, 1, 0; (7191), 3, 1, 0; (7252), 6, 1, 0; (7418), 3, 1, 0; (7505), 3, 1, 0; (7520), 3, 1, 0; (7563), 3, 1, 0; (7605), 12, 4, 6; (7738), 3, 1, 0; (7763), 3, 1, 0; (7769), 3, 1, 0; (7889), 6, 2, 1; (7997), 3, 1, 0; (8005), 3, 1, 0; (8088), 3, 1, 0; (8101), 3, 1, 0; (8127), 6, 2, 4; (8242), 3, 1, 0; (8267), 3, 1, 0; (8275), 3, 1, 0; (8287), 3, 1, 0; (8350), 3, 1, 0; (8404), 6, 2, 9; (8573), 3, 1, 0; (8597), 3, 1, 0; (8634), 3, 1, 0; (8728), 3, 1, 0; (8919), 3, 1, 0; (8989), 6, 2, 1; (9044), 3, 1, 0; (9048), 9, 3, 14; (9082), 3, 1, 0; (9117), 3, 1, 0; (9283), 3, 1, 0; (9299), 3, 1, 0; (9460), 6, 1, 0; (9581), 3, 1, 0; (9680), 3, 1, 0; (10283), 3, 1, 0; (10297), 3, 1, 0; (10419), 3, 1, 0; (10560), 3, 1, 0; (10562), 12, 4, 25; (10741), 3, 1, 0; (10840), 3, 1, 0; (10841), 3, 1, 0; (10885), 3, 1, 0; (11079), 3, 1, 0; (11235), 3, 1, 0; (11271), 6, 2, 6; (11852), 15, 5, 27; (11856), 3, 1, 0; (11861), 3, 1, 0; (11909), 9, 3, 8; (12034), 9, 3, 19; (12055), 3, 1, 0; (12065), 3, 1, 0; (12109), 3, 1, 0; (12155), 3, 1, 0; (12256), 3, 1, 0; (12280), 3, 1, 0; (12291), 3, 1, 0; (12401), 3, 1, 0; (12564), 3, 1, 0; (12574), 3, 1, 0; (13028), 3, 1, 0; (13214), 6, 2, 4; (13256), 6, 2, 4; (13418), 3, 1, 0; (13423), 3, 1, 0; (13659), 3, 1, 0; (13699), 3, 1, 0; (13839), 3, 1, 0; (13988), 3, 1, 0; (14012), 3, 1, 0; (14112), 3, 1, 0; (14455), 3, 1, 0; (14823), 3, 1, 0; (14877), 3, 1, 0; (14911), 6, 2, 7; (14950), 3, 1, 0; (14994), 3, 1, 0; (15254), 6, 2, 4; (15464), 6, 1, 0; (15496), 3, 1, 0; (15970), 3, 1, 0; (16013), 3, 1, 0; (16138), 3, 1, 0; (16340), 3, 1, 0; (16422), 3, 1, 0; (16594), 3, 1, 0; (16681), 6, 2, 24; (16855), 3, 1, 0; (16895), 3, 1, 0; (16940), 3, 1, 0; (17019), 6, 2, 7; (17081), 3, 1, 0; (17483), 3, 1, 0; (17705), 3, 1, 0; (17740), 3, 1, 0; (17950), 3, 1, 0; (18082), 3, 1, 0; (18348), 6, 2, 18; (18448), 3, 1, 0; (18581), 3, 1, 0; (18607), 6, 2, 8; (18617), 3, 1, 0; (18677), 3, 1, 0; (18779), 3, 1, 0; (18873), 3, 1, 0; (18923), 9, 3, 6; (19078), 3, 1, 0; (19189), 9, 3, 8; (19261), 3, 1, 0; (19357), 3, 1, 0; (19379), 6, 2, 8; (19405), 3, 1, 0; (19570), 3, 1, 0; (19690), 3, 1, 0; (19698), 3, 1, 0; (20281), 6, 2, 15; (20287), 3, 1, 0; (20687), 3, 1, 0; (20767), 3, 1, 0; (21791), 3, 1, 0; (22114), 3, 1, 0; (22177), 6, 1, 0; (22257), 3, 1, 0; (22275), 3, 1, 0; (22324), 3, 1, 0; (22628), 6, 2, 4; (22883), 3, 1, 0; (22903), 9, 3, 9; (23072), 3, 1, 0; (23140), 3, 1, 0; (23255), 12, 4, 24; (23275), 3, 1, 0; (23394), 3, 1, 0; (23452), 9, 3, 4; (23974), 3, 1, 0; (24037), 3, 1, 0; (24270), 6, 2, 4; (24294), 3, 1, 0; (24702), 12, 4, 20; (24980), 3, 1, 0; (25316), 3, 1, 0; (25320), 3, 1, 0; (25442), 3, 1, 0; (25700), 3, 1, 0; (26029), 3, 1, 0; (26420), 3, 1, 0; (26569), 6, 2, 16; (27149), 3, 1, 0; (27276), 6, 2, 16; (27293), 3, 1, 0; (27756), 3, 1, 0; (27760), 3, 1, 0; (28227), 6, 2, 22; (28381), 3, 1, 0; (29164), 3, 1, 0; (29167), 3, 1, 0; (29516), 3, 1, 0; (29655), 3, 1, 0; (29821), 3, 1, 0; (29919), 3, 1, 0; (30100), 3, 1, 0; (30259), 3, 1, 0; (30299), 3, 1, 0; (30706), 3, 1, 0; (30814), 6, 1, 0; (31148), 3, 1, 0; (31267), 3, 1, 0; (31385), 3, 1, 0; (31392), 3, 1, 0; (31420), 6, 2, 16; (31572), 3, 1, 0; (31601), 3, 1, 0; (31746), 3, 1, 0; (31967), 3, 1, 0; (32015), 3, 1, 0; (32067), 3, 1, 0; (32328), 3, 1, 0; 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Y16 ROCG, Campos dos Goytacazes

Observer C. H. Barreto. 0.25-m $f/3.5$ reflector + CCD.

(3451), 3, 1, 0; *[3, 1, 0*, 2021/08/23–2021/08/24]*

Z02 HAO observatory, Oukaïmeden

Observer A. Kaeouach. 0.28-m $f/10$ reflector + CCD.

(951), 6, 2, 4; (1000), 6, 2, 4; (1660), 6, 2, 1; (1741), 6, 2, 1; (1966), 6, 2, 1; (9737), 3, 1, 0; (14981), 6, 2, 1; (31173), 3, 1, 0; (43635), 3, 1, 0; *[45, 9, 0*, 2021/08/15–2021/09/18]*

Z03 Rio Cofio, Robledo de Chavela

Observer A. Garcia.

(478), 6, 2, 15; *[6, 1, 0*, 2021/08/28–2021/09/11]*

Z05 Observatorio Horus, Cartama

Observer E. Martinez.

(523668), 6, 2, 1; *[6, 1, 0*, 2021/09/03–2021/09/04]*

Z10 PGC, Fregenal de la Sierra

Observer P. Carson. 0.32-m $f/8$ reflector.

(395307), 2, 1, 0; (574541), 2, 1, 0; *[4, 2, 0*, 2021/08/18]*

Z22 MASTER-IAC Observatory, Tenerife

Observers V. Lipunov, Y. Kechin, E. Gorbovskoy, R. Rebolo, G. Israelyan, M. Serra-ricart, N. Lodieu, P. Balanutsa, A. Kuznetsov, N. Tiurina, O. Gress, K. Ivanov. 0.4-m $f/2.5$ reflector + CCD.

2002 QO_{24}, 2, 1, 0; 2012 HF, 2, 1, 0; 2015 GZ_{33}, 2, 1, 0; (40), 21, 8, 9; (43), 8, 4, 5; (99), 3, 1, 0; (111), 18, 7, 10; (117), 4, 1, 0; (129), 2, 1, 0; (139), 5, 1, 0; (151), 6, 3, 9; (167), 3, 1, 0; (169), 5, 2, 1; (188), 4, 2, 8; (191), 12, 6, 9; (199), 3, 1, 0; (208), 2, 1, 0; (214), 6, 2, 2; (217), 4, 2, 1; (224), 2, 1, 0; (229), 2, 1, 0; (259), 2, 1, 0; (264), 24, 1, 0; (279), 12, 6, 9; (303), 12, 6, 8; (310), 4, 2, 4; (325), 3, 1, 0; (377), 14, 7, 9; (385), 15, 7, 9; (388), 4, 2, 1; (460), 14, 7, 9; (468), 15, 6, 8; (544), 4, 2, 1; (552), 8, 4, 9; (555), 2, 1, 0; (558), 2, 1, 0; (560), 6, 2, 3; (561), 4, 2, 1; (603), 2, 1, 0; (614), 2, 1, 0; (615), 6, 1, 0; (642), 18, 6, 9; (649), 10, 5, 6; (673), 4, 1, 0; (732), 6, 1, 0; (749), 2, 1, 0; (781), 2, 1, 0; (830), 3, 1, 0; (841), 3, 1, 0; (846), 10, 5, 7; (868), 10, 5, 9; (877), 16, 8, 9; (904), 11, 5, 8; (918), 5, 2, 4; (920), 10, 4, 9; (939), 6, 3, 7; (949), 6, 3, 4; (950), 10, 4, 9; (953), 2, 1, 0; (954), 2, 1, 0; (994), 2, 1, 0; 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(172472), 2, 1, 0; (174136), 2, 1, 0; (174667), 2, 1, 0; (175817), 2, 1, 0; (176754), 2, 1, 0; (180430), 2, 1, 0; (181057), 6, 3, 2; (181958), 4, 2, 3; (183819), 2, 1, 0; (184539), 2, 1, 0; (185433), 2, 1, 0; (188367), 4, 2, 2; (188810), 4, 2, 1; (189605), 2, 1, 0; (189766), 2, 1, 0; (190292), 4, 2, 1; (190640), 4, 2, 2; (190713), 4, 2, 1; (191589), 2, 1, 0; (191595), 2, 1, 0; (191662), 6, 3, 3; (191992), 2, 1, 0; (193818), 2, 1, 0; (194784), 2, 1, 0; (195441), 2, 1, 0; (196564), 2, 1, 0; (197000), 2, 1, 0; (197767), 2, 1, 0; (198445), 4, 2, 1; (198473), 2, 1, 0; (199395), 2, 1, 0; (200868), 2, 1, 0; (201531), 2, 1, 0; (201586), 2, 1, 0; (202913), 2, 1, 0; (202926), 2, 1, 0; (203396), 2, 1, 0; (203489), 2, 1, 0; (203681), 2, 1, 0; (204124), 2, 1, 0; (204289), 2, 1, 0; (205615), 2, 1, 0; (205763), 2, 1, 0; (205783), 2, 1, 0; (210337), 2, 1, 0; (213567), 2, 1, 0; (214553), 2, 1, 0; (215126), 4, 2, 1; (215133), 2, 1, 0; (215793), 4, 2, 1; (216791), 2, 1, 0; (217854), 4, 2, 8; (217865), 2, 1, 0; (217919), 2, 1, 0; (217923), 2, 1, 0; (218915), 2, 1, 0; (219597), 5, 2, 1; (219676), 2, 1, 0; (219759), 2, 1, 0; (219803), 2, 1, 0; (219808), 2, 1, 0; (219859), 2, 1, 0; (222246), 2, 1, 0; (224450), 2, 1, 0; (225706), 2, 1, 0; (226644), 2, 1, 0; (229769), 4, 2, 7; (229770), 2, 1, 0; (235120), 2, 1, 0; (237803), 4, 2, 8; (238440), 2, 1, 0; (238823), 2, 1, 0; (240878), 2, 1, 0; (241125), 2, 1, 0; (242786), 2, 1, 0; (242820), 2, 1, 0; (243109), 2, 1, 0; (243669), 2, 1, 0; (243796), 2, 1, 0; (247152), 2, 1, 0; (248114), 2, 1, 0; (252021), 2, 1, 0; (255693), 2, 1, 0; (259464), 2, 1, 0; (264098), 1, 1, 0; (264536), 2, 1, 0; (265602), 2, 1, 0; (267452), 4, 2, 1; (268974), 2, 1, 0; (272195), 2, 1, 0; (273364), 6, 3, 5; (282172), 2, 1, 0; (286884), 2, 1, 0; (288973), 2, 1, 0; (293248), 2, 1, 0; (295468), 2, 1, 0; (297295), 4, 2, 2; (303304), 6, 2, 1; (311138), 2, 1, 0; (314655), 2, 1, 0; (316651), 10, 5, 8; (332591), 2, 1, 0; (333246), 4, 2, 7; (333429), 2, 1, 0; (333469), 4, 2, 1; (336513), 2, 1, 0; (341144), 2, 1, 0; (346537), 2, 1, 0; (356713), 4, 2, 1; (364117), 4, 2, 4; (365498), 2, 1, 0; (369868), 3, 1, 0; (375778), 2, 1, 0; (378257), 4, 2, 9; (380187), 2, 1, 0; (380828), 2, 1, 0; (382436), 2, 1, 0; (382457), 2, 1, 0; (382799), 2, 1, 0; (383856), 3, 1, 0; (385760), 2, 1, 0; (392183), 2, 1, 0; (406420), 2, 1, 0; (412729), 6, 3, 2; (413343), 2, 1, 0; (423761), 2, 1, 0; (425685), 4, 1, 0; (428707), 2, 1, 0; (432272), 2, 1, 0; (455629), 2, 1, 0; (559546), 2, 1, 0; *[11865, 2555, 0∗, 2021/08/08–2021/08/22]*

Z24 Tenerife Observatory-LCO B, Tenerife

Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet. Measurer T. Lister. 1.0-m f/8.0 Ritchey-Chrétien + CCD.

2008 CD_6, 4, 1, 0; *[4, 1, 0∗, 2021/09/14]*

Z31 Tenerife Observatory-LCO A, Tenerife

Observers W. Thuillot, R. Mendez, S. Bouquillon, D. Souami, F. Spoto. Measurers W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache. 1.0-m f/8.0 Ritchey-Chrétien + CCD.

2011 FC_{155}, 5, 1, 0; 2014 WG_{76}, 6, 1, 0; (251), 6, 1, 0; (77922), 6, 1, 0; (211137), 6, 1, 0; (256771), 5, 1, 0; (281549), 6, 1, 0; (381572), 4, 1, 0; (382095), 6, 1, 0; (441351), 4, 1, 0; (478397), 3, 1, 0; *[57, 11, 0∗, 2021/08/05–2021/08/19]*

Z32 Observatorio Astrofisico de Javalambre

Observers M. Mahlke, H. Vázquez Ramió, A. Alvarez-Candal, A. Ederoclite, A. Moreno, E. Solano, R. Iglesias Marzoa, B. B. Siffert, V. M. Placco, M. C. Diaz-Martin, E. Lacruz. Measurers M. Mahlke, E. Solano. 0.83-m reflector + CCD.

2013 QK_{60}, 5, 1, 0; 2015 LC_{57}, 14, 2, 9; (104898), 17, 1, 0; (164719), 15, 1, 0; (214687), 11, 1, 0; (360898), 13, 1, 0; (401806), 16, 1, 0; (507624), 16, 1, 0; (507785), 10, 1, 0; *[117, 9, 0∗, 2017/12/07–2021/08/28]*

Z34 NNHS Drummonds Observatory

Observer S. J. Arnold.

(911), 4, 1, 0; (957), 8, 2, 1; (1007), 9, 2, 1; (1222), 4, 1, 0; (6249), 3, 1, 0; (7735), 3, 1, 0; (9168), 4, 1, 0; (20193), 3, 1, 0; (20453), 4, 1, 0; (37274), 4, 1, 0; *[46, 10, 0∗, 2021/08/08–2021/09/07]*

Z40 El Manzanillo Observatory, Puerto de la Torre

Observer J. V. Martinez.

2012 XD_{136}, 2, 1, 0; (647), 4, 1, 0; (11739), 2, 1, 0; (29149), 3, 1, 0; (30387), 3, 1, 0; (31256), 3, 1, 0; (36735), 3, 1, 0; (38019), 3, 1, 0; (56240), 7, 2, 4; *[30, 9, 0∗, 2021/09/02–2021/09/09]*

Z41 Irydeo Observatory, Camarma de Esteruelas

Observer F. Calvo. 0.16-m f/3.3 reflector + CCD, 0.30-m f/8 reflector + CCD.

2021 QA, 3, 1, 0; 2021 QV_1, 3, 1, 0; 2021 RD_{20}, 7, 1, 0; 2021 SM, 3, 1, 0; 2021 SO, 3, 1, 0; *[19, 5, 0∗, 2021/08/17–2021/09/18]*

Z43 Landehen

Observer C. Ratinaud. 0.25-m f/4.7 reflector + CCD + GPS-tagged video, 0.25-m f/4.7 reflector + CCD.

2010 LB_{64}, 3, 1, 0; 2011 UC_{292}, 4, 1, 0; 2021 LG_2, 4, 1, 0; 2021 LN_3, 7, 2, 3; 2021 LV_7, 3, 1, 0; 2021 MG_1, 15, 4, 19; 2021 PT, 4, 1, 0; 2021 QB_3, 5, 1, 0; 2021 RB_1, 3, 1, 0; 2021 RG_2, 3, 1, 0; 2021 RH_2, 2, 1, 0; (12538), 4, 1, 0; (75936), 4, 1, 0; (136108), 4, 2, 8; (159857), 8, 2, 9; (161995), 3, 1, 0; (285571), 16, 4, 8; (353938), 12, 3, 10; (374267), 4, 1, 0; (491567), 7, 2, 9; (495615), 6, 2, 8; (506459), 4, 1, 0; *[125, 22, 0∗, 2021/06/04–2021/09/06]*

Z55 Uraniborg Observatory, Écija
Observer R. Farfan. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.
(663), 9, 1, 0; (1031), 72, 3, 16; (4155), 6, 1, 0; *[87, 3, 0∗, 2021/08/17–2021/09/10]*

Z80 Northolt Branch Observatory
Observers G. Wells, J. Leuty. Measurers G. Wells, D. Bamberger. 0.25-m $f/8.0$ Ritchey-Chrétien + CCD.
2008 CD_6, 6, 2, 2; 2009 QH_6, 6, 2, 1; 2011 UC_{292}, 9, 3, 12; 2011 YQ_{10}, 3, 1, 0; 2012 US_{136}, 3, 1, 0; 2014 HO_{129}, 6, 2, 1; 2014 UU_{192}, 2, 1, 0; 2019 NC_1, 14, 6, 13; 2019 UD_4, 14, 5, 12; 2020 PP, 2, 1, 0; 2021 LH_9, 4, 2, 10; 2021 LQ_{24}, 5, 2, 3; 2021 MG_1, 33, 11, 22; 2021 PT, 5, 2, 4; 2021 PR_2, 3, 1, 0; 2021 PY_{40}, 9, 3, 3; 2021 QA, 3, 1, 0; 2021 QW, 3, 1, 0; 2021 QH_1, 9, 3, 2; 2021 QM_1, 5, 2, 1; 2021 QR_1, 3, 1, 0; 2021 QA_2, 2, 1, 0; 2021 QB_3, 4, 1, 0; 2021 QV_6, 5, 2, 1; 2021 RA, 6, 2, 1; 2021 RF, 3, 1, 0; 2021 RH, 5, 2, 1; 2021 RB_1, 12, 3, 2; 2021 RG_2, 5, 1, 0; 2021 RH_2, 2, 1, 0; 2021 RP_2, 3, 1, 0; 2021 RL_3, 3, 1, 0; 2021 RX_5, 9, 3, 2; 2021 RQ_9, 3, 1, 0; 2021 RC_{10}, 3, 1, 0; 2021 RK_{14}, 2, 1, 0; 2021 RD_{20}, 3, 1, 0; 2021 SE, 3, 1, 0; 2021 SF, 3, 1, 0; 2021 SG, 10, 2, 1; (68063), 3, 1, 0; (152664), 3, 1, 0; (159857), 1, 1, 0; (199003), 6, 2, 1; (285571), 11, 4, 29; (353938), 5, 2, 7; *[262, 46, 0∗, 2021/08/15–2021/09/19]*

Z84 Calar Alto-Schmidt
Observers M. Micheli, L. Conversi. Measurers M. Micheli, L. Conversi, E. Petrescu, D. Föhring, E. Schwab, D. Koschny. 0.8-m $f/3$ Schmidt + CCD. (01)
Observers E. Schwab, D. Koschny, M. Micheli. 0.8-m $f/3$ Schmidt + CCD. (02)
{1} 2012 TJ_{376}, 5, 2, 1; 2020 OV_1, 3, 2, 1; 2021 PB_2, 4, 2, 1; 2021 PC_9, 3, 1, 0; *[15, 4, 0∗, 2021/08/13–2021/09/19]*

{2} 2004 RV_{273}, 3, 1, 0; 2010 RZ_{32}, 5, 1, 0; 2013 BR_{101}, 8, 2, 3; 2014 BX_{85}, 4, 1, 0; 2015 TP_{207}, 3, 1, 0; 2016 EM_{72}, 3, 1, 0; 2017 SQ_{265}, 4, 1, 0; 2017 VX_{43}, 3, 1, 0; 2018 BA_{29}, 8, 2, 2; 2020 CO_7, 9, 2, 1; 2021 FA_{49} ∗, 6, 2, 1; 2021 HT_{27}, 4, 1, 0; 2021 JN_{56}, 3, 1, 0; 2021 KY_{15} ∗, 7, 2, 1; (79058), 3, 1, 0; (254429), 3, 1, 0; (261677), 3, 1, 0; (319018), 3, 1, 0; *[82, 18, 2∗, 2018/02/14–2021/08/17]*

Z99 Clixby Observatory, Cleethorpes
Observer A. Mickleburgh. 0.36-m $f/8$ Schmidt-Cassegrain + CCD.
2021 PO_2, 4, 1, 0; 2021 PW_4, 5, 1, 0; 2021 PD_7, 3, 1, 0; 2021 PE_{10}, 3, 1, 0; (87071), 5, 1, 0; *[20, 5, 0∗, 2021/08/12–2021/08/13]*

ORBITAL ELEMENTS

Orbital elements have been computed and identifications found by the following contributors:

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R. Pike
P. Prema
M. Rudenko
P. Thomas
P. Vereš
R. Weryk
MPCLINUX (entirely automated processing on MPC Linux cluster)

C/2010 U3 (Boattini)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Feb. 25.43233 TT Rudenko

				P	**Q**
q	8.4447231		(2000.0)		
z	+0.0004162	ω	88.05190	−0.36105746	−0.74383019
	±0.0000006	Ω	43.01909	+0.07296941	−0.62382482
e	0.9964853	i	55.52969	+0.92968434	−0.23991509

From 3844 observations 2005 Nov. 5–2019 Sept. 10, mean residual 1″.6.

C/2014 B1 (Schwartz)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2017 Sept. 7.89688 TT Rudenko

				P	**Q**
q	9.5510671		(2000.0)		
z	+0.0001761	ω	345.72910	−0.84953919	−0.50527265
	±0.0000005	Ω	161.41942	+0.51853422	−0.85266642
e	0.9983178	i	28.40993	+0.09698161	+0.13288914

From 1270 observations 2014 Jan. 28–2021 July 5, mean residual 0″.6.

C/2014 UN_{271} (Bernardinelli-Bernstein)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2031 Jan. 27.17483 TT Rudenko

				P	**Q**
q	10.9333127		(2000.0)		
z	+0.0001394	ω	326.38239	−0.81121782	−0.55898246
	±0.0000014	Ω	189.92912	+0.04000579	−0.34591708
e	0.9984760	i	95.44587	−0.58337396	+0.75357812

From 113 observations 2014 Aug. 14–2021 Sept. 19, mean residual 0″.4.

C/2016 Q2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 May 11.93585 TT Rudenko

				P	**Q**
q	7.0818172		(2000.0)		
z	−0.0001167	ω	84.53230	−0.12671793	−0.80692169
	±0.0000009	Ω	322.29555	−0.66685494	+0.49985484
e	1.0008263	i	109.38834	+0.73433443	+0.31467845

From 480 observations 2016 Aug. 26–2021 Sept. 8, mean residual 0″.8.

C/2017 B3 (LINEAR)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Feb. 2.46665 TT Rudenko

				P	**Q**
q	3.9241210		(2000.0)		
z	−0.0003516	ω	284.80386	+0.27684040	+0.96042169
	±0.0000002	Ω	2.17834	−0.19824307	+0.08846323
e	1.0013796	i	54.16547	−0.94024416	+0.26412959

From 1489 observations 2016 Mar. 4–2021 Aug. 20, mean residual 0″.5.

C/2017 K2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Dec. 19.74509 TT Rudenko

				P	**Q**
q	1.7974649		(2000.0)		
z	−0.0003173	ω	236.19007	+0.01840735	+0.04920776
	±0.0000003	Ω	88.24398	−0.18107412	+0.98243606
e	1.0005704	i	87.55298	−0.98329717	−0.17999438

From 6279 observations 2013 May 12–2021 Sept. 18, mean residual 0″.5.

C/2017 U7 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Sept. 14.18467 TT Rudenko

				P	Q
q	6.4236722		(2000.0)		
z	−0.0000796	ω	326.32110	+0.52838616	−0.59675808
	±0.0000006	Ω	276.24476	−0.58099647	−0.77281789
e	1.0005112	i	142.59114	−0.61907282	+0.21594513

From 846 observations 2017 Aug. 18–2021 Sept. 9, mean residual 0″.6.

C/2017 X1 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2018 June 14.97280 TT Rudenko

				P	Q
q	4.6695558		(2000.0)		
n	0.00563833	ω	283.27014	−0.86112162	−0.12917895
a	31.2633714	Ω	251.13171	+0.24863064	−0.95063528
e	0.8506381	i	31.30788	−0.44345502	−0.28214422

P 175
From 98 observations 2017 Feb. 12–2019 May 4, mean residual 0″.7.

C/2017 Y2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Nov. 4.79799 TT Rudenko

				P	Q
q	4.6323287		(2000.0)		
z	−0.0001580	ω	147.89934	−0.04301838	−0.69699083
	±0.0000007	Ω	65.99425	−0.99885807	+0.01510010
e	1.0007319	i	128.41202	+0.02078410	−0.71692104

From 878 observations 2017 Dec. 24–2021 Aug. 21, mean residual 0″.5.

C/2018 A6 (Gibbs)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 July 13.77595 TT Rudenko

				P	Q
q	3.0189985		(2000.0)		
n	0.01655217	ω	264.52062	−0.16497139	+0.93042001
a	15.2486951	Ω	340.37675	+0.22220690	−0.28822044
e	0.8020159	i	77.03012	−0.96094148	−0.22637929

P 59.5
From 844 observations 2017 Apr. 3–2021 Sept. 13, mean residual 0″.6.

C/2018 F1 (Grauer)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2018 Dec. 13.52182 TT Rudenko

				P	Q
q	2.9947950		(2000.0)		
z	+0.0036655	ω	71.62620	−0.34615108	+0.93755388
	±0.0000030	Ω	177.27553	−0.86147605	−0.33209085
e	0.9890227	i	46.07692	+0.37153526	+0.10348138

From 181 observations 2017 Dec. 22–2019 Aug. 8, mean residual 0″.7.

C/2018 F4 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Dec. 4.09015 TT Rudenko

				P	Q
q	3.4408330		(2000.0)		
z	−0.0003350	ω	263.23007	−0.01399990	+0.89944022
	±0.0000009	Ω	26.51478	+0.16997902	+0.43264452
e	1.0011526	i	78.09070	−0.98534823	+0.06185470

From 374 observations 2018 Mar. 17–2021 Sept. 10, mean residual 0″.7.

C/2018 KJ$_3$ (Lemmon)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Sept. 9.76921 TT Rudenko

				P	Q
q	3.6301142		(2000.0)		
z	+0.0011307	ω	217.66627	−0.42235192	−0.59307068
	±0.0000047	Ω	91.60883	−0.57075033	+0.76150138
e	0.9958954	i	136.70517	−0.70417535	−0.26150109

From 416 observations 2018 May 17–2019 June 18, mean residual 1″.8.

C/2018 U1 (Lemmon)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Nov. 2.98546 TT Rudenko

				P	Q
q	4.9930319		(2000.0)		
z	−0.0002604	ω	180.45215	−0.25310026	−0.30192029
	±0.0000004	Ω	75.48048	−0.88460192	+0.45687420
e	1.0013004	i	108.29651	−0.39168827	−0.83672582

From 2176 observations 2018 Oct. 27–2021 Sept. 9, mean residual 0″.5.

C/2019 B3 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Jan. 20.19503 TT Rudenko

				P	Q
q	6.8231015		(2000.0)		
z	−0.0003086	ω	263.92376	−0.11663968	+0.99285744
	±0.0000022	Ω	358.43295	+0.00236550	−0.02498011
e	1.0021053	i	66.53615	−0.99317148	−0.11666230

From 126 observations 2019 Jan. 24–2021 Sept. 12, mean residual 0″.6.

C/2019 J2 (Palomar)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 July 19.75724 TT Rudenko

				P	Q
q	1.7262581		(2000.0)		
z	+0.0062576	ω	98.73574	−0.02552657	−0.90917092
	±0.0002969	Ω	25.51124	−0.65388911	−0.29930979
e	0.9891977	i	105.19040	+0.75615966	−0.28952011

From 266 observations 2019 May 9–July 26, mean residual 2″.3.

C/2019 K7 (Smith)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 June 17.07538 TT Rudenko

				P	Q
q	4.4756770		(2000.0)		
z	+0.0000141	ω	27.32551	+0.46131510	−0.44625860
	±0.0000004	Ω	307.92948	−0.88106896	−0.12868603
e	0.9999371	i	103.54208	+0.10443115	+0.88560328

From 2183 observations 2017 Oct. 8–2021 Sept. 13, mean residual 0″.6.

C/2019 K8 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 July 21.56314 TT Rudenko

				P	Q
q	3.1950072		(2000.0)		
z	+0.0004486	ω	85.39759	−0.02335132	−0.36218559
	±0.0000048	Ω	291.04763	−0.48299749	+0.82015810
e	0.9985666	i	93.21481	+0.87531031	+0.44290212

From 1163 observations 2019 May 27–2020 Feb. 26, mean residual 2″.1.

P/2019 LD$_2$ (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Apr. 2.99567 TT				
q	4.5764910		(2000.0)	**P**	**Q**
n	0.08165851	ω	122.86088	+0.53664465	+0.84380709
a	5.2618092	Ω	179.58623	−0.82570063	+0.52548239
e	0.1302438	i	11.60126	−0.17387060	+0.10889378
P	12.1				

From 380 observations 2018 May 9–2021 Sept. 1, mean residual 0″.8.

C/2019 L3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Jan. 9.66456 TT				
q	3.5544137		(2000.0)	**P**	**Q**
z	−0.0003464	ω	171.62009	−0.26060205	−0.66622411
	±0.0000004	Ω	290.78809	+0.83679764	+0.20509606
e	1.0012312	i	48.36493	+0.48151457	−0.71699445

From 2278 observations 2019 June 10–2021 Sept. 17, mean residual 0″.4.

C/2019 N1 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Dec. 1.79445 TT				
q	1.7047039		(2000.0)	**P**	**Q**
z	+0.0000747	ω	193.44342	−0.93823925	+0.25607087
	±0.0000009	Ω	13.57485	−0.14509682	+0.31927255
e	0.9998727	i	82.42825	−0.31409239	−0.91241041

From 2251 observations 2019 June 10–2021 Aug. 21, mean residual 1″.4.

A/2019 O2
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2023 Apr. 7.84958 TT				
q	9.6827298		(2000.0)	**P**	**Q**
z	+0.0174391	ω	129.66478	−0.39160321	−0.53939362
	±0.0000000	Ω	48.30393	−0.76993062	−0.25153062
e	0.8311420	i	93.28901	+0.50383902	−0.80360866
H	9.5				

From 200 observations 2019 July 24–2021 Sept. 7, mean residual 0″.4.

C/2019 O3 (Palomar)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 8.29706 TT				
q	8.8194977		(2000.0)	**P**	**Q**
z	−0.0003055	ω	60.06659	+0.25477683	−0.43692345
	±0.0000007	Ω	300.38264	−0.73836713	+0.48815888
e	1.0026947	i	89.81607	+0.62442193	+0.75551228

From 969 observations 2019 May 14–2021 Sept. 1, mean residual 0″.5.

C/2019 S4 (Lemmon)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Apr. 7.94027 TT				
q	3.4421635		(2000.0)	**P**	**Q**
z	+0.0042929	ω	71.36610	+0.17418462	−0.41771136
	±0.0000011	Ω	63.16195	−0.12900656	−0.90744547
e	0.9852230	i	92.02868	+0.97622591	−0.04538655

From 260 observations 2019 Sept. 17–2021 June 3, mean residual 0″.5.

A/2019 T1
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Jan. 14.36038 TT				
q	4.2816878		(2000.0)	**P**	**Q**
z	+0.0261206	ω	91.04446	+0.04399597	−0.99361579
	±0.0000000	Ω	6.95160	−0.81061017	−0.09628372
e	0.8881598	i	120.87029	+0.58393108	−0.05879713
H	13.0				

From 227 observations 2017 Sept. 16–2021 Aug. 12, mean residual 0″.4.

C/2019 T3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 2.84535 TT				
q	5.9465690		(2000.0)	**P**	**Q**
z	+0.0003238	ω	112.29053	+0.60558971	+0.57381969
	±0.0000006	Ω	139.52080	−0.19764445	−0.56268454
e	0.9980746	i	121.86222	+0.77084225	−0.59507736

From 1064 observations 2019 Jan. 17–2021 Sept. 18, mean residual 0″.5.

C/2019 U5 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2023 Mar. 30.18644 TT				
q	3.6227155		(2000.0)	**P**	**Q**
z	−0.0001862	ω	181.56091	−0.99906498	+0.00879596
	±0.0000007	Ω	2.64596	−0.02244186	+0.73133988
e	1.0006747	i	113.51820	−0.03695303	−0.68195646

From 1077 observations 2019 Oct. 11–2021 Sept. 15, mean residual 0″.3.

C/2020 F2 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 July 16.39706 TT				
q	8.8168471		(2000.0)	**P**	**Q**
z	−0.0004174	ω	48.37263	−0.89924482	−0.34722264
	±0.0000007	Ω	250.25643	−0.43547162	+0.76827432
e	1.0036806	i	163.57906	+0.04151165	+0.53776482

From 709 observations 2019 May 27–2021 Aug. 22, mean residual 0″.5.

C/2020 F5 (MASTER)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 24.37789 TT				
q	4.3260136		(2000.0)	**P**	**Q**
z	−0.0009792	ω	311.09559	+0.57238365	+0.80993150
	±0.0000016	Ω	350.61446	−0.28563086	+0.05059608
e	1.0042362	i	51.72064	−0.76862993	+0.58433809

From 461 observations 2020 Mar. 16–2021 Sept. 2, mean residual 0″.8.

C/2020 H6 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 1.06586 TT				
q	4.7028985		(2000.0)	**P**	**Q**
z	−0.0001648	ω	20.34685	−0.74636777	+0.37992765
	±0.0000013	Ω	213.70560	−0.65980781	−0.31493775
e	1.0007750	i	79.96369	+0.08711372	+0.86975237

From 776 observations 2020 Apr. 22–2021 Aug. 23, mean residual 0″.7.

C/2020 J1 (SONEAR)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Apr. 18.58186 TT Rudenko

				P	Q
q	3.3551428		(2000.0)		
z	−0.0000815	ω	341.75064	−0.47278886	−0.76099568
	±0.0000008	Ω	226.58190	−0.71294934	+0.03407231
e	1.0002733	i	142.29395	−0.51785513	+0.64786160

From 679 observations 2020 May 1–2021 Aug. 29, mean residual 0″.6.

C/2020 K1 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2023 May 9.13097 TT Rudenko

				P	Q
q	3.0745307		(2000.0)		
z	+0.0001149	ω	213.96285	+0.06650395	−0.03754489
	±0.0000012	Ω	94.36633	−0.53629941	+0.84132833
e	0.9996468	i	89.65447	−0.84140369	−0.53921890

From 807 observations 2020 Apr. 17–2021 Sept. 19, mean residual 0″.4.

C/2020 K5 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 June 5.57067 TT Rudenko

				P	Q
q	1.5356608		(2000.0)		
z	−0.0009822	ω	249.58843	+0.33976838	+0.19781428
	±0.0000037	Ω	86.16429	+0.00194862	+0.97748097
e	1.0015084	i	67.15157	−0.94050713	+0.07348778

From 80 observations 2020 Apr. 3–2021 May 18, mean residual 0″.7.

C/2020 K6 (Rankin)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Sept. 15.33689 TT Rudenko

				P	Q
q	5.8683786		(2000.0)		
z	−0.0005100	ω	44.28408	+0.10947182	−0.41327461
	±0.0000028	Ω	291.52607	−0.93634172	+0.26234520
e	1.0029930	i	103.64320	+0.33358672	+0.87199718

From 93 observations 2020 May 26–2021 Sept. 1, mean residual 0″.5.

C/2020 K7 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Oct. 28.88781 TT Rudenko

				P	Q
q	6.3868994		(2000.0)		
z	+0.0096728	ω	358.20176	+0.25133634	+0.82274099
	±0.0000000	Ω	286.08304	−0.88127625	−0.02328481
e	0.9382207	i	32.04584	−0.40022770	+0.56793933

From 103 observations 2020 May 30–2021 Sept. 13, mean residual 0″.5.

A/2020 M4
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Nov. 23.93208 TT Rudenko

				P	Q
q	5.9525575		(2000.0)		
z	+0.0001139	ω	104.64611	−0.42733843	−0.90160217
	±0.0000008	Ω	348.62496	−0.90348100	+0.42314838
e	0.9993222	i	160.12640	−0.03322570	+0.08977177

H 14.5
From 76 observations 2018 Aug. 9–2021 Aug. 12, mean residual 0″.3.

C/2020 M5 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Aug. 19.88253 TT Rudenko

				P	Q
q	3.0043507		(2000.0)		
z	+0.0000244	ω	126.33959	−0.59316681	−0.79328448
	±0.0000007	Ω	352.09545	−0.28629241	+0.36724563
e	0.9999266	i	93.22247	+0.75245584	−0.48562370

From 814 observations 2019 Aug. 10–2021 Sept. 11, mean residual 0″.6.

C/2020 O2 (Amaral)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Aug. 28.47089 TT Rudenko

				P	Q
q	4.8621760		(2000.0)		
z	−0.0005099	ω	10.29054	−0.17095300	+0.34090230
	±0.0000010	Ω	256.75580	−0.95795803	−0.27692332
e	1.0024793	i	71.74719	−0.23041591	+0.89838694

From 548 observations 2020 July 23–2021 Sept. 18, mean residual 0″.5.

C/2020 P3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Apr. 20.88416 TT Rudenko

				P	Q
q	6.8123487		(2000.0)		
z	+0.0001284	ω	82.24937	−0.02861412	−0.95531451
	±0.0000010	Ω	19.48511	+0.09750686	−0.29558748
e	0.9991250	i	61.88509	+0.99482342	+0.00149405

From 409 observations 2020 Aug. 9–2021 Sept. 17, mean residual 0″.5.

C/2020 PV$_6$ (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Sept. 25.98185 TT Rudenko

				P	Q
q	2.2956666		(2000.0)		
z	+0.0239155	ω	71.37456	−0.02664691	−0.91488468
	±0.0000000	Ω	329.14396	−0.90831567	+0.19043659
e	0.9450979	i	128.23928	+0.41743572	+0.35597742

From 994 observations 2020 July 21–2021 Sept. 18, mean residual 0″.8.

C/2020 R2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Feb. 24.29298 TT Rudenko

				P	Q
q	4.6922082		(2000.0)		
z	+0.0024253	ω	211.70752	+0.73947230	−0.64006741
	±0.0000022	Ω	195.09200	+0.64942177	+0.59668162
e	0.9886200	i	53.22463	−0.17729095	−0.48402971

From 155 observations 2020 Aug. 18–2021 Aug. 29, mean residual 0″.4.

C/2020 R4 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Mar. 1.93838 TT Rudenko

				P	Q
q	1.0286481		(2000.0)		
z	+0.0102678	ω	46.71406	+0.13014425	−0.97847119
	±0.0000005	Ω	323.27372	−0.96947538	−0.15944023
e	0.9894380	i	164.46320	−0.20779787	+0.13104554

From 1571 observations 2020 Aug. 29–2021 June 1, mean residual 0″.8.

C/2020 R7 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Sept. 16.23703 TT

				Rudenko	
q	2.9564667		(2000.0)	**P**	**Q**
z	+0.0001075	ω	347.82139	+0.05941619	−0.41758834
	±0.0000020	Ω	268.27999	−0.82275575	−0.53483756
e	0.9996822	i	114.89234	−0.56528108	+0.73455345

From 175 observations 2019 Dec. 3–2021 Sept. 12, mean residual 0″.4.

C/2020 S3 (Erasmus)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Dec. 12.67970 TT

				Rudenko	
q	0.3982621		(2000.0)	**P**	**Q**
z	+0.0052682	ω	349.89898	−0.83288364	+0.50264920
	±0.0000025	Ω	222.96104	−0.48111443	−0.86443170
e	0.9979019	i	19.86895	−0.27355756	−0.01008099

From 603 observations 2020 Sept. 17–2021 Aug. 29, mean residual 0″.7.

C/2020 S4 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2023 Feb. 9.51031 TT

				Rudenko	
q	3.3687159		(2000.0)	**P**	**Q**
z	+0.0000239	ω	21.04289	−0.73165638	−0.60654044
	±0.0000067	Ω	117.71508	+0.56442089	−0.79494901
e	0.9999195	i	20.57455	+0.38224077	+0.01283653

From 151 observations 2020 Sept. 16–2021 Aug. 30, mean residual 0″.4.

C/2020 U4 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Apr. 7.77411 TT

				Rudenko	
q	5.3538788		(2000.0)	**P**	**Q**
z	−0.0003904	ω	69.51876	+0.61539724	+0.76391076
	±0.0000015	Ω	120.01942	+0.61340893	−0.61889748
e	1.0020903	i	167.03679	+0.49499063	−0.18277381

From 186 observations 2019 Nov. 9–2021 Sept. 12, mean residual 0″.5.

C/2020 U5 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Apr. 27.83523 TT

				Rudenko	
q	3.7560151		(2000.0)	**P**	**Q**
z	+0.0000881	ω	75.41030	+0.04190422	+0.31891135
	±0.0000017	Ω	107.34186	−0.12773040	−0.93820390
e	0.9996693	i	97.27559	+0.99092330	−0.13442098

From 259 observations 2020 Sept. 25–2021 Sept. 16, mean residual 0″.5.

C/2020 V2 (ZTF)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2023 May 8.42053 TT

				Rudenko	
q	2.2281891		(2000.0)	**P**	**Q**
z	−0.0006186	ω	162.38510	+0.69772346	+0.59423276
	±0.0000027	Ω	212.34584	+0.53358556	−0.05844915
e	1.0013784	i	131.60106	+0.47798370	−0.80216652

From 918 observations 2020 Apr. 18–2021 Aug. 31, mean residual 0″.4.

C/2020 X4 (Leonard)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Nov. 14.94004 TT

				Rudenko	
q	5.2065000		(2000.0)	**P**	**Q**
z	+0.0230409	ω	139.96318	+0.69478587	+0.65065948
	±0.0000000	Ω	161.89817	−0.56312246	+0.22708042
e	0.8800377	i	80.51083	+0.44739881	−0.72462178

From 113 observations 2020 Dec. 14–2021 Sept. 13, mean residual 0″.6.

C/2020 Y2 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 June 17.65616 TT

				Rudenko	
q	3.1324420		(2000.0)	**P**	**Q**
z	+0.0008127	ω	266.09788	−0.14807055	+0.88685607
	±0.0000016	Ω	26.50741	+0.52167043	+0.44601949
e	0.9974544	i	101.28970	−0.84019943	+0.12063554

From 527 observations 2020 Mar. 25–2021 Aug. 16, mean residual 0″.4.

C/2020 Y3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Dec. 3.47788 TT

				Rudenko	
q	1.9992084		(2000.0)	**P**	**Q**
z	+0.0066538	ω	342.04052	−0.93975440	−0.27958285
	±0.0000071	Ω	191.42858	−0.01785644	−0.53449724
e	0.9866977	i	83.09907	−0.34138369	+0.79758769

From 388 observations 2020 Dec. 28–2021 Aug. 5, mean residual 0″.9.

C/2021 A1 (Leonard)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Jan. 3.29988 TT

				Rudenko	
q	0.6152169		(2000.0)	**P**	**Q**
z	−0.0001169	ω	225.09030	+0.63778845	+0.29154310
	±0.0000020	Ω	255.88928	+0.72787145	−0.53080555
e	1.0000719	i	132.68589	−0.25185125	−0.79576886

From 1061 observations 2020 Apr. 11–2021 Sept. 19, mean residual 0″.7.

C/2021 A2 (NEOWISE)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Jan. 22.62785 TT

				Rudenko	
q	1.4129122		(2000.0)	**P**	**Q**
z	+0.0039104	ω	338.84367	−0.62416096	+0.01418512
	±0.0000239	Ω	125.23788	+0.78037621	+0.05981440
e	0.9944749	i	106.97791	−0.03789561	+0.99810872

From 876 observations 2021 Jan. 3–May 9, mean residual 0″.9.

C/2021 A4 (NEOWISE)
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Mar. 20.03226 TT

				Rudenko	
q	1.1455136		(2000.0)	**P**	**Q**
z	+0.0232730	ω	204.66162	−0.42560760	+0.51814357
	±0.0000185	Ω	307.08411	+0.90438224	+0.21561992
e	0.9733404	i	111.57084	−0.03083724	−0.82766859

From 709 observations 2021 Jan. 3–July 7, mean residual 1″.1.

C/2021 D2 (ZTF)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Feb. 3.99218 TT				
q	2.9463269		(2000.0)	**P**	**Q**
z	−0.0003787	ω	125.03024	−0.26328818	−0.52766176
	±0.0000044	Ω	305.67629	+0.15105335	+0.80428441
e	1.0011159	i	83.83132	+0.95281804	−0.27331237

From 452 observations 2021 Feb. 19–Sept. 17, mean residual 0″.7.

C/2021 E3 (ZTF)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 June 11.94713 TT				
q	1.7773489		(2000.0)	**P**	**Q**
z	−0.0003356	ω	228.85138	−0.11553177	−0.43254577
	±0.0000060	Ω	104.45903	−0.37420325	+0.85283724
e	1.0005965	i	112.56758	−0.92012191	−0.29252829

From 573 observations 2021 Mar. 9–Sept. 19, mean residual 0″.6.

A/2021 F1
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Apr. 6.86949 TT				
q	0.9955294		(2000.0)	**P**	**Q**
z	+0.0041830	ω	146.81688	+0.70299903	+0.60125216
	±0.0000088	Ω	203.44632	+0.23481891	+0.30792187
e	0.9958357	i	107.31776	+0.67130652	−0.73734657
H	17.5				

From 131 observations 2021 Mar. 19–Aug. 9, mean residual 0″.3.

P/2021 HS (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 6.39067 TT				
q	0.7964447		(2000.0)	**P**	**Q**
n	0.11468327	ω	46.08632	+0.60621715	+0.76735038
a	4.1956830	Ω	262.39565	−0.77665882	+0.51464526
e	0.8101752	i	12.17146	−0.17117783	+0.38250968
P	8.59				

From 138 observations 2021 Apr. 10–Sept. 12, mean residual 0″.5.

C/2021 J1 (Maury-Attard)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Feb. 19.44231 TT				
q	1.7402551		(2000.0)	**P**	**Q**
n	0.00732147	ω	147.30248	+0.00076998	−0.05563279
a	26.2666064	Ω	88.31497	−0.98708803	−0.15997114
e	0.9337465	i	92.70842	+0.16017688	−0.98555275
P	135				

From 78 observations 2021 May 9–June 7, mean residual 0″.6.

C/2021 J2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 22.48354 TT				
q	4.7067160		(2000.0)	**P**	**Q**
z	+0.0086041	ω	172.06164	−0.85939563	−0.48570620
	±0.0000000	Ω	23.32988	−0.48848913	+0.87223791
e	0.9595028	i	156.20584	−0.15105472	−0.05736299

From 57 observations 2021 Mar. 20–Aug. 6, mean residual 0″.2.

P/2021 J3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 July 3.46153 TT				
q	4.9074209		(2000.0)	**P**	**Q**
n	0.03694981	ω	125.69278	−0.52126259	+0.82054183
a	8.9274596	Ω	111.24053	−0.84148164	−0.44843833
e	0.4503004	i	14.57252	−0.14210545	−0.35442090
P	26.7				

From 131 observations 2021 May 13–Aug. 28, mean residual 0″.6.

C/2021 K1 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 4.60848 TT				
q	2.4978970		(2000.0)	**P**	**Q**
n	0.02164125	ω	184.31332	+0.81943868	+0.54523821
a	12.7530616	Ω	140.90578	−0.51712980	+0.83627500
e	0.8041335	i	16.27615	−0.24717812	+0.05796046
P	45.5				

From 281 observations 2020 Apr. 20–2021 Aug. 30, mean residual 0″.3.

C/2021 K2 (MASTER)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 8.97025 TT				
q	5.4666589		(2000.0)	**P**	**Q**
z	−0.0001032	ω	343.30247	+0.25599446	−0.11515788
	±0.0000344	Ω	282.24623	−0.73603154	−0.66688237
e	1.0005639	i	100.84399	−0.62667728	+0.73621095

From 78 observations 2021 May 10–Aug. 26, mean residual 0″.5.

C/2021 K3 (Catalina)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Feb. 2.10953 TT				
q	5.2314978		(2000.0)	**P**	**Q**
z	−0.0013882	ω	181.92316	+0.39178341	−0.65539275
	±0.0003363	Ω	114.42849	−0.83438632	+0.04264246
e	1.0072626	i	134.82853	−0.38769219	−0.75408352

From 19 observations 2021 July 6–Aug. 11, mean residual 0″.4.

C/2021 L3 (Borisov)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Feb. 13.35473 TT				
q	8.4580938		(2000.0)	**P**	**Q**
z	−0.0000567	ω	91.57530	+0.02476869	−0.96684503
	±0.0000363	Ω	344.97189	−0.20783814	+0.24370235
e	1.0004792	i	78.58031	+0.97784959	+0.07628793

From 130 observations 2021 June 8–Sept. 9, mean residual 0″.6.

P/2021 L4 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 Sept. 4.30034 TT				
q	2.7895332		(2000.0)	**P**	**Q**
n	0.17503551	ω	234.65750	−0.43598026	−0.86144468
a	3.1650843	Ω	243.22490	+0.89096280	−0.37234161
e	0.1186544	i	16.96149	+0.12691138	−0.34536182
P	5.63				

From 34 observations 2021 June 2–Sept. 2, mean residual 0″.3.

P/2021 N2 (Fuls)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Nov. 12.57549 TT				
q	3.7973807		(2000.0)	**P**	**Q**
n	0.05390258	ω	177.22549	+0.77661930	−0.61173642
a	6.9405892	Ω	221.74654	+0.57354797	+0.78539810
e	0.4528734	i	13.06083	+0.26058623	+0.09449009
P	18.3				

From 154 observations 2021 June 27–Sept. 1, mean residual 0″.7.

C/2021 N3 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Aug. 16.04722 TT				
q	5.6945909		(2000.0)	**P**	**Q**
z	+0.0061016	ω	304.23816	+0.23748602	+0.95604772
	±0.0000000	Ω	337.51627	−0.67550873	+0.03532061
e	0.9652541	i	26.72337	−0.69806042	+0.29107594

From 51 observations 2021 June 13–Aug. 31, mean residual 1″.2.

C/2021 O1 (Nishimura)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 13.92855 TT				
q	0.7869900		(2000.0)	**P**	**Q**
z	−0.0002156	ω	74.45094	−0.36664861	−0.87812066
	±0.0025343	Ω	41.60868	+0.57176730	−0.47329651
e	1.0001697	i	27.57250	+0.73392844	−0.06996084

From 61 observations 2021 July 22–Aug. 5, mean residual 0″.8.

C/2021 O3 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Apr. 21.02053 TT				
q	0.2872000		(2000.0)	**P**	**Q**
z	−0.0006447	ω	299.97358	−0.56813299	−0.81235468
	±0.0000851	Ω	189.05177	+0.64651515	−0.53949862
e	1.0001852	i	56.73499	−0.50915917	+0.22140711

From 279 observations 2021 July 26–Sept. 17, mean residual 0″.5.

C/2021 P1 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 June 1.45895 TT				
q	4.3760115		(2000.0)	**P**	**Q**
z	−0.0000318	ω	40.32278	+0.76470296	−0.64436728
	±0.0000137	Ω	359.67143	+0.16291447	+0.20007809
e	1.0001391	i	51.61095	+0.62344869	+0.73807830

From 54 observations 2021 July 14–Sept. 10, mean residual 0″.2.

C/2021 P2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2023 Jan. 21.84026 TT				
q	5.0722900		(2000.0)	**P**	**Q**
z	+0.0004463	ω	76.48641	+0.64439890	−0.71739250
	±0.0000439	Ω	31.99313	−0.73502815	−0.67658810
e	0.9977363	i	150.01853	+0.21091152	−0.16606186

From 44 observations 2021 June 19–Sept. 7, mean residual 0″.3.

P/2021 P3 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 26.54102 TT				
q	2.9110099		(2000.0)	**P**	**Q**
n	0.10497375	ω	333.12773	+0.87936288	+0.47595066
a	4.4505694	Ω	358.25689	−0.31205479	+0.55408874
e	0.3459242	i	27.08998	−0.35964250	+0.68297630
P	9.39				

From 36 observations 2021 Aug. 3–15, mean residual 0″.6.

C/2021 P4 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 July 30.37981 TT				
q	1.0801503		(2000.0)	**P**	**Q**
z	+0.0032876	ω	175.83542	−0.96760547	−0.18516315
	±0.0002678	Ω	348.09678	+0.20086537	−0.15279175
e	0.9964489	i	56.31219	+0.15294692	−0.97075707

From 216 observations 2021 Aug. 10–Sept. 15, mean residual 0″.9.

C/2021 Q3 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Jan. 25.82246 TT				
q	5.2068623		(2000.0)	**P**	**Q**
z	+0.0133267	ω	114.05176	−0.09798773	−0.62933376
	±0.0000000	Ω	307.92501	+0.04898438	+0.77067182
e	0.9306095	i	77.77653	+0.99398136	−0.10001985

From 100 observations 2021 Aug. 19–Sept. 17, mean residual 0″.5.

C/2021 Q4 (Fuls)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2023 June 8.66249 TT				
q	7.5683592		(2000.0)	**P**	**Q**
z	−0.0004721	ω	146.87489	+0.84614337	+0.53010719
	±0.0000087	Ω	183.32686	−0.32054427	+0.58867461
e	1.0035730	i	71.47544	+0.42578489	−0.61028565

From 93 observations 2020 Apr. 27–2021 Sept. 1, mean residual 0″.8.

P/2021 Q5 (ATLAS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 30.34054 TT				
q	1.2327114		(2000.0)	**P**	**Q**
n	0.16992384	ω	180.80961	+0.49248080	−0.85535080
a	3.2282452	Ω	239.70067	+0.79954876	+0.51760239
e	0.6181481	i	10.72946	+0.34377964	+0.02151231
P	5.80				

From 92 observations 2021 Aug. 29–Sept. 5, mean residual 0″.6.

C/2021 Q6 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2024 Mar. 20.71958 TT				
q	8.7183202		(2000.0)	**P**	**Q**
z	+0.0001132	ω	140.76396	+0.96925065	−0.09773759
	±0.0000132	Ω	133.54383	−0.21359812	−0.78984942
e	0.9990133	i	161.84677	+0.12218441	−0.60546284

From 48 observations 2021 Jan. 2–Sept. 7, mean residual 0″.2.

P/2021 R1 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Dec. 16.32475 TT				
q	4.8860945		(2000.0)	**P**	**Q**
n	0.04001773	ω	220.19070	+0.99624828	−0.06480862
a	8.4651457	Ω	143.40390	+0.08001257	+0.94229882
e	0.4227985	i	5.52039	−0.03297490	+0.32843993
P	24.6				

From 70 observations 2020 Aug. 10–2021 Sept. 5, mean residual 0″.3.

C/2021 R2 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Dec. 31.03299 TT				
q	7.3086726		(2000.0)	**P**	**Q**
z	+0.0000180	ω	32.73740	+0.91369948	−0.35367615
	±0.0000000	Ω	16.29497	−0.27064901	−0.89699939
e	0.9998683	i	134.48821	+0.30315403	+0.26515143

From 38 observations 2021 Aug. 28–Sept. 7, mean residual 0″.5.

P/2021 R3 (PANSTARRS)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 27.26400 TT				
q	2.5255441		(2000.0)	**P**	**Q**
n	0.13410377	ω	3.04409	+0.60333439	+0.74603873
a	3.7801472	Ω	304.25418	−0.73869457	+0.38963629
e	0.3318927	i	19.93423	−0.30052944	+0.54000905
P	7.35				

From 60 observations 2021 July 9–Sept. 10, mean residual 0″.4.

P/2021 R4 (Wierzchos)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 13.42994 TT				
q	2.3285616		(2000.0)	**P**	**Q**
n	0.07334225	ω	56.39148	+0.91776177	−0.32745744
a	5.6524043	Ω	321.32605	+0.12019568	+0.76827999
e	0.5880405	i	21.07356	+0.37850539	+0.55001589
P	13.4				

From 44 observations 2021 Sept. 4–15, mean residual 0″.5.

P/2021 R5 (Rankin)
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Jan. 9.55990 TT				
q	3.3259815		(2000.0)	**P**	**Q**
n	0.09355352	ω	166.83814	+0.89091244	−0.44561626
a	4.8057660	Ω	220.00033	+0.40335464	+0.86512511
e	0.3079186	i	7.84674	+0.20875839	+0.23018404
P	10.5				

From 66 observations 2021 June 22–Sept. 11, mean residual 0″.4.

2P/Encke
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 June 26.23073 TT				
q	0.3355616		(2000.0)	**P**	**Q**
n	0.29851539	ω	186.60343	−0.94515393	−0.31455923
a	2.2173022	Ω	334.51666	+0.30824701	−0.76996491
e	0.8486622	i	11.79639	+0.10801776	−0.55516352
P	3.30				

From 2964 observations 2009 Aug. 22–2021 Aug. 31, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.00$, $A_2 = +0.0000$.

4P/Faye
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 8.82600 TT				
q	1.6188605		(2000.0)	**P**	**Q**
n	0.13180481	ω	206.99401	+0.76786858	−0.63984830
a	3.8239765	Ω	192.93163	+0.61002853	+0.74520528
e	0.5766552	i	8.00815	+0.19555827	+0.18778508
P	7.48				

From 5106 observations 1998 May 24–2021 Sept. 3, mean residual 0″.9.
Nongravitational parameters $A_1 = +0.51$, $A_2 = -0.0313$.

6P/d'Arrest
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 17.78512 TT				
q	1.3545951		(2000.0)	**P**	**Q**
n	0.15067516	ω	178.10559	+0.73308862	+0.64376815
a	3.4976387	Ω	138.93540	−0.62831984	+0.76453484
e	0.6127115	i	19.51256	−0.26037521	−0.03238904
P	6.54				

From 3003 observations 1987 Mar. 31–2021 Sept. 1, mean residual 1″.0.
Nongravitational parameters $A_1 = +0.51$, $A_2 = +0.0991$.

7P/Pons-Winnecke
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 27.11292 TT				
q	1.2342367		(2000.0)	**P**	**Q**
n	0.15623635	ω	172.59644	−0.06057374	+0.92307533
a	3.4141400	Ω	93.37531	−0.93419398	+0.08160380
e	0.6384926	i	22.36338	−0.35158560	−0.37586269
P	6.31				

From 1640 observations 1921 Apr. 28–2021 Aug. 29, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.02$, $A_2 = +0.0021$.

8P/Tuttle
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 27.73746 TT				
q	1.0260109		(2000.0)	**P**	**Q**
n	0.07228629	ω	207.48891	−0.26849333	−0.50829781
a	5.7073182	Ω	270.20409	+0.96326307	−0.13641359
e	0.8202289	i	54.91122	+0.00596537	−0.85030857
P	13.6				

From 206 observations 2008 Feb. 12–2021 Aug. 18, mean residual 0″.5.
Nongravitational parameters $A_1 = +0.47$, $A_2 = +0.2134$.

10P/Tempel
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 24.26168 TT				
q	1.4124406		(2000.0)	**P**	**Q**
n	0.18403552	ω	195.49635	+0.68068594	+0.70896268
a	3.0610349	Ω	117.80882	−0.64800933	+0.70016795
e	0.5385742	i	12.03945	−0.34168781	+0.08447937
P	5.36				

From 3926 observations 2003 Mar. 7–2021 Sept. 1, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.02$, $A_2 = +0.0004$.

15P/Finlay
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 July 13.47383 TT				
q	0.9919896		(2000.0)	**P**	**Q**
n	0.15015537	ω	347.82412	+0.99928826	−0.02521071
a	3.5057058	Ω	13.71386	+0.03587657	+0.86500450
e	0.7170357	i	6.79756	−0.01165490	+0.50113035
P	6.56				

From 1496 observations 2008 Apr. 27–2021 Sept. 1, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.22$, $A_2 = -0.0233$.

17P/Holmes
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Feb. 19.82358 TT				
q	2.0807106		(2000.0)	**P**	**Q**
n	0.14220222	ω	24.46903	+0.97547405	+0.12751832
a	3.6352291	Ω	326.62041	−0.21318604	+0.75022589
e	0.4276260	i	19.03217	+0.05479132	+0.64876821
P	6.93				

From 1870 observations 2011 Jan. 5–2021 Sept. 2, mean residual 0″.6.

19P/Borrelly
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Feb. 1.80500 TT				
q	1.3063299		(2000.0)	**P**	**Q**
n	0.14391030	ω	351.89127	+0.38690156	−0.79268709
a	3.6064075	Ω	74.26293	+0.87111755	+0.14663608
e	0.6377753	i	29.30557	+0.30242585	+0.59173055
P	6.85				

From 391 observations 2015 Jan. 11–2021 Sept. 12, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.88$, $A_2 = -0.5887$.

28P/Neujmin
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 11.87537 TT				
q	1.5782552		(2000.0)	**P**	**Q**
n	0.05349658	ω	347.40692	+0.89838876	+0.43529955
a	6.9756612	Ω	346.33234	−0.37847468	+0.69981866
e	0.7737483	i	14.31211	−0.22283300	+0.56636397
P	18.4				

From 426 observations 2017 Mar. 19–2021 Aug. 28, mean residual 0″.3.

29P/Schwassmann-Wachmann
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 Mar. 26.66262 TT				
q	5.7691448		(2000.0)	**P**	**Q**
n	0.06642071	ω	49.15125	+0.99219413	−0.03308640
a	6.0385647	Ω	312.37551	−0.03076321	+0.86941959
e	0.0446165	i	9.36679	+0.12084878	+0.49296538
P	14.8				

From 9998 observations 2018 June 18–2021 Aug. 12, mean residual 0″.6.

44P/Reinmuth
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Apr. 23.45526 TT				
q	2.1124354		(2000.0)	**P**	**Q**
n	0.13909591	ω	58.13552	+0.95985709	+0.26260934
a	3.6891513	Ω	286.48033	−0.27928583	+0.86230044
e	0.4273926	i	5.89840	−0.02595748	+0.43298301
P	7.09				

From 919 observations 2008 July 2–2021 Aug. 15, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.15$, $A_2 = -0.0648$.

47P/Ashbrook-Jackson
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2017 June 11.53618 TT				
q	2.8112448		(2000.0)	**P**	**Q**
n	0.11767914	ω	357.63608	+0.99554868	+0.09346647
a	4.1241685	Ω	356.92122	−0.08234724	+0.80007282
e	0.3183487	i	13.03934	−0.04584491	+0.59257700
P	8.38				

From 1238 observations 2012 Feb. 15–2021 Apr. 19, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.88$, $A_2 = +0.0353$.

52P/Harrington-Abell
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 5.20046 TT				
q	1.7772169		(2000.0)	**P**	**Q**
n	0.12977891	ω	139.59754	−0.44925241	−0.89066887
a	3.8636695	Ω	336.83849	+0.76705194	−0.34444052
e	0.5400184	i	10.23169	+0.45804322	−0.29676538
P	7.59				

From 1378 observations 1983 Sept. 18–2021 Aug. 31, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.08$, $A_2 = +0.0065$.

57P/du Toit-Neujmin-Delporte
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Oct. 17.42791 TT Rudenko

				P	**Q**
q	1.7201156		(2000.0)		
n	0.15406545	ω	115.26167	+0.55959080	+0.82873429
a	3.4461371	Ω	188.77764	−0.77715247	+0.52153542
e	0.5008569	i	2.85094	−0.28791002	+0.20297852
P	6.40				

From 889 observations 2015 Feb. 18–2021 Aug. 31, mean residual 0″.6.

67P/Churyumov-Gerasimenko
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Nov. 2.05227 TT Rudenko

				P	**Q**
q	1.2106434		(2000.0)		
n	0.15333186	ω	22.12357	+0.52361170	−0.85101729
a	3.4571199	Ω	36.33584	+0.77119283	+0.45349585
e	0.6498116	i	3.87134	+0.36206684	+0.26478499
P	6.43				

From 7202 observations 1995 July 3–2021 Sept. 3, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.07$, $A_2 = +0.0107$.

70P/Kojima
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Nov. 3.13614 TT Rudenko

				P	**Q**
q	2.0089705		(2000.0)		
n	0.13978581	ω	1.83707	−0.51642515	−0.85044554
a	3.6770031	Ω	119.26809	+0.78419704	−0.51669459
e	0.4536392	i	6.59818	+0.34400591	−0.09883869
P	7.05				

From 1307 observations 1970 Dec. 27–2021 Aug. 30, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.03$, $A_2 = -0.0077$.

74P/Smirnova-Chernykh
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2018 Apr. 30.35049 TT Rudenko

				P	**Q**
q	3.6897619		(2000.0)		
n	0.10949249	ω	107.37402	−0.99467691	−0.01702667
a	4.3272617	Ω	71.74369	−0.02807276	−0.90416949
e	0.1473218	i	6.14316	+0.09914517	−0.42683442
P	9.00				

From 5948 observations 1997 July 14–2021 Aug. 31, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.03$, $A_2 = -0.0058$.

81P/Wild
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Dec. 15.72541 TT Rudenko

				P	**Q**
q	1.5979933		(2000.0)		
n	0.15369152	ω	41.67844	−0.99851057	−0.03799532
a	3.4517243	Ω	136.09669	+0.02138492	−0.93277748
e	0.5370449	i	3.23678	+0.05019284	−0.35844461
P	6.41				

From 1374 observations 2014 Oct. 18–2021 Aug. 8, mean residual 0″.5.
Nongravitational parameters $A_1 = +0.10$, $A_2 = -0.1036$.

88P/Howell
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Sept. 26.56950 TT Rudenko

				P	**Q**
q	1.3530899		(2000.0)		
n	0.18013580	ω	235.89798	+0.38191440	+0.92198809
a	3.1050554	Ω	56.67988	−0.82076847	+0.37012988
e	0.5642300	i	4.38365	−0.42482997	+0.11376220
P	5.47				

From 3527 observations 2008 Dec. 30–2021 Aug. 19, mean residual 0″.8.
Nongravitational parameters $A_1 = +1.13$, $A_2 = +0.0192$.

91P/Russell
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Nov. 9.66626 TT Rudenko

				P	**Q**
q	2.6044257		(2000.0)		
n	0.12823106	ω	354.88696	−0.45623619	+0.86085452
a	3.8946990	Ω	247.80868	−0.80755945	−0.50690795
e	0.3312896	i	14.08532	−0.37375963	+0.04442779
P	7.69				

From 297 observations 2004 Mar. 18–2021 Aug. 30, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.02$, $A_2 = +0.1316$.

97P/Metcalf-Brewington
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Feb. 15.40754 TT Rudenko

				P	**Q**
q	2.5708057		(2000.0)		
n	0.09480892	ω	229.92493	+0.59039306	−0.80681828
a	4.7632488	Ω	184.07795	+0.80200511	+0.58948914
e	0.4602831	i	17.94937	+0.09068536	+0.03932953
P	10.4				

From 139 observations 2000 Sept. 1–2021 Sept. 14, mean residual 1″.1.
Nongravitational parameters $A_1 = -0.09$, $A_2 = -0.0529$.

104P/Kowal
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Jan. 11.64365 TT Rudenko

				P	**Q**
q	1.0731938		(2000.0)		
n	0.17147477	ω	227.22141	+0.26954945	−0.96191282
a	3.2087501	Ω	207.23995	+0.90998623	+0.26987612
e	0.6655415	i	5.70023	+0.31506849	+0.04348106
P	5.75				

From 175 observations 2003 Aug. 31–2021 Sept. 1, mean residual 1″.1.
Nongravitational parameters $A_1 = -0.24$, $A_2 = +0.2563$.

106P/Schuster
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Aug. 18.76214 TT Rudenko

				P	**Q**
q	1.5286308		(2000.0)		
n	0.13505942	ω	353.66105	+0.73192259	−0.63309286
a	3.7622945	Ω	48.88687	+0.63892988	+0.50918502
e	0.5936972	i	19.53740	+0.23676558	+0.58303006
P	7.30				

From 224 observations 2000 Jan. 1–2021 Sept. 16, mean residual 2″.0.
Nongravitational parameters $A_1 = +0.06$, $A_2 = +0.0090$.

108P/Ciffréo
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 10.14621 TT				
q	1.6603217		(2000.0)	**P**	**Q**
n	0.13636194	ω	354.41173	+0.70924307	−0.68825379
a	3.7382982	Ω	50.29382	+0.65423141	+0.56197914
e	0.5558616	i	11.43930	+0.26259385	+0.45878771
P	7.23				

From 1320 observations 1985 Nov. 8–2015 Mar. 14, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.29$, $A_2 = -0.0277$.

110P/Hartley
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 18.32385 TT				
q	2.4557131		(2000.0)	**P**	**Q**
n	0.14420673	ω	167.45153	−0.09122397	−0.97685349
a	3.6014635	Ω	287.53458	+0.89522460	+0.00465583
e	0.3181347	i	11.70721	+0.43617784	−0.21385878
P	6.83				

From 1557 observations 2013 Aug. 11–2021 Sept. 2, mean residual 0″.5.

113P/Spitaler
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 June 1.02978 TT				
q	2.1420223		(2000.0)	**P**	**Q**
n	0.13858528	ω	115.37677	+0.46506657	−0.88218047
a	3.6982079	Ω	306.70857	+0.77545773	+0.44625528
e	0.4207945	i	5.29369	+0.42705783	+0.15037900
P	7.11				

From 585 observations 1890 Dec. 9–2021 Sept. 13, mean residual 1″.0.
Nongravitational parameters $A_1 = +0.11$, $A_2 = -0.0018$.

114P/Wiseman-Skiff
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Jan. 14.03497 TT				
q	1.5784671		(2000.0)	**P**	**Q**
n	0.14765240	ω	172.77162	+0.10128302	−0.94417117
a	3.5452133	Ω	271.04983	+0.89635265	+0.22332003
e	0.5547610	i	18.27349	+0.43161751	−0.24221677
P	6.68				

From 2090 observations 1993 Feb. 2–2020 May 14, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.37$, $A_2 = +0.0011$.

116P/Wild
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 July 17.06009 TT				
q	2.1964792		(2000.0)	**P**	**Q**
n	0.15117400	ω	173.33643	−0.96883437	+0.24668450
a	3.4899401	Ω	20.98656	−0.23007156	−0.86244895
e	0.3706255	i	3.60355	−0.09179893	−0.44195991
P	6.52				

From 869 observations 2014 Oct. 31–2021 Aug. 28, mean residual 0″.7.

117P/Helin-Roman-Alu
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 July 7.39359 TT				
q	3.0401038		(2000.0)	**P**	**Q**
n	0.11939842	ω	222.86157	+0.19615266	+0.97198685
a	4.0844820	Ω	58.84238	−0.85374759	+0.23423903
e	0.2556942	i	8.70280	−0.48232684	−0.01932963
P	8.25				

From 3662 observations 2010 Nov. 3–2021 Aug. 25, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.01$, $A_2 = -0.0123$.

118P/Shoemaker-Levy
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Nov. 23.17054 TT				
q	1.8311818		(2000.0)	**P**	**Q**
n	0.16002813	ω	314.46988	−0.12156679	−0.98673188
a	3.3599939	Ω	142.12127	+0.95317187	−0.14630042
e	0.4550044	i	10.09474	+0.27692037	+0.07040153
P	6.16				

From 1859 observations 2002 Aug. 19–2017 May 3, mean residual 1″.2.
Nongravitational parameters $A_1 = +1.49$, $A_2 = -0.2374$.

119P/Parker-Hartley
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Aug. 11.12284 TT				
q	2.3281910		(2000.0)	**P**	**Q**
n	0.13224620	ω	321.76820	+0.39492176	−0.91022658
a	3.8154631	Ω	104.65939	+0.87142953	+0.32818570
e	0.3898012	i	7.39963	+0.29094221	+0.25255041
P	7.45				

From 1768 observations 1995 June 23–2021 Sept. 15, mean residual 1″.0.
Nongravitational parameters $A_1 = -0.47$, $A_2 = +1.1311$.

132P/Helin-Roman-Alu
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Nov. 13.09769 TT				
q	1.6917361		(2000.0)	**P**	**Q**
n	0.12856872	ω	216.34297	+0.86276046	−0.50551775
a	3.8878768	Ω	173.99811	+0.48318979	+0.81863079
e	0.5648689	i	5.38214	+0.14890267	+0.27257189
P	7.67				

From 536 observations 1989 Oct. 26–2021 Sept. 18, mean residual 0″.9.

142P/Ge-Wang
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 12.62787 TT				
q	2.5129578		(2000.0)	**P**	**Q**
n	0.08811803	ω	173.95599	+0.98463499	+0.17397502
a	5.0014146	Ω	175.93151	−0.16778577	+0.96643939
e	0.4975506	i	12.25054	−0.04839296	+0.18901747
P	11.2				

From 90 observations 1988 Oct. 11–2021 Aug. 16, mean residual 0″.9.
Nongravitational parameters $A_1 = +6.03$, $A_2 = -0.3485$.

143P/Kowal-Mrkos
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2018 May 5.31435 TT				
q	2.5228701		(2000.0)	**P**	**Q**
n	0.11123388	ω	320.39126	−0.89981319	+0.42989076
a	4.2819802	Ω	245.21861	−0.37662547	−0.85145229
e	0.4108170	i	4.69823	−0.22020328	−0.30037132
P	8.86				

From 1080 observations 1984 Apr. 23–2021 Sept. 9, mean residual 0″.5.

148P/Anderson-LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 June 13.51196 TT				
q	1.6300144		(2000.0)	**P**	**Q**
n	0.14293341	ω	7.89144	−0.12395576	−0.99023466
a	3.6228211	Ω	89.24517	+0.90688615	−0.13914780
e	0.5500704	i	3.65821	+0.40273127	+0.00855637
P	6.90				

From 189 observations 2000 Sept. 24–2021 Sept. 12, mean residual 1″.2.
Nongravitational parameters $A_1 = +0.25$, $A_2 = -0.0052$.

157P/Tritton
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Sept. 9.34602 TT				
q	1.5698092		(2000.0)	**P**	**Q**
n	0.14729190	ω	154.88961	+0.11945376	−0.97132552
a	3.5509956	Ω	287.69987	+0.87060582	+0.20200597
e	0.5579242	i	12.46135	+0.47725916	−0.12538070
P	6.69				

From 1137 observations 2009 Aug. 7–2017 July 18, mean residual 1″.1.
Nongravitational parameters $A_1 = +0.69$, $A_2 = +0.0188$.

158P/Kowal-LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 9.66558 TT				
q	4.7990949		(2000.0)	**P**	**Q**
n	0.08831299	ω	172.03519	+0.61053430	+0.78593833
a	4.9940513	Ω	135.52434	−0.73410771	+0.60789159
e	0.0390377	i	8.01755	−0.29720991	+0.11299895
P	11.2				

From 921 observations 1979 July 25–2021 Aug. 31, mean residual 0″.8.

163P/NEAT
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 Aug. 5.03429 TT				
q	2.0651338		(2000.0)	**P**	**Q**
n	0.13477577	ω	349.60945	−0.03389830	−0.97599965
a	3.7675715	Ω	102.08548	+0.93201463	−0.10858152
e	0.4518661	i	12.70865	+0.36083188	+0.18877166
P	7.31				

From 384 observations 1990 Oct. 24–2020 Mar. 17, mean residual 1″.1.

183P/Korlević-Jurić
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2017 Dec. 4.18848 TT				
q	3.9258643		(2000.0)	**P**	**Q**
n	0.10178151	ω	166.45524	−0.98663180	−0.16097687
a	4.5431471	Ω	4.51815	+0.10250960	−0.73411357
e	0.1358712	i	18.79493	+0.12668650	−0.65966940
P	9.68				

From 754 observations 1954 Feb. 26–2019 July 6, mean residual 0″.8.

186P/Garradd
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 Mar. 6.45584 TT				
q	4.3362008		(2000.0)	**P**	**Q**
n	0.08986756	ω	277.18088	−0.37340154	+0.88886653
a	4.9362911	Ω	326.63861	−0.53834331	−0.44070246
e	0.1215670	i	28.86779	−0.75548512	−0.12529024
P	11.0				

From 901 observations 1975 June 3–2020 Oct. 11, mean residual 0″.6.

191P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Mar. 20.12581 TT				
q	2.2321866		(2000.0)	**P**	**Q**
n	0.14226253	ω	284.01317	+0.91415738	−0.37572583
a	3.6342018	Ω	98.23223	+0.40514804	+0.83476621
e	0.3857835	i	8.84276	+0.01309025	+0.40248663
P	6.93				

From 771 observations 2000 Aug. 5–2021 Sept. 5, mean residual 1″.1.

193P/LINEAR-NEAT
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 25.32372 TT				
q	2.1680193		(2000.0)	**P**	**Q**
n	0.14551992	ω	8.12168	+0.95677364	+0.28021504
a	3.5797642	Ω	335.17439	−0.27617210	+0.79143000
e	0.3943681	i	10.68839	−0.09117660	+0.54324773
P	6.77				

From 541 observations 2001 Aug. 17–2021 Sept. 1, mean residual 0″.7.
Nongravitational parameters $A_1 = +1.59$, $A_2 = -0.1495$.

215P/NEAT
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2019 Nov. 18.78793 TT				
q	3.6060634		(2000.0)	**P**	**Q**
n	0.10946739	ω	262.17376	+0.73900724	+0.65598948
a	4.3279233	Ω	56.68448	−0.52278375	+0.70205391
e	0.1667913	i	10.58095	−0.42492995	+0.27712473
P	9.00				

From 862 observations 1994 Sept. 11–2021 Sept. 4, mean residual 0″.8.
Nongravitational parameters $A_1 = -0.36$, $A_2 = -1.4525$.

230P/LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Mar. 19.25086 TT				
q	1.5686007		(2000.0)	**P**	**Q**
n	0.15351437	ω	313.39123	+0.46880552	−0.84564658
a	3.4543794	Ω	107.00505	+0.86777353	+0.38700531
e	0.5459095	i	15.47506	+0.16489536	+0.36757141
P	6.42				

From 1383 observations 1997 Jan. 10–2021 Aug. 31, mean residual 0″.5.

241P/LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 July 25.82753 TT				
q	1.9174968		(2000.0)	**P**	**Q**
n	0.09044087	ω	111.42857	+0.49507674	−0.81787146
a	4.9154080	Ω	305.48314	+0.60209270	+0.56626803
e	0.6099008	i	21.10694	+0.62640515	+0.10211169
P	10.9				

From 470 observations 1999 Oct. 30–2021 Sept. 5, mean residual 0″.9.

242P/Spahr
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2025 Jan. 1.84376 TT				
q	3.9585989		(2000.0)	**P**	**Q**
n	0.07675104	ω	245.99764	+0.40120930	−0.91597822
a	5.4837782	Ω	180.41302	+0.90481917	+0.39565629
e	0.2781256	i	32.49303	−0.14259514	−0.06663327
P	12.8				

From 598 observations 1997 Oct. 29–2021 Aug. 14, mean residual 0″.8.

244P/Scotti
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Nov. 16.45371 TT				
q	3.9214856		(2000.0)	**P**	**Q**
n	0.09101807	ω	92.98455	+0.05268736	−0.99860253
a	4.8946047	Ω	353.99062	+0.89983503	+0.04926770
e	0.1988146	i	2.25937	+0.43303690	+0.01912291
P	10.8				

From 1325 observations 2000 Nov. 29–2021 Sept. 1, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.13$, $A_2 = -0.0163$.

246P/NEAT
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Feb. 22.95700 TT				
q	2.8639946		(2000.0)	**P**	**Q**
n	0.12236970	ω	176.33087	−0.25511091	+0.92842644
a	4.0180941	Ω	78.74513	−0.89398672	−0.12006357
e	0.2872256	i	15.98436	−0.36838319	−0.35158085
P	8.05				

From 4346 observations 2003 Mar. 7–2021 Aug. 17, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.69$, $A_2 = +0.4370$.

249P/LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 June 29.49858 TT				
q	0.4970073		(2000.0)	**P**	**Q**
n	0.21464059	ω	65.63389	+0.56228981	+0.81738563
a	2.7626645	Ω	239.16298	−0.80172451	+0.50170001
e	0.8200986	i	8.39407	−0.20265236	+0.28315692
P	4.59				

From 909 observations 2006 Oct. 19–2021 Jan. 18, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.00$, $A_2 = -0.0001$.

252P/LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 July 11.29817 TT				
q	1.0004987		(2000.0)	**P**	**Q**
n	0.18503578	ω	343.30132	−0.99406572	−0.10322896
a	3.0499934	Ω	190.94595	+0.10835591	−0.96750240
e	0.6719669	i	10.40977	−0.00960976	−0.23083087
P	5.33				

From 1064 observations 2016 Apr. 5–2021 Aug. 29, mean residual 0″.4.
Nongravitational parameters $A_1 = +0.84$, $A_2 = -0.7712$.

254P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Sept. 29.81708 TT				
q	3.1372399		(2000.0)	**P**	**Q**
n	0.09951276	ω	219.51489	+0.90299417	+0.10205642
a	4.6119386	Ω	129.17469	−0.10168406	+0.99454635
e	0.3197568	i	32.57264	−0.41744685	−0.02149531
P	9.90				

From 353 observations 1980 Oct. 5–2021 Sept. 17, mean residual 0″.7.

257P/Catalina
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2020 Sept. 10.72847 TT				
q	2.1426055		(2000.0)	**P**	**Q**
n	0.13508180	ω	117.65514	+0.79761908	+0.58131369
a	3.7618790	Ω	207.73411	−0.59857919	+0.79570058
e	0.4304427	i	20.22308	+0.07420752	+0.17010288
P	7.30				

From 2143 observations 2005 Apr. 17–2021 Sept. 2, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.14$, $A_2 = -0.0301$.

274P/Tombaugh-Tenagra
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Apr. 8.53842 TT				
q	2.4530915		(2000.0)	**P**	**Q**
n	0.10778038	ω	38.48650	−0.47407622	−0.83823644
a	4.3729673	Ω	81.33978	+0.72521954	−0.54529325
e	0.4390327	i	15.81742	+0.49930788	−0.00386665
P	9.14				

From 649 observations 1931 Jan. 13–2021 Aug. 19, mean residual 0″.7.

278P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Sept. 11.97400 TT

				Rudenko	
q	2.0857387		(2000.0)	**P**	**Q**
n	0.13873328	ω	238.06645	−0.28615828	+0.95768323
a	3.6955772	Ω	15.39713	−0.83510737	−0.23344882
e	0.4356122	i	6.68841	−0.46979688	−0.16835821
P	7.10				

From 514 observations 2006 May 22–2021 Aug. 31, mean residual 0″.6.

284P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Sept. 12.78727 TT

				Rudenko	
q	2.2956816		(2000.0)	**P**	**Q**
n	0.13960315	ω	202.47320	+0.96855781	+0.21790750
a	3.6802098	Ω	144.26320	−0.18532445	+0.95386575
e	0.3762090	i	11.86133	−0.16598381	+0.20653440
P	7.06				

From 2105 observations 2007 Apr. 17–2021 Sept. 1, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.04$, $A_2 = +0.0074$.

293P/Spacewatch
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Dec. 19.22857 TT

				Rudenko	
q	2.1197220		(2000.0)	**P**	**Q**
n	0.14170259	ω	41.04484	−0.48367851	−0.86155615
a	3.6437692	Ω	78.40737	+0.75628870	−0.50007895
e	0.4182612	i	9.05636	+0.44054796	−0.08741872
P	6.96				

From 463 observations 2006 Nov. 15–2021 May 5, mean residual 0″.6.

313P/Gibbs
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Apr. 15.50687 TT

				Rudenko	
q	2.4193785		(2000.0)	**P**	**Q**
n	0.17523917	ω	254.69939	+0.98294730	−0.01639216
a	3.1626315	Ω	105.97361	+0.07941110	+0.93619586
e	0.2350109	i	10.98263	−0.16585683	+0.35109630
P	5.62				

From 167 observations 2003 Sept. 22–2020 Dec. 14, mean residual 0″.7.

324P/La Sagra
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 May 5.79645 TT

				Rudenko	
q	2.6185645		(2000.0)	**P**	**Q**
n	0.18085573	ω	57.64557	+0.79214716	+0.48923172
a	3.0968099	Ω	270.60971	−0.60591221	+0.70218458
e	0.1544316	i	21.40297	+0.07330255	+0.51729020
P	5.45				

From 468 observations 2010 Aug. 12–2021 Sept. 17, mean residual 1″.0.

378P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2020 Oct. 19.60706 TT

				Rudenko	
q	3.3787599		(2000.0)	**P**	**Q**
n	0.06116134	ω	193.89747	+0.30094649	+0.89635246
a	6.3799616	Ω	94.40732	−0.84078948	+0.41048287
e	0.4704106	i	19.05748	−0.45000473	−0.16749947
P	16.1				

From 231 observations 2003 May 30–2021 Aug. 31, mean residual 0″.7.

382P/Larson
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2022 Mar. 18.26702 TT

				Rudenko	
q	4.4056441		(2000.0)	**P**	**Q**
n	0.06080443	ω	173.28963	+0.97908001	+0.20311476
a	6.4049031	Ω	174.94261	−0.19249012	+0.94387395
e	0.3121451	i	7.89819	−0.06595374	+0.26047334
P	16.2				

From 350 observations 2007 Sept. 4–2021 Aug. 30, mean residual 0″.7.

395P/Catalina-NEAT
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Dec. 30.73373 TT

				Rudenko	
q	4.0648283		(2000.0)	**P**	**Q**
n	0.05889335	ω	89.79412	+0.68779324	+0.72482931
a	6.5427235	Ω	223.75090	−0.68667815	+0.63199779
e	0.3787253	i	3.27734	−0.23540088	+0.27422848
P	16.7				

From 355 observations 2005 May 12–2021 Sept. 1, mean residual 0″.6.

401P/McNaught
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2019 Dec. 7.11108 TT

				Rudenko	
q	2.4239703		(2000.0)	**P**	**Q**
n	0.07106614	ω	309.33162	+0.63229710	+0.77472588
a	5.7724595	Ω	359.88533	−0.62499951	+0.50975861
e	0.5800801	i	12.80321	−0.45779470	+0.37409354
P	13.9				

From 270 observations 2006 Apr. 29–2020 Nov. 11, mean residual 0″.9.

402P/LINEAR
Epoch 2021 July 5.0 TT = JDT 2459400.5
T 2021 Dec. 14.61515 TT

				Rudenko	
q	3.9378443		(2000.0)	**P**	**Q**
n	0.05309540	ω	326.74248	−0.06208187	−0.90085266
a	7.0107550	Ω	123.08920	+0.99047657	−0.10861400
e	0.4383138	i	30.85275	+0.12289019	+0.42031831
P	18.6				

From 1337 observations 2001 Nov. 22–2021 Aug. 28, mean residual 0″.9.

404P/Bressi
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2023 Sept. 21.62187 TT				
q	4.1635736		(2000.0)	**P**	**Q**
n	0.09299549	ω	162.31181	+0.43231749	−0.88604777
a	4.8249719	Ω	261.79788	+0.80552855	+0.46291518
e	0.1370782	i	9.73692	+0.40524725	+0.02507743
P	10.6				

From 221 observations 2011 Oct. 24–2021 Aug. 31, mean residual 0″.4.

408P/Novichonok-Gerke
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Oct. 2.38037 TT				
q	3.4704346		(2000.0)	**P**	**Q**
n	0.09484792	ω	226.01238	+0.57356253	−0.81735627
a	4.7619428	Ω	189.45308	+0.81383159	+0.57613208
e	0.2712146	i	19.32736	+0.09329619	−0.00074556
P	10.4				

From 528 observations 2011 Sept. 7–2021 Aug. 30, mean residual 0″.7.

417P/NEOWISE
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Apr. 22.18077 TT				
q	1.4920285		(2000.0)	**P**	**Q**
n	0.16087254	ω	129.46234	−0.48042821	+0.86708490
a	3.3482260	Ω	111.35099	−0.84183710	−0.41379315
e	0.5543824	i	8.13095	−0.24596550	−0.27737882
P	6.13				

From 275 observations 2015 May 15–2021 Aug. 11, mean residual 0″.5.

419P/PANSTARRS
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 27.42483 TT				
q	2.5432788		(2000.0)	**P**	**Q**
n	0.14912893	ω	187.49188	−0.67075807	+0.74099907
a	3.5217738	Ω	40.39033	−0.67791339	−0.59520232
e	0.2778415	i	2.80279	−0.30086051	−0.31089318
P	6.61				

From 249 observations 2015 Jan. 24–2021 Aug. 3, mean residual 0″.6.

420P/Hill
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 May 22.72526 TT				
q	2.7883586		(2000.0)	**P**	**Q**
n	0.07597983	ω	157.12865	+0.87666946	+0.48037091
a	5.5208230	Ω	173.95969	−0.47098331	+0.86812870
e	0.4949379	i	14.50299	−0.09810899	+0.12488534
P	13.0				

From 187 observations 2009 Aug. 16–2021 Aug. 26, mean residual 0″.8.

422P/Christensen
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Jan. 13.88720 TT				
q	3.1052049		(2000.0)	**P**	**Q**
n	0.06208348	ω	305.14193	+0.83661291	+0.39949154
a	6.3166288	Ω	36.07632	+0.05033724	+0.62526408
e	0.5084079	i	39.53168	−0.54547685	+0.67041132
P	15.9				

From 193 observations 2006 Sept. 22–2021 Sept. 7, mean residual 1″.0.

424P/La Sagra
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Oct. 31.64440 TT				
q	1.3626191		(2000.0)	**P**	**Q**
n	0.10625336	ω	312.47594	+0.99136817	−0.05782942
a	4.4147651	Ω	51.18565	+0.10776180	+0.87059269
e	0.6913496	i	8.68548	−0.07467630	+0.48859403
P	9.28				

From 488 observations 2012 Sept. 23–2021 Aug. 31, mean residual 0″.5.

425P/Kowalski
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Sept. 20.38111 TT				
q	2.8900832		(2000.0)	**P**	**Q**
n	0.06191148	ω	200.72442	+0.63909206	−0.75595929
a	6.3283224	Ω	210.08846	+0.73946227	+0.65460395
e	0.5433097	i	16.42146	+0.21155825	−0.00438338
P	15.9				

From 148 observations 2005 Sept. 30–2021 Aug. 19, mean residual 0″.7.

428P/Gibbs
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 May 14.67631 TT				
q	1.6739846		(2000.0)	**P**	**Q**
n	0.15150245	ω	36.81426	+0.90885245	+0.39664219
a	3.4848944	Ω	299.33625	−0.40923345	+0.78801842
e	0.5196455	i	8.51514	−0.08071688	+0.47085236
P	6.51				

From 94 observations 2014 June 21–2021 Sept. 1, mean residual 0″.6.

429P/LINEAR-Hill
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Jan. 2.08560 TT				
q	1.8061214		(2000.0)	**P**	**Q**
n	0.14714188	ω	75.52029	+0.78721470	−0.61140700
a	3.5534089	Ω	322.07531	+0.50328924	+0.71237629
e	0.4917215	i	7.52253	+0.35636071	+0.34453084
P	6.70				

From 513 observations 2008 Aug. 25–2021 Aug. 17, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.73$, $A_2 = +0.0682$.

430P/Scotti
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Dec. 2.25370 TT				
q	1.5545928		(2000.0)	**P**	**Q**
n	0.18002019	ω	94.51301	−0.85638333	−0.51240130
a	3.1063847	Ω	54.67614	+0.43738748	−0.78542195
e	0.4995492	i	4.47497	+0.27440808	−0.34721358
P	5.47				

From 251 observations 2011 Jan. 11–2021 Aug. 25, mean residual 0″.7.

431P/Scotti
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2022 Feb. 13.34269 TT				
q	1.8135326		(2000.0)	**P**	**Q**
n	0.15217124	ω	199.83771	+0.74484934	−0.65062079
a	3.4746761	Ω	202.86234	+0.65198865	+0.75684140
e	0.4780715	i	22.38513	+0.14181065	−0.06231923
P	6.48				

From 372 observations 2002 Nov. 16–2016 Mar. 2, mean residual 0″.8.

432P/PANSTARRS
Epoch 2021 July 5.0 TT = JDT 2459400.5

				Rudenko	
T	2021 Aug. 30.71168 TT				
q	2.3008942		(2000.0)	**P**	**Q**
n	0.18615316	ω	105.31696	+0.95082500	+0.27093121
a	3.0377762	Ω	239.17110	−0.30544782	+0.90051689
e	0.2425728	i	10.06652	+0.05131706	+0.34009648
P	5.29				

From 27 observations 2021 July 8–Sept. 8, mean residual 0″.5.

SUMMARY OF NEW NUMBERINGS

The following summary of new numberings of minor planets lists for each object the number, principal provisional designation, date of discovery, observatory code related to the principal provisional designation (which for new-style discoveries may be different from the observatory code of the discovery site) and the names of the discoverers. A separate table lists orbital elements and absolute magnitudes (the slope parameter G being 0.15 in every case). Further details, including additional identifications and residuals, are given in the *Minor Planet Circulars Orbit Supplement*.

(585963)	2000 AS_{213}	2000 01 06	691	Spacewatch
(585964)	2000 AF_{223}	2000 01 09	691	Spacewatch
(585965)	2000 AH_{225}	2000 01 12	691	Spacewatch
(585966)	2000 AD_{250}	2000 01 05	691	Spacewatch
(585967)	2000 AS_{251}	2000 01 05	691	Spacewatch
(585968)	2000 AK_{258}	2010 10 17	691	Mount Lemmon Survey
(585969)	2000 AT_{258}	2010 11 11	691	Spacewatch
(585970)	2000 BL_{45}	2000 01 28	691	Spacewatch
(585971)	2000 BW_{52}	2005 03 11	691	Mount Lemmon Survey
(585972)	2000 BO_{53}	2000 01 28	691	Spacewatch
(585973)	2000 CF_{114}	2005 10 24	691	Mauna Kea
(585974)	2000 CO_{126}	2000 02 01	691	Spacewatch
(585975)	2000 CB_{141}	2000 02 06	691	Spacewatch
(585976)	2000 CD_{151}	2006 12 15	691	Spacewatch
(585977)	2000 CV_{152}	2000 02 04	691	Spacewatch
(585978)	2000 DW_{90}	2000 02 27	691	Spacewatch
(585979)	2000 DK_{118}	2014 02 26	691	Pan-STARRS 1
(585980)	2000 EE_{2}	2000 03 03	704	LINEAR
(585981)	2000 ES_{177}	2000 03 03	691	Spacewatch
(585982)	2000 EX_{208}	2002 11 14	807	Spacewatch
(585983)	2000 EE_{209}	2003 11 30	645	Spacewatch
(585984)	2000 FP_{52}	2000 03 29	691	Spacewatch
(585985)	2000 FG_{74}	2011 02 10	691	Mount Lemmon Survey
(585986)	2000 GY_{183}	2009 01 31	691	Spacewatch
(585987)	2000 GH_{189}	2000 04 04	645	SDSS Collaboration
(585988)	2000 HX	2000 04 24	691	Spacewatch
(585989)	2000 JP_{67}	2000 04 26	691	Spacewatch
(585990)	2000 NV_{6}	2000 07 04	691	Spacewatch
(585991)	2000 OQ_{61}	2000 07 29	807	Buie, M. W., Kern, S. D.
(585992)	2000 OE_{70}	2011 11 25	807	Pan-STARRS 1
(585993)	2000 OQ_{72}	2013 10 05	807	Mount Lemmon Survey
(585994)	2000 QX_{235}	2000 08 26	807	Millis, R. L., Wasserman, L. H.
(585995)	2000 QD_{245}	2000 08 31	807	Spacewatch
(585996)	2000 QM_{247}	2000 09 03	807	Spacewatch
(585997)	2000 QO_{250}	2000 08 20	699	LONEOS
(585998)	2000 QF_{255}	2008 01 11	807	Spacewatch
(585999)	2000 QZ_{255}	2007 08 10	I03	Spacewatch
(586000)	2000 QN_{256}	2007 03 10	807	Mount Lemmon Survey
(586001)	2000 QX_{259}	2004 11 20	807	Spacewatch
(586002)	2000 RH_{108}	2004 11 03	645	Spacewatch
(586003)	2000 RY_{108}	2016 09 28	691	Sodor, A.
(586004)	2000 RD_{109}	2011 09 24	645	Pan-STARRS 1
(586005)	2000 RW_{109}	2016 04 14	691	Pan-STARRS 1
(586006)	2000 RB_{110}	2007 01 28	645	Mount Lemmon Survey
(586007)	2000 RF_{111}	2014 02 22	645	Mount Lemmon Survey
(586008)	2000 RY_{112}	2000 09 05	645	SDSS Collaboration
(586009)	2000 SX_{21}	2000 09 24	704	LINEAR
(586010)	2000 SL_{44}	2000 09 26	704	LINEAR
(586011)	2000 SP_{58}	2000 09 24	704	Spacewatch
(586012)	2000 SJ_{377}	2005 09 01	691	Spacewatch
(586013)	2000 SQ_{377}	2003 04 04	691	Spacewatch
(586014)	2000 SB_{378}	2004 08 23	691	Spacewatch
(586015)	2000 SF_{378}	2015 04 25	699	Pan-STARRS 1
(586016)	2000 SR_{378}	2005 08 26	691	NEAT
(586017)	2000 SW_{378}	2014 02 26	695	Pan-STARRS 1
(586018)	2000 SZ_{378}	2013 11 09	645	Spacewatch
(586019)	2000 SQ_{379}	2016 09 13	691	Mount Lemmon Survey
(586020)	2000 SA_{382}	2005 08 30	695	Spacewatch
(586021)	2000 SD_{382}	2009 11 10	645	Spacewatch
(586022)	2000 SV_{382}	2000 09 26	691	Spacewatch
(586023)	2000 SO_{383}	2017 09 25	695	Pan-STARRS 1
(586024)	2000 SQ_{384}	2005 08 08	691	Cerro Tololo
(586025)	2000 SE_{385}	2015 03 28	645	Pan-STARRS 1
(586026)	2000 SM_{385}	2008 02 09	691	Mount Lemmon Survey

(586027)	2000 TT	2000 10 01	704	LINEAR
(586028)	2000 TW	2000 09 20	704	Spacewatch
(586029)	2000 TA_{1}	2000 10 01	704	LINEAR
(586030)	2000 TS_{40}	2000 10 01	704	LINEAR
(586031)	2000 TF_{44}	2000 09 26	704	AMOS
(586032)	2000 TL_{71}	2000 10 06	B18	Spacewatch
(586033)	2000 TD_{75}	2000 10 07	691	Spacewatch
(586034)	2000 TU_{75}	2005 08 27	691	NEAT
(586035)	2000 TZ_{75}	2002 02 12	645	NEAT
(586036)	2000 TL_{77}	2014 05 04	691	Pan-STARRS 1
(586037)	2000 TA_{81}	2008 02 13	691	Mount Lemmon Survey
(586038)	2000 TD_{81}	2011 04 03	691	Pan-STARRS 1
(586039)	2000 UE_{115}	2000 10 01	691	Spacewatch
(586040)	2000 UJ_{115}	2005 09 01	691	Spacewatch
(586041)	2000 VY_{20}	2000 11 01	704	Spacewatch
(586042)	2000 VR_{38}	2000 11 01	691	Spacewatch
(586043)	2000 VG_{66}	2007 09 09	691	Mount Lemmon Survey
(586044)	2000 WX_{64}	2000 11 27	691	Spacewatch
(586045)	2000 WR_{198}	2003 04 01	645	SDSS Collaboration
(586046)	2000 WS_{198}	2008 06 29	691	Siding Spring Survey
(586047)	2000 WY_{198}	2011 03 28	691	Spacewatch
(586048)	2000 WJ_{199}	2003 04 10	691	Spacewatch
(586049)	2000 WO_{199}	2002 02 13	645	SDSS Collaboration
(586050)	2000 WH_{200}	2004 06 25	645	Spacewatch
(586051)	2000 WV_{200}	2013 11 28	691	Mount Lemmon Survey
(586052)	2000 WS_{201}	2000 11 16	691	Spacewatch
(586053)	2000 WK_{202}	2004 10 20	691	CSS
(586054)	2000 WW_{202}	2008 04 01	691	Spacewatch
(586055)	2000 WF_{203}	2017 11 27	691	Mount Lemmon Survey
(586056)	2000 WJ_{203}	2007 10 07	691	Mount Lemmon Survey
(586057)	2000 XS	2000 12 01	691	Spacewatch
(586058)	2000 XX_{55}	2007 10 12	691	Mount Lemmon Survey
(586059)	2000 YR_{27}	2000 12 30	691	Spacewatch
(586060)	2000 YE_{144}	2008 04 06	691	Mount Lemmon Survey
(586061)	2000 YF_{144}	2000 12 21	691	Spacewatch
(586062)	2000 YJ_{144}	2013 12 11	691	Pan-STARRS 1
(586063)	2000 YU_{144}	2013 12 14	691	Mount Lemmon Survey
(586064)	2000 YB_{145}	2015 03 29	691	Pan-STARRS 1
(586065)	2000 YU_{145}	2015 07 12	691	Pan-STARRS 1
(586066)	2001 AQ_{54}	2011 10 26	691	Pan-STARRS 1
(586067)	2001 AR_{54}	2010 11 06	691	CSS
(586068)	2001 BS_{83}	2005 11 06	691	Spacewatch
(586069)	2001 BT_{83}	2010 10 28	691	Mount Lemmon Survey
(586070)	2001 BV_{83}	2015 01 21	691	Pan-STARRS 1
(586071)	2001 BX_{84}	2010 12 01	645	Mount Lemmon Survey
(586072)	2001 BC_{85}	2018 01 20	691	Pan-STARRS 1
(586073)	2001 CC_{50}	2007 03 10	691	Mount Lemmon Survey
(586074)	2001 CD_{50}	2012 08 11	691	Siding Spring Survey
(586075)	2001 CF_{50}	2007 02 25	691	Mount Lemmon Survey
(586076)	2001 CJ_{50}	2001 02 02	691	Spacewatch
(586077)	2001 DW_{57}	2001 02 19	691	Spacewatch
(586078)	2001 DR_{95}	2012 01 21	691	Spacewatch
(586079)	2001 DD_{112}	2005 03 11	691	Spacewatch
(586080)	2001 DF_{112}	2011 09 26	645	Mount Lemmon Survey
(586081)	2001 DG_{112}	2003 10 25	645	Spacewatch
(586082)	2001 DK_{112}	2014 01 10	645	Mount Lemmon Survey
(586083)	2001 DM_{112}	2015 01 20	645	Pan-STARRS 1
(586084)	2001 DW_{112}	2001 02 21	691	Spacewatch
(586085)	2001 DY_{112}	2012 01 30	645	Spacewatch
(586086)	2001 DE_{113}	2001 02 20	645	SDSS Collaboration
(586087)	2001 DN_{113}	2010 11 10	645	Mount Lemmon Survey
(586088)	2001 DQ_{113}	2016 10 13	645	Pan-STARRS 1
(586089)	2001 DG_{117}	2013 01 18	691	Mount Lemmon Survey
(586090)	2001 DH_{117}	2004 10 15	645	Spacewatch
(586091)	2001 DK_{117}	2001 02 24	645	AMOS
(586092)	2001 DT_{117}	2017 10 27	645	Mount Lemmon Survey
(586093)	2001 DJ_{118}	2013 03 12	645	Mount Lemmon Survey
(586094)	2001 DL_{118}	1998 11 15	645	Spacewatch
(586095)	2001 DM_{118}	2003 09 19	645	Spacewatch
(586096)	2001 DR_{118}	2014 09 18	645	Pan-STARRS 1
(586097)	2001 DP_{119}	2005 12 30	645	Spacewatch
(586098)	2001 FO_{31}	2001 03 20	691	Spacewatch
(586099)	2001 FJ_{181}	2001 03 21	691	Spacewatch
(586100)	2001 FO_{183}	2001 03 26	695	Spacewatch
(586101)	2001 FX_{197}	2003 09 17	695	Spacewatch
(586102)	2001 FX_{202}	2003 09 21	695	Spacewatch
(586103)	2001 FK_{204}	2008 11 19	695	Spacewatch
(586104)	2001 FT_{208}	2006 09 25	695	Mount Lemmon Survey
(586105)	2001 FM_{212}	2001 03 21	695	Kitt Peak
(586106)	2001 FC_{219}	2001 03 21	695	Kitt Peak
(586107)	2001 FK_{233}	2008 05 31	695	Spacewatch
(586108)	2001 FZ_{240}	2001 03 29	695	Kitt Peak
(586109)	2001 FS_{242}	2001 03 30	695	Kitt Peak
(586110)	2001 FS_{243}	2007 03 15	691	Spacewatch
(586111)	2001 FL_{245}	2003 12 16	645	Spacewatch
(586112)	2001 FC_{247}	2007 03 25	645	Mount Lemmon Survey
(586113)	2001 HK_{69}	2007 10 18	691	Mount Lemmon Survey
(586114)	2001 KL_{80}	2012 01 19	807	Pan-STARRS 1
(586115)	2001 KW_{80}	2013 12 31	807	Spacewatch
(586116)	2001 KS_{83}	2010 09 04	807	Mount Lemmon Survey
(586117)	2001 KE_{84}	2005 03 13	645	Mount Lemmon Survey
(586118)	2001 KA_{85}	2003 11 18	807	Spacewatch
(586119)	2001 KL_{87}	2015 05 11	807	Mount Lemmon Survey
(586120)	2001 KW_{87}	2014 06 24	807	Pan-STARRS 1
(586121)	2001 MQ_{31}	2008 02 09	644	Mount Lemmon Survey
(586122)	2001 PG_{42}	2001 08 12	644	NEAT
(586123)	2001 QL_{92}	2001 08 22	704	LINEAR
(586124)	2001 QL_{175}	2001 08 21	691	Spacewatch
(586125)	2001 QA_{255}	2001 08 16	699	NEAT
(586126)	2001 QO_{305}	2001 08 19	807	Cerro Tololo
(586127)	2001 QP_{335}	2012 10 23	691	Spacewatch
(586128)	2001 QV_{335}	2007 03 14	691	Spacewatch
(586129)	2001 QQ_{336}	2014 08 28	644	Pan-STARRS 1
(586130)	2001 QE_{338}	2013 02 01	691	Spacewatch

(586131)	2001 RK_{156}	2001 09 12	691	Spacewatch
(586132)	2001 RM_{157}	2014 12 21	695	Pan-STARRS 1
(586133)	2001 RS_{157}	2012 12 22	695	Pan-STARRS 1
(586134)	2001 SK_{34}	2001 05 22	704	Elliot, J. L., Wasserman, L. H.
(586135)	2001 SV_{199}	2001 09 19	704	LINEAR
(586136)	2001 SY_{213}	2001 09 19	704	LINEAR
(586137)	2001 SB_{341}	2001 09 21	704	LINEAR
(586138)	2001 SK_{341}	2001 09 21	704	LINEAR
(586139)	2001 SE_{357}	2001 09 21	691	Spacewatch
(586140)	2001 SO_{357}	2001 09 28	644	NEAT
(586141)	2001 SD_{361}	2006 08 28	291	Spacewatch
(586142)	2001 SH_{361}	2017 09 22	645	Pan-STARRS 1
(586143)	2001 SX_{362}	2001 09 22	291	Spacewatch
(586144)	2001 TK_{108}	2001 10 14	704	LINEAR
(586145)	2001 TO_{256}	2008 04 06	645	Spacewatch
(586146)	2001 TA_{265}	2001 09 18	291	Spacewatch
(586147)	2001 UV_{4}	2001 10 14	644	LINEAR
(586148)	2001 UC_{92}	2001 10 18	644	NEAT
(586149)	2001 UR_{112}	2001 10 21	704	LINEAR
(586150)	2001 UH_{200}	2001 10 21	644	LINEAR
(586151)	2001 UO_{227}	2001 11 18	644	SDSS Collaboration
(586152)	2001 UT_{232}	2001 10 26	291	Spacewatch
(586153)	2001 UX_{232}	2003 04 24	644	Spacewatch
(586154)	2001 UP_{233}	2001 10 25	645	SDSS Collaboration
(586155)	2001 UW_{234}	2006 09 18	691	Spacewatch
(586156)	2001 US_{238}	2013 10 05	691	Pan-STARRS 1
(586157)	2001 UN_{240}	2008 10 29	691	Spacewatch
(586158)	2001 VR_{134}	2005 10 24	691	Spacewatch
(586159)	2001 VX_{137}	2007 12 04	691	Mount Lemmon Survey
(586160)	2001 WA_{69}	2001 11 20	704	LINEAR
(586161)	2001 WR_{104}	2005 09 26	645	Spacewatch
(586162)	2001 XX_{12}	2001 12 09	704	LINEAR
(586163)	2001 XG_{128}	2001 12 14	704	LINEAR
(586164)	2001 XO_{147}	2001 12 14	704	LINEAR
(586165)	2001 XS_{269}	2016 10 08	645	Pan-STARRS 1
(586166)	2001 YO_{39}	2001 12 18	704	LINEAR
(586167)	2001 YM_{142}	2001 12 17	704	LINEAR
(586168)	2001 YX_{162}	2011 10 20	291	Mount Lemmon Survey
(586169)	2001 YE_{163}	2004 05 20	645	Spacewatch
(586170)	2002 AC_{7}	2002 01 09	209	Cima Ekar
(586171)	2002 AZ_{192}	2002 01 12	644	NEAT
(586172)	2002 AY_{194}	2002 01 13	691	Spacewatch
(586173)	2002 AG_{210}	2002 01 19	645	LONEOS
(586174)	2002 AX_{210}	2005 08 31	645	Spacewatch
(586175)	2002 AD_{212}	2013 03 03	645	Pan-STARRS 1
(586176)	2002 AN_{212}	2013 03 05	645	Pan-STARRS 1
(586177)	2002 AT_{215}	2011 12 28	705	Mount Lemmon Survey
(586178)	2002 AV_{215}	2009 01 30	645	Mount Lemmon Survey
(586179)	2002 AY_{215}	2016 10 06	645	Pan-STARRS 1
(586180)	2002 BZ_{32}	2011 11 25	291	Pan-STARRS 1
(586181)	2002 BS_{33}	2011 12 01	291	Pan-STARRS 1
(586182)	2002 BX_{33}	2008 02 08	291	Spacewatch
(586183)	2002 CT_{17}	2002 01 14	704	LINEAR
(586184)	2002 CH_{19}	2002 01 12	644	NEAT
(586185)	2002 CQ_{116}	2002 02 08	644	NEAT
(586186)	2002 CJ_{150}	2002 01 14	704	Spacewatch
(586187)	2002 CZ_{175}	2002 02 10	704	LINEAR
(586188)	2002 CE_{200}	2002 02 07	704	NEAT
(586189)	2002 CM_{213}	2002 02 07	704	Spacewatch
(586190)	2002 CR_{260}	2002 02 07	644	NEAT
(586191)	2002 CR_{262}	2002 02 09	695	Spacewatch
(586192)	2002 CX_{268}	2002 02 07	691	Spacewatch
(586193)	2002 CP_{296}	2002 02 10	704	LINEAR
(586194)	2002 CY_{315}	2002 02 13	645	Spacewatch
(586195)	2002 CS_{317}	2011 10 23	645	Pan-STARRS 1
(586196)	2002 CJ_{319}	2014 12 10	209	Pan-STARRS 1
(586197)	2002 CN_{319}	2011 09 28	691	Spacewatch
(586198)	2002 CQ_{323}	2008 09 07	695	CSS
(586199)	2002 CY_{323}	2017 09 17	691	Pan-STARRS 1
(586200)	2002 CZ_{325}	2009 09 28	291	Mount Lemmon Survey
(586201)	2002 CC_{326}	2011 03 13	695	Mount Lemmon Survey
(586202)	2002 CK_{326}	2016 10 09	695	Pan-STARRS 1
(586203)	2002 CN_{326}	2008 09 05	645	Spacewatch
(586204)	2002 CB_{327}	2015 04 10	691	Pan-STARRS 1
(586205)	2002 CL_{327}	2002 02 13	645	SDSS Collaboration
(586206)	2002 DF_{8}	2002 02 19	704	LINEAR
(586207)	2002 DM_{20}	2002 02 20	291	Spacewatch
(586208)	2002 DV_{20}	2002 02 16	644	NEAT
(586209)	2002 DQ_{21}	2002 02 20	291	Spacewatch
(586210)	2002 DS_{21}	2010 10 02	291	Spacewatch
(586211)	2002 DV_{21}	2013 02 07	691	Spacewatch
(586212)	2002 DA_{22}	2013 03 08	291	Pan-STARRS 1
(586213)	2002 ET_{36}	2002 03 09	691	Spacewatch
(586214)	2002 EV_{38}	2002 02 19	691	Uppsala-Kvistaberg
(586215)	2002 EB_{79}	2002 03 10	608	AMOS
(586216)	2002 EX_{81}	2002 03 13	644	NEAT
(586217)	2002 EE_{118}	2002 02 20	291	Spacewatch
(586218)	2002 EP_{119}	2002 03 10	691	Spacewatch
(586219)	2002 EN_{124}	2002 03 12	291	Spacewatch
(586220)	2002 ET_{134}	2002 03 13	644	NEAT
(586221)	2002 EO_{136}	2002 03 12	644	NEAT
(586222)	2002 EL_{155}	2002 03 05	699	LONEOS
(586223)	2002 EP_{162}	2002 03 04	291	Spacewatch
(586224)	2002 EH_{164}	2008 02 28	644	Spacewatch
(586225)	2002 EJ_{165}	2010 10 12	645	Mount Lemmon Survey
(586226)	2002 ES_{165}	2011 05 21	645	Mount Lemmon Survey
(586227)	2002 EK_{166}	2007 01 28	291	Mount Lemmon Survey
(586228)	2002 EV_{166}	2002 03 13	691	Spacewatch
(586229)	2002 EY_{166}	2002 03 13	691	Spacewatch
(586230)	2002 EL_{168}	2006 04 29	645	Spacewatch
(586231)	2002 EP_{168}	2016 01 17	645	Pan-STARRS 1
(586232)	2002 EK_{169}	2007 01 27	291	Mount Lemmon Survey
(586233)	2002 EK_{170}	2008 03 28	645	Mount Lemmon Survey
(586234)	2002 EY_{170}	2007 01 24	645	Mount Lemmon Survey

(586235)	2002 EJ_{171}	2014 06 05	645	Pan-STARRS 1
(586236)	2002 FJ_{19}	2002 03 18	695	Buie, M. W., Trilling, D. E.
(586237)	2002 FA_{31}	2002 03 21	695	NEAT
(586238)	2002 FB_{31}	2002 03 21	695	NEAT
(586239)	2002 FB_{33}	2002 02 25	704	NEAT
(586240)	2002 FE_{42}	2010 10 17	291	Mount Lemmon Survey
(586241)	2002 FF_{42}	2002 03 20	291	Spacewatch
(586242)	2002 FS_{43}	2011 04 13	691	Spacewatch
(586243)	2002 GN_{14}	2002 03 06	704	LINEAR
(586244)	2002 GZ_{26}	2002 04 04	644	NEAT
(586245)	2002 GW_{35}	2002 04 02	691	Spacewatch
(586246)	2002 GU_{43}	2002 04 04	644	NEAT
(586247)	2002 GK_{51}	2002 04 05	644	NEAT
(586248)	2002 GP_{97}	2002 04 04	691	NEAT
(586249)	2002 GO_{124}	2002 04 12	291	Spacewatch
(586250)	2002 GH_{181}	2002 04 02	644	NEAT
(586251)	2002 GU_{182}	2002 04 04	644	NEAT
(586252)	2002 GM_{184}	2002 04 08	807	Spacewatch
(586253)	2002 GF_{185}	2009 03 03	644	Mount Lemmon Survey
(586254)	2002 GA_{187}	2009 03 01	644	Spacewatch
(586255)	2002 GR_{187}	2004 09 07	644	Spacewatch
(586256)	2002 GW_{190}	2002 03 16	644	Spacewatch
(586257)	2002 GQ_{191}	2011 01 28	644	Spacewatch
(586258)	2002 GJ_{192}	2010 09 17	691	Mount Lemmon Survey
(586259)	2002 GK_{192}	2014 09 01	644	Mount Lemmon Survey
(586260)	2002 GT_{192}	2013 02 07	807	Spacewatch
(586261)	2002 GX_{192}	2012 08 06	807	Pan-STARRS 1
(586262)	2002 GY_{192}	2006 01 06	644	LONEOS
(586263)	2002 GF_{193}	2013 04 15	691	Pan-STARRS 1
(586264)	2002 GL_{194}	2013 01 20	291	Mount Lemmon Survey
(586265)	2002 GH_{195}	2003 10 23	691	Spacewatch
(586266)	2002 GM_{196}	2013 04 10	691	Pan-STARRS 1
(586267)	2002 GF_{197}	2012 09 18	807	Mount Lemmon Survey
(586268)	2002 HZ_{18}	2013 01 21	691	Pan-STARRS 1
(586269)	2002 HC_{19}	2007 03 13	691	Spacewatch
(586270)	2002 JT_{152}	2013 04 16	291	Pan-STARRS 1
(586271)	2002 KS_{17}	2012 01 27	291	Mount Lemmon Survey
(586272)	2002 KV_{17}	2002 05 18	291	Spacewatch
(586273)	2002 LM_{57}	2002 06 11	291	Spacewatch
(586274)	2002 LS_{65}	2014 11 27	644	Pan-STARRS 1
(586275)	2002 MQ_{6}	2006 05 03	644	Spacewatch
(586276)	2002 NE_{2}	2002 07 03	644	NEAT
(586277)	2002 NN_{16}	2002 06 16	704	NEAT
(586278)	2002 NB_{71}	2003 11 24	644	Kitt Peak
(586279)	2002 NW_{77}	2011 05 21	644	Mount Lemmon Survey
(586280)	2002 NZ_{78}	2006 01 23	644	Mount Lemmon Survey
(586281)	2002 NF_{82}	2007 09 20	644	CSS
(586282)	2002 OY_{19}	2002 07 22	644	NEAT
(586283)	2002 OF_{33}	2006 02 04	644	Spacewatch
(586284)	2002 ON_{35}	2010 04 12	644	Mount Lemmon Survey
(586285)	2002 OJ_{38}	2010 07 17	644	Siding Spring Survey
(586286)	2002 PX_{18}	2002 08 06	644	NEAT
(586287)	2002 PU_{158}	2002 07 29	644	NEAT
(586288)	2002 PQ_{190}	2007 10 08	644	CSS
(586289)	2002 PX_{193}	2006 05 06	644	Mount Lemmon Survey
(586290)	2002 PH_{200}	2002 08 13	644	NEAT
(586291)	2002 PQ_{200}	2010 04 15	644	Mount Lemmon Survey
(586292)	2002 PC_{202}	2005 03 08	644	Mount Lemmon Survey
(586293)	2002 PU_{202}	2002 08 19	644	NEAT
(586294)	2002 PZ_{203}	2013 12 24	807	Mount Lemmon Survey
(586295)	2002 PS_{204}	2006 05 31	291	Spacewatch
(586296)	2002 QG_{57}	2002 08 17	644	NEAT
(586297)	2002 QZ_{58}	2002 08 16	644	NEAT
(586298)	2002 QE_{63}	2002 08 17	644	NEAT
(586299)	2002 QL_{106}	2002 08 19	644	NEAT
(586300)	2002 QX_{110}	2003 11 20	644	Spacewatch
(586301)	2002 QF_{114}	2002 07 21	644	NEAT
(586302)	2002 QG_{135}	2009 02 02	644	Mount Lemmon Survey
(586303)	2002 QL_{144}	2005 04 05	644	Mount Lemmon Survey
(586304)	2002 QB_{155}	2003 12 17	644	Spacewatch
(586305)	2002 QD_{158}	2005 03 10	644	Mount Lemmon Survey
(586306)	2002 QU_{158}	2006 09 15	644	Spacewatch
(586307)	2002 QQ_{159}	2002 08 29	291	Spacewatch
(586308)	2002 RX	2002 08 14	644	NEAT
(586309)	2002 RR_{147}	2002 08 30	644	Spacewatch
(586310)	2002 RU_{182}	2002 09 11	644	NEAT
(586311)	2002 RT_{230}	2002 09 07	644	LINEAR
(586312)	2002 RO_{232}	2002 09 11	644	NEAT
(586313)	2002 RZ_{233}	2002 10 10	644	Spacewatch
(586314)	2002 RK_{274}	2005 04 11	644	Mount Lemmon Survey
(586315)	2002 RH_{284}	2005 03 16	644	Spacewatch
(586316)	2002 RH_{287}	2007 09 14	644	Mount Lemmon Survey
(586317)	2002 RS_{287}	2007 10 10	644	Spacewatch
(586318)	2002 RC_{289}	2005 06 17	644	Mount Lemmon Survey
(586319)	2002 RN_{289}	2010 08 08	644	Siding Spring Survey
(586320)	2002 RB_{291}	2002 08 12	644	AMOS
(586321)	2002 RA_{297}	2015 04 18	644	Pan-STARRS 1
(586322)	2002 SF_{18}	2002 09 28	644	NEAT
(586323)	2002 SJ_{40}	2002 09 05	608	LINEAR
(586324)	2002 SS_{59}	2002 09 16	608	AMOS
(586325)	2002 SG_{64}	2002 08 19	644	NEAT
(586326)	2002 SU_{64}	2002 08 14	644	NEAT
(586327)	2002 SF_{69}	2004 01 27	644	Spacewatch
(586328)	2002 TE_{10}	2002 10 01	608	AMOS
(586329)	2002 TU_{58}	2002 10 04	599	LINEAR
(586330)	2002 TT_{70}	2002 09 12	644	NEAT
(586331)	2002 TU_{106}	2002 10 04	644	LINEAR
(586332)	2002 TG_{109}	2002 10 02	608	AMOS
(586333)	2002 TF_{127}	2002 10 04	644	NEAT
(586334)	2002 TQ_{146}	2002 10 04	704	LINEAR
(586335)	2002 TC_{153}	2002 10 05	644	NEAT
(586336)	2002 TV_{162}	2002 10 05	644	NEAT
(586337)	2002 TD_{193}	2002 10 03	644	NEAT
(586338)	2002 TV_{212}	2002 10 08	608	NEAT

(586339)	2002 TZ_{212}	2002 10 08	608	NEAT
(586340)	2002 TP_{233}	2002 10 06	704	LINEAR
(586341)	2002 TR_{278}	2002 10 05	704	LINEAR
(586342)	2002 TQ_{388}	2002 10 10	644	NEAT
(586343)	2002 TU_{388}	2002 10 13	644	NEAT
(586344)	2002 TD_{389}	2013 08 09	644	Spacewatch
(586345)	2002 TV_{391}	2011 04 03	644	Pan-STARRS 1
(586346)	2002 TD_{393}	2014 12 21	644	Pan-STARRS 1
(586347)	2002 UW_{30}	2002 10 30	608	AMOS
(586348)	2002 UW_{34}	2002 10 31	704	LINEAR
(586349)	2002 UK_{36}	2002 10 31	644	NEAT
(586350)	2002 UJ_{80}	2011 09 04	644	Pan-STARRS 1
(586351)	2002 UO_{80}	2009 09 27	644	Mount Lemmon Survey
(586352)	2002 UX_{80}	2007 11 09	291	Spacewatch
(586353)	2002 VW_{128}	2002 11 04	291	Spacewatch
(586354)	2002 VT_{145}	2002 11 15	644	NEAT
(586355)	2002 VX_{150}	2006 11 16	291	Spacewatch
(586356)	2002 VC_{153}	2015 11 13	950	Spacewatch
(586357)	2002 WB_{2}	2002 11 23	644	NEAT
(586358)	2002 WG_{7}	2002 11 24	644	NEAT
(586359)	2002 WE_{23}	2002 11 23	644	NEAT
(586360)	2002 WY_{25}	2002 11 16	644	NEAT
(586361)	2002 WA_{29}	2002 11 14	644	NEAT
(586362)	2002 WV_{30}	2008 02 13	644	Mount Lemmon Survey
(586363)	2002 XF_{56}	2002 11 13	699	NEAT
(586364)	2002 XP_{121}	2006 12 11	644	Spacewatch
(586365)	2002 XF_{123}	2016 07 03	695	Mount Lemmon Survey
(586366)	2003 AL_{95}	2013 08 15	291	Pan-STARRS 1
(586367)	2003 BU_{3}	2003 01 24	809	Boattini, A., Hainaut, O.
(586368)	2003 BX_{94}	2003 02 07	644	NEAT
(586369)	2003 BU_{97}	2010 12 25	644	Mount Lemmon Survey
(586370)	2003 BJ_{99}	2016 05 09	645	Mount Lemmon Survey
(586371)	2003 BR_{99}	2008 11 02	645	Mount Lemmon Survey
(586372)	2003 BW_{100}	2007 12 30	645	Mount Lemmon Survey
(586373)	2003 CX_{27}	2015 07 14	645	Pan-STARRS 1
(586374)	2003 DH_{7}	2003 02 23	599	CINEOS
(586375)	2003 DU_{22}	2003 02 28	807	Cerro Tololo
(586376)	2003 EP_{10}	2003 02 09	704	AMOS
(586377)	2003 EE_{64}	2003 03 12	291	Spacewatch
(586378)	2003 ES_{64}	2003 03 11	291	Spacewatch
(586379)	2003 FO_{87}	2001 10 15	291	NEAT
(586380)	2003 FA_{102}	2003 03 26	704	NEAT
(586381)	2003 FO_{122}	2003 03 31	807	Cerro Tololo
(586382)	2003 FU_{134}	2005 10 12	644	Spacewatch
(586383)	2003 FO_{135}	2008 02 10	645	Spacewatch
(586384)	2003 FG_{136}	2004 07 16	645	Cerro Tololo
(586385)	2003 FV_{137}	1995 12 25	691	Spacewatch
(586386)	2003 FJ_{138}	2010 12 14	291	Mount Lemmon Survey
(586387)	2003 FR_{139}	2005 08 27	291	NEAT
(586388)	2003 FF_{141}	2003 03 24	691	Spacewatch
(586389)	2003 FJ_{141}	2003 03 26	691	Spacewatch
(586390)	2003 GY_{13}	2003 04 04	291	Spacewatch
(586391)	2003 GC_{39}	2003 04 09	691	Spacewatch
(586392)	2003 GR_{57}	2009 09 16	691	Spacewatch
(586393)	2003 GS_{57}	2003 04 07	691	Spacewatch
(586394)	2003 GO_{58}	2014 04 29	645	Pan-STARRS 1
(586395)	2003 GS_{58}	2013 11 27	645	Pan-STARRS 1
(586396)	2003 GW_{58}	2011 10 20	645	CSS
(586397)	2003 GE_{59}	2010 04 10	645	Mount Lemmon Survey
(586398)	2003 GT_{59}	2013 10 05	608	Pan-STARRS 1
(586399)	2003 GU_{59}	2014 07 25	691	Pan-STARRS 1
(586400)	2003 GS_{61}	2005 12 07	691	Spacewatch
(586401)	2003 GP_{64}	2003 03 25	691	NEAT
(586402)	2003 GQ_{64}	2008 02 08	645	Mount Lemmon Survey
(586403)	2003 GR_{64}	2008 02 09	695	Mount Lemmon Survey
(586404)	2003 GT_{64}	2013 10 24	691	Mount Lemmon Survey
(586405)	2003 GZ_{65}	2003 04 08	691	Spacewatch
(586406)	2003 HG_{59}	2003 04 29	691	Spacewatch
(586407)	2003 HT_{59}	2013 09 17	691	Mount Lemmon Survey
(586408)	2003 HY_{59}	2003 04 25	691	Spacewatch
(586409)	2003 HL_{60}	2015 01 25	691	Pan-STARRS 1
(586410)	2003 HR_{60}	2004 05 20	645	Spacewatch
(586411)	2003 HX_{62}	2003 04 24	691	Spacewatch
(586412)	2003 HL_{64}	2003 04 30	691	Spacewatch
(586413)	2003 JX	2003 05 01	691	Spacewatch
(586414)	2003 JV_{18}	2003 05 02	691	Spacewatch
(586415)	2003 JW_{18}	2003 05 02	691	Spacewatch
(586416)	2003 JZ_{18}	2005 09 13	691	Spacewatch
(586417)	2003 JM_{19}	2013 11 08	691	Mount Lemmon Survey
(586418)	2003 KR_{1}	2003 05 22	691	Spacewatch
(586419)	2003 KU_{1}	2003 05 22	691	Spacewatch
(586420)	2003 KV_{11}	2003 05 26	691	Spacewatch
(586421)	2003 KY_{28}	2003 05 22	691	Spacewatch
(586422)	2003 KW_{29}	2003 05 24	926	Holvorcem, P. R., Schwartz, M.
(586423)	2003 KL_{33}	2003 05 27	291	Spacewatch
(586424)	2003 KL_{38}	2014 04 29	291	Pan-STARRS 1
(586425)	2003 LT_{1}	2003 06 03	691	Spacewatch
(586426)	2003 LV_{9}	2007 01 27	691	Mount Lemmon Survey
(586427)	2003 LB_{10}	2009 09 17	807	Mount Lemmon Survey
(586428)	2003 LE_{10}	2008 10 10	291	Spacewatch
(586429)	2003 LN_{10}	2011 10 28	691	Mount Lemmon Survey
(586430)	2003 OD_{34}	2010 10 10	568	Spacewatch
(586431)	2003 QJ	2003 07 08	599	NEAT
(586432)	2003 QN_{9}	2003 08 20	599	CINEOS
(586433)	2003 QZ_{83}	2003 08 24	807	Cerro Tololo
(586434)	2003 QD_{86}	2003 08 25	807	Cerro Tololo
(586435)	2003 QS_{105}	2003 07 07	608	NEAT
(586436)	2003 QV_{120}	2003 08 26	807	Cerro Tololo
(586437)	2003 QA_{121}	2003 08 25	807	Cerro Tololo
(586438)	2003 QF_{121}	2014 09 22	568	Pan-STARRS 1
(586439)	2003 QU_{123}	2009 02 03	807	Mount Lemmon Survey
(586440)	2003 QV_{123}	2009 01 30	807	Mount Lemmon Survey
(586441)	2003 RP_{28}	2003 09 04	291	Spacewatch
(586442)	2003 SK_{29}	2003 09 18	644	NEAT

(586443)	2003 SL_{34}	2003 09 18	691	Spacewatch
(586444)	2003 SO_{35}	2003 09 18	644	NEAT
(586445)	2003 SZ_{60}	2003 08 23	704	NEAT
(586446)	2003 SK_{79}	2003 09 19	691	Spacewatch
(586447)	2003 SL_{98}	2003 09 16	691	NEAT
(586448)	2003 SN_{108}	2003 09 20	644	NEAT
(586449)	2003 SV_{133}	2003 09 18	644	NEAT
(586450)	2003 SZ_{187}	2003 09 16	699	Spacewatch
(586451)	2003 SE_{278}	2003 09 19	704	NEAT
(586452)	2003 SX_{289}	2003 09 28	699	LONEOS
(586453)	2003 SE_{332}	2003 09 28	645	LONEOS
(586454)	2003 SY_{334}	2003 09 26	645	SDSS Collaboration
(586455)	2003 SP_{335}	2003 09 26	645	SDSS Collaboration
(586456)	2003 SR_{357}	2003 09 20	691	Spacewatch
(586457)	2003 SB_{359}	2003 09 21	691	Spacewatch
(586458)	2003 SU_{361}	2003 09 22	291	Spacewatch
(586459)	2003 SW_{362}	2003 09 22	691	Spacewatch
(586460)	2003 SW_{364}	2003 09 16	645	Spacewatch
(586461)	2003 SG_{366}	2003 09 19	645	Spacewatch
(586462)	2003 SA_{368}	2003 09 26	645	SDSS Collaboration
(586463)	2003 SO_{376}	2003 09 26	645	SDSS Collaboration
(586464)	2003 SB_{379}	2003 09 26	645	SDSS Collaboration
(586465)	2003 SH_{385}	2003 09 26	645	SDSS Collaboration
(586466)	2003 SQ_{386}	2003 10 02	645	Spacewatch
(586467)	2003 SN_{390}	2003 09 26	645	SDSS Collaboration
(586468)	2003 SE_{392}	2003 09 26	645	SDSS Collaboration
(586469)	2003 SD_{394}	2003 09 26	645	SDSS Collaboration
(586470)	2003 SS_{397}	2003 09 26	645	SDSS Collaboration
(586471)	2003 SZ_{398}	2003 09 26	645	SDSS Collaboration
(586472)	2003 SK_{400}	2005 03 08	645	CSS
(586473)	2003 SY_{400}	2005 03 11	645	CSS
(586474)	2003 SH_{407}	2003 09 27	645	SDSS Collaboration
(586475)	2003 SS_{407}	2003 09 27	645	SDSS Collaboration
(586476)	2003 SL_{408}	2003 09 28	691	Spacewatch
(586477)	2003 SB_{414}	2003 09 29	645	Spacewatch
(586478)	2003 SV_{417}	2003 09 28	645	SDSS Collaboration
(586479)	2003 SK_{424}	2003 09 29	568	SDSS Collaboration
(586480)	2003 SV_{432}	2003 09 25	644	AMOS
(586481)	2003 SF_{436}	2003 09 30	691	Spacewatch
(586482)	2003 SX_{436}	2003 09 22	691	Spacewatch
(586483)	2003 SH_{437}	2008 11 17	691	Spacewatch
(586484)	2003 SL_{437}	2007 11 09	291	Mount Lemmon Survey
(586485)	2003 ST_{439}	2010 02 13	645	Mount Lemmon Survey
(586486)	2003 SB_{440}	2008 11 20	691	Mount Lemmon Survey
(586487)	2003 SD_{440}	2003 09 29	691	Spacewatch
(586488)	2003 SU_{441}	2012 02 01	691	Mount Lemmon Survey
(586489)	2003 SJ_{450}	2016 08 07	291	Pan-STARRS 1
(586490)	2003 SS_{451}	2008 10 27	291	Mount Lemmon Survey
(586491)	2003 SZ_{451}	2012 01 21	291	Spacewatch
(586492)	2003 SV_{452}	2012 02 27	691	Pan-STARRS 1
(586493)	2003 SC_{454}	2008 10 08	645	Mount Lemmon Survey
(586494)	2003 SM_{457}	2006 02 04	291	Mount Lemmon Survey
(586495)	2003 SS_{458}	2003 09 19	691	Spacewatch
(586496)	2003 SN_{459}	2003 09 30	691	Spacewatch
(586497)	2003 SP_{462}	2005 03 10	645	Mount Lemmon Survey
(586498)	2003 SF_{463}	2003 09 28	691	Spacewatch
(586499)	2003 SV_{464}	2003 09 18	691	Spacewatch
(586500)	2003 SF_{471}	2003 09 30	691	Spacewatch
(586501)	2003 TP_{8}	2003 10 02	291	Spacewatch
(586502)	2003 TV_{9}	2003 10 15	H36	Hug, G.
(586503)	2003 TU_{24}	2003 10 01	691	Spacewatch
(586504)	2003 TD_{32}	2003 09 16	691	Spacewatch
(586505)	2003 TP_{60}	2003 10 02	691	Spacewatch
(586506)	2003 TT_{60}	2014 02 18	691	Mount Lemmon Survey
(586507)	2003 TW_{60}	2003 10 01	291	Spacewatch
(586508)	2003 UF_{3}	2003 10 17	691	Spacewatch
(586509)	2003 UO_{17}	2003 10 18	691	Spacewatch
(586510)	2003 UT_{31}	2003 09 28	691	Spacewatch
(586511)	2003 UN_{33}	2003 10 01	291	Spacewatch
(586512)	2003 UW_{89}	2003 10 20	644	NEAT
(586513)	2003 UG_{95}	2003 09 28	608	LINEAR
(586514)	2003 UG_{109}	2003 10 19	644	NEAT
(586515)	2003 UO_{133}	2003 10 16	704	LONEOS
(586516)	2003 UY_{135}	2003 10 21	644	NEAT
(586517)	2003 UE_{157}	2003 09 22	291	Spacewatch
(586518)	2003 UF_{215}	2003 09 28	691	Spacewatch
(586519)	2003 US_{231}	2003 09 27	291	Spacewatch
(586520)	2003 UW_{248}	2003 10 20	291	Spacewatch
(586521)	2003 UN_{262}	2003 10 19	608	AMOS
(586522)	2003 UD_{305}	2003 10 18	691	Spacewatch
(586523)	2003 UD_{324}	2003 09 16	691	Spacewatch
(586524)	2003 UA_{334}	2003 09 29	645	Spacewatch
(586525)	2003 UZ_{347}	2005 05 11	645	Mount Lemmon Survey
(586526)	2003 UF_{355}	2003 10 19	645	SDSS Collaboration
(586527)	2003 UM_{355}	2005 05 07	645	Spacewatch
(586528)	2003 UY_{378}	2003 10 20	645	Spacewatch
(586529)	2003 UB_{379}	2003 09 27	645	Spacewatch
(586530)	2003 UF_{388}	2003 10 22	691	Spacewatch
(586531)	2003 UU_{390}	2003 10 22	645	SDSS Collaboration
(586532)	2003 UW_{406}	2005 01 13	645	Spacewatch
(586533)	2003 UR_{419}	2003 10 25	691	Spacewatch
(586534)	2003 UX_{419}	2003 10 19	645	SDSS Collaboration
(586535)	2003 UZ_{419}	2003 10 21	691	Spacewatch
(586536)	2003 UN_{420}	2012 10 10	691	Mount Lemmon Survey
(586537)	2003 UC_{421}	2005 01 16	691	Spacewatch
(586538)	2003 UK_{421}	2003 10 22	645	SDSS Collaboration
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(586540)	2003 UT_{421}	2003 10 21	691	Spacewatch
(586541)	2003 UV_{421}	2008 10 23	691	Spacewatch
(586542)	2003 UB_{422}	2003 10 22	291	Spacewatch
(586543)	2003 UJ_{422}	2003 11 19	695	Spacewatch
(586544)	2003 UU_{422}	2003 10 19	691	Spacewatch
(586545)	2003 UO_{423}	2008 12 30	691	Spacewatch
(586546)	2003 UP_{423}	2012 10 06	691	Pan-STARRS 1

(586547)	2003 UD_{424}	2003 10 17	645	SDSS Collaboration
(586548)	2003 UR_{426}	2006 04 24	691	Spacewatch
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(586550)	2003 UG_{434}	2013 10 07	691	Spacewatch
(586551)	2003 UQ_{437}	2012 10 07	691	Pan-STARRS 1
(586552)	2003 UP_{438}	2010 02 17	291	Spacewatch
(586553)	2003 UH_{439}	2014 01 28	645	Mount Lemmon Survey
(586554)	2003 UN_{439}	2015 07 25	291	Pan-STARRS 1
(586555)	2003 UD_{440}	2014 02 26	691	Pan-STARRS 1
(586556)	2003 UX_{440}	2014 01 21	691	Spacewatch
(586557)	2003 UY_{440}	2009 02 21	691	Spacewatch
(586558)	2003 UA_{441}	2003 10 20	691	Spacewatch
(586559)	2003 UO_{443}	2013 01 16	691	Pan-STARRS 1
(586560)	2003 UM_{444}	2003 10 23	291	Spacewatch
(586561)	2003 UL_{445}	2003 10 19	645	SDSS Collaboration
(586562)	2003 UO_{448}	2003 10 20	691	Spacewatch
(586563)	2003 WL_{32}	2003 11 18	691	Spacewatch
(586564)	2003 WM_{90}	2003 11 16	691	Spacewatch
(586565)	2003 WP_{129}	2003 11 21	644	NEAT
(586566)	2003 WZ_{161}	2003 11 30	691	Spacewatch
(586567)	2003 WX_{177}	2003 10 19	695	Spacewatch
(586568)	2003 WO_{187}	2003 11 02	695	Spacewatch
(586569)	2003 WD_{188}	2003 11 23	695	Kitt Peak
(586570)	2003 WF_{196}	2005 01 18	691	Spacewatch
(586571)	2003 WO_{196}	2012 02 16	691	Pan-STARRS 1
(586572)	2003 WU_{198}	2014 01 01	691	Pan-STARRS 1
(586573)	2003 WP_{199}	2003 11 30	691	Spacewatch
(586574)	2003 WF_{200}	2014 01 07	695	Spacewatch
(586575)	2003 WZ_{201}	2005 03 09	695	Mount Lemmon Survey
(586576)	2003 WS_{202}	2012 09 25	691	Spacewatch
(586577)	2003 WH_{203}	2009 04 02	695	Spacewatch
(586578)	2003 WC_{207}	2005 03 17	691	Leoni, R.
(586579)	2003 WM_{210}	2003 11 24	691	Spacewatch
(586580)	2003 WA_{211}	2012 12 08	691	Mount Lemmon Survey
(586581)	2003 WZ_{212}	2016 03 28	691	Cerro Tololo-DECam
(586582)	2003 WE_{213}	2014 01 01	291	Spacewatch
(586583)	2003 WH_{213}	2003 11 26	691	Spacewatch
(586584)	2003 WZ_{214}	2003 11 30	691	Spacewatch
(586585)	2003 XC_{34}	2003 12 01	691	Spacewatch
(586586)	2003 XN_{44}	2010 09 14	691	Mount Lemmon Survey
(586587)	2003 XY_{44}	2017 11 21	691	Mount Lemmon Survey
(586588)	2003 XN_{45}	2012 05 23	691	Mount Lemmon Survey
(586589)	2003 YL_{38}	2003 12 19	691	Spacewatch
(586590)	2003 YM_{60}	2003 12 19	691	Spacewatch
(586591)	2003 YK_{173}	2003 12 19	691	Spacewatch
(586592)	2003 YG_{183}	2004 01 15	645	Spacewatch
(586593)	2003 YL_{183}	2008 02 07	691	Spacewatch
(586594)	2003 YM_{183}	2012 11 14	691	Spacewatch
(586595)	2003 YS_{183}	2007 09 14	691	Spacewatch
(586596)	2003 YN_{184}	2007 11 03	691	Mount Lemmon Survey
(586597)	2003 YV_{186}	2007 12 19	691	Mount Lemmon Survey
(586598)	2003 YJ_{189}	2014 02 18	691	Mount Lemmon Survey
(586599)	2003 YT_{190}	2009 03 24	G96	Mount Lemmon Survey
(586600)	2004 AC_{13}	2004 01 13	691	Spacewatch
(586601)	2004 BK_{126}	2004 01 16	691	Spacewatch
(586602)	2004 BX_{130}	2004 01 16	691	Spacewatch
(586603)	2004 BN_{131}	2004 01 16	691	Spacewatch
(586604)	2004 BE_{165}	2016 08 30	645	Pan-STARRS 1
(586605)	2004 BX_{167}	2011 09 02	691	Pan-STARRS 1
(586606)	2004 BO_{169}	2007 10 30	691	Spacewatch
(586607)	2004 BN_{170}	2014 04 29	691	Pan-STARRS 1
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(586609)	2004 CG_{131}	2010 10 12	691	Mount Lemmon Survey
(586610)	2004 CR_{133}	2008 03 02	691	Spacewatch
(586611)	2004 CZ_{133}	2010 10 31	691	Spacewatch
(586612)	2004 CG_{134}	2013 11 28	691	Mount Lemmon Survey
(586613)	2004 DM_{1}	2004 02 16	691	Spacewatch
(586614)	2004 DR_{39}	2004 02 23	704	LINEAR
(586615)	2004 DK_{82}	2005 08 26	695	NEAT
(586616)	2004 DP_{85}	2008 03 31	691	Mount Lemmon Survey
(586617)	2004 DM_{87}	2007 11 03	691	Mount Lemmon Survey
(586618)	2004 DL_{89}	2004 02 16	691	Spacewatch
(586619)	2004 EO_{21}	2004 03 15	184	Demeautis, C., Matter, D.
(586620)	2004 EX_{22}	2004 03 11	644	NEAT
(586621)	2004 EG_{98}	2004 03 15	691	Spacewatch
(586622)	2004 EF_{107}	2004 03 15	691	Spacewatch
(586623)	2004 ED_{109}	2004 03 15	691	Spacewatch
(586624)	2004 EK_{114}	2004 03 09	644	NEAT
(586625)	2004 FZ_{73}	2004 03 17	691	Spacewatch
(586626)	2004 FY_{86}	2004 03 11	644	NEAT
(586627)	2004 FZ_{99}	2004 03 23	291	Spacewatch
(586628)	2004 FO_{152}	2004 03 17	691	Spacewatch
(586629)	2004 FM_{154}	2004 03 17	691	Spacewatch
(586630)	2004 FD_{168}	2016 08 29	691	Mount Lemmon Survey
(586631)	2004 FC_{169}	2013 11 27	691	Pan-STARRS 1
(586632)	2004 FP_{173}	2011 09 21	691	Pan-STARRS 1
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(586634)	2004 FC_{176}	2014 02 27	691	Pan-STARRS 1
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(586636)	2004 GU_{25}	2004 04 14	291	Spacewatch
(586637)	2004 GZ_{65}	2004 04 13	691	Spacewatch
(586638)	2004 GD_{68}	2004 04 13	691	Spacewatch
(586639)	2004 GQ_{84}	2004 04 14	291	Spacewatch
(586640)	2004 GU_{85}	2004 04 14	691	Spacewatch
(586641)	2004 GO_{90}	2007 02 23	691	Spacewatch
(586642)	2004 HR_{15}	2004 04 16	691	Spacewatch
(586643)	2004 HB_{40}	2004 04 19	691	Spacewatch
(586644)	2004 HW_{72}	2004 04 28	691	Spacewatch
(586645)	2004 HY_{72}	2004 04 28	691	Spacewatch
(586646)	2004 HE_{77}	2004 04 26	568	Mauna Kea
(586647)	2004 HX_{79}	2008 01 18	691	Mount Lemmon Survey
(586648)	2004 HY_{79}	2007 02 21	691	Mount Lemmon Survey
(586649)	2004 HA_{81}	2011 11 22	691	Mount Lemmon Survey
(586650)	2004 HD_{82}	2004 04 25	691	Spacewatch

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(586652)	2004 HA_{83}	2006 11 15	691	Mount Lemmon Survey
(586653)	2004 HO_{84}	2014 01 26	691	Pan-STARRS 1
(586654)	2004 HX_{84}	2008 09 11	691	Bickel, W.
(586655)	2004 HM_{85}	2011 09 29	G96	Mount Lemmon Survey
(586656)	2004 JJ_{49}	2004 05 13	691	Spacewatch
(586657)	2004 JB_{57}	2010 12 02	291	Mount Lemmon Survey
(586658)	2004 JP_{57}	2009 12 18	691	Spacewatch
(586659)	2004 KR_{20}	2012 04 24	691	Mount Lemmon Survey
(586660)	2004 KH_{21}	2004 05 27	291	Spacewatch
(586661)	2004 KE_{22}	2008 04 27	691	Spacewatch
(586662)	2004 LK_{26}	2004 06 12	691	Spacewatch
(586663)	2004 LF_{32}	2004 06 14	691	Spacewatch
(586664)	2004 LQ_{32}	2013 01 04	691	Spacewatch
(586665)	2004 MB_{10}	2015 08 07	691	Pan-STARRS 1
(586666)	2004 MJ_{10}	2012 04 21	691	Mount Lemmon Survey
(586667)	2004 NZ_{33}	2004 07 15	E12	Siding Spring Survey
(586668)	2004 OM_{6}	2004 07 16	704	LINEAR
(586669)	2004 OZ_{12}	2004 07 17	807	Cerro Tololo
(586670)	2004 OP_{16}	2005 12 25	807	Mount Lemmon Survey
(586671)	2004 OA_{17}	2007 03 13	807	Mount Lemmon Survey
(586672)	2004 PD_{64}	2004 08 10	704	LINEAR
(586673)	2004 PS_{70}	2004 08 08	644	NEAT
(586674)	2004 PM_{117}	2004 08 13	644	NEAT
(586675)	2004 PH_{118}	2004 08 07	644	NEAT
(586676)	2004 PK_{118}	2015 08 18	807	Spacewatch
(586677)	2004 PC_{119}	2010 10 30	644	Mount Lemmon Survey
(586678)	2004 PY_{119}	2005 10 05	807	Spacewatch
(586679)	2004 QQ_{8}	2004 07 16	E12	Siding Spring Survey
(586680)	2004 QT_{29}	2007 01 24	691	Mount Lemmon Survey
(586681)	2004 QB_{30}	1999 10 31	691	Spacewatch
(586682)	2004 QC_{30}	2013 12 12	691	Pan-STARRS 1
(586683)	2004 QG_{30}	2011 10 05	691	Sárneczky, K.
(586684)	2004 QL_{30}	2004 07 17	691	Cerro Tololo
(586685)	2004 QB_{31}	2004 08 22	691	Spacewatch
(586686)	2004 QN_{31}	2011 09 27	691	Mount Lemmon Survey
(586687)	2004 QW_{31}	2004 08 22	691	Spacewatch
(586688)	2004 QC_{32}	2004 08 22	691	Spacewatch
(586689)	2004 QM_{33}	2013 03 05	691	Pan-STARRS 1
(586690)	2004 RW_{3}	2004 08 08	644	NEAT
(586691)	2004 RS_{6}	2004 08 21	644	Siding Spring Survey
(586692)	2004 RN_{10}	2004 07 14	704	Siding Spring Survey
(586693)	2004 RU_{24}	2002 03 13	691	Spacewatch
(586694)	2004 RN_{40}	2004 09 07	691	Spacewatch
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(586696)	2004 RT_{115}	2004 09 07	691	Spacewatch
(586697)	2004 RQ_{120}	2004 09 07	691	Spacewatch
(586698)	2004 RT_{123}	2004 09 07	644	NEAT
(586699)	2004 RN_{126}	2004 09 07	691	Spacewatch
(586700)	2004 RM_{128}	2004 09 07	691	Spacewatch
(586701)	2004 RA_{134}	2004 09 07	691	Spacewatch
(586702)	2004 RF_{134}	2004 08 15	691	Cerro Tololo
(586703)	2004 RB_{139}	2004 09 08	644	NEAT
(586704)	2004 RH_{143}	2004 08 10	644	NEAT
(586705)	2004 RC_{148}	2004 09 08	704	LINEAR
(586706)	2004 RL_{156}	2004 09 10	704	LINEAR
(586707)	2004 RX_{168}	2004 09 08	705	Barentine, J. C.
(586708)	2004 RE_{172}	2006 01 23	705	Spacewatch
(586709)	2004 RH_{173}	2004 09 09	691	Spacewatch
(586710)	2004 RU_{173}	2004 08 13	704	NEAT
(586711)	2004 RA_{175}	2004 07 10	704	NEAT
(586712)	2004 RQ_{199}	2004 09 10	691	Spacewatch
(586713)	2004 RA_{205}	2004 09 07	644	NEAT
(586714)	2004 RC_{210}	2004 09 11	704	LINEAR
(586715)	2004 RQ_{239}	2004 09 10	691	Spacewatch
(586716)	2004 RJ_{240}	2003 05 06	691	Spacewatch
(586717)	2004 RG_{241}	2004 09 10	691	Spacewatch
(586718)	2004 RA_{247}	2004 09 11	704	LINEAR
(586719)	2004 RG_{247}	2004 09 11	691	Spacewatch
(586720)	2004 RJ_{260}	2004 09 10	691	Spacewatch
(586721)	2004 RV_{262}	2004 09 10	691	Spacewatch
(586722)	2004 RG_{263}	2004 09 10	691	Spacewatch
(586723)	2004 RV_{273}	2004 09 11	691	Spacewatch
(586724)	2004 RT_{282}	2004 09 15	691	Spacewatch
(586725)	2004 RF_{287}	2004 09 11	691	Spacewatch
(586726)	2004 RO_{290}	2004 09 08	704	LINEAR
(586727)	2004 RK_{294}	2004 09 11	691	Spacewatch
(586728)	2004 RW_{298}	2004 09 11	691	Spacewatch
(586729)	2004 RH_{302}	2004 09 11	691	Spacewatch
(586730)	2004 RP_{308}	2004 09 13	704	LINEAR
(586731)	2004 RK_{331}	2004 09 15	691	Spacewatch
(586732)	2004 RZ_{336}	2004 09 15	691	Spacewatch
(586733)	2004 RJ_{338}	2004 09 15	691	Spacewatch
(586734)	2004 RK_{351}	2004 09 11	691	Spacewatch
(586735)	2004 RT_{357}	2011 12 29	691	Mount Lemmon Survey
(586736)	2004 RF_{358}	2010 11 13	691	Mount Lemmon Survey
(586737)	2004 RG_{358}	2012 02 03	691	Pan-STARRS 1
(586738)	2004 RL_{358}	2008 03 26	691	Mount Lemmon Survey
(586739)	2004 RM_{358}	2013 03 05	691	Pan-STARRS 1
(586740)	2004 RG_{359}	2008 09 23	291	Mount Lemmon Survey
(586741)	2004 RT_{359}	2005 10 25	E12	Mount Lemmon Survey
(586742)	2004 RU_{360}	2014 05 04	691	Pan-STARRS 1
(586743)	2004 RD_{362}	2004 09 11	691	Spacewatch
(586744)	2004 RX_{363}	2004 08 13	691	Cerro Tololo
(586745)	2004 RE_{366}	2004 09 09	691	Spacewatch
(586746)	2004 SJ_{28}	2004 07 17	691	Cerro Tololo
(586747)	2004 SG_{37}	2004 09 17	691	Spacewatch
(586748)	2004 SH_{46}	2004 09 10	704	Spacewatch
(586749)	2004 SW_{59}	2004 09 18	704	LINEAR
(586750)	2004 SM_{61}	2004 09 18	704	LINEAR
(586751)	2004 SX_{61}	2004 09 22	691	Spacewatch
(586752)	2004 SA_{63}	2015 08 21	691	Pan-STARRS 1
(586753)	2004 SD_{63}	2013 12 31	291	Spacewatch
(586754)	2004 SQ_{64}	2006 02 01	691	Spacewatch

(586755)	2004 SF_{65}	2004 09 24	291	Spacewatch
(586756)	2004 SJ_{65}	2009 09 16	691	Mount Lemmon Survey
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(586758)	2004 TR	2004 09 18	699	LINEAR
(586759)	2004 TT_{4}	2004 10 04	691	Spacewatch
(586760)	2004 TM_{14}	2004 10 10	704	LINEAR
(586761)	2004 TQ_{18}	2004 09 08	683	LINEAR
(586762)	2004 TG_{23}	2004 10 04	691	Spacewatch
(586763)	2004 TP_{66}	2004 10 05	699	LONEOS
(586764)	2004 TW_{78}	2004 10 04	291	Spacewatch
(586765)	2004 TX_{92}	2004 10 05	691	Spacewatch
(586766)	2004 TT_{141}	2004 10 04	691	Spacewatch
(586767)	2004 TC_{147}	2004 10 06	691	Spacewatch
(586768)	2004 TP_{152}	2004 10 06	691	Spacewatch
(586769)	2004 TH_{155}	2004 09 23	691	Spacewatch
(586770)	2004 TE_{162}	2004 10 06	691	Spacewatch
(586771)	2004 TD_{165}	2004 10 07	691	Spacewatch
(586772)	2004 TQ_{193}	2004 10 07	691	Spacewatch
(586773)	2004 TA_{201}	2004 10 07	691	Spacewatch
(586774)	2004 TG_{218}	2004 10 05	691	Spacewatch
(586775)	2004 TH_{220}	2004 10 05	649	Trentman, R.
(586776)	2004 TV_{224}	2004 10 08	691	Spacewatch
(586777)	2004 TM_{227}	2004 10 08	691	Spacewatch
(586778)	2004 TL_{232}	2004 10 08	691	Spacewatch
(586779)	2004 TK_{234}	2004 10 08	691	Spacewatch
(586780)	2004 TX_{236}	2004 10 09	291	Spacewatch
(586781)	2004 TO_{250}	2004 10 08	644	NEAT
(586782)	2004 TW_{253}	2004 10 09	691	Spacewatch
(586783)	2004 TG_{261}	2004 10 09	691	Spacewatch
(586784)	2004 TR_{273}	2004 10 09	691	Spacewatch
(586785)	2004 TQ_{279}	2004 09 17	291	Spacewatch
(586786)	2004 TO_{284}	2004 09 22	691	Spacewatch
(586787)	2004 TM_{288}	2004 10 10	691	Spacewatch
(586788)	2004 TZ_{303}	2004 10 10	691	Spacewatch
(586789)	2004 TY_{304}	2004 10 10	691	Spacewatch
(586790)	2004 TQ_{305}	2004 10 10	691	Spacewatch
(586791)	2004 TB_{317}	2004 10 11	691	Spacewatch
(586792)	2004 TU_{319}	2004 10 11	691	Spacewatch
(586793)	2004 TJ_{329}	2004 10 08	691	Spacewatch
(586794)	2004 TK_{329}	2004 10 08	691	Spacewatch
(586795)	2004 TQ_{335}	2004 10 10	691	Spacewatch
(586796)	2004 TZ_{349}	2004 08 23	691	Spacewatch
(586797)	2004 TK_{352}	2004 10 11	695	Wasserman, L. H., Lovering, J. R.
(586798)	2004 TO_{372}	2009 10 18	644	Mount Lemmon Survey
(586799)	2004 TR_{373}	2008 07 30	691	Spacewatch
(586800)	2004 TS_{374}	2006 05 03	691	Mount Lemmon Survey
(586801)	2004 TM_{375}	2014 05 07	691	Pan-STARRS 1
(586802)	2004 TQ_{375}	2008 07 08	691	Mount Lemmon Survey
(586803)	2004 TP_{376}	2013 02 09	691	Pan-STARRS 1
(586804)	2004 TY_{376}	2008 09 06	691	Mount Lemmon Survey
(586805)	2004 TK_{380}	2015 02 16	695	Pan-STARRS 1
(586806)	2004 TH_{382}	2004 10 06	691	Spacewatch
(586807)	2004 TX_{382}	2013 03 13	691	Pan-STARRS 1
(586808)	2004 TH_{384}	2009 10 24	695	Spacewatch
(586809)	2004 TY_{384}	2004 10 10	695	Wasserman, L. H., Lovering, J. R.
(586810)	2004 TE_{385}	2004 10 15	G96	Mount Lemmon Survey
(586811)	2004 UE_{6}	2004 10 20	704	LINEAR
(586812)	2004 VP_{23}	2004 11 05	644	NEAT
(586813)	2004 VZ_{29}	2004 10 23	691	Spacewatch
(586814)	2004 VD_{33}	2004 11 03	691	Spacewatch
(586815)	2004 VU_{36}	2004 11 04	691	Spacewatch
(586816)	2004 VA_{47}	2004 11 04	691	Spacewatch
(586817)	2004 VS_{47}	2004 11 04	691	Spacewatch
(586818)	2004 VU_{49}	2004 11 04	691	Spacewatch
(586819)	2004 VX_{54}	2005 10 24	691	Mauna Kea
(586820)	2004 VD_{64}	2004 11 07	735	Needville
(586821)	2004 VT_{94}	2004 11 10	691	Spacewatch
(586822)	2004 VS_{103}	2004 11 09	568	Mauna Kea
(586823)	2004 VF_{105}	2004 11 09	568	Mauna Kea
(586824)	2004 VR_{105}	2004 11 09	568	Mauna Kea
(586825)	2004 VC_{107}	2004 11 03	568	Spacewatch
(586826)	2004 VN_{111}	2004 11 04	703	CSS
(586827)	2004 VL_{129}	2004 10 15	691	Buie, M. W., Trilling, D. E.
(586828)	2004 VH_{132}	2010 11 06	691	Mount Lemmon Survey
(586829)	2004 VO_{133}	2003 05 22	291	Spacewatch
(586830)	2004 VC_{135}	2008 10 06	691	Spacewatch
(586831)	2004 VM_{135}	2017 09 24	691	Pan-STARRS 1
(586832)	2004 VH_{136}	2008 09 23	691	Mount Lemmon Survey
(586833)	2004 VP_{136}	2018 01 23	695	Mount Lemmon Survey
(586834)	2004 VB_{138}	2004 11 04	691	Spacewatch
(586835)	2004 WQ_{13}	2008 09 30	691	Mount Lemmon Survey
(586836)	2004 XP_{7}	2004 12 02	644	NEAT
(586837)	2004 XY_{32}	2004 12 02	704	NEAT
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(589969) 2010 XZ_{69} 2006 08 20 H15 NEAT
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(589971) 2010 XB_{91} 2010 11 02 G96 Mount Lemmon Survey
(589972) 2010 XK_{96} 2012 01 26 G96 Mount Lemmon Survey
(589973) 2010 XP_{104} 2015 07 25 F51 Pan-STARRS 1
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(589975) 2010 XW_{110} 2010 12 09 691 Spacewatch
(589976) 2010 XC_{111} 2010 12 02 G96 Mount Lemmon Survey
(589977) 2010 XB_{113} 2010 12 05 G96 Mount Lemmon Survey
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(589983)	2011 AS_{16}	2010 12 02	G96	Elenin, L.
(589984)	2011 AU_{16}	2010 11 01	G96	Spacewatch
(589985)	2011 AM_{17}	2010 10 17	G96	Mount Lemmon Survey
(589986)	2011 AD_{18}	2004 10 13	291	Spacewatch
(589987)	2011 AX_{28}	2002 11 07	703	Spacewatch
(589988)	2011 AJ_{58}	2011 01 12	J04	ESA OGS
(589989)	2011 AY_{70}	2006 12 13	G96	Spacewatch
(589990)	2011 AP_{81}	2011 01 13	691	Spacewatch
(589991)	2011 AH_{89}	2011 01 10	691	Spacewatch
(589992)	2011 AV_{91}	2013 08 12	G96	Pan-STARRS 1
(589993)	2011 AR_{92}	2013 10 12	G96	Mount Lemmon Survey
(589994)	2011 AU_{92}	2011 01 14	G96	Mount Lemmon Survey
(589995)	2011 AV_{98}	2011 01 12	G96	Mount Lemmon Survey
(589996)	2011 BA_{16}	2011 01 24	G53	Levin, K.
(589997)	2011 BS_{16}	2011 01 24	691	Spacewatch
(589998)	2011 BU_{17}	2011 01 25	691	Spacewatch
(589999)	2011 BA_{29}	2004 08 23	G96	Spacewatch
(590000)	2011 BU_{31}	2004 08 21	G96	Siding Spring Survey
(590001)	2011 BR_{45}	2004 08 23	G96	Spacewatch
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(590003)	2011 BX_{58}	2011 01 30	G96	Mount Lemmon Survey
(590004)	2011 BY_{61}	2008 04 15	G96	Spacewatch
(590005)	2011 BR_{63}	2007 03 16	691	Spacewatch
(590006)	2011 BL_{64}	2005 08 30	691	NEAT
(590007)	2011 BZ_{69}	2009 08 29	G96	Spacewatch
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(590011)	2011 BG_{117}	2007 01 10	G96	Spacewatch
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(590013)	2011 BY_{129}	2005 08 06	G96	NEAT
(590014)	2011 BF_{142}	2003 02 23	G96	Spacewatch
(590015)	2011 BG_{149}	2008 03 29	G96	Spacewatch
(590016)	2011 BQ_{157}	2009 09 25	G96	Mount Lemmon Survey
(590017)	2011 BL_{163}	2007 01 27	G96	Mount Lemmon Survey
(590018)	2011 BC_{168}	2007 02 26	F51	Mount Lemmon Survey
(590019)	2011 BQ_{185}	2017 01 02	F51	Pan-STARRS 1
(590020)	2011 BU_{185}	2016 04 12	F51	Pan-STARRS 1
(590021)	2011 BZ_{187}	2015 12 21	F51	Mount Lemmon Survey
(590022)	2011 BP_{188}	2012 03 27	G96	Mount Lemmon Survey
(590023)	2011 BC_{195}	2011 01 23	G96	Mount Lemmon Survey
(590024)	2011 BU_{197}	2011 01 26	G96	Mount Lemmon Survey
(590025)	2011 BU_{201}	2011 01 23	G96	Mount Lemmon Survey
(590026)	2011 BZ_{202}	2011 01 29	691	Spacewatch
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(590028)	2011 CY_{22}	2007 02 22	461	Spacewatch
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(590031)	2011 CY_{96}	2011 02 05	F51	Pan-STARRS 1
(590032)	2011 CE_{99}	2005 03 08	F51	Mount Lemmon Survey
(590033)	2011 CU_{114}	2011 02 10	F51	Mount Lemmon Survey
(590034)	2011 CO_{121}	2011 02 26	F51	Mount Lemmon Survey
(590035)	2011 CH_{122}	2011 02 09	G96	Mount Lemmon Survey
(590036)	2011 CO_{123}	2013 08 04	G96	Pan-STARRS 1
(590037)	2011 CX_{129}	2007 02 16	G96	Mount Lemmon Survey
(590038)	2011 CJ_{133}	2015 08 21	F51	Pan-STARRS 1
(590039)	2011 CN_{133}	2011 02 05	F51	Pan-STARRS 1
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(590041)	2011 DR_{11}	2011 02 22	691	Spacewatch
(590042)	2011 DQ_{17}	2011 02 26	G96	Mount Lemmon Survey
(590043)	2011 DP_{20}	2011 01 27	G96	Mount Lemmon Survey
(590044)	2011 DY_{45}	2007 03 11	G96	Mount Lemmon Survey
(590045)	2011 DO_{51}	2003 03 12	J75	NEAT
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(590047)	2011 DX_{56}	2011 02 26	G96	Mount Lemmon Survey
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(590050)	2011 ED_{33}	2007 03 10	G96	Mount Lemmon Survey
(590051)	2011 EK_{39}	2008 09 04	G96	Spacewatch
(590052)	2011 EM_{50}	2011 03 11	H15	Elenin, L.
(590053)	2011 EX_{85}	2003 04 09	I41	NEAT
(590054)	2011 EX_{89}	2011 03 09	G96	Mount Lemmon Survey
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(590057)	2011 EY_{96}	2016 06 04	G96	Mount Lemmon Survey
(590058)	2011 EQ_{100}	2011 03 13	G96	Mount Lemmon Survey
(590059)	2011 ES_{102}	2011 03 09	G96	Mount Lemmon Survey
(590060)	2011 EZ_{103}	2011 03 11	G96	Mount Lemmon Survey
(590061)	2011 FW_{9}	2007 04 15	461	Spacewatch
(590062)	2011 FT_{17}	2002 01 09	703	LINEAR
(590063)	2011 FR_{24}	2011 03 09	G96	Spacewatch
(590064)	2011 FH_{26}	2011 03 14	461	CSS
(590065)	2011 FE_{32}	2005 12 24	691	LINEAR
(590066)	2011 FD_{36}	2005 09 25	703	Spacewatch
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(590068)	2011 FH_{42}	2011 03 26	G96	Mount Lemmon Survey
(590069)	2011 FJ_{49}	2011 03 25	G96	Pan-STARRS 1
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(590071)	2011 FP_{61}	2008 09 24	G96	Spacewatch
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(590087) 2011 FG_{149} 2005 10 27 461 CSS
(590088) 2011 FZ_{151} 2011 03 25 G96 Mount Lemmon Survey
(590089) 2011 FG_{157} 2011 04 06 I41 Bernasconi, L.
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(590109) 2011 GD_{101} 2011 04 12 G96 Mount Lemmon Survey
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(590115) 2011 HT_{46} 2011 04 06 G96 Mount Lemmon Survey
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(590137) 2011 KE_{12} 2011 05 24 F51 Schwartz, M., Holvorcem, P. R.
(590138) 2011 KJ_{40} 2011 05 24 F51 Pan-STARRS 1
(590139) 2011 KH_{42} 2009 11 10 G96 Spacewatch
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(590141) 2011 KL_{45} 2003 04 09 291 Spacewatch
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(590149) 2011 OT_{45} 2000 01 29 F51 Spacewatch
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(590151) 2011 OX_{70} 2011 07 27 H21 Holmes, R.
(590152) 2011 PX_{7} 2011 08 06 F51 Pan-STARRS 1
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(590176) 2011 SE_{131} 2006 10 02 F51 Mount Lemmon Survey
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(590179) 2011 SJ_{140} 2011 09 23 F51 Pan-STARRS 1
(590180) 2011 SR_{158} 2001 10 22 691 LINEAR
(590181) 2011 SQ_{181} 2011 09 26 691 Spacewatch
(590182) 2011 SZ_{189} 2011 09 20 G96 Pan-STARRS 1
(590183) 2011 SH_{200} 2007 10 08 G96 Spacewatch
(590184) 2011 SX_{209} 2001 08 19 G96 Cerro Tololo
(590185) 2011 SB_{215} 2011 09 20 691 Mount Lemmon Survey
(590186) 2011 SC_{225} 2006 09 30 G96 CSS

(590187)	2011 SA_{228}	2006 07 18	G96	Mount Lemmon Survey
(590188)	2011 SW_{231}	2011 08 30	F51	Spacewatch
(590189)	2011 SY_{232}	2007 11 09	G96	Spacewatch
(590190)	2011 SN_{234}	2011 09 30	B01	Schwab, E., Kling, R.
(590191)	2011 SJ_{236}	2003 01 28	F51	SDSS Collaboration
(590192)	2011 SF_{251}	2007 11 11	F51	Mount Lemmon Survey
(590193)	2011 SY_{266}	2011 09 20	691	Spacewatch
(590194)	2011 SC_{280}	2003 03 23	F51	SDSS Collaboration
(590195)	2011 SG_{281}	2006 10 16	F51	CSS
(590196)	2011 SN_{281}	2011 09 23	691	Spacewatch
(590197)	2011 SG_{283}	2011 09 29	G96	Mount Lemmon Survey
(590198)	2011 SE_{291}	2011 09 27	G96	Mount Lemmon Survey
(590199)	2011 SA_{297}	2011 09 20	F51	Pan-STARRS 1
(590200)	2011 SB_{308}	2011 09 20	F51	Pan-STARRS 1
(590201)	2011 SX_{308}	2011 09 18	G96	Mount Lemmon Survey
(590202)	2011 ST_{309}	2011 09 23	F51	Pan-STARRS 1
(590203)	2011 SB_{312}	2011 09 20	G96	Mount Lemmon Survey
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(590205)	2011 SZ_{314}	2011 09 26	F51	Pan-STARRS 1
(590206)	2011 SH_{323}	2011 09 21	291	Spacewatch
(590207)	2011 TD_{2}	2010 10 13	A14	Mount Lemmon Survey
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(590214)	2011 UA_{45}	2006 10 20	G96	Spacewatch
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(590216)	2011 UN_{45}	2011 09 24	F51	Pan-STARRS 1
(590217)	2011 UZ_{55}	2011 10 18	G96	Mount Lemmon Survey
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(590219)	2011 UE_{71}	2010 09 03	G96	Mount Lemmon Survey
(590220)	2011 UM_{87}	2011 10 21	G96	Mount Lemmon Survey
(590221)	2011 UT_{102}	2005 07 29	691	NEAT
(590222)	2011 UU_{102}	2011 10 20	G96	Mount Lemmon Survey
(590223)	2011 UL_{106}	2011 10 22	510	Bill, H.
(590224)	2011 UX_{110}	2011 10 21	F51	Pan-STARRS 1
(590225)	2011 UE_{113}	2005 08 29	G96	NEAT
(590226)	2011 UH_{129}	2011 09 27	F51	Mount Lemmon Survey
(590227)	2011 US_{139}	2005 10 06	691	Spacewatch
(590228)	2011 UM_{144}	2011 10 01	691	Mount Lemmon Survey
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(590230)	2011 UP_{148}	2004 08 20	691	Spacewatch
(590231)	2011 UP_{161}	2011 10 23	691	Spacewatch
(590232)	2011 US_{161}	2002 01 22	691	Spacewatch
(590233)	2011 UL_{165}	2001 12 14	F51	NEAT
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(590238)	2011 UN_{181}	2008 12 05	F51	Spacewatch
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(590243)	2011 UU_{194}	2001 07 19	703	NEAT
(590244)	2011 US_{199}	2011 10 25	F51	Pan-STARRS 1
(590245)	2011 US_{212}	2008 01 12	G96	Spacewatch
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(590247)	2011 US_{234}	2007 10 16	F51	Mount Lemmon Survey
(590248)	2011 UZ_{243}	2011 10 25	F51	Pan-STARRS 1
(590249)	2011 UV_{247}	2009 04 27	F51	Mount Lemmon Survey
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(590258)	2011 UG_{287}	2006 10 02	G96	Mount Lemmon Survey
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(590260)	2011 UF_{296}	2011 10 21	691	Spacewatch
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(590263)	2011 UQ_{320}	2006 11 16	D29	Mount Lemmon Survey
(590264)	2011 UP_{321}	2011 10 31	H15	Elenin, L.
(590265)	2011 UY_{325}	2005 07 10	G96	Spacewatch
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(590281)	2011 UJ_{402}	2010 04 08	F51	OAM Observatory
(590282)	2011 UM_{402}	2006 11 22	F51	CSS
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(590289)	2011 UL_{422}	2011 10 20	691	Spacewatch
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(590293)	2011 UA_{432}	2011 10 26	F51	Pan-STARRS 1
(590294)	2011 UQ_{434}	2014 04 04	F51	Spacewatch
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(590326)	2011 WB_{9}	2011 09 23	G96	Mount Lemmon Survey
(590327)	2011 WG_{18}	2011 09 29	G96	Spacewatch
(590328)	2011 WX_{20}	2010 09 06	G96	Kuli, Z.
(590329)	2011 WN_{21}	2005 09 12	G96	Spacewatch
(590330)	2011 WD_{23}	2011 11 17	G96	Mount Lemmon Survey
(590331)	2011 WE_{26}	2006 11 16	G96	Spacewatch
(590332)	2011 WN_{31}	2011 11 22	461	Pal, A.
(590333)	2011 WJ_{33}	2005 08 29	G96	NEAT
(590334)	2011 WH_{38}	2011 11 15	G96	Spacewatch
(590335)	2011 WX_{46}	2011 11 03	300	Kryachko, T., Satovski, B.
(590336)	2011 WH_{48}	2001 10 15	F51	NEAT
(590337)	2011 WO_{50}	2003 05 23	703	Spacewatch
(590338)	2011 WA_{67}	2005 09 01	C32	NEAT
(590339)	2011 WK_{78}	2011 11 19	A17	Mount Lemmon Survey
(590340)	2011 WX_{78}	2010 09 03	F51	OAM Observatory
(590341)	2011 WN_{79}	2011 10 25	F51	Pan-STARRS 1
(590342)	2011 WQ_{83}	2011 10 26	F51	Pan-STARRS 1
(590343)	2011 WP_{90}	2009 04 18	691	Mount Lemmon Survey
(590344)	2011 WM_{94}	2006 11 02	G96	Bickel, W.
(590345)	2011 WB_{95}	2006 10 16	J43	CSS
(590346)	2011 WU_{98}	2006 11 23	F51	Spacewatch
(590347)	2011 WY_{100}	2011 10 19	G96	Mount Lemmon Survey
(590348)	2011 WS_{103}	2011 11 03	G96	Mount Lemmon Survey
(590349)	2011 WQ_{108}	2011 10 25	G96	Pan-STARRS 1
(590350)	2011 WN_{118}	2011 11 18	703	CSS
(590351)	2011 WX_{121}	2011 10 21	691	Mount Lemmon Survey
(590352)	2011 WV_{123}	2011 11 01	G96	Mount Lemmon Survey
(590353)	2011 WA_{124}	1995 09 22	691	Spacewatch
(590354)	2011 WX_{129}	2011 10 23	G96	Pan-STARRS 1
(590355)	2011 WU_{130}	2011 10 29	G96	Spacewatch
(590356)	2011 WM_{134}	2008 04 29	G96	Spacewatch
(590357)	2011 WF_{136}	2011 11 25	F51	Pan-STARRS 1
(590358)	2011 WN_{136}	2007 11 04	F51	Spacewatch
(590359)	2011 WB_{140}	2014 04 23	G96	Pan-STARRS 1
(590360)	2011 WD_{140}	2011 11 18	G96	Mount Lemmon Survey
(590361)	2011 WN_{154}	2002 03 20	I41	LINEAR
(590362)	2011 WF_{155}	2011 10 26	G96	Pan-STARRS 1
(590363)	2011 WM_{157}	2008 03 10	G96	Mount Lemmon Survey
(590364)	2011 WR_{157}	2010 10 29	F51	Spacewatch
(590365)	2011 WF_{159}	2011 11 26	G96	Mount Lemmon Survey
(590366)	2011 WU_{159}	2011 11 18	G96	Mount Lemmon Survey
(590367)	2011 WZ_{162}	2011 11 17	691	Spacewatch
(590368)	2011 WK_{163}	2011 11 24	F51	Pan-STARRS 1
(590369)	2011 WM_{171}	2016 10 07	F51	Pan-STARRS 1
(590370)	2011 WP_{174}	2011 11 24	F51	Pan-STARRS 1
(590371)	2011 XQ_{2}	2011 12 01	F51	Pan-STARRS 1
(590372)	2011 XW_{3}	2005 10 13	J04	Spacewatch
(590373)	2011 XS_{4}	2013 02 07	F51	Spacewatch
(590374)	2011 XA_{5}	2011 12 01	F51	Pan-STARRS 1
(590375)	2011 XW_{6}	2011 12 06	F51	Pan-STARRS 1
(590376)	2011 YB_{1}	2011 11 24	G96	Mount Lemmon Survey
(590377)	2011 YG_{2}	2007 01 21	G96	Mauna Kea
(590378)	2011 YM_{2}	2002 02 07	C42	NEAT
(590379)	2011 YM_{6}	2008 07 29	J04	Mount Lemmon Survey
(590380)	2011 YD_{9}	2005 07 05	G96	NEAT
(590381)	2011 YP_{11}	2006 10 22	G96	Mount Lemmon Survey
(590382)	2011 YZ_{11}	2001 01 17	703	AMOS
(590383)	2011 YE_{31}	2011 12 26	A14	Bernasconi, L.
(590384)	2011 YL_{34}	2005 01 07	691	Spacewatch
(590385)	2011 YR_{34}	2001 01 30	691	AMOS
(590386)	2011 YD_{36}	2011 12 26	G96	Mount Lemmon Survey
(590387)	2011 YX_{36}	2007 02 21	G96	Mount Lemmon Survey
(590388)	2011 YW_{46}	2011 12 27	691	Spacewatch
(590389)	2011 YL_{47}	2011 12 28	J43	Ory, M.
(590390)	2011 YV_{50}	2011 12 29	691	Spacewatch
(590391)	2011 YJ_{52}	2009 03 01	G96	Mount Lemmon Survey
(590392)	2011 YA_{53}	2010 06 18	691	Mount Lemmon Survey
(590393)	2011 YX_{54}	2007 01 27	691	Mount Lemmon Survey
(590394)	2011 YR_{57}	2008 05 01	691	Spacewatch

(590395)	2011 YN_{62}	2005 06 04	G96	Spacewatch
(590396)	2011 YB_{65}	2006 10 21	691	Mount Lemmon Survey
(590397)	2011 YX_{67}	2003 07 05	691	Spacewatch
(590398)	2011 YX_{68}	2005 11 01	F51	Mount Lemmon Survey
(590399)	2011 YP_{70}	2011 12 16	G96	Mount Lemmon Survey
(590400)	2011 YX_{71}	2011 12 01	G96	Holmes, R.
(590401)	2011 YK_{72}	2011 12 29	691	Spacewatch
(590402)	2011 YO_{74}	2011 12 28	703	CSS
(590403)	2011 YJ_{78}	2012 01 04	I41	Mount Lemmon Survey
(590404)	2011 YP_{79}	2013 01 10	G96	Pan-STARRS 1
(590405)	2011 YH_{81}	2011 12 26	691	Spacewatch
(590406)	2011 YO_{81}	2016 11 10	G96	Mount Lemmon Survey
(590407)	2011 YD_{82}	2014 05 06	691	Pan-STARRS 1
(590408)	2011 YK_{82}	2011 12 27	G96	Mount Lemmon Survey
(590409)	2011 YF_{83}	2011 12 30	G96	Mount Lemmon Survey
(590410)	2011 YG_{83}	2011 12 24	G96	Mount Lemmon Survey
(590411)	2011 YH_{84}	2016 10 13	G96	Mount Lemmon Survey
(590412)	2011 YS_{84}	2016 09 08	G96	Pan-STARRS 1
(590413)	2011 YZ_{84}	2016 01 18	G96	Pan-STARRS 1
(590414)	2011 YF_{88}	2011 12 29	G96	Mount Lemmon Survey
(590415)	2011 YS_{88}	2013 06 30	G36	Pan-STARRS 1
(590416)	2011 YV_{88}	2015 07 24	G96	Pan-STARRS 1
(590417)	2011 YY_{88}	2011 12 24	G96	Mount Lemmon Survey
(590418)	2011 YH_{89}	2011 12 27	691	Spacewatch
(590419)	2011 YA_{90}	2018 06 18	691	Pan-STARRS 1
(590420)	2011 YF_{90}	2011 12 28	691	Spacewatch
(590421)	2011 YP_{90}	2011 12 31	691	Spacewatch
(590422)	2011 YK_{91}	2011 12 26	691	Spacewatch
(590423)	2011 YX_{91}	2011 12 29	G96	Mount Lemmon Survey
(590424)	2011 YA_{92}	2011 12 29	G96	Mount Lemmon Survey
(590425)	2011 YB_{93}	2011 12 26	691	Spacewatch
(590426)	2011 YF_{94}	2011 12 27	G96	Mount Lemmon Survey
(590427)	2012 AD_{4}	2012 01 01	G96	Mount Lemmon Survey
(590428)	2012 AZ_{4}	2011 12 21	G96	ESA OGS
(590429)	2012 AM_{5}	2005 12 07	G96	Spacewatch
(590430)	2012 AV_{7}	2008 09 09	691	Mount Lemmon Survey
(590431)	2012 AQ_{8}	2012 01 02	691	Spacewatch
(590432)	2012 AX_{11}	2012 01 01	G96	Mount Lemmon Survey
(590433)	2012 AN_{12}	2012 01 05	691	Spacewatch
(590434)	2012 AJ_{15}	2000 11 02	G96	Spacewatch
(590435)	2012 AJ_{16}	2011 12 27	G96	Mount Lemmon Survey
(590436)	2012 AU_{19}	2007 11 02	G96	Mount Lemmon Survey
(590437)	2012 AA_{20}	2012 01 02	691	Spacewatch
(590438)	2012 AU_{21}	2012 01 03	G96	Mount Lemmon Survey
(590439)	2012 AH_{22}	2003 09 18	703	NEAT
(590440)	2012 AT_{23}	2005 10 31	I41	CSS
(590441)	2012 AC_{26}	2016 10 09	G96	Pan-STARRS 1
(590442)	2012 AE_{26}	2014 06 05	G96	Pan-STARRS 1
(590443)	2012 AM_{26}	2016 10 21	G96	Mount Lemmon Survey
(590444)	2012 AD_{29}	2012 01 02	691	Spacewatch
(590445)	2012 AD_{31}	2012 01 02	691	Spacewatch
(590446)	2012 AW_{31}	2012 01 01	G96	Mount Lemmon Survey
(590447)	2012 AE_{33}	2012 01 01	G96	Mount Lemmon Survey
(590448)	2012 BE_{19}	2011 10 25	J75	Mount Lemmon Survey
(590449)	2012 BX_{19}	2012 01 19	F51	Pan-STARRS 1
(590450)	2012 BY_{23}	2011 12 27	198	Spacewatch
(590451)	2012 BR_{28}	2010 09 18	G96	Mount Lemmon Survey
(590452)	2012 BU_{30}	2006 11 23	F51	Mount Lemmon Survey
(590453)	2012 BE_{34}	2007 02 10	703	Mount Lemmon Survey
(590454)	2012 BJ_{34}	2005 11 26	703	CSS
(590455)	2012 BV_{35}	2005 08 31	G96	NEAT
(590456)	2012 BR_{36}	2012 01 02	G96	Mount Lemmon Survey
(590457)	2012 BS_{39}	2012 01 19	G96	Mount Lemmon Survey
(590458)	2012 BN_{44}	2012 01 03	G96	Spacewatch
(590459)	2012 BE_{47}	2012 01 19	G96	Mount Lemmon Survey
(590460)	2012 BX_{49}	2011 12 27	G96	Mount Lemmon Survey
(590461)	2012 BB_{54}	2010 09 04	F51	Mount Lemmon Survey
(590462)	2012 BD_{55}	2003 12 18	F51	Spacewatch
(590463)	2012 BU_{56}	2012 01 04	J75	Mount Lemmon Survey
(590464)	2012 BB_{57}	2012 01 23	H06	Falla, N.
(590465)	2012 BW_{60}	2012 01 24	F51	Pan-STARRS 1
(590466)	2012 BK_{61}	2009 09 30	F51	Mount Lemmon Survey
(590467)	2012 BK_{64}	2012 01 20	G96	Mount Lemmon Survey
(590468)	2012 BG_{68}	2012 01 21	691	Spacewatch
(590469)	2012 BL_{68}	2012 01 21	691	Spacewatch
(590470)	2012 BR_{71}	2012 01 21	703	CSS
(590471)	2012 BO_{72}	2010 09 19	691	Mount Lemmon Survey
(590472)	2012 BM_{74}	2012 01 23	J43	Ory, M.
(590473)	2012 BG_{76}	2008 01 18	G96	Mount Lemmon Survey
(590474)	2012 BF_{80}	2007 09 25	F51	Mount Lemmon Survey
(590475)	2012 BE_{81}	2001 03 18	F51	Spacewatch
(590476)	2012 BH_{82}	2012 01 27	F51	Mount Lemmon Survey
(590477)	2012 BK_{83}	2012 01 27	F51	Mount Lemmon Survey
(590478)	2012 BB_{84}	2012 01 27	F51	Mount Lemmon Survey
(590479)	2012 BN_{85}	2012 01 18	F51	Bickel, W.
(590480)	2012 BT_{85}	2002 04 20	F51	NEAT
(590481)	2012 BH_{90}	2011 12 29	G96	Spacewatch
(590482)	2012 BC_{94}	2012 01 27	691	Spacewatch
(590483)	2012 BX_{96}	2010 12 02	F51	Mount Lemmon Survey
(590484)	2012 BB_{97}	2011 12 24	F51	Mount Lemmon Survey
(590485)	2012 BO_{97}	2008 09 02	F51	Spacewatch
(590486)	2012 BD_{99}	2012 01 26	F51	Pan-STARRS 1
(590487)	2012 BS_{100}	2012 01 27	691	Spacewatch
(590488)	2012 BQ_{101}	2012 01 27	G96	Mount Lemmon Survey
(590489)	2012 BC_{111}	2012 01 27	691	Mount Lemmon Survey
(590490)	2012 BT_{115}	2012 01 27	G96	Mount Lemmon Survey
(590491)	2012 BW_{116}	2012 01 27	G96	Mount Lemmon Survey
(590492)	2012 BH_{118}	2012 01 27	G96	Mount Lemmon Survey
(590493)	2012 BT_{119}	2012 01 27	G96	Mount Lemmon Survey
(590494)	2012 BV_{123}	2012 01 28	F51	Pan-STARRS 1
(590495)	2012 BP_{124}	2012 01 29	691	Spacewatch
(590496)	2012 BM_{126}	2010 10 11	691	Mount Lemmon Survey
(590497)	2012 BX_{128}	2011 12 27	691	Mount Lemmon Survey
(590498)	2012 BM_{129}	2012 01 30	691	Spacewatch

(590499)	2012 BD_{131}	2004 01 18	703	NEAT
(590500)	2012 BF_{131}	2012 01 25	F51	Pan-STARRS 1
(590501)	2012 BZ_{132}	2003 11 15	G96	Spacewatch
(590502)	2012 BK_{137}	2012 01 26	G96	Mount Lemmon Survey
(590503)	2012 BL_{140}	2012 01 01	G96	Mount Lemmon Survey
(590504)	2012 BH_{141}	2010 09 19	F51	Spacewatch
(590505)	2012 BL_{144}	2012 01 26	G96	Mount Lemmon Survey
(590506)	2012 BK_{145}	2007 11 13	G96	Mount Lemmon Survey
(590507)	2012 BC_{148}	2012 01 20	G96	Spacewatch
(590508)	2012 BX_{151}	2010 10 13	I41	Mount Lemmon Survey
(590509)	2012 BS_{156}	2006 01 08	691	Spacewatch
(590510)	2012 BR_{159}	2007 02 21	691	Mount Lemmon Survey
(590511)	2012 BL_{160}	2012 01 26	G96	Mount Lemmon Survey
(590512)	2012 BS_{160}	2012 01 19	691	Spacewatch
(590513)	2012 BJ_{161}	2013 04 14	F51	Mount Lemmon Survey
(590514)	2012 BQ_{162}	2016 10 07	F51	Pan-STARRS 1
(590515)	2012 BX_{162}	2012 01 18	F51	CSS
(590516)	2012 BP_{164}	2008 02 13	F51	Mount Lemmon Survey
(590517)	2012 BT_{166}	2016 11 25	F51	Mount Lemmon Survey
(590518)	2012 BA_{169}	2015 08 11	G96	Pan-STARRS 1
(590519)	2012 BL_{169}	2012 01 27	F51	Mount Lemmon Survey
(590520)	2012 BX_{171}	2016 12 02	G96	Mount Lemmon Survey
(590521)	2012 BD_{173}	2016 11 05	F51	Mount Lemmon Survey
(590522)	2012 BM_{174}	2012 01 27	G96	Mount Lemmon Survey
(590523)	2012 BJ_{176}	2012 01 18	691	Spacewatch
(590524)	2012 BQ_{179}	2012 01 27	G96	Mount Lemmon Survey
(590525)	2012 BD_{180}	2012 01 30	G96	Mount Lemmon Survey
(590526)	2012 BT_{180}	2012 01 21	691	Spacewatch
(590527)	2012 CD_{3}	2005 10 29	J43	Spacewatch
(590528)	2012 CP_{11}	2012 02 03	F51	Pan-STARRS 1
(590529)	2012 CT_{12}	2012 02 03	F51	Pan-STARRS 1
(590530)	2012 CV_{15}	2012 01 21	F51	Spacewatch
(590531)	2012 CR_{18}	2000 11 30	703	SDSS Collaboration
(590532)	2012 CM_{19}	2012 02 12	F51	Pan-STARRS 1
(590533)	2012 CZ_{24}	2012 01 19	F51	Pan-STARRS 1
(590534)	2012 CQ_{28}	2012 02 13	F51	Pan-STARRS 1
(590535)	2012 CQ_{31}	2012 01 21	G96	Spacewatch
(590536)	2012 CR_{31}	2012 01 26	G96	Pan-STARRS 1
(590537)	2012 CC_{32}	2012 01 29	F51	Spacewatch
(590538)	2012 CD_{37}	2012 01 21	691	Spacewatch
(590539)	2012 CJ_{37}	2007 10 09	G96	Spacewatch
(590540)	2012 CL_{37}	2007 02 17	G96	Spacewatch
(590541)	2012 CH_{45}	2001 04 24	F51	Spacewatch
(590542)	2012 CO_{45}	2005 10 22	F51	Spacewatch
(590543)	2012 CL_{49}	2012 02 13	F51	Pan-STARRS 1
(590544)	2012 CR_{54}	2008 01 01	F51	Spacewatch
(590545)	2012 CT_{60}	2012 02 11	G96	Mount Lemmon Survey
(590546)	2012 CJ_{61}	2016 01 18	F51	Pan-STARRS 1
(590547)	2012 CP_{63}	2015 10 03	F51	Mount Lemmon Survey
(590548)	2012 CT_{65}	2012 02 14	F51	Pan-STARRS 1
(590549)	2012 CK_{67}	2012 02 01	G96	Mount Lemmon Survey
(590550)	2012 DJ_{3}	2012 01 19	F51	Pan-STARRS 1
(590551)	2012 DY_{15}	2012 02 21	J43	Ory, M.
(590552)	2012 DJ_{19}	2012 02 21	691	Spacewatch
(590553)	2012 DN_{30}	2012 02 22	695	Holmes, R.
(590554)	2012 DA_{34}	2012 01 25	691	Spacewatch
(590555)	2012 DB_{49}	2012 01 20	G96	Pan-STARRS 1
(590556)	2012 DD_{59}	2012 02 21	F51	Elenin, L.
(590557)	2012 DL_{61}	2012 01 29	H21	Pan-STARRS 1
(590558)	2012 DR_{62}	2005 09 03	F51	NEAT
(590559)	2012 DP_{71}	2009 09 24	G96	Mount Lemmon Survey
(590560)	2012 DC_{73}	2012 02 26	F51	Pan-STARRS 1
(590561)	2012 DX_{80}	2003 11 19	F51	Spacewatch
(590562)	2012 DZ_{80}	2012 02 26	F51	Pan-STARRS 1
(590563)	2012 DO_{90}	2007 03 12	F51	Spacewatch
(590564)	2012 DP_{99}	2010 09 02	F51	Mount Lemmon Survey
(590565)	2012 DH_{100}	2012 02 10	G96	Mount Lemmon Survey
(590566)	2012 DS_{104}	2012 02 27	F51	Pan-STARRS 1
(590567)	2012 DB_{107}	2013 04 12	G96	Pan-STARRS 1
(590568)	2012 DQ_{107}	2012 02 16	H15	Elenin, L.
(590569)	2012 DH_{110}	2012 02 21	691	Spacewatch
(590570)	2012 DJ_{117}	2012 02 16	F51	Pan-STARRS 1
(590571)	2012 DK_{119}	2012 02 24	G96	Mount Lemmon Survey
(590572)	2012 DL_{119}	2012 02 19	691	Spacewatch
(590573)	2012 DO_{123}	2012 02 26	G96	Mount Lemmon Survey
(590574)	2012 DF_{124}	2012 02 23	691	Spacewatch
(590575)	2012 ET	2009 08 16	G96	Spacewatch
(590576)	2012 EC_{9}	2012 02 13	703	Spacewatch
(590577)	2012 EB_{14}	2006 10 02	G96	Mount Lemmon Survey
(590578)	2012 EB_{15}	2004 03 17	F51	NEAT
(590579)	2012 ES_{15}	2012 03 15	461	Sárneczky, K.
(590580)	2012 EP_{20}	2013 08 30	G96	Pan-STARRS 1
(590581)	2012 EH_{22}	2000 01 16	F51	Spacewatch
(590582)	2012 FD	2012 03 16	703	CSS
(590583)	2012 FS_{5}	2012 01 27	F51	Spacewatch
(590584)	2012 FY_{10}	2010 12 03	G96	Mount Lemmon Survey
(590585)	2012 FF_{18}	2009 09 15	G96	Spacewatch
(590586)	2012 FS_{21}	2012 03 17	G96	Mount Lemmon Survey
(590587)	2012 FH_{23}	2012 03 21	F51	Pan-STARRS 1
(590588)	2012 FZ_{25}	2008 02 10	G96	Spacewatch
(590589)	2012 FG_{34}	2008 04 09	G96	Mount Lemmon Survey
(590590)	2012 FZ_{37}	2012 03 25	G96	Mount Lemmon Survey
(590591)	2012 FC_{38}	2008 01 10	G96	Mount Lemmon Survey
(590592)	2012 FJ_{41}	2012 02 26	G96	Spacewatch
(590593)	2012 FZ_{65}	2012 02 28	F51	Pan-STARRS 1
(590594)	2012 FZ_{69}	2005 08 29	F51	Spacewatch
(590595)	2012 FT_{78}	2001 10 23	H15	NEAT
(590596)	2012 FH_{83}	2003 09 27	I41	Spacewatch
(590597)	2012 FR_{84}	2012 02 26	F51	Spacewatch
(590598)	2012 FZ_{86}	2008 04 03	G96	Mount Lemmon Survey
(590599)	2012 FO_{88}	2012 03 29	691	Spacewatch
(590600)	2012 FH_{89}	2012 03 17	691	Spacewatch
(590601)	2012 FU_{93}	2012 03 17	G96	Mount Lemmon Survey
(590602)	2012 FC_{103}	2012 03 16	F51	Pan-STARRS 1

(590603)	2012 GU	2005 09 03	F51	NEAT
(590604)	2012 GV	2012 03 16	F51	Pan-STARRS 1
(590605)	2012 GO_{24}	2012 03 16	F51	CSS
(590606)	2012 GZ_{31}	2012 03 30	F51	Siding Spring Survey
(590607)	2012 HB_{12}	2004 01 17	J95	NEAT
(590608)	2012 HW_{20}	2012 04 25	F51	Pan-STARRS 1
(590609)	2012 HQ_{35}	2012 04 27	691	Spacewatch
(590610)	2012 HP_{38}	2012 04 20	G96	Mount Lemmon Survey
(590611)	2012 HJ_{48}	2004 05 28	F51	Spacewatch
(590612)	2012 HL_{50}	2012 03 28	F51	Pan-STARRS 1
(590613)	2012 HG_{56}	2009 10 24	F51	Spacewatch
(590614)	2012 HC_{72}	2012 04 24	F51	Pan-STARRS 1
(590615)	2012 HE_{77}	2012 04 28	691	Spacewatch
(590616)	2012 HU_{84}	2005 03 08	G96	Mount Lemmon Survey
(590617)	2012 HD_{87}	2012 04 28	G96	Mount Lemmon Survey
(590618)	2012 HU_{88}	2015 09 10	G96	Pan-STARRS 1
(590619)	2012 HJ_{90}	2012 04 23	691	Spacewatch
(590620)	2012 HZ_{99}	2012 04 16	691	Spacewatch
(590621)	2012 HR_{100}	2012 04 27	F51	Pan-STARRS 1
(590622)	2012 HT_{107}	2012 04 30	691	Spacewatch
(590623)	2012 JD_{10}	2012 04 30	G96	Spacewatch
(590624)	2012 JZ_{10}	2004 02 20	F51	Bickel, W.
(590625)	2012 JB_{15}	2012 05 12	G96	Mount Lemmon Survey
(590626)	2012 JB_{21}	2012 05 01	G96	Mount Lemmon Survey
(590627)	2012 JU_{26}	1998 05 29	G96	Spacewatch
(590628)	2012 JT_{33}	2012 04 21	F51	Mount Lemmon Survey
(590629)	2012 JM_{35}	2012 05 15	G96	Mount Lemmon Survey
(590630)	2012 JR_{43}	2012 05 15	G96	Mount Lemmon Survey
(590631)	2012 JL_{45}	2012 05 15	F51	Pan-STARRS 1
(590632)	2012 JH_{50}	2012 05 14	621	Pan-STARRS 1
(590633)	2012 JL_{63}	2009 09 27	G96	Spacewatch
(590634)	2012 KL	2008 08 04	F51	Skvarč, J.
(590635)	2012 KJ_{2}	2012 05 16	F51	Pan-STARRS 1
(590636)	2012 KC_{9}	2006 01 05	F51	Mount Lemmon Survey
(590637)	2012 KS_{9}	2012 05 16	691	Spacewatch
(590638)	2012 KE_{17}	2006 12 12	G96	Mount Lemmon Survey
(590639)	2012 KV_{24}	2012 05 19	H21	Holmes, R.
(590640)	2012 KL_{27}	2007 01 19	G96	Mauna Kea
(590641)	2012 KF_{33}	2012 05 16	G96	Mount Lemmon Survey
(590642)	2012 KR_{37}	2008 04 30	G96	Spacewatch
(590643)	2012 KW_{37}	2005 07 31	G96	NEAT
(590644)	2012 KC_{46}	2010 12 02	E12	Spacewatch
(590645)	2012 KC_{53}	2012 05 18	G96	Mount Lemmon Survey
(590646)	2012 KE_{60}	2012 05 19	G96	Mount Lemmon Survey
(590647)	2012 LH_{6}	2007 01 28	G96	Mount Lemmon Survey
(590648)	2012 LE_{14}	2012 04 20	G96	Spacewatch
(590649)	2012 LP_{15}	2008 09 27	G96	Mount Lemmon Survey
(590650)	2012 LR_{20}	2012 06 10	G96	Mount Lemmon Survey
(590651)	2012 LE_{21}	2009 11 24	F51	Spacewatch
(590652)	2012 LH_{21}	2003 03 29	F51	LONEOS
(590653)	2012 LU_{22}	2012 04 21	F51	Mount Lemmon Survey
(590654)	2012 LU_{24}	2012 06 15	G96	Mount Lemmon Survey
(590655)	2012 LV_{24}	2005 05 19	G96	Mount Lemmon Survey
(590656)	2012 LF_{27}	2013 11 10	F51	Mount Lemmon Survey
(590657)	2012 MM_{1}	2012 06 17	G96	Mount Lemmon Survey
(590658)	2012 MF_{5}	2012 05 16	691	Pan-STARRS 1
(590659)	2012 MW_{7}	2001 12 19	G96	NEAT
(590660)	2012 MY_{9}	2012 05 29	G96	Mount Lemmon Survey
(590661)	2012 MO_{10}	2010 12 09	F51	Mount Lemmon Survey
(590662)	2012 MU_{16}	2008 10 01	G96	CSS
(590663)	2012 MY_{16}	2012 06 21	G96	Mount Lemmon Survey
(590664)	2012 OV	2001 11 11	114	SDSS Collaboration
(590665)	2012 OH_{1}	1999 06 16	D00	Wise
(590666)	2012 OV_{5}	2007 04 12	D00	LUSS
(590667)	2012 OS_{6}	2016 04 12	F51	Pan-STARRS 1
(590668)	2012 OG_{7}	2004 10 07	E12	Spacewatch
(590669)	2012 OQ_{7}	2012 07 21	E12	Siding Spring Survey
(590670)	2012 PJ_{1}	2008 09 23	F51	Mount Lemmon Survey
(590671)	2012 PH_{2}	2004 12 20	F51	Mount Lemmon Survey
(590672)	2012 PF_{4}	2008 12 31	F51	Spacewatch
(590673)	2012 PD_{7}	2012 05 23	F51	Mount Lemmon Survey
(590674)	2012 PD_{11}	2008 10 31	691	Mount Lemmon Survey
(590675)	2012 PT_{19}	2003 05 21	E12	AMOS
(590676)	2012 PB_{23}	2002 02 21	F51	Spacewatch
(590677)	2012 PP_{29}	2008 09 05	F51	Spacewatch
(590678)	2012 PU_{35}	2012 05 29	F51	Mount Lemmon Survey
(590679)	2012 PF_{47}	2012 08 14	691	Spacewatch
(590680)	2012 PE_{54}	2012 08 13	691	Spacewatch
(590681)	2012 QA	1999 10 15	941	Spacewatch
(590682)	2012 QL_{3}	2012 08 06	F51	Pan-STARRS 1
(590683)	2012 QP_{3}	2007 02 16	J04	Bickel, W.
(590684)	2012 QX_{7}	2012 08 12	D03	CSS
(590685)	2012 QZ_{23}	2005 01 15	691	Spacewatch
(590686)	2012 QL_{25}	2012 08 24	691	Spacewatch
(590687)	2012 QH_{31}	1999 10 15	691	Spacewatch
(590688)	2012 QH_{36}	2005 01 13	691	Spacewatch
(590689)	2012 QS_{40}	2008 11 18	F51	CSS
(590690)	2012 QV_{40}	2012 08 19	E12	Siding Spring Survey
(590691)	2012 QU_{43}	2012 08 17	F51	Pan-STARRS 1
(590692)	2012 QN_{51}	2011 04 05	E12	CSS
(590693)	2012 QS_{52}	2004 01 27	J04	LONEOS
(590694)	2012 QT_{54}	2012 08 25	691	Spacewatch
(590695)	2012 QU_{55}	2015 02 27	F51	Pan-STARRS 1
(590696)	2012 QP_{56}	2013 12 27	F51	Mount Lemmon Survey
(590697)	2012 QZ_{56}	2012 08 26	F51	Pan-STARRS 1
(590698)	2012 QV_{59}	2015 03 22	F51	Pan-STARRS 1
(590699)	2012 QK_{64}	2012 08 17	F51	Pan-STARRS 1
(590700)	2012 QA_{67}	2012 08 16	G53	Levin, K.
(590701)	2012 QT_{67}	2012 08 26	691	Spacewatch
(590702)	2012 RN_{3}	2012 09 08	621	Bickel, W.
(590703)	2012 RH_{7}	2012 08 23	J75	Skvarč, J.
(590704)	2012 RK_{9}	2012 09 11	G53	Levin, K.
(590705)	2012 RM_{16}	2012 09 14	I93	CSS
(590706)	2012 RD_{17}	2003 09 14	D00	NEAT

(590707)	2012 RG_{17}	2012 09 11	D00	ASC-Kislovodsk
(590708)	2012 RZ_{20}	2003 08 22	703	NEAT
(590709)	2012 RF_{26}	2005 12 02	E12	Mauna Kea
(590710)	2012 RE_{32}	2003 08 28	703	AMOS
(590711)	2012 RR_{32}	2012 08 25	703	Pan-STARRS 1
(590712)	2012 RP_{36}	2008 10 30	F51	Spacewatch
(590713)	2012 RT_{36}	2008 11 19	F51	Mount Lemmon Survey
(590714)	2012 RA_{40}	2012 08 18	106	Skvarč, J.
(590715)	2012 RK_{42}	2004 12 21	106	CSS
(590716)	2012 RA_{43}	2007 04 22	198	Spacewatch
(590717)	2012 RR_{43}	2003 07 24	704	NEAT
(590718)	2012 RS_{48}	2012 09 06	F51	Pan-STARRS 1
(590719)	2012 SA_{5}	2003 09 23	G96	NEAT
(590720)	2012 SE_{9}	2012 09 17	G96	Mount Lemmon Survey
(590721)	2012 ST_{22}	2003 09 22	703	NEAT
(590722)	2012 SR_{23}	2008 09 22	G96	Mount Lemmon Survey
(590723)	2012 SB_{27}	2003 09 21	A14	NEAT
(590724)	2012 SR_{33}	2012 08 10	G96	Spacewatch
(590725)	2012 SW_{36}	2003 09 16	G96	Spacewatch
(590726)	2012 SY_{36}	2012 09 18	G96	Mount Lemmon Survey
(590727)	2012 SQ_{47}	2005 10 25	G96	Mount Lemmon Survey
(590728)	2012 SV_{47}	2010 02 18	G96	Mount Lemmon Survey
(590729)	2012 ST_{48}	2008 11 01	G96	Mount Lemmon Survey
(590730)	2012 SO_{52}	2008 10 29	G96	Spacewatch
(590731)	2012 SJ_{73}	2012 09 25	G96	Mount Lemmon Survey
(590732)	2012 SP_{83}	2012 09 21	G96	Mount Lemmon Survey
(590733)	2012 SP_{85}	2012 09 16	691	Spacewatch
(590734)	2012 SB_{86}	2012 09 23	G96	Mount Lemmon Survey
(590735)	2012 SD_{88}	2012 09 25	G96	Mount Lemmon Survey
(590736)	2012 TN_{4}	2003 11 24	F51	NEAT
(590737)	2012 TV_{20}	2001 03 23	926	Barbieri, C., Pignata, G.
(590738)	2012 TD_{25}	2012 09 22	F51	Spacewatch
(590739)	2012 TF_{29}	2012 09 18	G96	Vorobjov, T., Kostin, A.
(590740)	2012 TK_{40}	2012 10 08	G96	Mount Lemmon Survey
(590741)	2012 TM_{40}	2003 11 19	G96	Spacewatch
(590742)	2012 TS_{54}	2003 10 27	691	Spacewatch
(590743)	2012 TE_{58}	2003 10 20	691	NEAT
(590744)	2012 TR_{58}	2003 09 26	F51	SDSS Collaboration
(590745)	2012 TR_{60}	2003 10 19	F51	Spacewatch
(590746)	2012 TA_{63}	2012 10 08	F51	Pan-STARRS 1
(590747)	2012 TG_{67}	2003 12 01	G96	Spacewatch
(590748)	2012 TG_{72}	2005 01 15	G96	Spacewatch
(590749)	2012 TY_{72}	2012 10 09	G96	Mount Lemmon Survey
(590750)	2012 TD_{74}	2010 03 19	G96	Spacewatch
(590751)	2012 TK_{76}	2012 09 25	F51	Spacewatch
(590752)	2012 TK_{81}	2012 10 05	F51	Pan-STARRS 1
(590753)	2012 TV_{82}	2009 10 23	G96	Mount Lemmon Survey
(590754)	2012 TT_{89}	2012 10 07	F51	Pan-STARRS 1
(590755)	2012 TU_{90}	2012 10 07	F51	Pan-STARRS 1
(590756)	2012 TG_{91}	2003 10 23	F51	Spacewatch
(590757)	2012 TQ_{91}	2012 09 17	F51	Spacewatch
(590758)	2012 TV_{106}	2012 10 09	F51	Pan-STARRS 1
(590759)	2012 TO_{107}	2005 02 16	H06	Boattini, A.
(590760)	2012 TF_{113}	2012 09 16	G96	Spacewatch
(590761)	2012 TP_{116}	2005 02 07	G96	Lehmann, H.
(590762)	2012 TL_{118}	2012 10 10	G96	Mount Lemmon Survey
(590763)	2012 TZ_{119}	2003 09 22	G96	NEAT
(590764)	2012 TH_{126}	2012 10 06	926	CSS
(590765)	2012 TG_{127}	2003 09 16	703	Spacewatch
(590766)	2012 TN_{128}	2003 09 04	F51	Mikuž, H.
(590767)	2012 TB_{133}	2003 08 24	F51	Cerro Tololo
(590768)	2012 TK_{133}	2012 10 05	F51	Pan-STARRS 1
(590769)	2012 TL_{134}	2008 10 29	F51	Spacewatch
(590770)	2012 TL_{138}	2003 09 18	F51	CINEOS
(590771)	2012 TX_{138}	2012 10 09	926	Schwartz, M., Holvorcem, P. R.
(590772)	2012 TA_{139}	2003 10 01	G96	Spacewatch
(590773)	2012 TF_{139}	2003 10 03	G96	Spacewatch
(590774)	2012 TG_{142}	2012 10 06	F51	Pan-STARRS 1
(590775)	2012 TT_{154}	2012 10 08	F51	Pan-STARRS 1
(590776)	2012 TH_{158}	2007 09 13	F51	Mount Lemmon Survey
(590777)	2012 TP_{158}	2007 09 13	F51	Mount Lemmon Survey
(590778)	2012 TL_{165}	2003 10 20	F51	Spacewatch
(590779)	2012 TG_{167}	2012 10 08	F51	Pan-STARRS 1
(590780)	2012 TO_{178}	2012 10 09	F51	Pan-STARRS 1
(590781)	2012 TO_{179}	2012 10 09	F51	Pan-STARRS 1
(590782)	2012 TR_{180}	2012 10 09	F51	Pan-STARRS 1
(590783)	2012 TV_{182}	2006 03 24	F51	Mount Lemmon Survey
(590784)	2012 TB_{188}	2006 03 04	A14	Mount Lemmon Survey
(590785)	2012 TG_{192}	2012 10 10	G96	Mount Lemmon Survey
(590786)	2012 TX_{194}	2012 08 28	691	Mount Lemmon Survey
(590787)	2012 TB_{196}	2008 12 04	691	Mount Lemmon Survey
(590788)	2012 TA_{201}	2012 10 11	G96	Mount Lemmon Survey
(590789)	2012 TJ_{203}	2012 10 11	G96	Mount Lemmon Survey
(590790)	2012 TW_{204}	2012 10 11	G96	Mount Lemmon Survey
(590791)	2012 TA_{211}	2012 10 11	F51	Pan-STARRS 1
(590792)	2012 TL_{214}	2006 03 02	F51	Spacewatch
(590793)	2012 TW_{218}	2012 10 14	926	Elenin, L.
(590794)	2012 TC_{223}	2008 11 22	G96	Mount Lemmon Survey
(590795)	2012 TJ_{223}	2012 10 06	F51	Pan-STARRS 1
(590796)	2012 TR_{237}	2007 08 09	F51	Spacewatch
(590797)	2012 TT_{239}	2012 10 08	G96	Mount Lemmon Survey
(590798)	2012 TS_{243}	2008 10 08	F51	Spacewatch
(590799)	2012 TP_{247}	2012 10 11	691	Spacewatch
(590800)	2012 TC_{249}	2012 10 11	F51	Pan-STARRS 1
(590801)	2012 TF_{258}	2012 09 18	G84	Mount Lemmon Survey
(590802)	2012 TO_{259}	2003 09 20	G96	Spacewatch
(590803)	2012 TH_{260}	2012 10 07	F51	Pan-STARRS 1
(590804)	2012 TK_{260}	2008 09 25	F51	Spacewatch
(590805)	2012 TB_{270}	2012 10 11	G96	Mount Lemmon Survey
(590806)	2012 TE_{271}	2012 10 11	G96	Mount Lemmon Survey
(590807)	2012 TR_{275}	2011 06 06	F51	Pan-STARRS 1
(590808)	2012 TX_{278}	2003 09 18	F51	Spacewatch
(590809)	2012 TL_{282}	2003 08 23	J43	NEAT
(590810)	2012 TF_{297}	2005 03 08	F51	Mount Lemmon Survey

(590811)	2012 TN_{297}	2012 10 15	691	Spacewatch
(590812)	2012 TS_{304}	2008 12 03	F51	Mount Lemmon Survey
(590813)	2012 TY_{306}	2012 10 10	926	Schwartz, M., Holvorcem, P. R.
(590814)	2012 TH_{308}	2003 10 03	F51	Spacewatch
(590815)	2012 TU_{311}	2012 10 14	926	Schwartz, M., Holvorcem, P. R.
(590816)	2012 TJ_{314}	2012 09 20	F51	Elenin, L.
(590817)	2012 TU_{318}	2003 09 18	926	AMOS
(590818)	2012 TC_{329}	2012 10 08	F51	Pan-STARRS 1
(590819)	2012 TY_{330}	2012 10 11	F51	Pan-STARRS 1
(590820)	2012 TZ_{330}	2012 10 06	703	CSS
(590821)	2012 TJ_{332}	2015 04 16	F51	Pan-STARRS 1
(590822)	2012 TA_{333}	2014 02 20	G96	Mount Lemmon Survey
(590823)	2012 TN_{333}	2015 03 21	F51	Pan-STARRS 1
(590824)	2012 TD_{336}	2003 09 17	F51	Spacewatch
(590825)	2012 TA_{337}	2012 10 06	F51	Pan-STARRS 1
(590826)	2012 TB_{357}	2012 10 09	F51	Pan-STARRS 1
(590827)	2012 TE_{358}	2012 10 11	F51	Pan-STARRS 1
(590828)	2012 TK_{359}	2012 10 09	G96	Mount Lemmon Survey
(590829)	2012 TN_{360}	2012 10 14	G96	Mount Lemmon Survey
(590830)	2012 TO_{375}	2012 10 08	F51	Pan-STARRS 1
(590831)	2012 UN_{2}	2005 01 16	G96	Spacewatch
(590832)	2012 UR_{4}	2008 10 07	G96	Mount Lemmon Survey
(590833)	2012 US_{14}	2012 10 16	G96	Mount Lemmon Survey
(590834)	2012 UV_{17}	2010 03 18	G96	Spacewatch
(590835)	2012 UP_{20}	2003 09 16	703	Spacewatch
(590836)	2012 UD_{22}	2012 10 16	G96	Mount Lemmon Survey
(590837)	2012 US_{22}	2012 10 17	G96	Mount Lemmon Survey
(590838)	2012 UM_{26}	2012 10 17	G96	Mount Lemmon Survey
(590839)	2012 UX_{35}	2005 03 11	691	Spacewatch
(590840)	2012 UN_{37}	2000 01 07	G96	Spacewatch
(590841)	2012 UF_{39}	2003 09 25	691	NEAT
(590842)	2012 UQ_{44}	2012 10 06	G96	Spacewatch
(590843)	2012 UR_{52}	2007 09 13	F51	Mount Lemmon Survey
(590844)	2012 UG_{53}	2012 10 05	F51	Dalya, G.
(590845)	2012 UO_{55}	2005 03 10	F51	Mount Lemmon Survey
(590846)	2012 UM_{57}	2003 10 18	F51	Christophe, B.
(590847)	2012 UX_{66}	2012 10 20	691	Spacewatch
(590848)	2012 UT_{82}	2011 08 02	691	Pan-STARRS 1
(590849)	2012 UN_{83}	2007 11 05	691	Spacewatch
(590850)	2012 UH_{86}	2009 01 03	691	Spacewatch
(590851)	2012 UK_{97}	2003 11 22	G96	Kitt Peak
(590852)	2012 UD_{100}	2012 10 18	F51	Pan-STARRS 1
(590853)	2012 UF_{106}	2008 08 21	F51	Spacewatch
(590854)	2012 UG_{106}	2006 11 18	F51	Spacewatch
(590855)	2012 UY_{106}	2010 05 11	F51	Mount Lemmon Survey
(590856)	2012 UU_{109}	2012 09 19	691	Mount Lemmon Survey
(590857)	2012 UV_{111}	2012 10 21	F51	Pan-STARRS 1
(590858)	2012 UB_{120}	2012 10 15	F51	Spacewatch
(590859)	2012 UA_{123}	2007 10 21	F51	Mount Lemmon Survey
(590860)	2012 UU_{133}	2003 09 29	461	LONEOS
(590861)	2012 UM_{135}	2012 10 09	G96	CSS
(590862)	2012 UY_{135}	2011 05 07	926	Mount Lemmon Survey
(590863)	2012 UH_{143}	2012 10 18	F51	Pan-STARRS 1
(590864)	2012 UX_{146}	2012 10 09	F51	Spacewatch
(590865)	2012 UZ_{159}	2003 08 20	F51	AMOS
(590866)	2012 UA_{161}	2003 10 19	G96	Spacewatch
(590867)	2012 UP_{161}	2005 01 19	691	Spacewatch
(590868)	2012 UQ_{162}	2012 10 22	691	Spacewatch
(590869)	2012 UX_{172}	2010 02 18	809	Mount Lemmon Survey
(590870)	2012 UK_{185}	2016 08 01	G96	Pan-STARRS 1
(590871)	2012 UJ_{186}	2012 10 17	G96	Mount Lemmon Survey
(590872)	2012 UQ_{191}	1995 11 23	F51	Spacewatch
(590873)	2012 UX_{191}	2012 10 20	F51	Pan-STARRS 1
(590874)	2012 UG_{216}	2012 10 17	F51	Pan-STARRS 1
(590875)	2012 UO_{217}	2003 11 21	F51	Spacewatch
(590876)	2012 UC_{220}	2012 10 25	691	Spacewatch
(590877)	2012 UY_{220}	2012 10 09	F51	Mount Lemmon Survey
(590878)	2012 VX_{9}	2003 11 19	691	Spacewatch
(590879)	2012 VK_{14}	2012 11 04	G96	Mount Lemmon Survey
(590880)	2012 VM_{16}	2007 11 19	H21	Spacewatch
(590881)	2012 VD_{28}	2005 02 14	G96	Spacewatch
(590882)	2012 VK_{36}	2008 11 06	F51	Mount Lemmon Survey
(590883)	2012 VB_{41}	2012 11 06	F51	Pan-STARRS 1
(590884)	2012 VT_{45}	2005 02 04	G32	Spacewatch
(590885)	2012 VE_{50}	2003 10 23	G96	Wasserman, L. H., Trilling, D. E.
(590886)	2012 VV_{50}	1999 10 15	G96	Spacewatch
(590887)	2012 VJ_{52}	2003 07 08	691	NEAT
(590888)	2012 VB_{53}	2007 07 22	G96	LUSS
(590889)	2012 VE_{58}	2012 11 07	F51	Pan-STARRS 1
(590890)	2012 VO_{60}	2012 11 07	F51	Pan-STARRS 1
(590891)	2012 VZ_{65}	2007 09 10	G96	Spacewatch
(590892)	2012 VP_{66}	2007 09 14	G96	Spacewatch
(590893)	2012 VO_{70}	2012 11 07	F51	Pan-STARRS 1
(590894)	2012 VK_{74}	2002 08 14	F51	NEAT
(590895)	2012 VY_{74}	2012 11 12	621	Bickel, W.
(590896)	2012 VJ_{75}	2012 10 21	G96	Pan-STARRS 1
(590897)	2012 VQ_{78}	2007 09 10	621	Spacewatch
(590898)	2012 VT_{98}	2008 12 03	703	Mount Lemmon Survey
(590899)	2012 VZ_{102}	2002 04 07	J04	Cerro Tololo
(590900)	2012 VO_{110}	2007 10 17	568	Mount Lemmon Survey
(590901)	2012 VB_{115}	2008 11 18	G96	Spacewatch
(590902)	2012 VF_{115}	2006 05 07	F51	Mount Lemmon Survey
(590903)	2012 VZ_{117}	2016 08 09	G96	Pan-STARRS 1
(590904)	2012 VD_{127}	2012 11 12	G96	Mount Lemmon Survey
(590905)	2012 VY_{128}	2009 02 04	G96	Mount Lemmon Survey
(590906)	2012 WJ_{10}	2010 04 11	C32	Mount Lemmon Survey
(590907)	2012 WR_{12}	2003 11 29	691	Spacewatch
(590908)	2012 WH_{37}	2012 11 26	G96	Mount Lemmon Survey
(590909)	2012 XT_{5}	2012 12 04	G96	Mount Lemmon Survey
(590910)	2012 XE_{7}	2012 10 25	G96	Spacewatch
(590911)	2012 XQ_{9}	2012 10 15	G96	Spacewatch
(590912)	2012 XL_{20}	2001 10 25	G96	SDSS Collaboration
(590913)	2012 XS_{22}	2007 11 04	G96	Mount Lemmon Survey
(590914)	2012 XF_{25}	2012 10 22	G96	Pan-STARRS 1

(590915)	2012 XG_{30}	2010 01 06	G96	Spacewatch
(590916)	2012 XK_{34}	2012 12 03	G96	Mount Lemmon Survey
(590917)	2012 XX_{34}	2012 11 12	G96	Mount Lemmon Survey
(590918)	2012 XA_{36}	2012 12 03	G96	Mount Lemmon Survey
(590919)	2012 XY_{42}	2012 12 03	G96	Mount Lemmon Survey
(590920)	2012 XH_{51}	2012 10 08	G96	Mount Lemmon Survey
(590921)	2012 XD_{61}	2012 11 12	G96	Mount Lemmon Survey
(590922)	2012 XR_{72}	2012 12 06	G96	Mount Lemmon Survey
(590923)	2012 XE_{78}	2012 12 06	G96	Mount Lemmon Survey
(590924)	2012 XU_{78}	2008 10 21	G96	Mount Lemmon Survey
(590925)	2012 XG_{96}	2012 12 04	691	Spacewatch
(590926)	2012 XZ_{99}	2012 11 13	G96	Spacewatch
(590927)	2012 XM_{113}	2012 10 05	C85	Spacewatch
(590928)	2012 XN_{124}	2012 12 09	F51	Pan-STARRS 1
(590929)	2012 XO_{128}	2007 09 10	691	Spacewatch
(590930)	2012 XP_{141}	2007 09 14	G96	Mount Lemmon Survey
(590931)	2012 XX_{144}	2012 12 08	G96	Mount Lemmon Survey
(590932)	2012 XP_{146}	2012 11 06	G96	Spacewatch
(590933)	2012 XM_{147}	2011 09 21	G96	Mount Lemmon Survey
(590934)	2012 XM_{149}	2007 09 13	G96	CSS
(590935)	2012 XZ_{149}	2004 02 11	F51	Spacewatch
(590936)	2012 XC_{160}	2012 12 12	G96	Mount Lemmon Survey
(590937)	2012 XH_{167}	2015 08 12	G96	Pan-STARRS 1
(590938)	2012 XH_{169}	2012 12 12	G96	Mount Lemmon Survey
(590939)	2012 XQ_{170}	2012 12 09	G96	Mount Lemmon Survey
(590940)	2012 XN_{171}	2012 12 08	691	Spacewatch
(590941)	2012 XR_{175}	2012 12 11	G96	Mount Lemmon Survey
(590942)	2012 YE_{1}	2011 11 25	J43	Pan-STARRS 1
(590943)	2012 YR_{2}	2003 11 19	J43	NEAT
(590944)	2012 YT_{9}	2014 01 10	F51	Mount Lemmon Survey
(590945)	2012 YJ_{12}	2012 12 23	F51	Pan-STARRS 1
(590946)	2012 YK_{17}	2012 12 23	F51	Pan-STARRS 1
(590947)	2012 YO_{22}	2012 12 22	F51	Pan-STARRS 1
(590948)	2013 AU_{20}	2013 01 03	703	CSS
(590949)	2013 AC_{24}	2013 01 06	G96	Mount Lemmon Survey
(590950)	2013 AF_{30}	2011 09 27	G96	Mount Lemmon Survey
(590951)	2013 AA_{35}	2007 12 04	G96	Mount Lemmon Survey
(590952)	2013 AU_{35}	2011 11 25	691	Pan-STARRS 1
(590953)	2013 AY_{48}	2013 01 07	F51	Pan-STARRS 1
(590954)	2013 AH_{58}	2013 01 06	691	Spacewatch
(590955)	2013 AH_{69}	2002 02 14	691	Spacewatch
(590956)	2013 AY_{77}	2013 01 10	691	Spacewatch
(590957)	2013 AY_{82}	2012 12 11	G96	Spacewatch
(590958)	2013 AU_{88}	2013 01 14	J04	ESA OGS
(590959)	2013 AD_{90}	2010 12 13	J04	Mount Lemmon Survey
(590960)	2013 AN_{90}	2013 01 15	H21	Holmes, R.
(590961)	2013 AS_{91}	2005 07 06	691	Spacewatch
(590962)	2013 AB_{93}	2004 02 11	F51	Spacewatch
(590963)	2013 AH_{94}	2001 02 17	G84	AMOS
(590964)	2013 AM_{95}	2012 12 08	G96	Spacewatch
(590965)	2013 AW_{97}	2013 01 05	G96	Mount Lemmon Survey
(590966)	2013 AM_{98}	2013 01 06	G96	Mount Lemmon Survey
(590967)	2013 AT_{101}	2013 01 04	J04	Spacewatch
(590968)	2013 AV_{101}	2006 08 29	703	LUSS
(590969)	2013 AQ_{103}	2013 01 05	G96	Mount Lemmon Survey
(590970)	2013 AO_{106}	2013 01 10	F51	Pan-STARRS 1
(590971)	2013 AE_{109}	2005 05 10	F51	Buie, M. W., Wasserman, L. H.
(590972)	2013 AC_{112}	2013 01 05	J04	Spacewatch
(590973)	2013 AN_{112}	2003 12 18	J04	Spacewatch
(590974)	2013 AG_{117}	2003 03 12	J04	NEAT
(590975)	2013 AK_{122}	2002 04 02	J04	NEAT
(590976)	2013 AE_{124}	2013 01 04	J04	Spacewatch
(590977)	2013 AN_{129}	2003 04 08	F51	Spacewatch
(590978)	2013 AW_{129}	2012 10 20	F51	Mount Lemmon Survey
(590979)	2013 AS_{132}	2008 08 03	691	Siding Spring Survey
(590980)	2013 AT_{132}	2013 01 04	G96	Mount Lemmon Survey
(590981)	2013 AC_{133}	2010 10 29	G96	Mount Lemmon Survey
(590982)	2013 AP_{133}	2010 11 12	691	Mount Lemmon Survey
(590983)	2013 AN_{134}	2009 09 16	691	Spacewatch
(590984)	2013 AR_{134}	2005 09 01	691	Spacewatch
(590985)	2013 AZ_{136}	2013 01 09	F51	Spacewatch
(590986)	2013 AB_{141}	2003 03 27	W84	NEAT
(590987)	2013 AO_{142}	2013 01 04	W84	Cerro Tololo-DECam
(590988)	2013 AE_{146}	2013 01 04	W84	Cerro Tololo-DECam
(590989)	2013 AN_{148}	2006 11 23	W84	Spacewatch
(590990)	2013 AF_{161}	2013 01 20	W84	Mount Lemmon Survey
(590991)	2013 AQ_{161}	2013 01 20	W84	Mount Lemmon Survey
(590992)	2013 AU_{163}	2006 10 21	W84	Spacewatch
(590993)	2013 AF_{164}	2013 01 04	W84	Cerro Tololo-DECam
(590994)	2013 AU_{165}	2008 03 29	W84	Mount Lemmon Survey
(590995)	2013 AP_{168}	2013 01 04	W84	Cerro Tololo-DECam
(590996)	2013 AD_{171}	2013 01 18	W84	Pan-STARRS 1
(590997)	2013 AF_{176}	2009 08 16	W84	Spacewatch
(590998)	2013 AU_{185}	2009 02 04	F51	Mount Lemmon Survey
(590999)	2013 AO_{188}	2013 01 14	F51	Pan-STARRS 1
(591000)	2013 AB_{189}	2013 01 05	G96	Mount Lemmon Survey
(591001)	2013 AC_{190}	2013 01 03	G96	Mount Lemmon Survey
(591002)	2013 AD_{190}	2013 01 10	F51	Pan-STARRS 1
(591003)	2013 AT_{197}	2013 01 10	F51	Pan-STARRS 1
(591004)	2013 AZ_{197}	2013 01 13	G96	Mount Lemmon Survey
(591005)	2013 AB_{198}	2013 01 10	F51	Pan-STARRS 1
(591006)	2013 AF_{199}	2013 01 05	G96	Mount Lemmon Survey
(591007)	2013 AT_{201}	2013 01 14	G96	Mount Lemmon Survey
(591008)	2013 AV_{201}	2013 01 10	F51	Pan-STARRS 1
(591009)	2013 AB_{204}	2013 01 10	F51	Pan-STARRS 1
(591010)	2013 BE	2012 12 23	F51	Pan-STARRS 1
(591011)	2013 BM	2003 03 24	F51	Spacewatch
(591012)	2013 BP	2012 09 27	F51	Pan-STARRS 1
(591013)	2013 BN_{3}	2002 02 11	F51	LINEAR
(591014)	2013 BK_{4}	2005 03 08	G96	LONEOS
(591015)	2013 BR_{7}	2012 12 23	F51	Pan-STARRS 1
(591016)	2013 BH_{8}	2009 09 27	F51	Mount Lemmon Survey
(591017)	2013 BH_{11}	2010 11 03	F51	Mount Lemmon Survey
(591018)	2013 BL_{12}	2013 01 16	F51	Pan-STARRS 1

(591019)	2013 BH_{15}	2010 10 13	F51	Mount Lemmon Survey
(591020)	2013 BS_{16}	2002 02 13	F51	SDSS Collaboration
(591021)	2013 BG_{19}	2013 01 16	G84	Kostin, A., Vorobjov, T.
(591022)	2013 BC_{20}	2008 02 09	G96	Mount Lemmon Survey
(591023)	2013 BH_{21}	2013 01 06	F51	Spacewatch
(591024)	2013 BV_{26}	2010 11 03	F51	Mount Lemmon Survey
(591025)	2013 BT_{32}	2013 01 16	F51	Pan-STARRS 1
(591026)	2013 BM_{33}	2013 01 17	691	Spacewatch
(591027)	2013 BB_{34}	2011 08 23	F51	Pan-STARRS 1
(591028)	2013 BG_{34}	2013 01 17	F51	Pan-STARRS 1
(591029)	2013 BP_{34}	2012 09 27	F51	Pan-STARRS 1
(591030)	2013 BU_{36}	2010 11 02	G96	Mount Lemmon Survey
(591031)	2013 BP_{38}	2012 12 23	F51	Pan-STARRS 1
(591032)	2013 BS_{38}	2012 12 23	F51	Pan-STARRS 1
(591033)	2013 BR_{42}	2013 01 05	691	Spacewatch
(591034)	2013 BT_{43}	2013 01 06	691	Spacewatch
(591035)	2013 BC_{44}	2013 01 19	G96	Mount Lemmon Survey
(591036)	2013 BK_{44}	2008 01 01	G96	Mount Lemmon Survey
(591037)	2013 BO_{44}	2006 10 04	G96	Mount Lemmon Survey
(591038)	2013 BT_{52}	2010 02 18	G96	Mount Lemmon Survey
(591039)	2013 BP_{56}	2008 02 02	G96	Mount Lemmon Survey
(591040)	2013 BN_{58}	2008 01 11	G96	Mount Lemmon Survey
(591041)	2013 BD_{60}	2008 08 07	691	Spacewatch
(591042)	2013 BG_{63}	2013 01 18	691	Spacewatch
(591043)	2013 BM_{67}	2012 12 22	F51	Pan-STARRS 1
(591044)	2013 BL_{74}	2012 12 23	F51	Pan-STARRS 1
(591045)	2013 BN_{74}	2001 08 19	807	Cerro Tololo
(591046)	2013 BB_{75}	2013 01 17	F51	Pan-STARRS 1
(591047)	2013 BY_{75}	2006 01 23	691	Spacewatch
(591048)	2013 BU_{82}	2010 11 03	G96	Mount Lemmon Survey
(591049)	2013 BU_{90}	2014 04 05	F51	Pan-STARRS 1
(591050)	2013 BQ_{91}	2013 01 19	691	Spacewatch
(591051)	2013 BS_{91}	2013 01 16	F51	Pan-STARRS 1
(591052)	2013 BN_{92}	2013 01 16	G96	Mount Lemmon Survey
(591053)	2013 BM_{93}	2013 01 16	703	CSS
(591054)	2013 BM_{95}	2013 01 18	G96	Mount Lemmon Survey
(591055)	2013 BZ_{95}	2013 01 19	691	Spacewatch
(591056)	2013 BM_{98}	2013 01 22	691	Spacewatch
(591057)	2013 CX_{1}	2013 01 10	G96	Pan-STARRS 1
(591058)	2013 CB_{2}	2013 01 22	G96	Mount Lemmon Survey
(591059)	2013 CC_{9}	2013 01 10	G96	Spacewatch
(591060)	2013 CS_{10}	2011 10 18	J43	Mount Lemmon Survey
(591061)	2013 CK_{12}	2011 11 02	691	Mount Lemmon Survey
(591062)	2013 CX_{14}	2013 01 09	691	Spacewatch
(591063)	2013 CO_{20}	2011 11 24	J43	Pan-STARRS 1
(591064)	2013 CY_{23}	2012 12 08	691	Mount Lemmon Survey
(591065)	2013 CH_{24}	2006 11 16	691	CSS
(591066)	2013 CF_{26}	2008 10 27	F51	Mount Lemmon Survey
(591067)	2013 CE_{28}	2013 01 18	J43	Mount Lemmon Survey
(591068)	2013 CR_{37}	2007 09 12	F51	Mount Lemmon Survey
(591069)	2013 CE_{38}	2007 11 07	703	Mount Lemmon Survey
(591070)	2013 CA_{39}	2007 12 06	691	Spacewatch
(591071)	2013 CP_{40}	2013 02 02	G96	Mount Lemmon Survey
(591072)	2013 CY_{42}	2011 11 27	691	Mount Lemmon Survey
(591073)	2013 CJ_{46}	2011 09 18	G96	Armstrong, J. D.
(591074)	2013 CU_{46}	2003 03 23	G96	SDSS Collaboration
(591075)	2013 CV_{48}	1997 02 03	691	Spacewatch
(591076)	2013 CW_{57}	2013 02 09	J43	Rinner, C.
(591077)	2013 CB_{59}	2002 02 08	G96	Spacewatch
(591078)	2013 CX_{64}	2013 02 08	F51	Pan-STARRS 1
(591079)	2013 CC_{73}	2013 01 07	F51	Spacewatch
(591080)	2013 CZ_{76}	2004 06 22	926	Spacewatch
(591081)	2013 CX_{83}	2013 02 05	691	Spacewatch
(591082)	2013 CK_{96}	2007 08 10	F51	Spacewatch
(591083)	2013 CT_{98}	2013 01 17	F51	Mount Lemmon Survey
(591084)	2013 CA_{100}	2013 01 17	F51	Spacewatch
(591085)	2013 CX_{100}	2008 09 06	F51	Mount Lemmon Survey
(591086)	2013 CM_{104}	2005 09 14	F51	Spacewatch
(591087)	2013 CH_{111}	2008 09 25	F51	Mount Lemmon Survey
(591088)	2013 CD_{112}	2008 10 03	F51	Mount Lemmon Survey
(591089)	2013 CY_{113}	2008 02 28	F51	Mount Lemmon Survey
(591090)	2013 CG_{114}	2013 02 10	F51	Pan-STARRS 1
(591091)	2013 CW_{115}	2010 09 04	F51	Kocher, P.
(591092)	2013 CK_{116}	2004 11 10	J04	Buie, M. W., Wasserman, L. H.
(591093)	2013 CC_{117}	2003 01 26	J04	AMOS
(591094)	2013 CX_{117}	2003 04 01	F51	SDSS Collaboration
(591095)	2013 CR_{123}	2013 02 12	J04	ESA OGS
(591096)	2013 CF_{126}	2013 02 13	F51	Pan-STARRS 1
(591097)	2013 CT_{126}	2008 02 07	J43	Spacewatch
(591098)	2013 CW_{126}	2008 02 09	J43	Spacewatch
(591099)	2013 CV_{130}	2002 02 14	F51	Spacewatch
(591100)	2013 CO_{132}	2013 02 14	F51	Pan-STARRS 1
(591101)	2013 CK_{135}	2009 09 29	F51	Mount Lemmon Survey
(591102)	2013 CL_{135}	2008 09 02	F51	Spacewatch
(591103)	2013 CK_{137}	2007 01 12	F51	Yeung, W. K. Y.
(591104)	2013 CL_{138}	2013 01 17	J04	Mount Lemmon Survey
(591105)	2013 CG_{139}	2004 02 13	691	Spacewatch
(591106)	2013 CH_{140}	2001 09 19	691	SDSS Collaboration
(591107)	2013 CJ_{140}	2013 01 20	691	Spacewatch
(591108)	2013 CZ_{143}	2013 02 14	G96	Mount Lemmon Survey
(591109)	2013 CT_{146}	2013 02 14	691	Spacewatch
(591110)	2013 CZ_{146}	2008 04 04	691	Mount Lemmon Survey
(591111)	2013 CJ_{148}	2013 02 01	691	Spacewatch
(591112)	2013 CU_{148}	2005 09 29	691	Mount Lemmon Survey
(591113)	2013 CR_{149}	2013 02 14	691	Spacewatch
(591114)	2013 CA_{150}	2008 02 28	691	Spacewatch
(591115)	2013 CR_{154}	2010 09 01	F51	Mount Lemmon Survey
(591116)	2013 CN_{166}	2008 03 31	G96	Spacewatch
(591117)	2013 CD_{169}	2008 03 27	J04	Mount Lemmon Survey
(591118)	2013 CE_{170}	2008 03 27	F51	Spacewatch
(591119)	2013 CB_{171}	2013 02 15	F51	Pan-STARRS 1
(591120)	2013 CS_{172}	2010 09 10	F51	Spacewatch
(591121)	2013 CB_{173}	2006 01 31	F51	Spacewatch
(591122)	2013 CW_{177}	2005 10 27	F51	Spacewatch

(591123)	2013 CZ_{177}	2013 02 08	F51	Pan-STARRS 1
(591124)	2013 CA_{179}	2013 01 09	F51	Spacewatch
(591125)	2013 CX_{179}	1996 04 16	F51	AMOS
(591126)	2013 CU_{181}	2005 10 01	G96	Spacewatch
(591127)	2013 CY_{181}	2011 10 26	G96	Ivashchenko, Y., Kyrylenko, P.
(591128)	2013 CV_{184}	2008 11 07	691	Mount Lemmon Survey
(591129)	2013 CS_{186}	2008 04 03	D29	Spacewatch
(591130)	2013 CL_{192}	2011 10 25	926	Pan-STARRS 1
(591131)	2013 CJ_{194}	2013 02 09	F51	Pan-STARRS 1
(591132)	2013 CY_{195}	2005 07 17	F51	NEAT
(591133)	2013 CL_{198}	2013 02 14	691	Spacewatch
(591134)	2013 CU_{198}	2010 04 08	F51	Spacewatch
(591135)	2013 CG_{204}	2009 09 16	F51	Spacewatch
(591136)	2013 CH_{204}	2010 11 08	F51	Mount Lemmon Survey
(591137)	2013 CJ_{207}	2009 11 17	J04	Mount Lemmon Survey
(591138)	2013 CK_{207}	2011 11 25	F51	Pan-STARRS 1
(591139)	2013 CN_{208}	2005 07 05	G96	Mount Lemmon Survey
(591140)	2013 CW_{209}	2013 02 02	G96	Mount Lemmon Survey
(591141)	2013 CP_{211}	2007 09 14	G96	Mount Lemmon Survey
(591142)	2013 CR_{212}	2009 09 21	691	Spacewatch
(591143)	2013 CO_{213}	2011 10 25	F51	Mount Lemmon Survey
(591144)	2013 CY_{214}	2013 02 08	F51	Pan-STARRS 1
(591145)	2013 CK_{215}	2011 10 24	F51	Pan-STARRS 1
(591146)	2013 CK_{217}	2013 01 17	J43	Pan-STARRS 1
(591147)	2013 CN_{218}	2013 02 08	F51	Pan-STARRS 1
(591148)	2013 CP_{220}	2013 02 09	F51	Pan-STARRS 1
(591149)	2013 CH_{223}	2009 09 17	F51	Spacewatch
(591150)	2013 CQ_{223}	2010 12 14	F51	Mount Lemmon Survey
(591151)	2013 CR_{223}	2009 09 15	F51	Spacewatch
(591152)	2013 CE_{227}	2010 09 19	691	Spacewatch
(591153)	2013 CH_{229}	2013 02 07	691	Spacewatch
(591154)	2013 CO_{229}	2007 01 26	F51	Spacewatch
(591155)	2013 CT_{229}	2015 07 27	G96	Pan-STARRS 1
(591156)	2013 CE_{230}	2000 02 05	691	Spacewatch
(591157)	2013 CV_{230}	2013 02 15	F51	Pan-STARRS 1
(591158)	2013 CA_{234}	2013 02 13	F51	Pan-STARRS 1
(591159)	2013 CO_{234}	2015 12 08	F51	Mount Lemmon Survey
(591160)	2013 CX_{238}	2012 01 26	F51	Pan-STARRS 1
(591161)	2013 CS_{239}	2013 02 14	F51	Pan-STARRS 1
(591162)	2013 CC_{240}	2013 02 09	F51	Pan-STARRS 1
(591163)	2013 CS_{240}	2013 02 13	F51	Pan-STARRS 1
(591164)	2013 CU_{240}	2013 02 06	691	Spacewatch
(591165)	2013 CV_{240}	2013 02 15	F51	Pan-STARRS 1
(591166)	2013 CA_{241}	2013 02 09	F51	Pan-STARRS 1
(591167)	2013 CG_{241}	2013 02 15	F51	Pan-STARRS 1
(591168)	2013 CL_{242}	2013 02 09	F51	Pan-STARRS 1
(591169)	2013 CY_{242}	2013 02 11	703	CSS
(591170)	2013 DY_{3}	2011 11 24	G96	Mount Lemmon Survey
(591171)	2013 DO_{4}	2007 01 09	G96	Mount Lemmon Survey
(591172)	2013 DY_{6}	2006 01 09	691	Spacewatch
(591173)	2013 DK_{10}	2003 03 12	G96	Spacewatch
(591174)	2013 DZ_{11}	2013 02 08	G96	Pan-STARRS 1
(591175)	2013 DK_{13}	2009 04 30	703	Spacewatch
(591176)	2013 DW_{13}	2013 02 17	G96	Mount Lemmon Survey
(591177)	2013 DC_{18}	2013 02 17	G96	Mount Lemmon Survey
(591178)	2013 EW_{1}	2013 02 14	G96	Pan-STARRS 1
(591179)	2013 EU_{9}	2013 03 04	E12	Siding Spring Survey
(591180)	2013 EA_{12}	2013 02 14	691	Pan-STARRS 1
(591181)	2013 EE_{12}	2013 02 07	691	Spacewatch
(591182)	2013 EQ_{13}	2008 04 14	G96	Mount Lemmon Survey
(591183)	2013 ET_{13}	2004 09 16	G96	Spacewatch
(591184)	2013 EG_{17}	2010 11 06	F51	Mount Lemmon Survey
(591185)	2013 EZ_{18}	2013 02 14	G96	Pan-STARRS 1
(591186)	2013 EQ_{19}	2005 12 04	F51	Spacewatch
(591187)	2013 EK_{22}	2011 11 30	G96	Mount Lemmon Survey
(591188)	2013 EJ_{23}	2008 08 24	F51	Spacewatch
(591189)	2013 ET_{25}	2013 03 07	691	Spacewatch
(591190)	2013 EZ_{26}	2010 09 16	G96	Mount Lemmon Survey
(591191)	2013 EV_{29}	2005 11 03	703	Mount Lemmon Survey
(591192)	2013 ED_{30}	2013 01 09	691	Spacewatch
(591193)	2013 EJ_{31}	2010 10 17	691	Elenin, L.
(591194)	2013 EK_{33}	2009 05 27	G96	Palomar Transient Factory
(591195)	2013 EO_{33}	2002 03 15	D03	NEAT
(591196)	2013 EV_{38}	2013 02 17	F51	Spacewatch
(591197)	2013 EU_{41}	2002 02 14	F51	Spacewatch
(591198)	2013 EN_{43}	2010 09 02	F51	Mount Lemmon Survey
(591199)	2013 EN_{45}	2013 03 06	F51	Pan-STARRS 1
(591200)	2013 ET_{47}	2005 08 28	F51	Spacewatch
(591201)	2013 ED_{48}	2013 03 06	F51	Pan-STARRS 1
(591202)	2013 EP_{49}	2008 10 09	F51	Spacewatch
(591203)	2013 EH_{56}	2007 03 10	F51	Mount Lemmon Survey
(591204)	2013 EW_{64}	2010 10 30	F51	Mount Lemmon Survey
(591205)	2013 EQ_{69}	2013 02 14	G96	Pan-STARRS 1
(591206)	2013 EJ_{70}	2010 09 10	G96	Mount Lemmon Survey
(591207)	2013 ET_{71}	2013 03 07	G96	Mount Lemmon Survey
(591208)	2013 EL_{73}	2008 04 29	G96	Spacewatch
(591209)	2013 EF_{76}	2006 12 16	F51	Mount Lemmon Survey
(591210)	2013 EK_{81}	2005 10 25	F51	Spacewatch
(591211)	2013 EV_{84}	2004 08 13	F51	Cerro Tololo
(591212)	2013 EZ_{84}	2010 10 28	F51	Mount Lemmon Survey
(591213)	2013 EN_{87}	2008 04 06	I41	Mount Lemmon Survey
(591214)	2013 EF_{89}	2013 03 13	G96	CSS
(591215)	2013 EX_{90}	2005 10 07	926	Mauna Kea
(591216)	2013 EL_{94}	2002 01 09	F51	LINEAR
(591217)	2013 EV_{95}	2010 10 11	F51	Mount Lemmon Survey
(591218)	2013 EW_{103}	2011 11 28	G96	Mount Lemmon Survey
(591219)	2013 EG_{105}	2010 05 05	691	Mount Lemmon Survey
(591220)	2013 EV_{105}	2013 03 13	G96	Mount Lemmon Survey
(591221)	2013 ER_{112}	2006 12 13	I41	Spacewatch
(591222)	2013 EY_{115}	2013 02 17	691	Spacewatch
(591223)	2013 ER_{124}	2013 03 13	691	Spacewatch
(591224)	2013 EW_{125}	2013 03 15	691	Spacewatch
(591225)	2013 EK_{126}	2005 11 25	G96	Mount Lemmon Survey
(591226)	2013 EO_{127}	2008 02 28	F51	Spacewatch

(591227)	2013 EZ_{128}	2010 08 10	G96	Spacewatch
(591228)	2013 ED_{129}	2006 12 21	G96	Spacewatch
(591229)	2013 EZ_{136}	2010 10 09	695	Mount Lemmon Survey
(591230)	2013 EV_{139}	2010 10 11	695	Mount Lemmon Survey
(591231)	2013 ED_{140}	2013 01 10	695	Pan-STARRS 1
(591232)	2013 EA_{149}	2013 03 13	695	Buie, M. W.
(591233)	2013 EN_{152}	2003 09 28	695	Spacewatch
(591234)	2013 ED_{159}	2013 03 05	G96	Mount Lemmon Survey
(591235)	2013 ES_{159}	2013 03 08	F51	Pan-STARRS 1
(591236)	2013 EC_{163}	2013 03 14	703	CSS
(591237)	2013 EL_{163}	2013 03 05	F51	Pan-STARRS 1
(591238)	2013 EU_{163}	2013 03 05	G96	Mount Lemmon Survey
(591239)	2013 EL_{165}	2016 10 28	G96	Pan-STARRS 1
(591240)	2013 EZ_{167}	2013 03 14	691	Spacewatch
(591241)	2013 ES_{169}	2013 03 13	G96	Mount Lemmon Survey
(591242)	2013 EL_{170}	2013 03 04	F51	Pan-STARRS 1
(591243)	2013 EZ_{170}	2013 03 05	F51	Pan-STARRS 1
(591244)	2013 EV_{171}	2013 03 13	G96	Mount Lemmon Survey
(591245)	2013 FS_{4}	2013 03 11	691	Mount Lemmon Survey
(591246)	2013 FR_{5}	2008 03 31	I41	Mount Lemmon Survey
(591247)	2013 FD_{6}	2007 01 25	I41	Spacewatch
(591248)	2013 FO_{7}	2007 02 08	I41	Mount Lemmon Survey
(591249)	2013 FQ_{9}	2010 10 17	G96	Mount Lemmon Survey
(591250)	2013 FS_{11}	2011 11 24	I41	Pan-STARRS 1
(591251)	2013 FK_{12}	2013 03 19	I41	Palomar Transient Factory
(591252)	2013 FX_{17}	2009 01 31	G96	Spacewatch
(591253)	2013 FU_{20}	2013 03 19	G96	Pan-STARRS 1
(591254)	2013 FH_{21}	2013 03 19	G96	Pan-STARRS 1
(591255)	2013 FZ_{22}	2013 03 14	691	Palomar Transient Factory
(591256)	2013 FL_{23}	2006 02 20	G96	Spacewatch
(591257)	2013 FZ_{23}	2005 10 01	G96	Spacewatch
(591258)	2013 FG_{24}	2006 03 26	G96	Spacewatch
(591259)	2013 FZ_{24}	2006 03 24	G96	Mount Lemmon Survey
(591260)	2013 FH_{26}	2013 03 23	I41	Palomar Transient Factory
(591261)	2013 FG_{30}	2013 03 23	G96	Mount Lemmon Survey
(591262)	2013 GG_{4}	2013 03 12	G96	Mount Lemmon Survey
(591263)	2013 GU_{10}	2010 10 13	G96	Mount Lemmon Survey
(591264)	2013 GD_{11}	2013 03 11	691	Spacewatch
(591265)	2013 GE_{13}	2007 01 27	G32	Spacewatch
(591266)	2013 GP_{13}	2005 12 02	I41	Mauna Kea
(591267)	2013 GR_{13}	2002 02 07	I41	NEAT
(591268)	2013 GZ_{17}	2007 03 14	F51	CSS
(591269)	2013 GL_{24}	2013 03 13	691	Pan-STARRS 1
(591270)	2013 GZ_{26}	2013 04 05	I41	Palomar Transient Factory
(591271)	2013 GM_{31}	2011 10 24	G96	Pan-STARRS 1
(591272)	2013 GY_{32}	2004 09 07	G96	Spacewatch
(591273)	2013 GV_{33}	2007 03 20	G96	Mount Lemmon Survey
(591274)	2013 GP_{36}	2007 03 23	G96	Černis, K., Zdanavicius, J.
(591275)	2013 GB_{38}	2010 11 11	G96	Mount Lemmon Survey
(591276)	2013 GN_{48}	2006 10 03	691	Mount Lemmon Survey
(591277)	2013 GX_{50}	2007 11 04	G96	Mount Lemmon Survey
(591278)	2013 GN_{55}	2005 10 27	F51	Spacewatch
(591279)	2013 GO_{55}	2010 10 14	F51	Rinner, C., Kugel, F.
(591280)	2013 GP_{55}	2007 02 21	I41	Spacewatch
(591281)	2013 GC_{56}	2010 10 11	F51	Mount Lemmon Survey
(591282)	2013 GG_{57}	2010 10 13	691	CSS
(591283)	2013 GJ_{63}	2005 04 02	F51	Mount Lemmon Survey
(591284)	2013 GQ_{64}	2013 03 16	G96	Spacewatch
(591285)	2013 GV_{65}	2013 04 06	F51	Mount Lemmon Survey
(591286)	2013 GS_{69}	2009 01 31	I41	Spacewatch
(591287)	2013 GL_{72}	2013 04 11	J04	ESA OGS
(591288)	2013 GU_{75}	2013 03 12	G96	CSS
(591289)	2013 GO_{78}	2009 01 20	G96	Mount Lemmon Survey
(591290)	2013 GE_{83}	2013 04 14	711	Ries, J. G.
(591291)	2013 GZ_{84}	2010 10 02	G96	Mount Lemmon Survey
(591292)	2013 GV_{86}	2012 01 20	G96	Spacewatch
(591293)	2013 GO_{95}	2002 04 13	926	NEAT
(591294)	2013 GF_{97}	2009 01 20	F51	Spacewatch
(591295)	2013 GN_{98}	2007 04 14	F51	Gierlinger, R.
(591296)	2013 GH_{105}	2010 11 01	F51	Kuli, Z.
(591297)	2013 GY_{106}	2013 04 10	926	Pan-STARRS 1
(591298)	2013 GK_{108}	1996 03 27	F51	Spacewatch
(591299)	2013 GY_{109}	2013 03 18	F51	Spacewatch
(591300)	2013 GC_{110}	2013 03 18	F51	Spacewatch
(591301)	2013 GB_{117}	2013 04 01	F51	Mount Lemmon Survey
(591302)	2013 GE_{121}	2010 10 16	G96	Holmes, R.
(591303)	2013 GL_{129}	2011 09 29	I41	Mount Lemmon Survey
(591304)	2013 GC_{130}	2005 09 29	E12	Mount Lemmon Survey
(591305)	2013 GC_{133}	2005 09 12	G96	Spacewatch
(591306)	2013 GU_{133}	2006 02 27	G96	Spacewatch
(591307)	2013 GC_{135}	2013 04 13	F51	Pan-STARRS 1
(591308)	2013 GD_{141}	2013 04 15	F51	Pan-STARRS 1
(591309)	2013 GF_{142}	2013 04 11	691	Spacewatch
(591310)	2013 GF_{143}	2007 01 27	F51	Spacewatch
(591311)	2013 GG_{143}	2013 04 15	F51	Pan-STARRS 1
(591312)	2013 GP_{145}	2007 02 21	F51	Spacewatch
(591313)	2013 GC_{151}	2013 04 10	F51	Pan-STARRS 1
(591314)	2013 GK_{151}	2013 04 13	F51	Pan-STARRS 1
(591315)	2013 HF_{1}	2005 12 25	B74	Spacewatch
(591316)	2013 HD_{4}	2012 12 22	691	Pan-STARRS 1
(591317)	2013 HM_{12}	2010 07 09	I41	WISE
(591318)	2013 HS_{13}	2002 03 13	G96	Spacewatch
(591319)	2013 HR_{16}	2013 03 16	G96	Spacewatch
(591320)	2013 HX_{17}	2013 04 08	691	Mount Lemmon Survey
(591321)	2013 HT_{33}	2013 04 16	W84	Cerro Tololo-DECam
(591322)	2013 HY_{33}	2009 09 16	W84	Mount Lemmon Survey
(591323)	2013 HS_{37}	2013 04 11	W84	ESA OGS
(591324)	2013 HR_{42}	2001 02 16	W84	Tenagra II
(591325)	2013 HB_{55}	2013 04 09	W84	Pan-STARRS 1
(591326)	2013 HR_{55}	2013 03 13	W84	Spacewatch
(591327)	2013 HH_{56}	2012 02 01	W84	Mount Lemmon Survey
(591328)	2013 HT_{56}	2013 04 16	W84	Cerro Tololo-DECam
(591329)	2013 HH_{67}	2007 03 16	W84	Mount Lemmon Survey
(591330)	2013 HH_{74}	2007 03 18	W84	Spacewatch

(591331)	2013 HE_{76}	2013 04 09	W84	Pan-STARRS 1
(591332)	2013 HL_{82}	2007 09 10	W84	Mount Lemmon Survey
(591333)	2013 HT_{85}	2002 03 10	W84	Spacewatch
(591334)	2013 HH_{88}	2013 04 10	W84	Pan-STARRS 1
(591335)	2013 HJ_{103}	2013 04 16	W84	Cerro Tololo-DECam
(591336)	2013 HY_{105}	2011 10 29	W84	Elenin, L.
(591337)	2013 HR_{108}	2004 10 08	W84	Spacewatch
(591338)	2013 HV_{108}	2004 10 10	W84	Spacewatch
(591339)	2013 HX_{108}	2003 09 29	W84	Spacewatch
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(592054)	2014 NK	2007 01 25	G96	Spacewatch
(592055)	2014 NX_{3}	2014 07 01	F51	Pan-STARRS 1
(592056)	2014 NN_{4}	2007 03 15	F51	Spacewatch
(592057)	2014 NK_{11}	2012 01 26	F51	Mount Lemmon Survey
(592058)	2014 NR_{17}	2008 09 03	F51	Spacewatch

(592059)	2014 NR_{38}	2009 08 16	F51	Spacewatch
(592060)	2014 NS_{39}	2007 03 13	F51	Spacewatch
(592061)	2014 NF_{44}	2014 06 01	F51	Pan-STARRS 1
(592062)	2014 NK_{45}	2003 07 23	G32	NEAT
(592063)	2014 NH_{47}	2014 07 02	F51	Pan-STARRS 1
(592064)	2014 NZ_{65}	2013 08 09	F51	Pan-STARRS 1
(592065)	2014 NO_{69}	2013 04 06	F51	Mount Lemmon Survey
(592066)	2014 NG_{70}	2014 07 02	F51	Pan-STARRS 1
(592067)	2014 ND_{72}	2014 07 08	F51	Pan-STARRS 1
(592068)	2014 NO_{74}	2014 07 04	F51	Pan-STARRS 1
(592069)	2014 NW_{79}	2014 07 04	F51	Pan-STARRS 1
(592070)	2014 NT_{80}	2014 07 01	F51	Pan-STARRS 1
(592071)	2014 NN_{90}	2008 12 01	F51	Spacewatch
(592072)	2014 OT_{1}	2011 09 21	J43	Spacewatch
(592073)	2014 OT_{2}	2013 03 15	G32	Spacewatch
(592074)	2014 OP_{10}	2010 12 03	F51	Mount Lemmon Survey
(592075)	2014 OQ_{10}	2014 07 25	F51	Pan-STARRS 1
(592076)	2014 OU_{14}	2013 01 05	F51	Spacewatch
(592077)	2014 OA_{16}	2009 08 28	F51	Spacewatch
(592078)	2014 OC_{25}	2011 01 02	F51	Mount Lemmon Survey
(592079)	2014 OM_{32}	2014 07 25	F51	Pan-STARRS 1
(592080)	2014 OR_{46}	2006 01 30	F51	Spacewatch
(592081)	2014 OJ_{48}	2001 09 12	F51	Wasserman, L. H., Ryan, E. L.
(592082)	2014 OD_{64}	2008 11 21	F51	Mount Lemmon Survey
(592083)	2014 OY_{65}	2012 03 16	F51	Mount Lemmon Survey
(592084)	2014 OQ_{70}	2012 02 14	F51	Pan-STARRS 1
(592085)	2014 OJ_{75}	2008 09 28	F51	Mount Lemmon Survey
(592086)	2014 OU_{77}	2012 01 26	F51	Pan-STARRS 1
(592087)	2014 OP_{81}	2012 12 23	F51	Pan-STARRS 1
(592088)	2014 OR_{81}	2010 09 10	F51	Spacewatch
(592089)	2014 OA_{85}	2014 06 20	F51	Pan-STARRS 1
(592090)	2014 OM_{104}	2009 08 20	J04	Spacewatch
(592091)	2014 OU_{108}	2010 02 16	F51	Spacewatch
(592092)	2014 OV_{119}	2012 01 18	F51	Bickel, W.
(592093)	2014 OZ_{122}	2009 08 29	F51	Bickel, W.
(592094)	2014 OQ_{155}	2012 01 19	F51	Spacewatch
(592095)	2014 OM_{158}	2010 05 07	F51	Mount Lemmon Survey
(592096)	2014 OE_{164}	2013 04 16	F51	Pan-STARRS 1
(592097)	2014 OQ_{164}	2014 07 27	F51	Pan-STARRS 1
(592098)	2014 OK_{166}	2005 05 02	F51	Spacewatch
(592099)	2014 OM_{167}	2014 06 29	F51	Pan-STARRS 1
(592100)	2014 OL_{170}	2010 11 30	F51	Mount Lemmon Survey
(592101)	2014 OY_{172}	2010 03 15	F51	Mount Lemmon Survey
(592102)	2014 OR_{186}	2009 01 20	F51	Spacewatch
(592103)	2014 OL_{191}	2007 09 04	F51	Mount Lemmon Survey
(592104)	2014 OR_{196}	2009 01 31	F51	Mount Lemmon Survey
(592105)	2014 OK_{200}	2011 09 04	F51	Pan-STARRS 1
(592106)	2014 OH_{206}	2008 10 23	F51	Spacewatch
(592107)	2014 OG_{207}	2008 09 21	G32	Spacewatch
(592108)	2014 OL_{218}	2014 05 09	F51	Pan-STARRS 1
(592109)	2014 OW_{222}	2010 03 16	F51	Mount Lemmon Survey
(592110)	2014 OA_{225}	2007 04 20	F51	Spacewatch
(592111)	2014 OV_{226}	2013 01 20	F51	Spacewatch
(592112)	2014 OL_{233}	2001 10 16	F51	NEAT
(592113)	2014 OE_{237}	2007 02 10	F51	Mount Lemmon Survey
(592114)	2014 OF_{237}	2012 03 02	F51	Mount Lemmon Survey
(592115)	2014 OW_{237}	2011 01 23	F51	Mount Lemmon Survey
(592116)	2014 OB_{244}	2009 08 16	F51	Spacewatch
(592117)	2014 OT_{244}	2008 10 08	F51	Spacewatch
(592118)	2014 OC_{253}	2014 07 29	F51	Pan-STARRS 1
(592119)	2014 OV_{253}	2003 10 22	F51	Spacewatch
(592120)	2014 OY_{256}	2009 08 29	F51	Spacewatch
(592121)	2014 OX_{258}	2014 06 29	F51	Pan-STARRS 1
(592122)	2014 OP_{259}	2010 03 18	F51	Mount Lemmon Survey
(592123)	2014 OT_{259}	2010 11 08	F51	Mount Lemmon Survey
(592124)	2014 OR_{260}	2004 09 13	F51	Spacewatch
(592125)	2014 OG_{262}	2011 09 26	F51	Pan-STARRS 1
(592126)	2014 OQ_{272}	2013 04 16	F51	Pan-STARRS 1
(592127)	2014 OL_{293}	2007 09 10	F51	Spacewatch
(592128)	2014 OO_{297}	2014 05 31	F51	Pan-STARRS 1
(592129)	2014 OP_{297}	2014 07 29	F51	Pan-STARRS 1
(592130)	2014 OT_{297}	2004 08 22	F51	Spacewatch
(592131)	2014 OR_{303}	2010 09 30	F51	Mount Lemmon Survey
(592132)	2014 OW_{307}	2014 07 27	F51	Pan-STARRS 1
(592133)	2014 OT_{315}	2014 07 27	F51	Pan-STARRS 1
(592134)	2014 OK_{320}	2014 06 26	F51	Pan-STARRS 1
(592135)	2014 OA_{341}	2013 04 19	F51	Pan-STARRS 1
(592136)	2014 OJ_{343}	2008 12 04	F51	Spacewatch
(592137)	2014 OA_{346}	2003 08 26	F51	Cerro Tololo
(592138)	2014 OJ_{356}	2013 03 11	F51	Mount Lemmon Survey
(592139)	2014 OW_{358}	2008 09 23	F51	Mount Lemmon Survey
(592140)	2014 ON_{359}	2012 01 29	F51	Mount Lemmon Survey
(592141)	2014 OE_{367}	2011 12 27	F51	Mount Lemmon Survey
(592142)	2014 OG_{379}	2014 06 21	F51	Pan-STARRS 1
(592143)	2014 OO_{381}	2008 03 13	J04	Spacewatch
(592144)	2014 OC_{384}	2009 09 17	F51	Spacewatch
(592145)	2014 OF_{387}	2011 10 28	F51	Mount Lemmon Survey
(592146)	2014 OU_{390}	2012 02 14	F51	Pan-STARRS 1
(592147)	2014 OA_{394}	2014 07 25	F51	Pan-STARRS 1
(592148)	2014 OM_{394}	2014 07 31	F51	Pan-STARRS 1
(592149)	2014 OR_{394}	2014 07 28	F51	Pan-STARRS 1
(592150)	2014 OQ_{439}	2014 07 27	F51	Pan-STARRS 1
(592151)	2014 PR_{3}	2003 09 22	F51	Spacewatch
(592152)	2014 PB_{8}	2007 08 10	F51	Spacewatch
(592153)	2014 PM_{8}	2014 06 05	F51	Pan-STARRS 1
(592154)	2014 PV_{13}	2011 09 28	F51	Spacewatch
(592155)	2014 PE_{15}	2013 02 14	F51	Mount Lemmon Survey
(592156)	2014 PO_{43}	2012 01 04	F51	Mount Lemmon Survey
(592157)	2014 PY_{45}	2013 02 08	F51	Pan-STARRS 1
(592158)	2014 PR_{48}	2003 07 09	F51	Spacewatch
(592159)	2014 PR_{52}	2008 09 05	F51	Spacewatch
(592160)	2014 PD_{60}	2010 12 05	F51	Mount Lemmon Survey
(592161)	2014 PG_{62}	2014 07 26	F51	Pan-STARRS 1
(592162)	2014 PZ_{71}	2003 09 18	F51	NEAT

(592163)	2014 PO_{76}	2009 02 05	F51	Spacewatch
(592164)	2014 PZ_{78}	2005 07 12	F51	Spacewatch
(592165)	2014 PK_{82}	2014 08 06	F51	Pan-STARRS 1
(592166)	2014 PP_{96}	2014 08 03	F51	Pan-STARRS 1
(592167)	2014 QX_{3}	2003 10 03	F51	Spacewatch
(592168)	2014 QG_{6}	2009 09 30	F51	Mount Lemmon Survey
(592169)	2014 QD_{8}	2009 09 15	F51	Spacewatch
(592170)	2014 QK_{20}	2011 11 24	F51	Kryachko, T., Satovski, B.
(592171)	2014 QE_{23}	2001 09 29	F51	NEAT
(592172)	2014 QO_{26}	2006 01 07	F51	Spacewatch
(592173)	2014 QM_{34}	2010 12 11	F51	Mount Lemmon Survey
(592174)	2014 QF_{36}	2003 08 23	F51	NEAT
(592175)	2014 QC_{37}	2014 07 04	F51	Pan-STARRS 1
(592176)	2014 QJ_{37}	2004 08 25	F51	Spacewatch
(592177)	2014 QS_{47}	2011 10 25	F51	Pan-STARRS 1
(592178)	2014 QJ_{51}	2014 07 02	F51	Pan-STARRS 1
(592179)	2014 QK_{52}	2013 03 13	F51	Pan-STARRS 1
(592180)	2014 QQ_{56}	2011 09 27	F51	Mount Lemmon Survey
(592181)	2014 QJ_{58}	2014 07 01	F51	Pan-STARRS 1
(592182)	2014 QC_{62}	2014 07 03	F51	Pan-STARRS 1
(592183)	2014 QJ_{73}	2011 09 19	F51	Pan-STARRS 1
(592184)	2014 QY_{74}	2010 11 14	F51	Spacewatch
(592185)	2014 QW_{76}	2011 11 30	F51	Mount Lemmon Survey
(592186)	2014 QF_{77}	2014 07 01	F51	Pan-STARRS 1
(592187)	2014 QZ_{79}	2007 03 11	F51	Spacewatch
(592188)	2014 QC_{80}	2014 08 20	F51	Pan-STARRS 1
(592189)	2014 QP_{96}	2008 11 20	F51	Spacewatch
(592190)	2014 QC_{106}	2013 01 05	F51	Mount Lemmon Survey
(592191)	2014 QD_{106}	2003 01 13	F51	Spacewatch
(592192)	2014 QT_{107}	2013 01 20	F51	Mount Lemmon Survey
(592193)	2014 QH_{112}	2005 12 30	F51	Spacewatch
(592194)	2014 QJ_{114}	2014 08 20	F51	Pan-STARRS 1
(592195)	2014 QH_{117}	2009 10 24	F51	Spacewatch
(592196)	2014 QE_{119}	2006 02 01	F51	Mount Lemmon Survey
(592197)	2014 QL_{121}	2013 03 08	F51	Pan-STARRS 1
(592198)	2014 QD_{125}	2009 10 22	F51	Mount Lemmon Survey
(592199)	2014 QH_{131}	2011 10 23	F51	Mount Lemmon Survey
(592200)	2014 QK_{131}	2014 08 20	F51	Pan-STARRS 1
(592201)	2014 QL_{132}	2013 03 08	F51	Pan-STARRS 1
(592202)	2014 QM_{136}	2005 10 25	F51	Spacewatch
(592203)	2014 QP_{140}	2003 08 30	F51	Spacewatch
(592204)	2014 QW_{148}	2014 07 31	F51	Pan-STARRS 1
(592205)	2014 QO_{153}	2014 07 01	F51	Pan-STARRS 1
(592206)	2014 QA_{160}	2013 04 13	F51	Pan-STARRS 1
(592207)	2014 QJ_{160}	2014 06 29	F51	Pan-STARRS 1
(592208)	2014 QU_{162}	2014 06 27	F51	Pan-STARRS 1
(592209)	2014 QV_{162}	2008 12 06	F51	Spacewatch
(592210)	2014 QU_{175}	2004 12 18	F51	Mount Lemmon Survey
(592211)	2014 QL_{184}	2005 11 25	F51	Mount Lemmon Survey
(592212)	2014 QH_{187}	2013 03 18	F51	Mount Lemmon Survey
(592213)	2014 QG_{195}	2014 08 22	F51	Pan-STARRS 1
(592214)	2014 QB_{199}	2005 12 30	F51	Spacewatch
(592215)	2014 QR_{200}	2010 10 11	F51	Mount Lemmon Survey
(592216)	2014 QU_{211}	2014 07 26	F51	Pan-STARRS 1
(592217)	2014 QG_{218}	2013 02 11	F51	CSS
(592218)	2014 QN_{232}	2014 08 22	F51	Pan-STARRS 1
(592219)	2014 QQ_{232}	2014 06 23	F51	Mount Lemmon Survey
(592220)	2014 QJ_{240}	2014 08 20	F51	Pan-STARRS 1
(592221)	2014 QZ_{241}	2014 08 22	F51	Pan-STARRS 1
(592222)	2014 QN_{249}	2014 08 22	F51	Pan-STARRS 1
(592223)	2014 QJ_{254}	2004 10 15	F51	Mount Lemmon Survey
(592224)	2014 QD_{268}	2005 12 02	F51	Mauna Kea
(592225)	2014 QU_{272}	1998 09 19	F51	SDSS Collaboration
(592226)	2014 QR_{278}	2003 03 31	F51	Spacewatch
(592227)	2014 QD_{302}	2005 10 07	F51	Mauna Kea
(592228)	2014 QA_{303}	2013 04 15	F51	Pan-STARRS 1
(592229)	2014 QS_{336}	2006 02 22	J04	Mount Lemmon Survey
(592230)	2014 QP_{353}	2003 09 30	F51	Spacewatch
(592231)	2014 QD_{356}	2010 05 07	F51	Mount Lemmon Survey
(592232)	2014 QF_{364}	2003 03 27	F51	Spacewatch
(592233)	2014 QT_{387}	2008 01 31	691	Mount Lemmon Survey
(592234)	2014 QO_{391}	2004 11 02	F51	LONEOS
(592235)	2014 QJ_{392}	2014 08 26	F51	Pan-STARRS 1
(592236)	2014 QO_{392}	2009 04 21	F51	Spacewatch
(592237)	2014 QP_{407}	2014 07 07	691	Pan-STARRS 1
(592238)	2014 QQ_{416}	2010 04 20	G96	Spacewatch
(592239)	2014 QE_{417}	2006 03 25	691	NEAT
(592240)	2014 QX_{418}	2012 01 02	691	Mount Lemmon Survey
(592241)	2014 QS_{419}	2005 10 07	F51	Mauna Kea
(592242)	2014 QM_{422}	2011 10 20	G96	Mount Lemmon Survey
(592243)	2014 QW_{430}	2010 09 18	G96	Mount Lemmon Survey
(592244)	2014 QF_{439}	2013 05 06	F51	Eglitis, I.
(592245)	2014 QR_{441}	2014 08 18	W84	Kent, S., Kron, R.
(592246)	2014 QE_{448}	2005 10 01	F51	Mount Lemmon Survey
(592247)	2014 QH_{451}	2012 01 01	F51	Mount Lemmon Survey
(592248)	2014 QS_{460}	2013 03 15	F51	Spacewatch
(592249)	2014 QW_{463}	2010 11 05	F51	Mount Lemmon Survey
(592250)	2014 QH_{472}	2004 11 10	691	Spacewatch
(592251)	2014 QJ_{477}	2010 06 11	F51	Mount Lemmon Survey
(592252)	2014 QQ_{484}	2004 04 12	F51	Spacewatch
(592253)	2014 QD_{486}	2010 03 21	F51	Mount Lemmon Survey
(592254)	2014 QY_{492}	2014 08 25	F51	Pan-STARRS 1
(592255)	2014 QW_{522}	2014 08 31	F51	Pan-STARRS 1
(592256)	2014 QE_{527}	2014 08 30	F51	Pan-STARRS 1
(592257)	2014 RR_{1}	2014 07 31	G96	Pan-STARRS 1
(592258)	2014 RL_{21}	2012 02 03	F51	Pan-STARRS 1
(592259)	2014 RQ_{26}	2014 06 24	G96	Pan-STARRS 1
(592260)	2014 RF_{37}	2003 09 16	F51	Spacewatch
(592261)	2014 RW_{37}	2003 09 21	F51	Spacewatch
(592262)	2014 RD_{47}	2012 03 14	G96	Mount Lemmon Survey
(592263)	2014 RE_{48}	2013 04 06	F51	Mount Lemmon Survey
(592264)	2014 RU_{56}	1999 02 09	G96	Spacewatch
(592265)	2014 RS_{78}	2014 09 04	F51	Pan-STARRS 1
(592266)	2014 SK_{1}	2014 07 25	F51	Pan-STARRS 1

(592267)	2014 SE_{2}	2014 09 16	G32	Oreshko, A.
(592268)	2014 SE_{12}	2007 09 12	F51	Mount Lemmon Survey
(592269)	2014 SD_{16}	2002 05 18	F51	NEAT
(592270)	2014 SX_{18}	2002 01 14	F51	Spacewatch
(592271)	2014 SX_{32}	2009 03 03	F51	Spacewatch
(592272)	2014 SR_{35}	2004 08 22	F51	Spacewatch
(592273)	2014 SX_{36}	2014 08 20	F51	Pan-STARRS 1
(592274)	2014 SP_{37}	2014 07 07	F51	Pan-STARRS 1
(592275)	2014 SR_{42}	2010 12 14	F51	Mount Lemmon Survey
(592276)	2014 SY_{46}	2007 06 22	F51	Spacewatch
(592277)	2014 SF_{49}	2009 03 18	F51	Spacewatch
(592278)	2014 SM_{51}	2013 04 12	F51	Pan-STARRS 1
(592279)	2014 ST_{51}	2011 11 25	F51	Pan-STARRS 1
(592280)	2014 SZ_{54}	2009 03 24	F51	Mount Lemmon Survey
(592281)	2014 SN_{61}	2006 05 02	F51	Mount Lemmon Survey
(592282)	2014 SA_{67}	2011 10 19	F51	Mount Lemmon Survey
(592283)	2014 SP_{83}	2014 07 30	F51	Pan-STARRS 1
(592284)	2014 SM_{96}	2014 09 18	F51	Pan-STARRS 1
(592285)	2014 SV_{97}	2013 03 08	F51	Pan-STARRS 1
(592286)	2014 SR_{104}	2005 10 05	F51	Spacewatch
(592287)	2014 SM_{114}	2003 09 28	F51	Spacewatch
(592288)	2014 SZ_{136}	2014 08 27	F51	Pan-STARRS 1
(592289)	2014 SS_{142}	2007 09 08	F51	Mount Lemmon Survey
(592290)	2014 SD_{151}	2009 01 20	F51	Mount Lemmon Survey
(592291)	2014 SU_{151}	2006 03 05	F51	Spacewatch
(592292)	2014 SX_{172}	2013 03 12	F51	Mount Lemmon Survey
(592293)	2014 SX_{177}	2007 09 18	F51	Spacewatch
(592294)	2014 SH_{181}	2004 10 15	F51	Mount Lemmon Survey
(592295)	2014 SP_{203}	2005 10 30	F51	Spacewatch
(592296)	2014 SQ_{204}	2009 01 25	F51	Spacewatch
(592297)	2014 SU_{213}	2004 12 16	F51	Spacewatch
(592298)	2014 SU_{225}	2011 11 27	F51	Mount Lemmon Survey
(592299)	2014 SF_{230}	2014 09 19	F51	Pan-STARRS 1
(592300)	2014 SE_{234}	2003 05 02	F51	Spacewatch
(592301)	2014 SB_{239}	2009 09 27	F51	Spacewatch
(592302)	2014 SE_{239}	2003 09 30	F51	Spacewatch
(592303)	2014 SH_{243}	2011 10 20	F51	Mount Lemmon Survey
(592304)	2014 SV_{244}	2009 09 22	F51	Mount Lemmon Survey
(592305)	2014 SC_{245}	2014 08 20	F51	Pan-STARRS 1
(592306)	2014 SW_{246}	2013 04 17	F51	Pan-STARRS 1
(592307)	2014 SS_{248}	2014 08 27	F51	Pan-STARRS 1
(592308)	2014 SJ_{249}	2010 04 09	F51	Spacewatch
(592309)	2014 SO_{250}	2009 10 27	G96	Spacewatch
(592310)	2014 SU_{252}	2005 11 07	G96	Mauna Kea
(592311)	2014 SG_{256}	2007 10 10	F51	Mount Lemmon Survey
(592312)	2014 SY_{258}	2009 11 09	703	Spacewatch
(592313)	2014 SG_{265}	2007 09 13	F51	Mount Lemmon Survey
(592314)	2014 SR_{311}	2011 12 29	691	Mount Lemmon Survey
(592315)	2014 ST_{311}	2014 09 14	703	Mount Lemmon Survey
(592316)	2014 SZ_{313}	2014 09 26	691	Spacewatch
(592317)	2014 SL_{315}	2007 10 15	691	Yeung, W. K. Y.
(592318)	2014 SX_{318}	2009 09 17	F51	Spacewatch
(592319)	2014 SF_{319}	2003 09 22	F51	Spacewatch
(592320)	2014 SD_{321}	2007 10 15	461	Mount Lemmon Survey
(592321)	2014 SN_{323}	2013 04 17	G96	Pan-STARRS 1
(592322)	2014 SV_{331}	2007 10 07	F51	CSS
(592323)	2014 SQ_{334}	2003 05 29	F51	Spacewatch
(592324)	2014 SG_{354}	2007 04 23	F51	Mount Lemmon Survey
(592325)	2014 SS_{359}	2014 09 19	F51	Pan-STARRS 1
(592326)	2014 SW_{399}	2014 09 18	F51	Pan-STARRS 1
(592327)	2014 TB_{3}	2007 09 14	691	Spacewatch
(592328)	2014 TE_{7}	2006 05 06	691	Spacewatch
(592329)	2014 TQ_{9}	2007 10 04	G96	Spacewatch
(592330)	2014 TT_{11}	2003 09 16	F51	Spacewatch
(592331)	2014 TK_{13}	2014 10 01	F51	Pan-STARRS 1
(592332)	2014 TG_{15}	2007 10 13	F51	CSS
(592333)	2014 TB_{20}	2005 03 12	691	Buie, M. W., Wasserman, L. H.
(592334)	2014 TZ_{24}	2003 09 21	G96	Spacewatch
(592335)	2014 TE_{32}	2008 04 14	G96	Mount Lemmon Survey
(592336)	2014 TT_{33}	2006 05 04	G96	Mount Lemmon Survey
(592337)	2014 TQ_{36}	2003 09 22	F51	LONEOS
(592338)	2014 TS_{39}	2014 10 01	703	Pan-STARRS 1
(592339)	2014 TC_{40}	2014 06 30	703	Pan-STARRS 1
(592340)	2014 TR_{46}	2001 02 19	G96	Spacewatch
(592341)	2014 TE_{52}	2012 01 02	G96	Spacewatch
(592342)	2014 TZ_{55}	2007 09 09	G96	Spacewatch
(592343)	2014 TA_{56}	2007 11 02	G96	Spacewatch
(592344)	2014 TK_{69}	2007 12 05	691	Mount Lemmon Survey
(592345)	2014 TF_{71}	2003 10 20	691	Spacewatch
(592346)	2014 TA_{78}	2014 09 14	G96	Spacewatch
(592347)	2014 TC_{79}	2011 10 25	G96	Pan-STARRS 1
(592348)	2014 TE_{80}	2012 01 26	G96	Mount Lemmon Survey
(592349)	2014 TN_{85}	2011 11 28	703	Mount Lemmon Survey
(592350)	2014 TQ_{85}	2003 07 09	703	Spacewatch
(592351)	2014 TN_{90}	2003 09 18	F51	Spacewatch
(592352)	2014 TU_{90}	2007 11 17	G96	Spacewatch
(592353)	2014 TU_{94}	2009 12 18	G96	Mount Lemmon Survey
(592354)	2014 UF	2009 04 21	J43	Bickel, W.
(592355)	2014 UX_{5}	2014 09 25	G96	Spacewatch
(592356)	2014 UJ_{20}	2007 10 07	G96	Mount Lemmon Survey
(592357)	2014 UK_{22}	1996 11 18	691	Spacewatch
(592358)	2014 UR_{24}	2014 10 15	691	CSS
(592359)	2014 UK_{31}	2009 04 24	G96	Mount Lemmon Survey
(592360)	2014 UG_{34}	2014 10 23	G96	Mount Lemmon Survey
(592361)	2014 UY_{44}	2005 04 12	691	Mount Lemmon Survey
(592362)	2014 UE_{45}	2005 05 04	691	Mauna Kea
(592363)	2014 UB_{48}	2012 03 15	691	Mount Lemmon Survey
(592364)	2014 UJ_{51}	2013 08 15	G96	Pan-STARRS 1
(592365)	2014 UH_{74}	2011 11 24	G96	Pan-STARRS 1
(592366)	2014 UE_{80}	2007 11 13	G96	Spacewatch
(592367)	2014 US_{92}	2002 04 10	703	LINEAR
(592368)	2014 UF_{94}	2014 08 29	G96	Pan-STARRS 1
(592369)	2014 UH_{95}	2003 10 19	691	SDSS Collaboration
(592370)	2014 UM_{98}	2007 12 04	691	Spacewatch

(592371) 2014 UE_{118} 2001 01 30 G96 Spacewatch
(592372) 2014 UH_{118} 2010 10 10 G96 Mount Lemmon Survey
(592373) 2014 UM_{122} 2012 01 02 G96 Spacewatch
(592374) 2014 UM_{126} 2007 11 08 703 CSS
(592375) 2014 UE_{128} 2007 09 14 691 Mount Lemmon Survey
(592376) 2014 UY_{130} 2007 12 19 G96 Mount Lemmon Survey
(592377) 2014 UL_{132} 2003 07 09 703 Spacewatch
(592378) 2014 UN_{133} 2009 05 04 691 Mount Lemmon Survey
(592379) 2014 UB_{137} 2003 11 19 691 Spacewatch
(592380) 2014 UQ_{138} 2010 10 29 691 Mount Lemmon Survey
(592381) 2014 UY_{143} 2003 12 19 691 Spacewatch
(592382) 2014 UC_{154} 2013 04 10 F51 Pan-STARRS 1
(592383) 2014 UY_{173} 2006 05 01 F51 Spacewatch
(592384) 2014 UB_{178} 2007 10 10 G96 Mount Lemmon Survey
(592385) 2014 UM_{182} 2003 09 29 F51 Spacewatch
(592386) 2014 UU_{194} 2007 10 10 F51 Mount Lemmon Survey
(592387) 2014 UJ_{195} 2007 11 19 G96 Spacewatch
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(593492) 2015 PJ_{220} 2010 09 10 F51 Mount Lemmon Survey
(593493) 2015 PA_{222} 2013 04 12 F51 Pan-STARRS 1
(593494) 2015 PP_{222} 2014 06 04 F51 Pan-STARRS 1
(593495) 2015 PX_{222} 2014 05 10 F51 Mount Lemmon Survey
(593496) 2015 PB_{231} 2010 07 09 F51 WISE
(593497) 2015 PJ_{233} 2014 02 28 F51 Pan-STARRS 1
(593498) 2015 PP_{235} 2014 04 05 F51 Pan-STARRS 1
(593499) 2015 PZ_{235} 2014 03 23 F51 Spacewatch
(593500) 2015 PB_{237} 2011 10 24 F51 Pan-STARRS 1
(593501) 2015 PN_{247} 2015 07 19 F51 Pan-STARRS 2
(593502) 2015 PO_{249} 2010 10 01 F51 Spacewatch
(593503) 2015 PD_{250} 2008 03 29 F51 Spacewatch
(593504) 2015 PY_{250} 2014 05 07 F51 Pan-STARRS 1
(593505) 2015 PQ_{251} 1998 03 20 F51 Spacewatch
(593506) 2015 PR_{251} 2002 03 09 F51 Spacewatch
(593507) 2015 PB_{258} 2006 12 15 F51 Spacewatch
(593508) 2015 PE_{259} 2014 05 23 F51 Pan-STARRS 1
(593509) 2015 PK_{260} 2015 08 11 F51 Pan-STARRS 1
(593510) 2015 PZ_{260} 2013 02 15 F51 Pan-STARRS 1
(593511) 2015 PN_{264} 2008 02 28 F51 Mount Lemmon Survey
(593512) 2015 PR_{266} 2007 02 08 F51 Mount Lemmon Survey
(593513) 2015 PS_{268} 2010 09 17 F51 Mount Lemmon Survey
(593514) 2015 PY_{268} 2005 08 31 F51 Spacewatch

(593515)	2015 PB_{275}	2010 10 30	F51	Mount Lemmon Survey
(593516)	2015 PX_{275}	2005 10 06	F51	Mount Lemmon Survey
(593517)	2015 PL_{276}	2011 12 27	F51	Spacewatch
(593518)	2015 PA_{282}	2003 04 01	F51	SDSS Collaboration
(593519)	2015 PU_{286}	2010 10 28	F51	Mount Lemmon Survey
(593520)	2015 PZ_{286}	2011 11 30	F51	Mount Lemmon Survey
(593521)	2015 PL_{287}	2011 09 23	F51	Mount Lemmon Survey
(593522)	2015 PN_{288}	2014 05 07	F51	Pan-STARRS 1
(593523)	2015 PW_{288}	2006 11 21	F51	Mount Lemmon Survey
(593524)	2015 PN_{289}	2015 07 24	F51	Pan-STARRS 1
(593525)	2015 PU_{289}	2015 07 24	F51	Pan-STARRS 1
(593526)	2015 PU_{294}	2015 07 24	F51	Pan-STARRS 1
(593527)	2015 PT_{295}	2005 10 02	F51	Mount Lemmon Survey
(593528)	2015 PA_{298}	2015 08 13	F51	Pan-STARRS 1
(593529)	2015 PM_{303}	2014 05 07	F51	Pan-STARRS 1
(593530)	2015 PM_{306}	2013 03 18	F51	Mount Lemmon Survey
(593531)	2015 PO_{308}	2004 07 10	G45	NEAT
(593532)	2015 PU_{311}	2015 07 23	I08	Pan-STARRS 1
(593533)	2015 PX_{313}	2015 08 13	F51	Pan-STARRS 1
(593534)	2015 PB_{322}	2010 10 13	F51	Mount Lemmon Survey
(593535)	2015 PA_{334}	2015 08 12	F51	Pan-STARRS 1
(593536)	2015 PA_{346}	2015 08 10	F52	Pan-STARRS 2
(593537)	2015 QO_{2}	2005 07 09	F51	Spacewatch
(593538)	2015 QA_{4}	2010 10 11	Q60	Mount Lemmon Survey
(593539)	2015 QH_{4}	2015 07 12	C95	Pan-STARRS 1
(593540)	2015 QQ_{4}	2007 02 10	703	Mount Lemmon Survey
(593541)	2015 QD_{5}	2010 10 31	691	Mount Lemmon Survey
(593542)	2015 QP_{5}	2010 09 10	691	Spacewatch
(593543)	2015 QZ_{7}	2007 02 25	691	Spacewatch
(593544)	2015 QQ_{11}	2011 09 29	F51	Mount Lemmon Survey
(593545)	2015 QR_{11}	2009 08 01	F51	Spacewatch
(593546)	2015 QQ_{15}	2015 08 20	691	Spacewatch
(593547)	2015 QC_{17}	2015 08 21	F51	Pan-STARRS 1
(593548)	2015 QJ_{19}	2015 08 21	F51	Pan-STARRS 1
(593549)	2015 QJ_{27}	2015 08 21	F51	Pan-STARRS 1
(593550)	2015 RS_{4}	2015 06 15	F51	Mount Lemmon Survey
(593551)	2015 RA_{7}	2014 04 30	F51	Pan-STARRS 1
(593552)	2015 RA_{11}	2007 02 06	F51	Mount Lemmon Survey
(593553)	2015 RS_{13}	2005 09 29	F51	Spacewatch
(593554)	2015 RG_{15}	2015 07 14	F51	Pan-STARRS 1
(593555)	2015 RY_{15}	2014 05 09	F51	Pan-STARRS 1
(593556)	2015 RG_{16}	2010 09 29	F51	Mount Lemmon Survey
(593557)	2015 RT_{16}	2010 09 03	F51	Mount Lemmon Survey
(593558)	2015 RG_{17}	2015 07 23	F51	Pan-STARRS 1
(593559)	2015 RH_{17}	2009 08 17	F51	CSS
(593560)	2015 RF_{20}	2015 07 25	691	Pan-STARRS 1
(593561)	2015 RJ_{20}	2014 04 05	F51	Pan-STARRS 1
(593562)	2015 RC_{23}	2015 09 06	691	Spacewatch
(593563)	2015 RU_{26}	2005 11 02	D29	Mount Lemmon Survey
(593564)	2015 RT_{27}	2009 08 16	D29	CSS
(593565)	2015 RT_{28}	2015 07 25	D29	Pan-STARRS 1
(593566)	2015 RU_{28}	2004 09 13	D29	LINEAR
(593567)	2015 RD_{32}	2003 04 21	F51	Spacewatch
(593568)	2015 RZ_{40}	2014 04 06	F51	Spacewatch
(593569)	2015 RK_{44}	2007 02 23	F51	Mount Lemmon Survey
(593570)	2015 RA_{51}	2009 08 15	F51	Spacewatch
(593571)	2015 RV_{52}	2004 09 17	F51	Knöfel, A.
(593572)	2015 RA_{59}	2012 01 22	F51	Pan-STARRS 1
(593573)	2015 RL_{59}	2007 02 21	F51	Spacewatch
(593574)	2015 RG_{61}	2009 08 15	F51	Spacewatch
(593575)	2015 RW_{62}	2010 11 15	F51	Mount Lemmon Survey
(593576)	2015 RM_{70}	2010 10 29	F51	Mount Lemmon Survey
(593577)	2015 RY_{70}	2015 06 26	F51	Pan-STARRS 1
(593578)	2015 RQ_{72}	2015 07 23	F51	Pan-STARRS 1
(593579)	2015 RL_{76}	2013 03 13	F51	Pan-STARRS 1
(593580)	2015 RQ_{80}	2013 03 16	F51	Spacewatch
(593581)	2015 RP_{85}	2004 09 10	G45	LINEAR
(593582)	2015 RF_{86}	2004 08 13	G45	NEAT
(593583)	2015 RG_{86}	2010 10 11	G45	Mount Lemmon Survey
(593584)	2015 RF_{88}	2009 08 15	G45	CSS
(593585)	2015 RJ_{96}	2007 02 19	G45	Mount Lemmon Survey
(593586)	2015 RH_{98}	2013 03 06	G45	Pan-STARRS 1
(593587)	2015 RF_{99}	2007 02 21	G45	Mount Lemmon Survey
(593588)	2015 RH_{113}	1998 09 14	F51	Spacewatch
(593589)	2015 RM_{114}	2008 04 14	H21	Mount Lemmon Survey
(593590)	2015 RZ_{114}	2008 04 05	W86	Mount Lemmon Survey
(593591)	2015 RC_{119}	2006 01 05	G45	Spacewatch
(593592)	2015 RE_{120}	1999 10 04	G45	Spacewatch
(593593)	2015 RJ_{121}	2012 01 29	G45	Mount Lemmon Survey
(593594)	2015 RL_{128}	2010 11 16	F51	Mount Lemmon Survey
(593595)	2015 RZ_{132}	2015 08 21	F51	Pan-STARRS 1
(593596)	2015 RN_{147}	2010 10 31	F51	Mount Lemmon Survey
(593597)	2015 RD_{173}	2015 09 09	F51	Pan-STARRS 1
(593598)	2015 RH_{183}	2013 03 08	F51	Pan-STARRS 1
(593599)	2015 RZ_{185}	2007 04 07	F51	Mount Lemmon Survey
(593600)	2015 RK_{193}	2004 10 07	F51	Spacewatch
(593601)	2015 RC_{206}	2007 03 15	F51	Spacewatch
(593602)	2015 RQ_{211}	2005 09 13	F51	Spacewatch
(593603)	2015 RM_{212}	2004 08 23	F51	Spacewatch
(593604)	2015 RX_{213}	2007 02 25	D29	Spacewatch
(593605)	2015 RV_{226}	2015 09 11	F51	Pan-STARRS 1
(593606)	2015 RP_{232}	2009 07 29	F51	Spacewatch
(593607)	2015 RL_{243}	2012 02 27	J43	Pan-STARRS 1
(593608)	2015 RN_{243}	2015 07 25	J43	Pan-STARRS 1
(593609)	2015 RL_{244}	2015 06 26	I08	Pan-STARRS 1
(593610)	2015 RU_{256}	2004 08 08	F51	NEAT
(593611)	2015 RC_{260}	2009 11 09	F51	Mount Lemmon Survey
(593612)	2015 RZ_{260}	2014 05 08	F51	Pan-STARRS 1
(593613)	2015 RQ_{263}	2010 11 14	F51	Spacewatch
(593614)	2015 RU_{271}	2015 09 11	F51	Pan-STARRS 1
(593615)	2015 RD_{274}	2013 02 17	F51	Mount Lemmon Survey
(593616)	2015 RG_{277}	2015 06 23	568	Mauna Kea
(593617)	2015 RN_{278}	2005 08 09	568	Cerro Tololo
(593618)	2015 RT_{290}	2015 09 12	F51	Pan-STARRS 1

(593619)	2015 RW_{301}	2015 09 11	F51	Pan-STARRS 1
(593620)	2015 RM_{309}	2015 09 11	F51	Pan-STARRS 1
(593621)	2015 SR_{3}	2003 07 23	G45	NEAT
(593622)	2015 SM_{4}	2015 09 18	G45	CSS
(593623)	2015 SS_{19}	2015 08 21	F51	Pan-STARRS 1
(593624)	2015 SM_{23}	2010 11 28	F51	CSS
(593625)	2015 SZ_{24}	2015 09 23	F51	Pan-STARRS 1
(593626)	2015 SM_{27}	2015 09 23	F51	Pan-STARRS 1
(593627)	2015 SN_{30}	2012 03 15	G96	Mount Lemmon Survey
(593628)	2015 TF_{8}	2011 12 24	F51	Mount Lemmon Survey
(593629)	2015 TG_{8}	2005 10 28	F51	Spacewatch
(593630)	2015 TD_{9}	2005 12 10	F51	Spacewatch
(593631)	2015 TZ_{9}	2007 01 27	F51	Spacewatch
(593632)	2015 TU_{11}	2010 11 02	F51	Mount Lemmon Survey
(593633)	2015 TC_{13}	2004 08 25	F51	Spacewatch
(593634)	2015 TA_{15}	2014 05 28	F51	Mount Lemmon Survey
(593635)	2015 TH_{15}	2014 05 21	F51	Pan-STARRS 1
(593636)	2015 TS_{15}	2010 10 11	F51	Mount Lemmon Survey
(593637)	2015 TV_{15}	1996 03 13	F51	Spacewatch
(593638)	2015 TT_{28}	2015 08 12	F51	Pan-STARRS 1
(593639)	2015 TN_{30}	2005 12 24	F51	Spacewatch
(593640)	2015 TC_{32}	2014 05 25	F51	Pan-STARRS 1
(593641)	2015 TG_{32}	2014 05 05	F51	Pan-STARRS 1
(593642)	2015 TD_{35}	2014 05 10	F51	Spacewatch
(593643)	2015 TY_{35}	2015 10 08	F51	Pan-STARRS 1
(593644)	2015 TS_{37}	2014 07 07	F51	Pan-STARRS 1
(593645)	2015 TC_{38}	2014 05 28	F51	Pan-STARRS 1
(593646)	2015 TY_{39}	2005 12 08	F51	Spacewatch
(593647)	2015 TD_{41}	2010 11 12	F51	Mount Lemmon Survey
(593648)	2015 TK_{41}	2005 11 26	F51	Spacewatch
(593649)	2015 TX_{42}	2010 11 03	F51	Mount Lemmon Survey
(593650)	2015 TO_{47}	2006 09 17	F51	Spacewatch
(593651)	2015 TQ_{48}	2007 02 23	F51	Mount Lemmon Survey
(593652)	2015 TP_{51}	2005 12 21	F51	Spacewatch
(593653)	2015 TL_{53}	2010 10 17	F51	Mount Lemmon Survey
(593654)	2015 TO_{53}	2008 05 07	F51	Spacewatch
(593655)	2015 TF_{57}	2013 04 10	F51	Pan-STARRS 1
(593656)	2015 TU_{59}	2015 07 25	F51	Pan-STARRS 1
(593657)	2015 TX_{64}	2007 04 26	F51	Spacewatch
(593658)	2015 TH_{96}	2004 04 12	F51	Spacewatch
(593659)	2015 TX_{109}	2006 10 02	F51	Mount Lemmon Survey
(593660)	2015 TO_{129}	2011 01 23	F51	Mount Lemmon Survey
(593661)	2015 TN_{142}	2007 05 11	F51	Mount Lemmon Survey
(593662)	2015 TV_{145}	2004 12 16	J43	Spacewatch
(593663)	2015 TQ_{160}	2015 07 25	F51	Pan-STARRS 1
(593664)	2015 TR_{160}	2013 04 06	F51	Mount Lemmon Survey
(593665)	2015 TZ_{162}	2006 11 15	F51	Spacewatch
(593666)	2015 TQ_{168}	2004 10 15	F51	Spacewatch
(593667)	2015 TG_{181}	2008 02 13	F51	Mount Lemmon Survey
(593668)	2015 TT_{181}	2010 09 16	F51	Spacewatch
(593669)	2015 TZ_{182}	2009 08 18	G96	Spacewatch
(593670)	2015 TK_{189}	2010 10 14	G45	Mount Lemmon Survey
(593671)	2015 TV_{190}	2010 12 11	G45	Mount Lemmon Survey
(593672)	2015 TW_{192}	2004 10 04	G45	Spacewatch
(593673)	2015 TA_{195}	2007 02 17	G45	Mount Lemmon Survey
(593674)	2015 TV_{196}	2007 04 14	G45	Mount Lemmon Survey
(593675)	2015 TB_{197}	2003 09 20	G45	Spacewatch
(593676)	2015 TW_{201}	2004 10 07	703	Spacewatch
(593677)	2015 TK_{202}	2010 11 17	G45	Mount Lemmon Survey
(593678)	2015 TL_{205}	2009 06 24	J43	Mount Lemmon Survey
(593679)	2015 TM_{205}	2005 12 07	J43	Spacewatch
(593680)	2015 TY_{205}	2015 10 10	J43	Rinner, C.
(593681)	2015 TP_{208}	2003 08 20	G45	NEAT
(593682)	2015 TE_{212}	2002 02 19	F51	Spacewatch
(593683)	2015 TX_{213}	2015 09 25	F51	Mount Lemmon Survey
(593684)	2015 TC_{215}	2009 08 20	F51	Spacewatch
(593685)	2015 TJ_{233}	2004 09 16	G45	LINEAR
(593686)	2015 TP_{233}	2006 02 27	G45	Mount Lemmon Survey
(593687)	2015 TC_{240}	2010 11 12	G45	Spacewatch
(593688)	2015 TY_{240}	2010 09 04	G45	Spacewatch
(593689)	2015 TL_{241}	2012 02 16	I41	Pan-STARRS 1
(593690)	2015 TU_{241}	1999 10 19	I41	Spacewatch
(593691)	2015 TJ_{242}	2007 03 16	I41	Mount Lemmon Survey
(593692)	2015 TV_{246}	2015 09 06	F51	Pan-STARRS 1
(593693)	2015 TE_{252}	2006 09 15	F51	Spacewatch
(593694)	2015 TL_{252}	2012 03 16	F51	Pan-STARRS 1
(593695)	2015 TT_{259}	2015 10 03	G45	CSS
(593696)	2015 TV_{262}	2015 10 12	F51	Pan-STARRS 1
(593697)	2015 TX_{262}	2010 10 09	F51	Mount Lemmon Survey
(593698)	2015 TK_{263}	2013 02 18	F51	Spacewatch
(593699)	2015 TQ_{265}	2015 10 12	F51	Pan-STARRS 1
(593700)	2015 TT_{265}	2001 02 02	F51	Spacewatch
(593701)	2015 TM_{266}	2012 02 24	F51	Mount Lemmon Survey
(593702)	2015 TM_{268}	2015 09 24	F51	CSS
(593703)	2015 TX_{279}	2005 11 01	F51	Mount Lemmon Survey
(593704)	2015 TF_{280}	2006 02 28	F51	CSS
(593705)	2015 TD_{284}	2009 09 20	F51	Mount Lemmon Survey
(593706)	2015 TL_{285}	2010 11 06	F51	Mount Lemmon Survey
(593707)	2015 TM_{285}	2010 11 15	F51	Mount Lemmon Survey
(593708)	2015 TJ_{290}	2009 08 20	F51	Spacewatch
(593709)	2015 TH_{295}	2015 10 03	F51	CSS
(593710)	2015 TK_{298}	2004 12 10	G45	LINEAR
(593711)	2015 TR_{316}	2004 01 19	G96	Spacewatch
(593712)	2015 TT_{316}	2004 11 04	F51	Spacewatch
(593713)	2015 TE_{322}	2007 03 13	691	Spacewatch
(593714)	2015 TU_{325}	2007 04 25	F51	Spacewatch
(593715)	2015 TM_{340}	2005 10 30	F51	Mount Lemmon Survey
(593716)	2015 TJ_{346}	2015 08 21	F51	Pan-STARRS 1
(593717)	2015 TQ_{366}	2013 05 05	G96	Pan-STARRS 1
(593718)	2015 TV_{366}	2015 10 09	F51	Pan-STARRS 1
(593719)	2015 TK_{367}	2009 09 19	G96	Mount Lemmon Survey
(593720)	2015 TW_{369}	2009 09 28	F51	Mount Lemmon Survey
(593721)	2015 TR_{372}	2014 05 21	F51	Pan-STARRS 1
(593722)	2015 TJ_{385}	2015 10 13	F51	Pan-STARRS 1

(593723)	2015 TU_{385}	2015 10 09	703	Elenin, L.
(593724)	2015 TU_{386}	2015 10 09	F51	Pan-STARRS 1
(593725)	2015 TE_{411}	2015 10 08	703	CSS
(593726)	2015 TJ_{414}	2015 10 01	G96	Mount Lemmon Survey
(593727)	2015 TO_{436}	2015 10 15	F51	Pan-STARRS 1
(593728)	2015 UE_{5}	2010 09 05	G96	Mount Lemmon Survey
(593729)	2015 UK_{7}	2010 12 06	G45	Mount Lemmon Survey
(593730)	2015 UT_{40}	2015 10 10	F51	Spacewatch
(593731)	2015 UA_{53}	2009 08 17	F51	Spacewatch
(593732)	2015 UD_{55}	2005 09 29	F51	Mount Lemmon Survey
(593733)	2015 UA_{62}	2015 06 26	F51	Pan-STARRS 1
(593734)	2015 UB_{67}	1998 09 25	F51	Spacewatch
(593735)	2015 UQ_{68}	2010 11 02	F51	Spacewatch
(593736)	2015 UG_{69}	2008 03 02	F51	Mount Lemmon Survey
(593737)	2015 UA_{70}	2015 10 22	F51	Pan-STARRS 1
(593738)	2015 UG_{71}	2015 10 22	F51	Pan-STARRS 1
(593739)	2015 UX_{71}	2010 12 02	F51	Mount Lemmon Survey
(593740)	2015 UN_{72}	2013 04 10	F51	Pan-STARRS 1
(593741)	2015 UR_{78}	2010 11 15	F51	Mount Lemmon Survey
(593742)	2015 VV_{3}	2010 11 06	G45	Mount Lemmon Survey
(593743)	2015 VE_{13}	2015 09 18	F51	Mount Lemmon Survey
(593744)	2015 VN_{16}	2015 09 12	F51	Pan-STARRS 1
(593745)	2015 VL_{22}	2012 02 27	F51	Pan-STARRS 1
(593746)	2015 VA_{27}	2009 09 15	F51	CSS
(593747)	2015 VK_{27}	2013 06 07	F51	Pan-STARRS 1
(593748)	2015 VV_{27}	2004 10 11	F51	Spacewatch
(593749)	2015 VJ_{43}	2005 12 01	F51	Mount Lemmon Survey
(593750)	2015 VQ_{43}	2013 02 15	F51	Pan-STARRS 1
(593751)	2015 VY_{43}	2004 08 25	F51	Spacewatch
(593752)	2015 VJ_{44}	2010 10 17	F51	Mount Lemmon Survey
(593753)	2015 VF_{45}	2004 08 22	F51	Spacewatch
(593754)	2015 VN_{49}	2010 10 17	F51	Mount Lemmon Survey
(593755)	2015 VQ_{49}	2007 02 22	F51	Spacewatch
(593756)	2015 VR_{51}	2010 10 29	F51	Mount Lemmon Survey
(593757)	2015 VQ_{52}	2010 12 02	F51	Spacewatch
(593758)	2015 VO_{55}	2012 02 27	F51	Pan-STARRS 1
(593759)	2015 VX_{56}	2010 11 02	F51	Spacewatch
(593760)	2015 VG_{58}	2010 12 02	F51	Mount Lemmon Survey
(593761)	2015 VQ_{58}	2014 06 27	F51	Pan-STARRS 1
(593762)	2015 VS_{60}	2015 10 13	F51	Mount Lemmon Survey
(593763)	2015 VC_{67}	2004 10 10	F51	Spacewatch
(593764)	2015 VC_{73}	2004 10 09	D29	Spacewatch
(593765)	2015 VH_{73}	2014 07 01	F51	Pan-STARRS 1
(593766)	2015 VR_{73}	2010 10 31	F51	Spacewatch
(593767)	2015 VP_{80}	2013 04 13	F51	Pan-STARRS 1
(593768)	2015 VQ_{95}	2004 04 28	G96	Spacewatch
(593769)	2015 VB_{110}	2015 10 09	G45	ESA OGS
(593770)	2015 VM_{111}	2010 12 02	G45	Holmes, R.
(593771)	2015 VC_{122}	2015 10 11	G45	CSS
(593772)	2015 VH_{125}	2008 04 07	G45	Spacewatch
(593773)	2015 VW_{126}	2014 06 30	G96	Pan-STARRS 1
(593774)	2015 VA_{133}	2009 09 28	G45	Spacewatch
(593775)	2015 VV_{133}	2000 03 03	G45	CSS
(593776)	2015 VC_{141}	2003 09 19	198	NEAT
(593777)	2015 VN_{143}	2008 05 08	G45	Mount Lemmon Survey
(593778)	2015 VQ_{186}	2015 11 06	G96	Mount Lemmon Survey
(593779)	2015 VZ_{188}	2015 11 14	G96	Mount Lemmon Survey
(593780)	2015 VB_{204}	2015 11 06	G96	Mount Lemmon Survey
(593781)	2015 WA_{5}	2013 01 19	F51	Mount Lemmon Survey
(593782)	2015 WX_{13}	2004 04 16	V30	Spacewatch
(593783)	2015 XU_{11}	2005 12 05	F51	Spacewatch
(593784)	2015 XE_{14}	2014 06 05	F51	Pan-STARRS 1
(593785)	2015 XF_{23}	2011 01 02	F51	Mount Lemmon Survey
(593786)	2015 XA_{44}	2009 09 21	F51	Spacewatch
(593787)	2015 XH_{59}	2015 12 01	F51	Pan-STARRS 1
(593788)	2015 XS_{68}	2014 07 07	F51	Pan-STARRS 1
(593789)	2015 XA_{76}	2004 03 23	G96	Spacewatch
(593790)	2015 XZ_{90}	2015 11 10	F51	Mount Lemmon Survey
(593791)	2015 XZ_{95}	2005 10 01	F51	Mount Lemmon Survey
(593792)	2015 XF_{136}	2005 10 28	G96	Spacewatch
(593793)	2015 XN_{189}	2009 08 29	F51	CSS
(593794)	2015 XM_{215}	2003 04 11	F51	Spacewatch
(593795)	2015 XB_{221}	2015 12 06	F51	Mount Lemmon Survey
(593796)	2015 XK_{225}	2006 10 22	F51	Spacewatch
(593797)	2015 XK_{246}	2015 07 25	F51	Pan-STARRS 1
(593798)	2015 XA_{262}	2003 07 30	G45	CINEOS
(593799)	2015 XP_{310}	2015 12 08	G96	Mount Lemmon Survey
(593800)	2015 XY_{327}	2005 10 10	F51	Cat, P. D.
(593801)	2015 XK_{336}	2013 02 01	F51	Mount Lemmon Survey
(593802)	2015 XO_{348}	2008 10 10	F51	Mount Lemmon Survey
(593803)	2015 XG_{350}	2005 11 21	G96	Spacewatch
(593804)	2015 XD_{395}	2015 12 13	F51	Pan-STARRS 1
(593805)	2015 XK_{413}	2013 02 15	F51	Pan-STARRS 1
(593806)	2015 YT_{2}	2008 09 28	G96	Mount Lemmon Survey
(593807)	2015 YY_{5}	2003 03 26	G96	Spacewatch
(593808)	2015 YG_{8}	2011 10 19	J43	Spacewatch
(593809)	2016 AN_{12}	2008 12 22	G96	Spacewatch
(593810)	2016 AM_{19}	2009 02 02	G96	Spacewatch
(593811)	2016 AQ_{24}	2009 01 31	F51	Spacewatch
(593812)	2016 AR_{25}	2009 03 19	F51	Spacewatch
(593813)	2016 AT_{28}	2014 09 20	F51	Pan-STARRS 1
(593814)	2016 AL_{29}	2011 08 04	G96	Siding Spring Survey
(593815)	2016 AV_{29}	2008 10 08	G96	CSS
(593816)	2016 AF_{33}	2014 07 25	G96	Pan-STARRS 1
(593817)	2016 AV_{50}	2011 06 11	F51	Pan-STARRS 1
(593818)	2016 AJ_{54}	2011 11 28	F51	Spacewatch
(593819)	2016 AK_{57}	2009 02 04	F51	Mount Lemmon Survey
(593820)	2016 AB_{59}	2008 12 21	F51	Sárneczky, K.
(593821)	2016 AR_{59}	2013 02 03	F51	Pan-STARRS 1
(593822)	2016 AB_{62}	2006 01 23	F51	Spacewatch
(593823)	2016 AJ_{75}	2013 06 07	F51	Pan-STARRS 1
(593824)	2016 AN_{75}	2016 01 04	F51	Pan-STARRS 1
(593825)	2016 AX_{81}	2009 02 02	J04	Spacewatch
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(594195)	2016 LU_{41}	2016 05 30	F51	Pan-STARRS 1
(594196)	2016 LM_{50}	2016 06 02	F51	Mount Lemmon Survey
(594197)	2016 LL_{56}	2016 06 07	F51	Pan-STARRS 1
(594198)	2016 LN_{57}	2012 08 26	F51	Siding Spring Survey
(594199)	2016 LR_{57}	2006 03 02	F51	Spacewatch
(594200)	2016 LM_{58}	2008 12 06	F51	Spacewatch
(594201)	2016 LW_{58}	2016 06 08	F51	Pan-STARRS 1
(594202)	2016 LD_{59}	2016 06 09	F51	Pan-STARRS 1
(594203)	2016 LM_{59}	2015 01 17	F51	Pan-STARRS 1
(594204)	2016 LV_{63}	2012 09 16	G96	Spacewatch
(594205)	2016 LX_{63}	2008 11 06	F51	Spacewatch
(594206)	2016 LE_{64}	2012 09 21	F51	Mount Lemmon Survey
(594207)	2016 LJ_{64}	2011 05 06	F51	Spacewatch
(594208)	2016 LY_{64}	2003 02 01	G96	NEAT
(594209)	2016 LM_{78}	2016 06 08	G96	Mount Lemmon Survey
(594210)	2016 MF_{2}	2013 11 09	F51	Mount Lemmon Survey
(594211)	2016 MO_{2}	2016 06 02	F51	Mount Lemmon Survey
(594212)	2016 MZ_{4}	2016 06 23	F51	Pan-STARRS 1
(594213)	2016 NM_{2}	2013 10 03	G45	Spacewatch
(594214)	2016 NV_{2}	2016 07 03	G45	Space Surveillance Telescope
(594215)	2016 NW_{2}	2008 09 29	G45	Mount Lemmon Survey
(594216)	2016 NB_{6}	2005 01 16	G96	Mauna Kea
(594217)	2016 NJ_{6}	2016 06 08	G96	Mount Lemmon Survey
(594218)	2016 NY_{8}	2003 04 01	F51	NEAT
(594219)	2016 NH_{9}	1996 06 16	F51	Spacewatch
(594220)	2016 NO_{9}	2012 09 14	F51	CSS
(594221)	2016 NK_{10}	2016 07 04	F51	Pan-STARRS 1
(594222)	2016 NR_{14}	2011 05 08	G96	Mount Lemmon Survey
(594223)	2016 ND_{19}	2008 11 01	F51	Mount Lemmon Survey
(594224)	2016 NG_{20}	2015 01 16	G96	Pan-STARRS 1
(594225)	2016 NP_{21}	2012 07 15	V03	Elenin, L.
(594226)	2016 NR_{24}	2013 11 28	F51	Mount Lemmon Survey
(594227)	2016 NB_{26}	2003 10 01	F51	Spacewatch
(594228)	2016 NL_{30}	2007 09 05	F51	LONEOS
(594229)	2016 NJ_{31}	2007 11 19	G96	Spacewatch
(594230)	2016 NL_{31}	2012 10 21	G96	Spacewatch
(594231)	2016 NB_{35}	2013 12 24	G96	Mount Lemmon Survey
(594232)	2016 NK_{41}	2015 03 17	G96	Pan-STARRS 1
(594233)	2016 NS_{47}	2012 09 25	G96	Mount Lemmon Survey
(594234)	2016 NS_{52}	2012 10 08	F51	Spacewatch
(594235)	2016 NG_{53}	2016 06 08	F51	Pan-STARRS 1
(594236)	2016 NS_{54}	2003 11 23	G96	Spacewatch
(594237)	2016 NB_{58}	2008 03 30	F51	Spacewatch
(594238)	2016 NH_{66}	2015 01 28	F51	Pan-STARRS 1
(594239)	2016 NX_{67}	2016 07 03	G96	Mount Lemmon Survey
(594240)	2016 NL_{68}	2007 09 18	F51	Tucker, R.
(594241)	2016 NC_{69}	2012 10 17	F51	Pan-STARRS 1
(594242)	2016 NE_{69}	2007 09 10	F51	Mount Lemmon Survey

(594243)	2016 NM_{73}	2016 07 11	F51	Pan-STARRS 1
(594244)	2016 NB_{75}	2016 07 06	J04	Mount Lemmon Survey
(594245)	2016 NJ_{77}	2009 01 15	F51	Spacewatch
(594246)	2016 NP_{78}	2002 02 10	F51	LINEAR
(594247)	2016 NC_{81}	2012 11 26	F51	Mount Lemmon Survey
(594248)	2016 NY_{82}	2001 07 17	G96	LONEOS
(594249)	2016 NM_{83}	2015 04 24	F51	Pan-STARRS 1
(594250)	2016 NH_{87}	2015 02 16	F51	Pan-STARRS 1
(594251)	2016 NY_{87}	2012 09 26	G96	Schwartz, M., Holvorcem, P. R.
(594252)	2016 NW_{93}	2016 07 03	G96	Mount Lemmon Survey
(594253)	2016 NV_{115}	2016 07 03	G96	Mount Lemmon Survey
(594254)	2016 NW_{118}	2016 07 01	F51	Pan-STARRS 1
(594255)	2016 NF_{119}	2016 07 14	F51	Pan-STARRS 1
(594256)	2016 NZ_{130}	2016 07 07	F51	Pan-STARRS 1
(594257)	2016 NX_{140}	2012 06 21	G96	Mount Lemmon Survey
(594258)	2016 NV_{148}	2016 07 10	G96	Mount Lemmon Survey
(594259)	2016 OT_{1}	2007 06 08	691	Spacewatch
(594260)	2016 OB_{4}	2011 07 27	F51	Pan-STARRS 1
(594261)	2016 OS_{7}	2005 09 03	F51	NEAT
(594262)	2016 PO_{1}	2011 04 03	F51	Siding Spring Survey
(594263)	2016 PY_{3}	2011 09 20	F51	Pan-STARRS 1
(594264)	2016 PQ_{4}	2012 10 18	F51	Pan-STARRS 1
(594265)	2016 PJ_{8}	2008 08 23	F51	Siding Spring Survey
(594266)	2016 PX_{10}	2016 08 02	F51	Pan-STARRS 1
(594267)	2016 PT_{15}	2016 06 08	F51	Pan-STARRS 1
(594268)	2016 PD_{16}	2015 03 25	F51	Pan-STARRS 1
(594269)	2016 PU_{17}	2005 02 09	F51	Spacewatch
(594270)	2016 PW_{18}	2010 01 05	F51	Spacewatch
(594271)	2016 PS_{19}	2013 12 28	F51	Elenin, L.
(594272)	2016 PL_{21}	2000 12 23	F51	Spacewatch
(594273)	2016 PG_{22}	2016 08 07	F51	Pan-STARRS 1
(594274)	2016 PF_{24}	2005 02 09	F51	Mount Lemmon Survey
(594275)	2016 PN_{24}	2016 08 02	F51	Pan-STARRS 1
(594276)	2016 PL_{25}	2003 10 22	F51	SDSS Collaboration
(594277)	2016 PY_{27}	2004 10 08	F51	Spacewatch
(594278)	2016 PO_{29}	2010 04 20	F51	Mount Lemmon Survey
(594279)	2016 PB_{32}	2015 05 24	F51	Pan-STARRS 1
(594280)	2016 PP_{33}	2009 10 22	F51	Spacewatch
(594281)	2016 PX_{34}	2012 10 08	F51	Pan-STARRS 1
(594282)	2016 PV_{43}	2007 03 25	F51	Mount Lemmon Survey
(594283)	2016 PX_{43}	2014 02 06	F51	CSS
(594284)	2016 PP_{49}	2012 09 21	F51	Spacewatch
(594285)	2016 PV_{53}	2002 06 11	F51	NEAT
(594286)	2016 PY_{55}	2014 01 11	F51	Pan-STARRS 1
(594287)	2016 PW_{67}	2008 05 01	C85	Siding Spring Survey
(594288)	2016 PD_{76}	2015 05 18	F51	Mount Lemmon Survey
(594289)	2016 PR_{78}	2011 09 02	F51	Pan-STARRS 1
(594290)	2016 PA_{87}	2016 08 10	F51	Pan-STARRS 1
(594291)	2016 PK_{92}	2011 09 04	F51	Pan-STARRS 1
(594292)	2016 PU_{92}	2012 11 07	F51	Pan-STARRS 1
(594293)	2016 PH_{95}	2008 04 06	F51	Mount Lemmon Survey
(594294)	2016 PL_{97}	2008 10 09	Y00	Mount Lemmon Survey
(594295)	2016 PL_{99}	2009 01 26	F51	Mount Lemmon Survey
(594296)	2016 PJ_{102}	2001 12 11	F51	Spacewatch
(594297)	2016 PP_{104}	2007 08 24	F51	Spacewatch
(594298)	2016 PA_{111}	2014 01 29	F51	CSS
(594299)	2016 PG_{113}	2011 09 21	F51	Mount Lemmon Survey
(594300)	2016 PQ_{114}	2001 05 23	F51	Elliot, J. L., Wasserman, L. H.
(594301)	2016 PQ_{117}	2011 09 21	F51	Mount Lemmon Survey
(594302)	2016 PC_{118}	2012 11 07	F51	Pan-STARRS 1
(594303)	2016 PZ_{119}	2013 01 19	F51	Spacewatch
(594304)	2016 PA_{125}	2011 10 31	F51	Mount Lemmon Survey
(594305)	2016 PU_{125}	2016 08 12	F51	Pan-STARRS 1
(594306)	2016 PW_{128}	2002 01 14	F51	NEAT
(594307)	2016 PA_{152}	2016 08 02	F51	Pan-STARRS 1
(594308)	2016 PZ_{166}	2016 08 02	F51	Pan-STARRS 1
(594309)	2016 QL_{9}	2011 07 27	F51	Pan-STARRS 1
(594310)	2016 QZ_{9}	2006 10 21	F51	Mount Lemmon Survey
(594311)	2016 QQ_{10}	2010 02 15	F51	Mount Lemmon Survey
(594312)	2016 QL_{13}	2003 10 19	G96	SDSS Collaboration
(594313)	2016 QM_{18}	2012 10 15	F51	Spacewatch
(594314)	2016 QU_{21}	2002 11 24	F51	NEAT
(594315)	2016 QH_{22}	2007 10 11	F51	Mount Lemmon Survey
(594316)	2016 QY_{24}	2011 08 02	F51	Pan-STARRS 1
(594317)	2016 QP_{29}	2003 10 29	F51	Spacewatch
(594318)	2016 QD_{30}	2008 12 29	F51	Mount Lemmon Survey
(594319)	2016 QF_{30}	2015 05 22	F51	Pan-STARRS 1
(594320)	2016 QJ_{37}	2012 09 19	G96	Mount Lemmon Survey
(594321)	2016 QU_{38}	2006 05 06	G96	Mount Lemmon Survey
(594322)	2016 QB_{39}	2015 02 18	G96	Pan-STARRS 1
(594323)	2016 QK_{48}	2007 10 09	F51	LUSS
(594324)	2016 QD_{49}	2011 09 20	F51	CSS
(594325)	2016 QA_{54}	2016 08 28	G96	Mount Lemmon Survey
(594326)	2016 QU_{54}	2010 03 18	D29	Mount Lemmon Survey
(594327)	2016 QL_{63}	2007 08 10	G96	Spacewatch
(594328)	2016 QJ_{68}	2007 09 09	G96	Mount Lemmon Survey
(594329)	2016 QW_{71}	2013 11 11	G96	Mount Lemmon Survey
(594330)	2016 QZ_{73}	2005 04 11	691	Mount Lemmon Survey
(594331)	2016 QA_{75}	2005 07 08	G96	Spacewatch
(594332)	2016 QT_{76}	2015 03 18	D29	Pan-STARRS 1
(594333)	2016 QY_{76}	2011 08 02	D29	Pan-STARRS 1
(594334)	2016 QY_{81}	2011 07 04	G96	Siding Spring Survey
(594335)	2016 QE_{83}	2016 08 03	G96	Pan-STARRS 1
(594336)	2016 QA_{85}	2009 12 18	I41	Mount Lemmon Survey
(594337)	2016 QU_{89}	2016 08 25	W84	Cerro Tololo-DECam
(594338)	2016 QV_{90}	2005 08 27	F51	NEAT
(594339)	2016 QZ_{94}	2012 10 23	G96	Pan-STARRS 1
(594340)	2016 QH_{95}	2014 02 25	F51	Pan-STARRS 1
(594341)	2016 QB_{106}	2006 12 25	G96	Spacewatch
(594342)	2016 QC_{113}	2016 08 27	F51	Pan-STARRS 1
(594343)	2016 RP_{2}	2016 08 30	G96	Mount Lemmon Survey
(594344)	2016 RK_{15}	2012 10 18	691	Mount Lemmon Survey
(594345)	2016 RX_{15}	2011 08 26	G96	Sárneczky, K.
(594346)	2016 RS_{16}	2006 12 21	G96	Spacewatch

(594347)	2016 RY_{22}	2007 10 08	G96	Mount Lemmon Survey
(594348)	2016 RJ_{23}	2002 09 27	703	NEAT
(594349)	2016 RY_{28}	2002 09 30	G96	AMOS
(594350)	2016 RY_{30}	2011 08 27	G96	Pan-STARRS 1
(594351)	2016 RH_{33}	2005 07 11	G96	Spacewatch
(594352)	2016 RK_{36}	2012 12 22	G96	Pan-STARRS 1
(594353)	2016 RC_{39}	2011 11 03	G96	Mount Lemmon Survey
(594354)	2016 RH_{42}	2011 09 19	G96	Pan-STARRS 1
(594355)	2016 RM_{42}	2007 03 16	G96	Spacewatch
(594356)	2016 RC_{43}	2013 01 04	G96	Cerro Tololo-DECam
(594357)	2016 RE_{51}	2016 09 03	G96	Mount Lemmon Survey
(594358)	2016 SB_{6}	2002 08 15	F51	NEAT
(594359)	2016 SA_{10}	2007 10 31	J43	Mount Lemmon Survey
(594360)	2016 SM_{11}	2007 03 16	J43	Spacewatch
(594361)	2016 SG_{15}	2006 08 27	J43	Spacewatch
(594362)	2016 ST_{16}	2010 09 17	V03	Mount Lemmon Survey
(594363)	2016 SU_{16}	2011 10 30	Q62	Mount Lemmon Survey
(594364)	2016 SY_{19}	2015 03 20	J43	Pan-STARRS 1
(594365)	2016 SH_{21}	2007 11 07	J43	CSS
(594366)	2016 SX_{28}	2007 11 08	G96	Spacewatch
(594367)	2016 SN_{30}	2009 04 17	F51	Spacewatch
(594368)	2016 SW_{34}	2008 02 29	H15	Spacewatch
(594369)	2016 SY_{39}	2011 10 21	F51	Spacewatch
(594370)	2016 SW_{48}	2016 08 30	F51	Mount Lemmon Survey
(594371)	2016 SA_{75}	2016 09 25	F51	Pan-STARRS 1
(594372)	2016 SV_{101}	2016 09 26	F51	Pan-STARRS 1
(594373)	2016 TE_{4}	1997 09 28	691	Spacewatch
(594374)	2016 TG_{6}	2007 10 14	691	Mount Lemmon Survey
(594375)	2016 TS_{9}	2013 04 10	J43	Pan-STARRS 1
(594376)	2016 TP_{10}	2009 12 18	G96	Mount Lemmon Survey
(594377)	2016 TL_{16}	2000 07 29	G96	Buie, M. W., Kern, S. D.
(594378)	2016 TN_{16}	2011 09 22	G96	CSS
(594379)	2016 TN_{23}	2011 10 25	G96	Pan-STARRS 1
(594380)	2016 TJ_{32}	2016 09 22	G96	Mount Lemmon Survey
(594381)	2016 TX_{33}	2006 05 02	F51	Mount Lemmon Survey
(594382)	2016 TY_{36}	2013 01 17	F51	Mount Lemmon Survey
(594383)	2016 TV_{40}	2015 05 22	F51	Pan-STARRS 1
(594384)	2016 TN_{43}	2006 09 18	F51	Spacewatch
(594385)	2016 TC_{44}	2005 08 30	F51	Spacewatch
(594386)	2016 TY_{47}	2007 11 04	G96	Spacewatch
(594387)	2016 TQ_{49}	2006 12 13	F51	Mount Lemmon Survey
(594388)	2016 TY_{49}	2005 09 25	F51	Spacewatch
(594389)	2016 TH_{54}	2008 04 29	F51	Mount Lemmon Survey
(594390)	2016 TU_{55}	2001 10 15	F51	LINEAR
(594391)	2016 TO_{57}	2006 12 28	J43	Sárneczky, K.
(594392)	2016 TD_{61}	2000 09 05	691	SDSS Collaboration
(594393)	2016 TC_{70}	2016 08 10	309	Pan-STARRS 1
(594394)	2016 TK_{73}	2008 03 31	G96	Spacewatch
(594395)	2016 TQ_{77}	2007 12 30	J43	Spacewatch
(594396)	2016 TB_{78}	2013 02 11	J43	Schwartz, M., Holvorcem, P. R.
(594397)	2016 TB_{81}	2007 10 10	G96	Mount Lemmon Survey
(594398)	2016 TT_{81}	2011 09 21	G96	Mount Lemmon Survey
(594399)	2016 TJ_{82}	2008 05 02	G96	CSS
(594400)	2016 TH_{83}	2011 09 21	G96	Mount Lemmon Survey
(594401)	2016 TD_{88}	2013 03 13	G96	Palomar Transient Factory
(594402)	2016 TR_{91}	2014 11 30	G96	Pan-STARRS 1
(594403)	2016 TH_{92}	2005 08 04	G96	NEAT
(594404)	2016 TP_{100}	2007 10 21	G96	Mount Lemmon Survey
(594405)	2016 TP_{122}	2016 10 12	F51	Pan-STARRS 1
(594406)	2016 TB_{150}	2016 10 12	G96	Mount Lemmon Survey
(594407)	2016 TY_{163}	2016 10 12	F51	Pan-STARRS 1
(594408)	2016 TN_{168}	2016 10 08	F51	Pan-STARRS 1
(594409)	2016 UB_{5}	2011 09 23	G96	Spacewatch
(594410)	2016 UR_{11}	2011 10 25	G96	Pan-STARRS 1
(594411)	2016 UG_{13}	2008 02 29	G96	Sheridan, E.
(594412)	2016 UU_{16}	2014 04 30	G96	Pan-STARRS 1
(594413)	2016 UK_{18}	2016 10 11	G96	Mount Lemmon Survey
(594414)	2016 UC_{20}	2015 06 13	G96	Pan-STARRS 1
(594415)	2016 UE_{24}	2016 10 11	691	Mount Lemmon Survey
(594416)	2016 UZ_{24}	2006 10 19	G96	Spacewatch
(594417)	2016 UE_{28}	2000 08 25	691	Millis, R. L., Wasserman, L. H.
(594418)	2016 UJ_{30}	2008 04 06	G96	Spacewatch
(594419)	2016 UB_{45}	2005 07 04	F51	Mount Lemmon Survey
(594420)	2016 UZ_{45}	2013 01 10	F51	Pan-STARRS 1
(594421)	2016 UW_{47}	2011 11 22	F51	Mount Lemmon Survey
(594422)	2016 UE_{49}	2013 02 07	F51	Spacewatch
(594423)	2016 UF_{50}	2013 04 16	F51	Cerro Tololo-DECam
(594424)	2016 UE_{52}	2005 08 01	F51	Mauna Kea
(594425)	2016 UY_{59}	2011 10 20	F51	Mount Lemmon Survey
(594426)	2016 UC_{66}	2011 11 25	G96	Pan-STARRS 1
(594427)	2016 UQ_{66}	2014 02 24	G96	Pan-STARRS 1
(594428)	2016 UN_{67}	2005 08 31	F51	Spacewatch
(594429)	2016 UB_{71}	2016 10 10	F51	Rinner, C.
(594430)	2016 UQ_{73}	2006 10 21	F51	Spacewatch
(594431)	2016 UR_{85}	2005 08 26	F51	NEAT
(594432)	2016 US_{90}	1999 10 13	F51	SDSS Collaboration
(594433)	2016 UO_{94}	2010 03 16	F51	Spacewatch
(594434)	2016 UE_{97}	2014 04 25	F51	Mount Lemmon Survey
(594435)	2016 UL_{97}	2016 10 10	F51	Mount Lemmon Survey
(594436)	2016 UL_{103}	2008 03 27	F51	Mount Lemmon Survey
(594437)	2016 UY_{109}	2005 09 30	F51	Mount Lemmon Survey
(594438)	2016 UA_{114}	2008 04 30	F51	Mount Lemmon Survey
(594439)	2016 UQ_{121}	2014 05 08	F51	Pan-STARRS 1
(594440)	2016 UG_{136}	2006 09 30	G96	Mount Lemmon Survey
(594441)	2016 UO_{141}	2011 10 18	G96	Pan-STARRS 1
(594442)	2016 UG_{143}	2014 03 12	G96	Spacewatch
(594443)	2016 UF_{147}	2015 06 28	G96	Pan-STARRS 1
(594444)	2016 UP_{147}	2005 11 04	G96	Spacewatch
(594445)	2016 US_{251}	2016 10 21	G96	Mount Lemmon Survey
(594446)	2016 UZ_{261}	2016 10 25	F51	Pan-STARRS 1
(594447)	2016 VG_{4}	2007 03 16	G96	Mount Lemmon Survey
(594448)	2016 VZ_{5}	2011 11 25	G96	Pan-STARRS 1
(594449)	2016 VX_{7}	2014 06 03	G96	Pan-STARRS 1
(594450)	2016 VU_{15}	2016 08 31	G96	Karavaev, Y.

(594451)	2016 VJ_{17}	2008 03 08	691	Mount Lemmon Survey
(594452)	2016 VY_{21}	2016 11 10	F51	Pan-STARRS 1
(594453)	2016 VE_{22}	2016 11 03	F51	Pan-STARRS 1
(594454)	2016 VN_{29}	2016 11 06	F51	Pan-STARRS 1
(594455)	2016 VJ_{36}	2016 11 10	F51	Pan-STARRS 1
(594456)	2016 VX_{42}	1999 11 12	F51	Spacewatch
(594457)	2016 WA	2010 06 11	G96	Mount Lemmon Survey
(594458)	2016 WN	2015 02 15	G96	Pan-STARRS 1
(594459)	2016 WD_1	2011 11 26	G96	Spacewatch
(594460)	2016 WX_1	2016 11 19	F51	Pan-STARRS 1
(594461)	2016 WL_5	2005 10 23	J43	Spacewatch
(594462)	2016 WF_6	2005 12 05	J43	Spacewatch
(594463)	2016 WF_8	2015 04 01	G96	Pan-STARRS 1
(594464)	2016 WR_9	2000 09 26	G96	AMOS
(594465)	2016 WL_{16}	2010 09 16	691	Mount Lemmon Survey
(594466)	2016 WA_{20}	2013 03 13	G96	Mount Lemmon Survey
(594467)	2016 WH_{21}	2012 12 23	G96	Mount Lemmon Survey
(594468)	2016 WO_{22}	2008 03 25	J43	Spacewatch
(594469)	2016 WM_{24}	2002 04 08	G96	Buie, M. W., Jordan, A. B.
(594470)	2016 WK_{28}	2002 02 20	G96	Spacewatch
(594471)	2016 WL_{29}	2012 01 20	G96	CSS
(594472)	2016 WN_{29}	2010 10 17	G96	Mount Lemmon Survey
(594473)	2016 WE_{38}	2014 05 21	G96	Pan-STARRS 1
(594474)	2016 WC_{40}	2010 11 01	G96	Mount Lemmon Survey
(594475)	2016 WD_{47}	2011 12 29	F51	Mount Lemmon Survey
(594476)	2016 WH_{51}	2011 09 04	C42	Pan-STARRS 1
(594477)	2016 WK_{72}	2016 11 19	G96	Mount Lemmon Survey
(594478)	2016 XX_4	2016 10 06	691	Mount Lemmon Survey
(594479)	2016 XC_5	2001 09 21	G45	SDSS Collaboration
(594480)	2016 XN_5	2016 09 02	G45	Mount Lemmon Survey
(594481)	2016 XV_6	2008 03 27	G45	Jarnac
(594482)	2016 XL_{10}	2016 12 04	G96	Mount Lemmon Survey
(594483)	2016 XK_{15}	2005 08 27	J43	Spacewatch
(594484)	2016 XZ_{15}	2016 10 08	691	Pan-STARRS 1
(594485)	2016 XE_{19}	2005 08 27	G96	NEAT
(594486)	2016 XF_{19}	2014 07 02	G96	Pan-STARRS 1
(594487)	2016 XF_{20}	2011 10 20	G96	Spacewatch
(594488)	2016 XE_{21}	2004 10 13	G96	LONEOS
(594489)	2016 XT_{23}	2008 11 06	G96	CSS
(594490)	2016 YD_{10}	2006 01 07	J43	Mount Lemmon Survey
(594491)	2017 AC_2	2013 05 08	F51	Pan-STARRS 1
(594492)	2017 AD_6	2002 04 12	J43	NEAT
(594493)	2017 AN_{21}	2012 02 14	F51	Pan-STARRS 1
(594494)	2017 AP_{33}	2017 01 04	F51	Pan-STARRS 1
(594495)	2017 BQ	2009 01 22	G96	Farra d'Isonzo
(594496)	2017 BR	2005 12 02	F51	Spacewatch
(594497)	2017 BG_1	2005 10 01	J43	Mount Lemmon Survey
(594498)	2017 BP_2	2012 01 19	F51	Pan-STARRS 1
(594499)	2017 BG_{13}	2016 12 28	G96	Pan-STARRS 1
(594500)	2017 BH_{13}	2013 05 15	G96	Pan-STARRS 1
(594501)	2017 BW_{16}	2015 10 03	G96	Mount Lemmon Survey
(594502)	2017 BV_{39}	2010 12 10	G96	Mount Lemmon Survey
(594503)	2017 BR_{48}	2015 10 01	G96	Mount Lemmon Survey
(594504)	2017 BD_{52}	2005 01 17	G96	Spacewatch
(594505)	2017 BD_{59}	2017 01 07	F51	Mount Lemmon Survey
(594506)	2017 BF_{64}	2009 09 16	G96	Mount Lemmon Survey
(594507)	2017 BR_{74}	2014 07 04	F51	Pan-STARRS 1
(594508)	2017 BY_{84}	2012 05 15	G96	Pan-STARRS 1
(594509)	2017 BN_{87}	2004 08 20	G96	Spacewatch
(594510)	2017 BO_{92}	2004 09 15	G96	Spacewatch
(594511)	2017 BX_{102}	2015 07 25	G96	Pan-STARRS 1
(594512)	2017 BS_{103}	2015 11 01	G96	Mount Lemmon Survey
(594513)	2017 BF_{106}	2010 12 13	F51	Spacewatch
(594514)	2017 BX_{106}	2009 09 21	G96	Mount Lemmon Survey
(594515)	2017 BJ_{113}	2009 09 25	G96	Mount Lemmon Survey
(594516)	2017 BH_{124}	2015 11 18	J43	Pan-STARRS 1
(594517)	2017 BS_{127}	2006 01 22	G96	Mount Lemmon Survey
(594518)	2017 BP_{149}	2017 01 31	G96	Mount Lemmon Survey
(594519)	2017 CH	2007 09 03	G96	CSS
(594520)	2017 CY_1	2016 11 08	J43	Pan-STARRS 1
(594521)	2017 CN_5	2017 02 02	G96	Pan-STARRS 1
(594522)	2017 CY_6	2016 10 07	F51	Spacewatch
(594523)	2017 CS_{10}	2009 09 20	691	Mount Lemmon Survey
(594524)	2017 CZ_{15}	2008 10 30	G96	Spacewatch
(594525)	2017 DO_5	2010 09 30	G96	Mount Lemmon Survey
(594526)	2017 DR_5	1998 09 19	G96	SDSS Collaboration
(594527)	2017 DA_6	2012 04 25	F51	Mount Lemmon Survey
(594528)	2017 DR_9	1998 08 30	F51	Spacewatch
(594529)	2017 DP_{33}	2006 03 02	F51	Spacewatch
(594530)	2017 DD_{35}	2017 02 22	G96	Mount Lemmon Survey
(594531)	2017 DE_{77}	2004 10 11	F51	Wasserman, L. H., Lovering, J. R.
(594532)	2017 DV_{81}	2011 01 08	G45	CSS
(594533)	2017 DV_{99}	2007 02 10	F51	Mount Lemmon Survey
(594534)	2017 DZ_{111}	2007 03 14	G96	Mount Lemmon Survey
(594535)	2017 DG_{112}	2012 03 14	G45	Spacewatch
(594536)	2017 DF_{135}	2017 02 25	F51	Pan-STARRS 1
(594537)	2017 DN_{142}	2011 09 04	F51	Pan-STARRS 1
(594538)	2017 EQ_{15}	2009 09 27	703	Spacewatch
(594539)	2017 FE	2015 06 25	F51	Pan-STARRS 1
(594540)	2017 FU_7	2003 10 23	691	Wasserman, L. H., Trilling, D. E.
(594541)	2017 FP_{10}	2012 03 04	F51	Mount Lemmon Survey
(594542)	2017 FX_{48}	2009 09 18	G96	Spacewatch
(594543)	2017 FD_{63}	2004 10 09	F51	LONEOS
(594544)	2017 FM_{76}	2014 01 29	G96	CSS
(594545)	2017 FL_{77}	2010 02 15	G96	Spacewatch
(594546)	2017 FZ_{82}	2011 07 26	F51	Pan-STARRS 1
(594547)	2017 FV_{94}	2007 10 19	F51	Mount Lemmon Survey
(594548)	2017 FJ_{103}	2004 03 15	F51	LINEAR
(594549)	2017 FH_{108}	2009 04 02	F51	Mount Lemmon Survey
(594550)	2017 FH_{119}	2014 04 05	691	Pan-STARRS 1
(594551)	2017 FT_{158}	2015 08 03	F51	Pan-STARRS 1
(594552)	2017 GA_{12}	2007 03 14	F51	Mount Lemmon Survey
(594553)	2017 HH_4	2004 04 16	F51	Spacewatch
(594554)	2017 HE_8	2011 03 08	F51	CSS

(594555)	2017 HR_{16}	2015 11 07	G96	Mount Lemmon Survey
(594556)	2017 HF_{17}	2014 05 06	G96	Pan-STARRS 1
(594557)	2017 HG_{25}	2008 11 08	J04	Mount Lemmon Survey
(594558)	2017 KE_{8}	2010 04 09	F51	Mount Lemmon Survey
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(594560)	2017 KV_{15}	2007 01 28	F51	Spacewatch
(594561)	2017 KD_{23}	2011 12 26	F51	Mount Lemmon Survey
(594562)	2017 KF_{24}	2004 08 11	F51	NEAT
(594563)	2017 LS	2009 09 28	691	Mount Lemmon Survey
(594564)	2017 NC_{1}	2007 12 31	G96	Mount Lemmon Survey
(594565)	2017 NJ_{1}	2013 06 08	F51	Mount Lemmon Survey
(594566)	2017 NK_{1}	2016 01 03	F51	Pan-STARRS 1
(594567)	2017 NS_{2}	2002 07 17	F51	NEAT
(594568)	2017 OQ_{1}	2003 09 18	Q62	NEAT
(594569)	2017 ON_{4}	2007 09 12	Y00	CSS
(594570)	2017 OV_{6}	2016 01 08	F51	Pan-STARRS 1
(594571)	2017 OM_{8}	2006 08 19	J04	Spacewatch
(594572)	2017 OK_{10}	2003 10 22	J04	Kitt Peak
(594573)	2017 OR_{12}	2010 06 19	Y00	Mount Lemmon Survey
(594574)	2017 OS_{32}	2010 10 29	F51	Kuli, Z., Sárneczky, K.
(594575)	2017 OS_{40}	2016 02 05	F51	Pan-STARRS 1
(594576)	2017 OC_{41}	2013 08 08	F51	Pan-STARRS 1
(594577)	2017 OD_{50}	2004 03 18	F51	Spacewatch
(594578)	2017 OE_{50}	2013 04 07	F51	Spacewatch
(594579)	2017 OH_{51}	2013 10 05	F51	Pan-STARRS 1
(594580)	2017 OE_{52}	2010 10 11	Y00	CSS
(594581)	2017 OD_{54}	2007 02 21	F51	Mount Lemmon Survey
(594582)	2017 ON_{56}	2005 04 15	F51	Spacewatch
(594583)	2017 OV_{56}	2006 08 28	F51	CSS
(594584)	2017 OK_{58}	2012 02 19	F51	Spacewatch
(594585)	2017 OG_{64}	2008 02 10	F51	Spacewatch
(594586)	2017 OQ_{64}	2013 08 15	F51	Pan-STARRS 1
(594587)	2017 OB_{66}	2005 10 01	F51	Mount Lemmon Survey
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(594589)	2017 OA_{89}	2017 07 22	F51	Pan-STARRS 1
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(594591)	2017 OL_{122}	2010 05 08	F51	Mount Lemmon Survey
(594592)	2017 OV_{122}	2017 07 29	F51	Pan-STARRS 1
(594593)	2017 PM	2002 09 16	F51	NEAT
(594594)	2017 PP	2014 11 23	F51	Mount Lemmon Survey
(594595)	2017 PS	1995 09 17	F51	Spacewatch
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(594597)	2017 PE_{2}	2012 02 03	F51	Pan-STARRS 1
(594598)	2017 PL_{2}	2010 11 01	F51	Mount Lemmon Survey
(594599)	2017 PF_{6}	2016 01 14	F51	Pan-STARRS 1
(594600)	2017 PH_{15}	2012 02 16	F51	Pan-STARRS 1
(594601)	2017 PJ_{19}	2015 01 20	F51	Pan-STARRS 1
(594602)	2017 PN_{20}	2016 02 11	F51	Pan-STARRS 1
(594603)	2017 PW_{21}	2006 11 20	F51	Mount Lemmon Survey
(594604)	2017 PK_{22}	2004 02 26	F51	Buie, M. W., Trilling, D. E.
(594605)	2017 PY_{33}	2016 01 14	F51	Pan-STARRS 1
(594606)	2017 PV_{38}	2006 09 26	F51	Spacewatch
(594607)	2017 PQ_{64}	2017 08 15	F51	Pan-STARRS 1
(594608)	2017 QH_{4}	2010 09 15	F51	Mount Lemmon Survey
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(594611)	2017 QE_{9}	2016 02 11	F51	Pan-STARRS 1
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(594613)	2017 QG_{19}	2004 12 19	F51	Mount Lemmon Survey
(594614)	2017 QM_{20}	2006 10 19	F51	Mount Lemmon Survey
(594615)	2017 QZ_{22}	2012 02 03	F51	Pan-STARRS 1
(594616)	2017 QU_{23}	2016 03 11	F51	Mount Lemmon Survey
(594617)	2017 QL_{29}	2008 01 18	F51	Spacewatch
(594618)	2017 QE_{31}	2017 07 26	D29	Pan-STARRS 1
(594619)	2017 QK_{32}	2013 08 28	V03	CSS
(594620)	2017 QQ_{46}	2008 01 11	F51	Spacewatch
(594621)	2017 QG_{51}	2007 12 18	F51	Mount Lemmon Survey
(594622)	2017 QQ_{54}	2006 08 24	J04	NEAT
(594623)	2017 QA_{55}	2006 09 28	W98	Mount Lemmon Survey
(594624)	2017 QT_{55}	2016 01 31	F51	Pan-STARRS 1
(594625)	2017 QZ_{57}	2011 01 12	F51	Spacewatch
(594626)	2017 QE_{60}	2008 04 14	T05	Mount Lemmon Survey
(594627)	2017 QT_{65}	2014 11 20	F51	Mount Lemmon Survey
(594628)	2017 QQ_{66}	2006 12 13	106	Mount Lemmon Survey
(594629)	2017 RT_{13}	2011 02 11	F51	Mount Lemmon Survey
(594630)	2017 RY_{19}	2008 01 19	F51	Mount Lemmon Survey
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(594632)	2017 RN_{20}	2015 02 20	F51	Pan-STARRS 1
(594633)	2017 RY_{22}	2013 08 08	F51	Pan-STARRS 1
(594634)	2017 RD_{23}	2003 01 10	F51	Spacewatch
(594635)	2017 RH_{28}	2001 05 18	F51	AMOS
(594636)	2017 RV_{28}	2006 09 17	F51	Spacewatch
(594637)	2017 RX_{33}	2007 03 15	F51	Spacewatch
(594638)	2017 RS_{35}	2005 10 25	F51	Mount Lemmon Survey
(594639)	2017 RC_{39}	2006 09 15	F51	Spacewatch
(594640)	2017 RN_{39}	2016 03 13	F51	Pan-STARRS 1
(594641)	2017 RO_{39}	2008 04 03	F51	Mount Lemmon Survey
(594642)	2017 RJ_{41}	2006 10 02	F51	Mount Lemmon Survey
(594643)	2017 RY_{43}	2006 01 25	F51	Spacewatch
(594644)	2017 RU_{58}	2013 10 02	F51	Pan-STARRS 1
(594645)	2017 RH_{59}	2007 03 13	F51	Spacewatch
(594646)	2017 RQ_{67}	2011 01 02	F51	Mount Lemmon Survey
(594647)	2017 RG_{69}	2007 02 23	F51	Mount Lemmon Survey
(594648)	2017 RP_{72}	2011 03 06	F51	Spacewatch
(594649)	2017 RB_{73}	2013 10 05	F51	Mount Lemmon Survey
(594650)	2017 RN_{73}	2010 01 04	F51	Spacewatch
(594651)	2017 RE_{77}	2015 01 20	F51	Pan-STARRS 1
(594652)	2017 RJ_{77}	2013 10 02	F51	Spacewatch
(594653)	2017 RF_{79}	2003 04 04	F51	Spacewatch
(594654)	2017 RG_{79}	2006 10 19	F51	Wasserman, L. H.
(594655)	2017 RG_{80}	2006 07 18	F51	Mount Lemmon Survey
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(594657)	2017 RH_{93}	2002 02 12	F51	Spacewatch
(594658)	2017 RR_{93}	2008 02 02	F51	Spacewatch

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(594665) 2017 SG_{26} 2005 10 25 F51 Mount Lemmon Survey
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(594668) 2017 SE_{44} 2013 07 01 F51 Pan-STARRS 1
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(594672) 2017 SH_{66} 2007 02 23 F51 Mount Lemmon Survey
(594673) 2017 SB_{67} 2007 02 21 F51 Mount Lemmon Survey
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(594676) 2017 SP_{76} 2009 03 31 F51 CSS
(594677) 2017 SM_{77} 2007 04 20 F51 Mount Lemmon Survey
(594678) 2017 SS_{77} 2005 10 04 F51 Mount Lemmon Survey
(594679) 2017 ST_{78} 2013 10 01 F51 Spacewatch
(594680) 2017 SU_{83} 2010 01 06 F51 Spacewatch
(594681) 2017 SZ_{84} 2007 02 10 F51 Mount Lemmon Survey
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(594727) 2017 VD_{21} 2015 03 24 F51 Mount Lemmon Survey
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(594730) 2017 VH_{24} 2008 12 02 F51 Spacewatch
(594731) 2017 VS_{28} 2013 12 24 F51 Mount Lemmon Survey
(594732) 2017 VB_{29} 2008 09 23 F51 Spacewatch
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(594735) 2017 VZ_{43} 2017 11 07 F51 Pan-STARRS 1
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(594739) 2017 WS_{8} 2014 02 26 F51 Pan-STARRS 1
(594740) 2017 WO_{9} 2015 02 16 D29 Pan-STARRS 1
(594741) 2017 WW_{18} 2005 03 04 691 Spacewatch
(594742) 2017 WZ_{20} 2008 11 10 691 OAM Observatory
(594743) 2017 WP_{24} 2013 10 26 J43 Mount Lemmon Survey
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(594745) 2017 WL_{47} 2017 11 18 F51 Pan-STARRS 1
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(594750) 2017 XR_{19} 2009 10 16 F51 Mount Lemmon Survey
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(594752) 2017 XE_{25} 2015 04 25 F51 Pan-STARRS 1
(594753) 2017 XN_{25} 2008 09 22 F51 Spacewatch
(594754) 2017 XS_{25} 2008 11 07 F51 Mount Lemmon Survey
(594755) 2017 XO_{27} 2012 09 23 F51 Mount Lemmon Survey
(594756) 2017 XV_{30} 2004 11 03 F51 Spacewatch
(594757) 2017 XH_{33} 2008 09 21 F51 Spacewatch
(594758) 2017 XA_{34} 2011 01 30 F51 Mount Lemmon Survey
(594759) 2017 XC_{34} 2008 09 29 F51 Spacewatch
(594760) 2017 XT_{47} 2012 11 07 F51 Mount Lemmon Survey
(594761) 2017 XN_{48} 2009 02 03 F51 Spacewatch
(594762) 2017 XY_{51} 2003 10 19 F51 Spacewatch

(594763)	2017 XL_{52}	2007 10 09	F51	Mount Lemmon Survey
(594764)	2017 XG_{53}	2008 11 02	F51	Spacewatch
(594765)	2017 XN_{56}	2008 12 01	F51	Spacewatch
(594766)	2017 XN_{58}	2012 09 21	F51	Mount Lemmon Survey
(594767)	2017 XY_{58}	1997 03 10	T05	Spacewatch
(594768)	2017 XN_{59}	2015 04 23	F51	Pan-STARRS 1
(594769)	2017 XD_{62}	2017 12 15	G96	Mount Lemmon Survey
(594770)	2017 XC_{63}	2012 06 08	691	Mount Lemmon Survey
(594771)	2017 XP_{64}	2006 11 16	F51	Spacewatch
(594772)	2017 YN_{10}	2004 08 22	F51	Spacewatch
(594773)	2017 YZ_{10}	2017 09 22	F51	Pan-STARRS 1
(594774)	2017 YF_{11}	2003 01 25	F51	Spacewatch
(594775)	2017 YH_{11}	2007 03 25	F51	Mount Lemmon Survey
(594776)	2017 YU_{12}	2008 02 03	F51	Mount Lemmon Survey
(594777)	2017 YE_{13}	2005 10 07	F51	Mount Lemmon Survey
(594778)	2017 YA_{14}	2004 12 13	J43	Spacewatch
(594779)	2017 YR_{14}	2009 12 19	I41	Mount Lemmon Survey
(594780)	2017 YU_{14}	2013 12 24	I41	CSS
(594781)	2017 YT_{15}	2014 01 01	I41	Schwartz, M., Holvorcem, P. R.
(594782)	2017 YV_{15}	2013 12 02	I41	Zolnowski, M., Kusiak, M.
(594783)	2017 YV_{23}	2017 12 25	F51	Pan-STARRS 1
(594784)	2017 YA_{27}	2017 12 23	F51	Pan-STARRS 1
(594785)	2017 YB_{27}	2017 12 29	F51	Pan-STARRS 1
(594786)	2018 AJ_{5}	2012 08 26	F51	Pan-STARRS 1
(594787)	2018 AU_{7}	2011 11 23	F51	Mount Lemmon Survey
(594788)	2018 AV_{13}	2008 09 23	F51	Spacewatch
(594789)	2018 AA_{17}	2013 03 05	F51	Mount Lemmon Survey
(594790)	2018 AS_{29}	2018 01 15	F51	Pan-STARRS 1
(594791)	2018 BL_{10}	2006 01 23	J43	Spacewatch
(594792)	2018 BO_{10}	2008 12 01	J43	CSS
(594793)	2018 BY_{10}	2007 02 23	691	Spacewatch
(594794)	2018 BO_{11}	2006 11 17	G36	Spacewatch
(594795)	2018 BL_{12}	2007 03 10	G36	Mount Lemmon Survey
(594796)	2018 BZ_{12}	2010 12 01	G36	Mount Lemmon Survey
(594797)	2018 CC_{4}	2009 02 01	I41	Mount Lemmon Survey
(594798)	2018 CO_{4}	2008 12 31	I41	Mount Lemmon Survey
(594799)	2018 CZ_{5}	2008 04 14	I41	Mount Lemmon Survey
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(594801)	2018 CM_{6}	2013 04 17	I41	Siding Spring Survey
(594802)	2018 CC_{7}	2004 12 14	I41	LINEAR
(594803)	2018 CL_{8}	2007 01 18	I41	NEAT
(594804)	2018 CY_{8}	2001 12 18	I41	LINEAR
(594805)	2018 CC_{9}	2005 01 13	I41	Spacewatch
(594806)	2018 CN_{9}	2004 01 21	I41	LINEAR
(594807)	2018 CQ_{12}	2013 01 04	C42	Spacewatch
(594808)	2018 CB_{13}	2011 10 23	C42	Pan-STARRS 1
(594809)	2018 CO_{18}	2018 02 10	G96	Mount Lemmon Survey
(594810)	2018 EC_{5}	2005 08 29	F51	Spacewatch
(594811)	2018 ES_{5}	2009 08 15	I41	Spacewatch
(594812)	2018 EH_{14}	2018 03 07	F51	Pan-STARRS 1
(594813)	2018 FM_{10}	2012 01 26	F51	Mount Lemmon Survey
(594814)	2018 FO_{12}	2007 02 21	F51	Spacewatch
(594815)	2018 FF_{16}	2004 11 04	F51	Spacewatch
(594816)	2018 FZ_{18}	2009 09 18	F51	Spacewatch
(594817)	2018 FS_{22}	2005 11 26	F51	Spacewatch
(594818)	2018 FW_{29}	2007 03 09	J04	Mount Lemmon Survey
(594819)	2018 GV_{2}	2007 10 12	G96	CSS
(594820)	2018 GC_{3}	2009 09 16	F51	CSS
(594821)	2018 GF_{5}	2013 05 08	G96	Pan-STARRS 1
(594822)	2018 HC_{2}	2018 04 24	G96	Mount Lemmon Survey
(594823)	2018 LE_{5}	2015 02 19	F51	Pan-STARRS 1
(594824)	2018 LH_{6}	2003 09 20	F51	NEAT
(594825)	2018 MU_{15}	2018 06 17	F51	Pan-STARRS 1
(594826)	2018 NF_{3}	2012 03 21	F51	Pan-STARRS 1
(594827)	2018 NO_{28}	2018 07 10	F51	Pan-STARRS 1
(594828)	2018 QF	2010 06 17	F51	Mount Lemmon Survey
(594829)	2018 RN_{61}	2015 11 08	G96	Pan-STARRS 1
(594830)	2018 TO_{13}	2007 09 10	D29	Mount Lemmon Survey
(594831)	2018 VB_{32}	2008 12 29	F52	Mount Lemmon Survey
(594832)	2018 VW_{34}	2014 08 22	C51	Pan-STARRS 1
(594833)	2018 VO_{45}	2008 12 29	F52	Spacewatch
(594834)	2018 VL_{48}	2001 05 23	F52	Elliot, J. L., Wasserman, L. H.
(594835)	2018 VA_{61}	2003 11 24	F52	Spacewatch
(594836)	2018 VO_{61}	2008 04 07	F52	Spacewatch
(594837)	2018 VB_{66}	1999 12 07	J04	Spacewatch
(594838)	2018 VG_{72}	2007 10 12	F52	Spacewatch
(594839)	2018 VZ_{73}	2011 10 24	F52	Pan-STARRS 1
(594840)	2018 VO_{74}	2002 04 09	F52	Buie, M. W., Jordan, A. B.
(594841)	2018 VV_{91}	2010 03 18	F52	Mount Lemmon Survey
(594842)	2018 VJ_{92}	2016 01 03	F52	Pan-STARRS 1
(594843)	2018 VV_{106}	2014 04 22	F52	CSS
(594844)	2018 VM_{108}	2007 12 31	F52	Spacewatch
(594845)	2018 VR_{109}	2007 11 18	F52	Mount Lemmon Survey
(594846)	2018 VE_{127}	2017 04 25	F52	Pan-STARRS 1
(594847)	2018 XV_{16}	2008 02 10	F51	Spacewatch
(594848)	2018 XF_{21}	2011 02 25	F51	Spacewatch
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(594850)	2018 YF_{3}	2007 11 04	F51	Mount Lemmon Survey
(594851)	2018 YN_{3}	2006 05 24	I41	Spacewatch
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(594853)	2019 AS_{23}	2010 10 10	F51	Mount Lemmon Survey
(594854)	2019 AE_{25}	2013 11 02	F51	Mount Lemmon Survey
(594855)	2019 AM_{26}	2015 01 19	I41	Pan-STARRS 1
(594856)	2019 AG_{34}	2005 12 24	F51	Spacewatch
(594857)	2019 AV_{35}	2006 01 10	F51	Mount Lemmon Survey
(594858)	2019 AM_{36}	2015 01 17	F51	Pan-STARRS 1
(594859)	2019 AL_{39}	2000 12 22	F51	Spacewatch
(594860)	2019 AW_{41}	2008 10 30	F51	Mount Lemmon Survey
(594861)	2019 AJ_{42}	2004 09 23	F51	Spacewatch
(594862)	2019 AS_{42}	2014 11 26	F51	Mount Lemmon Survey
(594863)	2019 AW_{42}	2009 02 01	F51	Mount Lemmon Survey
(594864)	2019 AT_{43}	2010 09 03	G96	Mount Lemmon Survey
(594865)	2019 AX_{43}	2015 01 15	T05	Pan-STARRS 1
(594866)	2019 AG_{44}	2008 02 28	703	CSS

(594867)	2019 AW_{53}	2009 04 30	F51	Spacewatch
(594868)	2019 AG_{59}	2019 01 02	F51	Pan-STARRS 1
(594869)	2019 AC_{81}	2017 09 23	F51	Pan-STARRS 1
(594870)	2019 BV_{6}	2002 02 12	F52	NEAT
(594871)	2019 BR_{8}	2007 04 22	I41	Mount Lemmon Survey
(594872)	2019 CR	2019 02 04	F51	Pan-STARRS 1
(594873)	2019 CJ_{7}	2002 02 06	D29	NEAT
(594874)	2019 CQ_{8}	2009 11 19	F51	Spacewatch
(594875)	2019 CB_{9}	2008 10 07	F51	Mount Lemmon Survey
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(594877)	2019 CY_{9}	2007 09 13	I41	Mount Lemmon Survey
(594878)	2019 CW_{10}	2007 02 21	I41	Mount Lemmon Survey
(594879)	2019 CX_{10}	2008 02 10	I41	Mount Lemmon Survey
(594880)	2019 EM_{3}	2010 02 15	B74	CSS
(594881)	2019 FR_{3}	2007 11 02	F51	Mount Lemmon Survey
(594882)	2019 FM_{4}	2008 04 09	D29	Spacewatch
(594883)	2019 FM_{15}	2019 03 31	G96	Mount Lemmon Survey
(594884)	2019 GH_{7}	2007 11 19	D29	Spacewatch
(594885)	2019 GD_{9}	2003 10 23	F51	Spacewatch
(594886)	2019 GJ_{11}	2006 11 16	F51	Mount Lemmon Survey
(594887)	2019 GM_{11}	2008 05 02	F51	Mount Lemmon Survey
(594888)	2019 GC_{15}	2006 02 02	F51	Spacewatch
(594889)	2019 GW_{17}	2008 02 28	F51	Mount Lemmon Survey
(594890)	2019 GF_{28}	2016 10 07	F51	Pan-STARRS 1
(594891)	2019 GN_{41}	2007 10 09	F51	Mount Lemmon Survey
(594892)	2019 HY	2004 09 15	I41	Spacewatch
(594893)	2019 HO_{4}	2006 12 24	258	Spacewatch
(594894)	2019 JQ_{3}	2010 01 08	258	Spacewatch
(594895)	2019 JW_{12}	2008 03 30	F51	Spacewatch
(594896)	2019 JY_{24}	2005 11 21	F51	Spacewatch
(594897)	2019 JW_{28}	2010 11 12	F51	Mount Lemmon Survey
(594898)	2019 JM_{30}	2006 02 27	F51	Spacewatch
(594899)	2019 JL_{32}	2011 03 09	F51	Mount Lemmon Survey
(594900)	2019 JV_{37}	2015 10 03	F51	Pan-STARRS 1
(594901)	2019 JG_{60}	2016 10 09	F51	Mount Lemmon Survey
(594902)	2019 KW_{4}	2010 10 09	F51	Mount Lemmon Survey
(594903)	2019 KZ_{4}	2010 10 30	F51	Mount Lemmon Survey
(594904)	2019 KQ_{10}	2010 11 06	F51	Spacewatch
(594905)	2019 LA_{4}	2019 06 01	F51	Pan-STARRS 1
(594906)	2019 LV_{6}	2014 04 09	F51	Pan-STARRS 1
(594907)	2019 NR_{38}	2019 06 29	F51	Pan-STARRS 1
(594908)	2019 NY_{47}	2010 12 02	F51	Mount Lemmon Survey
(594909)	2019 ON_{23}	2019 07 28	F52	Pan-STARRS 2
(594910)	2019 PQ_{30}	2015 03 21	J04	Pan-STARRS 1
(594911)	2019 PT_{33}	2019 08 04	F51	Pan-STARRS 1
(594912)	2019 UE_{9}	2011 11 17	F52	Mount Lemmon Survey
(594913)	2020 AV_{2}	2020 01 04	I41	Palomar Transient Factory
(594914)	2020 BA_{86}	2017 05 27	G96	Pan-STARRS 1
(594915)	2020 DB_{8}	2007 03 25	G96	Mount Lemmon Survey
(594916)	2020 FT_{12}	2000 07 31	F51	Buie, M. W., Kern, S. D.
(594917)	2020 GL_{5}	2017 10 15	G96	Mount Lemmon Survey
(594918)	2020 GE_{6}	2011 09 24	G96	Pan-STARRS 1
(594919)	2020 GT_{6}	2004 10 08	G96	NEAT
(594920)	2020 GV_{7}	2011 10 26	F51	Pan-STARRS 1
(594921)	2020 HW_{13}	2016 06 12	F51	Mount Lemmon Survey
(594922)	2020 HJ_{27}	2015 01 22	G96	Pan-STARRS 1
(594923)	2020 HV_{29}	2016 10 02	F51	Pan-STARRS 1
(594924)	2020 HL_{36}	2016 08 07	F52	Pan-STARRS 1
(594925)	2020 HS_{36}	2007 04 16	G96	Mount Lemmon Survey
(594926)	2020 HM_{82}	2006 01 24	G96	Spacewatch
(594927)	2020 JL_{6}	2014 08 27	F51	Pan-STARRS 1
(594928)	2020 JE_{14}	2009 04 21	F51	Spacewatch
(594929)	2020 KW_{15}	2003 07 05	G96	Spacewatch
(594930)	2020 KX_{16}	2015 10 13	F51	Pan-STARRS 1
(594931)	2020 KY_{22}	2009 05 15	F51	Spacewatch
(594932)	2020 PQ_{51}	2010 11 10	F51	Mount Lemmon Survey
(594933)	2020 RY_{86}	2013 01 17	F51	Pan-STARRS 1
(594934)	2020 YN_{7}	2011 11 02	G96	Mount Lemmon Survey
(594935)	2021 AL_{14}	2011 03 13	G96	Mount Lemmon Survey
(594936)	2021 EX_{2}	2021 03 07	I41	Palomar Transient Factory
(594937)	2021 FF_{31}	2010 03 25	G96	Spacewatch
(594938)	2021 GE_{13}	2021 04 10	F52	Pan-STARRS 2
(594939)	2021 GH_{25}	2010 02 15	G96	Spacewatch
(594940)	2021 MC_{7}	2007 01 28	F51	Mount Lemmon Survey
(594941)	2021 NE_{12}	2007 12 16	F51	Mount Lemmon Survey
(594942)	2021 NS_{12}	2019 01 27	F51	Mount Lemmon Survey
(594943)	2021 NG_{14}	2020 04 16	F51	Mount Lemmon Survey

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2021 Jul 5.0 TT):

Object	H	M	ω	Ω	i	e	a	MPO
(585963)	16.5	35.54521	104.27471	298.88952	9.11711	0.0724632	3.1048202641201	
(585964)	17.0	70.11543	347.49608	294.25173	2.49707	0.0588086	2.7609157641201	
(585965)	14.3	326.85513	321.78594	107.84699	13.78563	0.0706352	5.2556616641201	
(585966)	17.6	326.83885	98.95136	294.04627	3.58596	0.0875874	2.7408140641202	
(585967)	18.4	339.73593	53.37666	305.88389	7.56344	0.1866544	2.1791536641202	
(585968)	14.2	257.62499	41.43424	84.75029	8.63471	0.0762433	5.2043787641202	
(585969)	18.1	285.72330	150.03358	289.19678	4.43543	0.1105744	2.4176914641203	
(585970)	17.3	191.38269	6.60476	133.05701	4.93864	0.0438367	2.8199007641203	
(585971)	17.5	263.51732	141.75831	292.16339	2.27311	0.0687474	2.7846764641203	
(585972)	18.1	326.70258	78.59346	306.71577	5.74154	0.1310290	2.4271141641204	
(585973)	16.2	315.44249	316.82915	138.45678	6.05339	0.1213513	3.1655947641204	
(585974)	17.0	7.06478	233.69461	139.29921	5.91044	0.0470711	2.7485837641204	
(585975)	16.6	127.43011	177.26841	309.79641	8.95558	0.0612970	2.8927784641205	
(585976)	17.9	274.00847	311.93099	270.24181	1.26744	0.1349119	2.3418734641205	
(585977)	18.8	19.18642	294.43297	131.23231	2.68428	0.1892616	2.3575329641205	
(585978)	16.4	345.04497	91.92750	324.25086	17.73019	0.1680973	3.1755232641206	
(585979)	17.0	317.97288	71.77844	349.52566	12.64901	0.1337894	2.7679238641206	
(585980)	17.6	305.96089	16.14862	119.46430	2.03444	0.1393099	2.3825805641206	
(585981)	17.1	346.66415	115.24511	341.68993	0.27953	0.1530174	3.1438142641207	
(585982)	17.0	100.23042	230.82107	44.22638	2.61726	0.0329074	2.8261561641207	
(585983)	17.3	249.35726	223.70599	241.08120	9.41071	0.0673478	2.7894089641208	
(585984)	16.9	288.03001	74.09591	183.72219	2.38547	0.0792070	3.0707330641208	
(585985)	18.7	200.53065	35.61717	200.86181	3.18359	0.1395575	2.4205948641208	

(585986)	17.2	28.31197	266.00673	45.53995	2.59897	0.0553662	2.8640672641209
(585987)	14.2	307.38240	41.96318	27.83759	13.81810	0.1280446	5.2988623641209
(585988)	18.8	205.76833	275.80126	234.03674	1.99227	0.1178123	2.2176202641209
(585989)	18.1	284.59893	224.67754	38.63854	4.48385	0.1514723	2.3495797641210
(585990)	18.3	29.79646	74.98437	263.87160	5.63110	0.1501519	2.2615638641210
(585991)	17.5	257.17629	101.07149	347.43898	4.26370	0.1083060	3.0051662641210
(585992)	18.8	298.02916	55.97094	356.18991	0.98913	0.1991190	2.2823358641210
(585993)	18.3	243.59772	217.76783	226.62183	3.67007	0.1358692	2.6137282641211
(585994)	17.9	33.68892	145.71604	169.85516	7.53598	0.1500436	2.2807446641211
(585995)	16.6	263.46735	267.54396	164.67079	2.76610	0.1512686	3.0403800641211
(585996)	18.1	95.30376	354.15563	253.16264	2.00956	0.1240144	2.2751284641212
(585997)	17.2	351.08436	243.41556	129.87200	6.06112	0.2827812	2.5749762641212
(585998)	16.7	276.68109	125.29735	316.45142	9.84433	0.0716131	2.9926206641213
(585999)	18.4	46.67225	130.47730	147.19115	7.67089	0.1126971	2.2958607641213
(586000)	17.8	120.83376	115.88128	350.28354	8.82570	0.1749043	2.7170678641213
(586001)	18.7	268.26533	236.02766	205.98377	0.89041	0.1153091	2.2944083641213
(586002)	18.5	209.75054	324.89438	132.86723	2.29636	0.1446500	2.3300514641214
(586003)	16.9	354.25911	39.19903	321.27114	6.38734	0.1544315	3.0052386641214
(586004)	17.2	286.83664	278.07703	145.40405	10.59449	0.0981377	3.0168000641214
(586005)	17.5	21.20450	310.27431	7.11382	12.49273	0.1752992	2.5896361641215
(586006)	19.1	32.48910	334.23721	316.92835	17.91200	0.0740246	1.8937942641215
(586007)	17.1	69.89329	102.89756	137.54240	5.94935	0.0881573	3.0390818641215
(586008)	16.8	323.06271	8.88193	76.46334	9.27324	0.1187018	2.9551139641216
(586009)	18.9	14.67096	129.24882	188.27279	12.87263	0.3133942	2.2953884641216
(586010)	17.2	4.73220	310.76860	7.49796	31.83457	0.2176917	2.6102105641216
(586011)	16.9	343.46519	186.25579	190.58465	4.29208	0.1837696	2.5921287641216
(586012)	16.7	316.12628	233.40478	192.55688	12.74443	0.0224833	2.9954544641217
(586013)	16.7	178.39247	344.93470	197.81841	13.67860	0.0594048	3.0210085641217
(586014)	17.9	310.01714	18.38247	24.15396	3.03033	0.2178546	2.6167298641218
(586015)	16.5	48.92204	124.00467	210.30324	13.13718	0.1471933	2.5441189641218
(586016)	16.9	345.49797	9.78575	4.39354	4.16363	0.1466298	3.0165049641218
(586017)	16.9	355.58142	325.09487	330.64340	11.30168	0.0269324	3.0741071641219
(586018)	17.7	356.12111	279.20558	59.55712	10.46134	0.1235663	2.6095481641219
(586019)	17.1	331.41816	2.42474	25.94449	11.40049	0.0900425	3.0293999641219
(586020)	16.6	151.32531	27.56391	175.78154	11.15036	0.0266605	3.0218103641219
(586021)	16.5	200.02844	44.58923	81.87731	22.84672	0.0478665	2.6554751641220
(586022)	17.4	66.28343	92.50649	219.89173	13.84157	0.1244889	2.5683308641220
(586023)	18.3	176.47050	19.83400	133.42814	4.18838	0.0710071	2.5976676641221
(586024)	17.0	241.19418	61.97268	20.77407	2.89167	0.0881226	3.0978432641221
(586025)	17.4	354.85087	337.35166	66.90749	16.01187	0.1001880	2.5663047641221
(586026)	16.8	292.09840	57.59400	357.66391	10.75484	0.0077051	3.0270917641221
(586027)	16.3	261.81228	244.40475	181.54814	26.18782	0.2365791	3.0882504641222
(586028)	17.3	342.42613	353.42847	7.44523	14.81470	0.1983218	2.6063886641222
(586029)	17.1	294.04838	229.23342	195.25435	28.07219	0.2577821	2.6206917641222
(586030)	17.4	293.92106	0.96246	12.71489	4.63580	0.1478882	2.6376419641223
(586031)	17.6	358.38070	237.27691	112.48024	7.15665	0.1963267	2.2943947641223
(586032)	17.1	5.49731	211.94135	174.08507	14.16009	0.0895416	2.9603207641223
(586033)	17.4	279.95805	77.80399	19.44779	7.55511	0.1638274	2.6038596641224
(586034)	16.8	45.11809	156.65998	179.18720	9.46695	0.0696329	2.9717761641224
(586035)	17.5	235.80567	121.36718	4.73821	13.95398	0.0973895	2.5943864641225
(586036)	17.0	324.59637	227.17449	169.70439	16.33035	0.0816704	3.0057477641225
(586037)	17.0	252.98360	244.06422	179.16781	10.57021	0.0096581	3.0791108641225
(586038)	17.6	5.64272	147.89664	232.48832	7.80086	0.1135512	2.5483564641225
(586039)	17.2	3.78259	313.99141	14.49864	10.70283	0.0926710	2.6117637641226
(586040)	16.9	349.72930	112.27563	246.98312	4.30095	0.1804276	3.0553282641226
(586041)	16.9	326.18792	0.76728	46.39997	15.55805	0.1689890	2.6078488641226
(586042)	17.7	289.10308	251.74372	224.14406	14.15745	0.0661129	2.5833790641227
(586043)	18.5	201.16112	278.17002	192.12074	1.49795	0.1258214	2.3644022641227
(586044)	18.2	317.06160	181.49082	233.53078	1.95117	0.1880451	2.6139438641227
(586045)	16.4	342.86270	276.24823	102.18026	11.47269	0.0941449	3.0381337641227
(586046)	16.8	18.07544	241.00179	69.49811	13.15229	0.2693437	2.6392296641228
(586047)	17.4	151.97769	141.30568	40.57941	6.43607	0.0459820	2.6608423641228
(586048)	17.2	49.30967	258.74250	30.54947	14.29647	0.1945089	2.5980835641229
(586049)	16.7	316.16198	169.93107	253.57049	8.14307	0.1200613	3.0153119641229
(586050)	17.5	352.78854	96.71054	260.86785	13.10502	0.2085311	2.5944283641229
(586051)	17.8	347.92228	320.47060	38.58369	2.84283	0.1182173	2.6266909641230
(586052)	17.7	337.02927	299.44724	81.35790	3.12918	0.1489853	2.6256076641230
(586053)	17.4	12.23022	297.55071	54.50004	12.41685	0.2173621	2.5984822641230
(586054)	17.0	196.43727	31.31550	120.10278	2.47639	0.1200599	3.1076551641230
(586055)	16.9	60.34381	224.96949	74.69151	12.58540	0.1900561	2.6074662641231
(586056)	18.8	241.86279	233.76018	211.03869	4.86771	0.1286721	2.3465562641231
(586057)	17.7	180.84194	263.13017	217.59571	7.37692	0.1541722	2.7094211641231
(586058)	17.6	37.37650	210.36266	88.23265	6.88445	0.1224825	2.3282769641231
(586059)	16.6	305.49445	123.03166	303.19603	15.20024	0.1674757	3.1114826641232
(586060)	16.6	230.80090	30.00428	106.31267	10.84499	0.0298544	3.1141153641232
(586061)	15.8	194.06016	243.59432	287.77725	15.19626	0.1817105	3.1431679641232
(586062)	17.5	254.81998	21.14784	92.54166	13.26097	0.1495587	2.6506895641233
(586063)	17.5	199.98770	250.79357	264.80864	9.68605	0.0501348	2.6665201641233
(586064)	17.2	335.39329	322.99828	92.32865	13.66546	0.1337281	2.6137770641233
(586065)	16.4	152.49019	266.06956	259.70910	14.85231	0.1676632	3.2043565641234
(586066)	18.1	137.41887	46.16601	90.43599	3.38263	0.1607257	2.4311999641234
(586067)	16.6	283.42219	352.76434	117.89819	10.95839	0.1241797	3.0794906641234
(586068)	16.6	342.08796	94.48630	296.53375	4.87435	0.0491426	3.1060863641234
(586069)	17.9	182.81646	156.27789	55.28298	2.08333	0.1324692	2.3374319641235
(586070)	17.1	2.13695	232.96848	114.59909	9.72883	0.1333758	2.6708425641235
(586071)	13.9	344.53715	335.59621	71.99988	20.98181	0.0886369	5.0851285641236
(586072)	16.6	11.89000	228.46980	130.46823	10.35839	0.0854016	3.1322728641236
(586073)	16.6	282.68101	90.91718	339.42001	4.95585	0.0311733	3.1784889641236
(586074)	16.9	350.43323	232.67159	134.70552	15.83240	0.1712238	2.6814792641236
(586075)	16.7	180.99602	183.96036	333.68648	4.08780	0.1065485	3.2150319641237
(586076)	18.6	241.26271	139.62535	333.76720	2.37585	0.1734530	2.3636668641237
(586077)	16.9	343.67293	121.80778	333.41973	10.21673	0.0680016	3.0516166641238
(586078)	16.9	326.91272	107.13758	325.08420	7.82230	0.0690824	3.0953649641238
(586079)	18.2	102.79080	79.93176	146.81333	2.70586	0.1847351	2.4066901641238
(586080)	17.4	173.48125	72.47642	179.11269	12.71252	0.2296521	2.6702298641239
(586081)	18.8	267.20337	221.03561	233.24303	1.38536	0.1699643	2.3633553641239
(586082)	17.1	218.92540	214.32596	282.48260	14.38428	0.1688614	2.6966901641239
(586083)	18.3	177.91267	309.01911	327.86022	4.20721	0.1934749	2.3199506641240
(586084)	16.6	258.50723	317.13578	155.74358	9.48542	0.1675947	3.1455608641240
(586085)	16.3	291.89430	288.02101	167.05884	9.58871	0.0701400	3.1370038641240
(586086)	17.9	265.21673	117.95157	354.08491	8.42623	0.2918260	2.6730329641241
(586087)	16.1	359.31024	153.73832	243.39747	7.28766	0.0711430	3.1205570641241
(586088)	16.6	294.80037	194.48364	232.79755	10.91540	0.1294266	3.1455697641241
(586089)	14.0	66.92101	7.97922	308.93389	11.02311	0.0771363	5.1905806641242

(586090)	16.8	119.95194	20.03617	223.27324	7.84525	0.0397106	3.1697546641242
(586091)	17.0	185.72586	254.70986	260.77856	12.48497	0.1946483	2.7175430641242
(586092)	17.8	32.18044	354.25452	299.97790	3.17338	0.0421262	2.7570394641242
(586093)	16.8	149.33706	343.92232	206.33900	5.32111	0.1142975	3.2262533641243
(586094)	14.1	326.60528	358.89459	48.82495	12.88811	0.0602675	5.1725014641243
(586095)	17.1	121.05065	262.40584	314.25052	8.60606	0.0197646	2.7423641641243
(586096)	17.2	175.23717	141.03210	121.00008	2.34560	0.1160194	3.1067558641244
(586097)	17.2	1.08539	171.31990	299.80575	7.05008	0.1938019	2.9920955641244
(586098)	18.8	222.16254	78.16462	23.43003	4.53282	0.0471175	2.1515856641244
(586099)	17.9	213.60336	301.64495	177.72869	3.51146	0.1639840	2.7492553641245
(586100)	18.5	97.97421	255.92787	334.30195	0.74309	0.1500205	2.4258375641245
(586101)	17.6	311.53942	42.81345	1.43871	9.92420	0.1442732	2.7216004641245
(586102)	17.6	317.49964	225.32578	185.11217	4.22815	0.0943163	2.7120410641246
(586103)	17.7	325.70563	346.27593	10.54279	3.42203	0.1069765	2.7757159641246
(586104)	18.1	70.28722	219.72605	14.29752	2.43901	0.1177815	2.4436426641246
(586105)	16.8	333.96643	23.22759	3.25821	12.41029	0.1165094	3.2219901641246
(586106)	18.5	284.75518	9.66588	359.07604	0.83247	0.1996199	2.4419762641247
(586107)	16.5	343.86137	197.94834	184.22271	10.99415	0.2168098	3.2076780641247
(586108)	17.9	342.02239	339.61411	0.58242	4.02793	0.0775841	2.7804313641248
(586109)	19.0	357.79849	13.70417	7.29083	4.53894	0.1546847	2.3681632641248
(586110)	16.7	260.46851	295.53449	168.23524	10.11800	0.1744337	3.1713617641248
(586111)	18.3	262.45219	289.55269	131.33975	6.51618	0.1501789	2.4090789641248
(586112)	16.3	316.27644	316.09878	97.63400	11.60250	0.0159556	3.2317257641249
(586113)	17.4	25.78408	8.38164	34.51908	6.51952	0.0220465	2.6803495641249
(586114)	17.6	53.51179	42.26175	237.23254	5.36252	0.1853663	2.4499714641249
(586115)	17.6	270.58347	107.66506	311.13726	3.33652	0.0571338	2.7986913641250
(586116)	17.9	149.69183	187.79453	175.81721	5.68785	0.0700207	2.6946237641250
(586117)	17.4	186.38588	0.15055	173.28099	5.34561	0.0854431	2.7473356641250
(586118)	18.3	315.79739	19.71376	36.73853	8.77709	0.2323767	2.7451959641251
(586119)	17.7	221.72891	96.87805	25.03600	4.09956	0.1885735	2.7161371641251
(586120)	16.9	33.73957	357.54371	2.17773	9.70809	0.0792354	3.1464347641251
(586121)	17.5	58.38710	178.56924	94.57067	5.55777	0.2041939	2.4766919641251
(586122)	16.5	20.52871	116.31368	237.77808	13.72171	0.1632338	2.8645513641252
(586123)	16.9	71.91137	155.36675	123.89817	12.45374	0.0963481	2.4793636641252
(586124)	17.2	86.27310	202.62723	149.64822	4.90883	0.0812701	2.7771759641253
(586125)	17.5	337.05215	328.75639	53.37395	7.60554	0.1826246	2.2119333641253
(586126)	18.1	141.70728	335.35738	202.19094	3.27707	0.1833342	2.5277415641254
(586127)	17.1	152.59114	236.45133	274.29605	0.83978	0.0349350	2.9402907641254
(586128)	17.9	48.41860	268.24926	165.55325	6.19387	0.0991621	2.3975802641254
(586129)	15.8	51.59839	53.96971	261.82755	14.23338	0.0671738	3.4553560641255
(586130)	18.4	185.69426	354.99138	166.83790	2.66609	0.0869788	2.2194473641255
(586131)	17.1	278.89450	124.03405	315.51923	1.09275	0.0355407	2.9133396641255
(586132)	18.3	189.23218	233.58739	309.75381	1.72207	0.1098414	2.4602741641256
(586133)	17.1	296.46392	61.72223	1.53531	11.75608	0.0321444	2.9205772641256
(586134)	18.0	30.74218	318.44645	12.61851	5.61176	0.2132041	2.2105945641256
(586135)	17.9	19.83182	169.00168	163.26144	6.57740	0.1150548	2.2158100641257
(586136)	16.6	344.59119	238.92895	173.70371	15.03122	0.1391799	2.8747432641257
(586137)	17.2	333.53364	200.75548	158.15202	2.36366	0.1281676	2.9400920641258
(586138)	18.7	357.06083	171.57247	170.79551	2.90321	0.1588969	2.5152435641258
(586139)	17.5	104.57058	68.59655	176.51317	4.89559	0.0306697	2.5212434641258
(586140)	17.6	238.16131	64.87579	296.29634	4.43197	0.1965361	2.6264969641259
(586141)	17.4	72.18348	116.23243	176.40486	8.93308	0.0870255	2.8648261641259
(586142)	17.5	89.93662	197.57332	68.26763	12.25930	0.0427917	2.5218375641259
(586143)	19.1	185.91879	216.13761	116.42230	0.73666	0.2183227	2.3597185641259
(586144)	16.8	215.88479	225.60976	271.59110	5.63199	0.0377590	2.5248341641260
(586145)	18.0	4.83295	195.22379	107.05063	2.49724	0.1051790	2.5491023641260
(586146)	19.2	284.62467	230.82225	189.30142	1.59982	0.1906670	2.2446794641260
(586147)	18.8	218.59714	95.54871	16.31828	26.97132	0.0855706	1.7085889641261
(586148)	18.3	299.91431	285.05411	66.01111	8.86149	0.2159154	2.2721571641261
(586149)	18.8	294.41487	229.88512	217.21571	20.75311	0.0894926	1.8331592641261
(586150)	16.6	102.69546	225.58643	13.88647	13.21850	0.1271610	2.5280939641262
(586151)	18.6	357.81905	220.61122	119.17317	3.28110	0.1997308	2.2314667641262
(586152)	16.4	231.71958	243.69694	160.91475	14.79809	0.0802691	3.0865193641262
(586153)	17.6	283.26320	289.96277	167.48744	9.91750	0.2237605	2.5264263641263
(586154)	17.6	184.10741	348.56561	179.95736	12.81725	0.0344813	2.5316069641263
(586155)	16.9	179.31169	332.10142	197.14189	9.79067	0.0430222	2.9664642641263
(586156)	17.9	19.83854	27.72933	295.81438	3.43967	0.1049469	2.5381447641264
(586157)	18.9	246.87161	73.04172	25.30753	3.68426	0.0733352	2.2378694641264
(586158)	19.1	350.25208	310.62002	35.14815	3.63993	0.2536696	2.5356680641264
(586159)	17.0	226.90904	296.62228	40.36272	1.32453	0.1682168	3.1545222641264
(586160)	17.6	348.10474	294.87098	56.04639	15.46894	0.1679137	2.5414299641265
(586161)	17.7	348.14645	183.44068	190.14873	8.69504	0.0808180	2.5130915641265
(586162)	16.0	5.90001	63.09706	297.19767	14.14462	0.1592455	2.5414858641265
(586163)	17.6	307.25609	200.29884	243.06500	6.34512	0.0323283	2.2272729641266
(586164)	18.3	15.43140	311.32721	117.27246	3.25843	0.1778322	2.4759745641266
(586165)	17.0	266.17940	157.14771	304.75264	8.43269	0.0618341	3.0107364641267
(586166)	17.1	182.91796	212.44130	276.87491	8.04346	0.1906446	3.1069513641267
(586167)	17.9	321.29716	317.92336	106.59603	4.67807	0.0936974	2.2342911641267
(586168)	17.1	213.32412	184.02759	313.84974	2.29324	0.1110532	3.0558862641268
(586169)	16.5	3.69711	275.35525	87.09413	11.66253	0.1532175	2.9924674641268
(586170)	16.6	285.45386	240.54537	220.33847	8.49445	0.1311699	2.9990406641268
(586171)	16.4	184.47170	218.29807	307.28570	11.45481	0.1719248	3.0827617641268
(586172)	16.2	199.05142	318.24416	114.57373	20.78443	0.1172610	3.1638570641269
(586173)	17.2	233.88367	138.29142	0.18388	12.04471	0.2823584	3.0334967641269
(586174)	16.4	354.79469	8.31144	355.26510	12.78791	0.0736266	3.0313979641270
(586175)	17.1	231.20182	104.89680	9.27485	11.24813	0.1613564	3.0718068641270
(586176)	17.2	320.68297	78.19380	325.70666	10.21288	0.1187337	3.0123745641270
(586177)	16.7	199.74798	72.55338	93.61470	10.74582	0.0284268	3.0257377641270
(586178)	18.7	281.12756	94.99320	347.48464	6.63169	0.1065956	2.2671646641271
(586179)	17.2	246.66437	84.89274	17.23798	16.57981	0.0727655	3.0657091641271
(586180)	17.0	328.67622	79.68701	314.79472	4.78227	0.0807565	3.0318630641271
(586181)	18.6	308.63127	279.26769	132.83409	5.17062	0.1654527	2.2627213641271
(586182)	17.3	131.78769	11.63937	133.94286	2.85133	0.0923829	3.1913198641272
(586183)	17.2	226.37251	162.55421	314.24961	6.09307	0.1408213	2.6066853641272
(586184)	16.3	167.23167	79.78884	114.21023	13.44721	0.1264939	2.6095893641272
(586185)	17.9	134.15098	33.56353	161.51667	23.36913	0.0710431	1.8853229641273
(586186)	16.7	240.62605	318.61096	136.04231	18.41106	0.1733034	3.1056783641274
(586187)	17.0	227.07737	137.94906	322.34293	12.17663	0.1469622	2.6214567641274
(586188)	17.0	286.95086	131.47270	341.36159	10.12616	0.2212008	2.9893021641274
(586189)	16.9	242.46398	326.40520	139.98289	8.82324	0.1359449	3.0831965641275
(586190)	17.5	264.69275	189.94626	309.55848	3.05452	0.2510751	2.9968886641275
(586191)	16.2	60.92829	334.00611	309.25507	3.75196	0.0742062	3.0913552641275
(586192)	17.6	88.60767	268.53274	321.77558	4.55474	0.2440948	2.6844269641276
(586193)	18.7	124.42798	251.59354	335.71366	19.15269	0.0890606	1.8799216641276

(586194)	13.8	264.39065	339.15844	157.40379	9.40266	0.0531355	5.1477492641276
(586195)	16.9	310.98130	301.34185	85.48678	17.39604	0.1377280	3.0677670641277
(586196)	16.9	249.09560	300.45754	147.75719	22.49822	0.0799357	2.6158292641277
(586197)	17.1	287.48928	249.70002	147.32843	1.40532	0.1780888	3.0855442641278
(586198)	14.3	24.35357	235.92787	119.29751	3.33051	0.1974998	5.1847825641278
(586199)	17.6	345.38971	246.16997	128.91071	15.27237	0.0587028	2.5918199641279
(586200)	14.8	331.25254	20.12589	27.82612	1.52024	0.1126220	5.0781984641279
(586201)	17.7	81.64500	229.74814	38.62450	3.24676	0.0653360	2.6377492641279
(586202)	17.1	236.81812	148.06306	309.78463	10.38295	0.0317706	3.0946348641279
(586203)	17.8	44.01824	69.65807	239.80924	3.62740	0.0336677	2.6206325641280
(586204)	14.6	27.43426	17.28120	331.04430	17.56011	0.0194053	5.1642581641280
(586205)	17.0	241.43588	234.88720	227.79773	8.50244	0.0851656	3.0826624641280
(586206)	17.9	254.33862	92.51968	358.56337	18.03087	0.0862963	1.8652409641280
(586207)	16.9	182.62435	339.42086	166.23724	23.94871	0.0573503	3.1503324641281
(586208)	17.4	217.42217	281.77476	220.11436	4.72033	0.0891165	2.2915770641281
(586209)	18.2	142.75079	233.79576	291.35283	2.06292	0.1683404	2.3449726641282
(586210)	17.0	283.24592	99.93575	0.68920	8.47025	0.0720357	3.0527312641282
(586211)	16.7	75.02677	314.80596	327.28697	11.55465	0.0555139	3.0934972641283
(586212)	16.6	181.34095	28.89083	158.59814	16.52701	0.0300722	3.0921755641283
(586213)	18.8	177.82749	77.26878	139.43426	4.03139	0.1211686	2.2828073641283
(586214)	17.3	178.47623	340.72723	153.52697	10.90427	0.1594771	2.6642509641284
(586215)	17.0	113.49305	242.23273	329.57724	11.98477	0.2074927	2.6878964641284
(586216)	16.4	172.50112	246.08196	336.94704	13.39987	0.2098670	3.0742617641285
(586217)	17.6	283.58937	106.50107	341.41011	11.14154	0.1532863	2.6016396641285
(586218)	17.7	330.60752	318.36966	251.86913	1.99136	0.1183511	2.4625356641285
(586219)	17.1	226.88210	188.32541	346.15033	9.13284	0.1103366	2.5894331641286
(586220)	17.7	240.66592	147.45944	335.43456	5.61122	0.2564211	2.6086584641286
(586221)	18.1	115.31144	174.76517	19.51702	1.67925	0.1271261	2.3490353641286
(586222)	16.1	133.12303	198.20133	2.48953	17.50510	0.1598362	3.1493261641287
(586223)	16.7	336.30902	280.69481	150.98330	10.58791	0.0779639	2.9926498641287
(586224)	16.3	73.93856	108.91448	147.39475	5.78372	0.1009701	3.1564370641287
(586225)	14.1	259.72990	298.06883	177.82171	5.20505	0.0904159	5.2117717641288
(586226)	17.1	302.70535	14.41682	60.07609	13.16610	0.0811787	2.6176376641288
(586227)	17.2	279.66203	295.03099	144.67927	9.91627	0.1804798	3.0741511641288
(586228)	18.3	270.90098	88.36287	23.80364	4.32158	0.1980616	2.6053545641289
(586229)	17.2	76.11651	310.43715	109.66346	3.27571	0.0612352	2.8868332641289
(586230)	18.4	119.22654	28.61295	200.90395	8.39907	0.0887141	2.3048285641289
(586231)	18.8	141.50118	54.94437	150.91213	7.93870	0.0564432	2.3168009641290
(586232)	17.0	211.23329	358.90461	141.21726	6.12088	0.0895380	3.1179051641290
(586233)	17.2	211.47340	317.44888	138.26617	2.03808	0.1505516	3.1668167641290
(586234)	17.0	291.89285	166.43211	268.16511	3.65902	0.0275624	3.0680179641290
(586235)	16.9	348.32817	248.89236	143.30067	11.92840	0.0840145	3.0639323641291
(586236)	14.7	293.69479	97.76479	341.56205	6.61386	0.0097402	5.2767853641291
(586237)	16.9	286.77340	333.48217	167.32958	5.96271	0.1614430	2.9951357641291
(586238)	16.3	218.41788	121.58831	12.53280	10.97113	0.1271893	3.1193673641291
(586239)	18.5	136.10901	212.46155	344.00496	19.06301	0.0825001	1.8878607641292
(586240)	14.6	251.30922	128.92777	1.69176	4.22850	0.0786264	5.1699883641292
(586241)	18.5	53.09440	32.49543	234.71797	0.77367	0.1637765	2.3629120641293
(586242)	17.4	148.47214	16.25618	181.49642	8.68170	0.0553205	2.6568442641293
(586243)	16.9	121.82368	204.15494	0.12559	23.78669	0.1813521	2.3346452641293
(586244)	17.0	163.60394	337.86885	205.22641	13.92136	0.1907616	2.6660087641294
(586245)	17.9	106.65300	3.66241	187.68564	10.37817	0.1286527	2.7178787641294
(586246)	17.1	220.36351	304.21113	203.52316	5.35014	0.1434049	2.6305200641294
(586247)	15.8	131.47858	308.83889	286.37411	7.72570	0.0899093	3.1231330641295
(586248)	17.1	165.74819	330.37873	220.05162	2.37733	0.1381838	2.6542577641295
(586249)	17.5	149.56285	322.62250	203.47517	2.28505	0.1299873	2.7023083641296
(586250)	16.9	51.61735	195.48356	35.75919	9.91095	0.1279145	2.7524835641296
(586251)	16.4	145.69630	23.43646	206.49364	11.67509	0.0159885	3.1127889641297
(586252)	16.9	181.82741	348.42866	196.59754	2.59448	0.0617705	3.1452656641297
(586253)	18.3	56.89373	219.76252	45.58832	1.88867	0.1678324	2.3675736641297
(586254)	18.5	209.88998	76.54532	44.70765	5.61073	0.1679485	2.3309268641298
(586255)	17.1	296.91346	242.56662	193.79455	13.48174	0.1444021	2.6244265641298
(586256)	18.2	129.10804	170.51794	356.07743	2.26284	0.1201592	2.3664276641298
(586257)	16.3	39.92267	197.05960	84.45613	16.02996	0.1059729	2.7244451641299
(586258)	16.3	170.83641	162.39147	5.81389	9.23538	0.0278936	3.1545203641300
(586259)	17.2	167.38667	253.44717	285.27278	7.62615	0.1431140	2.3241487641300
(586260)	16.9	133.65910	231.26530	345.98494	5.13585	0.1201379	3.1442142641300
(586261)	17.4	308.09521	111.07854	280.96981	3.82090	0.1290282	2.6993574641301
(586262)	17.3	240.05189	143.88444	342.30740	13.14790	0.1984483	2.6136388641301
(586263)	18.3	99.36632	48.67538	179.05194	1.10576	0.1344382	2.3461706641301
(586264)	14.4	352.67415	258.21220	133.59304	17.31027	0.0304048	5.1528200641302
(586265)	18.4	53.66557	229.28426	37.37348	3.31030	0.2243105	2.3712232641302
(586266)	16.8	288.28317	282.12334	182.38800	11.80040	0.0857092	3.0599246641302
(586267)	17.9	34.61967	291.71302	25.76116	1.29508	0.1515339	2.6716873641303
(586268)	17.9	77.51899	219.14863	12.95161	2.63366	0.1545409	2.3738844641303
(586269)	17.1	321.72790	4.04637	187.50242	3.45050	0.0915266	2.9183349641303
(586270)	19.1	34.97291	310.40325	339.77981	0.77800	0.1943524	2.3809564641304
(586271)	16.8	279.60365	294.44433	138.13074	9.71712	0.0269761	3.2101642641304
(586272)	17.8	60.99391	99.58223	129.94619	8.74714	0.1165237	2.7708224641304
(586273)	17.1	111.30080	52.87352	168.00230	8.54600	0.1970569	2.7222574641304
(586274)	17.8	54.89233	199.73968	90.75471	6.18750	0.2101856	2.3699648641305
(586275)	17.2	72.98439	71.08109	197.16986	8.67435	0.1203153	2.7684047641305
(586276)	17.8	34.08470	179.92035	130.74721	11.15794	0.2209441	2.3951520641306
(586277)	17.2	56.96869	21.78527	275.90849	8.32838	0.2396770	2.3823822641306
(586278)	17.9	32.28948	28.50370	263.32538	7.40341	0.2152809	2.7877262641306
(586279)	17.7	35.63023	206.49407	62.90180	2.64597	0.2038285	2.8038137641306
(586280)	16.1	223.70385	210.55205	329.09447	8.19185	0.0575539	3.1947650641307
(586281)	17.2	15.31946	53.28022	307.04158	8.06004	0.1871390	2.7561865641307
(586282)	17.0	23.41590	177.41480	137.98356	8.33561	0.3327568	2.7826479641307
(586283)	16.9	225.62724	111.78695	126.04549	10.08249	0.1862228	3.0939701641308
(586284)	17.4	15.80275	186.70116	153.62879	7.81387	0.0586231	2.7665981641308
(586285)	18.4	28.75100	351.70224	313.51276	17.92933	0.0622126	1.9318331641309
(586286)	16.6	12.90683	187.39419	141.63067	9.83341	0.1649058	2.7830529641309
(586287)	18.4	35.84547	341.83255	318.37111	18.27847	0.0385607	1.9297357641310
(586288)	16.9	27.24685	357.78622	338.48043	14.30213	0.1634352	2.7602225641310
(586289)	17.5	32.36824	84.92101	208.86950	9.22845	0.2869894	2.7971707641310
(586290)	17.6	18.98854	231.03684	107.62155	9.93309	0.1950703	2.7692843641311
(586291)	17.0	329.92438	40.01461	349.16558	5.18368	0.0919133	2.7709542641311
(586292)	17.2	51.43990	142.07759	158.92069	6.75696	0.0571490	2.7750599641311
(586293)	17.5	33.08461	279.91272	13.39927	7.88406	0.2602776	2.7961825641311
(586294)	17.3	350.14177	208.80501	124.21639	7.89805	0.0757411	2.8076469641312
(586295)	17.6	99.25705	98.09070	141.73317	9.40605	0.0998014	2.7764459641312
(586296)	18.1	43.19024	118.40944	158.20190	10.23583	0.1733019	2.4210463641312
(586297)	17.1	5.44596	194.42768	172.61367	9.67618	0.1130460	2.7703980641313

(586298)	17.5	38.46916	158.64440	153.20378	14.40196	0.2051552	2.7754919641313
(586299)	17.3	9.01160	331.50742	358.52060	13.37657	0.2112787	2.8019930641313
(586300)	16.9	44.73149	347.18042	300.05971	9.05274	0.0955928	2.7925120641314
(586301)	16.9	49.40453	161.20269	184.52801	9.65916	0.1032689	2.7354928641314
(586302)	17.0	18.50588	258.61842	104.40469	7.37680	0.0588998	2.7589269641315
(586303)	17.0	357.58527	32.75368	359.27480	5.98746	0.0547406	2.7482652641315
(586304)	17.3	294.98290	55.24186	42.85518	2.75181	0.0667808	2.7393547641315
(586305)	18.0	150.57071	245.53518	37.55345	3.00912	0.2784899	2.3231723641316
(586306)	18.4	328.51540	265.89318	53.59065	0.58432	0.1904390	2.4581239641316
(586307)	18.4	354.14963	12.88774	338.68084	6.79282	0.0952124	2.1453965641316
(586308)	17.6	27.57757	120.06482	181.40305	19.85497	0.3359108	2.7915088641317
(586309)	18.0	356.90497	171.86153	166.80581	4.54549	0.1608398	2.4320669641317
(586310)	18.4	341.63573	36.76412	330.73493	18.03066	0.1046232	1.9373384641317
(586311)	18.2	349.31758	189.59685	166.91908	6.32988	0.2027095	2.4255839641318
(586312)	17.9	165.45375	72.26581	255.18349	2.50773	0.1067735	2.6341735641318
(586313)	16.9	103.44326	296.74046	345.37619	8.56831	0.1114917	2.7384982641318
(586314)	17.9	277.23419	259.43245	32.69325	2.44806	0.1461334	2.5310167641319
(586315)	17.1	60.93716	303.82918	0.25034	5.07938	0.0369986	2.7796423641319
(586316)	17.3	44.30513	95.16048	166.50069	3.77302	0.1079939	2.8488092641319
(586317)	17.2	29.76905	353.20339	350.65072	5.45956	0.0266007	2.7746646641320
(586318)	18.6	20.18587	16.41093	294.30905	1.95406	0.1381051	2.1554260641320
(586319)	18.3	10.89242	331.08567	1.96871	19.60017	0.0736388	1.9309292641320
(586320)	17.1	221.23647	306.70626	9.67563	14.82014	0.1527491	2.5704183641321
(586321)	17.1	21.78818	60.11436	281.33475	7.96930	0.2312667	2.7844627641321
(586322)	17.4	335.73888	23.79679	16.73018	7.88564	0.2251624	2.8109367641321
(586323)	17.5	29.37699	185.75791	157.68592	4.27689	0.2841309	2.7781123641322
(586324)	17.8	192.56345	303.69153	73.21397	6.35294	0.2683635	2.5658666641322
(586325)	17.9	49.05347	242.71145	44.03523	4.73053	0.1437900	2.4110187641322
(586326)	18.2	309.50008	111.92156	296.22000	17.29332	0.1157750	1.9362859641323
(586327)	17.5	321.41488	43.14115	353.71321	2.99938	0.0972029	2.8195734641323
(586328)	17.3	137.88684	235.86160	127.42794	4.09120	0.1758632	2.6405601641323
(586329)	18.0	1.01650	329.21377	7.58707	18.98245	0.0805910	1.9445133641324
(586330)	18.0	317.50178	77.41821	339.44960	20.85201	0.3514131	2.4321562641324
(586331)	18.2	332.94489	56.67138	339.14294	2.63527	0.1975860	2.4262449641325
(586332)	17.9	283.82697	15.95803	15.12017	20.40355	0.0855200	1.9554185641325
(586333)	17.0	329.32195	110.55711	293.39409	7.32658	0.1503920	2.8072016641325
(586334)	17.6	277.05747	98.51737	339.44516	5.82378	0.1537969	2.4470993641326
(586335)	18.6	38.97511	89.37540	199.80141	21.15617	0.0805093	1.9479053641326
(586336)	16.4	323.01945	260.49308	142.21763	15.62469	0.1518182	2.8377763641327
(586337)	17.4	27.23118	74.89535	246.75285	13.09653	0.1828086	2.4172042641327
(586338)	17.2	1.57890	262.54662	94.32421	11.08308	0.3247070	2.8033970641328
(586339)	15.8	42.65024	213.59323	84.78944	12.53227	0.1916577	2.8068572641328
(586340)	17.7	3.94524	117.53547	237.09740	14.97323	0.2361765	2.4218621641329
(586341)	17.8	354.33841	149.24035	232.30713	9.10476	0.2577191	2.4175397641329
(586342)	16.7	346.55779	346.75094	68.37059	21.43302	0.1843963	2.7958950641330
(586343)	17.6	350.60792	50.53633	317.19354	8.99704	0.2594417	2.4364258641330
(586344)	17.7	349.66646	243.32707	146.05603	6.66626	0.1218043	2.4134385641331
(586345)	18.6	353.02568	290.93125	5.59480	4.83447	0.2011902	2.1793983641331
(586346)	18.2	3.94398	268.79134	81.23958	7.13991	0.2178314	2.4237197641331
(586347)	17.5	340.98934	329.07313	47.94822	14.96552	0.2418691	2.4437871641331
(586348)	16.7	13.27303	216.08637	142.44041	8.70980	0.2319762	2.8084666641332
(586349)	17.3	341.02746	194.65003	213.52665	10.42452	0.1803508	2.4211702641332
(586350)	17.0	17.53367	154.09712	224.76356	3.75575	0.0664736	2.8019625641332
(586351)	18.2	166.53639	245.36384	72.65426	6.19147	0.2343544	2.3127026641333
(586352)	17.4	41.33083	89.93869	250.20809	2.75826	0.1075474	2.8017264641333
(586353)	17.1	313.35530	354.45433	55.42768	10.35995	0.0864098	2.8602666641334
(586354)	17.8	297.51844	297.94484	134.32571	2.92686	0.1959105	2.4514944641334
(586355)	18.5	307.51512	124.06242	271.33624	0.85338	0.1757038	2.4630939641334
(586356)	18.4	111.90308	153.89570	63.07885	4.57837	0.1137948	2.1829475641334
(586357)	16.7	315.10185	183.31035	228.02342	4.55984	0.1282589	2.8585800641335
(586358)	17.8	336.26258	288.39209	89.72497	2.54314	0.2020993	2.4511802641335
(586359)	18.1	355.37976	307.56657	67.80727	15.22106	0.2017934	2.4335835641335
(586360)	17.2	347.65456	229.92708	186.76701	4.76640	0.1539671	2.8058791641336
(586361)	17.8	295.15195	36.17761	68.67025	10.11754	0.1754964	2.4261264641336
(586362)	16.7	286.83553	210.53219	232.47357	7.08051	0.1581339	2.8686408641337
(586363)	18.5	237.89200	153.41184	314.36611	4.43698	0.3312914	2.1950219641337
(586364)	18.6	275.08344	83.05882	358.25806	3.00918	0.2461642	2.4695369641338
(586365)	18.2	123.00019	23.13289	279.54404	4.58953	0.1440348	2.3886197641338
(586366)	18.1	237.50082	207.91124	246.43867	3.02408	0.0501710	2.5329553641338
(586367)	17.7	37.16008	290.27243	156.96466	8.10681	0.0956335	2.7682307641339
(586368)	17.9	227.52401	264.11469	266.59248	3.41284	0.1003335	2.1827741641339
(586369)	17.9	215.90950	98.14666	9.93160	4.11147	0.1107132	2.5319782641339
(586370)	17.9	13.86302	258.25915	73.59200	7.35767	0.0985118	2.5122941641340
(586371)	18.2	11.68024	259.53376	81.59441	6.91000	0.2378206	2.1911483641340
(586372)	17.1	100.53755	292.47765	317.90755	0.81851	0.0463430	2.9891913641340
(586373)	17.1	133.04431	260.47534	312.80924	8.56048	0.0991979	2.9734765641341
(586374)	16.4	77.75054	205.93731	60.77781	6.91477	0.2504433	2.5649835641341
(586375)	14.5	323.09440	244.07806	197.43640	7.09150	0.0857601	5.1368114641342
(586376)	16.4	125.17488	7.84258	176.78548	13.88782	0.2562992	3.1001732641342
(586377)	17.6	157.04669	109.44738	53.30913	4.32051	0.1487612	2.5996487641343
(586378)	17.9	82.83669	56.07835	179.95115	17.49244	0.1716019	2.6114561641343
(586379)	17.3	263.79909	312.34008	130.38473	7.49976	0.1563417	2.5490705641344
(586380)	17.4	176.44138	322.07868	191.67337	12.70083	0.2136236	2.5704473641344
(586381)	17.7	295.66287	140.94744	198.48177	3.04595	0.2346554	2.3284041641344
(586382)	16.0	68.55273	220.13877	46.72531	9.20695	0.1642377	3.0837772641345
(586383)	16.4	75.68285	89.03536	162.73982	26.74464	0.1466848	3.1098407641345
(586384)	18.7	84.05092	175.94214	23.43554	0.77913	0.1573856	2.2844381641346
(586385)	17.8	306.90107	150.70995	271.59784	5.52716	0.0979245	2.2157698641346
(586386)	14.2	26.13517	235.15429	116.75145	8.95937	0.1540848	5.2303492641346
(586387)	16.9	342.28189	181.12615	179.96438	10.37113	0.1169972	3.0480869641347
(586388)	18.3	133.18125	164.62527	18.63880	6.23346	0.1110745	2.2644866641347
(586389)	18.1	93.72732	230.65312	325.28985	2.76067	0.1130033	2.6348394641347
(586390)	17.6	29.57675	173.32613	106.14315	1.09252	0.0759775	2.6313973641347
(586391)	17.5	72.92996	184.35837	49.12059	5.88227	0.2252550	3.1298605641348
(586392)	13.9	152.67044	210.24526	24.94944	25.30756	0.0870552	5.1850361641348
(586393)	13.4	316.96290	246.02273	180.45303	29.32815	0.0654989	5.2378313641348
(586394)	16.7	20.84070	273.09943	70.89282	10.49510	0.1425032	3.0328476641349
(586395)	17.3	22.46966	233.52184	83.61437	11.53155	0.2431968	2.6114820641349
(586396)	16.6	295.56041	297.61340	121.37370	10.19315	0.1415414	3.0221065641350
(586397)	18.3	33.04688	219.52023	97.13688	7.67646	0.1464059	2.2523189641350
(586398)	16.5	75.06601	217.40160	20.69622	30.92572	0.2302480	2.6179093641350
(586399)	18.8	75.36539	97.38467	128.55128	4.81321	0.1716994	2.2925298641351
(586400)	17.3	134.62118	140.69832	99.05286	4.82837	0.0507994	2.5466759641351
(586401)	16.9	85.42659	224.80393	28.16521	9.93405	0.1650378	2.5796263641351

(586402)	17.1	115.40853	64.32750	160.96245	4.94840	0.0853114	3.0388638641352
(586403)	17.1	147.08386	216.04603	0.11651	9.68200	0.0475956	2.9902450641352
(586404)	18.1	210.21989	325.36292	188.75561	5.40254	0.1055270	2.5497113641352
(586405)	18.6	181.83684	131.78303	29.53636	5.71419	0.0922504	2.2457019641353
(586406)	16.7	153.75572	138.95608	67.28314	11.53031	0.0624328	3.0560596641353
(586407)	17.3	10.52185	127.70673	200.33978	12.57263	0.0612291	2.5927877641353
(586408)	17.1	66.41537	236.94366	20.42937	11.98936	0.1641515	2.6141711641354
(586409)	17.7	56.24043	252.14584	32.61907	5.80603	0.0922778	2.6059754641354
(586410)	13.5	240.03769	62.28042	81.80011	19.72512	0.0658179	5.2463656641355
(586411)	16.2	333.70043	357.84135	61.09862	11.90562	0.0993838	2.9926033641355
(586412)	17.4	61.39038	242.77427	54.78529	6.24548	0.1747956	2.5935207641355
(586413)	17.4	116.50525	157.65207	46.80306	11.46937	0.0637942	2.6238922641356
(586414)	16.5	144.74038	153.64667	63.76467	10.32354	0.0200718	3.0659890641356
(586415)	16.2	163.74547	150.59776	76.62980	10.95312	0.0493098	3.0147042641356
(586416)	16.7	234.79754	305.84495	181.52303	9.17436	0.0537622	3.0374560641357
(586417)	17.8	193.55625	113.85851	54.49186	15.44033	0.0304301	2.5662527641357
(586418)	16.7	36.88405	169.79336	157.03376	11.46027	0.2306289	3.1326118641357
(586419)	16.9	43.64577	153.38052	137.55686	11.36059	0.1583858	3.1604585641358
(586420)	16.4	61.76100	154.64285	105.31923	16.71946	0.0402239	3.1543733641358
(586421)	17.8	58.87908	123.78055	147.97296	6.48579	0.1376511	2.6339061641358
(586422)	18.4	67.87944	134.86330	116.63737	2.19281	0.1578874	2.2973998641359
(586423)	16.8	53.24951	44.24405	219.09913	26.34816	0.1365465	3.1779287641359
(586424)	17.0	3.90088	229.56091	95.50047	10.15618	0.0789480	3.1529045641359
(586425)	19.0	256.96994	269.53584	215.91737	20.06432	0.0658466	1.8143159641360
(586426)	16.3	341.19506	281.02788	141.82919	10.86134	0.0539362	3.0023679641360
(586427)	17.7	134.19587	192.17059	220.60594	4.14380	0.0485424	2.8076799641360
(586428)	17.7	340.25458	178.00730	194.98765	13.86205	0.0987415	2.6778542641361
(586429)	16.8	177.28941	84.40756	80.62159	19.66871	0.0841947	3.1114614641361
(586430)	18.4	118.96517	201.98613	90.71550	4.03791	0.2163904	2.2570961641361
(586431)	18.6	355.35771	11.87553	323.86539	18.62285	0.1063630	1.8674114641361
(586432)	17.9	347.89111	221.40451	158.09430	10.97519	0.2440769	2.3222742641362
(586433)	16.6	251.77522	158.10241	323.60352	9.43802	0.1390247	3.2078047641362
(586434)	16.7	91.42715	18.55098	336.09918	8.63244	0.0971194	3.0698706641362
(586435)	16.7	18.68516	2.66393	344.85348	17.09196	0.3144494	2.6739827641363
(586436)	17.4	97.58797	182.38709	155.52108	4.19313	0.0951052	2.6007591641363
(586437)	18.1	243.00115	79.40861	10.91631	7.59878	0.0783214	2.3592939641364
(586438)	18.9	216.36780	338.75668	143.60796	1.52070	0.1362272	2.3388146641364
(586439)	18.4	129.23996	14.41338	164.26012	4.90684	0.1282820	2.3598578641364
(586440)	18.4	189.09028	186.04539	326.35444	5.49556	0.1126918	2.3257262641364
(586441)	18.4	56.60506	293.86084	356.13028	2.20632	0.2121599	2.3154905641365
(586442)	17.9	302.57922	80.71253	298.38776	4.62363	0.2097310	2.3722010641365
(586443)	18.5	224.21850	156.29935	164.94366	4.38716	0.1895481	2.1739851641365
(586444)	17.6	30.78845	220.82348	73.37564	3.06784	0.2139711	2.3429199641366
(586445)	17.0	353.25689	331.85938	24.78473	4.67719	0.2589472	2.7065540641366
(586446)	17.5	322.83758	101.31747	287.46232	5.00012	0.0367057	2.7223991641366
(586447)	17.0	348.38341	152.72578	214.63381	8.86906	0.2729762	2.7163245641367
(586448)	18.7	349.32630	169.13652	194.53428	21.22002	0.1026496	1.8697435641367
(586449)	16.9	24.39374	187.13925	162.17634	13.40956	0.0892899	2.6865788641367
(586450)	17.1	40.44804	225.35295	180.87900	14.13148	0.1918610	2.6108400641368
(586451)	18.3	265.77555	91.85689	0.83928	19.42821	0.1340471	1.8746646641368
(586452)	17.0	357.90123	200.22062	159.29578	10.00544	0.1617761	2.7133291641369
(586453)	16.9	346.44101	300.57703	57.72412	12.22424	0.1991105	2.3520978641369
(586454)	16.6	358.74594	342.92866	14.51544	12.79794	0.1037077	2.7129375641370
(586455)	16.9	306.44035	133.05674	117.89735	6.95335	0.0874396	2.9442555641370
(586456)	17.4	349.33387	73.37628	286.90955	7.93735	0.0476362	2.7139255641370
(586457)	18.0	4.28803	80.44743	254.46998	1.60538	0.1824942	2.7264148641371
(586458)	18.2	51.76865	71.09744	200.30258	4.92322	0.1228885	2.3647555641371
(586459)	17.9	28.27743	54.59907	1.33003	3.40786	0.1551223	2.6377491641371
(586460)	18.4	292.32102	175.23636	252.26440	2.07098	0.2001387	2.3444019641371
(586461)	17.6	300.76655	263.60448	191.21693	11.04587	0.1403347	2.6712826641372
(586462)	17.5	40.00680	102.90315	203.06512	4.96811	0.0418829	2.7119311641372
(586463)	17.1	168.07324	141.94438	155.20494	3.00579	0.0411301	3.0745780641372
(586464)	17.6	143.33502	61.68086	140.48702	2.77398	0.0148249	2.7258960641373
(586465)	17.1	79.41020	237.70390	104.98605	3.15752	0.0742689	3.1636948641373
(586466)	18.4	296.28780	11.29795	53.19462	4.79465	0.1599433	2.3485794641374
(586467)	17.8	323.76155	237.52511	126.39572	4.14164	0.1942416	2.7558034641374
(586468)	17.9	347.56164	207.23119	142.75278	6.14507	0.0645282	2.7467756641374
(586469)	17.1	30.89597	192.27837	109.03885	6.82940	0.0502495	2.7531474641374
(586470)	17.4	34.95054	147.31493	163.94990	13.35407	0.2614394	2.7111617641375
(586471)	17.2	314.06765	297.28874	119.28964	9.63309	0.1599885	2.7300208641375
(586472)	16.7	182.94010	66.63585	80.10631	14.17291	0.1732251	2.8069237641375
(586473)	17.4	197.96122	85.94403	111.92712	10.83589	0.1686520	2.3250657641376
(586474)	17.1	73.17647	116.32983	151.15425	14.05783	0.1845990	2.7425523641377
(586475)	17.3	23.30160	212.31985	100.06138	13.03003	0.1841112	2.7453605641377
(586476)	15.5	287.75457	140.21866	300.80606	14.26294	0.1260044	3.2566975641377
(586477)	17.4	46.42688	240.01705	31.53052	4.43594	0.0637222	2.7549358641378
(586478)	18.2	136.76110	56.27539	139.53637	7.25731	0.0944568	2.3699553641378
(586479)	17.2	110.12452	199.80623	354.25061	3.46154	0.0353171	2.7742919641379
(586480)	16.4	18.95839	303.99501	41.62616	10.97528	0.1410877	2.6961582641379
(586481)	17.1	277.84645	196.36888	220.26755	3.53682	0.0610533	2.7632171641379
(586482)	17.4	298.37721	6.09545	9.88006	5.70513	0.0611175	2.7938531641380
(586483)	17.3	332.75704	344.18235	62.70330	6.10414	0.0247335	2.6745576641380
(586484)	18.4	174.91161	296.18083	216.66838	4.35256	0.1826137	2.3761594641381
(586485)	17.7	214.79048	157.59532	334.73208	6.57461	0.0635035	2.7221388641381
(586486)	17.2	47.27986	54.77721	251.09568	10.66496	0.0844282	2.6991480641381
(586487)	18.6	253.44454	105.32610	350.11660	3.85405	0.2173609	2.3648148641382
(586488)	18.5	206.52194	296.12003	187.60658	6.48680	0.0770408	2.3789572641382
(586489)	17.2	272.59563	71.45361	17.15347	9.24188	0.1534613	2.7421792641382
(586490)	17.5	323.45465	232.45704	166.36463	5.26115	0.0752053	2.6843606641382
(586491)	16.6	88.82900	318.14930	319.94380	6.10802	0.0920221	3.2136793641383
(586492)	18.1	281.76141	314.08917	204.22574	9.45891	0.0956306	2.2611686641383
(586493)	17.6	306.45145	61.96836	293.94116	4.52107	0.0107725	2.7696520641383
(586494)	16.8	224.71361	263.46320	324.01819	2.45026	0.1438087	3.0916828641383
(586495)	18.9	9.87861	55.30583	331.37902	8.03699	0.2788992	2.3019565641384
(586496)	17.4	273.48520	221.39840	229.14673	12.68952	0.1550246	2.7458454641384
(586497)	18.9	242.00658	57.36500	35.81093	1.51154	0.1463431	2.3706293641384
(586498)	18.8	163.83535	206.47940	142.05908	1.29069	0.1590531	2.2116126641385
(586499)	17.8	40.26172	321.45682	337.10909	4.11649	0.1012329	2.7184934641385
(586500)	18.1	10.90844	163.68089	168.22722	5.58728	0.1255206	2.7289089641385
(586501)	16.5	185.95895	58.99209	271.23215	7.97504	0.1692321	3.0092988641385
(586502)	18.1	276.11424	214.48738	231.41674	6.05284	0.1887497	2.3556388641386
(586503)	17.8	47.05018	324.32724	327.10608	6.25608	0.1083077	2.3457008641386
(586504)	17.5	47.74603	305.69075	20.86706	12.82936	0.1729964	2.6843134641386
(586505)	18.7	265.31663	60.27839	19.43661	1.58533	0.1543738	2.3784262641387

(586506)	17.2	53.29696	5.91428	329.68771	10.80507	0.0641916	2.6834173641387
(586507)	17.5	9.00124	104.36930	227.79902	3.78253	0.0800469	2.7463201641387
(586508)	19.0	299.59973	18.90401	8.72326	22.00184	0.0801066	1.8791259641387
(586509)	17.6	211.32143	171.56724	202.25486	8.76872	0.0870463	2.9063956641388
(586510)	18.7	331.55313	342.44888	25.30277	7.24603	0.1726630	2.3579020641388
(586511)	17.3	348.31629	336.33786	84.13289	1.96687	0.1705633	3.2214129641388
(586512)	17.1	259.07518	13.80976	95.80295	6.94014	0.0962282	2.7347974641388
(586513)	17.3	343.77937	333.55064	44.99769	11.74161	0.2990947	2.7254546641389
(586514)	16.4	80.22820	28.36523	273.11979	6.46511	0.0977809	2.7048536641389
(586515)	17.3	336.08799	315.11675	72.60336	8.31314	0.2619083	2.7309283641390
(586516)	16.6	346.50636	105.81994	283.18929	8.21488	0.1419545	2.7139098641390
(586517)	17.5	319.34892	1.81698	21.03096	5.79145	0.0185857	2.7518063641391
(586518)	17.5	40.91209	179.56226	159.13711	2.87375	0.1825951	2.6883178641391
(586519)	17.6	27.56292	106.95121	211.19612	8.39302	0.2020010	2.7229508641391
(586520)	16.8	353.38986	257.58286	110.62192	5.05998	0.1327502	2.7216734641392
(586521)	16.3	34.82249	266.73527	76.74296	14.36526	0.1819306	2.6979793641392
(586522)	16.9	181.05849	244.01983	249.31436	9.28517	0.1646737	2.8201419641393
(586523)	17.6	79.13864	326.13785	339.59626	6.05458	0.1810292	2.6497466641393
(586524)	17.4	255.00776	102.15453	1.79534	15.13048	0.1291591	2.7243824641393
(586525)	18.0	322.33273	313.05591	128.33445	2.38757	0.1664062	2.3141815641394
(586526)	17.9	95.04665	237.87550	89.22733	4.70890	0.1669872	2.6296590641394
(586527)	18.1	209.58299	42.58395	90.00181	5.93455	0.1546521	2.3758528641394
(586528)	17.6	272.67075	120.57521	15.77048	22.14296	0.2480091	2.3147527641395
(586529)	17.8	276.12471	320.46171	92.40720	0.80546	0.0637961	2.7618220641395
(586530)	18.2	331.56108	258.17690	115.26271	7.40958	0.1174020	2.7502825641395
(586531)	17.6	354.08167	157.76844	169.18741	12.16083	0.1784471	2.7608658641395
(586532)	17.2	184.52477	352.59545	124.12709	5.35968	0.0154731	2.8038622641396
(586533)	17.1	244.11841	82.68833	27.13118	14.60989	0.1492693	2.7809440641396
(586534)	18.7	267.42848	322.07687	128.25821	3.37095	0.1284877	2.3544627641396
(586535)	16.3	233.41089	269.46767	238.17236	13.48140	0.1356906	2.7294472641397
(586536)	17.3	24.58958	30.13397	278.74401	3.41692	0.0584344	2.7775774641397
(586537)	17.4	341.96385	257.60434	113.63537	2.46381	0.1102684	2.7271807641398
(586538)	16.9	5.26239	260.51393	61.04963	13.81634	0.1997913	2.7499120641398
(586539)	17.6	258.42268	215.52011	234.07437	12.72813	0.1518617	2.7912162641398
(586540)	17.2	242.02105	62.32809	43.72074	13.03121	0.1797173	2.7796185641399
(586541)	17.4	336.65622	100.81303	252.79882	4.53460	0.0616147	2.7641687641399
(586542)	18.4	13.15251	342.90337	353.71171	1.35724	0.1920466	2.3487732641399
(586543)	17.5	289.55486	209.91898	202.13332	3.83710	0.0629599	2.7696893641399
(586544)	18.3	240.17393	56.82143	6.51623	2.34775	0.1667926	2.4172144641400
(586545)	18.1	298.31457	142.07218	295.41817	2.43904	0.1743711	2.7372205641400
(586546)	17.4	345.76435	248.57560	102.00459	5.92961	0.1238184	2.7540976641400
(586547)	16.1	342.86044	105.27706	285.20708	17.39075	0.1364233	3.2253713641401
(586548)	18.4	26.68978	203.64221	97.28360	3.07903	0.2376198	2.3492554641401
(586549)	17.6	290.90642	276.20308	123.47667	4.46040	0.0967138	2.7762435641401
(586550)	17.3	208.93722	62.86235	325.57675	4.64782	0.1335722	2.8945802641401
(586551)	17.9	29.50286	165.94227	131.65259	4.85547	0.1628333	2.7458529641402
(586552)	17.8	241.98798	122.90861	306.60152	2.56352	0.0798241	2.8005864641402
(586553)	18.1	249.64399	327.75511	141.78485	8.90905	0.1812503	2.7641253641402
(586554)	16.6	57.10086	31.01199	300.35501	8.72213	0.0840537	3.1645335641402
(586555)	18.0	258.02580	138.13653	299.90614	4.78535	0.2594528	2.7930393641403
(586556)	17.2	115.03343	144.96681	97.14224	4.97705	0.0242138	2.7509967641403
(586557)	17.8	36.43039	315.71512	353.54051	7.29844	0.1227857	2.3312112641403
(586558)	17.9	352.81966	325.16218	45.36387	7.69081	0.1485430	2.3394700641403
(586559)	18.1	29.48231	62.39240	10.61106	1.84680	0.2026749	2.6183493641404
(586560)	17.9	278.46864	203.49850	214.85592	5.51707	0.0348885	2.7792973641404
(586561)	17.6	12.22650	170.53909	153.29326	5.56786	0.1200254	2.7363795641404
(586562)	17.4	303.40592	343.09256	64.64268	9.89272	0.2011821	2.7510047641405
(586563)	17.7	356.68593	306.92744	42.47223	6.34359	0.2271836	2.3586825641405
(586564)	17.8	342.20073	239.04018	120.60285	2.40738	0.2080034	2.3630079641405
(586565)	18.1	8.43283	153.85681	265.50894	4.92762	0.1511421	2.3059466641405
(586566)	16.9	312.00126	246.65961	77.02684	3.17341	0.0628369	2.8684410641406
(586567)	19.1	160.27364	305.01061	12.94439	4.77813	0.2303443	2.5633999641406
(586568)	17.8	15.94153	254.35359	66.12164	1.01118	0.0714928	2.7611499641407
(586569)	18.5	186.60419	217.70519	27.56204	1.34474	0.1917828	2.2981053641407
(586570)	17.0	193.17991	111.80467	35.21861	13.70141	0.1659998	2.8067638641407
(586571)	18.0	334.30138	262.45009	106.63543	7.36106	0.1551541	2.3767495641407
(586572)	17.3	318.72327	51.49304	314.16905	5.75885	0.1039173	2.7860642641408
(586573)	17.1	297.55067	356.25311	73.38109	14.25983	0.0897967	2.7646506641408
(586574)	17.4	131.92625	91.96490	83.40003	11.37407	0.1149023	2.9046641641408
(586575)	18.3	70.60817	312.54212	284.55816	1.13739	0.1683757	2.4186294641409
(586576)	17.6	330.76601	113.17396	256.02293	4.85277	0.0665534	2.7843864641409
(586577)	18.3	45.70581	185.68181	87.33387	4.81272	0.1729815	2.4161613641409
(586578)	17.1	220.78021	273.14400	244.01355	11.12043	0.2083231	2.7544685641409
(586579)	18.2	311.37095	317.65516	91.96011	4.80931	0.1796227	2.3689227641409
(586580)	17.7	140.14563	214.87427	60.90741	4.85774	0.0342126	2.6717218641410
(586581)	18.5	343.32375	82.62910	275.48890	6.36681	0.1072531	2.3763630641410
(586582)	17.4	118.20284	135.01789	90.03723	3.44188	0.0210650	2.7989998641410
(586583)	18.8	219.00292	226.84875	244.31430	3.93360	0.1765751	2.4189198641411
(586584)	18.0	357.87225	105.70535	245.01389	4.91182	0.2354617	2.3613054641411
(586585)	16.9	217.90572	84.73577	75.88066	16.71797	0.2115094	2.7759614641411
(586586)	18.2	42.43927	335.08584	345.75812	6.25062	0.1905681	2.3441235641411
(586587)	17.1	230.15191	229.84915	262.62383	14.27011	0.1760199	2.7939562641412
(586588)	16.7	170.74668	94.34634	236.13802	10.37322	0.1067996	3.0851457641412
(586589)	17.1	225.12178	262.31659	245.58595	6.57071	0.1650328	2.7723561641412
(586590)	16.8	334.70186	286.82122	81.93585	16.66414	0.2533112	2.7666376641413
(586591)	17.2	345.64280	36.95326	326.63916	3.11216	0.1136176	2.7778031641413
(586592)	17.0	345.46286	294.94131	100.00827	7.32541	0.0649242	2.7854112641413
(586593)	18.1	290.32513	357.76371	66.54844	3.31089	0.1744203	2.3943896641414
(586594)	17.3	344.30024	308.03561	82.39237	5.07348	0.1069900	2.7526158641414
(586595)	17.4	259.76006	9.67837	74.47975	5.36638	0.0371024	2.8032347641414
(586596)	17.1	119.39123	258.12684	69.30136	9.81491	0.0754954	2.6592787641415
(586597)	17.9	254.96220	109.98189	12.17729	6.82649	0.0557195	2.3601284641415
(586598)	17.5	217.88633	36.02785	95.04732	5.84518	0.1225671	2.7995295641415
(586599)	18.0	54.45582	194.04848	66.85283	6.46200	0.1899766	2.4111548641415
(586600)	18.1	219.90832	160.87124	297.67407	4.86421	0.1342718	2.4429746641416
(586601)	18.6	319.34580	298.80851	97.10682	2.38326	0.1862028	2.3959386641416
(586602)	17.6	316.84039	127.90160	285.07200	4.58687	0.1595687	2.7977993641416
(586603)	18.6	96.11994	73.62175	126.94671	4.22870	0.0290964	2.1666259641416
(586604)	16.9	313.18425	296.98223	118.92649	15.78609	0.1327430	2.8558608641417
(586605)	17.2	76.91477	316.71736	311.82581	9.84504	0.1183280	2.8677944641417
(586606)	17.1	359.94507	316.38635	54.70309	7.35321	0.0719839	2.7957997641417
(586607)	17.6	240.17837	159.00176	11.14368	3.74264	0.1316727	2.7695720641418
(586608)	17.9	191.25468	206.49457	318.69633	4.30732	0.1121349	2.4340064641418
(586609)	18.1	240.81696	33.49542	86.76313	3.37401	0.1685490	2.4185232641418

(586610)	18.3	212.19802	157.73445	347.81229	1.04296	0.1261640	2.4296143641419
(586611)	18.3	240.03431	227.27318	251.13395	0.95993	0.1235588	2.4226909641419
(586612)	17.6	173.79547	349.56969	83.29938	3.04726	0.2025873	2.9835809641419
(586613)	18.5	266.87097	110.81500	333.11319	19.00304	0.1067145	1.9080726641419
(586614)	18.4	283.01120	64.12924	12.99168	17.93337	0.1137682	1.9056298641420
(586615)	18.6	359.87592	307.69108	42.39154	4.85375	0.1811749	2.1556962641420
(586616)	18.6	207.84841	135.28945	78.45816	4.12133	0.1348749	2.3736261641420
(586617)	17.7	246.19485	137.47146	339.26264	8.73320	0.0843526	2.8495130641420
(586618)	17.1	308.56271	310.01381	122.35995	5.93367	0.1833276	2.8065378641421
(586619)	17.2	191.84800	81.61204	126.26844	0.72475	0.1360422	2.8325680641421
(586620)	18.2	163.76432	170.44930	0.95077	20.00566	0.0542173	1.9328071641422
(586621)	17.6	159.38423	261.92921	134.92193	1.65370	0.1091241	2.6155788641422
(586622)	17.3	322.77149	356.82178	354.72532	9.00477	0.0604975	2.9706726641423
(586623)	17.5	177.12483	312.84053	179.91094	10.26497	0.0445179	2.9745303641423
(586624)	16.7	169.52438	85.48545	82.47273	18.03780	0.1283676	2.9193588641423
(586625)	17.6	63.55177	352.87403	235.12989	1.74535	0.1612682	3.0354489641423
(586626)	18.2	137.48786	216.71415	11.46909	20.12929	0.0510395	1.9164815641424
(586627)	17.1	254.37842	155.64831	309.39542	0.90406	0.0259628	2.9001918641424
(586628)	18.7	208.46185	285.20005	200.02278	2.14157	0.1306545	2.4697065641424
(586629)	18.0	193.69851	294.35390	65.76969	5.15232	0.0676859	2.2694486641425
(586630)	16.9	307.01076	93.63360	315.30062	8.89516	0.0884611	2.8778574641425
(586631)	17.5	18.15128	235.29679	83.16079	8.09861	0.4248342	2.5535028641425
(586632)	17.5	317.21188	33.14811	12.77488	5.70963	0.0566012	2.8862040641426
(586633)	17.1	72.92045	105.98674	127.38699	12.48295	0.0418409	3.0295290641426
(586634)	17.0	260.16430	302.41462	147.56884	10.19315	0.0729601	2.8952339641426
(586635)	17.4	36.52565	263.72680	358.55861	2.84616	0.1938961	3.0518837641426
(586636)	17.3	231.07024	75.24523	54.70512	1.04977	0.1570571	2.9086847641427
(586637)	18.5	178.32212	126.98510	27.30306	5.40855	0.0559062	2.1742279641427
(586638)	18.6	8.49083	244.94702	105.27762	5.89354	0.0720806	2.1675364641427
(586639)	18.1	101.45670	1.14016	204.84976	7.87083	0.0500886	2.5337138641427
(586640)	19.0	132.46045	52.82006	140.49692	4.06998	0.0623419	2.1849413641428
(586641)	18.8	99.28805	136.22935	105.49764	1.54525	0.1235840	2.1725579641428
(586642)	14.3	105.80827	62.26894	215.58285	4.54113	0.0908772	5.1856194641428
(586643)	18.4	81.32446	189.36862	46.31161	3.81199	0.1185169	2.1957362641429
(586644)	14.1	303.38727	221.70870	228.84047	13.95151	0.0155658	5.1871297641429
(586645)	17.1	221.48018	31.23012	212.13178	3.77697	0.0536453	2.8050217641429
(586646)	17.4	253.31587	35.99707	26.91304	4.26147	0.0752533	2.9969032641430
(586647)	16.9	251.31226	54.87787	62.82041	7.79116	0.0847700	2.9263163641430
(586648)	18.3	134.23784	46.39287	161.51140	3.55936	0.0809846	2.1685666641431
(586649)	17.4	162.62533	326.58672	295.23165	0.86490	0.0253520	2.8330751641431
(586650)	18.8	47.49459	200.94732	55.56564	5.11160	0.2372693	2.5639988641431
(586651)	18.6	178.46323	269.63265	225.33632	4.37193	0.0823929	2.1974532641431
(586652)	17.7	197.50535	71.14834	74.43368	7.17397	0.0850211	2.4682531641432
(586653)	17.7	142.43226	313.51590	205.54004	7.08246	0.1881978	3.0108102641432
(586654)	14.5	109.55379	53.37922	230.59471	10.27266	0.0799101	5.1630789641432
(586655)	17.2	2.21644	118.68338	201.74269	15.69198	0.0599675	3.0029834641433
(586656)	17.8	119.43215	321.61791	236.00273	10.54860	0.0814487	2.5353954641433
(586657)	14.3	359.98975	248.41546	148.69451	6.91698	0.0789847	5.1947030641433
(586658)	18.8	144.89981	294.42040	239.54386	2.94547	0.1462714	2.1899649641434
(586659)	18.4	244.58680	261.66354	218.10888	21.00479	0.0814567	1.9315906641434
(586660)	17.0	80.92386	72.55310	162.63018	12.07395	0.0279706	3.0649562641434
(586661)	17.7	47.92456	143.61698	147.45736	6.76480	0.1051602	2.5322615641434
(586662)	13.7	36.19820	255.05802	117.06950	18.64928	0.0866858	5.2551661641435
(586663)	18.0	27.44781	145.01591	168.59653	11.65207	0.2319869	2.5471458641435
(586664)	13.7	234.37734	32.35235	120.88329	17.82709	0.0244055	5.2733967641436
(586665)	16.7	45.62560	65.54779	255.71855	10.42539	0.0820561	3.0567738641436
(586666)	17.9	137.52122	324.32488	204.58433	17.11390	0.1051776	2.5562524641436
(586667)	15.8	41.77264	225.00334	76.88110	18.12266	0.2065072	3.1145670641437
(586668)	17.9	292.57000	322.39463	285.08208	3.73845	0.2023708	2.3455584641437
(586669)	17.3	34.08128	197.45822	121.64193	12.54832	0.1092088	2.5695589641437
(586670)	18.7	151.10987	132.15839	290.68386	3.33516	0.1776581	2.3462218641438
(586671)	17.8	39.95115	53.20164	255.95150	2.92303	0.0820805	2.5739927641438
(586672)	17.4	352.71099	287.13565	109.37108	2.67387	0.2467687	2.5617996641438
(586673)	16.9	20.04049	4.88765	327.33665	8.77601	0.1357468	2.5757727641439
(586674)	16.8	6.39195	119.94265	211.60723	8.32631	0.1814903	3.1672404641439
(586675)	17.4	35.39094	286.68341	8.22353	1.46475	0.1803529	2.5938835641439
(586676)	16.6	258.64102	318.72151	141.89975	13.03470	0.0711322	3.1424600641440
(586677)	16.4	26.14054	80.76280	246.92753	18.32243	0.2372269	3.1209756641440
(586678)	17.3	249.90164	314.60581	148.60643	1.19820	0.1343234	3.0945432641441
(586679)	16.7	29.81292	307.69892	42.35472	14.12501	0.2143801	2.5541056641441
(586680)	16.4	198.59456	195.12287	291.38536	8.01659	0.0276352	3.1733698641441
(586681)	16.8	329.10858	214.39517	183.35192	0.36426	0.1755322	3.1361769641442
(586682)	17.4	318.38434	270.78990	160.25551	12.40687	0.1410937	2.5546206641442
(586683)	18.2	358.56637	79.68311	268.10655	6.90165	0.1574842	2.2369167641442
(586684)	16.8	317.11053	66.13341	333.21935	9.35708	0.0706370	3.1317253641442
(586685)	16.6	2.28648	172.11685	142.06674	10.28563	0.0861802	3.1906214641443
(586686)	18.4	336.15765	86.15544	281.40991	6.09104	0.1473859	2.2429215641443
(586687)	17.2	341.57066	190.67692	189.12128	14.02024	0.1961365	3.1593355641443
(586688)	18.0	359.57084	199.90887	160.37258	10.44646	0.2145358	2.5882914641443
(586689)	16.6	100.88148	312.95545	286.40402	7.86159	0.0454256	3.1680457641444
(586690)	17.5	24.50454	313.05747	357.48441	13.14069	0.2593759	2.5950609641444
(586691)	16.1	37.50002	234.97814	109.90948	11.44990	0.1171377	3.0891793641444
(586692)	16.9	8.01878	311.23061	357.65477	31.83313	0.2857905	2.6168867641445
(586693)	16.9	75.28734	346.71038	347.07488	10.40963	0.0878078	3.0373953641445
(586694)	17.7	28.69352	21.61755	298.67061	1.75354	0.2086985	2.5910358641445
(586695)	17.3	14.41722	70.15147	241.65662	2.07162	0.2373850	2.6116689641446
(586696)	18.2	237.42431	322.79138	327.28283	3.73789	0.1871821	2.3908178641446
(586697)	17.9	74.30765	265.54650	355.95883	3.98748	0.1323298	2.5975023641447
(586698)	17.4	333.36157	103.99663	274.06819	10.59415	0.2959273	2.6189348641447
(586699)	16.8	68.21198	108.84781	174.81790	10.61121	0.0460595	3.1363684641447
(586700)	18.2	106.67604	80.35241	204.50373	0.57624	0.0755685	2.5437655641448
(586701)	17.1	62.51760	180.16403	120.18483	2.49485	0.1727859	3.1000962641448
(586702)	17.7	51.58077	144.21406	144.29616	5.53359	0.1115702	2.5990440641448
(586703)	16.2	29.10692	121.49127	237.93225	10.77024	0.1078454	3.0831873641449
(586704)	15.6	2.88183	134.04139	234.63417	15.62518	0.2361963	3.1448031641449
(586705)	17.4	338.03220	277.98322	89.63435	2.13512	0.2359696	2.6216975641450
(586706)	16.8	357.20652	141.36872	201.96001	8.30131	0.2293095	3.1768107641450
(586707)	16.8	56.28578	284.02114	325.20185	7.07135	0.0877161	2.6360682641451
(586708)	17.3	12.05509	288.53624	157.35980	7.58951	0.0401559	2.4748433641451
(586709)	17.2	1.24989	41.50737	326.37631	8.95048	0.1218646	3.1226512641452
(586710)	17.3	21.86814	87.48745	241.61393	6.43387	0.2202946	2.5833515641452
(586711)	16.7	39.07526	83.54834	237.43740	7.59404	0.3145089	3.1028901641452
(586712)	17.5	278.98166	275.01632	134.13518	3.65932	0.1157499	2.6486468641453
(586713)	16.2	26.76080	137.60611	203.30907	15.81150	0.2109220	3.1277848641453

(586714)	16.5	14.99672	127.30939	197.93358	21.97865	0.2035595	3.1556840641454
(586715)	16.4	238.32866	120.77241	352.55693	26.21389	0.1233413	3.1870819641454
(586716)	17.8	49.03965	56.80509	244.31736	1.03464	0.0864983	2.5999286641455
(586717)	17.4	31.06673	323.10076	24.81751	0.59808	0.1454954	3.1051906641455
(586718)	17.7	37.81609	104.95382	199.37451	28.21231	0.3476392	2.5876270641455
(586719)	17.6	353.03584	198.31683	182.10046	10.99517	0.1340787	2.5909237641456
(586720)	18.2	265.11828	244.31822	195.66125	2.71932	0.0626797	2.6238715641456
(586721)	16.9	58.84536	307.20598	10.42639	1.35871	0.0264742	3.1072852641456
(586722)	18.0	333.42235	182.82901	163.65003	3.37304	0.1191993	2.6425713641456
(586723)	17.4	86.89806	298.37314	356.82408	15.27106	0.0213980	2.5624912641457
(586724)	17.7	1.85664	334.48801	359.81252	2.10496	0.1910118	2.6175038641457
(586725)	17.0	350.84310	198.87867	166.07802	2.17097	0.0956775	3.1642115641457
(586726)	17.5	6.44116	244.40255	93.20593	5.82515	0.2100816	2.6082957641458
(586727)	16.7	325.11234	82.49068	347.37748	11.43644	0.1850321	3.1192716641458
(586728)	16.8	317.74793	227.65144	175.74746	15.97325	0.0708969	3.1619063641458
(586729)	17.9	330.81591	328.81917	55.03451	2.28470	0.1420202	2.6142424641458
(586730)	17.7	344.20456	165.22589	210.78292	11.14988	0.1963158	2.6141599641459
(586731)	17.1	102.71419	214.68680	6.77292	13.53982	0.1058545	2.6364382641459
(586732)	16.0	271.76794	108.21640	12.43482	11.94915	0.0973573	3.1427887641459
(586733)	17.9	3.86468	311.90660	28.00668	2.71552	0.1486883	2.6283481641460
(586734)	16.3	140.30288	198.22787	351.87479	18.71474	0.0735346	3.1953890641460
(586735)	16.4	322.87051	20.88485	2.45801	10.10015	0.1033045	3.1733121641460
(586736)	16.6	217.04770	158.83240	33.57375	12.03151	0.0845407	3.0344777641461
(586737)	16.6	351.07545	253.88637	144.85743	10.21979	0.1355282	3.1047638641461
(586738)	17.0	44.30842	293.30644	5.25058	0.56987	0.1680208	3.1398553641462
(586739)	16.8	135.79528	238.32844	335.08417	12.16084	0.0554890	3.1457769641462
(586740)	16.7	63.76838	252.09135	22.97254	26.83089	0.2711838	2.6306342641462
(586741)	16.1	46.24807	228.59792	49.67785	22.77941	0.1672977	3.1464257641463
(586742)	16.9	36.50869	107.40013	184.07901	8.22032	0.0412607	3.2086533641463
(586743)	16.8	273.72002	102.81460	353.17084	10.35538	0.0457614	3.1245009641463
(586744)	16.8	248.53154	298.31588	143.81505	5.57200	0.1177760	3.2440519641463
(586745)	17.5	61.91012	347.49183	41.45655	1.52078	0.2019683	3.0219658641464
(586746)	18.0	279.71804	228.83008	30.34055	2.56913	0.1754288	2.3798759641464
(586747)	16.6	341.22357	218.15336	191.31928	9.89041	0.0937709	3.0917270641464
(586748)	16.3	25.18109	340.66724	6.53212	12.23731	0.1923167	3.1427417641465
(586749)	17.6	23.89561	33.13215	289.43708	7.54869	0.1729083	2.2557396641465
(586750)	17.4	321.41107	161.90432	233.09382	6.71674	0.2448179	2.6331644641465
(586751)	16.8	291.30739	74.02293	16.57438	16.25651	0.2172007	3.1831674641466
(586752)	16.8	193.11147	197.34737	344.39325	10.65731	0.0464904	3.1127283641466
(586753)	17.7	358.87246	265.37177	124.88914	7.79359	0.1999897	2.5740965641466
(586754)	18.8	106.05047	263.63696	329.43017	17.80171	0.0625787	1.9828941641467
(586755)	17.0	18.03315	343.13625	9.72633	12.29160	0.1339458	3.1483259641467
(586756)	17.4	108.34385	35.69076	358.90555	11.51864	0.0465554	2.8963978641467
(586757)	17.0	82.68042	303.99541	316.44353	12.15464	0.2200621	3.1138484641467
(586758)	17.8	342.64649	155.73175	206.61807	9.69080	0.2474141	2.6277066641468
(586759)	16.4	57.23981	293.78625	32.64987	6.06143	0.1438749	3.1327671641468
(586760)	16.8	303.22860	251.21358	202.12965	29.34148	0.2947117	2.6033631641468
(586761)	16.9	352.78961	337.21660	32.61583	14.87678	0.3252000	2.6104247641469
(586762)	16.7	322.38850	53.83432	359.20113	11.25247	0.0925546	3.1555138641469
(586763)	16.9	347.63235	311.11631	55.18765	12.25109	0.1953887	2.6288397641469
(586764)	18.2	19.39147	116.27823	197.87125	13.29969	0.1625012	2.6301934641470
(586765)	17.8	4.26462	337.07213	3.76240	3.50009	0.1270218	2.6344530641470
(586766)	16.4	83.49881	237.22366	23.73245	9.20234	0.0343773	3.1917993641470
(586767)	17.1	354.95531	98.46338	303.95735	2.85212	0.0938899	3.1203637641471
(586768)	16.3	353.84011	26.00583	18.60456	9.53940	0.0184533	3.1071560641471
(586769)	18.0	27.38003	105.41954	192.73673	9.81783	0.1921892	2.6365651641471
(586770)	18.1	313.68993	216.97201	191.96849	1.76306	0.2040694	2.6410590641472
(586771)	16.6	303.95459	214.80999	199.69809	10.37524	0.0501716	3.1756553641472
(586772)	17.4	332.77137	161.86198	262.07925	2.91856	0.1704011	2.5963978641472
(586773)	18.2	344.46410	304.35849	59.88373	3.12762	0.2238852	2.6321459641472
(586774)	17.8	1.45159	147.22914	190.78260	11.04117	0.1375714	2.6296888641473
(586775)	17.6	34.25361	115.77437	188.73996	15.76565	0.1899706	2.6164621641473
(586776)	17.3	11.40681	319.25951	11.83407	14.26671	0.1156666	2.6242471641473
(586777)	16.1	296.43228	251.42344	220.13676	12.69922	0.0881207	3.1143855641474
(586778)	16.9	55.64542	352.79461	25.58243	9.67814	0.1455361	3.0608079641474
(586779)	16.5	338.47872	162.15818	210.95495	7.33498	0.1466060	3.2232814641474
(586780)	17.7	322.91451	168.68168	225.83199	8.69337	0.1261449	2.6377795641475
(586781)	16.1	6.36376	275.74646	83.37278	14.29864	0.2983877	3.1637954641475
(586782)	17.9	6.90263	302.64494	16.37876	13.36835	0.2921933	2.6263812641475
(586783)	17.7	327.20743	333.39621	42.94499	5.08394	0.0646628	2.6456444641476
(586784)	16.4	349.92202	178.67657	229.35557	8.78356	0.0329815	3.1505334641476
(586785)	17.6	341.45580	8.59711	30.68251	3.51650	0.1013571	2.6033677641476
(586786)	16.6	285.67527	54.17529	16.68220	8.92284	0.1382724	3.2279871641476
(586787)	17.4	342.02408	91.36974	242.29111	2.30157	0.1780735	2.6520133641477
(586788)	16.7	10.31521	351.34176	359.97483	10.19579	0.0841416	3.1590436641477
(586789)	16.6	311.21001	87.98067	10.42317	16.49079	0.1926539	3.1047043641477
(586790)	16.7	20.99784	174.17602	184.76906	17.73414	0.1530281	3.1237774641478
(586791)	17.0	298.83401	295.03263	123.60347	1.86141	0.1298002	3.2139744641478
(586792)	16.4	319.08245	246.12862	204.25054	5.35812	0.0733905	3.1134118641478
(586793)	17.5	234.68611	86.61810	29.45304	8.12633	0.1212252	2.6546854641479
(586794)	16.4	210.94766	119.60853	34.76966	4.92410	0.0499724	3.1858835641479
(586795)	18.8	295.74137	354.98937	42.70947	2.30545	0.1311879	2.2929087641479
(586796)	18.0	1.38313	157.23330	201.44904	4.55904	0.1410783	2.5950955641480
(586797)	16.8	245.65705	164.76851	333.26549	6.25435	0.1114608	3.0996889641480
(586798)	16.9	262.34734	173.08879	266.59165	11.88993	0.1245542	2.6591132641480
(586799)	18.0	1.68241	179.70369	150.41538	2.66032	0.0856948	2.6536543641481
(586800)	18.3	156.88778	275.40089	239.61065	3.05902	0.1751149	2.3214208641481
(586801)	17.1	32.64708	121.73666	184.32839	9.23078	0.0831377	3.2041047641481
(586802)	17.4	1.23856	143.26721	216.77402	14.26340	0.1596218	2.6175622641482
(586803)	18.3	17.98409	293.53170	5.27251	7.52977	0.1715035	2.2718579641482
(586804)	18.1	35.67741	136.76148	178.18541	2.24490	0.1273623	2.6180443641482
(586805)	17.8	298.61042	9.04249	36.94364	5.83096	0.0281572	2.6626358641483
(586806)	18.3	289.46566	66.36462	34.73116	5.27661	0.1188271	2.2389645641483
(586807)	16.8	8.73965	351.24038	358.40936	9.24006	0.0880690	3.1607547641483
(586808)	17.7	68.99615	186.99554	235.60974	3.48519	0.1070298	2.9942841641483
(586809)	17.3	158.63664	63.29818	67.22667	5.58806	0.0572459	2.7483374641484
(586810)	16.2	357.72467	147.24405	220.12447	11.53035	0.0471590	3.2182560641484
(586811)	16.7	352.33095	321.65240	46.05471	13.94274	0.2499964	2.6254542641484
(586812)	16.4	280.25237	222.42066	235.00427	20.90047	0.1586212	2.6503898641485
(586813)	17.7	344.13431	286.56477	83.66469	2.99114	0.1308112	2.6452600641485
(586814)	18.6	286.32899	332.99612	99.81274	3.09627	0.1860993	2.2801776641485
(586815)	18.1	357.24499	109.43094	230.99297	6.19129	0.1480625	2.2784495641486
(586816)	17.5	328.52618	280.66053	128.16857	3.57813	0.0712344	2.6339931641486
(586817)	17.4	282.54379	27.10153	68.47222	18.11828	0.1413650	2.6466498641486

(586818)	17.3	256.81853	359.03681	94.47199	6.55353	0.1130577	2.6799563641487
(586819)	16.9	301.22592	294.73025	159.21603	3.12871	0.1040988	3.1650978641487
(586820)	16.9	293.37698	287.23815	159.87861	15.32359	0.1036663	2.6331793641487
(586821)	16.0	29.66410	273.86396	72.21903	12.35167	0.1011997	3.2097421641488
(586822)	17.8	50.15906	220.43211	54.75824	2.12505	0.2035783	2.6606628641488
(586823)	17.9	276.47775	211.62696	233.48921	1.31177	0.0517315	2.6446229641488
(586824)	18.8	85.03641	342.94067	236.89742	2.01069	0.1482727	2.3188006641489
(586825)	15.9	177.70461	176.52716	45.85855	17.79630	0.1334691	3.1409691641489
(586826)	15.5	5.66803	19.63897	343.52139	8.77936	0.0974718	3.1708795641489
(586827)	18.4	273.58198	219.80567	226.31450	9.56211	0.0606096	2.2712677641490
(586828)	15.9	198.14817	325.24643	221.21337	14.44662	0.1470221	3.1923816641490
(586829)	16.4	21.95474	93.20820	220.29374	24.86955	0.2829733	3.1920402641491
(586830)	17.8	340.13001	302.71846	132.93610	4.25136	0.0640075	2.5901895641491
(586831)	17.4	4.66168	221.58377	122.54312	6.03050	0.0885252	2.6634071641491
(586832)	17.0	50.41886	234.09793	42.91459	12.09670	0.1494595	2.6874317641492
(586833)	16.9	133.83559	169.06769	58.31258	6.36178	0.0366724	3.2377331641492
(586834)	17.1	90.78874	249.09718	82.57051	2.82701	0.1643761	3.0830641641492
(586835)	17.0	271.09007	58.18231	70.62259	22.15530	0.1375910	2.6325322641493
(586836)	16.5	342.97344	303.64046	82.63590	12.59471	0.2608567	2.6389738641493
(586837)	17.1	317.62190	299.98054	78.87121	11.32058	0.1846685	2.6867885641494
(586838)	17.3	174.29465	323.68598	253.93762	6.20707	0.1178112	2.2690778641494
(586839)	17.7	356.98892	287.43048	84.77073	7.69099	0.2437341	2.6370503641495
(586840)	16.9	333.02173	316.00151	81.03287	13.76401	0.1675240	2.6450332641495
(586841)	17.1	333.35671	27.08012	354.53594	6.25130	0.3069215	2.6462160641495
(586842)	17.4	274.08876	197.87408	231.11684	4.54816	0.1368065	2.7078538641496
(586843)	17.3	270.17358	191.59821	244.10316	5.37216	0.2051637	2.6886979641496
(586844)	17.5	226.82733	168.84707	283.73258	10.70314	0.1201299	2.7386217641496
(586845)	16.4	318.79385	172.05101	256.75416	16.38077	0.1972482	3.1970913641497
(586846)	17.9	251.19054	129.16748	339.17677	2.51736	0.1723822	2.7025857641497
(586847)	17.9	3.37404	58.34011	293.03838	6.69551	0.1257537	2.2816871641497
(586848)	17.7	293.57377	173.20075	262.01750	4.40991	0.0285299	2.6599412641498
(586849)	18.0	150.37193	154.58869	217.13953	1.64000	0.2033690	2.4741706641498
(586850)	17.3	317.50295	100.57515	288.45618	5.24605	0.0403013	2.6873616641498
(586851)	18.1	175.04739	232.41839	295.39276	3.91697	0.1623689	2.3354266641499
(586852)	16.2	269.73695	273.81217	138.44443	6.35316	0.0274839	3.4590845641499
(586853)	18.7	317.71182	125.08190	281.48568	5.41224	0.1654623	2.2968262641499
(586854)	16.6	113.31305	280.85203	301.75798	23.29438	0.1743722	2.3687907641499
(586855)	16.9	20.97741	281.46327	136.74355	12.94207	0.1766449	2.5971086641500
(586856)	17.9	173.85739	261.32808	196.42141	4.48567	0.1924811	2.3912200641500
(586857)	17.3	10.41554	47.97293	329.65572	5.42261	0.0754690	2.6783334641500
(586858)	17.8	300.39528	107.02615	330.37058	10.39910	0.2182169	2.6859932641501
(586859)	18.1	260.05600	140.97491	289.16689	9.08690	0.1870202	2.3382438641501
(586860)	17.6	221.98900	38.37142	78.39389	6.32063	0.1171347	2.7454303641501
(586861)	17.4	12.73683	51.18046	291.27537	4.24538	0.0320563	2.7260624641502
(586862)	18.2	301.86184	126.84420	259.26744	1.83881	0.0868281	2.7566911641502
(586863)	17.0	148.12685	60.76597	121.08657	8.86294	0.1414509	2.7890148641502
(586864)	17.7	214.53930	355.94107	134.25999	4.39492	0.0411808	2.7489404641503
(586865)	18.8	101.87157	273.41844	308.54751	4.47263	0.0721644	2.3635449641503
(586866)	16.3	241.68231	304.37993	298.57591	9.23984	0.0673778	3.1298285641503
(586867)	17.8	160.63394	19.68172	142.10649	2.73131	0.0211109	2.7867524641503
(586868)	17.6	291.85049	128.31871	297.26001	7.00431	0.2549278	2.6957631641504
(586869)	18.2	235.81806	357.21987	97.37735	6.67924	0.2008579	2.3382727641504
(586870)	17.4	338.33497	84.97735	329.16671	8.54415	0.2263371	2.6519470641504
(586871)	17.6	218.30384	177.67689	292.58802	8.19733	0.1087457	2.7755095641504
(586872)	17.3	104.59424	304.96392	276.35074	4.02282	0.1066072	2.7984766641505
(586873)	16.9	130.61491	258.63812	308.23140	12.68123	0.1260097	2.7747986641505
(586874)	16.6	167.78840	334.48440	310.04703	10.28755	0.0153073	3.1808540641505
(586875)	17.8	203.76085	119.06235	97.45401	4.06638	0.1472602	2.2938092641506
(586876)	17.6	77.09004	197.64817	64.25583	3.07985	0.1855246	2.3765073641506
(586877)	18.5	184.53614	1.35966	118.10735	4.14454	0.0777770	2.3864987641506
(586878)	18.1	281.25825	163.19067	21.02866	4.99903	0.1104483	2.6104190641507
(586879)	16.3	222.22078	180.93477	337.59182	25.71175	0.1177737	2.7292354641507
(586880)	16.7	10.46690	352.01047	341.77758	15.22661	0.0766322	2.7769010641507
(586881)	17.6	302.98817	331.99925	113.60615	4.93053	0.1911612	2.6856907641508
(586882)	17.7	295.00749	263.62356	138.59965	8.31314	0.1982850	2.7527297641508
(586883)	18.3	100.32302	88.26492	137.06608	6.78077	0.0413987	2.3750752641508
(586884)	18.1	210.40844	51.73988	51.48660	2.89486	0.1830328	2.3735146641508
(586885)	17.7	235.15233	296.41175	180.16716	1.49460	0.0410019	2.7449295641509
(586886)	17.2	277.38515	270.25994	120.94638	8.37401	0.0528224	2.8113304641509
(586887)	18.0	88.34330	128.75215	121.81327	7.38144	0.1387196	2.3681827641509
(586888)	17.8	345.01952	181.99775	164.90034	5.37828	0.0757171	2.8082133641510
(586889)	14.6	4.33976	138.32965	228.61046	6.49099	0.0396773	5.2049687641510
(586890)	18.4	113.26183	34.63736	163.44561	2.45399	0.1786229	2.3970091641510
(586891)	18.0	149.31132	318.68526	176.23632	2.24530	0.1506299	2.4174221641510
(586892)	17.1	314.66949	61.01312	141.04852	2.11293	0.1241073	3.0953318641511
(586893)	18.3	101.87398	84.11629	149.82641	3.47897	0.0550399	2.3744672641511
(586894)	17.8	247.04259	160.33926	319.74940	3.70781	0.0740457	2.7441338641511
(586895)	16.8	76.80680	233.04712	31.97991	10.04925	0.0430199	2.8380551641512
(586896)	17.7	129.42229	134.12887	106.23633	2.68764	0.1434601	2.3605718641512
(586897)	16.7	173.64592	220.88327	317.11702	20.92633	0.1958099	2.3565646641513
(586898)	17.9	52.10195	297.21183	346.48536	4.69065	0.1161637	2.3897544641513
(586899)	17.2	156.74475	217.08129	337.59952	8.61198	0.1003093	2.7976727641513
(586900)	18.1	244.52635	305.47936	269.47920	1.27771	0.1038855	2.6529635641514
(586901)	17.5	39.87737	112.08280	188.64408	6.66096	0.1175182	2.3926809641514
(586902)	17.2	183.32112	352.69797	174.58503	13.38374	0.0983785	2.7986093641514
(586903)	18.6	147.71529	352.70553	172.85761	2.29368	0.1532601	2.4015386641515
(586904)	18.2	60.37211	216.22942	58.33162	1.94161	0.1756578	2.3750762641515
(586905)	18.4	97.16505	164.74519	9.73280	3.09477	0.1154888	2.4343805641515
(586906)	17.1	295.83071	64.87500	5.21741	24.29849	0.1160812	2.7623878641515
(586907)	18.3	66.16837	245.80549	10.13932	3.61744	0.1705187	2.4125748641516
(586908)	16.8	157.55349	193.44509	5.67452	13.58025	0.0963042	2.7991487641516
(586909)	17.6	73.71604	285.33875	335.53553	2.11436	0.1523705	2.4093910641516
(586910)	17.6	36.02905	133.57207	175.21658	3.57691	0.0848724	2.8108031641517
(586911)	17.8	271.26676	259.81368	190.21074	3.56771	0.0302343	2.7694630641517
(586912)	17.9	215.26399	149.75507	345.94712	1.09055	0.1308172	2.3612719641517
(586913)	17.9	64.12017	75.00867	166.46390	10.80730	0.0766056	2.8668867641518
(586914)	18.0	95.08066	108.83203	126.29113	5.06305	0.1507678	2.3649403641518
(586915)	18.7	185.09719	287.07708	211.05748	2.00140	0.1404601	2.3909413641518
(586916)	18.3	216.80830	142.04915	326.99567	8.19603	0.1487122	2.3574132641519
(586917)	18.2	143.93333	84.57166	110.44862	2.43019	0.1277109	2.3795400641519
(586918)	18.1	143.74916	186.03000	343.74131	3.68389	0.1236323	2.3935103641519
(586919)	17.9	219.47519	113.77706	182.23817	1.82562	0.0916385	2.5892965641520
(586920)	17.6	235.31150	283.75105	189.25346	7.34123	0.1777803	2.7934023641520
(586921)	18.3	50.01245	102.35581	175.97561	1.54121	0.1431427	2.3984751641520

(586922)	17.6	214.04835	296.46041	153.41348	2.48625	0.0370408	2.8387902641521
(586923)	18.0	252.36539	198.30657	279.64824	4.82751	0.1659140	2.3433621641521
(586924)	18.1	91.92935	176.17938	67.54334	2.25624	0.1590475	2.3959670641521
(586925)	17.3	66.53735	112.02379	175.06857	3.45201	0.0664221	2.8020303641521
(586926)	18.7	79.46296	219.23299	6.04884	1.50831	0.2043251	2.4189177641522
(586927)	18.7	203.15696	186.76928	10.46180	6.11844	0.0896279	2.3192924641522
(586928)	17.9	93.10446	312.50062	280.28860	2.03869	0.1800292	2.4094553641522
(586929)	18.2	95.12405	105.30495	111.32026	5.80372	0.1724536	2.4235481641523
(586930)	16.9	204.78630	109.45651	29.92325	6.51320	0.0188855	2.8351622641523
(586931)	18.1	199.86457	118.05731	26.17449	4.16895	0.1272077	2.3824836641523
(586932)	18.7	114.25732	18.76121	201.25289	3.07830	0.0757190	2.3947971641523
(586933)	18.3	126.94245	9.23974	209.69165	2.82883	0.1496165	2.3834623641524
(586934)	18.3	197.34491	123.38021	25.43974	21.76542	0.0708402	1.8531617641524
(586935)	17.9	116.96465	202.32559	12.22235	6.17721	0.0632071	2.4022659641525
(586936)	18.7	109.27010	180.24893	18.02206	2.30250	0.1406234	2.4284282641525
(586937)	19.1	64.71080	57.53127	183.82039	20.84849	0.0528666	1.8740957641525
(586938)	18.4	295.85395	197.01016	209.69773	21.76530	0.0645253	1.8625360641526
(586939)	18.1	119.74418	338.05639	229.34338	1.70372	0.1528385	2.4163689641526
(586940)	18.4	102.14951	86.49130	136.47261	3.49851	0.1253853	2.4206009641526
(586941)	18.0	81.85889	140.73287	108.91706	7.16245	0.1197030	2.4241304641527
(586942)	17.4	244.77177	106.47224	0.34747	4.26502	0.0225316	2.7691473641527
(586943)	18.3	336.44789	255.18132	137.91553	3.72963	0.1581960	2.3276856641527
(586944)	18.4	153.12019	207.26391	296.40862	1.45701	0.0663154	2.4168467641528
(586945)	18.9	291.89776	20.70482	39.58050	2.12503	0.1654542	2.3445093641528
(586946)	18.5	74.20442	199.21615	35.83338	1.71390	0.1332422	2.4214468641528
(586947)	17.4	317.37935	17.04247	24.64637	4.22079	0.0748119	2.7866380641528
(586948)	17.9	249.35979	221.61965	47.92908	4.10682	0.1769049	2.6280643641529
(586949)	16.3	222.86503	156.45678	6.24533	10.59109	0.0522185	3.4258928641529
(586950)	18.1	94.20171	193.74893	52.80170	4.91206	0.0998255	2.3804082641529
(586951)	17.0	73.96021	218.56236	101.80724	6.51211	0.0627138	2.7818727641529
(586952)	18.5	214.57634	81.97338	41.26792	3.21818	0.1458287	2.3859515641530
(586953)	18.2	41.96838	190.89428	48.92067	1.83284	0.1509647	2.4574507641530
(586954)	18.7	239.70496	322.51248	313.85523	1.84103	0.1481347	2.2486644641530
(586955)	18.3	53.27831	72.22235	209.42195	1.07058	0.1719543	2.4296237641531
(586956)	18.5	86.47001	10.94505	213.46496	1.65774	0.1648723	2.4421781641531
(586957)	18.4	142.66973	152.79915	61.61039	2.12670	0.1381056	2.3917457641531
(586958)	17.1	69.19646	335.50607	67.70627	6.51802	0.1657783	2.6812274641532
(586959)	17.5	174.01188	91.87821	172.56571	2.08655	0.0327775	2.7109000641532
(586960)	15.0	321.13142	113.12552	306.88839	2.27422	0.1236506	5.1022164641532
(586961)	16.9	24.13871	257.23232	116.20594	7.22178	0.0292455	2.7694414641532
(586962)	17.9	174.57844	59.82706	164.66195	4.99905	0.1454651	2.3505320641533
(586963)	16.9	188.86412	93.16637	58.08442	15.51617	0.0929574	2.8652146641533
(586964)	18.2	48.19945	190.16165	80.59054	5.33512	0.1982455	2.4314639641534
(586965)	17.2	129.03427	139.24658	56.19111	18.14484	0.0945364	2.8908622641534
(586966)	18.0	20.80845	256.81422	49.09437	11.19091	0.2801535	2.4448515641534
(586967)	17.8	123.72245	342.76843	242.60984	6.29830	0.2361033	2.4085140641534
(586968)	18.4	73.23120	45.69117	203.85502	5.07780	0.1854299	2.4468607641535
(586969)	16.6	148.71780	114.93050	91.21410	15.80549	0.0949798	2.8643752641535
(586970)	17.3	147.66966	349.79626	187.54359	9.47936	0.1087446	2.9104077641535
(586971)	16.3	148.61359	334.89189	259.78579	14.14024	0.1018047	2.8719187641535
(586972)	18.2	13.16471	229.80878	115.82361	3.47936	0.2088985	2.4672355641536
(586973)	16.7	25.01649	211.94761	144.38775	11.79438	0.1978032	2.9364468641536
(586974)	16.8	13.97988	179.44070	146.21692	2.53335	0.1277050	3.0215908641537
(586975)	17.2	349.46647	221.71337	134.22960	9.07763	0.1280279	3.0066064641537
(586976)	17.3	46.18947	159.68106	125.34005	11.04465	0.1128974	2.9875355641537
(586977)	17.2	133.59493	280.35021	311.30177	5.70350	0.1002841	2.4385153641537
(586978)	17.0	337.58153	217.85764	127.61847	6.13211	0.1810421	3.0474934641538
(586979)	17.4	98.77224	118.43537	122.64989	14.83578	0.1520298	2.4549120641538
(586980)	18.5	350.26919	91.87601	275.96371	0.73271	0.1938447	2.4694073641538
(586981)	17.4	220.57299	253.99349	237.37173	0.97028	0.1032861	2.9471677641539
(586982)	17.3	315.57042	272.29290	138.57467	1.09245	0.1081262	2.9507962641539
(586983)	16.6	52.53409	359.42639	294.28312	5.38587	0.0494073	2.9626933641539
(586984)	17.3	91.77914	76.28040	150.69040	1.08095	0.0942809	2.9976122641540
(586985)	17.2	134.37798	47.18808	284.39366	5.24722	0.0226248	2.7734358641540
(586986)	18.0	232.92316	158.70315	162.95175	7.25305	0.1387044	2.2667667641540
(586987)	16.6	26.82165	190.47389	130.29909	11.25895	0.0303429	2.9842572641541
(586988)	19.1	340.87049	21.90749	308.26978	6.58719	0.1620009	2.1677705641541
(586989)	16.4	356.48183	261.34123	106.06900	12.57648	0.1525255	2.9903769641541
(586990)	18.0	22.31180	38.27667	285.12032	19.82925	0.0473843	1.8966569641541
(586991)	16.1	325.63582	101.24665	295.04947	12.70410	0.1981594	3.0186320641542
(586992)	16.7	80.67330	306.23078	322.75864	10.14728	0.0776380	2.9737059641542
(586993)	19.0	0.87703	103.16800	203.93617	3.89076	0.2162935	2.1712580641542
(586994)	18.2	47.68484	242.61262	35.20644	3.97056	0.1504422	2.1525359641543
(586995)	17.9	346.89892	61.74143	359.68595	3.92765	0.1748120	2.4298172641543
(586996)	19.1	350.33934	269.85441	77.77457	1.36633	0.0567279	2.1610551641544
(586997)	16.7	289.03091	136.80247	280.85665	7.49031	0.0566433	2.9012089641544
(586998)	17.3	205.02996	183.01779	150.28446	4.11975	0.1880778	2.7062084641544
(586999)	16.8	29.63592	199.41700	172.73146	2.21994	0.1257493	2.9342553641544
(587000)	18.1	87.77531	279.44628	355.53690	19.70737	0.0614310	1.8998173641545
(587001)	17.0	347.55596	214.28417	153.26660	5.34158	0.2782491	3.0483262641545
(587002)	18.7	7.75385	256.65228	66.08914	3.26373	0.1916719	2.1628947641545
(587003)	16.6	357.92879	352.17681	357.39819	8.92924	0.2496893	3.0496312641546
(587004)	18.0	193.49211	198.86243	156.07521	5.46709	0.1435111	2.2876121641546
(587005)	17.1	347.66133	169.21003	187.26535	10.50759	0.1192280	3.0428557641547
(587006)	16.8	21.43933	136.18837	184.89491	1.02529	0.1679505	3.0180324641547
(587007)	17.1	325.38136	224.78866	176.40691	3.70470	0.1176421	3.0141476641547
(587008)	16.6	19.69801	193.70689	157.90277	10.45737	0.0937626	3.0017004641548
(587009)	16.0	327.52402	281.57870	140.72785	11.58694	0.0892429	2.9760322641548
(587010)	16.8	27.58193	38.35341	276.45085	3.32635	0.2646690	3.0096240641549
(587011)	16.3	15.61266	250.99956	88.54467	6.72375	0.1793473	3.0049236641549
(587012)	16.6	258.76865	350.65960	310.03682	18.25186	0.3215779	2.6679409641549
(587013)	14.9	38.68701	257.92354	55.25432	12.36943	0.3038100	3.9618269641550
(587014)	17.8	1.50564	230.53092	108.97869	5.47398	0.2022893	2.5123300641550
(587015)	16.7	307.85782	32.70279	12.70394	12.78491	0.0802347	3.0518006641551
(587016)	16.6	349.24014	258.78070	93.01731	6.37257	0.1678707	3.0598617641551
(587017)	16.8	342.89246	160.25635	234.61293	8.86774	0.0949407	2.9945178641551
(587018)	16.7	10.90949	235.80756	101.71691	6.10142	0.1642777	3.0117238641552
(587019)	18.0	266.67088	340.89779	75.58159	3.56492	0.1910022	2.5600017641552
(587020)	16.9	5.69776	45.43167	298.07433	8.39330	0.0847937	3.0255099641552
(587021)	18.6	141.55325	47.43245	246.90197	1.19573	0.2334344	2.3841957641553
(587022)	16.9	17.45173	354.30762	333.61753	10.66178	0.0599168	3.0473202641553
(587023)	17.9	28.07311	55.37427	268.06143	6.01485	0.1036593	2.4832462641553
(587024)	16.1	60.86958	123.48456	165.34585	5.86908	0.1538234	3.9141089641553
(587025)	18.4	158.84192	214.79626	326.26693	19.44813	0.1300025	1.9072916641554

(587026)	17.1	65.29757	298.11027	347.85591	7.55118	0.1188923	3.0044401641554
(587027)	18.3	200.83383	291.52748	29.77392	4.04390	0.1063347	2.3140614641554
(587028)	15.8	19.44235	98.35308	216.37885	5.55445	0.2787231	3.9623393641555
(587029)	17.0	356.49241	160.91496	190.10706	10.55728	0.1522753	3.0363406641555
(587030)	17.1	25.46073	223.51252	93.46610	2.68283	0.1678324	3.0410482641555
(587031)	18.0	168.84332	335.58490	20.35942	6.69464	0.1428926	2.3171447641555
(587032)	16.1	58.18285	34.78065	178.34843	17.25825	0.1468324	3.1596079641556
(587033)	17.1	320.52280	179.67532	232.51170	6.34757	0.2691743	3.0661072641556
(587034)	17.1	36.88435	136.08493	198.12422	11.06693	0.1148051	2.9732556641556
(587035)	17.1	282.53932	142.81820	298.48050	10.74262	0.1691057	3.0333215641557
(587036)	17.0	27.60778	241.62321	54.82884	2.17561	0.1777789	3.0656980641557
(587037)	17.0	297.83748	3.61940	88.03763	6.81242	0.1509576	3.0253398641557
(587038)	16.0	12.65320	280.48794	66.06298	15.28488	0.0764198	3.0641709641558
(587039)	16.0	2.86000	48.26749	315.66541	18.14620	0.1345841	3.0326508641558
(587040)	16.9	330.51254	235.20931	180.77917	10.18281	0.1068689	2.9999173641559
(587041)	16.8	307.18251	75.47762	345.84792	15.09933	0.0935181	3.0345439641559
(587042)	16.0	75.29854	185.76367	83.39797	4.14136	0.1499345	3.9133255641559
(587043)	17.0	107.20423	284.44188	338.16094	0.11099	0.0200434	2.9798433641560
(587044)	17.3	27.92414	133.25685	169.92434	10.55283	0.0198849	3.0573028641560
(587045)	17.4	326.31654	204.44797	157.71869	1.86735	0.1775111	3.1036432641560
(587046)	16.1	75.56283	91.17960	198.61085	10.62240	0.0703639	3.9620572641560
(587047)	16.8	29.73064	354.32856	3.01802	3.19714	0.1182493	2.9889445641561
(587048)	17.4	11.57920	147.71753	177.70614	9.98480	0.2776092	3.0519332641561
(587049)	18.1	293.58950	277.57396	124.05435	3.69905	0.1476413	2.5471529641561
(587050)	16.6	350.66374	322.27390	27.88404	8.87683	0.1902805	3.0705071641562
(587051)	17.4	347.28043	49.40320	359.44647	9.63947	0.2475358	3.0079211641562
(587052)	18.6	11.58966	339.64302	346.57455	5.35047	0.1704754	2.1653894641562
(587053)	16.4	87.17799	319.22204	295.49623	3.89186	0.1582827	3.0570631641562
(587054)	16.9	281.84139	272.17710	174.56306	2.26478	0.0538308	3.0419994641563
(587055)	17.5	215.81666	332.02287	346.03620	6.41698	0.1640066	2.3136373641563
(587056)	17.1	339.96092	49.32026	11.68635	9.85748	0.0479924	2.9820753641564
(587057)	17.2	336.03564	30.66134	351.08758	1.91787	0.1312212	3.0635588641564
(587058)	16.8	327.53150	61.49014	0.42251	2.36954	0.1248716	2.9963113641564
(587059)	16.4	208.21282	129.98936	358.32654	10.02311	0.1636093	3.1588120641564
(587060)	18.3	131.64334	243.27268	85.03991	2.62442	0.2001502	2.3890824641565
(587061)	17.0	330.61488	129.71658	258.43558	7.46680	0.1021856	3.0312671641565
(587062)	16.7	242.50025	182.98189	336.35233	8.55304	0.0341698	2.9701464641566
(587063)	17.8	193.94216	236.03994	289.09422	5.80470	0.0957555	2.2507916641566
(587064)	17.7	146.84086	266.36811	290.17018	6.20464	0.0519522	2.2642561641566
(587065)	16.6	205.58983	79.60932	62.54688	11.38839	0.0581985	3.0988241641567
(587066)	15.6	34.15907	290.07464	20.94926	9.00680	0.1794276	3.9840449641567
(587067)	17.1	319.15596	256.03300	179.75829	9.53449	0.1260436	2.9861571641568
(587068)	16.7	175.48301	20.76202	154.98347	14.50796	0.1055554	3.1179196641568
(587069)	17.1	325.35143	242.29812	145.63038	6.65739	0.1637362	3.0776996641568
(587070)	16.6	258.48124	327.97672	115.49931	22.76414	0.0271760	2.6597855641569
(587071)	18.3	110.39629	4.99787	195.12102	6.11856	0.0929809	2.2002166641569
(587072)	16.4	213.99925	283.09718	206.27902	7.32949	0.1556750	3.1380157641569
(587073)	16.2	26.43090	292.33334	22.92912	16.21031	0.0862536	3.0989816641570
(587074)	16.5	324.41445	18.87177	17.62707	16.04333	0.1015193	3.0773236641570
(587075)	18.6	314.47180	194.48923	219.33376	4.26267	0.1234883	2.1658179641570
(587076)	17.0	105.99942	229.96845	21.08463	9.57582	0.0319920	3.0434956641571
(587077)	17.0	197.53679	135.82605	13.72046	9.94674	0.0358305	3.0763241641571
(587078)	18.6	325.27118	342.12126	5.64967	3.25594	0.0617158	2.5668330641571
(587079)	18.1	216.74813	186.48272	304.11059	2.27010	0.1195501	2.6567024641571
(587080)	16.9	53.33472	224.52552	12.80443	11.22289	0.0440675	3.1854014641572
(587081)	17.8	94.87290	171.15969	185.49372	1.92885	0.1020332	2.8860551641572
(587082)	17.2	7.02585	310.92168	15.28802	0.48516	0.1650245	3.0729342641572
(587083)	17.3	0.16949	207.82147	129.45296	2.18444	0.1870488	3.0830780641572
(587084)	18.7	292.08489	54.17282	14.91821	20.25405	0.1009115	1.9159926641573
(587085)	16.9	40.47111	86.58657	209.76603	14.07917	0.3412911	3.0519144641573
(587086)	16.4	5.39886	278.43215	55.03471	12.32591	0.3277250	3.0374751641573
(587087)	16.5	42.13401	265.88358	27.69754	9.34162	0.0495229	3.0793451641574
(587088)	18.6	37.05468	335.05185	290.05363	1.35679	0.1459463	2.5535504641574
(587089)	17.4	325.98288	234.31736	142.02562	1.09044	0.2017019	3.1016243641575
(587090)	17.5	317.87169	351.54638	44.31482	1.98954	0.1803699	3.0922192641575
(587091)	18.9	256.79331	148.45680	293.98153	2.47078	0.0414138	2.1770389641575
(587092)	17.4	297.78714	340.73489	63.31075	1.86322	0.1922556	3.1045155641576
(587093)	19.2	323.78806	19.06418	1.32440	5.53495	0.0375233	2.1770986641576
(587094)	15.7	54.27021	315.85663	348.67034	2.25176	0.1798478	3.9694042641576
(587095)	18.6	52.21362	158.75162	219.03978	4.75818	0.1501874	2.4299586641576
(587096)	16.2	48.07734	85.28010	230.04006	4.17600	0.1723671	3.9370816641577
(587097)	16.4	296.71197	44.58702	16.02510	13.22308	0.1485782	3.0943569641577
(587098)	18.7	239.97795	257.03833	202.30336	21.65411	0.1401788	1.9395200641577
(587099)	17.2	79.80430	91.22438	188.00745	11.89589	0.0147868	3.0588711641578
(587100)	18.2	28.97168	198.57156	115.03579	3.85314	0.1240561	2.5244379641578
(587101)	16.9	103.52182	162.47465	62.97665	7.02328	0.0660770	3.1200843641578
(587102)	15.7	36.49048	195.74966	109.50012	4.47095	0.2181738	4.0252842641579
(587103)	17.4	99.51491	152.31527	81.55274	4.61796	0.1446940	2.5369601641579
(587104)	17.8	64.42015	137.77431	137.98241	4.62158	0.0867052	2.5292325641580
(587105)	16.7	263.60003	240.84379	206.47353	19.98548	0.3433123	3.1539323641580
(587106)	16.9	257.87862	256.02622	214.95019	10.02778	0.0810719	3.0498713641580
(587107)	18.6	325.43164	312.19837	62.31262	6.80005	0.1998464	2.1761213641581
(587108)	16.7	356.98488	223.01960	128.87837	3.06332	0.2336201	3.0432805641581
(587109)	16.4	334.89663	325.06467	92.26041	11.82832	0.1899879	3.0064961641581
(587110)	16.7	262.41516	63.97409	23.00291	14.32990	0.1605954	3.0979737641582
(587111)	15.5	12.56048	195.43361	149.45940	14.45478	0.2372539	3.9726899641582
(587112)	16.2	200.90421	95.42616	41.70134	12.05045	0.0858337	3.1264395641582
(587113)	16.6	341.58543	56.48505	335.74185	9.30873	0.0595123	3.0511897641583
(587114)	18.2	166.14323	122.82725	41.57809	5.32688	0.1283362	2.1837890641583
(587115)	16.5	347.12306	150.64923	231.98566	8.14315	0.0976224	3.0545067641583
(587116)	16.6	314.23982	60.24020	353.71141	10.09166	0.1384078	3.0504607641584
(587117)	17.2	7.58117	86.56456	227.80707	14.30494	0.2275567	3.1033172641584
(587118)	16.8	189.86572	145.75392	9.36693	12.07132	0.1218828	3.0610938641584
(587119)	16.5	293.93908	120.23930	304.68463	8.16661	0.0627409	3.0678142641585
(587120)	16.8	244.84292	104.44311	2.25987	10.39976	0.0847864	3.0451313641585
(587121)	18.4	244.05545	292.85114	183.39004	5.59437	0.2735039	2.5558134641585
(587122)	17.2	232.25837	172.69761	289.53007	4.01813	0.1092512	3.1546173641585
(587123)	18.3	343.45190	98.24708	71.62856	4.63146	0.1577870	2.3615738641586
(587124)	16.8	353.87993	172.68181	225.04441	9.11427	0.1031617	3.0528211641586
(587125)	16.9	245.40666	269.75325	204.14903	8.81444	0.0460195	3.0600920641586
(587126)	17.2	26.00087	123.38039	205.06501	12.99271	0.0440963	3.0471846641587
(587127)	18.8	326.38110	350.33698	25.49976	2.51856	0.1634807	2.5388590641587
(587128)	17.2	232.80338	35.29679	68.96171	2.58651	0.1222436	3.1956026641587
(587129)	16.9	276.10485	274.42254	172.32157	9.36290	0.3473179	3.1652906641587

(587130)	17.3	267.79124	281.18004	146.90460	1.50844	0.1289552	3.1573211641588
(587131)	16.9	353.01025	192.20268	199.40442	10.43532	0.0555252	3.0488984641588
(587132)	16.8	16.40869	253.77921	62.44023	12.02952	0.1285314	3.1238098641588
(587133)	16.5	52.36776	256.88532	33.54816	7.71052	0.1413104	3.0920514641588
(587134)	16.2	136.91944	304.30154	232.00621	15.82042	0.0838545	3.2272018641589
(587135)	16.6	35.64075	121.84046	200.90869	3.73387	0.0367478	3.0702321641589
(587136)	16.5	168.19934	337.98659	232.91233	12.66516	0.0349132	3.0553559641589
(587137)	16.6	129.29644	214.05682	15.76027	10.25671	0.0708641	3.0378727641590
(587138)	16.6	289.30306	241.90657	201.89370	7.55992	0.1700229	3.0590792641590
(587139)	16.7	337.83423	8.44877	31.99254	12.88623	0.0633095	3.0531657641591
(587140)	17.2	280.15744	314.88389	141.42424	0.12392	0.1240286	3.0757677641591
(587141)	18.5	352.33457	331.41853	27.22420	3.91868	0.1777508	2.5336516641591
(587142)	18.0	79.78494	232.67304	33.17689	22.28770	0.0189040	1.9243667641592
(587143)	16.6	284.35297	210.74234	220.47613	10.48026	0.0392609	3.1272424641592
(587144)	17.0	257.76223	66.27034	15.56819	9.97688	0.0685540	3.1474626641592
(587145)	18.1	23.95872	197.44577	123.88494	3.99691	0.1781667	2.5386099641593
(587146)	18.2	0.69900	150.61798	192.49396	7.53633	0.2434486	2.5338901641593
(587147)	16.4	86.72912	9.76831	274.70111	8.14977	0.0216168	3.0973358641593
(587148)	16.7	201.14525	106.00625	45.43255	12.82293	0.0941834	3.1167039641594
(587149)	16.8	258.51401	254.19149	210.97372	8.91638	0.0521206	3.0779602641594
(587150)	18.8	269.65374	233.41706	213.29105	20.43934	0.1004748	1.9268014641594
(587151)	16.8	106.39926	354.23457	238.30186	11.88834	0.2133159	2.5677793641594
(587152)	16.6	301.40682	37.30383	50.53517	10.69546	0.0838790	3.0605068641595
(587153)	16.6	256.06622	245.13059	229.01924	15.64581	0.1693671	3.1207724641595
(587154)	17.9	265.67447	37.99920	52.08363	12.63158	0.1547856	2.5510705641595
(587155)	17.1	340.33214	142.75706	211.63471	10.97539	0.0545109	3.1528004641596
(587156)	17.1	331.09614	324.96528	84.75209	3.76233	0.1152839	3.0629467641596
(587157)	17.8	16.78450	349.37962	336.79751	3.08836	0.1894343	2.5506685641596
(587158)	18.0	231.47453	222.92871	277.18077	4.84612	0.2130747	2.5530503641597
(587159)	16.5	28.86986	299.82511	19.16335	10.60970	0.0931220	3.1028333641597
(587160)	17.4	138.28691	343.64931	164.26811	4.25760	0.0313018	2.6386859641597
(587161)	16.6	316.69859	184.68357	238.85347	7.11560	0.0203144	3.0657894641598
(587162)	16.7	343.62548	323.51721	74.29597	16.79848	0.2497668	3.0588857641598
(587163)	16.6	3.62478	136.29075	226.71191	9.70224	0.0128210	3.0753503641598
(587164)	17.1	256.13335	215.54922	211.77336	8.64888	0.0913030	3.1774019641599
(587165)	18.2	30.69331	165.06187	158.42645	3.45306	0.2102230	2.5176619641599
(587166)	16.9	359.07743	127.92315	267.52264	6.27828	0.0817811	3.0280102641599
(587167)	18.4	350.00300	293.78870	65.39529	6.52981	0.2209017	2.5323166641599
(587168)	16.7	91.56563	254.08977	43.22887	10.12973	0.0959764	3.0415755641600
(587169)	17.9	11.31711	246.76459	79.73168	4.91170	0.2009293	2.5429789641600
(587170)	17.0	28.21358	181.38017	117.99287	2.40298	0.1616532	3.0835530641601
(587171)	18.8	49.94109	218.27600	80.08862	2.55703	0.1375021	2.1660744641601
(587172)	17.1	352.13672	166.45620	202.90183	8.21715	0.0723846	3.1003184641601
(587173)	18.2	5.79318	256.80278	70.73967	4.43009	0.2745496	2.5313666641601
(587174)	16.3	251.21006	226.77304	234.46327	13.88250	0.0539550	3.1277024641602
(587175)	16.4	65.29258	27.25465	249.27823	8.63634	0.0692396	3.1393580641602
(587176)	18.1	327.70571	166.37222	213.30867	11.77000	0.1811893	2.5424847641602
(587177)	16.9	264.61938	359.28619	101.93562	3.01277	0.0397415	3.1069699641603
(587178)	16.6	354.06482	90.70730	269.75948	11.82274	0.1728689	3.0638273641603
(587179)	17.1	235.83952	262.66543	222.39499	9.46336	0.1293803	2.5664916641603
(587180)	18.1	342.99336	102.25097	252.74358	1.82252	0.0991894	2.5492401641604
(587181)	16.7	43.00379	237.67934	36.52766	17.01195	0.2105301	3.1377379641604
(587182)	17.4	20.11756	246.56768	93.95902	5.15048	0.0407124	2.5302896641604
(587183)	17.6	8.55612	109.21903	209.55635	15.36227	0.2345326	3.1009947641605
(587184)	16.3	11.79641	190.49907	168.37382	13.17300	0.1771951	3.0413902641605
(587185)	17.1	255.69649	102.54917	4.53495	5.08674	0.1088251	3.1270443641605
(587186)	18.0	258.68521	291.49693	174.60103	14.39798	0.1330466	2.5476018641606
(587187)	16.6	236.52389	266.13061	178.85073	11.49159	0.0599498	3.1490497641606
(587188)	17.1	334.84920	230.48117	143.74872	6.09895	0.1563166	3.0845486641606
(587189)	16.5	351.53386	257.80801	114.95052	9.90678	0.2093346	3.0624684641607
(587190)	17.0	225.02704	300.53335	195.45444	0.37061	0.0548431	3.0972607641607
(587191)	17.1	321.37371	172.18943	242.68574	4.29892	0.0327014	3.0567420641607
(587192)	16.4	298.41947	339.55182	55.51296	11.84970	0.0991728	3.1607968641608
(587193)	16.4	203.77862	335.57647	255.30443	10.66498	0.0528504	2.9946283641608
(587194)	18.0	252.33675	191.48230	303.19517	4.04735	0.1241894	2.5366905641608
(587195)	16.6	195.12544	65.03376	74.48013	9.58768	0.1036756	3.2192743641609
(587196)	16.8	68.31872	194.95789	77.83662	4.74722	0.0259847	3.1130600641609
(587197)	17.9	23.98474	94.64906	305.14390	2.01763	0.1313714	2.4686080641609
(587198)	16.7	169.63143	288.34010	257.52867	5.83029	0.1264620	3.1199485641610
(587199)	17.1	26.06653	51.41789	255.85732	8.94096	0.1923496	2.5386010641610
(587200)	15.7	132.59180	327.04100	243.64590	17.27850	0.1108391	3.1742162641610
(587201)	17.5	63.10449	215.44124	50.85196	11.83024	0.0850844	2.5852337641611
(587202)	17.0	327.35004	232.66809	189.80952	10.22797	0.0840847	3.0231857641611
(587203)	16.8	187.46238	111.73909	39.12964	10.48614	0.1601407	3.1697590641611
(587204)	17.2	297.33129	286.53455	126.93559	2.51037	0.1796769	3.1453557641612
(587205)	17.0	170.99229	44.63915	93.57076	1.84781	0.0644916	3.2016655641612
(587206)	16.6	146.07648	105.73359	103.64393	5.31346	0.0739433	3.1190576641612
(587207)	17.5	67.54401	121.10289	123.78332	6.76687	0.0276244	2.5940383641613
(587208)	16.4	6.95321	320.35844	27.62401	15.40643	0.0538173	3.0975833641613
(587209)	16.6	149.39001	295.21233	270.50502	7.83513	0.0761253	3.1100511641613
(587210)	18.3	234.87664	303.11555	139.07325	4.77407	0.1596461	2.6136651641614
(587211)	16.8	265.74698	148.55821	306.11343	7.25678	0.0532779	3.0756269641614
(587212)	17.7	90.45956	195.59685	66.71280	3.97713	0.0310261	2.5539402641614
(587213)	17.0	94.33671	313.78891	255.39753	8.54714	0.1000748	3.1753670641615
(587214)	16.9	264.94852	236.26346	213.55796	8.49156	0.0342173	3.1295263641615
(587215)	17.5	242.02316	225.11625	6.70856	3.08096	0.0500343	2.8662321641615
(587216)	17.2	261.92671	233.02412	211.16795	7.06710	0.1242678	3.1392559641615
(587217)	17.5	136.98682	189.04438	200.44707	6.32914	0.0352891	2.8042815641615
(587218)	17.3	309.27214	91.42996	329.24288	4.24782	0.1159563	3.1079905641616
(587219)	17.7	259.08505	201.85289	246.03034	7.19641	0.0575992	2.5575959641616
(587220)	18.0	92.95951	199.70884	97.29910	2.76282	0.1571606	2.4860743641616
(587221)	18.9	179.40727	64.92971	64.63469	6.92482	0.1122701	2.2402809641617
(587222)	16.6	358.90039	323.57156	78.50310	10.73120	0.0826126	3.0325939641617
(587223)	16.3	86.42261	51.11606	212.89583	8.83989	0.0438501	3.1290424641617
(587224)	16.8	235.65588	255.60963	219.47087	10.27856	0.0272137	3.1137790641618
(587225)	17.2	33.41549	343.21016	14.14070	2.25177	0.0936919	3.0328425641618
(587226)	17.7	55.87633	70.38295	211.16544	14.50378	0.0953918	2.5557895641618
(587227)	18.5	240.43801	216.31297	84.30693	3.81084	0.1640771	2.3204877641618
(587228)	16.9	17.75713	232.26624	121.40074	5.36558	0.1457080	3.0922613641619
(587229)	16.8	231.19598	261.87043	224.92425	15.17403	0.0242726	3.0901465641619
(587230)	16.7	353.08217	344.79582	15.59652	7.04501	0.2155866	3.0776633641619
(587231)	18.6	250.43326	299.28600	0.26322	4.18494	0.1505039	2.3105123641619
(587232)	18.2	45.22488	267.34167	325.82780	4.05050	0.0904368	2.2173271641620
(587233)	18.0	324.47682	216.83020	168.80567	2.94427	0.1870050	2.5525924641620

(587234)	16.6	6.21510	145.12890	219.93897	9.03085	0.0830468	3.0921659641620
(587235)	17.7	236.52404	219.46822	246.94568	3.45586	0.1519807	2.5770128641621
(587236)	17.6	214.85124	155.12120	257.97087	2.47521	0.0938375	2.6562057641621
(587237)	18.0	219.43827	0.75933	140.64886	4.73027	0.1022272	2.5630833641621
(587238)	17.8	194.67670	80.84253	62.13025	8.35265	0.1357216	2.5901935641622
(587239)	17.1	186.72077	114.61560	193.88058	6.94021	0.0662516	2.8542341641622
(587240)	18.1	193.17811	277.52515	195.68804	1.34452	0.1583718	2.6306290641622
(587241)	16.6	320.82725	306.01231	84.57681	11.87876	0.0803571	3.1440063641623
(587242)	17.0	351.58683	106.22533	260.72270	8.54065	0.0832548	3.1185244641623
(587243)	16.5	263.16943	45.36793	93.14868	8.81426	0.1083699	3.0648278641623
(587244)	16.6	165.58797	312.98272	231.85888	10.24581	0.0356936	3.1621774641623
(587245)	16.8	230.18277	110.19321	33.42849	5.95801	0.0878217	3.1156400641624
(587246)	16.1	220.11829	268.97879	249.58991	15.11036	0.1925995	3.1066652641624
(587247)	17.0	358.72209	89.87448	267.22188	8.14273	0.0916621	3.1053377641624
(587248)	18.2	318.69981	111.00542	284.28091	6.22546	0.0712123	2.2424766641625
(587249)	15.9	112.79065	177.75691	62.32967	18.15654	0.1708347	3.1495107641625
(587250)	18.6	233.10524	341.61011	92.62562	3.42054	0.0985833	2.2354813641625
(587251)	18.7	297.28608	317.14035	77.88216	4.87762	0.1186434	2.2054937641626
(587252)	16.2	124.38882	11.54769	253.27021	9.06656	0.1163311	3.0241427641626
(587253)	16.8	310.72072	133.78654	255.89790	7.28779	0.0823255	3.1723446641626
(587254)	16.5	219.55193	243.49569	247.33232	9.69913	0.0295011	3.1339613641627
(587255)	16.5	285.44602	199.29390	235.41079	11.12147	0.0510152	3.1122967641627
(587256)	17.3	173.69353	348.35485	18.94913	6.73322	0.0172206	2.7700668641627
(587257)	17.3	17.09025	40.47127	267.60995	5.64907	0.2191444	2.5516807641628
(587258)	16.9	258.42471	298.08853	190.30334	18.17947	0.3393399	3.1046901641628
(587259)	18.1	150.79491	96.62379	290.96234	1.57076	0.1938751	2.7912454641628
(587260)	16.2	268.20006	336.02913	127.53483	10.72988	0.0621896	3.0832589641628
(587261)	16.8	276.83261	12.17318	59.17391	10.18493	0.0301551	3.1576276641629
(587262)	17.8	226.99727	287.25117	205.36493	15.40372	0.1895275	2.5528513641629
(587263)	18.7	70.65084	232.70195	24.77513	5.79984	0.1201881	2.2010483641629
(587264)	16.8	257.43247	230.18015	191.03263	8.77195	0.0755903	3.1847447641630
(587265)	16.8	342.66960	299.36254	80.86299	16.66256	0.0439477	3.1704729641630
(587266)	17.9	218.12642	346.00972	124.93386	8.97592	0.1610505	2.6765346641630
(587267)	16.9	272.24609	95.11937	40.97759	9.85355	0.1044983	3.0328842641630
(587268)	17.0	10.60994	82.75462	243.18620	7.91096	0.1263585	3.1536368641631
(587269)	17.8	172.23644	296.37631	70.77240	5.32972	0.0842879	2.8017850641631
(587270)	17.7	355.03110	105.51596	243.48609	3.67907	0.1332978	2.5597302641631
(587271)	17.6	194.90132	4.82984	62.49537	14.96994	0.2301420	2.6895391641631
(587272)	17.0	5.14731	306.55799	40.69765	1.79752	0.2008821	3.0987100641632
(587273)	18.8	349.94654	123.37184	220.98151	1.79714	0.1775419	2.1927200641632
(587274)	18.1	261.86817	4.31034	95.17570	3.17590	0.1772341	2.5728119641632
(587275)	16.7	301.68435	170.39565	255.08749	13.00251	0.0422520	3.1381457641633
(587276)	18.5	289.51642	338.24737	65.13110	23.12349	0.0915429	1.9421845641633
(587277)	16.2	69.24947	199.99018	74.48821	10.43334	0.0598409	3.1664325641633
(587278)	17.4	11.13202	249.51352	83.52186	4.12438	0.1296947	2.5623319641633
(587279)	16.9	58.79167	267.28105	67.92565	3.68612	0.1088465	3.0551083641634
(587280)	16.4	95.47349	20.09545	233.29885	10.17612	0.0744640	3.1258351641634
(587281)	16.7	245.42149	208.11672	256.87960	7.69493	0.0403613	3.1752347641635
(587282)	17.7	168.20450	250.21152	244.74155	11.64618	0.1059597	2.6425407641635
(587283)	17.9	294.06162	21.42584	27.91587	0.45477	0.1164645	2.5741463641635
(587284)	16.9	315.61738	142.97018	252.18883	8.99100	0.2250518	3.1399243641635
(587285)	16.6	144.44279	315.87582	263.02669	9.06737	0.0767324	3.1362958641636
(587286)	16.5	240.83456	247.13365	235.68453	8.74857	0.1835850	3.1458637641636
(587287)	17.1	132.53668	154.44669	76.65750	11.61698	0.1185723	2.5627116641636
(587288)	16.9	337.37877	177.95160	243.96240	9.03694	0.0465272	3.0621014641637
(587289)	16.8	260.02452	34.38793	52.35568	16.20300	0.2056830	3.1600550641637
(587290)	16.5	14.93854	229.89583	96.59367	3.71017	0.1607326	3.1469551641637
(587291)	18.5	244.90314	229.12960	248.07142	5.61090	0.1288301	2.2055831641638
(587292)	16.4	19.78974	89.39706	262.51859	15.27044	0.1216972	3.1163595641638
(587293)	17.6	2.14037	60.61322	292.31177	5.72321	0.1600954	2.5708749641638
(587294)	17.1	308.59865	249.90494	183.93633	12.70338	0.1626871	2.5338251641638
(587295)	16.4	310.54655	358.46997	74.93588	9.29015	0.0631095	3.1198459641639
(587296)	18.3	248.82948	134.61350	317.68226	1.74343	0.1365706	2.6111628641639
(587297)	17.3	79.14806	210.37808	60.95469	6.44769	0.2022866	2.5515359641639
(587298)	17.7	274.79875	350.21860	61.80316	3.24398	0.0444779	2.6023175641640
(587299)	17.9	257.19733	351.99169	89.32311	15.62011	0.0548700	2.5618024641640
(587300)	19.1	279.75205	356.67284	65.14430	3.24216	0.0845193	2.2026247641640
(587301)	17.5	312.44745	245.29327	94.03551	2.88732	0.1560002	2.6238495641641
(587302)	16.8	220.72043	212.98839	258.11812	9.65846	0.0908252	3.2351378641641
(587303)	16.0	312.87449	94.49120	6.06070	2.99606	0.0783518	3.9691432641641
(587304)	16.4	266.39531	224.24925	268.72158	9.65260	0.0653082	3.0856018641641
(587305)	16.6	310.21368	31.50977	75.31041	11.65341	0.2543044	3.0272158641642
(587306)	15.9	225.64129	280.66649	225.48545	24.36975	0.3171521	3.1812508641642
(587307)	16.4	290.37177	13.45390	70.01249	18.83032	0.0924220	3.1273429641642
(587308)	17.7	45.82567	259.17424	71.30777	1.85792	0.1930816	2.5161256641643
(587309)	18.0	26.46617	34.11084	274.13137	1.43724	0.2030501	2.5680451641643
(587310)	19.1	280.35335	4.89711	53.95721	4.29068	0.1012422	2.2129244641643
(587311)	18.8	12.55924	65.41977	264.51217	3.45404	0.1989425	2.1845584641644
(587312)	16.6	249.39843	70.81647	64.45086	10.63006	0.0291075	3.0739322641644
(587313)	16.6	337.31630	264.27776	139.12567	1.82467	0.1791062	3.1132870641644
(587314)	16.1	269.09192	57.06652	64.31013	10.18724	0.0472291	3.0807603641644
(587315)	17.2	291.29077	148.26679	262.11581	21.39722	0.0889136	2.5893922641645
(587316)	16.1	9.03100	99.11426	284.66182	10.25352	0.0515414	3.1060376641645
(587317)	17.8	0.73542	291.57061	73.85076	2.17391	0.1782166	2.5554975641645
(587318)	17.8	275.28345	3.92722	89.77088	15.44996	0.0622629	2.5790239641646
(587319)	16.2	1.75160	287.09549	63.47985	14.68942	0.2253453	3.1125965641646
(587320)	16.9	259.45982	199.54231	263.57447	13.22204	0.1415957	3.1521253641646
(587321)	17.6	318.91278	30.92091	5.70377	5.17118	0.1201951	2.5683097641646
(587322)	17.0	70.75690	83.59479	290.24917	9.47163	0.0743481	2.9901593641647
(587323)	16.6	2.93634	61.28543	294.20321	7.88956	0.0920415	3.1592700641647
(587324)	18.5	275.77720	85.25337	329.39436	3.85000	0.2573425	2.6048266641648
(587325)	16.3	347.06337	281.23696	81.28024	12.11836	0.0722976	3.2008589641648
(587326)	16.2	322.02418	344.90029	78.53509	13.00367	0.0791624	3.1184846641648
(587327)	16.1	284.27596	197.50852	249.79344	19.19436	0.0945621	3.0999988641648
(587328)	16.2	313.92298	308.91845	121.33028	7.60018	0.1208089	3.0875530641649
(587329)	17.1	51.94274	196.53844	61.72713	2.08189	0.1604195	3.1058992641649
(587330)	16.8	300.97192	327.43651	116.81292	10.71394	0.0571676	3.1725625641650
(587331)	18.8	136.53822	34.14312	123.53731	2.14937	0.1234943	2.3240390641650
(587332)	16.6	90.77292	196.10233	48.33744	3.16581	0.0732721	3.1297387641650
(587333)	17.0	251.22281	80.60732	14.31712	1.54586	0.1051547	3.1818053641651
(587334)	17.4	68.82932	282.28723	10.66759	4.09097	0.0655645	2.5646667641651
(587335)	16.3	32.82199	48.50481	275.19340	11.74356	0.0096432	3.1964384641651
(587336)	16.2	14.67329	297.79337	69.37421	10.82247	0.1070331	3.0940341641652
(587337)	16.7	246.60836	35.24043	62.90799	12.55236	0.0796330	3.1920678641652

(587338)	16.9	304.24412	310.00442	93.92809	11.11015	0.0105481	3.1845809641652
(587339)	16.8	168.13404	260.62242	280.34589	8.29670	0.0351924	3.1661609641652
(587340)	15.8	76.10973	343.73450	310.31309	10.03010	0.0832865	3.1631838641653
(587341)	16.2	155.75132	327.88911	239.78197	13.50310	0.2291030	3.1649797641653
(587342)	16.4	335.83647	307.04628	69.65372	10.61304	0.0835808	3.1642134641654
(587343)	17.6	222.16374	23.51630	82.29583	13.18139	0.1498868	2.6190178641654
(587344)	16.7	225.09555	32.35127	92.73803	12.25586	0.0473407	3.1775234641654
(587345)	17.1	127.04686	297.93801	238.99483	11.84300	0.2011356	2.6764290641654
(587346)	18.4	71.66908	311.38422	307.14641	3.13436	0.1090088	2.2364905641655
(587347)	18.6	109.07744	289.32127	264.49037	6.63292	0.1987081	2.2628616641655
(587348)	16.7	336.99277	279.91494	74.25734	10.51301	0.1042024	3.1735031641655
(587349)	16.5	40.98394	19.96465	292.48322	7.82209	0.0860488	3.1756076641656
(587350)	16.6	340.30001	144.94391	264.84978	8.69603	0.0552024	3.1196597641656
(587351)	18.7	162.64565	223.47263	284.43382	4.68307	0.1450481	2.2719093641656
(587352)	16.3	315.32227	338.87910	116.22944	5.64681	0.1590280	3.0764936641656
(587353)	16.5	355.92900	88.30108	308.37967	9.06768	0.0705312	3.1396047641657
(587354)	18.1	3.43969	32.30482	314.80007	2.16010	0.1104917	2.5833990641657
(587355)	15.9	330.27628	127.89889	295.88835	26.21751	0.1772934	3.1096687641657
(587356)	16.8	341.93394	80.26233	314.84170	6.51372	0.1749952	3.1414779641658
(587357)	18.1	333.46066	348.17734	33.68509	2.72736	0.2114440	2.5706100641658
(587358)	16.0	67.53475	201.57340	92.52207	11.23114	0.0263599	3.1917186641658
(587359)	16.1	62.99132	216.00370	88.55368	10.11562	0.0832266	3.1748771641659
(587360)	16.3	13.43148	66.07557	289.59687	9.34739	0.1062170	3.1652976641659
(587361)	16.1	15.80858	228.34793	101.08480	19.28602	0.1205461	3.2038068641659
(587362)	17.4	348.19958	254.71786	107.80101	2.93728	0.2368784	2.5723022641660
(587363)	16.9	330.10336	130.34856	300.93355	10.86024	0.0885918	3.0960150641660
(587364)	16.4	1.59620	299.97914	92.83373	10.04648	0.1078327	3.0952547641660
(587365)	17.4	50.60988	37.47727	300.30273	9.13122	0.0387366	2.5489134641661
(587366)	17.1	334.50824	330.27881	104.06148	10.20535	0.1320406	3.0862903641661
(587367)	17.8	344.99227	247.61915	85.73594	4.89808	0.0934906	2.6364651641661
(587368)	16.4	313.84313	99.71656	307.75599	8.80795	0.0956820	3.1941250641662
(587369)	18.2	295.92508	354.04014	88.29956	4.92466	0.2264858	2.5677062641662
(587370)	15.5	252.38178	51.43940	104.95213	17.42200	0.1907634	3.1158323641662
(587371)	16.4	16.30530	258.12161	124.58772	12.39952	0.0617771	3.1078400641663
(587372)	16.9	49.84223	47.34534	274.31783	9.08721	0.0369266	2.5788728641663
(587373)	16.9	347.28470	272.26633	124.14808	14.08915	0.1542088	3.1281181641663
(587374)	16.5	35.53868	230.94923	113.92607	10.28424	0.0883703	3.1509465641664
(587375)	17.1	237.68168	156.42573	103.88741	3.05987	0.0727498	2.9361491641664
(587376)	16.6	227.08381	3.25142	113.68116	2.46576	0.1055885	3.2660645641664
(587377)	16.4	349.81169	125.72978	281.48240	9.95388	0.0605238	3.1030030641665
(587378)	15.4	222.93675	233.89191	286.61758	25.49351	0.1894612	3.1585855641665
(587379)	18.6	197.24218	178.77748	315.04475	4.17307	0.1372297	2.2464714641665
(587380)	17.2	301.33205	144.71355	281.44982	9.27225	0.2060646	3.1424596641666
(587381)	17.8	149.74547	279.36136	285.51468	7.93410	0.0990937	2.6108960641666
(587382)	16.5	13.39162	276.13715	89.67140	7.11296	0.1125913	3.1101896641666
(587383)	17.2	270.67729	4.49003	92.08771	15.83649	0.1201712	2.5731611641666
(587384)	16.9	237.74893	165.79832	85.07730	9.65669	0.0147001	2.9389738641667
(587385)	17.5	304.99065	326.91068	84.76789	4.38731	0.0735171	2.5870002641667
(587386)	16.4	68.97475	245.88642	71.84838	1.83300	0.0967689	3.1416026641667
(587387)	16.5	218.91512	251.75589	269.39025	8.05317	0.0492044	3.1463101641668
(587388)	16.5	193.85516	106.57316	87.65306	5.57525	0.0825755	3.1509898641668
(587389)	19.0	246.07461	284.48048	155.94831	1.39652	0.1498225	2.2394237641669
(587390)	16.2	66.51071	359.27593	310.15314	9.54263	0.1729037	3.1533631641669
(587391)	17.4	335.03343	236.93098	90.60255	9.93738	0.1180191	2.6555544641669
(587392)	16.4	40.06370	232.55307	86.01192	9.88805	0.0455347	3.1889829641670
(587393)	17.6	350.85750	241.97466	104.60030	9.73689	0.0989962	2.6276632641670
(587394)	16.5	345.35677	260.60836	130.24616	10.89343	0.1166971	3.1567132641670
(587395)	15.9	180.33614	124.77640	76.15816	10.59187	0.0649013	3.0955987641671
(587396)	16.4	34.11070	36.40123	322.40489	6.58799	0.0700540	3.1386921641671
(587397)	16.8	327.17768	335.59721	80.76402	9.76361	0.0637496	2.5493490641672
(587398)	16.2	19.77054	276.92264	99.18775	2.45685	0.1483857	3.0573197641672
(587399)	15.9	233.77462	223.87015	263.65489	24.51884	0.0509856	3.1533247641673
(587400)	17.3	271.69258	216.13977	64.13849	2.93915	0.0229177	2.8598318641673
(587401)	17.0	273.48563	67.79673	103.20716	6.50662	0.0537338	2.9941498641674
(587402)	17.8	314.40027	260.95660	126.01262	4.13259	0.0356747	2.6302057641674
(587403)	16.4	146.68127	348.58206	255.09754	9.80251	0.0857575	3.0681240641674
(587404)	18.3	287.08184	314.45921	82.04371	1.71040	0.1897656	2.5971546641674
(587405)	16.7	249.53986	43.23439	38.19717	2.20972	0.0617107	3.2763470641675
(587406)	16.4	258.48626	233.01235	248.29071	15.67660	0.0736098	3.0870446641675
(587407)	16.8	243.80773	2.86084	90.85922	10.48508	0.0210729	3.2430928641675
(587408)	16.4	2.57389	57.38004	283.39155	7.68598	0.1224748	3.1516268641676
(587409)	17.6	178.97095	267.58490	226.39735	4.08132	0.1208355	2.6821447641676
(587410)	16.2	263.41296	146.24557	322.61168	15.76437	0.1669656	3.1737580641676
(587411)	17.4	166.35738	49.70513	99.55078	4.82616	0.0596818	2.6633130641676
(587412)	16.5	290.95150	150.29274	297.69667	9.52122	0.1020191	3.1756016641677
(587413)	17.8	249.90742	42.28562	86.37782	13.54546	0.2596348	2.5955226641677
(587414)	17.1	288.16424	103.71449	353.37907	7.35231	0.1644018	2.5579126641677
(587415)	17.3	5.57497	286.28379	95.69742	5.14847	0.1926149	2.5460013641678
(587416)	16.7	298.62510	239.00526	300.96527	9.81733	0.0671127	2.9898465641678
(587417)	17.8	290.39777	317.13267	106.89140	4.38215	0.1610775	2.5957127641678
(587418)	16.9	342.18681	318.68808	104.73837	2.93495	0.1448490	3.1075283641679
(587419)	17.1	347.80510	100.70297	278.92666	8.38416	0.1660071	2.5779993641679
(587420)	16.8	44.92388	190.03174	119.23245	12.31146	0.1891824	2.6057852641679
(587421)	17.7	191.14874	149.73814	256.00987	3.97035	0.1618533	2.7571338641680
(587422)	18.0	232.34771	132.29170	330.30269	1.23641	0.0286790	2.6359262641680
(587423)	17.7	64.88961	48.56294	243.37925	2.60858	0.0319646	2.6156470641680
(587424)	16.7	274.28197	329.69583	111.08152	8.26487	0.1990168	3.1963228641681
(587425)	16.3	353.44504	245.33630	129.46438	14.11971	0.1094642	3.1912788641681
(587426)	17.0	41.63634	198.93875	138.93568	7.98148	0.1458662	2.5733047641681
(587427)	18.2	277.81026	32.89655	68.48516	5.70463	0.2154152	2.5738928641681
(587428)	17.6	237.47010	110.58611	24.60742	4.46608	0.2633693	2.6049320641682
(587429)	18.0	315.33279	318.23720	107.57933	4.90691	0.1555323	2.5676770641682
(587430)	17.1	69.33189	7.07118	297.16877	13.03648	0.0766244	2.6058945641682
(587431)	18.5	338.96159	297.63909	72.33825	7.53095	0.2430063	2.1980632641683
(587432)	17.3	182.74219	67.18824	97.83765	13.83502	0.2051233	2.6996106641683
(587433)	17.5	193.12400	25.86680	143.96425	13.13501	0.0567422	2.6047615641683
(587434)	17.8	206.86764	304.84986	319.01861	2.60030	0.1538308	2.4823466641683
(587435)	17.1	296.72286	229.31751	107.18665	7.39971	0.0503014	2.7222146641684
(587436)	17.2	343.31274	352.98700	119.67718	3.77421	0.0469134	3.0368592641684
(587437)	17.5	356.42761	144.32974	238.26028	4.02783	0.2045875	2.5499276641684
(587438)	16.7	286.42914	198.68308	275.21855	8.13308	0.0328213	3.1520262641685
(587439)	16.5	295.59848	146.91047	285.22555	9.50234	0.0413400	3.1897826641685
(587440)	18.0	4.34456	101.58059	207.96246	7.42325	0.1890609	2.7098318641685
(587441)	17.8	33.66303	177.87520	141.58178	1.66145	0.0427474	2.6189650641685

(587442)	17.7	284.61230	153.78990	291.55933	11.30194	0.2589362	2.5794248641686
(587443)	17.8	186.64354	95.61454	309.17553	3.12704	0.1064357	2.7698512641686
(587444)	17.7	83.63841	129.40788	126.36216	4.03811	0.0654397	2.6485917641686
(587445)	18.2	276.70420	260.92719	163.20973	2.12655	0.0735863	2.6297245641687
(587446)	17.4	204.91471	192.25170	331.94151	13.17998	0.1866353	2.6431058641687
(587447)	17.8	260.32292	52.37770	358.65798	1.41577	0.2101861	2.6501398641687
(587448)	18.6	195.70722	71.63618	64.95525	2.38480	0.1313206	2.2561592641688
(587449)	17.1	197.97766	199.45679	321.00842	13.54256	0.1354486	2.6324554641688
(587450)	16.8	312.70727	336.12017	79.10408	2.48907	0.1401966	3.1901283641688
(587451)	17.8	232.38338	89.14441	0.47418	4.99143	0.1157306	2.6709951641689
(587452)	17.0	18.10281	306.28007	112.62857	11.82041	0.0896400	3.0435187641689
(587453)	18.2	234.59055	48.39093	74.63469	1.20345	0.1157536	2.6212282641689
(587454)	16.9	347.39513	213.39974	152.66965	10.52944	0.1401065	2.6406770641689
(587455)	15.7	262.71810	36.71846	125.45268	7.36285	0.1547102	3.1352846641690
(587456)	17.4	25.77806	209.41529	119.96222	12.91068	0.1074705	2.6169800641691
(587457)	17.9	319.81095	296.72994	92.36341	3.00956	0.1262609	2.6223920641691
(587458)	17.7	90.88216	150.42279	95.96693	3.35887	0.0333215	2.6567739641692
(587459)	17.9	319.94449	328.94196	62.13890	2.72699	0.2207794	2.6000190641692
(587460)	17.3	15.14728	174.87792	150.02508	5.79910	0.0688564	2.6757032641692
(587461)	16.7	328.23459	300.81536	122.76247	5.12386	0.1358680	3.1759760641693
(587462)	16.8	65.46011	325.50975	325.05228	13.87535	0.1330828	2.6685467641693
(587463)	17.1	240.39155	41.87578	69.82012	5.55383	0.0505407	2.6597833641693
(587464)	17.3	302.90423	86.08864	350.36823	2.78353	0.1808031	2.5770110641694
(587465)	18.6	230.72751	279.36772	152.59286	1.96766	0.2352403	2.6710221641694
(587466)	17.8	132.41864	54.83247	138.06993	9.53026	0.0780068	2.6827844641694
(587467)	16.5	270.80195	114.51554	322.45224	21.45018	0.0474807	2.6595537641695
(587468)	16.9	23.65384	197.58470	127.11895	14.48571	0.1427840	2.6368853641695
(587469)	17.2	129.51385	71.02272	175.93072	3.62982	0.0817538	2.6245147641696
(587470)	16.8	85.78502	151.32575	120.85966	15.48571	0.1716286	2.6490356641696
(587471)	17.3	319.24343	123.23380	292.66950	3.16996	0.1615943	2.5961889641696
(587472)	18.1	150.84757	49.96990	133.58459	4.11163	0.0794802	2.2723762641697
(587473)	16.4	264.07946	16.40706	136.04863	6.09563	0.1324899	3.1620896641697
(587474)	17.0	302.60009	143.11461	338.17845	10.88341	0.1084389	3.1250124641698
(587475)	16.8	306.01209	323.98935	159.65356	10.68621	0.0616872	3.1400656641698
(587476)	18.8	86.50957	219.47353	352.92039	5.99375	0.0676234	2.2864266641698
(587477)	16.8	238.04171	203.07097	285.24086	21.21401	0.0585058	2.5788207641699
(587478)	17.8	320.93058	307.17253	114.58985	5.12319	0.1984975	2.5723241641699
(587479)	17.1	349.57661	266.77483	120.32969	10.32629	0.2036346	2.5699688641699
(587480)	17.3	83.51928	332.13985	285.30983	4.27684	0.0861602	2.6581531641699
(587481)	18.6	325.68787	89.42708	315.13074	6.06102	0.1611113	2.2176181641700
(587482)	17.6	166.04875	77.37866	87.68487	7.20095	0.1511770	2.6335868641700
(587483)	16.2	349.69183	109.02237	279.88892	8.80699	0.0695561	3.1199077641700
(587484)	18.1	206.11996	147.51265	355.65647	4.23179	0.0844040	2.6636061641700
(587485)	18.1	235.46219	313.76020	136.87940	15.57065	0.0604998	2.6724585641701
(587486)	18.0	193.07060	3.35803	134.84004	5.33120	0.0488639	2.6849465641701
(587487)	18.7	176.62775	328.86920	121.29195	6.44345	0.1292083	2.3113013641701
(587488)	16.7	255.32948	174.42587	338.38820	8.48953	0.0576925	3.1702643641701
(587489)	17.8	255.71674	181.56903	258.55322	2.31767	0.1560760	2.6454004641702
(587490)	17.9	222.95632	322.44636	177.42602	3.98888	0.0574933	2.6416106641702
(587491)	16.6	49.13161	192.61037	144.89579	9.43605	0.0383307	3.2010883641702
(587492)	17.0	99.66077	357.58379	252.50057	2.64581	0.1519838	2.6578441641702
(587493)	16.6	345.24149	147.12597	288.15531	7.93600	0.0061787	3.1141946641703
(587494)	17.6	283.08041	163.01018	269.69305	2.05235	0.1161872	2.6154945641703
(587495)	18.6	304.27654	80.73622	328.75715	9.42366	0.1234084	2.2337358641704
(587496)	16.8	305.84278	99.80568	324.53637	13.80205	0.1711809	3.1857135641704
(587497)	17.2	319.61279	201.91007	189.83526	3.75091	0.1477263	2.6005534641704
(587498)	16.4	136.32423	168.99945	163.87384	1.24984	0.1615586	3.0169024641705
(587499)	19.3	267.03687	156.78257	298.50047	2.40160	0.1479175	2.2216524641705
(587500)	17.7	249.06544	158.65388	312.96072	3.55566	0.1337831	2.6178564641706
(587501)	16.4	44.17338	179.28754	141.13063	12.52620	0.0333464	3.2442851641706
(587502)	17.6	312.63815	249.87739	128.32692	9.23579	0.0922453	2.6521982641706
(587503)	17.9	92.84222	10.42352	219.39053	6.38351	0.1459789	2.3029173641707
(587504)	16.2	252.57016	327.86760	161.43805	19.01012	0.0858239	3.2239516641707
(587505)	17.5	94.67392	153.21304	125.92485	9.51529	0.0486926	2.5421722641707
(587506)	16.4	166.50891	57.64133	151.79610	18.09367	0.0205612	3.2336529641708
(587507)	18.9	77.95201	103.60426	124.48745	4.08775	0.1223085	2.2932272641708
(587508)	17.6	267.28817	293.53763	128.47140	4.59881	0.0734289	2.6821470641708
(587509)	18.1	207.36355	8.20674	110.01637	3.80967	0.0538861	2.6938255641709
(587510)	17.8	348.49926	226.10079	134.25633	5.48717	0.1030896	2.6338467641709
(587511)	16.0	351.09104	232.25819	148.16631	14.83180	0.1303784	3.2204981641709
(587512)	17.7	74.93275	108.81267	133.34179	15.54073	0.0195792	2.6866267641709
(587513)	17.6	198.68130	146.80876	6.32169	9.24865	0.0358674	2.6628581641710
(587514)	17.8	112.48942	200.00908	359.66554	4.74933	0.0460087	2.7322224641710
(587515)	16.9	89.27344	118.56986	129.18008	14.79213	0.1365285	2.7007251641710
(587516)	17.3	298.16937	289.96929	140.50890	15.04866	0.0938635	2.6035016641711
(587517)	16.6	264.07130	210.32744	257.06982	12.69447	0.2116148	2.6156996641711
(587518)	18.2	192.16175	1.22879	132.37488	5.26807	0.0639364	2.7006763641712
(587519)	18.2	119.94065	171.08585	39.80622	5.38571	0.0765653	2.2836099641712
(587520)	16.5	326.43488	246.09869	188.98980	9.33698	0.0653609	3.1768979641712
(587521)	17.5	185.13378	61.54885	98.42442	1.35198	0.0376923	2.6899523641713
(587522)	17.4	118.05834	222.91335	357.13290	9.03782	0.1292291	2.7252715641713
(587523)	17.2	323.36551	244.15743	167.63376	5.52218	0.2484793	2.5883976641713
(587524)	17.9	48.67460	326.20293	319.61673	3.83788	0.0139984	2.6859833641714
(587525)	17.8	119.68001	248.61727	309.14332	3.64699	0.0150868	2.7083543641714
(587526)	13.9	319.66013	152.85093	154.28742	31.12268	0.0887156	5.2797341641714
(587527)	17.3	284.83858	299.02387	114.85420	4.28316	0.0725946	2.6733035641715
(587528)	17.5	281.41630	320.27488	127.20425	6.04514	0.1692370	2.6236708641715
(587529)	17.1	41.47057	117.80823	335.79058	9.59276	0.0724877	3.0152368641715
(587530)	18.1	109.89200	216.35163	339.43867	4.47964	0.0880117	2.3155782641716
(587531)	16.6	294.74829	106.33730	348.54185	14.53684	0.0304244	2.6281338641716
(587532)	17.2	96.98057	292.54044	292.21577	2.29449	0.1353317	2.7493362641716
(587533)	17.9	142.57276	276.61575	290.49899	3.18993	0.1404434	2.6981605641717
(587534)	18.5	122.35798	180.11266	3.43015	3.44823	0.1556983	2.3096935641717
(587535)	18.1	247.89134	138.07630	345.94845	4.34905	0.0699829	2.2361110641717
(587536)	17.6	68.29299	125.86081	141.37691	6.25045	0.0461702	2.7095553641718
(587537)	17.6	104.48981	212.05235	27.71616	5.59401	0.1135986	2.7075093641718
(587538)	17.0	197.24843	117.16395	149.11970	3.77357	0.0687586	3.1119424641718
(587539)	17.8	336.54114	220.13280	147.99620	5.54162	0.0047645	2.6840293641719
(587540)	17.5	235.39035	78.69517	11.01518	14.00939	0.0950518	2.7117419641719
(587541)	17.3	71.73159	245.47577	20.53575	9.34083	0.1117692	2.7333796641719
(587542)	18.2	138.34842	212.08760	320.48079	5.19183	0.2500820	2.3066080641720
(587543)	17.4	207.88318	148.72641	8.05441	13.88032	0.1890217	2.6331588641720
(587544)	17.9	147.07322	177.18253	28.11007	4.44863	0.0424502	2.6677532641720
(587545)	18.9	144.51382	174.11648	359.64636	2.33659	0.1622655	2.2893646641721

(587546)	18.9	249.64492	257.96552	201.26594	4.25855	0.0929545	2.2589073641721
(587547)	18.5	74.81784	48.63119	197.05188	2.37981	0.1650259	2.3074450641721
(587548)	17.7	264.17496	0.92854	101.19108	4.18580	0.0364760	2.6685952641721
(587549)	18.0	197.07176	348.03756	188.25438	4.79546	0.0754103	2.6546510641722
(587550)	16.5	219.20026	120.81153	17.28262	9.87237	0.0807289	3.3341774641722
(587551)	17.5	24.28751	143.70376	164.61207	9.99253	0.2001145	2.7313255641722
(587552)	17.3	334.75257	348.92206	6.23468	6.44114	0.0421056	2.7138619641722
(587553)	17.9	286.06098	93.96120	179.66837	1.27503	0.1608134	2.4416235641723
(587554)	17.8	234.41522	170.80642	358.21329	3.02809	0.0518851	2.6088772641723
(587555)	17.1	2.95961	187.50051	176.67863	21.96814	0.0628950	2.6738649641723
(587556)	18.4	76.88301	184.27842	41.01066	1.89673	0.2231156	2.3146796641724
(587557)	18.9	281.45883	98.61364	344.37312	5.58756	0.1191536	2.2321313641724
(587558)	17.1	140.56627	319.27956	24.98355	2.48894	0.2234267	2.5239399641724
(587559)	17.4	141.49011	209.34479	96.58386	2.77583	0.1782422	2.5694940641725
(587560)	17.7	125.13500	155.24509	34.25213	3.87472	0.1255406	2.7400019641725
(587561)	17.7	118.76481	142.42083	42.12838	4.00518	0.1258093	2.7509922641725
(587562)	17.5	75.17889	100.00460	157.19916	14.18055	0.0869670	2.7149099641726
(587563)	17.6	224.82292	333.30598	134.38835	5.99386	0.0621400	2.6910258641726
(587564)	17.2	218.67926	172.31861	336.86159	10.98518	0.1624427	2.6478066641726
(587565)	17.3	200.25220	130.03862	11.94027	13.61046	0.2017362	2.6886908641727
(587566)	19.1	322.02679	274.29982	115.44261	2.98336	0.1076844	2.2530583641727
(587567)	18.6	81.15770	77.90222	137.92467	3.22882	0.1425688	2.3100133641727
(587568)	19.0	98.47155	212.39452	357.90993	0.42418	0.1484271	2.3142239641728
(587569)	15.9	304.36516	95.30417	3.01489	25.30853	0.2342497	3.1674336641728
(587570)	18.1	84.56201	37.04565	30.80718	2.91527	0.1920226	2.4540345641728
(587571)	18.6	147.99582	148.50661	35.86142	4.35637	0.1392521	2.2993339641729
(587572)	18.6	81.58356	65.17581	181.60701	2.42062	0.1791609	2.3212889641729
(587573)	18.2	40.19266	181.02097	122.40897	2.98163	0.2330138	2.3229557641729
(587574)	16.7	177.31023	51.45618	194.13003	9.93373	0.0342264	3.2337891641730
(587575)	17.5	171.69626	273.73391	247.41135	2.31697	0.1146447	2.7292200641730
(587576)	17.1	288.95490	161.77373	13.55217	5.26665	0.1090995	3.1270832641730
(587577)	17.9	101.22269	32.68353	198.67210	5.56123	0.0803413	2.7510243641730
(587578)	17.0	208.37402	117.87068	51.19129	25.39253	0.1750585	2.6582934641731
(587579)	18.1	168.01554	358.49007	151.76347	7.05552	0.1498190	2.2996194641731
(587580)	18.7	132.63171	123.59421	57.92210	4.19989	0.1587963	2.3162604641732
(587581)	17.5	279.09063	77.66132	66.87018	3.99974	0.0377266	2.6080302641732
(587582)	17.7	223.95257	69.75534	186.38745	5.15384	0.1092381	2.5374309641732
(587583)	17.8	82.56704	101.33376	130.18655	6.97574	0.2051496	2.3288730641733
(587584)	17.7	264.62952	311.90924	170.72237	13.57697	0.2482037	2.6164302641733
(587585)	18.7	184.16871	328.66647	176.16825	5.21788	0.1460071	2.2977565641733
(587586)	17.4	85.77349	282.47905	321.69456	2.40193	0.1425806	2.7450952641734
(587587)	17.7	81.25571	34.95447	208.12780	7.63255	0.1688884	2.7752870641734
(587588)	18.0	59.02450	284.49826	0.61035	6.18823	0.1075935	2.2923201641734
(587589)	19.3	216.45980	63.44371	200.37381	3.83077	0.2481332	2.1959918641735
(587590)	17.3	146.25205	52.87204	180.56943	6.42700	0.0226663	2.6621945641735
(587591)	17.9	72.05561	199.94717	79.74428	5.56814	0.1362095	2.3098784641735
(587592)	17.9	313.33636	351.71617	226.62670	5.00332	0.1357361	2.4920867641736
(587593)	16.6	44.29280	219.87715	99.30905	14.45063	0.0988214	2.7477688641736
(587594)	17.8	105.81146	43.43961	204.16565	4.38953	0.0578655	2.7074314641736
(587595)	17.1	15.36454	172.40686	148.25596	6.02164	0.0852275	2.7824487641737
(587596)	18.8	210.05224	351.93686	148.75217	2.45942	0.1385937	2.2700952641737
(587597)	18.1	164.90492	327.79922	211.60174	6.07292	0.0607014	2.3061056641737
(587598)	17.7	49.96929	181.70057	86.21182	6.98119	0.1388873	2.3405203641738
(587599)	17.8	127.03670	131.49555	124.69072	4.96118	0.1294220	2.2708340641738
(587600)	17.6	10.90298	158.44708	222.38623	4.59830	0.0879937	2.6841536641739
(587601)	17.3	191.88010	128.71104	39.90378	5.37725	0.2185131	2.6942666641739
(587602)	17.6	191.17378	28.89453	143.43221	5.83994	0.0669721	2.7042252641739
(587603)	17.5	226.13161	283.83612	206.44677	11.77194	0.1326085	2.7032591641740
(587604)	18.7	107.91582	167.56248	50.71726	1.88839	0.1287838	2.3244850641740
(587605)	17.9	137.29123	212.90708	63.77168	3.71681	0.0773168	2.6531731641740
(587606)	17.6	82.91645	173.59932	85.43490	15.38431	0.1664782	2.7715593641741
(587607)	18.3	99.36444	208.08124	21.60961	2.02778	0.1074936	2.3263024641741
(587608)	18.7	109.65711	4.66347	198.60796	4.34945	0.1632232	2.3364597641741
(587609)	18.2	167.22099	27.30921	144.89629	2.99888	0.1614646	2.2932217641742
(587610)	17.9	255.07950	72.76139	189.95526	7.33981	0.2019343	2.5323991641742
(587611)	18.1	33.82618	227.67779	88.98998	6.91954	0.1842087	2.3256200641742
(587612)	19.0	283.25855	27.59352	55.48818	2.62185	0.2020207	2.2822004641743
(587613)	18.2	223.77316	82.07033	208.25687	3.69129	0.2436743	2.5451162641743
(587614)	18.2	107.31036	130.15828	84.40213	7.03256	0.1141998	2.3303644641743
(587615)	18.0	109.19898	227.14260	328.61238	3.17634	0.1307703	2.3305308641743
(587616)	18.3	65.89853	121.20640	147.26323	3.56748	0.1512379	2.3258970641744
(587617)	18.1	154.05175	231.23570	70.64864	1.79736	0.1170710	2.6157460641744
(587618)	18.2	45.51728	49.04685	235.70122	5.11834	0.1226030	2.3389721641744
(587619)	17.1	304.17862	188.35286	226.78475	4.94813	0.0409430	2.7427140641745
(587620)	18.2	157.69621	141.42498	50.23112	7.39346	0.0539938	2.3025337641745
(587621)	18.7	62.69145	58.86896	103.03359	2.49702	0.1211253	2.4281368641745
(587622)	18.7	191.30992	301.00832	210.78941	3.72112	0.0851295	2.3066644641746
(587623)	17.5	149.93327	9.75751	207.97761	4.63301	0.0997282	2.7173400641746
(587624)	17.1	104.71679	134.09743	80.35416	15.46726	0.1868908	2.7930751641746
(587625)	16.5	301.20859	21.85417	81.41209	22.73646	0.0310818	2.6737502641747
(587626)	17.3	36.67318	66.66597	228.63459	19.97974	0.1266763	2.8077260641747
(587627)	18.1	137.90981	70.55675	127.73151	7.60299	0.0564544	2.3270671641747
(587628)	16.9	111.40027	335.30017	239.25384	25.89622	0.1916831	2.7780484641748
(587629)	17.6	246.02506	270.54073	211.13933	10.29627	0.0511655	2.2908034641748
(587630)	18.4	30.84841	126.96615	110.82061	3.14583	0.1247756	2.3905531641748
(587631)	17.5	300.32655	29.75302	59.43618	7.23147	0.1060235	2.7004545641749
(587632)	17.4	32.61811	177.55797	123.30239	13.89734	0.1680891	2.3403667641749
(587633)	17.3	46.43804	38.18553	226.86447	12.63014	0.1664153	2.8016900641749
(587634)	17.4	323.30561	336.86247	84.74246	6.82006	0.0301110	2.7132691641750
(587635)	17.3	313.75938	26.78723	70.48558	6.15225	0.1193739	2.6470380641750
(587636)	17.8	229.22314	274.93964	203.45508	2.79646	0.0401898	2.7649206641750
(587637)	18.6	174.62617	95.61604	59.27689	6.70216	0.1181068	2.3041836641751
(587638)	17.4	200.77575	246.86421	240.61751	16.98365	0.0390828	2.7979632641751
(587639)	17.6	36.96038	163.12213	141.80919	4.97824	0.0582358	2.7892123641751
(587640)	17.4	152.28277	271.40635	248.49672	3.83633	0.0907934	2.8158555641751
(587641)	17.1	112.59550	335.85941	259.30494	6.80018	0.1711972	2.7661045641752
(587642)	18.7	75.25480	230.16197	18.30313	1.69455	0.1490658	2.3611009641752
(587643)	18.7	309.24975	178.56638	206.64741	0.85492	0.1931814	2.3945717641752
(587644)	18.2	181.64656	237.61289	281.51196	1.55272	0.1276578	2.3541781641753
(587645)	14.7	290.64400	306.38781	146.04352	2.41395	0.0704192	5.3380966641753
(587646)	17.6	318.79998	251.23394	140.89454	2.78821	0.0716216	2.8600305641753
(587647)	16.9	49.54886	187.46969	154.44507	4.66797	0.1120872	2.8034681641754
(587648)	17.1	17.04369	320.06109	4.28072	24.58290	0.2271769	2.3900341641754
(587649)	18.3	176.57819	78.28911	193.63929	2.02537	0.2110305	2.2536877641755

(587650)	18.6	119.92071	106.00428	177.21144	2.09346	0.2077091	2.3004084641755
(587651)	17.1	332.38037	253.11707	134.97849	2.78605	0.0797122	2.8896201641755
(587652)	17.8	49.13644	186.93768	114.82058	4.05020	0.1369197	2.3677877641756
(587653)	17.8	5.25115	245.07840	115.82911	5.11600	0.1532894	2.3672553641756
(587654)	17.8	339.65295	258.36507	115.98105	3.38522	0.1880552	2.3878518641757
(587655)	17.8	350.35186	288.73988	57.22138	4.09562	0.2727558	2.3922862641757
(587656)	17.7	349.82026	262.16185	100.70360	3.32776	0.2238127	2.3906528641757
(587657)	18.2	21.32630	209.55016	120.53009	6.31623	0.2351647	2.3747878641758
(587658)	18.0	17.65539	134.89788	178.30672	1.23116	0.1383277	2.3977086641758
(587659)	17.3	188.63773	236.20309	152.17510	1.34863	0.1771372	3.1726592641758
(587660)	18.6	3.05593	41.47237	299.12506	1.64577	0.2364599	2.3915856641759
(587661)	16.8	358.33141	77.23458	291.64999	1.03879	0.0814617	2.8668686641759
(587662)	17.6	48.23474	189.35531	138.93222	7.18532	0.1633239	2.3381611641759
(587663)	18.2	19.80130	75.16409	249.15281	1.78872	0.2012031	2.3782700641760
(587664)	17.2	83.86069	37.27899	202.44025	4.38709	0.0530156	2.9356041641760
(587665)	18.0	20.62160	235.99446	90.09458	2.57698	0.2039601	2.3812530641760
(587666)	18.1	36.55850	19.04991	307.13160	10.06370	0.2332579	2.3662391641761
(587667)	16.8	267.33941	293.36607	158.93797	6.91001	0.0289501	2.8664360641761
(587668)	16.5	28.99532	29.58807	309.00030	10.43220	0.1073997	2.8580874641761
(587669)	18.1	17.06986	17.28609	310.72952	4.79486	0.1631847	2.3918855641762
(587670)	7.7	28.52312	248.37912	103.68978	2.11496	0.0319136	42.7536890641762
(587671)	17.7	303.10319	134.77181	278.59394	4.84665	0.1002373	2.3911312641762
(587672)	18.4	355.22342	219.73740	165.68179	4.28030	0.1484782	2.3676748641763
(587673)	18.2	276.93799	325.53955	115.92378	2.87672	0.1825933	2.4071718641763
(587674)	18.5	20.64891	143.59616	166.54821	1.13716	0.2189909	2.3989594641763
(587675)	17.3	4.95173	103.44445	233.98965	13.70934	0.1670404	2.8891765641763
(587676)	17.3	236.39812	282.77179	330.85153	11.80487	0.1507128	2.6343901641764
(587677)	17.4	8.53901	174.94417	143.35404	2.79791	0.0444139	2.9516297641764
(587678)	18.1	329.56726	328.22591	28.50326	1.54014	0.2050110	2.4262097641764
(587679)	18.4	70.72012	343.39616	278.92314	4.24696	0.2278220	2.3726219641764
(587680)	16.9	212.00038	152.78086	355.13132	8.36461	0.0585024	2.9256322641765
(587681)	17.8	29.57066	61.19992	267.83378	3.88178	0.2261693	2.3788047641765
(587682)	17.6	341.70340	19.34538	352.06791	1.48291	0.0854776	2.9189701641766
(587683)	18.2	67.81270	296.59046	323.04071	0.88910	0.1477541	2.4201686641766
(587684)	17.4	182.50477	323.57333	188.68655	9.40501	0.0082860	2.9713021641766
(587685)	18.3	302.70538	184.87347	11.29410	2.66861	0.0520937	2.2566434641767
(587686)	17.3	268.19751	256.50528	182.06723	4.61289	0.1478039	2.9767929641767
(587687)	18.5	138.40879	157.96708	18.56882	3.03392	0.0848986	2.4585291641768
(587688)	17.1	248.29929	48.91987	24.03645	1.06283	0.0445166	3.0026426641768
(587689)	17.9	68.02566	217.42569	156.07741	0.88316	0.0862906	2.7628613641768
(587690)	18.2	332.22696	63.40323	289.70389	1.87759	0.1926007	2.4236997641769
(587691)	17.9	329.40609	288.08935	89.58434	2.85534	0.1885019	2.4139119641769
(587692)	17.7	332.31666	314.14561	26.09598	0.73468	0.1794318	2.9806176641769
(587693)	18.0	6.87382	3.44901	329.38449	5.53715	0.1796959	2.4026684641770
(587694)	17.3	333.36552	159.49768	236.74281	10.91654	0.1864544	2.3926250641770
(587695)	17.6	301.79345	340.63624	25.83888	4.06323	0.1594607	3.0279161641770
(587696)	17.4	349.24336	177.69279	192.90002	11.79688	0.0699132	2.9177041641771
(587697)	18.2	41.22623	82.82439	214.34256	5.59660	0.1462589	2.4128149641771
(587698)	17.2	106.42530	128.90020	142.17079	2.78034	0.0243629	2.8684245641771
(587699)	17.1	350.11563	316.72365	95.60864	3.30622	0.0594543	2.8629434641772
(587700)	18.2	49.28379	310.93055	341.35666	6.35789	0.1184881	2.3830500641772
(587701)	18.4	307.65269	33.02686	21.48366	1.69979	0.1628103	2.4130417641772
(587702)	19.2	26.37899	47.31754	27.52927	0.70922	0.1786042	2.3138106641773
(587703)	18.3	41.11688	285.41144	17.24193	14.34971	0.1152828	2.4184289641773
(587704)	18.2	112.83057	80.82481	139.85476	2.05378	0.1372059	2.4143136641773
(587705)	17.0	32.82954	223.76198	117.22590	3.23893	0.0720017	2.8797533641774
(587706)	19.4	215.24073	296.24949	190.19556	22.11989	0.0860269	1.8436873641774
(587707)	17.9	117.26561	126.26578	66.28161	2.70655	0.1127835	2.4620930641774
(587708)	17.3	353.95325	326.80275	17.22029	4.89628	0.1115962	2.9611891641775
(587709)	16.6	329.58645	177.30528	206.33854	1.76007	0.0553887	2.9168447641775
(587710)	17.2	36.82369	68.05264	238.73066	1.11109	0.0617927	2.9056297641775
(587711)	19.3	265.09084	88.30924	358.28016	18.30552	0.1397661	1.8403415641776
(587712)	16.9	156.46235	143.52487	41.27927	2.67486	0.0503593	2.9460071641776
(587713)	16.8	43.41232	298.40603	38.76859	2.48499	0.0740782	2.8651088641776
(587714)	16.5	326.64016	31.81678	335.81275	1.84008	0.2248381	3.9616063641777
(587715)	18.9	258.47449	133.63835	215.41048	2.96683	0.1853087	2.5301501641777
(587716)	17.0	351.10698	135.07811	202.30607	14.87440	0.1296060	2.9669346641777
(587717)	16.6	261.14536	227.18514	215.25184	21.66478	0.2136937	3.0145223641778
(587718)	17.1	174.98907	67.12649	327.40752	5.38034	0.1590087	3.1966261641778
(587719)	17.6	334.27481	9.27432	14.17425	24.72417	0.1498504	2.4046504641778
(587720)	17.2	154.81351	58.12534	127.01816	2.53956	0.0522555	2.9375141641778
(587721)	18.0	57.40590	81.70702	201.87770	6.58567	0.1128321	2.3924877641779
(587722)	17.5	305.06722	336.15542	43.20926	3.41439	0.0717916	3.0093488641779
(587723)	18.6	6.40477	250.32780	69.79124	3.08938	0.2246992	2.4171270641779
(587724)	17.6	2.22522	132.23746	256.85920	3.80110	0.1115648	2.8688654641780
(587725)	18.3	358.02905	62.88648	321.37181	3.33116	0.1485417	2.3816794641780
(587726)	16.7	158.91288	133.91937	38.70149	10.28619	0.0566602	2.9881445641780
(587727)	16.3	342.73298	182.60662	162.35849	3.64681	0.2100745	3.9704795641780
(587728)	17.0	259.91607	256.88756	184.26472	9.56733	0.0693033	2.9901176641781
(587729)	17.8	280.48213	339.21292	86.84382	2.81734	0.1742803	2.9812778641781
(587730)	17.1	310.71330	207.50428	220.72029	17.29957	0.0970640	2.9347779641781
(587731)	17.8	17.48773	276.32001	55.05464	5.44073	0.1526870	2.4209832641781
(587732)	17.8	7.00014	33.61135	338.54195	6.02341	0.1046775	2.3845923641782
(587733)	18.2	281.22821	302.23768	125.68461	2.64517	0.1579143	2.4280323641782
(587734)	16.5	84.11235	225.43921	73.48298	16.87886	0.0930356	2.8821707641782
(587735)	17.4	269.60563	17.54654	73.78373	13.70478	0.1346405	2.4319547641783
(587736)	17.0	328.00506	290.51763	110.93023	11.73423	0.1398588	2.9378245641783
(587737)	17.0	170.37540	171.68184	15.80806	11.29849	0.0296334	2.9212350641784
(587738)	18.4	312.41647	34.23205	9.79145	1.64167	0.1791532	2.4085359641784
(587739)	18.4	204.14436	52.84151	78.36671	2.22789	0.1321648	2.4498883641784
(587740)	17.4	298.77383	167.20231	257.46667	0.90587	0.0445858	2.8967573641784
(587741)	18.0	52.36313	10.92608	267.32742	4.27379	0.1420649	2.4239013641785
(587742)	17.1	293.13573	165.46757	273.24772	20.78139	0.0587061	2.3825799641785
(587743)	16.7	216.06601	122.93701	350.41389	8.65747	0.0310825	3.0043301641785
(587744)	18.6	291.84136	25.41906	25.02559	3.05333	0.1705097	2.4369581641786
(587745)	17.4	113.12125	304.60697	84.23653	2.97252	0.0106299	2.6785893641786
(587746)	17.1	216.09563	291.23886	168.15248	11.23295	0.0696335	3.0028346641786
(587747)	18.2	316.11496	141.47491	255.54360	2.88203	0.1045285	2.4185463641786
(587748)	17.2	194.37361	131.16736	16.59582	10.06456	0.0427332	2.9818715641787
(587749)	17.5	300.08421	341.89696	95.92151	2.69653	0.1363502	2.9463834641787
(587750)	18.5	334.74901	293.17846	100.14826	3.80658	0.2283553	2.4027691641787
(587751)	18.0	159.04293	173.38708	125.86018	1.44877	0.2042105	2.2908830641788
(587752)	16.4	51.50821	46.26458	262.86509	12.24323	0.1733705	2.8838790641788
(587753)	17.9	333.43145	344.06291	50.05070	8.55545	0.1517840	2.4020088641788

(587754)	17.8	22.35107	308.90658	40.85219	7.34476	0.1873467	2.3846846641789
(587755)	17.3	328.97258	175.13135	236.13564	9.99363	0.0856539	2.9146940641789
(587756)	16.9	152.66431	96.06213	77.01071	15.86526	0.0786910	3.0315388641790
(587757)	17.5	302.41988	314.44446	117.46410	11.94107	0.1279687	2.9465714641790
(587758)	17.1	314.23904	251.00983	126.39693	13.21475	0.0929125	3.0209082641790
(587759)	16.4	20.82246	196.26229	142.97082	12.77186	0.0676336	2.9191123641790
(587760)	17.3	346.67878	268.34019	107.89692	2.26387	0.0264981	2.9367751641791
(587761)	17.2	6.25705	14.55078	342.60871	11.55307	0.0629540	2.9017926641791
(587762)	17.8	167.25278	16.92814	298.08060	1.95289	0.0882117	2.7280339641791
(587763)	18.0	226.61873	262.16724	237.86266	4.25077	0.1440058	2.4420140641792
(587764)	18.3	1.57855	320.32499	88.53205	3.67152	0.1541471	2.3674874641792
(587765)	17.0	229.30748	264.67162	186.52317	6.83071	0.0843662	3.0688633641792
(587766)	16.9	45.62576	208.76085	65.84742	6.77632	0.1619923	2.9731417641792
(587767)	16.8	86.24785	210.49082	37.74314	10.46823	0.0204887	2.9801965641793
(587768)	15.5	350.27510	207.05243	124.73811	1.01070	0.1635224	4.0142994641793
(587769)	16.9	198.66545	105.35635	119.13285	3.07732	0.0177255	2.8435014641793
(587770)	16.6	290.39353	355.82187	36.53297	14.62508	0.0382298	3.0306417641794
(587771)	16.8	45.59506	88.41085	213.66998	8.37216	0.0473890	2.9814662641794
(587772)	17.5	281.02061	155.10155	280.36878	6.20426	0.0938078	2.4064895641794
(587773)	15.6	18.43098	316.69429	9.88992	4.06949	0.2145464	3.9108442641795
(587774)	17.6	234.23682	202.35560	269.24342	3.92825	0.0172631	2.4096621641795
(587775)	18.3	112.97310	207.41153	214.38788	3.71870	0.0871328	2.6570105641795
(587776)	18.0	110.90928	340.48112	210.82161	4.92565	0.0686090	2.4867157641796
(587777)	17.5	286.12999	353.76414	74.90120	2.92509	0.1279994	2.9739034641796
(587778)	18.5	28.35818	176.31167	128.18843	2.13597	0.1897405	2.4243037641796
(587779)	19.3	41.03393	302.54490	348.69022	18.41169	0.0829532	1.8333638641797
(587780)	16.9	7.06678	30.22381	313.00066	10.32123	0.0768450	2.9018953641797
(587781)	16.6	352.97902	306.40292	332.67160	5.76351	0.0629210	3.1063740641797
(587782)	17.2	77.41107	265.21347	43.13622	11.12347	0.1143116	2.8670516641797
(587783)	17.4	299.64669	314.11422	93.51016	2.99956	0.0817257	2.9703417641798
(587784)	16.1	335.02535	118.83953	260.04523	10.34179	0.0653386	2.9498367641798
(587785)	18.1	0.80123	351.32479	70.48522	3.31155	0.1974618	2.3547978641798
(587786)	17.1	316.00178	219.81472	203.83541	5.59626	0.0857271	2.8797807641799
(587787)	16.5	49.21237	53.01830	246.78203	10.84007	0.0367379	2.9801399641799
(587788)	17.4	266.97187	125.28037	314.63104	2.83652	0.0863805	2.9908660641799
(587789)	17.6	10.75326	122.00504	34.08063	12.05648	0.1290999	2.6942007641800
(587790)	16.9	219.02208	238.77084	230.95938	12.65607	0.1048268	3.0834072641800
(587791)	17.4	204.96720	326.16404	182.63998	2.15046	0.0697950	2.9525157641800
(587792)	17.3	39.03663	244.04149	18.11285	2.45542	0.1638105	3.0588957641800
(587793)	17.2	53.75656	273.12133	37.32172	8.80692	0.0663675	2.9430744641801
(587794)	18.9	30.37213	64.49294	280.65222	1.94042	0.2430428	2.3845341641801
(587795)	17.8	208.94811	226.21283	278.17605	4.45019	0.0896403	2.4440039641801
(587796)	17.7	208.00209	258.87959	48.18582	2.66718	0.0827883	2.6620680641802
(587797)	16.9	167.81214	262.88548	245.68012	11.65711	0.1776032	3.1085179641802
(587798)	18.2	105.86586	197.81115	218.74443	9.92631	0.0514932	2.2580930641802
(587799)	17.6	3.34419	121.84739	214.98010	8.47032	0.1077751	2.9283880641803
(587800)	16.9	53.93347	58.64088	226.29831	13.75318	0.1006958	2.9823372641803
(587801)	17.4	280.82458	334.22623	113.90088	3.52010	0.0828982	2.9657525641803
(587802)	17.7	283.62024	25.79304	35.95924	1.94779	0.2055738	3.0146243641803
(587803)	17.2	6.63582	207.26439	107.06691	2.98753	0.0928078	2.9950765641804
(587804)	18.4	335.24388	350.44249	39.28299	5.49838	0.1364434	2.4311861641804
(587805)	16.9	349.46130	225.49742	152.75323	6.18105	0.2736899	2.9377284641804
(587806)	16.4	310.43333	165.85275	266.26557	8.81622	0.0751078	2.9428169641804
(587807)	16.9	291.25189	202.44482	188.37311	1.11868	0.1667173	3.0604400641805
(587808)	16.8	108.40580	345.84891	231.65759	13.66322	0.0810640	3.0505408641805
(587809)	17.9	351.96095	319.80767	85.98078	7.70039	0.0883398	2.3932783641805
(587810)	17.3	32.44285	3.72395	355.53902	1.55672	0.0314642	2.9168448641806
(587811)	17.2	76.15440	76.76516	310.57505	2.26405	0.1061266	2.7933783641806
(587812)	18.3	159.38820	63.01636	71.44872	5.39848	0.2048420	2.5514161641807
(587813)	17.1	295.82058	358.67550	57.33286	10.58868	0.1026830	3.0086760641807
(587814)	18.4	348.24047	169.10880	202.21866	3.38320	0.2068483	2.4144536641807
(587815)	16.9	302.28839	7.66866	44.84444	9.62090	0.0603867	3.0010543641807
(587816)	17.6	265.86640	12.19404	61.03705	1.93319	0.2045899	3.0543253641808
(587817)	16.2	78.26425	22.25501	258.44505	14.15113	0.1642726	2.4435596641808
(587818)	18.1	74.07779	244.56875	92.50106	3.08451	0.2256502	2.3427022641809
(587819)	16.7	27.05144	93.40919	222.27461	8.41259	0.0824334	3.0172928641809
(587820)	17.8	357.43067	269.28829	88.98869	5.46113	0.2168185	2.4236657641809
(587821)	16.4	52.08752	84.24161	206.27375	9.70858	0.1853734	2.9891327641809
(587822)	16.5	102.12794	190.74390	53.73619	6.40276	0.1291988	3.0256145641810
(587823)	16.5	298.52590	124.39655	359.86007	5.85705	0.0097270	2.8724531641810
(587824)	16.5	204.92025	242.57175	267.26938	11.86214	0.1258079	3.0275133641811
(587825)	17.1	249.89694	259.01283	189.92192	5.54076	0.0750399	3.0556287641811
(587826)	15.7	15.34146	275.48975	56.35019	14.46999	0.2314395	3.9512926641811
(587827)	17.2	144.16041	291.06954	43.67821	6.87900	0.0252681	2.7807091641812
(587828)	17.8	313.64441	299.20166	111.75026	2.59462	0.1769466	2.4393828641812
(587829)	16.7	42.99367	224.27618	88.12095	10.96509	0.0752102	2.9946343641812
(587830)	17.1	326.33476	300.26369	86.63545	11.14956	0.1082444	3.0111802641813
(587831)	15.8	121.82924	300.62422	275.91021	16.10127	0.2065770	3.1088557641813
(587832)	16.9	77.17140	190.53221	74.60612	8.71608	0.0217653	3.0179830641813
(587833)	16.2	142.11518	125.11412	64.87674	12.22442	0.0536656	3.0672879641814
(587834)	18.0	303.54536	42.88292	76.44059	7.14532	0.0544943	2.3826756641814
(587835)	16.1	34.88915	40.41789	206.27623	8.67353	0.0239679	3.1674866641814
(587836)	18.2	319.50112	222.03256	173.06408	5.10439	0.1092760	2.4474936641815
(587837)	17.9	137.16662	280.74565	242.58747	6.06821	0.1728638	2.5363469641815
(587838)	18.2	309.07962	153.59623	269.19269	6.22285	0.1131728	2.4182224641815
(587839)	18.1	33.81908	234.70068	46.45011	2.20723	0.0228079	2.4909242641816
(587840)	16.7	252.92282	196.64204	292.72809	11.03412	0.1359636	3.0346388641816
(587841)	16.3	21.24454	282.87964	93.81861	4.59219	0.0547387	3.0175649641816
(587842)	18.3	6.73062	288.00327	34.48822	1.58459	0.1833569	2.4564847641817
(587843)	17.2	165.13195	68.42249	96.73935	3.09175	0.0795524	3.0845408641817
(587844)	17.8	140.47050	282.08239	241.45316	11.80960	0.2137439	2.5672604641817
(587845)	16.5	11.17357	247.11150	110.14404	10.42031	0.1005801	2.9689126641818
(587846)	17.7	225.68846	80.08123	64.41041	3.36761	0.1374899	2.4525031641818
(587847)	15.6	292.05804	35.82498	86.80329	11.15956	0.2016574	3.9555938641818
(587848)	16.4	196.94630	242.71329	275.31662	9.28208	0.1057133	3.1146619641819
(587849)	16.5	334.54450	308.99195	68.99721	12.93297	0.0549811	2.9700250641819
(587850)	17.2	225.59103	192.70742	290.14999	6.68009	0.0981295	3.0322098641819
(587851)	17.2	242.06513	226.98315	248.84884	7.46540	0.0576870	2.9996083641820
(587852)	17.8	179.86903	89.00138	242.50459	5.19910	0.0472164	2.6737667641820
(587853)	17.9	359.16164	257.72060	100.98943	8.54955	0.2381930	2.4163259641820
(587854)	16.9	190.39918	296.35166	243.99763	5.15785	0.1048200	2.9718847641820
(587855)	17.3	203.76763	272.64477	248.82130	5.35272	0.1014387	2.9833021641821
(587856)	16.6	129.99960	26.27529	185.14194	10.43546	0.0868305	3.0087455641821
(587857)	16.6	157.75485	321.33054	237.57402	9.95808	0.2285537	3.0564420641821

(587858)	16.7	185.23505	57.98049	88.78676	10.75082	0.1160124	3.1267479641822
(587859)	16.7	188.20570	288.76871	228.05969	8.14010	0.0719237	3.0260908641822
(587860)	15.8	18.47417	202.93176	130.72606	9.20985	0.1983288	3.9819953641822
(587861)	17.9	162.28104	76.78585	75.44477	5.20571	0.1946370	2.5783746641823
(587862)	17.4	61.42027	97.78696	319.85817	4.16737	0.0386292	2.7757928641823
(587863)	16.9	247.17645	215.29315	226.83993	12.20322	0.0084772	3.0674805641823
(587864)	17.3	153.92534	353.75200	160.47484	3.59839	0.0726098	3.1195653641824
(587865)	18.9	64.93610	119.67887	263.22980	1.40657	0.2486554	2.3318780641824
(587866)	16.8	211.39829	250.26384	221.68581	8.87116	0.0785261	3.1051855641824
(587867)	17.2	58.68021	156.54139	260.90453	7.84708	0.0949417	2.7738258641824
(587868)	17.1	49.63944	351.04412	35.06174	6.48618	0.0782473	2.8350974641825
(587869)	16.4	107.97317	313.09068	272.64067	15.18302	0.1725173	2.5363890641825
(587870)	17.3	106.66362	123.88897	81.65745	14.40790	0.1269142	2.5341995641825
(587871)	18.1	301.30204	357.87475	85.23239	5.48644	0.1625964	2.4317301641826
(587872)	18.0	107.73657	243.14141	147.78682	3.03092	0.2173610	2.2872181641826
(587873)	16.9	220.65894	254.04328	242.55337	9.60808	0.1140770	3.0516424641826
(587874)	16.7	119.80271	32.87064	243.55112	9.63106	0.0132223	2.9609981641827
(587875)	16.9	240.87710	227.19528	246.68472	8.01874	0.0104642	3.0379426641827
(587876)	17.3	189.11518	255.60093	239.99052	6.41632	0.1308298	3.1271042641827
(587877)	17.7	10.04449	250.35435	83.91700	11.44939	0.2401459	2.4438139641828
(587878)	16.9	208.71324	12.34911	105.88648	18.82608	0.1458256	3.1556056641828
(587879)	17.3	273.48301	136.65336	298.66419	7.18012	0.0625591	3.0744066641828
(587880)	17.1	250.75162	39.12888	85.28227	11.60251	0.0718029	2.9835312641828
(587881)	16.4	12.43316	262.64281	91.11784	11.57169	0.1314684	3.0018282641828
(587882)	16.6	42.68834	279.01704	351.22487	1.99500	0.0519364	3.1533605641829
(587883)	17.6	242.29476	207.91907	299.97161	5.76468	0.0619780	2.4480977641829
(587884)	17.0	178.38042	208.99421	306.31021	9.27877	0.1678193	3.1525476641829
(587885)	16.8	194.23759	82.55799	60.28072	5.70543	0.0625381	3.1309334641830
(587886)	16.4	165.58585	222.65060	319.12071	9.48561	0.0538778	3.1134537641830
(587887)	16.6	322.34790	308.55673	99.74112	11.06586	0.1479563	3.0381828641830
(587888)	17.7	69.80341	242.11906	109.47603	6.53420	0.1301481	2.3581837641831
(587889)	16.7	308.13908	328.08473	89.86019	11.64825	0.2080366	2.9914105641831
(587890)	16.7	279.65481	199.83834	262.27458	9.75270	0.1045781	3.0206690641832
(587891)	16.7	279.44248	148.62630	287.01008	12.68614	0.0953710	3.0564965641832
(587892)	17.0	304.23324	170.96426	274.13765	10.67927	0.1276957	2.9912890641832
(587893)	17.0	299.48429	324.54080	110.62437	6.36146	0.1338731	3.0248911641832
(587894)	16.2	240.75795	110.63858	332.99982	10.36650	0.0542950	3.0006953641833
(587895)	16.8	98.15805	229.34511	7.74711	6.96156	0.1160535	2.8922068641833
(587896)	16.7	137.60184	105.01164	75.19191	10.64185	0.1400691	3.1044184641833
(587897)	17.5	46.13544	340.22222	15.56298	1.96003	0.1015349	2.9212819641833
(587898)	17.3	357.01176	251.93912	96.91028	5.76773	0.1596154	3.0102933641834
(587899)	16.9	257.47260	352.03082	109.40045	6.76273	0.1234697	3.0635998641834
(587900)	17.4	98.66677	263.97092	285.46904	10.84058	0.2337599	2.6213255641834
(587901)	16.5	123.17330	280.89485	304.32852	10.29779	0.0382743	3.1278290641835
(587902)	19.0	172.35329	140.61947	12.08724	1.63269	0.1264052	2.1633817641835
(587903)	16.9	328.06758	107.97019	285.87791	12.06754	0.1560242	3.0409283641835
(587904)	16.6	297.69480	95.40021	330.76235	10.50037	0.0870546	3.0776526641836
(587905)	17.9	104.31197	239.80801	300.14595	5.90545	0.1492773	2.6212746641836
(587906)	17.2	260.88107	136.54150	294.66890	2.08847	0.0926921	3.1386257641836
(587907)	16.8	239.11365	322.50459	148.54386	9.97716	0.0804080	3.1518091641836
(587908)	16.3	0.12631	245.17497	120.76014	11.91121	0.1329928	3.0439266641837
(587909)	17.5	130.33278	85.91065	114.94907	6.09440	0.1524014	2.5615645641837
(587910)	17.0	298.86535	292.67753	125.54994	12.35252	0.0905701	3.0833879641837
(587911)	16.5	0.29617	221.59595	127.40651	6.14849	0.1451815	3.0991777641838
(587912)	16.5	273.85402	86.71307	310.03453	7.07853	0.0497689	3.2002501641838
(587913)	18.3	22.04412	179.73608	131.51320	6.42064	0.1936066	2.5355283641838
(587914)	18.1	137.56892	188.67948	290.19733	3.17781	0.1069306	2.6397169641839
(587915)	16.7	273.89650	98.27590	313.08378	8.40971	0.0743833	3.1761850641839
(587916)	17.2	352.13605	143.45402	321.52553	1.08889	0.0548500	2.9250352641839
(587917)	17.6	97.39240	164.93427	48.72893	3.29832	0.0483411	2.5879423641839
(587918)	17.8	331.69780	76.08609	345.89531	5.23145	0.1885255	2.4456234641840
(587919)	16.6	353.78517	268.37024	103.33594	10.67053	0.1115859	3.0688057641840
(587920)	16.9	286.78393	310.85555	127.28048	6.59333	0.1335389	3.0908240641841
(587921)	16.9	212.21002	346.32556	140.75533	6.27450	0.0798149	3.1421412641841
(587922)	16.7	249.13001	134.13187	348.83201	5.85714	0.0821723	3.0789520641841
(587923)	16.3	19.09416	228.97945	144.81939	12.10608	0.0729261	3.0794835641841
(587924)	16.8	260.02806	113.50173	331.57229	9.61033	0.0484086	3.1669545641842
(587925)	16.9	357.33136	277.71220	118.24927	11.86455	0.1112543	3.0320839641842
(587926)	17.0	144.04658	101.35958	119.30007	11.57433	0.0319742	3.0905495641843
(587927)	16.8	275.56362	117.74578	324.02976	8.89922	0.0134616	3.1205554641843
(587928)	17.4	277.13621	353.31339	78.78974	2.29802	0.1523014	3.1114645641843
(587929)	16.9	278.63458	126.34666	309.92632	9.03523	0.0708096	3.0816863641843
(587930)	17.3	272.94764	103.03565	332.67637	13.05402	0.1705312	3.1241656641844
(587931)	16.7	152.72206	227.66961	324.89838	10.38082	0.1241138	3.1376314641844
(587932)	16.8	98.58830	0.07183	231.71907	3.32125	0.1846013	3.2247421641844
(587933)	16.2	88.44066	134.10576	144.83140	17.60968	0.1407333	3.1323748641844
(587934)	17.2	294.02668	113.90211	314.48436	4.41065	0.1132867	3.0719609641845
(587935)	17.6	103.95699	248.70698	315.31104	4.48982	0.1739545	2.6058918641845
(587936)	17.9	125.09135	45.07635	138.57555	5.02977	0.1621070	2.5906387641846
(587937)	16.3	157.12038	261.06832	308.46923	11.69995	0.1298327	3.1373874641846
(587938)	15.8	276.70488	167.70395	309.68461	14.14307	0.1221174	3.0403016641846
(587939)	18.5	303.24356	59.55731	16.85898	0.34967	0.1449852	2.4704921641847
(587940)	17.1	3.95941	325.23845	60.50027	2.14155	0.1784613	3.0191882641847
(587941)	18.1	3.86031	165.42298	128.81704	7.59985	0.1396259	2.6127796641847
(587942)	18.4	33.35145	300.22547	325.50856	5.65006	0.1437192	2.2045580641847
(587943)	16.3	183.06516	238.54078	306.27807	21.96198	0.0926289	3.1221373641848
(587944)	17.0	231.55496	166.35115	314.76709	12.58315	0.0493220	3.1287285641848
(587945)	17.2	257.63315	335.05418	141.87256	17.11779	0.0327414	3.0786596641848
(587946)	17.0	321.77050	85.30084	306.46317	6.90528	0.0790037	3.1148769641848
(587947)	17.0	262.49308	279.68178	147.63728	9.51742	0.0566001	3.1871913641849
(587948)	16.1	107.13294	286.77126	323.32643	18.23407	0.1220241	3.1627252641849
(587949)	16.4	260.07800	312.17251	145.03077	9.54354	0.0439846	3.1729982641849
(587950)	18.3	147.37059	283.87261	113.98553	4.49857	0.1342380	2.2726187641849
(587951)	15.8	339.92131	336.32934	122.69589	6.82745	0.1240384	3.9490842641850
(587952)	16.8	102.02341	274.33062	345.05780	14.91001	0.0617912	3.1743948641850
(587953)	19.1	189.79978	357.15221	161.56685	24.19859	0.0343308	1.8900201641850
(587954)	18.0	267.81823	116.99880	343.16263	11.67038	0.1140641	2.5133808641851
(587955)	16.6	216.57970	348.33468	147.79206	12.57895	0.0408827	3.1779341641851
(587956)	17.0	248.94350	316.89404	147.77454	11.41748	0.0871576	3.1643662641851
(587957)	18.5	302.00171	230.50843	169.75714	20.45869	0.0662973	1.8951089641851
(587958)	16.4	324.72714	305.33475	134.21249	10.78409	0.0737172	3.0213842641852
(587959)	16.5	55.52272	312.25634	342.18055	7.92658	0.0937470	3.2029354641852
(587960)	16.7	335.02476	245.54737	157.43508	10.42938	0.1487594	3.0842074641852
(587961)	18.9	83.01274	76.48947	163.14219	4.48052	0.0997366	2.1928235641853

(587962)	18.1	27.62009	189.29940	92.80688	3.18687	0.1678072	2.2152140641853
(587963)	18.9	146.45596	86.37594	71.79511	1.48425	0.0982565	2.2047952641854
(587964)	16.2	76.39732	290.44819	340.99739	15.58835	0.1291733	3.2125377641854
(587965)	17.0	261.53071	152.81221	309.74548	5.98026	0.1277988	3.0741928641854
(587966)	18.0	111.87407	211.15575	343.39117	1.50398	0.1335246	2.6314272641854
(587967)	16.8	328.55332	57.60890	354.10359	8.54724	0.0364147	3.1208469641855
(587968)	16.7	247.27343	112.68696	332.85640	15.46646	0.2121838	3.1553862641855
(587969)	17.8	208.79632	146.52374	125.31229	5.85047	0.1860060	2.4195870641855
(587970)	16.6	333.73453	38.57251	3.65998	5.38571	0.1521798	3.1234200641856
(587971)	16.9	204.77190	29.67790	137.04409	11.82782	0.0637025	3.0998637641856
(587972)	16.6	252.26307	321.89061	135.40138	10.20768	0.0399775	3.1707395641856
(587973)	16.1	150.06290	267.64885	319.31838	12.64081	0.0469039	3.1185760641857
(587974)	17.2	176.13193	64.52356	123.47249	2.93686	0.1061732	3.0825664641857
(587975)	17.1	228.59166	27.82579	117.15433	10.28885	0.0523440	3.0487806641857
(587976)	16.9	269.68372	265.07564	167.90909	12.02968	0.1219677	3.1713906641857
(587977)	16.9	204.30540	175.89029	355.66360	8.62296	0.0759123	3.1293820641858
(587978)	19.1	92.07754	214.48820	358.81680	4.53122	0.0598241	2.2049419641858
(587979)	16.7	134.48901	236.27390	349.45256	14.72899	0.0472078	3.1434068641858
(587980)	18.5	33.53631	291.76480	149.10230	2.55225	0.1659691	2.3775026641858
(587981)	19.1	320.27649	43.20396	333.40215	16.44165	0.0958620	1.8860029641859
(587982)	17.0	285.97631	89.83129	342.48535	16.12495	0.0854690	3.1455157641859
(587983)	17.5	101.99629	163.50337	54.47084	1.53252	0.1116071	2.6281132641859
(587984)	18.2	105.93312	21.61123	167.57970	6.12831	0.1805155	2.6485936641860
(587985)	16.4	196.79280	167.23260	20.47602	14.33951	0.1505389	3.1512278641860
(587986)	18.4	173.26145	304.34216	142.14700	4.58166	0.1678980	2.6393701641860
(587987)	16.3	263.48669	314.47608	180.22962	7.26064	0.1094686	3.0570836641860
(587988)	18.5	130.89559	88.74208	101.75578	3.41687	0.1169887	2.2073882641861
(587989)	17.5	140.20115	6.18811	159.57357	17.99553	0.1684286	2.6339285641861
(587990)	17.2	319.05413	247.72090	177.03965	16.93698	0.0778625	3.1066276641861
(587991)	16.9	173.48477	185.29277	332.32148	7.55230	0.0694418	3.2065277641862
(587992)	18.7	59.04213	267.79643	353.57631	19.71247	0.0425494	1.9145985641862
(587993)	16.8	237.65535	151.43591	359.57732	17.04836	0.1769169	3.0894233641862
(587994)	16.2	69.63840	315.10504	333.82613	8.33310	0.1264326	3.1558339641863
(587995)	17.5	48.68835	242.21300	36.59610	5.52644	0.1749968	2.6228271641863
(587996)	17.0	267.44905	69.16334	353.94221	12.56927	0.2938341	3.1858483641864
(587997)	16.8	327.20766	214.06204	166.20927	11.19707	0.0881037	3.2040290641864
(587998)	17.6	41.70991	255.21603	37.85634	7.44349	0.1951628	2.6327564641864
(587999)	18.8	242.84258	107.20896	3.89460	16.07990	0.1814617	1.8885999641864
(588000)	17.4	317.63050	212.29710	176.97090	22.05250	0.0562200	2.5799438641865
(588001)	18.7	270.21971	115.50150	104.98638	3.34304	0.1618127	2.4103891641865
(588002)	16.1	158.84181	92.66532	135.64809	5.73733	0.0989490	3.1636167641865
(588003)	17.3	195.16741	130.96755	31.66838	9.10425	0.0992011	2.5638660641866
(588004)	17.7	94.12276	187.19005	44.12486	5.00914	0.1295539	2.6331105641866
(588005)	18.4	30.67751	240.71740	40.88247	5.89213	0.2064867	2.2363944641866
(588006)	17.6	86.26532	82.82618	151.26252	9.69959	0.1707590	2.6229087641867
(588007)	18.0	118.12952	160.89437	47.46378	6.62450	0.0927371	2.5870519641867
(588008)	17.2	24.07462	269.19791	44.57160	4.62919	0.2010727	2.6142608641867
(588009)	16.6	194.72236	181.85365	331.63135	8.42893	0.0286578	3.1708460641868
(588010)	16.4	263.31473	91.53826	4.75164	12.26490	0.0727042	3.1818137641868
(588011)	18.9	200.80683	354.93909	128.92626	2.55511	0.0884691	2.1684315641868
(588012)	17.6	240.86927	122.78077	224.11451	5.52590	0.0118914	2.7560321641869
(588013)	16.3	15.35053	191.91561	160.96408	9.56755	0.1185546	3.1689104641869
(588014)	15.9	139.81058	14.50142	233.46146	6.55225	0.1119246	3.1811440641869
(588015)	17.3	107.18812	86.06363	141.37311	8.74654	0.1215958	2.5746844641870
(588016)	16.6	101.15928	102.88226	163.63212	1.47038	0.1447291	3.1434702641871
(588017)	16.4	256.72978	113.97089	1.37136	17.18611	0.0980189	3.1753154641871
(588018)	17.0	260.01410	305.47305	161.28417	10.70830	0.1838975	3.1486756641871
(588019)	17.0	205.68513	191.65594	114.37265	3.21069	0.0478247	2.8701339641872
(588020)	17.1	265.39440	322.77788	130.24318	5.43387	0.1391834	3.1421317641872
(588021)	16.9	125.64807	111.69161	183.71674	9.93194	0.1063585	3.0689343641872
(588022)	18.9	100.67880	30.84890	183.34621	2.65463	0.0934290	2.2129945641873
(588023)	16.9	356.75619	73.59513	324.55306	7.49457	0.1083927	3.0072539641873
(588024)	19.2	135.94192	127.42268	56.45721	1.91437	0.1198792	2.2072720641873
(588025)	17.5	43.42664	99.98573	179.48964	12.27546	0.2587617	2.6829102641874
(588026)	16.5	47.62104	192.60933	120.70763	5.52622	0.1045703	3.2193753641874
(588027)	16.3	50.74370	181.40866	105.89754	4.84894	0.0347966	3.2449247641874
(588028)	16.4	188.31975	202.53187	280.39367	15.34099	0.2359231	3.1618916641875
(588029)	16.3	225.45051	324.24682	170.39417	19.32700	0.1782297	3.1309063641875
(588030)	17.8	195.92064	141.13232	12.57364	11.58253	0.1218883	2.5636521641875
(588031)	16.8	59.75243	115.56700	202.15313	12.03953	0.1502091	2.5320800641875
(588032)	17.8	350.95026	140.57976	202.34113	21.77746	0.0199068	2.6235166641876
(588033)	16.9	201.78524	24.07955	118.39116	5.57595	0.0667220	3.2269650641876
(588034)	16.9	50.44824	148.50822	178.25022	7.18406	0.1914926	2.5274238641876
(588035)	16.7	359.40265	247.58849	143.52517	11.92866	0.0895185	3.0985652641877
(588036)	16.9	322.00514	300.22179	126.36765	7.53742	0.1569296	3.0775106641877
(588037)	15.8	208.29427	135.47328	23.22272	27.34878	0.1125638	3.1698771641877
(588038)	17.6	121.36217	5.89423	181.96237	14.11196	0.1914574	2.6401167641877
(588039)	16.4	84.98851	283.00121	17.40590	9.72552	0.0451979	3.1851992641878
(588040)	18.1	36.81159	249.56567	2.08943	5.56886	0.0768726	2.6591463641878
(588041)	16.6	182.61758	149.80933	10.48563	13.44526	0.0077490	3.2288547641878
(588042)	17.4	94.33511	230.64675	345.55204	10.95168	0.1271454	2.6501084641879
(588043)	17.2	111.35974	272.96536	331.30649	7.60022	0.1573019	2.5942487641879
(588044)	16.4	168.94313	153.18785	27.48033	16.17503	0.0827206	3.2242879641879
(588045)	17.3	213.49733	112.50535	18.08239	1.13948	0.1225193	3.1870657641880
(588046)	18.5	236.21981	292.99842	172.19457	3.59161	0.1648361	2.5541042641880
(588047)	17.9	217.65233	123.72751	0.59623	7.64443	0.0417301	2.5707582641880
(588048)	18.6	53.58787	270.61979	357.77311	3.21324	0.1299763	2.2018628641880
(588049)	17.6	45.42476	198.01969	68.78934	3.08938	0.1624046	2.6822903641881
(588050)	17.1	121.19053	95.27637	99.76608	10.05137	0.1817686	2.6347735641881
(588051)	16.4	15.21724	1.28150	20.47115	11.14170	0.0528846	3.1441050641882
(588052)	17.6	10.29373	207.18305	102.72660	7.21370	0.2625436	2.6878342641882
(588053)	16.1	221.84233	10.00872	157.96242	18.04771	0.1437744	3.1209692641882
(588054)	15.8	140.15048	226.41334	11.60183	18.78073	0.1053946	3.1717532641883
(588055)	16.9	27.38833	229.50176	80.46321	12.85667	0.2272040	2.6598484641883
(588056)	17.6	73.79538	299.86364	334.34756	7.82277	0.0787340	2.6015501641884
(588057)	16.7	246.99535	167.84542	351.77179	9.71792	0.0605822	3.1243546641884
(588058)	19.0	277.94309	221.41848	195.67465	21.87841	0.0845567	1.9132418641884
(588059)	17.9	164.75655	330.33726	172.96364	1.08358	0.0993188	2.5691914641884
(588060)	17.0	123.47845	244.47365	348.73118	9.09642	0.0654104	3.1993612641884
(588061)	19.0	129.76300	340.55078	205.65660	4.94106	0.0583788	2.2050004641885
(588062)	18.4	16.54803	233.07029	71.44055	5.26049	0.1883894	2.2368911641885
(588063)	18.0	50.91043	299.04877	331.11160	3.72006	0.2705068	2.6451527641885
(588064)	16.8	114.61819	281.92955	23.45597	11.73815	0.0618029	3.0845898641885
(588065)	18.3	151.58821	118.31240	57.56656	5.74175	0.0596339	2.1923686641886

(588066)	18.4	49.73770	135.09808	128.84459	5.04366	0.1428903	2.2208507641886
(588067)	18.6	63.40686	146.00348	118.07222	3.64357	0.1734946	2.2107312641886
(588068)	18.7	40.57056	84.13492	171.02818	1.26565	0.0439150	2.2511721641887
(588069)	16.8	116.08679	237.64531	60.44322	10.40925	0.0940139	3.1547655641887
(588070)	18.8	259.00009	91.36166	11.71679	20.70477	0.0612441	1.8858207641887
(588071)	17.6	78.39880	216.12537	37.80638	6.07222	0.0843771	2.6524302641887
(588072)	17.7	86.16316	221.17447	15.53471	14.79333	0.0574855	2.6210099641888
(588073)	16.8	177.99788	179.74842	35.29726	1.04492	0.1327442	3.1423992641888
(588074)	16.2	82.13791	26.62404	281.87900	7.94134	0.0782081	3.0947241641888
(588075)	18.3	123.07484	336.69342	215.21005	20.51400	0.0408391	1.9344369641889
(588076)	16.5	238.91988	83.58119	48.56507	9.69562	0.0650075	3.1560961641889
(588077)	17.6	7.28060	270.23645	50.64861	13.75565	0.0708636	2.6388973641890
(588078)	18.3	25.55844	71.31189	226.36093	4.74702	0.1759093	2.2395030641890
(588079)	17.8	34.04241	201.90429	100.30937	3.43982	0.1925731	2.6724138641890
(588080)	18.3	21.62929	153.56120	160.14519	7.59997	0.2002039	2.2264624641890
(588081)	17.7	357.67225	191.33708	183.68956	10.80975	0.0353190	2.5708782641891
(588082)	17.2	252.69799	140.37711	13.33443	10.56515	0.0501793	3.1162841641891
(588083)	14.4	334.33021	100.31233	201.27215	30.00516	0.0200642	5.2211514641891
(588084)	17.8	351.66854	147.14263	177.36222	1.97951	0.0690005	2.6524016641892
(588085)	16.6	188.65455	345.15020	178.30831	32.94980	0.0832718	3.1927012641892
(588086)	18.1	102.88419	62.32926	225.14161	3.28578	0.1728247	2.5750934641892
(588087)	16.3	302.32792	208.20884	223.22033	3.70888	0.1145328	3.1344161641892
(588088)	18.4	93.20018	116.28765	110.93442	3.07376	0.1091089	2.2233025641893
(588089)	17.0	11.65224	235.67291	93.20532	7.87183	0.2201276	2.6563972641893
(588090)	17.1	1.38734	256.79296	90.21299	3.38306	0.1660072	2.6338054641894
(588091)	17.3	21.71496	223.95590	67.11752	16.19201	0.1871238	2.7099966641894
(588092)	18.3	62.89405	169.35869	81.79068	3.76493	0.1435371	2.2347009641894
(588093)	15.8	206.49707	138.85516	68.14135	17.37926	0.0358343	3.1286152641895
(588094)	17.3	160.04603	91.87154	87.50346	10.91811	0.0821578	2.6278236641895
(588095)	17.0	328.60733	6.55663	51.95272	17.79205	0.1478448	2.5602606641896
(588096)	17.8	151.67874	319.28784	233.00261	3.24483	0.0847520	2.6233976641896
(588097)	16.9	98.15950	141.03247	84.01030	14.60771	0.2067724	2.6608268641896
(588098)	16.5	289.20834	44.25699	83.46279	11.00518	0.0722489	3.1064904641897
(588099)	16.6	184.26114	129.11209	42.50016	11.77478	0.1080223	3.2195028641897
(588100)	16.6	230.52422	311.34223	180.54648	18.69538	0.1335542	3.2147666641897
(588101)	17.7	289.32486	262.20852	196.74281	21.18835	0.1421460	2.5414942641898
(588102)	17.6	353.87468	241.33561	106.19694	2.83084	0.0891429	2.6503943641898
(588103)	17.2	296.09836	116.26405	57.49780	9.63978	0.0353991	3.0050087641898
(588104)	16.9	193.04336	227.89526	76.30567	13.59997	0.1978165	3.0283719641898
(588105)	17.8	74.52017	186.29233	54.40257	14.50186	0.1183061	2.6767239641899
(588106)	18.5	170.31437	111.92704	49.29371	5.65165	0.0840605	2.2014739641899
(588107)	17.4	9.94209	258.70432	58.49950	14.88010	0.2119538	2.6922373641899
(588108)	16.0	154.37269	168.59763	59.21610	13.84252	0.0225190	3.1493158641899
(588109)	16.6	98.92168	26.47833	229.19377	25.38858	0.0446499	2.6199683641900
(588110)	17.5	99.10422	30.25797	205.10769	12.74397	0.1655784	2.6269907641900
(588111)	17.8	41.48767	248.16908	60.16504	3.78805	0.0239025	2.6250001641901
(588112)	17.4	68.71043	355.95815	223.47153	1.94661	0.2941885	2.7158273641901
(588113)	17.7	46.49940	210.21828	84.12151	2.83690	0.1044598	2.6346874641901
(588114)	18.3	4.35602	166.85241	165.06108	6.43348	0.1413281	2.2348471641901
(588115)	18.7	217.92336	275.48592	205.67540	22.00935	0.0731125	1.9240377641902
(588116)	16.9	115.55081	187.31384	135.84348	16.06601	0.0390391	3.1316744641902
(588117)	17.9	277.67043	291.32473	169.02389	3.90646	0.1703901	2.5652953641902
(588118)	18.9	116.68524	17.28818	176.47793	4.88589	0.1078706	2.2378428641902
(588119)	17.0	66.73003	192.65125	91.44205	12.05996	0.1117377	2.6356200641903
(588120)	17.6	15.04779	198.92751	111.09982	5.47446	0.2892124	2.7491253641903
(588121)	16.2	244.92550	76.31069	92.79900	6.13921	0.1104943	3.1589178641903
(588122)	17.0	49.54270	152.38473	171.03512	12.12912	0.2042105	2.6254109641904
(588123)	17.0	0.00315	215.09241	138.13258	12.85768	0.2104853	2.6656184641904
(588124)	17.0	163.54138	59.13161	137.65317	15.26762	0.0672298	2.6751542641904
(588125)	18.0	87.97965	351.28453	248.61331	7.92717	0.0857269	2.2654019641905
(588126)	17.6	136.34701	40.65195	129.63899	12.64724	0.1172892	2.6741418641905
(588127)	17.2	125.23709	342.02418	240.38972	12.72693	0.1831472	2.6300951641906
(588128)	17.6	58.26366	31.38840	243.74280	12.38002	0.1988023	2.6794059641906
(588129)	17.7	86.94297	30.43186	206.63408	13.09968	0.2025809	2.6764851641906
(588130)	18.6	67.46821	359.71328	278.67266	7.43188	0.0826287	2.2518981641907
(588131)	17.9	7.52283	66.69984	284.06375	5.31232	0.2083618	2.2592572641907
(588132)	17.4	231.90542	240.59634	217.61677	21.24783	0.0488094	2.6747251641907
(588133)	17.0	12.50087	198.42812	132.59919	6.20849	0.2015787	2.6746186641907
(588134)	18.7	186.44758	57.84993	98.93891	5.96394	0.1097482	2.2047807641908
(588135)	17.7	146.69633	347.34100	217.02950	7.37931	0.0723180	2.6299416641908
(588136)	14.0	333.53013	132.74641	279.12659	21.85017	0.1087255	5.2007256641908
(588137)	16.6	146.23273	120.13954	74.45663	15.64009	0.0376984	2.6582923641909
(588138)	17.6	18.50601	62.17805	262.15079	4.71457	0.0299770	2.7442433641909
(588139)	18.0	352.56442	17.98675	324.95391	6.56646	0.1634355	2.2906677641909
(588140)	17.0	16.28795	355.27288	357.26548	9.83408	0.2265911	2.7232997641910
(588141)	18.5	17.12902	341.40986	340.46530	18.97512	0.0692307	1.9613862641910
(588142)	17.0	1.15847	194.29772	149.34358	9.48045	0.1071709	2.7637044641910
(588143)	17.3	33.18479	136.17605	149.59669	8.96329	0.2937912	2.7647953641911
(588144)	17.1	53.89050	7.39890	331.45774	5.12461	0.0402095	2.6994585641911
(588145)	17.4	359.55334	72.26243	279.19391	2.67532	0.1103920	2.7631933641911
(588146)	17.1	21.51085	14.31974	310.25470	4.99704	0.0493220	2.7697963641912
(588147)	17.8	353.01966	302.95677	61.77416	4.75356	0.1898006	2.2790309641912
(588148)	17.2	12.75418	25.54478	330.58268	5.59970	0.0963805	2.7235859641912
(588149)	18.4	251.69193	238.44710	218.46709	20.36066	0.1005374	1.9825458641913
(588150)	18.3	66.24483	46.41282	215.97776	6.20077	0.0904430	2.3095655641913
(588151)	16.6	180.46419	57.38567	165.96220	11.79601	0.0941095	2.6523815641913
(588152)	17.7	21.45369	167.06889	153.75373	4.87506	0.0663398	2.7746244641914
(588153)	18.0	292.07523	34.45039	26.48150	5.88270	0.0894456	2.2936610641914
(588154)	18.1	137.02290	216.20655	301.67364	0.54455	0.1256575	2.3660489641915
(588155)	17.3	318.47157	209.18265	196.34809	12.15128	0.1205600	2.7797530641915
(588156)	18.4	256.89429	126.24086	342.39977	5.54759	0.1010800	2.2947406641915
(588157)	17.1	10.11795	357.77872	351.90571	3.53444	0.1102443	2.7540109641916
(588158)	17.4	73.09414	9.18719	334.94452	6.37544	0.1745204	2.6590867641916
(588159)	17.1	45.82052	155.29620	172.57173	6.58458	0.0649588	2.7185762641917
(588160)	14.3	319.52495	316.31839	142.87335	7.35453	0.0483220	5.2094626641917
(588161)	17.7	68.76581	252.17005	77.59101	2.91526	0.0359901	2.6844334641917
(588162)	17.7	254.90038	219.94031	251.98521	3.38298	0.1931384	2.2852086641918
(588163)	17.2	13.33209	292.55516	38.54108	3.81807	0.0986064	2.7744894641918
(588164)	17.6	34.09924	229.40625	86.14792	4.60836	0.0855812	2.7880143641918
(588165)	18.3	28.09288	323.23173	352.46485	5.80798	0.1831398	2.2851201641918
(588166)	18.3	358.25071	194.00976	149.65515	6.55446	0.1384116	2.3018775641919
(588167)	18.0	23.35525	188.76292	125.68724	7.63472	0.1274762	2.3034704641919
(588168)	17.9	74.35324	86.89930	341.67194	3.99538	0.2387149	2.5696884641919
(588169)	17.5	331.96433	31.77893	304.11517	1.02830	0.0768993	2.8582200641920

(588170)	17.5	350.82711	359.15595	312.73146	4.42905	0.0217910	2.8734505641920
(588171)	17.9	41.26545	167.51268	279.70290	2.90909	0.1045518	2.5891256641920
(588172)	17.0	25.62721	149.51813	173.17819	16.97991	0.3038844	2.7546755641920
(588173)	18.6	48.56868	17.32855	300.40902	0.93839	0.2166212	2.2656037641921
(588174)	17.6	151.42724	82.13346	184.28242	12.46881	0.1678546	2.6230474641921
(588175)	17.1	249.61446	0.20288	272.35608	1.70519	0.2531402	3.0553386641922
(588176)	14.4	14.46497	212.97381	179.66229	11.33997	0.0443720	5.2813151641922
(588177)	18.2	29.75971	301.24139	32.13240	2.65995	0.2254312	2.2690202641922
(588178)	16.8	3.83739	354.74699	356.49414	13.84770	0.1565314	2.7786972641923
(588179)	18.8	332.30287	163.36822	207.73356	5.99452	0.2253616	2.3041714641923
(588180)	17.1	10.78268	298.07967	25.89440	12.88968	0.2039680	2.7840970641923
(588181)	18.2	39.68396	2.12890	331.27075	6.29841	0.1460180	2.2576445641924
(588182)	17.9	20.58527	63.43744	230.21316	5.47551	0.2417174	2.2983473641924
(588183)	19.3	316.71490	359.79228	21.93360	2.25888	0.1970857	2.3202394641924
(588184)	18.1	184.78208	336.04223	128.68092	2.24892	0.1385868	2.3704533641924
(588185)	17.1	8.46381	2.48001	331.09599	4.49914	0.0417557	2.7747134641925
(588186)	17.3	309.83772	302.87125	95.51631	6.74758	0.0896643	2.7917003641925
(588187)	17.0	263.40058	182.54481	277.20196	11.27752	0.1159675	2.7935932641925
(588188)	14.1	62.14202	187.28478	143.79445	10.33314	0.0590300	5.1583897641926
(588189)	18.9	266.29752	281.29826	101.59017	3.26505	0.2198165	2.3592658641926
(588190)	17.7	328.12936	1.64379	344.28282	1.45537	0.0787497	2.8685738641926
(588191)	17.8	166.28416	207.71934	325.34205	3.35010	0.0397165	2.7685326641926
(588192)	17.5	341.31636	233.25069	132.91056	7.99258	0.0804789	2.7694968641927
(588193)	17.9	32.15469	49.41123	252.58244	6.13277	0.1195161	2.3149698641927
(588194)	17.5	290.60635	235.76066	146.84459	2.66973	0.1045487	2.8889313641927
(588195)	17.4	21.60471	299.59020	18.77481	13.24035	0.1683349	2.7863211641928
(588196)	14.6	90.62800	148.94206	173.11812	7.54018	0.0160760	5.2068023641928
(588197)	16.6	280.89772	103.21528	349.14805	13.22786	0.1223651	2.7614858641928
(588198)	18.7	297.92340	25.50904	33.58715	4.42978	0.1047528	2.3062902641928
(588199)	17.6	352.99035	105.87190	285.18813	2.97328	0.2693001	2.7781631641929
(588200)	18.3	218.74156	340.94141	113.52827	2.97012	0.1855323	2.3608403641929
(588201)	17.6	303.00767	242.79776	151.65658	6.23214	0.0810897	2.8395091641929
(588202)	13.6	346.19138	116.35004	294.38040	14.42337	0.0672610	5.2975328641930
(588203)	16.4	192.69476	252.74380	78.65571	10.00404	0.2334817	3.1698268641930
(588204)	18.3	37.28964	280.44982	33.76913	5.96169	0.2788733	2.2952535641930
(588205)	18.8	162.77173	170.36985	10.85476	19.40155	0.0542569	1.9816709641931
(588206)	18.0	264.06695	144.17723	155.97319	7.18365	0.1583924	2.4436405641931
(588207)	17.9	323.92903	186.35308	165.83728	2.22095	0.0877890	2.8590931641931
(588208)	17.0	5.95027	135.34267	213.14296	27.90336	0.2454106	2.7745756641931
(588209)	14.1	338.01384	162.41714	247.14410	13.22800	0.1034238	5.2900611641932
(588210)	18.4	302.86029	224.96196	186.66787	1.86983	0.1852935	2.3092948641932
(588211)	17.8	11.31487	11.40541	310.29827	3.21978	0.2585413	2.3124583641933
(588212)	18.8	276.91759	196.69050	214.54148	4.95877	0.1829868	2.3471398641933
(588213)	18.2	353.87254	156.25359	199.89255	5.90690	0.2413734	2.3061888641933
(588214)	18.0	177.75633	223.67985	307.67021	8.04363	0.0208205	2.3079661641934
(588215)	17.5	351.21057	266.25142	140.57463	2.72162	0.0788312	2.7520798641934
(588216)	16.8	80.98549	225.58600	62.45799	4.54380	0.0688183	2.7758111641934
(588217)	18.1	290.50980	186.22236	196.32410	6.83819	0.1153807	2.3661406641935
(588218)	16.6	31.02141	319.68937	36.01160	11.27770	0.0708172	2.7589387641935
(588219)	17.1	17.45522	128.40728	218.26051	4.09058	0.1264139	2.7676910641935
(588220)	18.2	353.07382	128.04499	220.19270	3.33029	0.1433614	2.3158188641936
(588221)	17.4	305.24684	222.32156	182.60550	1.84022	0.0644499	2.8426095641936
(588222)	17.2	187.06088	319.26509	29.42275	1.20403	0.1235336	3.1704936641936
(588223)	18.1	208.07007	285.92985	137.21538	3.86446	0.1139455	2.3871602641936
(588224)	16.9	194.00891	196.83702	4.60208	3.95256	0.0356771	2.7423305641937
(588225)	17.5	12.02490	112.77821	221.57192	3.17588	0.1106887	2.8178702641937
(588226)	17.1	41.66024	264.67119	32.84822	6.26943	0.0390047	2.8612107641938
(588227)	18.1	347.12042	134.03299	215.89534	5.95354	0.1374144	2.3247429641938
(588228)	17.6	315.90093	357.95869	97.65915	2.16736	0.1744572	2.7400770641938
(588229)	17.4	359.54084	72.07903	292.37277	6.87298	0.2413538	2.7727616641939
(588230)	16.9	311.27322	105.96862	320.24106	3.82604	0.0453929	2.7766486641939
(588231)	17.0	0.53506	46.33794	310.23639	3.51757	0.0869397	2.7904075641939
(588232)	17.2	332.25065	61.62331	6.79311	10.59394	0.1194501	2.7352178641940
(588233)	17.2	16.16986	350.22880	351.54905	4.37554	0.0132665	2.7916457641940
(588234)	18.3	170.68709	263.30072	254.07005	0.85667	0.1184297	2.3462319641940
(588235)	17.2	6.82918	330.46562	52.21577	5.99241	0.1873052	2.7592782641941
(588236)	17.3	25.18828	111.85383	284.85569	4.65066	0.0679129	2.6904375641941
(588237)	17.0	24.39566	147.68273	193.41031	3.06680	0.1030297	2.7785921641941
(588238)	19.3	296.44837	47.55083	358.49241	2.25290	0.2244626	2.3340741641942
(588239)	16.9	44.72594	314.99945	356.93773	4.70103	0.1011928	2.7780022641942
(588240)	17.0	279.53686	299.12069	182.15852	9.28817	0.1472396	2.7768963641942
(588241)	17.7	46.25615	57.25320	8.23851	7.75893	0.1690771	2.6312815641943
(588242)	17.2	220.10952	99.74318	29.00393	15.66175	0.2062071	2.8862993641943
(588243)	17.0	41.84509	44.04207	251.10939	2.99769	0.0799225	2.7830380641943
(588244)	17.1	8.60882	190.64664	114.32192	3.22739	0.0516652	2.8778554641944
(588245)	16.5	70.97831	220.67094	70.26490	5.97842	0.1355965	2.7958143641944
(588246)	17.4	205.57881	290.95254	211.74282	7.83674	0.1039256	2.8813182641944
(588247)	17.8	27.02261	355.42609	318.29560	1.56754	0.1945016	2.3101141641945
(588248)	17.2	351.42794	55.21199	306.10358	2.62410	0.1103821	2.7722303641945
(588249)	17.0	316.82110	283.19336	155.92233	11.24646	0.1588039	2.7112083641945
(588250)	17.5	273.04591	326.50232	84.92955	3.15747	0.0634122	2.8651505641946
(588251)	16.9	54.67900	335.65738	334.67218	14.53283	0.0951965	2.6928942641946
(588252)	16.6	166.83871	340.23747	8.80459	9.61036	0.0968679	3.1416091641946
(588253)	17.8	84.67150	112.98616	160.03755	6.81825	0.1093012	2.3002596641947
(588254)	18.0	210.78088	352.10530	138.77406	5.56534	0.1253852	2.3627199641947
(588255)	18.2	337.81119	317.66982	62.20604	5.43298	0.2510563	2.3001087641948
(588256)	17.8	76.84077	299.21691	42.79702	7.99906	0.1300086	2.7125708641948
(588257)	18.4	179.87219	108.19455	42.90574	2.91160	0.1161367	2.3442571641948
(588258)	17.2	341.47096	60.99326	329.26412	3.61717	0.0777527	2.7919009641949
(588259)	17.5	3.65768	2.21570	36.13282	6.68454	0.1254060	2.7361658641949
(588260)	16.7	21.21221	297.43404	65.45468	15.54943	0.2226949	2.7400360641949
(588261)	18.1	3.12770	265.02444	79.86700	4.63866	0.2186402	2.3023503641950
(588262)	17.6	130.92752	229.20365	359.08539	6.76663	0.0903942	2.3196860641950
(588263)	14.1	339.90346	266.19069	166.22967	4.91152	0.0816043	5.3347322641950
(588264)	18.0	84.86367	115.59924	115.73907	2.94155	0.1703724	2.3604276641951
(588265)	17.1	303.36328	129.24333	301.25732	4.38626	0.0753921	2.8098664641951
(588266)	17.1	73.20919	246.60640	65.11852	10.20007	0.1583016	2.7582359641951
(588267)	19.0	276.83498	269.82057	159.16454	1.34841	0.1603653	2.3400987641952
(588268)	17.6	96.29962	294.08502	70.37255	6.76223	0.0855056	2.6526930641952
(588269)	18.4	78.53917	140.95788	123.13125	5.03534	0.0853561	2.3334835641952
(588270)	17.5	253.56579	264.66220	172.68268	6.19881	0.0450396	2.8750168641952
(588271)	18.1	334.74366	97.21855	288.97287	6.14271	0.1196594	2.2934612641953
(588272)	17.5	231.87351	164.18452	282.61423	0.97061	0.0258547	2.8438304641953
(588273)	17.2	251.60002	345.71073	97.71781	5.69034	0.0253817	2.8863157641953

(588274)	16.9	98.71346	209.98484	39.50061	15.81509	0.1000624	2.8380680641954
(588275)	16.9	304.89705	66.89759	10.43468	4.77649	0.1453901	2.7630796641954
(588276)	17.3	308.88886	185.36425	242.56637	5.64809	0.0383418	2.7946838641954
(588277)	17.4	248.95338	319.68861	116.74818	3.36965	0.0291161	2.8593980641954
(588278)	17.8	268.51637	309.16480	118.42369	3.03833	0.0628752	2.8603675641955
(588279)	17.6	199.15651	257.60886	245.66506	2.70997	0.0967144	2.8359251641955
(588280)	17.2	18.88003	300.06802	23.31773	2.19861	0.0671978	2.8668406641955
(588281)	17.3	6.96169	314.40163	76.86430	5.13841	0.1058878	2.7611070641955
(588282)	18.0	38.50347	276.30869	135.21548	3.87855	0.0958003	2.6654509641956
(588283)	19.3	273.77610	79.63484	313.18707	0.85496	0.1946262	2.3710083641956
(588284)	17.1	60.32042	59.59797	218.09210	9.25009	0.0694694	2.8481327641956
(588285)	18.3	76.92207	353.81656	31.52372	2.84052	0.1484310	2.6292135641957
(588286)	17.0	105.26364	165.97110	195.37011	5.14780	0.1164053	2.5731579641957
(588287)	17.5	307.13311	282.73472	163.71349	13.93391	0.2235577	2.7492107641957
(588288)	17.1	345.70665	249.93165	150.97581	6.82220	0.0613970	2.7623725641958
(588289)	18.3	223.52001	90.78381	35.09863	1.83027	0.1326924	2.3308520641958
(588290)	17.3	252.98889	74.99288	57.33947	22.96549	0.0844563	1.9820277641958
(588291)	17.7	50.89846	217.61920	62.51913	2.28393	0.0893486	2.8494840641959
(588292)	17.4	129.73147	42.50438	214.55863	2.22433	0.0111857	2.7630225641959
(588293)	17.0	8.41716	159.44474	224.30866	5.55456	0.0120840	2.7605686641959
(588294)	17.3	6.68741	318.50818	64.20659	10.72486	0.2090669	2.7713969641960
(588295)	18.3	247.52428	352.05984	103.02536	7.06318	0.0651170	2.3530941641960
(588296)	17.8	268.59746	30.26349	25.31017	2.13122	0.0649573	2.8540893641960
(588297)	17.2	145.84953	34.07402	115.32592	5.70196	0.1579748	3.0151821641961
(588298)	17.0	1.16337	246.92050	133.00087	5.95352	0.0840573	2.8025585641961
(588299)	17.5	340.72873	338.98725	62.39048	8.86966	0.0741265	2.7562619641961
(588300)	18.4	62.82193	271.71723	30.34596	10.33916	0.2014026	2.2897196641962
(588301)	17.3	7.54197	177.52173	134.41539	3.03727	0.0413676	2.9183572641962
(588302)	17.9	64.90408	336.29956	14.00117	6.33386	0.0683766	2.7361495641962
(588303)	17.5	258.26307	285.18758	205.04994	3.67173	0.0168864	2.7537991641962
(588304)	17.2	201.86106	91.38318	73.10877	12.70786	0.0381555	2.8384664641963
(588305)	17.3	339.15797	175.16780	202.21751	7.00892	0.0586856	2.8107896641963
(588306)	17.2	284.73114	33.12023	48.99122	4.84516	0.0789291	2.8148355641964
(588307)	17.1	70.38859	11.28290	283.64059	2.71094	0.0785516	2.7723975641964
(588308)	16.9	263.33801	249.94039	228.58203	5.08618	0.0764418	2.7771819641964
(588309)	17.5	256.33209	298.92277	118.10411	3.91953	0.1041628	2.9197937641965
(588310)	17.3	330.37459	64.89545	331.01722	4.87608	0.0574097	2.8091068641965
(588311)	17.4	109.75434	245.82744	63.37997	6.14367	0.0227843	2.7182408641965
(588312)	16.4	317.73181	353.28264	72.77885	10.60504	0.1594656	2.8077891641965
(588313)	18.4	242.71670	334.26430	70.58389	3.41817	0.1909294	2.3969814641966
(588314)	18.9	222.16087	96.23105	16.97828	1.22022	0.1207321	2.3704750641966
(588315)	18.1	188.89223	296.18410	231.81859	9.66059	0.1600558	2.3519445641966
(588316)	18.1	244.75213	201.63479	288.10916	4.01479	0.0985986	2.3345480641967
(588317)	18.2	258.81461	89.63329	11.60422	6.52309	0.1657044	2.3138334641967
(588318)	18.0	312.46444	66.40729	305.25233	1.07295	0.0836384	2.8695140641967
(588319)	17.7	63.82640	349.05862	276.17562	3.23955	0.2433352	2.3216892641968
(588320)	16.7	54.00743	202.79755	80.31229	9.54608	0.1387607	2.8761617641968
(588321)	18.3	57.56976	268.67190	1.77814	4.91942	0.1518487	2.3187737641968
(588322)	17.0	305.52978	142.11661	252.84367	11.74560	0.1177382	2.8705808641969
(588323)	17.8	305.01199	298.37296	184.32776	4.51946	0.0736101	2.7384402641969
(588324)	17.0	299.56980	307.39488	104.47727	3.28270	0.0624138	2.8888400641970
(588325)	18.3	268.92549	106.92795	14.62718	19.78984	0.1020404	1.9483934641970
(588326)	18.1	99.99303	200.83623	175.27939	3.14922	0.2059678	2.6138553641970
(588327)	18.2	225.76861	294.95232	206.45651	17.53933	0.1165718	1.9981595641970
(588328)	17.9	353.87211	253.70522	153.42308	2.89883	0.1264205	2.7684631641971
(588329)	17.9	102.70419	353.40781	251.79632	5.41164	0.1150467	2.3377652641971
(588330)	16.7	351.81619	230.46646	147.78893	5.60093	0.1667743	2.7993625641972
(588331)	16.4	4.86373	297.65231	98.63149	7.08842	0.0492204	2.7540542641972
(588332)	18.4	248.81440	266.09217	172.39323	6.68227	0.1057999	2.3669504641972
(588333)	17.6	128.97586	90.04325	269.78168	4.14096	0.0567177	2.6252300641973
(588334)	17.5	13.24228	304.49872	37.67897	2.48274	0.0825276	2.8328152641973
(588335)	16.8	265.25448	12.02647	71.37299	3.09578	0.0405489	2.9025449641973
(588336)	18.4	273.38096	53.84981	11.73834	5.29558	0.1022798	2.3563449641974
(588337)	17.4	306.23194	321.12148	98.44530	3.23004	0.0479939	2.8535577641974
(588338)	17.3	322.22982	319.73229	114.00825	14.30151	0.1053862	2.7602224641974
(588339)	16.7	349.42942	294.59454	85.59916	10.16683	0.1635044	2.7995965641975
(588340)	16.7	248.86532	52.81054	66.40825	6.98349	0.0635279	2.8614522641975
(588341)	17.3	291.52146	328.41434	133.33029	9.07872	0.1895412	2.7998281641975
(588342)	17.3	258.93943	206.42226	273.95076	4.72274	0.0206526	2.8354117641976
(588343)	18.3	184.77348	86.62855	58.63278	7.02441	0.0779642	2.3871055641976
(588344)	18.5	279.30474	154.23708	277.04251	5.53880	0.1070102	2.3539788641976
(588345)	17.5	333.37723	29.14257	322.73330	1.19513	0.0933849	2.9039803641977
(588346)	17.4	17.72150	170.41904	148.33816	2.68845	0.0823941	2.8798011641977
(588347)	17.7	234.95941	58.15548	44.08016	3.31226	0.1103779	2.8792592641977
(588348)	18.2	341.81687	296.85900	76.41890	3.40550	0.2292786	2.3265281641977
(588349)	18.1	131.34869	329.84510	219.25241	5.86031	0.1299119	2.3993498641978
(588350)	17.3	265.01057	153.09692	275.67770	6.72995	0.0655619	2.8855772641978
(588351)	16.5	86.95409	26.51299	272.76908	7.61179	0.0865777	2.7915124641978
(588352)	16.1	177.99336	263.49802	269.42672	9.00442	0.1046320	2.8983216641979
(588353)	18.4	266.15443	175.76767	301.98638	4.38199	0.1730132	2.3215251641979
(588354)	16.6	12.81448	312.12216	17.41663	6.00287	0.0741730	2.8758639641980
(588355)	18.1	358.93567	350.67934	10.05669	4.44065	0.1203616	2.3211213641980
(588356)	17.1	291.68637	23.33792	41.39992	9.38992	0.1088977	2.8724798641980
(588357)	18.2	235.22165	130.62659	314.42713	5.91202	0.1132879	2.4218517641981
(588358)	17.7	74.55479	3.33156	41.29342	6.39325	0.0784347	2.6526800641981
(588359)	17.3	0.04411	103.80844	261.53859	2.50879	0.1063817	2.8150593641981
(588360)	17.2	2.63102	40.61153	325.44846	3.57122	0.0842728	2.8136331641982
(588361)	16.7	358.92053	352.36731	354.34731	1.62285	0.0800782	2.8690537641982
(588362)	17.0	15.86278	288.20289	76.64751	9.16656	0.2361236	2.8050451641982
(588363)	16.4	287.63594	112.53442	284.21069	10.65067	0.0728836	2.9736347641983
(588364)	17.8	189.27982	56.31803	105.18884	2.22771	0.1158841	2.3919877641983
(588365)	16.8	346.49039	303.04569	68.13183	7.09281	0.0775564	2.8767323641983
(588366)	17.1	202.27326	51.87490	72.26575	14.16017	0.0305482	2.9685197641984
(588367)	17.0	334.42765	165.14854	256.12795	10.58097	0.1313831	2.7797488641984
(588368)	17.2	175.29434	251.81578	266.32964	5.53872	0.0336708	2.9259253641984
(588369)	18.2	250.26564	331.68592	77.57815	7.03252	0.1037671	2.4107541641984
(588370)	16.7	126.15419	3.94853	112.54720	13.14233	0.1057629	3.2223325641985
(588371)	17.4	10.98631	270.99532	72.93488	8.25128	0.1527146	2.3697182641985
(588372)	17.7	343.09360	38.36393	355.90079	7.16322	0.2916375	2.3125038641985
(588373)	17.3	330.15236	59.38166	324.74407	11.08482	0.0684465	2.9307524641986
(588374)	16.8	223.32916	220.35464	276.49353	8.72582	0.1517840	2.9899667641986
(588375)	16.3	90.60099	295.42606	336.95024	10.17121	0.0666113	2.9096378641986
(588376)	17.0	314.02263	287.64679	119.80018	11.29035	0.1492467	2.9200272641986
(588377)	18.4	219.65231	253.85999	210.47303	5.52754	0.0796309	2.3846379641987

(588378)	17.0	341.01186	312.13026	71.18991	13.23063	0.0920069	2.8856030641987
(588379)	16.9	41.90342	55.03098	289.12582	5.51308	0.0821110	2.8340562641987
(588380)	17.7	345.26563	210.72637	205.82547	4.95991	0.1664910	2.7798665641988
(588381)	17.1	183.49796	106.71630	47.50096	6.08057	0.0544676	2.9367051641988
(588382)	16.9	68.28986	228.15116	83.47643	8.33455	0.0638257	2.8762386641988
(588383)	18.8	197.41223	236.50825	257.32782	3.02911	0.1259895	2.4081645641988
(588384)	18.4	17.95961	346.72057	111.27216	7.28458	0.1019218	2.2533277641989
(588385)	18.6	296.26629	319.49879	122.14908	2.26632	0.1414945	2.3506761641989
(588386)	17.5	22.71256	309.74455	124.53651	2.85623	0.0801988	2.7492141641989
(588387)	18.1	109.88784	329.25464	235.76670	5.60270	0.0997723	2.4525727641989
(588388)	16.6	54.00581	253.24108	40.20859	9.23978	0.0571965	2.8893119641990
(588389)	18.3	211.71053	275.82004	218.18695	1.73460	0.1179518	2.4024535641990
(588390)	16.7	54.04791	350.80866	303.47000	8.62354	0.0501465	2.9880302641990
(588391)	19.0	316.22687	303.12755	155.26117	1.29490	0.1488579	2.3143861641991
(588392)	17.3	221.74780	49.45816	71.36626	2.48435	0.1392100	3.0119131641991
(588393)	16.8	97.15332	120.46706	126.38808	16.69356	0.2405395	3.0639355641991
(588394)	18.1	331.63247	140.04832	246.66642	6.90038	0.1279513	2.3220436641992
(588395)	18.0	97.31079	150.30521	114.99745	5.97673	0.1651657	2.3930921641992
(588396)	17.1	123.54863	289.92084	297.37414	8.06062	0.0307223	2.9777483641992
(588397)	16.8	152.02481	241.65940	305.17442	8.82548	0.0390979	3.0152416641992
(588398)	16.9	269.44550	280.21469	130.70411	9.38177	0.1375147	3.0198900641993
(588399)	18.3	221.11128	53.73931	138.21654	6.08645	0.1080125	2.3351205641993
(588400)	17.1	174.79789	21.98377	109.68678	2.76461	0.1496999	3.0858879641993
(588401)	17.2	22.35886	239.29111	125.39410	3.59476	0.1121402	2.8531645641994
(588402)	18.5	296.20296	290.55074	121.69841	7.72679	0.0965334	2.3772076641994
(588403)	16.6	333.75608	317.82822	91.73485	10.66217	0.0934302	2.8764542641994
(588404)	18.8	281.43908	35.48770	58.45761	1.51349	0.1824409	2.3547555641995
(588405)	18.0	325.15567	323.51441	93.07904	7.26335	0.0887394	2.3496251641995
(588406)	18.3	161.23708	19.60892	139.66168	7.75308	0.1266467	2.4441242641995
(588407)	17.4	72.18189	105.62657	123.79028	3.69268	0.1849650	3.1222085641996
(588408)	18.2	50.11569	334.68507	310.91213	6.03001	0.1677081	2.4235806641996
(588409)	17.4	99.49520	307.14383	308.84526	7.69335	0.0368098	2.9650258641996
(588410)	18.4	172.88387	8.80289	142.32601	5.47486	0.1783397	2.4430775641996
(588411)	17.7	340.95736	239.83803	155.78506	6.84502	0.2232791	2.8659316641997
(588412)	17.3	177.44016	354.28374	165.18928	5.33955	0.1897622	3.0139377641997
(588413)	16.9	340.38918	74.30438	324.37133	9.10524	0.0899971	2.8845853641997
(588414)	17.0	226.06296	315.14813	128.49737	11.11163	0.0738583	3.0767162641997
(588415)	16.9	50.04585	182.34125	129.93437	12.95943	0.0537913	2.9232228641998
(588416)	18.5	153.13222	53.22050	120.99221	3.92691	0.1320468	2.4341730641998
(588417)	16.8	275.59538	127.25769	297.34822	8.33882	0.0222397	2.9701882641998
(588418)	17.1	337.04217	137.26766	267.59372	8.63763	0.2172471	2.8714661641998
(588419)	16.7	126.11258	57.63243	145.61751	19.54297	0.1404936	3.0822932641999
(588420)	17.3	119.70233	49.05177	112.07440	2.51828	0.1139951	3.1537933641999
(588421)	18.4	269.01723	95.62365	344.65808	7.09334	0.0673985	2.3881386641999
(588422)	17.1	109.64334	227.01309	325.31452	10.63674	0.0457605	3.0858894641999
(588423)	18.1	338.36477	283.31220	106.62274	4.17774	0.2044310	2.3506351642000
(588424)	16.7	68.09125	108.02799	138.10702	11.11905	0.0368685	3.0954451642000
(588425)	16.3	234.93489	346.13700	111.60346	11.30710	0.0640109	2.9798341642000
(588426)	17.5	302.97984	243.24330	142.62389	7.22840	0.1601994	2.4263228642001
(588427)	16.7	93.57619	98.91984	145.77686	13.63299	0.0520970	3.0544764642001
(588428)	16.9	246.73768	273.90098	169.57830	15.37383	0.0384853	3.0742453642001
(588429)	16.9	217.72027	188.37680	314.66485	13.56205	0.1314283	2.3820161642002
(588430)	17.0	220.48648	333.42386	149.59735	10.59782	0.0537764	3.0029967642002
(588431)	17.3	216.22504	192.58901	311.37892	9.80264	0.0434763	2.9795627642002
(588432)	17.0	115.83779	220.68938	341.35039	7.50312	0.1660112	3.1162530642002
(588433)	18.6	129.81998	122.19665	66.03273	2.53855	0.1223509	2.4694634642003
(588434)	17.4	146.17742	117.41299	47.25303	4.42203	0.1434398	3.1221521642003
(588435)	17.3	320.81958	253.99504	147.31429	10.66360	0.0448357	2.9383280642003
(588436)	16.5	44.71610	336.74396	328.63289	9.55923	0.0543252	3.0155578642004
(588437)	17.7	320.81576	314.10661	114.88421	6.72859	0.0971534	2.3542108642004
(588438)	17.7	101.15353	332.57562	270.25647	5.65301	0.2264294	2.4263400642004
(588439)	18.6	248.64589	219.44418	239.71543	3.11688	0.1151810	2.3950284642005
(588440)	16.5	24.71673	247.20296	65.46994	7.46853	0.0447181	3.0951627642005
(588441)	16.9	98.86627	69.73369	152.37358	9.85384	0.0568774	3.0961494642005
(588442)	18.6	209.78287	331.26306	154.81095	1.38865	0.1372866	2.4307957642006
(588443)	18.9	279.76042	241.09166	199.35600	2.14966	0.1433033	2.3837956642006
(588444)	18.4	287.89887	332.25282	191.85736	2.12603	0.1574136	2.3097683642006
(588445)	16.8	67.38801	251.71197	359.47333	15.71893	0.1922636	3.1609560642006
(588446)	18.3	213.08101	329.18058	143.64250	7.66805	0.0551025	2.4580850642007
(588447)	18.0	208.09732	301.19971	181.88084	6.74156	0.0533476	2.4591842642007
(588448)	16.7	165.11321	346.55484	189.60375	7.25776	0.1183807	3.0392609642007
(588449)	18.1	116.23013	273.79161	314.85067	2.88872	0.0925535	2.4360126642008
(588450)	16.9	205.25560	107.27236	52.25401	4.94574	0.1289606	2.9979192642008
(588451)	17.5	137.39936	45.13510	125.59596	2.35328	0.0968101	3.1301752642008
(588452)	17.3	30.30494	226.30570	71.61963	9.14771	0.2203786	2.4423042642009
(588453)	18.3	61.38702	175.84771	80.72642	3.66606	0.1704335	2.4636262642009
(588454)	17.0	177.79652	234.34660	310.31311	9.58328	0.0428945	2.9874496642009
(588455)	17.3	271.43564	284.02494	161.18663	9.25593	0.0703244	2.9857365642010
(588456)	17.9	29.44211	19.33430	292.43087	6.09814	0.1116254	2.4370463642010
(588457)	17.0	64.99367	343.85243	300.48158	9.43582	0.0300618	2.9872478642010
(588458)	18.8	42.71060	244.14753	188.16481	3.81039	0.1480106	2.2429661642010
(588459)	17.7	199.09929	14.09454	13.19512	2.60931	0.2998889	2.5327339642011
(588460)	16.9	89.51895	104.15817	88.88433	6.10049	0.0870065	3.1207280642011
(588461)	17.0	347.43671	60.06484	323.67588	9.46808	0.1347228	2.9837414642011
(588462)	18.2	303.78741	286.54734	124.13959	5.08874	0.1924070	2.3863366642012
(588463)	18.2	130.24865	129.01808	52.34841	2.98663	0.0406901	2.4705591642012
(588464)	18.4	164.86309	352.54368	180.44021	5.30654	0.0747708	2.4268754642012
(588465)	18.3	87.64168	322.21744	276.77921	5.29711	0.0719584	2.4307079642012
(588466)	16.9	88.39871	78.80568	150.91340	10.85190	0.1742648	3.1331881642013
(588467)	16.7	94.92298	272.99233	287.56970	3.02642	0.0699835	3.1978677642013
(588468)	17.2	83.96456	276.49609	338.50716	7.40467	0.1073341	3.0264999642013
(588469)	17.1	76.31165	79.06773	167.63910	15.76838	0.1929285	3.1242169642013
(588470)	16.5	228.35891	4.32698	119.25507	8.12337	0.1099716	3.0098822642014
(588471)	17.0	199.95091	334.79381	133.04004	10.76161	0.0812895	3.0841677642014
(588472)	16.5	154.56057	16.80658	92.48150	10.25662	0.1079379	3.1696931642014
(588473)	16.6	72.35038	183.26156	79.79516	6.58231	0.1059243	3.0742758642015
(588474)	16.8	252.08095	67.62637	18.04621	8.84505	0.0531511	3.0501221642015
(588475)	16.6	174.64372	4.19813	127.20073	17.21084	0.1398600	3.1316795642015
(588476)	17.1	272.01807	250.28289	161.62105	9.20696	0.0171155	3.0883315642016
(588477)	16.6	112.30986	66.15417	157.12594	17.08727	0.1231647	3.0919300642016
(588478)	16.8	340.47815	233.18681	146.95941	8.76840	0.0936280	2.9996548642016
(588479)	17.0	194.86746	349.06733	162.66767	10.85545	0.1218598	3.0530337642017
(588480)	17.0	354.03299	314.23504	346.05404	12.24941	0.1457159	2.5225589642017
(588481)	17.4	195.44091	76.92251	166.83418	4.42591	0.2092624	2.8838365642017

(588482)	17.9	208.44284	253.28143	232.95054	7.42023	0.2488030	2.4394269642018
(588483)	16.7	300.42181	336.94148	63.65729	5.97406	0.0255326	3.0969512642018
(588484)	18.3	66.17139	287.18210	303.10336	5.97104	0.2528136	2.5543847642018
(588485)	17.0	190.11846	98.01277	28.16409	9.81970	0.0388373	3.0731622642019
(588486)	16.8	57.67279	271.08263	20.66229	9.36396	0.0939676	3.0336814642019
(588487)	16.4	332.45780	11.52237	20.69454	11.19690	0.1255538	3.0081776642019
(588488)	16.9	120.57412	11.60969	217.97341	11.29947	0.0539851	3.0972978642019
(588489)	16.7	20.34911	154.06156	191.93903	9.12123	0.1453418	3.0023604642020
(588490)	16.7	104.39614	103.88726	146.37738	12.35503	0.0450797	3.0804679642020
(588491)	16.1	355.14545	337.00095	43.10357	14.83774	0.1112765	3.0166799642020
(588492)	16.1	11.63034	56.09819	307.99108	9.94057	0.1284284	2.9699139642021
(588493)	16.4	284.38306	40.56213	10.30481	9.72230	0.0094965	3.0724025642021
(588494)	17.5	15.09469	48.75886	57.55871	4.25089	0.0535167	2.7686208642022
(588495)	18.2	285.05606	172.18250	280.23603	4.32411	0.1235943	2.3644220642022
(588496)	16.1	96.69775	169.80949	122.61268	11.68101	0.1064965	2.9894167642022
(588497)	17.2	196.09383	162.34942	328.10785	10.04864	0.1356521	3.1031864642023
(588498)	16.7	200.96208	269.17289	205.95212	9.10859	0.0783972	3.1311468642023
(588499)	17.8	302.87329	38.44015	219.30175	2.08710	0.1513222	2.7050753642023
(588500)	17.0	227.56255	292.13771	186.60436	12.45498	0.1790142	3.0623685642024
(588501)	16.9	101.17042	84.03380	192.78537	15.57789	0.1194604	3.0289074642024
(588502)	16.6	334.21402	197.98625	207.15680	10.04397	0.1052275	2.9708277642024
(588503)	16.5	322.01582	159.04608	195.62986	11.90017	0.0687478	3.1658973642025
(588504)	16.2	97.65397	123.55773	94.41105	17.05537	0.1262474	3.0990203642025
(588505)	16.3	30.54746	224.91880	109.23035	9.10284	0.1285173	3.0662718642026
(588506)	16.9	286.98245	52.50501	12.27914	12.70332	0.0640080	3.0183329642026
(588507)	17.4	32.63181	120.01825	166.99598	1.12863	0.1598050	3.1445217642026
(588508)	16.3	42.67457	121.60376	144.26898	10.58135	0.1089159	3.1650379642027
(588509)	17.4	246.90215	5.48304	113.75565	2.81468	0.2159757	2.9909132642027
(588510)	16.5	96.40575	301.54830	316.29818	13.95562	0.1943377	3.0932217642027
(588511)	16.8	135.65802	269.43414	313.01388	11.90883	0.0764855	3.0391307642028
(588512)	16.7	69.64717	172.90615	138.15461	9.87950	0.1186285	3.0608885642028
(588513)	15.9	103.20001	305.06871	283.85367	25.69861	0.2728382	3.1441770642028
(588514)	17.0	101.01785	101.45351	104.61315	8.48531	0.0428494	3.2022145642028
(588515)	16.4	54.71004	286.78247	322.59834	5.98342	0.1223952	3.1781219642029
(588516)	16.4	115.59473	161.64148	44.17864	12.21129	0.0749703	3.1516451642029
(588517)	17.4	179.12892	292.43200	195.00544	4.74878	0.0975504	3.1379876642029
(588518)	16.8	123.93095	174.02656	348.61637	8.78958	0.0527432	3.2189592642030
(588519)	16.9	71.30065	265.02542	16.88812	10.97727	0.0248461	3.0502420642030
(588520)	16.8	123.74766	231.99176	341.86222	9.35906	0.1664647	3.1330986642030
(588521)	17.0	53.87582	66.17447	174.01154	3.27357	0.0710787	3.1805509642031
(588522)	16.9	21.27068	122.99047	217.18828	7.86722	0.1220669	3.0057850642031
(588523)	17.1	111.67834	195.90512	358.29611	4.44390	0.0694696	3.1788546642031
(588524)	16.9	269.92048	243.88207	259.55583	1.09829	0.0699951	2.9397575642031
(588525)	18.4	217.33675	106.82071	28.09046	2.95296	0.1403723	2.4222634642032
(588526)	18.0	199.18380	17.77364	136.71332	6.63332	0.0624582	2.4244764642032
(588527)	17.9	294.23684	331.68120	88.27070	2.62944	0.1651421	2.4123275642032
(588528)	16.3	47.03392	302.94304	1.47465	8.27814	0.1654295	3.1007831642033
(588529)	16.5	7.94801	215.07515	163.23462	11.62938	0.0740399	3.0272355642033
(588530)	16.6	304.54173	250.57959	169.79562	10.69534	0.1151583	2.9983432642033
(588531)	17.1	55.82776	95.93204	168.18822	9.57148	0.0690135	3.1438947642034
(588532)	16.7	292.35446	357.76822	59.37610	10.67886	0.0287677	3.1054921642034
(588533)	17.6	343.90862	202.71612	273.33117	1.03799	0.0202019	2.8536478642034
(588534)	17.3	113.35998	7.96445	190.21668	8.15768	0.1028450	3.1885194642034
(588535)	17.0	326.27904	41.58088	14.08269	9.97859	0.0804347	3.0010042642035
(588536)	18.4	82.06994	75.24147	167.19809	6.40698	0.1106443	2.5282733642035
(588537)	16.9	158.23331	14.16885	188.77788	16.24776	0.0233677	3.0822416642035
(588538)	16.7	129.44761	15.52978	188.49967	15.05212	0.1924866	3.1738031642036
(588539)	17.3	89.07413	255.34738	113.11145	3.15799	0.0866194	2.8678084642036
(588540)	16.6	8.67311	213.59614	162.40508	10.73343	0.0799435	3.0108086642036
(588541)	16.1	208.24999	335.44054	161.38187	10.17973	0.0708215	2.9869054642037
(588542)	17.5	40.38952	217.95317	64.02380	13.64136	0.1362091	2.5470932642037
(588543)	17.7	323.24052	202.85021	57.18294	3.88539	0.0633802	2.6486842642038
(588544)	16.4	179.17564	54.69608	157.88185	10.32344	0.0719479	3.0521755642038
(588545)	16.0	288.98288	311.03868	188.87348	14.93236	0.2319386	3.9659573642038
(588546)	16.7	107.62431	172.44345	94.85220	9.66694	0.0500445	3.0882895642039
(588547)	17.3	73.69024	179.36079	55.15674	6.00009	0.1759858	3.2124042642039
(588548)	17.1	77.29075	300.22093	334.32572	4.88858	0.0921680	3.0971965642039
(588549)	17.7	55.46461	308.36900	12.88140	7.04491	0.1145276	2.4208091642040
(588550)	16.6	129.46691	29.19873	183.07316	16.79750	0.1314505	3.1232151642040
(588551)	18.8	290.49941	220.69414	190.80664	21.26906	0.0553584	1.8194825642040
(588552)	17.2	265.14986	78.51331	46.17656	7.57627	0.1012754	2.9887453642040
(588553)	16.9	157.15229	112.36104	43.00048	26.90696	0.2793792	3.1742076642041
(588554)	17.2	158.01530	8.48742	178.08694	10.67729	0.0568845	3.1104723642041
(588555)	17.0	246.37405	94.43143	30.44855	11.74658	0.0618877	3.0354558642041
(588556)	16.5	268.41861	310.07611	142.62180	10.10911	0.0919001	3.0674340642041
(588557)	18.0	341.09993	283.72826	100.56472	2.46155	0.1964775	2.4424710642042
(588558)	17.9	150.49688	15.64583	128.74514	5.96243	0.1568525	2.5352497642042
(588559)	16.5	17.92253	313.51033	24.01123	10.43414	0.0810380	3.0988601642042
(588560)	17.0	288.38678	18.14063	54.40295	2.62677	0.1235350	3.0606399642043
(588561)	16.5	32.08273	288.83996	44.07396	10.49622	0.1217485	3.1084177642043
(588562)	16.8	257.85846	321.51687	149.38158	8.82283	0.0335445	3.0444937642044
(588563)	17.2	168.77160	5.26306	169.72760	10.09522	0.1089642	3.1012302642044
(588564)	16.5	285.80879	342.11604	78.42479	10.87568	0.0929935	3.1002043642044
(588565)	16.8	144.13668	85.50689	110.79011	10.47378	0.0298161	3.1773042642044
(588566)	16.8	84.96918	150.18958	147.12079	9.68713	0.0486406	3.0280399642045
(588567)	16.8	257.30724	36.03055	84.55151	11.78009	0.1192583	3.0477825642045
(588568)	17.1	278.98258	44.79677	50.74841	11.19030	0.1047155	3.0267117642045
(588569)	17.2	298.66280	83.57982	339.06717	10.08373	0.0759434	3.0044160642046
(588570)	16.4	290.45793	46.12231	324.15705	16.40305	0.0439282	3.2028606642046
(588571)	17.1	258.08249	336.98844	274.91293	7.15252	0.0182550	2.7665039642046
(588572)	16.1	102.50362	168.55676	98.96339	12.79861	0.1114797	3.0945981642047
(588573)	16.9	118.12682	196.20328	71.13199	6.77171	0.1100011	3.0886700642047
(588574)	16.4	77.57060	254.29329	12.20791	9.86902	0.1531961	3.1124736642047
(588575)	16.7	354.16723	307.06082	96.33559	9.97720	0.1156181	3.0038065642048
(588576)	17.1	91.35727	244.77872	20.46377	12.11927	0.0809926	3.1282153642048
(588577)	16.3	84.66264	238.81556	47.89606	17.89279	0.1150415	3.0947368642048
(588578)	16.9	165.33233	102.87137	97.97897	13.06271	0.0196556	3.1154098642048
(588579)	16.4	212.98968	43.48342	71.79578	14.78875	0.0531561	3.1722438642049
(588580)	16.9	270.78938	311.51609	151.67553	11.72890	0.0930039	3.0474271642049
(588581)	16.6	262.13900	21.26893	120.79278	10.38193	0.0742079	3.0137881642049
(588582)	18.9	5.98598	253.96416	59.55634	3.60369	0.1626595	2.1228991642050
(588583)	17.2	235.68324	86.02422	14.95854	2.45642	0.1391294	3.0996703642050
(588584)	18.1	81.20998	102.17137	143.95562	10.94360	0.0798512	2.5267598642050
(588585)	16.1	49.20900	237.92618	85.71068	13.42684	0.1512004	3.1454997642050

(588586)	17.1	110.64477	145.50074	106.22686	11.19963	0.0792021	3.1212748642051
(588587)	17.2	147.22014	175.87286	36.01850	5.57689	0.0879101	3.0841380642051
(588588)	17.4	263.00372	325.61124	105.32106	2.25443	0.1671630	2.4698011642051
(588589)	16.7	351.75195	271.37481	109.75635	12.40322	0.0393764	3.0990435642052
(588590)	17.6	0.27266	222.94972	120.30868	10.21477	0.2607847	2.5628048642052
(588591)	18.3	94.19616	242.28212	328.67981	2.50867	0.1234808	2.5517829642052
(588592)	16.4	76.26120	213.42015	60.02334	17.81008	0.1388136	3.1721546642053
(588593)	16.9	267.07390	33.48745	55.96226	9.67230	0.1038521	3.0928927642053
(588594)	18.2	251.13458	326.15428	111.06163	4.90605	0.0600681	2.5180170642053
(588595)	16.6	40.82036	101.02071	222.56419	10.78200	0.0835710	3.1589543642053
(588596)	16.9	128.91279	136.62305	81.94819	12.56728	0.0346008	3.1641363642054
(588597)	17.8	78.51913	129.66278	93.56164	6.55455	0.1949469	2.5503830642054
(588598)	15.8	96.89006	341.76221	279.97954	16.12549	0.1792477	3.1371266642054
(588599)	16.4	194.74947	119.08690	81.92266	8.62656	0.1240627	3.0359388642055
(588600)	17.5	72.86766	173.06460	65.15579	13.45667	0.1260032	2.5558023642055
(588601)	18.2	48.28053	117.89523	137.48311	3.79219	0.1683555	2.5802791642055
(588602)	16.0	9.12144	308.07550	62.83637	17.43171	0.0878860	3.1234745642056
(588603)	16.1	175.54562	344.17573	234.37679	9.40945	0.0670880	3.0617397642056
(588604)	18.3	152.44254	80.61450	220.73552	6.11866	0.1157061	2.3914665642056
(588605)	16.9	278.16354	18.50679	60.16484	13.87608	0.0963023	3.0938984642057
(588606)	18.3	37.42996	155.34993	150.42189	4.01524	0.1072877	2.5285736642057
(588607)	18.2	106.68952	72.99272	135.77894	4.33037	0.1164765	2.5386190642057
(588608)	17.0	31.78790	124.97768	191.85954	14.78421	0.1568656	2.5344997642058
(588609)	17.9	4.99910	125.08002	213.35470	10.59939	0.1963309	2.5487213642058
(588610)	17.4	324.83820	191.42555	119.97983	15.18601	0.2478134	2.6618028642059
(588611)	18.0	28.17667	136.27211	178.72966	13.18201	0.2803105	2.5607181642059
(588612)	16.6	82.85166	66.60720	203.34119	11.27884	0.1147594	3.1866375642059
(588613)	18.2	36.86477	145.71776	145.99326	7.11281	0.2115447	2.5650851642059
(588614)	15.9	333.41518	246.28219	143.33285	9.93709	0.0840396	3.1762789642060
(588615)	16.8	102.33431	136.26321	118.92159	10.54417	0.0865456	3.1843612642060
(588616)	16.1	353.09698	264.89963	109.19066	15.07802	0.2069599	3.2057878642060
(588617)	16.2	318.60081	304.12721	114.98230	10.62774	0.0641253	3.1222128642061
(588618)	17.6	356.27716	158.20397	187.00340	12.02538	0.2023821	2.5680645642061
(588619)	16.3	63.27186	109.04093	212.05801	24.07289	0.2046735	3.1454421642061
(588620)	17.1	145.90850	183.41117	126.83394	13.01206	0.1139182	2.9738723642062
(588621)	16.5	68.29269	213.62625	97.20903	9.99139	0.0641008	3.1248818642062
(588622)	16.7	152.50223	338.03680	239.05444	9.85283	0.0618914	3.1377785642062
(588623)	16.8	287.53915	292.55674	132.25116	9.91812	0.0337273	3.1995072642063
(588624)	16.2	23.39509	100.51850	240.46355	7.40872	0.1503300	3.2012547642063
(588625)	18.1	41.32988	230.25646	74.94527	5.77720	0.2450828	2.5469048642063
(588626)	16.7	288.45220	0.27203	100.04154	10.27946	0.0364747	3.0687610642063
(588627)	16.8	287.42602	33.99097	74.22975	11.27916	0.0862012	3.0442221642064
(588628)	16.6	70.65341	143.35290	138.58739	10.24085	0.0723106	3.1716141642064
(588629)	19.2	337.91571	290.87066	79.76951	25.87324	0.1434860	1.8358467642064
(588630)	16.8	89.19649	152.24135	117.40647	12.01161	0.0537491	3.1808340642065
(588631)	14.0	359.52009	60.47866	221.16788	37.45742	0.0550393	5.1211901642065
(588632)	18.2	7.46649	109.20911	219.63045	14.26034	0.1322766	2.5610788642065
(588633)	16.0	352.93756	232.15071	150.30557	11.17400	0.0890800	3.1778857642065
(588634)	17.1	61.70485	346.40223	276.24707	10.94326	0.2232760	2.5905195642066
(588635)	15.7	142.55637	316.30385	272.25253	13.56123	0.0356513	3.2387224642066
(588636)	17.6	62.44158	358.62204	257.32424	4.04927	0.2378646	2.6003117642067
(588637)	17.8	33.68723	159.39834	150.15250	9.70007	0.1199948	2.5981763642067
(588638)	14.1	345.79785	53.46415	340.89704	30.93497	0.0776356	5.2015994642067
(588639)	17.5	145.83899	293.82057	281.84151	5.47228	0.0346306	2.5582705642068
(588640)	17.2	1.50998	122.66405	252.32169	13.77955	0.1162420	2.5704194642068
(588641)	14.5	277.45891	293.86673	162.92109	12.61454	0.0373995	5.1461094642068
(588642)	17.3	239.64064	176.79145	317.84493	12.79864	0.1278474	2.5601703642068
(588643)	17.8	18.06811	156.24197	179.27290	14.82505	0.2004195	2.6023389642069
(588644)	14.4	312.85134	251.83248	163.37810	7.91635	0.0999675	5.2422885642069
(588645)	17.8	22.23854	105.57480	211.48174	5.60416	0.1774144	2.6104292642069
(588646)	17.9	15.76645	296.87729	22.79386	0.82224	0.2156450	2.6187320642070
(588647)	14.9	324.28672	81.07623	341.16178	9.58104	0.1062807	5.2026916642070
(588648)	17.1	51.68284	161.94021	140.75459	22.36590	0.0072256	2.5888719642070
(588649)	16.8	335.57241	34.49467	350.75027	9.09944	0.0813423	3.4213324642071
(588650)	16.6	40.21587	359.97670	329.25269	15.42417	0.0611143	3.3392474642071
(588651)	17.5	299.39593	43.91264	331.44094	4.74573	0.1896199	2.6896215642071
(588652)	17.4	39.86085	58.42846	191.87721	16.61031	0.3140515	2.6591924642071
(588653)	17.0	345.66974	19.74988	349.65489	12.59330	0.3001470	2.6437651642072
(588654)	17.5	10.73437	135.47628	196.33522	10.98916	0.3125769	2.6273798642072
(588655)	17.2	346.37837	277.93808	82.92763	6.16801	0.3167444	2.6452174642073
(588656)	14.3	327.91931	87.66862	310.26537	7.00044	0.0670104	5.3085373642073
(588657)	18.4	308.77570	223.57186	183.28339	22.97585	0.1421642	1.8827382642073
(588658)	17.5	293.28400	141.77393	229.81085	21.53638	0.0850238	1.9145142642074
(588659)	16.9	65.95099	331.83409	282.59917	13.32637	0.2309926	2.6120443642074
(588660)	17.8	9.87539	115.46954	207.88874	11.09493	0.1318832	2.6298521642074
(588661)	16.3	13.37264	115.89368	280.61327	13.39716	0.0849900	3.2364406642075
(588662)	17.1	84.39563	296.07154	328.67597	10.09504	0.0487531	2.6369407642075
(588663)	14.5	318.80147	120.53951	314.83706	6.90745	0.0149434	5.1934640642075
(588664)	17.1	248.73691	106.50670	291.46602	3.63155	0.0754063	2.7644004642076
(588665)	17.8	291.72477	58.66367	342.90655	8.63951	0.1297871	2.6922947642076
(588666)	17.6	53.33673	321.45881	321.57803	11.46363	0.1871717	2.6192672642076
(588667)	16.5	143.32542	13.72152	303.91559	8.01952	0.0602278	3.1140645642076
(588668)	14.9	12.34789	217.21731	157.89477	6.22930	0.1508423	5.2326838642077
(588669)	17.2	350.58372	227.79595	142.23515	5.93489	0.1699913	2.6325146642077
(588670)	17.9	14.85239	175.09663	177.04721	6.68371	0.1565307	2.5992155642078
(588671)	18.8	103.35393	236.20015	337.13059	4.11585	0.1053481	2.1882541642078
(588672)	17.7	22.66897	118.59643	189.79941	5.93030	0.2418864	2.6543029642078
(588673)	17.3	277.37048	277.08814	166.79254	14.06764	0.1434120	2.6287316642078
(588674)	17.6	332.96434	263.77513	102.54385	3.03528	0.1006400	2.6799562642079
(588675)	17.5	354.31567	160.56657	190.42432	11.77693	0.1983889	2.6686553642079
(588676)	14.2	9.63827	20.88848	3.28006	19.15506	0.0600553	5.1826367642079
(588677)	13.9	323.32800	249.67674	154.99571	19.85466	0.0994196	5.2334341642080
(588678)	13.8	270.12270	121.36584	346.19488	17.20494	0.0617990	5.3075258642080
(588679)	14.5	7.67733	201.18429	187.04652	17.85277	0.1327051	5.2030051642081
(588680)	17.7	6.70373	157.35540	179.60646	14.10693	0.2760380	2.6395218642081
(588681)	17.7	60.50250	256.98472	15.13454	12.09127	0.1647854	2.6516706642081
(588682)	19.1	86.89069	291.16512	308.58776	4.13308	0.1701237	2.1840830642081
(588683)	17.4	3.26597	189.87067	169.67324	15.20879	0.1181808	2.6038672642082
(588684)	18.4	334.70551	50.36974	166.48923	7.05811	0.2666293	2.3098317642082
(588685)	17.8	288.02830	176.75517	230.78656	5.31272	0.0425377	2.6897922642082
(588686)	17.5	53.03575	132.09085	161.06212	3.73573	0.0802100	2.6314284642083
(588687)	17.6	258.41637	89.62247	349.73116	14.12348	0.1412095	2.7128681642083
(588688)	17.4	21.70381	353.46585	318.42781	4.79533	0.1546773	2.6481141642083
(588689)	17.8	349.78219	166.56584	185.33210	6.24842	0.1186938	2.6503147642083

(588690)	17.6	17.09602	169.87638	171.34597	12.98733	0.2068392	2.6282263642084
(588691)	14.4	322.18419	255.79894	172.76127	31.27345	0.0472985	5.0814532642084
(588692)	18.4	183.34374	257.36384	62.57619	2.06079	0.1809574	2.4041651642084
(588693)	14.7	0.57816	81.77365	304.26148	5.69151	0.1437704	5.2342262642085
(588694)	14.4	349.70776	223.68892	171.54610	30.34719	0.0515932	5.1200774642085
(588695)	18.0	233.87643	223.43400	212.98427	6.52667	0.2070923	2.7528155642085
(588696)	16.8	349.26864	248.67986	196.03953	7.70808	0.0109690	3.1993764642086
(588697)	14.7	7.12564	359.79237	22.30569	3.84139	0.0551687	5.2573771642086
(588698)	14.4	30.02031	104.34418	254.76895	6.48445	0.0636701	5.2795856642086
(588699)	17.1	13.67518	241.73073	103.13476	13.17786	0.3050390	2.6303067642087
(588700)	14.5	12.19479	3.19762	14.97892	7.46338	0.0597523	5.1794611642087
(588701)	18.0	300.36355	229.39576	184.72977	1.85144	0.0432832	2.6358672642087
(588702)	14.1	316.36359	76.46379	350.41094	34.38690	0.0455532	5.2808133642087
(588703)	16.5	320.80726	45.85389	7.09370	9.51633	0.0763895	3.4164542642088
(588704)	17.6	320.59123	13.29570	353.44728	5.89585	0.0546180	2.6835142642088
(588705)	17.3	350.31778	317.92264	25.17127	7.55560	0.1778835	2.6663215642088
(588706)	17.1	321.98999	249.79557	178.62163	12.88281	0.2335632	2.6082480642088
(588707)	18.8	32.13922	109.39871	190.67168	4.28937	0.1568431	2.1712767642089
(588708)	14.2	316.61544	255.31269	169.68708	20.15703	0.0858383	5.1957831642089
(588709)	18.5	109.52483	45.23665	175.80536	8.52108	0.1161940	2.1925955642089
(588710)	17.4	344.99517	37.17729	349.55085	12.72099	0.1842400	2.6350650642090
(588711)	17.7	87.09971	160.23106	70.59127	0.47790	0.1088327	2.6709675642090
(588712)	17.3	352.27163	309.34866	27.02188	12.37533	0.1595767	2.6958065642090
(588713)	18.0	356.75769	137.16863	266.82330	2.53790	0.1358673	2.5609235642091
(588714)	18.9	333.34694	181.41534	202.87709	6.78096	0.1574812	2.1956341642091
(588715)	16.9	350.00492	165.55122	193.43698	14.26042	0.1830912	2.6500187642091
(588716)	18.6	141.06954	140.64420	245.74113	0.56790	0.1942154	2.4077496642092
(588717)	18.6	35.18989	358.34811	305.17798	2.86234	0.2096895	2.1832819642092
(588718)	16.4	41.34198	220.65909	215.41527	13.45591	0.0485801	3.1714022642093
(588719)	18.3	23.54639	164.04897	149.82783	3.95970	0.1736743	2.6383708642093
(588720)	17.1	126.60373	32.17032	348.33339	1.62246	0.0695321	3.0960343642093
(588721)	14.6	23.80204	316.93133	64.88896	6.07941	0.0775130	5.2241826642094
(588722)	17.6	8.40121	104.52438	270.70983	8.81137	0.1317732	2.6045421642094
(588723)	17.6	294.16733	148.96066	293.82538	3.84060	0.1398475	2.6120899642094
(588724)	14.0	323.03190	110.05701	326.69126	10.29118	0.0660389	5.2523993642095
(588725)	17.4	50.46939	39.87088	197.78633	8.01541	0.1264402	2.7251842642095
(588726)	17.7	21.73358	177.73421	153.65509	7.46046	0.2881360	2.6328618642095
(588727)	17.6	237.15743	139.31471	334.59462	5.49072	0.1145883	2.6760895642096
(588728)	14.2	324.67805	207.61138	196.65829	20.16562	0.0832791	5.1939913642096
(588729)	17.3	260.62065	185.81261	280.90406	13.14682	0.2058343	2.6214411642096
(588730)	18.0	225.77360	174.33220	315.67944	7.14011	0.0517254	2.1853588642097
(588731)	18.1	279.76488	233.48452	202.12357	1.85877	0.1437594	2.6629984642097
(588732)	17.8	88.93342	316.07280	327.74584	6.59203	0.1869067	2.5804191642097
(588733)	14.2	238.58100	200.61718	306.81778	6.35476	0.0224133	5.2937996642098
(588734)	18.1	266.85818	339.94836	88.83755	3.46254	0.0526213	2.6943824642098
(588735)	14.7	349.05772	327.13500	83.56408	4.69206	0.0632589	5.2506079642098
(588736)	17.3	268.63897	71.97238	9.00411	22.12296	0.0532008	2.6731045642098
(588737)	18.3	341.63740	315.85549	48.96953	6.07087	0.1608748	2.2027003642099
(588738)	14.5	3.01369	34.10838	2.87943	20.53534	0.1447599	5.2029808642099
(588739)	17.2	9.71288	209.03899	169.10639	6.36363	0.0895071	2.6222486642099
(588740)	14.2	157.36785	330.54691	262.81107	6.58826	0.0725684	5.1958469642100
(588741)	17.1	6.38214	266.14721	93.46665	13.52571	0.3121702	2.6312422642100
(588742)	17.5	27.17475	66.09004	264.18414	10.67773	0.2553016	2.6232993642100
(588743)	17.0	58.70059	29.13167	309.32078	9.47780	0.1346128	2.5605485642101
(588744)	17.4	331.50217	55.87315	331.75363	5.58218	0.0542840	2.6863852642101
(588745)	17.3	324.49985	359.33314	11.95244	5.71889	0.1174890	2.6969906642101
(588746)	17.4	24.06686	210.44240	100.04920	3.17821	0.0842416	2.7031025642102
(588747)	17.6	254.05692	215.17244	252.16096	9.23544	0.1699075	2.6995106642102
(588748)	17.7	341.57278	101.93339	258.31670	5.06171	0.0451174	2.6843912642102
(588749)	17.9	93.65567	253.57725	330.19738	5.19747	0.0555186	2.6885482642103
(588750)	14.3	336.81322	249.01933	170.31834	13.45365	0.0950345	5.2308932642103
(588751)	17.2	293.35585	70.58560	0.55392	13.24841	0.0812978	2.6305391642103
(588752)	17.7	353.26743	287.36301	64.23674	6.83312	0.0639628	2.6835204642104
(588753)	13.9	218.57586	297.41991	234.23981	12.65376	0.0080160	5.3051006642104
(588754)	17.7	14.35998	253.26411	70.11301	5.57211	0.0247550	2.6974180642104
(588755)	17.2	2.10125	329.39002	61.41663	14.15032	0.1640104	2.6561976642105
(588756)	17.9	265.52710	284.57081	119.32719	1.82485	0.0754212	2.7443692642105
(588757)	18.2	263.85596	103.04310	358.40860	3.84235	0.1442204	2.6743694642105
(588758)	17.8	188.07604	59.47713	80.41352	3.25531	0.0211525	2.6943754642105
(588759)	17.9	43.75797	19.71026	283.05810	2.80513	0.2253202	2.6596263642106
(588760)	17.9	303.63217	303.78851	114.56941	2.98192	0.0876470	2.6526664642106
(588761)	14.3	317.80082	19.14314	68.18225	10.93278	0.0477633	5.3489191642106
(588762)	18.3	1.12580	199.55981	220.24964	1.42678	0.2031342	2.5719223642107
(588763)	14.9	37.50598	35.52176	329.24953	6.22678	0.0833365	5.2588833642107
(588764)	18.2	273.99736	26.15007	11.90864	22.04974	0.0808636	1.9058813642107
(588765)	17.1	44.43881	58.47934	4.49301	10.10851	0.1172976	3.1780917642107
(588766)	14.4	321.81839	70.51383	6.17556	12.74384	0.0781903	5.2909697642108
(588767)	18.9	6.35598	256.44300	54.59213	6.54700	0.2135106	2.2141530642108
(588768)	18.7	352.85010	245.12135	95.51760	3.31691	0.2059096	2.2048814642108
(588769)	18.2	314.22991	64.30060	341.87066	1.62346	0.2090090	2.6851877642108
(588770)	18.6	138.82318	148.53927	249.74046	0.37842	0.1763866	2.3969282642109
(588771)	17.0	5.62785	157.66831	170.59010	8.25338	0.2638147	2.6618683642109
(588772)	17.1	8.23872	306.15084	28.41797	14.20088	0.1858551	2.6539932642109
(588773)	18.7	345.22819	242.39610	109.35036	3.71630	0.2401004	2.1951429642110
(588774)	17.6	23.36004	153.34929	181.44992	12.44354	0.1444946	2.6304090642110
(588775)	17.4	330.49818	235.04561	177.93867	8.97876	0.0886961	2.6155688642110
(588776)	18.2	138.85856	112.64951	294.42761	5.27761	0.2324374	2.3982287642110
(588777)	16.5	230.71213	342.99859	279.86795	9.29361	0.0998759	3.1061331642111
(588778)	17.3	102.86912	210.76006	19.14467	17.12967	0.0881746	2.7013492642111
(588779)	17.8	108.21095	26.85050	205.09427	3.97360	0.0185131	2.6959177642111
(588780)	16.8	293.79266	230.09483	211.33862	21.43967	0.0608777	2.6642734642111
(588781)	14.3	330.31279	300.05247	133.09642	8.27638	0.0930293	5.2208450642112
(588782)	17.4	337.67647	272.48569	82.98012	7.34750	0.0532078	2.7015277642112
(588783)	17.9	159.67719	165.12810	355.43089	3.29650	0.0296954	2.7409719642112
(588784)	16.9	167.16548	344.76986	356.67872	1.59348	0.0262475	3.0641626642113
(588785)	17.6	229.13110	318.39586	161.42096	7.35947	0.2543988	2.7295440642113
(588786)	17.8	239.98723	120.59728	346.24926	5.70067	0.0972757	2.7095567642113
(588787)	17.9	62.98104	234.85180	39.26016	4.59267	0.0536024	2.7183307642114
(588788)	17.0	205.18175	218.69007	298.97851	22.34925	0.2112007	2.2993212642114
(588789)	17.8	18.98491	111.89490	208.45974	15.83807	0.2408216	2.6685822642114
(588790)	17.8	301.54147	220.78892	178.61855	1.82062	0.0373570	2.6643126642114
(588791)	17.5	346.62177	225.48645	134.02814	13.77957	0.2454454	2.6700701642115
(588792)	17.9	238.39781	249.12903	229.65456	7.84349	0.2023670	2.7152568642115
(588793)	17.8	221.23236	315.51415	157.05682	5.98171	0.1236872	2.7111531642115

(588794)	18.0	311.40695	251.24086	300.00654	4.27835	0.1198755	2.4396328642115
(588795)	18.8	262.71920	240.44339	205.85828	5.39435	0.1116757	2.2105055642116
(588796)	14.7	327.99163	179.69831	242.65666	9.28925	0.1240341	5.1514234642116
(588797)	17.4	146.61723	262.34801	70.15803	2.28685	0.1609612	3.1255308642116
(588798)	17.6	77.55208	36.70987	229.99913	11.23684	0.0951409	2.6736707642117
(588799)	17.2	328.69360	250.83610	138.83763	6.66998	0.1475198	2.7080510642117
(588800)	18.3	49.22289	290.47313	172.39421	2.80940	0.1590143	2.4506210642117
(588801)	17.5	266.76555	303.93274	126.26557	5.17061	0.0691018	2.7398441642117
(588802)	14.4	10.62341	10.15608	26.73325	18.96360	0.1155889	5.2066884642118
(588803)	17.5	142.09763	208.91409	162.46679	1.00078	0.1603534	3.0410227642118
(588804)	16.4	325.05704	295.70727	203.45262	10.95254	0.0516348	3.1975835642118
(588805)	17.4	25.41498	315.34464	20.07166	5.34928	0.1162584	2.6369371642119
(588806)	17.6	33.40608	331.39236	350.70296	1.53694	0.0308588	2.6619315642119
(588807)	17.6	178.28301	137.44189	5.74858	5.01577	0.0483225	2.7404596642119
(588808)	18.3	316.27661	328.46127	40.72662	19.66431	0.1101463	1.9148773642119
(588809)	17.4	65.92069	250.60240	29.47769	3.17900	0.0943720	2.6732629642120
(588810)	17.3	190.58172	101.61846	42.21654	3.87452	0.1336935	2.7448738642120
(588811)	16.2	42.76108	304.06700	16.46432	17.22727	0.0646348	3.4581312642120
(588812)	17.1	40.32377	4.02463	294.12837	4.43555	0.0350573	2.7307751642121
(588813)	17.6	292.82545	2.90929	44.39471	6.29054	0.0259571	2.6812119642121
(588814)	17.7	314.67391	347.56738	38.93523	4.79372	0.1050533	2.7042821642121
(588815)	17.4	354.73891	252.75444	93.96707	6.68142	0.3389135	2.6521159642122
(588816)	17.5	270.47047	270.76273	223.37407	3.98500	0.1142389	2.6143070642122
(588817)	17.5	23.91482	162.43144	144.95141	7.99146	0.1617070	2.6732339642122
(588818)	18.4	10.39444	349.28422	1.66371	6.77447	0.0120629	2.2010516642122
(588819)	18.6	300.94193	113.14526	303.95657	5.79326	0.0217473	2.2098873642123
(588820)	17.4	295.65774	173.42542	263.73648	7.46846	0.1194114	2.6830764642123
(588821)	18.1	358.49518	62.32126	253.39618	11.27495	0.3131302	2.7145741642123
(588822)	17.4	335.81647	68.69757	299.37455	4.93412	0.0527515	2.7229475642123
(588823)	17.0	351.39295	100.65200	261.96041	11.37859	0.2098834	2.6853507642124
(588824)	17.4	195.88217	312.67132	221.71174	13.06886	0.1187402	2.6790864642124
(588825)	16.8	34.47546	60.53426	253.60004	20.16538	0.1319819	2.7049658642124
(588826)	17.2	171.99366	228.99172	289.38574	2.02839	0.0270597	2.7577000642125
(588827)	17.6	339.38684	17.63241	344.30453	1.04505	0.0958552	2.7169940642125
(588828)	18.6	18.67392	83.49034	233.31561	3.54353	0.1720072	2.2018418642125
(588829)	17.6	277.24758	223.28858	221.35656	21.44218	0.0510729	2.6766813642126
(588830)	17.9	286.89998	177.19173	262.83623	1.70037	0.0588444	2.6858621642126
(588831)	17.1	333.78919	301.24018	61.47606	16.30292	0.0824687	2.7078891642126
(588832)	17.5	358.28174	115.67389	245.28910	10.35029	0.3205037	2.6412240642126
(588833)	16.9	11.53869	225.99041	134.97554	4.46288	0.1268871	2.6501273642127
(588834)	17.2	339.77795	160.70050	243.75412	10.84128	0.1703213	2.6350376642127
(588835)	17.6	337.74446	339.04839	7.81147	4.79946	0.0968979	2.7464806642127
(588836)	17.6	294.81546	178.63560	250.36064	11.16995	0.1569613	2.7046098642128
(588837)	14.7	338.85945	95.38921	336.23144	5.89666	0.0820118	5.2221767642128
(588838)	18.9	255.16997	74.05197	352.96820	4.97187	0.1139527	2.2374252642128
(588839)	18.4	212.10074	222.74231	254.59090	6.86245	0.0589883	2.2432083642128
(588840)	18.6	46.28066	22.20725	267.04259	7.15140	0.0972485	2.2251029642129
(588841)	17.4	348.09497	299.95740	78.70787	14.26479	0.2889155	2.6509897642129
(588842)	17.6	0.05039	160.09767	192.58731	3.72874	0.1326317	2.6889237642129
(588843)	17.6	0.83239	345.55415	358.94852	5.83973	0.0553944	2.6975148642129
(588844)	17.7	202.66283	133.91326	27.39818	4.74071	0.0493237	2.6980026642130
(588845)	17.8	236.82343	73.07919	41.66397	9.91501	0.1529993	2.7394776642130
(588846)	17.1	59.01382	55.23592	230.70707	3.75567	0.1889064	2.6900731642130
(588847)	17.6	101.66646	50.27388	214.33625	1.94723	0.0794941	2.6540060642131
(588848)	17.5	206.81224	264.90148	212.99901	12.24268	0.1611907	2.7796565642131
(588849)	17.3	341.72383	3.55547	318.85333	3.59313	0.0686761	2.7878542642131
(588850)	18.1	57.33313	287.08046	313.75472	2.96757	0.1282180	2.2590616642132
(588851)	16.5	59.34986	353.26305	307.35262	5.54856	0.1061510	2.6749842642132
(588852)	18.9	55.28755	322.16631	311.10667	4.55304	0.1350637	2.2093709642133
(588853)	16.8	198.89068	289.83786	246.16732	11.60994	0.1453743	2.6706664642133
(588854)	18.9	147.94589	278.52960	280.81359	4.77916	0.0282659	2.2118593642133
(588855)	16.9	181.54950	264.38875	259.69248	11.99028	0.1508805	2.7294599642134
(588856)	17.5	53.03356	215.98670	62.53337	2.69102	0.0602832	2.7479448642134
(588857)	16.8	316.25506	321.10890	110.54778	7.87529	0.1767358	2.6510690642134
(588858)	17.7	42.27125	228.08056	62.51847	5.86975	0.0924466	2.7016604642134
(588859)	17.6	265.67946	26.54212	81.21120	2.90300	0.2257234	2.7137159642135
(588860)	17.3	0.07590	297.08260	63.47881	12.32070	0.2064168	2.6421167642135
(588861)	13.8	351.26244	101.95600	298.34516	6.36268	0.0770305	5.2674572642135
(588862)	16.5	317.16195	350.82342	45.07973	22.57642	0.0800557	2.6724857642136
(588863)	17.8	249.78801	140.56414	315.53167	4.44241	0.0772050	2.7149951642136
(588864)	17.7	282.08759	300.71881	119.56157	5.89275	0.1061107	2.6956339642136
(588865)	17.8	110.82413	186.98596	61.77660	5.83633	0.0831039	2.6429184642137
(588866)	17.7	40.74751	13.14556	263.45081	6.22088	0.2984284	2.6465931642137
(588867)	17.4	144.70509	342.57134	226.43085	14.35790	0.0617417	2.6456772642137
(588868)	17.8	239.36400	264.50829	229.98500	10.53476	0.1273891	2.6763693642137
(588869)	17.8	80.00267	209.90128	110.61350	7.54915	0.1671806	2.5824331642138
(588870)	17.6	356.04553	257.37318	101.99288	2.95109	0.0819175	2.6954748642138
(588871)	17.9	116.97325	7.87350	193.64640	25.12950	0.1663970	2.2423810642138
(588872)	16.3	265.12015	110.38704	5.46170	8.54905	0.1033697	3.4687102642138
(588873)	17.8	320.64572	250.06392	120.39269	6.67322	0.0603851	2.7114498642139
(588874)	17.9	342.93634	84.90356	282.39289	5.49166	0.1310629	2.6700810642139
(588875)	17.7	312.70221	249.00602	122.82816	6.91490	0.0420448	2.7121430642139
(588876)	18.4	205.72451	189.84748	164.01026	1.78659	0.2051144	2.3724465642140
(588877)	17.7	298.19630	190.81992	235.09737	12.13738	0.0769717	2.6913202642140
(588878)	17.8	259.89802	0.33626	60.17277	1.93679	0.0816521	2.7515408642140
(588879)	17.7	34.42299	183.74593	115.83690	6.99270	0.0393531	2.6982387642140
(588880)	17.1	25.30209	182.42399	115.92848	12.75184	0.1410556	2.7139078642141
(588881)	17.4	144.26320	6.45163	144.12372	4.30401	0.0352655	2.8020228642141
(588882)	17.8	157.71567	290.61793	224.17471	3.57569	0.1208071	2.7760194642141
(588883)	17.7	33.66521	180.64453	127.77020	4.17919	0.0912927	2.6913008642141
(588884)	17.5	33.41287	87.62661	243.83755	5.64541	0.0959802	2.6604471642142
(588885)	17.7	339.15807	95.23385	254.64230	5.07485	0.0289198	2.7343392642142
(588886)	17.1	325.07788	358.43598	55.87515	15.38757	0.1177915	2.6489682642142
(588887)	17.7	337.01562	46.15388	345.28138	5.95465	0.0493506	2.6845598642142
(588888)	17.6	340.98841	205.06841	117.81573	3.78456	0.0226322	2.7970503642143
(588889)	18.1	357.64585	157.94927	188.26068	5.67647	0.0588659	2.6979203642143
(588890)	17.5	346.57691	272.41039	68.60118	6.11343	0.1321498	2.7134218642143
(588891)	17.9	80.64304	328.35973	357.75524	3.90411	0.0822900	2.5937884642143
(588892)	17.4	328.89493	315.64110	28.29011	5.67059	0.0822568	2.7634416642144
(588893)	17.5	186.46122	239.61365	250.32919	7.76702	0.1545131	2.8146477642144
(588894)	17.2	145.58734	2.27992	170.26035	4.25566	0.0118686	2.7764769642144
(588895)	17.5	281.62939	262.00198	195.71132	10.90229	0.1676855	2.6933711642145
(588896)	18.0	308.14755	266.30647	182.10976	7.90983	0.2951067	2.6704234642145
(588897)	16.1	186.52156	253.13465	68.95136	16.56846	0.1640357	3.1017097642145

(588898)	18.0	15.85476	228.00729	185.40801	5.24792	0.1287639	2.5969525642145
(588899)	16.9	356.85014	273.88617	94.44435	13.27317	0.2012893	2.7309711642146
(588900)	17.4	256.41813	118.21626	347.60560	11.53426	0.1243824	2.6923417642146
(588901)	17.4	23.45480	175.19834	147.32676	6.36164	0.0783014	2.7049504642146
(588902)	17.4	2.27296	192.98102	144.90094	5.40899	0.0653236	2.7261129642147
(588903)	17.4	356.51279	123.56100	221.33088	13.02172	0.0781485	2.7292693642147
(588904)	17.6	36.71018	217.81719	55.96704	11.21843	0.0520748	2.7742283642147
(588905)	17.4	52.67915	206.80928	84.07354	13.16225	0.2590136	2.6778127642148
(588906)	17.6	188.62249	245.26988	258.43928	10.18367	0.0831583	2.7122805642148
(588907)	17.1	67.88516	309.87170	305.42995	10.98710	0.1551398	2.7164176642148
(588908)	18.4	32.12804	349.86271	300.58678	4.42139	0.1677572	2.2208119642149
(588909)	17.8	238.98473	289.32196	192.10664	8.21812	0.1611256	2.7320511642149
(588910)	17.6	252.11445	19.73774	80.79454	6.01518	0.1175378	2.7383420642149
(588911)	18.1	6.12399	237.62913	107.57246	6.09478	0.1249919	2.6964375642149
(588912)	17.8	229.84247	236.29931	225.21264	8.11890	0.1169674	2.7764402642150
(588913)	17.0	189.42151	104.53715	55.75191	3.55855	0.0956996	2.7209251642150
(588914)	18.5	132.66195	295.07732	235.54779	4.25918	0.1132959	2.2944563642150
(588915)	16.3	40.05935	163.96796	88.22375	16.37324	0.0980079	2.8549494642151
(588916)	17.1	265.00875	60.52959	67.55713	22.73749	0.0304427	2.6749483642151
(588917)	17.7	291.23608	238.28300	215.47437	6.56454	0.1790684	2.6495320642151
(588918)	17.4	59.40258	36.91958	243.57211	3.36744	0.0264739	2.7656061642151
(588919)	18.3	115.17905	125.49481	66.06934	7.58570	0.1657406	2.2947603642152
(588920)	16.9	180.22996	196.59640	170.83550	5.04000	0.1439875	3.0532341642152
(588921)	17.4	198.17583	40.98824	90.45365	4.95311	0.1248212	2.7947843642153
(588922)	18.4	76.82553	71.74914	172.59848	4.77355	0.1171576	2.2556403642153
(588923)	17.6	63.95652	65.34468	192.66723	4.34216	0.0761421	2.7701520642153
(588924)	17.4	185.68109	288.04743	253.94422	10.16748	0.1040769	2.7225291642153
(588925)	17.7	184.98742	8.90445	122.56555	0.39715	0.0122879	2.7992376642154
(588926)	17.6	314.68002	296.86469	74.00304	7.00987	0.0390640	2.7652075642154
(588927)	18.7	142.14246	160.35678	19.18897	5.77941	0.0563816	2.2603695642154
(588928)	18.8	230.07775	64.36972	23.86941	3.38323	0.1680445	2.2773110642154
(588929)	18.1	350.19993	299.94532	172.60371	3.53290	0.0971993	2.5617276642155
(588930)	17.4	331.76361	272.32807	117.55944	7.18565	0.2182594	2.6912084642155
(588931)	17.4	313.76966	331.83731	92.43445	6.87498	0.0377268	2.6823145642155
(588932)	16.9	310.73239	70.34620	331.95987	5.39831	0.0071366	2.7244138642155
(588933)	17.5	119.28807	311.33804	321.25804	5.66463	0.0561716	2.6525285642156
(588934)	17.6	338.13018	27.14563	340.49885	5.34352	0.0181081	2.7424179642156
(588935)	17.6	203.38242	142.88965	329.42609	3.45843	0.0566182	2.8187329642157
(588936)	16.9	92.07358	356.24320	293.54215	9.11465	0.0512116	2.7130448642157
(588937)	16.8	139.49270	233.85647	345.51379	6.93529	0.1031677	2.7119117642157
(588938)	16.4	334.32919	315.75884	57.51811	15.52601	0.2129843	2.7169852642158
(588939)	16.9	329.29030	343.49450	80.75493	14.95092	0.2295544	2.6987818642158
(588940)	17.2	282.81695	3.55487	99.86997	15.43651	0.1134926	2.7419854642158
(588941)	17.5	250.41825	100.03562	9.23886	6.97240	0.1411554	2.7390033642159
(588942)	19.0	290.79069	275.01694	154.10207	5.67928	0.1331662	2.2203016642159
(588943)	17.6	179.85817	189.69910	299.56975	6.35436	0.0841564	2.8720890642159
(588944)	18.8	184.96165	320.43049	178.38226	6.45021	0.0310001	2.2686240642159
(588945)	17.7	325.16433	5.81141	6.64069	4.51702	0.1026658	2.7477341642160
(588946)	18.2	354.83950	48.65877	293.58710	3.34402	0.1027896	2.2777801642160
(588947)	17.7	349.38324	277.40639	74.69857	3.24534	0.1163988	2.7371171642160
(588948)	18.6	287.03457	145.61657	286.16862	5.66698	0.1560262	2.2483379642160
(588949)	16.9	139.02093	245.45130	297.09381	9.85106	0.1741143	2.9165268642161
(588950)	17.2	79.39182	190.33134	158.98970	6.82746	0.3230838	2.5610301642161
(588951)	17.5	312.99588	330.30086	117.47663	10.52569	0.2678872	2.6884418642162
(588952)	17.4	325.22520	75.86432	312.56739	3.36299	0.0812584	2.7968214642162
(588953)	17.0	253.11394	258.81900	256.96758	12.10415	0.1294516	2.6643843642162
(588954)	17.6	27.33728	258.13734	86.76719	4.37895	0.2973144	2.6468167642163
(588955)	17.5	46.45977	218.02753	68.59647	3.12358	0.0340508	2.8391955642163
(588956)	18.2	254.00089	189.51913	266.56972	6.58732	0.0456479	2.2685700642163
(588957)	17.5	14.12070	56.91496	319.17962	5.97171	0.0287219	2.7242799642164
(588958)	17.3	268.38528	308.05559	81.26685	6.55638	0.0598519	2.9067268642164
(588959)	17.2	174.24692	227.96270	270.91367	10.00795	0.0344183	2.8882571642164
(588960)	17.4	232.43313	334.85905	254.55148	2.36476	0.0812082	2.6453516642165
(588961)	18.3	96.50025	289.45849	309.22141	7.40356	0.0466157	2.2843973642165
(588962)	17.4	249.42325	188.44379	271.59895	3.20442	0.0187232	2.7876184642165
(588963)	17.0	76.91363	166.79475	100.73413	7.50441	0.0162267	2.8149717642166
(588964)	18.5	150.19030	13.64806	94.81188	3.50115	0.1254810	2.3745080642166
(588965)	18.9	276.08990	324.05451	117.21445	1.62162	0.1046809	2.2506894642166
(588966)	17.1	346.55408	91.35054	279.73831	5.12937	0.0589000	2.7847904642166
(588967)	18.4	120.47370	279.97005	300.36666	3.77574	0.1448790	2.2884609642167
(588968)	17.2	316.94104	143.75707	302.92341	7.26047	0.1442745	2.6890438642167
(588969)	18.3	140.94161	257.63002	299.28588	18.02359	0.0457089	1.9454697642167
(588970)	17.7	13.81824	105.59745	252.92453	5.90924	0.0358742	2.6947332642168
(588971)	17.4	7.92953	261.27585	89.34381	8.19181	0.2350603	2.7198324642168
(588972)	17.8	341.08855	274.86304	114.98835	9.94609	0.2780106	2.7076870642168
(588973)	17.8	298.19211	168.39697	266.52437	4.05100	0.1375831	2.7416302642168
(588974)	17.5	337.57148	266.66864	144.00544	6.36539	0.1868316	2.7100366642169
(588975)	17.7	16.80546	115.92481	254.36480	4.34206	0.0787855	2.7321694642169
(588976)	17.4	315.92865	283.75601	112.16588	4.14421	0.1036972	2.7948297642169
(588977)	18.2	194.04696	210.13943	316.62365	16.98850	0.0658360	1.9260179642170
(588978)	18.5	281.60664	134.20509	310.85152	5.28193	0.1135674	2.2707732642170
(588979)	17.2	242.55075	356.88269	101.67050	10.47694	0.2413049	2.7924112642170
(588980)	17.7	291.42258	7.31341	71.05343	5.33470	0.1790933	2.7540648642171
(588981)	18.6	349.27665	263.80086	105.71880	6.14006	0.1909334	2.2093952642171
(588982)	19.0	283.33926	197.61598	249.08195	2.81929	0.1702144	2.2350829642171
(588983)	17.5	75.25411	274.12878	101.28888	9.45721	0.1036413	2.5638299642171
(588984)	17.3	274.33546	316.89682	129.98814	5.17424	0.0653138	2.7858453642172
(588985)	17.7	304.80038	329.22316	89.35306	5.24173	0.0908611	2.7639871642172
(588986)	17.9	317.00891	145.90421	306.19710	5.84958	0.0853454	2.7010454642172
(588987)	17.3	223.59623	203.61427	255.79563	0.95247	0.0285208	2.8555731642172
(588988)	18.6	285.76028	115.23353	310.86199	2.74109	0.0664866	2.2532843642173
(588989)	17.6	64.10891	250.91825	97.45071	6.49223	0.1031583	2.6594294642173
(588990)	17.3	4.29473	22.51746	319.18338	4.10872	0.1691748	2.7867171642173
(588991)	17.3	243.29579	77.88041	359.65598	1.69228	0.0372242	2.8705163642174
(588992)	17.0	341.52922	259.74574	121.36748	11.70973	0.0851574	2.7598739642174
(588993)	17.8	274.50964	290.07968	140.63104	4.55308	0.1849203	2.7925556642174
(588994)	17.4	323.60254	166.76831	192.36137	1.67144	0.0815011	2.8603207642174
(588995)	17.4	285.53524	272.98782	118.94532	8.02968	0.0926611	2.8675739642175
(588996)	16.4	101.40750	345.42786	282.02244	7.45589	0.0599169	2.7563454642175
(588997)	16.9	7.59924	216.24849	129.35373	7.17221	0.0682766	2.7992051642175
(588998)	17.4	114.10765	11.61980	211.62735	1.26682	0.0250269	2.8504902642176
(588999)	17.5	108.25767	284.39779	301.12588	4.87647	0.1205676	2.3168176642176
(589000)	18.1	29.72794	25.78452	291.79627	6.76279	0.1839077	2.2518496642177
(589001)	17.3	169.30537	103.11476	129.93851	12.18690	0.0832205	2.7198049642177

(589002)	18.4	95.68714	101.99231	307.60168	2.55473	0.1999237	2.5190291642177
(589003)	19.0	276.06401	135.65464	290.08926	4.97616	0.1668109	2.2703330642177
(589004)	17.7	276.39144	0.26967	103.32326	12.98819	0.1337407	2.7463546642178
(589005)	18.5	264.47905	196.42443	266.79798	6.21103	0.1091755	2.2536634642178
(589006)	18.3	123.86131	271.91833	307.51692	5.40505	0.1417306	2.2959869642178
(589007)	18.8	109.35789	238.85974	313.14687	6.13533	0.0742779	2.3393995642178
(589008)	18.4	179.64217	206.93263	311.28755	17.46893	0.0415557	1.9495653642179
(589009)	17.9	50.41178	320.46107	315.76538	4.55723	0.1552743	2.3206195642179
(589010)	16.9	59.80445	343.37747	326.15317	11.81854	0.1242227	2.7990223642179
(589011)	17.5	275.09786	138.86752	333.31248	7.15973	0.1825784	2.7486168642180
(589012)	16.9	309.30176	327.26258	103.18477	4.92025	0.0795588	2.7744555642180
(589013)	18.4	96.95774	114.23012	90.97929	2.29616	0.1236226	2.3578191642180
(589014)	16.7	259.96392	337.21030	121.01335	9.13853	0.1821792	2.8025120642180
(589015)	17.0	265.23131	2.45023	109.09265	14.45922	0.1240635	2.7603594642181
(589016)	16.8	250.97666	159.88427	326.08018	11.56276	0.1526943	2.7930276642181
(589017)	16.1	248.10548	74.36246	353.07781	16.48213	0.1644364	2.8600148642182
(589018)	16.9	105.23310	173.65188	7.52696	4.67377	0.0771092	3.0010124642182
(589019)	18.3	80.59796	196.88845	136.67001	8.58096	0.0580358	2.2096359642182
(589020)	18.5	186.78705	183.19947	307.37021	1.58696	0.1457337	2.3252481642183
(589021)	16.9	89.36436	134.50522	132.12636	7.03345	0.0345680	2.8746169642183
(589022)	18.5	133.28676	33.44874	143.52829	1.85748	0.1281991	2.3531318642184
(589023)	18.4	275.30603	267.84587	140.62351	8.43737	0.0925602	2.2985984642184
(589024)	17.3	337.02979	352.02974	24.63248	2.19743	0.0847190	2.7929608642184
(589025)	16.9	38.64042	334.42293	352.44465	1.85651	0.0608362	2.8027769642184
(589026)	18.9	247.86774	143.54733	297.68267	6.88438	0.0756192	2.2987670642185
(589027)	17.6	213.92508	329.06730	137.10990	10.90797	0.0604336	2.8943625642185
(589028)	18.8	192.59553	200.95720	297.89899	4.13866	0.1823905	2.3197352642185
(589029)	17.9	16.13452	55.03342	262.48570	5.96010	0.1376478	2.2871659642186
(589030)	17.1	54.23233	150.30309	131.60093	2.76913	0.1014260	2.9345161642186
(589031)	17.2	23.17936	103.37323	259.32745	5.17822	0.0939493	2.7439475642186
(589032)	17.1	30.77168	315.23825	12.66885	5.41446	0.0291894	2.8282458642187
(589033)	16.8	10.44309	281.70667	83.76147	5.36293	0.1071204	2.7817549642187
(589034)	18.6	262.85446	39.46469	54.38464	2.37891	0.1935960	2.2652460642187
(589035)	18.7	163.98414	166.59122	0.50503	4.84365	0.0994505	2.3201310642187
(589036)	17.4	214.63039	20.48878	131.26164	5.72234	0.0620826	2.7969874642188
(589037)	18.5	98.30364	48.53762	142.58286	1.78193	0.1147022	2.3779509642188
(589038)	18.5	123.31981	192.77677	355.83548	2.73584	0.1493744	2.3560154642188
(589039)	18.4	130.16980	316.79350	178.46689	2.14125	0.1651857	2.4181879642189
(589040)	17.0	313.81876	332.31152	97.75652	7.70886	0.0224271	2.7862448642189
(589041)	16.8	277.92424	48.51497	79.59169	15.29715	0.1460236	2.7251521642189
(589042)	17.0	265.74235	126.30640	348.93015	9.94557	0.1145541	2.7567229642190
(589043)	17.3	342.99745	85.52310	313.81050	7.58242	0.2304032	2.7337034642190
(589044)	15.6	36.01608	229.56738	89.45220	9.39266	0.1443609	3.9602048642190
(589045)	18.7	80.42543	76.69279	156.33982	6.07598	0.2317499	2.3733947642191
(589046)	18.7	199.79449	347.69803	136.94668	6.39625	0.1055332	2.3297661642191
(589047)	18.8	307.99709	62.46488	327.29395	17.91723	0.0774049	1.9546756642191
(589048)	18.4	82.90130	278.72886	333.14059	6.15881	0.0740779	2.3297366642191
(589049)	18.6	86.71006	224.04504	16.59963	8.19360	0.1726127	2.3488394642192
(589050)	18.5	157.69314	70.48619	73.38036	3.47861	0.1265622	2.3541865642192
(589051)	17.2	130.42314	203.37108	4.12273	11.23601	0.0465171	2.8948474642192
(589052)	17.5	93.47182	176.77749	55.27795	2.68058	0.0265970	2.9092214642192
(589053)	18.9	131.33065	3.99238	155.48098	1.48268	0.1174876	2.3737741642192
(589054)	18.2	166.03778	11.69165	148.68816	24.39070	0.1612993	2.3282630642193
(589055)	18.1	77.64354	313.85189	282.59241	4.49507	0.1566195	2.3608188642193
(589056)	18.3	234.81628	208.45924	271.38527	4.19106	0.0812897	2.2848813642193
(589057)	17.0	110.95820	220.35087	328.29763	8.48586	0.1106398	3.0107469642194
(589058)	18.1	284.07247	304.92047	146.15862	7.20684	0.0976189	2.2468889642194
(589059)	17.2	298.43800	108.59193	335.95059	11.43664	0.1540102	2.7656363642194
(589060)	18.7	173.92514	27.50790	126.87140	2.93512	0.1550652	2.3326832642194
(589061)	18.2	126.23135	176.25389	306.13207	4.44096	0.1533783	2.4202736642195
(589062)	18.9	207.96220	336.74702	153.27314	7.01251	0.0315811	2.3006201642195
(589063)	16.3	231.30340	170.41831	330.24857	13.02214	0.1357383	2.8065992642195
(589064)	18.7	250.64870	77.78384	20.76094	4.70069	0.1208667	2.2727767642196
(589065)	16.5	38.46646	63.95085	134.40734	17.35955	0.1596968	3.1319093642196
(589066)	17.8	196.70037	45.78770	140.78746	4.12863	0.0302165	2.7723927642196
(589067)	18.3	104.18722	355.53842	201.28907	3.24184	0.1696651	2.3834199642197
(589068)	18.0	247.65699	306.61842	155.59341	23.95567	0.0755532	1.9492484642197
(589069)	16.7	65.52914	156.85070	164.12198	14.11703	0.1020378	2.7935702642197
(589070)	17.3	267.88786	116.91744	82.07033	16.43493	0.1309285	2.7010586642198
(589071)	18.4	69.22165	309.23347	329.98762	6.01790	0.1130040	2.3105956642198
(589072)	17.7	122.91822	10.47492	170.92502	2.53803	0.1183678	2.9947637642198
(589073)	18.7	119.51315	91.03911	100.35341	1.75305	0.1588770	2.3700414642199
(589074)	17.1	35.73128	217.64246	84.21566	5.30569	0.0492245	2.7649654642199
(589075)	17.3	308.86345	250.55561	190.88042	5.26719	0.1474630	2.7341119642199
(589076)	17.7	333.59654	61.54022	336.07991	9.64174	0.0595510	2.2702691642200
(589077)	18.5	91.30425	28.03472	189.01315	4.00265	0.1694023	2.3881453642200
(589078)	18.4	90.85088	1.44274	211.48722	4.92530	0.1775309	2.3906909642200
(589079)	18.4	265.34483	113.08980	352.87539	5.54694	0.1534577	2.2685538642201
(589080)	17.1	7.38150	249.92853	124.11816	5.00051	0.1178611	2.7510850642201
(589081)	17.6	12.28191	184.97022	143.98403	7.27604	0.2183882	2.3117093642201
(589082)	17.7	26.24842	338.22028	121.00660	1.98747	0.0747746	2.6039442642202
(589083)	17.3	235.33165	347.14040	111.70481	9.52510	0.0260570	2.8704119642202
(589084)	18.8	118.14969	177.79741	14.22290	2.70835	0.1702489	2.3628009642202
(589085)	16.3	340.99976	23.14649	1.30051	16.78177	0.0760531	2.8559776642203
(589086)	17.2	303.20285	275.22375	167.65791	4.88330	0.0859206	2.7804308642203
(589087)	18.8	163.49642	169.96455	344.38687	5.34357	0.1240194	2.3421451642203
(589088)	18.4	86.76186	318.64736	269.32265	1.12183	0.1048158	2.3637209642204
(589089)	18.9	239.29928	315.28156	149.60571	7.00733	0.1430662	2.2780364642204
(589090)	18.2	75.39177	250.55421	320.33773	1.24511	0.1309756	2.4008946642204
(589091)	18.3	185.97192	148.59526	309.71862	0.68475	0.1437446	2.3511667642205
(589092)	17.4	281.05499	131.14381	315.72025	5.07394	0.1014023	2.8169189642205
(589093)	18.6	105.36595	95.39690	120.33341	5.09434	0.0923359	2.3693720642205
(589094)	17.4	182.85651	104.94563	22.91192	10.63868	0.0528113	3.0000615642205
(589095)	17.4	62.30970	75.70067	158.23026	15.59587	0.1298125	3.0579846642206
(589096)	18.7	231.46904	54.67128	48.39987	5.91064	0.1045896	2.3266641642206
(589097)	18.6	136.66453	69.59432	122.14915	2.04804	0.1250685	2.3422087642206
(589098)	18.1	93.03264	63.74563	157.36706	1.72711	0.1301382	2.3753459642207
(589099)	18.7	126.21692	1.50326	185.37296	1.96676	0.1446909	2.3679150642207
(589100)	17.9	83.00139	208.51861	22.31714	5.88918	0.1572329	2.3743648642207
(589101)	17.9	150.82454	145.38078	39.22662	11.57069	0.1550433	2.3296177642208
(589102)	18.0	107.87885	112.03198	89.26387	5.55928	0.1753559	2.3705673642208
(589103)	16.9	103.41617	130.05336	353.73949	9.55150	0.0319466	3.2001984642208
(589104)	18.3	185.69263	223.04222	320.71021	6.75426	0.1088280	2.2774281642209
(589105)	18.0	99.71654	255.11264	339.18163	8.88492	0.1692896	2.3195982642209

(589106)	18.3	133.90265	268.12296	246.21073	1.59632	0.1288946	2.3876145642209
(589107)	18.7	200.44584	312.93908	166.15544	5.98580	0.1604189	2.3495955642209
(589108)	18.8	106.42036	14.24422	185.01085	5.10945	0.1690978	2.3868565642210
(589109)	18.5	138.76258	128.74591	28.00076	3.06007	0.1339165	2.3810959642210
(589110)	17.4	276.66577	347.85553	118.54729	3.09649	0.0261303	2.8398935642210
(589111)	17.4	51.96832	231.50969	125.93033	5.89176	0.1374449	2.7371334642210
(589112)	17.8	273.27441	58.19685	98.14598	4.83029	0.0251035	2.7250165642211
(589113)	18.0	328.41140	284.69231	109.83921	6.07553	0.1209772	2.2651674642211
(589114)	18.0	332.69865	317.79964	75.55333	4.01561	0.1321383	2.2760810642211
(589115)	17.1	260.36707	17.00700	114.07113	10.27034	0.2308520	2.7657471642212
(589116)	17.2	133.18944	92.12488	76.10890	11.23320	0.1471188	3.0121788642212
(589117)	16.7	122.34077	108.23430	105.81672	4.63367	0.0970754	2.9779973642212
(589118)	18.2	120.75296	27.40830	167.85062	2.71693	0.1445098	2.3843610642213
(589119)	17.5	94.15507	28.91067	184.88634	3.37024	0.1362408	3.0289549642213
(589120)	17.6	49.53338	264.30596	65.64144	7.43848	0.1380868	2.3088769642213
(589121)	18.5	105.82690	203.76871	18.89869	1.61052	0.1389624	2.3644621642214
(589122)	17.4	58.79307	107.06656	183.03350	11.95599	0.0208711	2.9068960642214
(589123)	17.2	94.55265	256.26507	359.18897	1.66819	0.0827090	2.9367025642214
(589124)	18.6	180.31091	157.06877	9.91238	20.30879	0.0402251	1.9581351642214
(589125)	17.3	167.64872	177.54214	346.06293	4.57292	0.0757130	2.9241210642215
(589126)	17.8	143.01393	314.68583	200.88714	2.59441	0.1780118	3.0153721642215
(589127)	16.6	135.92936	266.51255	326.63847	14.07664	0.1117878	2.8364787642215
(589128)	18.3	164.31468	314.56017	194.64312	5.20299	0.0908155	2.3534691642215
(589129)	18.6	89.80219	190.48734	31.02044	3.78481	0.1640583	2.3876430642216
(589130)	18.0	79.49914	114.35299	136.57741	5.07341	0.1479002	2.3762052642216
(589131)	16.9	248.48389	342.88857	107.37785	5.70249	0.2204478	2.9064082642216
(589132)	17.2	291.65669	264.78801	178.12243	14.90545	0.1313942	2.8494200642217
(589133)	18.3	81.31062	42.41771	189.30344	7.96760	0.1744592	2.4022901642217
(589134)	17.0	275.27687	71.55764	56.03787	23.60190	0.2676929	2.7981367642217
(589135)	16.9	309.59278	15.59821	41.49918	7.26109	0.0959771	2.8593194642218
(589136)	17.2	176.91714	6.21888	130.42987	10.18854	0.0507575	2.9940568642218
(589137)	19.0	214.84539	141.48769	338.89723	2.13926	0.1529992	2.3272743642219
(589138)	18.9	65.61603	101.80764	158.78615	1.64513	0.1613949	2.3824890642219
(589139)	17.6	346.60780	182.06879	198.09897	1.53528	0.0770775	2.8607354642219
(589140)	18.6	331.09040	99.04707	318.40548	6.94554	0.1076883	2.2486096642219
(589141)	18.5	130.17164	25.40914	165.77733	3.98248	0.1162654	2.3686748642219
(589142)	17.3	136.00888	353.75806	180.39908	24.69886	0.2145555	2.3890315642220
(589143)	18.5	130.23987	9.77549	196.13306	5.00742	0.1183892	2.3350091642220
(589144)	17.3	39.37217	303.65631	314.34567	1.53082	0.0752816	3.0669182642220
(589145)	16.9	70.82107	260.37422	22.50824	9.76257	0.0744306	2.9839594642221
(589146)	18.5	78.18729	49.17626	191.42293	20.69024	0.0275471	1.9972332642221
(589147)	18.4	100.47917	349.82097	245.45232	2.32195	0.1612349	2.3545478642221
(589148)	18.0	109.10290	40.50218	200.75395	6.31679	0.0922254	2.3549929642222
(589149)	17.4	110.76804	42.69978	190.04704	12.55567	0.2361109	3.0204494642222
(589150)	18.5	224.36350	347.85386	129.62604	5.90038	0.1628601	2.3238989642223
(589151)	18.5	172.92642	210.83420	296.59184	1.73534	0.1792921	2.3671867642223
(589152)	17.4	74.16590	2.15114	219.50796	1.82389	0.1120569	3.0919586642223
(589153)	17.2	240.58341	246.26484	251.59307	0.92041	0.0358664	2.8796657642224
(589154)	17.2	148.98968	109.24014	60.21236	11.62252	0.0345170	3.0064401642224
(589155)	18.4	117.78251	347.58739	187.06324	7.71721	0.1853449	2.4045436642224
(589156)	18.3	144.35752	92.41944	85.62039	6.20547	0.1410854	2.3775192642225
(589157)	18.5	141.23439	114.61708	75.62372	2.20066	0.1269224	2.3692122642225
(589158)	16.8	162.08398	96.08010	88.51316	13.09776	0.0669327	2.9946637642225
(589159)	17.5	89.39624	164.21872	75.16478	3.48425	0.1502478	2.4006326642226
(589160)	16.7	241.41901	88.39153	38.68868	15.26036	0.1004103	2.8672683642226
(589161)	17.5	177.67174	159.73551	115.19999	5.02142	0.0674174	2.7738182642226
(589162)	16.6	61.86577	196.99940	58.14138	10.25397	0.0306594	3.0631785642227
(589163)	17.9	60.75582	41.17673	244.53507	6.11257	0.1485596	2.3748457642227
(589164)	17.6	86.45445	258.45940	351.06822	5.37517	0.0499476	2.3777066642227
(589165)	18.1	90.19123	9.61228	236.05822	0.97439	0.1449419	2.3710677642228
(589166)	18.1	100.20751	225.50429	62.82417	5.20000	0.2205882	2.3246080642228
(589167)	16.8	170.11838	115.68267	57.38057	9.70288	0.0298751	3.0372145642228
(589168)	18.2	87.13397	168.34467	74.50330	2.34702	0.1407909	2.3960319642229
(589169)	16.9	46.07674	228.54816	44.83671	7.53075	0.1362477	3.0756219642229
(589170)	17.9	350.07370	94.67245	68.59080	4.47787	0.0771359	2.6420523642229
(589171)	18.0	69.70370	213.32261	52.95002	2.06980	0.1768130	2.3798570642230
(589172)	18.3	163.66116	74.17762	82.87464	3.90027	0.1415770	2.3879084642230
(589173)	18.2	109.02290	15.84867	216.00899	12.17069	0.1501270	2.3670828642230
(589174)	17.5	61.37267	68.38308	203.60149	8.82315	0.1944041	3.0553222642231
(589175)	17.7	16.57043	101.49190	52.36061	8.78655	0.1457684	2.5978999642231
(589176)	18.6	75.06262	196.84843	41.40712	1.87804	0.1508032	2.4141648642231
(589177)	17.2	253.54931	23.69234	108.52367	11.98771	0.0608535	2.8430420642231
(589178)	18.2	89.55437	92.88296	144.52910	7.61009	0.1211257	2.3944786642232
(589179)	17.3	74.98893	170.44995	54.56285	1.54428	0.1236741	3.0802111642232
(589180)	17.1	61.02707	242.95375	14.72908	3.67784	0.1931367	3.0549931642232
(589181)	17.0	3.74278	218.92574	96.78947	16.07529	0.2713791	3.1612918642233
(589182)	17.2	344.37141	236.68294	95.80871	7.15396	0.1955200	3.1393481642233
(589183)	17.6	16.31114	236.98139	90.52371	7.49199	0.1480585	2.4045681642233
(589184)	16.9	106.37953	357.93661	217.42188	17.70430	0.1074950	3.0702294642234
(589185)	16.7	129.83653	100.67779	103.70937	9.79191	0.2247838	3.0170724642234
(589186)	16.5	67.53095	191.91905	61.23143	15.55840	0.2329614	3.0678273642234
(589187)	16.4	293.35810	246.60225	142.63714	9.94463	0.0513113	3.0775835642235
(589188)	18.3	81.14440	326.06671	256.83376	1.55116	0.1572351	2.4324694642235
(589189)	17.1	27.27831	241.25870	55.72685	10.74768	0.2234383	3.1310304642235
(589190)	17.2	93.82138	127.40766	82.65088	6.41561	0.2439791	3.1093948642235
(589191)	16.7	53.13933	187.31211	110.77807	11.33101	0.1080768	3.0596382642236
(589192)	16.7	185.25112	47.31106	86.66488	15.13669	0.1300809	3.0505342642236
(589193)	16.8	16.06643	245.08982	85.43374	10.83742	0.0659880	3.0465320642236
(589194)	18.3	130.18836	76.64605	114.42560	3.36444	0.1795778	2.3944256642237
(589195)	18.1	150.05542	67.78251	99.44190	8.53092	0.1614246	2.4028822642237
(589196)	16.6	102.05083	352.74090	206.50226	17.19040	0.1847600	3.1136014642237
(589197)	16.4	51.13988	209.43512	131.58872	10.78583	0.0971615	2.9609152642238
(589198)	16.2	102.18803	156.67381	105.97745	12.66407	0.0360470	2.9953443642238
(589199)	18.3	44.52882	162.02674	111.89914	2.53541	0.1750079	2.4714177642239
(589200)	16.8	69.62213	27.28113	243.12054	22.72687	0.1775957	2.4191969642239
(589201)	17.6	179.58211	306.03542	208.45601	23.80413	0.2000845	2.3822468642239
(589202)	16.0	344.92655	276.55494	110.97337	25.47154	0.2617820	3.1733575642240
(589203)	18.2	26.83194	357.42798	321.35369	1.85988	0.2003199	2.4528145642240
(589204)	17.2	339.26364	41.51952	255.46315	12.85186	0.2396554	2.5796322642240
(589205)	17.4	95.21014	148.11577	121.66160	7.15558	0.2261694	3.0845814642241
(589206)	17.9	283.97012	126.07310	164.06991	13.05181	0.2570779	2.6609343642241
(589207)	16.8	42.62110	83.84233	265.36782	8.63917	0.0589509	3.0409796642241
(589208)	15.9	164.46256	274.76416	278.93997	20.04969	0.1604541	3.1200889642242
(589209)	18.2	49.50927	161.34406	138.82815	5.13477	0.2295706	2.4475739642242

(589210)	16.0	40.82989	168.36710	149.33148	11.71650	0.2352215	3.1584947642242
(589211)	16.4	55.70785	334.67393	323.48808	15.86665	0.1714174	3.1635728642243
(589212)	16.7	329.68327	196.87595	193.97254	16.13403	0.0674912	3.2100933642243
(589213)	16.9	27.44176	55.56219	305.61586	7.73595	0.1147023	3.1256108642243
(589214)	18.4	150.48104	72.56045	291.08713	3.50652	0.1520461	2.2623772642244
(589215)	16.3	100.36241	310.12952	289.32960	9.74564	0.2638052	3.1309125642244
(589216)	16.5	75.80864	343.14251	319.50525	10.35828	0.1339316	3.1107879642244
(589217)	17.3	352.11274	212.56730	164.24098	5.89143	0.1564442	2.4486491642245
(589218)	16.6	45.53377	347.79889	324.41985	3.72787	0.1785330	3.1886115642245
(589219)	16.5	2.81487	236.60393	152.33528	11.66594	0.1138978	3.1662736642246
(589220)	16.3	298.85826	125.78327	320.78801	15.70645	0.1106285	3.1410689642246
(589221)	16.9	340.36407	246.54397	155.22582	10.24228	0.1245070	3.1650363642246
(589222)	15.9	45.04571	339.12704	348.80596	11.97250	0.0772932	3.1702813642247
(589223)	16.4	169.29298	300.72687	257.84760	13.00889	0.1511550	3.0746601642247
(589224)	15.6	29.69040	44.98091	309.63531	14.95157	0.2076280	3.1761107642247
(589225)	16.9	47.83770	122.42353	171.69093	16.44364	0.3313699	3.1970316642248
(589226)	16.6	38.48085	76.44271	248.03175	15.75162	0.2695839	3.1811358642248
(589227)	16.3	22.45567	229.23538	138.49403	6.39096	0.1795802	3.1708600642249
(589228)	16.2	49.57702	356.12150	322.17688	9.49169	0.0807384	3.1545561642249
(589229)	16.1	17.30946	167.78384	173.25788	10.93974	0.0606857	3.2107152642250
(589230)	17.7	56.47425	142.38582	169.33278	14.70875	0.1694172	2.4452625642250
(589231)	17.5	306.59716	172.21552	150.76611	15.13638	0.1798773	2.5958932642250
(589232)	15.9	314.78876	224.41107	208.89536	23.29850	0.2254902	3.2302992642251
(589233)	17.5	351.33708	131.79315	218.78915	4.24690	0.2549997	2.5704645642251
(589234)	18.0	16.49496	141.10966	189.30448	8.56971	0.2285075	2.4782807642252
(589235)	16.8	297.31870	288.12128	160.35733	10.25533	0.2255227	3.2302853642252
(589236)	16.6	285.22204	97.50163	0.91914	20.93651	0.1576699	3.2252455642252
(589237)	18.3	332.89661	277.31298	173.45990	1.14758	0.1469688	2.4153886642252
(589238)	18.0	95.54094	1.06988	321.68013	5.95282	0.1161028	2.3931310642253
(589239)	16.7	143.13852	73.60438	167.13286	11.04301	0.0585102	3.1649183642253
(589240)	17.7	10.98671	190.95851	187.51492	6.45721	0.1361066	2.4340052642253
(589241)	17.3	127.79817	16.20929	262.69609	1.35517	0.1964662	2.3850558642253
(589242)	16.5	105.25607	291.82787	351.77581	9.30700	0.1186888	3.1714847642254
(589243)	16.5	144.35088	10.05459	194.48138	12.61861	0.1706220	2.5419490642254
(589244)	13.3	317.90921	56.06358	5.60078	31.38616	0.0938177	5.2128669642255
(589245)	17.1	146.68521	319.94544	282.68999	5.61877	0.1333227	2.4404605642255
(589246)	13.8	299.25468	59.67302	21.46587	18.15145	0.0961046	5.2995745642256
(589247)	16.4	261.30645	0.58542	109.73747	6.53866	0.1052606	3.2103517642256
(589248)	16.4	319.66704	121.44229	308.43984	13.88746	0.1543125	3.1949943642257
(589249)	16.5	269.54463	107.12758	355.33444	10.70100	0.0822427	3.1984002642257
(589250)	14.5	159.02163	14.15675	202.81977	17.19826	0.0380040	5.1801443642257
(589251)	16.3	96.90468	20.80283	274.56720	10.04178	0.0826943	3.1215391642258
(589252)	14.6	334.17417	42.34491	16.91192	12.57251	0.1587981	5.1713704642258
(589253)	16.5	89.52310	10.76744	238.06656	13.98324	0.0489930	2.5496609642258
(589254)	17.0	53.79257	31.13829	301.46877	7.99168	0.0948164	3.1564629642259
(589255)	16.9	26.27810	333.27078	341.37601	14.78159	0.1416919	2.5266654642259
(589256)	14.3	334.25538	211.73173	193.38792	16.48855	0.0577355	5.1547714642259
(589257)	14.2	337.75204	216.36383	191.63818	28.37463	0.0911882	5.1265648642260
(589258)	14.8	329.10155	25.24357	25.31199	6.18967	0.1952060	5.2327685642260
(589259)	16.9	281.24695	233.90968	207.68715	9.03975	0.1137009	3.3494655642260
(589260)	17.9	5.64000	28.54441	303.02476	3.36072	0.1896356	2.5340114642261
(589261)	19.3	227.72391	270.40014	201.42764	23.19270	0.0919844	1.8005696642261
(589262)	17.7	156.04133	121.95725	59.56151	4.90061	0.1052622	2.5661689642261
(589263)	16.4	292.06115	286.64261	191.58576	15.73823	0.2162661	3.1580908642261
(589264)	16.4	256.41184	288.45495	203.65585	11.87286	0.0164899	3.2465290642262
(589265)	18.5	120.83751	83.60734	246.23956	4.69353	0.1576963	2.3443761642262
(589266)	18.5	164.29270	120.86564	239.64918	1.41561	0.1714369	2.2724536642262
(589267)	17.9	324.81133	32.93281	236.73437	1.44923	0.1720548	2.6516375642263
(589268)	18.1	307.59975	119.29389	336.68295	4.81525	0.1594252	2.4693149642263
(589269)	16.1	268.46316	278.26610	204.55717	21.97270	0.0462318	3.2088279642263
(589270)	17.8	214.21545	305.16647	170.72946	16.86313	0.0596280	2.5525162642263
(589271)	17.7	274.08914	328.07583	320.32107	3.02442	0.2041847	2.7121203642264
(589272)	14.2	290.92972	245.15678	197.56632	21.71093	0.0708167	5.2370828642264
(589273)	17.1	239.39837	75.40822	220.90447	6.63155	0.0518549	2.8523696642264
(589274)	14.5	331.11916	41.11088	13.41477	13.33406	0.0793751	5.2528574642265
(589275)	16.7	223.70105	311.07428	199.44086	12.79468	0.0543298	3.2326669642265
(589276)	14.5	8.51946	307.98808	77.54380	8.78198	0.0728352	5.1289270642265
(589277)	14.6	323.75903	191.68724	220.79151	8.76065	0.1181385	5.2038893642265
(589278)	14.5	304.09588	73.52186	8.51929	17.29862	0.0970989	5.2000424642266
(589279)	14.6	359.29660	124.28912	265.02356	3.31309	0.0404885	5.0524539642266
(589280)	17.3	17.53376	1.83396	310.54957	13.38250	0.1849538	2.5258660642266
(589281)	17.1	77.90299	170.58811	148.13441	10.97752	0.1001336	3.1373345642267
(589282)	17.2	178.94309	94.30658	150.12223	12.03966	0.0454937	3.0720304642267
(589283)	16.8	245.79403	163.06053	92.49533	0.21085	0.0309077	2.9576231642267
(589284)	14.8	339.41098	235.60545	164.17251	6.66792	0.0861141	5.2005640642268
(589285)	16.0	333.67912	72.53842	48.04284	16.72903	0.2294043	3.1327090642268
(589286)	16.3	103.83814	275.83502	67.88760	5.20575	0.0709717	3.0430683642268
(589287)	14.1	247.26861	102.06098	33.20455	12.54190	0.0560526	5.1510625642269
(589288)	16.8	281.84535	254.47103	287.20687	6.36008	0.0413912	3.0309233642269
(589289)	14.0	0.59938	290.14039	102.76458	9.72096	0.0309281	5.1705255642270
(589290)	18.6	50.19157	240.68643	137.07678	6.02206	0.1885280	2.3981583642270
(589291)	14.4	3.61807	165.22483	217.18093	25.84781	0.1015842	5.1885060642270
(589292)	14.4	354.72264	51.15301	335.25930	6.29929	0.0985867	5.2331174642271
(589293)	16.4	212.61891	294.42054	225.57298	8.76530	0.0847786	3.1481547642271
(589294)	16.5	320.97963	95.96753	347.04884	10.42544	0.0565179	3.1242472642271
(589295)	14.6	322.57427	60.10019	355.40193	4.77091	0.0076438	5.2929774642272
(589296)	16.9	349.71987	281.54823	137.50828	3.81939	0.0915367	3.1810286642272
(589297)	16.6	319.28559	351.57632	91.35258	6.33579	0.1380343	2.4641042642272
(589298)	16.3	250.42765	334.69237	171.92749	22.90195	0.2027188	3.1517688642273
(589299)	14.1	167.52331	355.68297	221.88949	3.30305	0.0751406	5.2440187642274
(589300)	18.3	322.92695	272.26525	142.29156	6.95375	0.1318027	2.4728861642274
(589301)	18.0	223.65427	276.32510	197.44633	11.53608	0.2500874	2.6060906642274
(589302)	13.7	339.65190	285.84233	108.49768	8.64572	0.0818964	5.2840914642275
(589303)	16.1	171.38756	215.42082	350.16287	22.38089	0.0707722	3.2004031642275
(589304)	18.2	232.50156	158.40346	312.04174	4.03576	0.2628679	2.5822077642275
(589305)	18.2	157.61056	232.61959	128.81156	3.30485	0.0419833	2.2871917642276
(589306)	14.7	288.27432	254.78797	197.27753	3.65731	0.1622021	5.2784830642276
(589307)	18.3	248.07280	97.90808	6.10909	11.99211	0.1299064	2.5588448642276
(589308)	14.1	291.17711	25.58498	60.92422	9.68122	0.0853417	5.1884150642276
(589309)	17.7	71.63516	290.26352	321.88806	9.70259	0.1456571	2.5275413642277
(589310)	16.9	296.04461	282.54127	183.37373	16.10831	0.1472391	3.1677469642277
(589311)	14.7	307.97625	239.79218	187.31738	16.19895	0.1131775	5.1283184642277
(589312)	14.1	17.66635	264.05355	108.14363	8.66306	0.0474325	5.1827403642278
(589313)	16.8	240.09650	268.80656	196.32198	9.55913	0.0828499	3.3557939642278

(589314)	17.1	94.69058	141.40358	224.04025	10.27429	0.1303357	3.0435965642278
(589315)	14.3	359.28336	293.30225	100.44252	8.64354	0.0843249	5.1296603642279
(589316)	14.4	3.61981	272.36264	110.26695	8.16493	0.0691861	5.1677984642279
(589317)	14.8	16.74354	119.23036	239.79557	7.48508	0.0629033	5.2139821642279
(589318)	14.6	357.36762	23.65077	351.31514	6.87788	0.0592173	5.2046930642280
(589319)	14.9	348.56596	22.72924	16.28440	8.44133	0.0794877	5.1770934642280
(589320)	14.8	27.72039	199.86880	145.85285	8.19795	0.0245535	5.1900257642280
(589321)	14.7	334.48340	303.06094	117.62538	4.03577	0.0408612	5.0941417642280
(589322)	14.4	357.00504	221.90941	164.53022	8.00192	0.0426171	5.1203104642281
(589323)	17.5	276.56407	220.69902	34.36258	2.43863	0.0123200	2.8639998642281
(589324)	14.4	316.86701	212.22201	223.47788	7.93119	0.0275789	5.2223148642282
(589325)	16.5	336.19386	129.43234	269.32741	7.40635	0.0901107	3.2176175642282
(589326)	14.3	238.15903	103.72143	33.62073	8.02028	0.0199818	5.2691811642282
(589327)	14.6	309.05368	42.49387	17.68699	7.58750	0.1034069	5.2205276642282
(589328)	14.6	289.37917	63.85641	26.96750	7.63081	0.0797469	5.1476999642283
(589329)	14.7	345.03828	181.63417	222.17442	6.79995	0.0837984	5.1265222642283
(589330)	14.8	316.54897	210.45304	225.91054	12.00975	0.1527886	5.2279909642283
(589331)	14.5	326.57417	13.38124	32.69606	7.95407	0.0911520	5.1922415642283
(589332)	18.2	264.85069	270.70300	162.47551	6.01015	0.2340719	2.5931166642284
(589333)	14.8	310.42314	76.61459	7.20960	8.39317	0.1021694	5.1702320642284
(589334)	14.7	334.32093	218.06248	187.48945	13.64438	0.0789055	5.1561673642284
(589335)	14.6	304.38644	72.78560	359.88556	17.62065	0.0697986	5.2553616642284
(589336)	14.6	354.32794	195.40309	206.00707	28.87250	0.0737493	5.2029852642285
(589337)	17.7	194.94195	308.62947	204.46209	3.33391	0.0411040	2.5592189642285
(589338)	17.0	270.22132	126.46922	317.93822	10.44482	0.1068842	2.5450112642285
(589339)	17.5	46.75629	50.65969	247.94477	13.26961	0.0475000	2.5200750642285
(589340)	14.0	5.09017	125.05458	241.83186	20.10829	0.0687100	5.2347144642286
(589341)	17.0	130.93234	82.94640	111.69672	7.83842	0.2171641	2.5512260642286
(589342)	14.5	5.06629	300.72067	87.24251	8.69267	0.0814870	5.2906511642287
(589343)	16.9	304.58280	111.42463	350.84360	10.08880	0.0986889	3.1607688642287
(589344)	17.4	327.66906	112.08314	265.97369	16.20203	0.2168657	2.5455737642287
(589345)	18.3	107.39091	300.02060	350.01416	1.01616	0.1714222	2.4362219642288
(589346)	17.6	179.36282	125.69296	39.21759	10.02645	0.0740290	2.5618101642288
(589347)	17.8	113.99784	331.91483	58.34005	2.91072	0.1123044	2.9423459642288
(589348)	16.4	10.51463	39.36510	347.06207	9.52373	0.0622347	3.1682980642288
(589349)	18.4	143.73276	132.18096	183.50444	5.67896	0.0860077	2.3623991642289
(589350)	18.0	84.58850	133.11667	119.60566	4.73949	0.0181637	2.5561407642289
(589351)	18.3	219.30351	35.52840	78.37950	5.56541	0.0804930	2.5833018642289
(589352)	17.4	203.71464	98.02693	20.24515	8.86969	0.1646849	2.6289341642290
(589353)	14.7	4.27447	134.02293	245.84701	7.70348	0.1241247	5.2569519642290
(589354)	17.9	280.96137	77.88490	1.66056	4.86562	0.2054865	2.5588721642290
(589355)	18.8	279.82257	267.92449	68.81663	3.04571	0.2165693	2.1660465642290
(589356)	17.6	263.78442	220.86097	213.78328	21.30843	0.0416727	2.5788948642291
(589357)	18.2	288.74434	346.81218	73.08869	4.37397	0.2369980	2.5805182642291
(589358)	14.4	343.18250	39.31817	9.28845	13.55511	0.0634237	5.2423525642291
(589359)	17.7	94.74605	20.59084	291.50616	4.25373	0.2036271	2.4262299642291
(589360)	16.0	32.97340	40.51397	253.08893	42.36551	0.1371865	2.6061387642292
(589361)	17.0	71.24572	29.92655	225.08579	13.20325	0.2108880	2.5945034642292
(589362)	17.8	297.74109	7.43925	60.42096	1.42855	0.0549523	2.5470076642293
(589363)	17.8	352.69261	350.15610	354.56103	5.86724	0.2327047	2.5431299642293
(589364)	17.7	49.87043	253.67699	25.34474	24.98910	0.2181856	2.5483525642293
(589365)	18.1	24.51699	120.06019	194.97014	1.90598	0.1548404	2.5576686642294
(589366)	14.4	299.41763	345.83113	85.87535	3.58198	0.0400576	5.2168499642294
(589367)	14.4	263.55732	290.19640	183.61356	5.81089	0.0971560	5.2157190642294
(589368)	16.4	56.91364	96.17845	236.47230	10.79636	0.0640336	3.1405143642295
(589369)	14.3	317.73523	179.48384	256.05861	7.66286	0.0174781	5.2109402642295
(589370)	14.7	14.88454	295.48629	61.31403	8.37272	0.0394769	5.2425469642295
(589371)	14.9	327.70475	38.95548	47.86671	18.69540	0.0423338	5.1957829642296
(589372)	14.6	11.42336	160.87223	214.58457	30.97247	0.0115161	5.1746506642296
(589373)	17.5	174.41305	278.97202	241.07879	16.23657	0.1064812	2.6318372642296
(589374)	13.9	64.73285	100.34281	234.03913	17.73998	0.0406646	5.1221039642296
(589375)	14.7	3.32452	156.20916	226.86930	9.39362	0.0760645	5.2202019642297
(589376)	15.9	175.17350	316.92358	237.31615	7.28045	0.0832132	3.3614967642297
(589377)	18.1	257.50436	21.96878	71.74074	3.50622	0.1152968	2.5717990642297
(589378)	16.4	153.43763	220.77780	24.55578	10.40407	0.0211591	3.2167640642297
(589379)	16.3	1.41800	118.86748	225.73372	8.65757	0.0675198	3.4322544642298
(589380)	16.8	120.05057	208.00508	30.11766	4.94994	0.1767362	2.5443524642298
(589381)	18.5	346.34250	126.58806	227.28138	12.01249	0.2814102	2.5435988642299
(589382)	17.4	78.49996	252.46413	89.97231	2.47359	0.1761079	3.1476584642299
(589383)	18.2	63.30413	105.90698	144.84242	1.61434	0.0355729	2.6151034642299
(589384)	17.6	38.27667	29.37301	293.04786	4.58768	0.0993365	2.5439703642299
(589385)	17.7	328.36675	240.12024	151.25829	3.26049	0.1781193	2.5621198642300
(589386)	16.0	315.76626	2.86326	31.77405	14.90800	0.1319406	3.4354601642300
(589387)	18.1	349.63278	284.94261	80.21555	13.53879	0.1792365	2.5623549642300
(589388)	18.5	318.55601	71.35099	347.20000	3.26723	0.2588738	2.5413884642301
(589389)	18.1	15.69370	241.53552	90.96198	7.41694	0.2418330	2.5223275642301
(589390)	17.9	145.73395	297.15805	340.84915	5.73130	0.1310558	2.4324290642301
(589391)	16.2	356.30952	97.99172	253.65436	9.05988	0.1095753	3.4498006642302
(589392)	17.9	32.76391	335.01357	324.14388	4.34509	0.1719932	2.5563581642302
(589393)	16.9	141.49667	76.48326	205.27194	10.37414	0.0091437	3.1742088642302
(589394)	17.7	60.60711	22.30471	250.38814	11.24597	0.0338763	2.6092074642302
(589395)	17.8	215.05338	351.26918	146.27223	2.43121	0.1043211	2.5837080642303
(589396)	16.6	10.92377	283.32746	47.79601	16.70108	0.1902460	2.5692297642303
(589397)	17.5	352.68064	280.41885	31.04350	11.28497	0.2507602	2.5812307642304
(589398)	19.1	274.03960	332.81683	73.40555	1.43528	0.1070511	2.1340768642304
(589399)	17.5	287.42996	334.69167	105.22340	4.92265	0.1667816	2.5624573642304
(589400)	17.3	37.85047	48.77246	282.58433	3.54053	0.0146988	2.5583308642305
(589401)	18.1	353.06548	26.97604	330.04182	3.86431	0.2666002	2.5281878642305
(589402)	13.9	341.39255	356.55623	32.76147	12.12483	0.0553304	5.3188202642305
(589403)	17.8	346.69886	115.59000	246.33667	1.23818	0.1468588	2.5689804642306
(589404)	17.2	229.80413	74.27648	37.31478	22.70662	0.0489027	2.5810661642306
(589405)	18.2	321.14196	171.25571	218.73066	5.19888	0.0877259	2.5646953642306
(589406)	18.1	19.96697	225.05973	117.39258	3.53581	0.1422663	2.5287429642306
(589407)	18.4	297.51102	342.82506	71.80344	2.53198	0.1279801	2.5658182642307
(589408)	16.9	220.59182	249.33832	263.31618	11.55348	0.1417634	2.5765336642307
(589409)	16.2	340.48881	7.69341	54.37922	8.83614	0.0925076	3.3207664642307
(589410)	17.7	226.26547	254.28412	228.73278	8.06579	0.0126404	2.5791663642308
(589411)	17.2	323.06154	30.00219	21.54754	12.58047	0.2453575	2.5503639642308
(589412)	17.8	325.50979	339.69664	42.29941	4.98716	0.0213660	2.5797039642309
(589413)	17.4	160.13250	120.70424	57.74104	12.40421	0.1087364	2.6168832642309
(589414)	17.6	136.20991	290.39840	242.03207	12.90952	0.1811620	2.7069752642309
(589415)	17.6	129.04944	155.28162	97.94218	3.82389	0.0665342	2.5417453642309
(589416)	17.9	291.20988	106.89194	279.82009	1.85371	0.1472775	2.5899829642310
(589417)	16.1	259.45377	117.27301	76.86762	14.85343	0.2077732	3.1684330642310

(589418)	18.5	45.09806	222.67352	163.45505	4.70527	0.0822481	2.4357060642311
(589419)	14.7	11.16598	219.45616	177.97205	7.63550	0.0905974	5.1725957642311
(589420)	14.4	29.03503	263.34748	125.84596	6.64483	0.0391175	5.1115694642311
(589421)	13.9	45.98668	276.87608	71.24222	22.05217	0.0677445	5.2802750642312
(589422)	17.8	197.18583	121.82398	18.53836	9.17697	0.0797521	2.6164933642312
(589423)	16.5	125.07605	15.46352	242.88958	14.45011	0.0824619	2.5398315642312
(589424)	17.7	34.70757	265.06434	54.00572	7.70579	0.1666059	2.5536533642313
(589425)	17.8	222.70967	228.16093	250.38928	5.68860	0.2264338	2.6365117642313
(589426)	17.8	237.98517	48.91580	48.20962	7.26999	0.1350901	2.6334320642314
(589427)	17.7	29.33190	273.06578	45.96309	3.13652	0.0682678	2.5643655642314
(589428)	17.5	340.92910	128.29161	244.30710	2.71814	0.1440230	2.5663480642314
(589429)	17.3	233.28883	320.79672	94.65229	12.73271	0.1058360	2.6967934642315
(589430)	17.7	237.57833	206.96375	255.10266	5.58474	0.1152405	2.6218648642315
(589431)	18.6	61.91296	303.37724	83.29537	5.24166	0.1983750	2.4028984642315
(589432)	17.7	40.82921	167.04854	124.70597	2.21739	0.1606689	2.5705380642315
(589433)	17.2	127.92830	356.04492	219.21070	11.74839	0.1323866	2.5821423642316
(589434)	14.2	36.14691	299.14341	67.93497	20.77134	0.1603961	5.1389081642316
(589435)	17.9	19.16696	270.54180	70.78638	13.41013	0.1336361	2.5310768642316
(589436)	17.7	252.40631	337.28348	86.20443	6.16336	0.0751138	2.6344477642317
(589437)	17.4	198.97141	229.23026	302.72766	4.91775	0.0351374	2.5622183642317
(589438)	18.2	309.55984	194.79220	335.97827	2.11028	0.1482651	2.4130002642317
(589439)	17.3	166.88946	59.94604	33.18068	4.44987	0.0717531	2.7778608642318
(589440)	17.4	104.77511	9.47699	225.60045	10.34691	0.1391052	2.6212324642318
(589441)	16.9	6.02821	192.38397	173.12067	6.92280	0.1685867	2.5341078642318
(589442)	17.0	211.74933	256.56814	246.45367	11.92246	0.1025142	2.6095465642319
(589443)	16.8	25.69604	81.19217	263.82221	5.70377	0.1967463	2.5378464642319
(589444)	17.2	13.06881	275.10954	50.56582	11.87628	0.2107321	2.5766625642320
(589445)	17.3	296.69936	356.50348	88.17506	15.48244	0.0668939	2.5785370642320
(589446)	17.8	4.20294	289.34669	73.71027	10.35310	0.0774392	2.5530841642320
(589447)	17.4	30.54361	242.76459	81.21904	17.71214	0.3146420	2.5147793642321
(589448)	19.7	339.10874	93.75426	244.11447	0.79691	0.1802985	2.1147412642321
(589449)	18.2	296.26383	270.91716	128.20190	4.23498	0.1024629	2.5968266642321
(589450)	17.6	49.70275	215.51361	66.57602	14.30963	0.0239022	2.6196488642321
(589451)	18.1	310.55968	186.87477	216.71030	11.22067	0.0751146	2.5655029642322
(589452)	17.4	272.11230	336.10695	87.29393	16.68668	0.0955230	2.6294733642322
(589453)	18.2	273.27932	67.58048	20.00042	8.77705	0.1338549	2.5612633642322
(589454)	18.2	20.41067	262.34314	44.96915	15.13255	0.1190510	2.5849674642322
(589455)	17.9	52.45604	237.38601	29.39118	17.07520	0.1038575	2.5906402642323
(589456)	17.7	240.53583	60.01814	54.44463	14.05119	0.2071480	2.6159197642323
(589457)	18.0	329.81618	323.99194	47.95950	1.57583	0.0644706	2.5913369642323
(589458)	18.3	253.67870	262.23641	217.38978	3.87709	0.2037196	2.5802790642323
(589459)	18.1	186.78955	40.07822	117.67451	3.30523	0.1491145	2.6128785642324
(589460)	17.5	109.17900	324.70900	258.18067	9.27009	0.0596132	2.6307643642324
(589461)	18.9	86.68784	321.08672	54.13303	4.70121	0.2546212	2.3923506642324
(589462)	17.6	96.26195	86.26333	145.56173	1.55327	0.0594986	2.6473878642324
(589463)	16.9	220.90537	327.75835	88.97669	5.85129	0.1175914	2.7282573642325
(589464)	18.6	137.11394	245.09992	314.90470	2.57053	0.0863167	2.1380849642325
(589465)	17.7	354.29348	217.73381	145.82814	3.34015	0.2472380	2.5496569642326
(589466)	18.9	89.17822	288.13246	96.88507	2.52885	0.1991446	2.3849832642326
(589467)	16.1	195.19685	53.71461	239.33149	8.89863	0.0609253	2.9940490642326
(589468)	17.1	13.91883	257.66505	97.40874	10.35574	0.2254564	2.5798349642327
(589469)	17.8	275.59802	311.48279	106.33494	15.28489	0.0807899	2.6764924642327
(589470)	18.1	228.36494	312.13275	157.94726	4.00100	0.1143238	2.6727943642327
(589471)	17.5	342.04486	297.84345	77.79956	4.40761	0.2369515	2.5965376642328
(589472)	17.9	344.08402	292.03903	50.21991	8.28530	0.0987754	2.6178345642328
(589473)	17.0	207.69644	211.62467	296.32052	11.78904	0.1174155	2.6637040642328
(589474)	17.0	346.06248	66.50462	301.43637	10.03727	0.1031941	2.6403256642328
(589475)	17.7	320.24625	253.57772	141.94381	2.51934	0.0987839	2.6304347642329
(589476)	17.8	330.43447	88.24636	284.04773	2.09624	0.1106675	2.6552768642329
(589477)	18.8	63.93589	44.81920	205.18052	0.13328	0.1542199	2.2098322642329
(589478)	17.0	291.96245	301.88609	61.68677	6.80466	0.0476461	2.7390729642329
(589479)	17.3	288.57896	296.97547	125.66531	9.01059	0.1059558	2.6514842642330
(589480)	18.3	255.11228	322.47447	142.54000	1.92559	0.1683832	2.6424878642330
(589481)	17.6	231.60021	188.39602	295.41614	5.56663	0.1008302	2.6621038642330
(589482)	18.0	195.23259	43.39962	85.75439	3.36943	0.0621708	2.6942658642330
(589483)	17.1	332.90074	255.27618	151.38087	8.99739	0.1364939	2.5945515642331
(589484)	17.6	262.04161	29.27071	77.53450	4.91497	0.1315609	2.6366878642331
(589485)	17.3	241.32875	21.32859	112.19701	5.97966	0.1717033	2.6349555642331
(589486)	17.6	337.79396	70.56005	306.81212	3.82318	0.1985437	2.5924745642332
(589487)	16.6	68.21027	128.54347	289.14842	9.60175	0.0697974	3.1383492642332
(589488)	17.6	289.83916	229.46069	209.88162	3.87332	0.2089056	2.6123343642332
(589489)	17.1	306.80414	254.43674	167.87737	4.83772	0.1390941	2.6266997642333
(589490)	16.3	261.03870	214.49798	264.82707	21.08616	0.1326052	2.5928237642333
(589491)	17.7	292.54205	69.32494	10.87686	4.52162	0.2158396	2.5899304642333
(589492)	16.9	258.69966	310.48472	123.68755	22.58407	0.0561501	2.6811927642334
(589493)	16.9	226.45090	23.47405	124.68574	14.16146	0.1205606	2.6241913642334
(589494)	17.0	26.72026	100.42587	212.92372	3.65644	0.0580147	2.6967783642335
(589495)	17.7	254.90299	171.71776	284.91177	13.09020	0.2142090	2.6488180642335
(589496)	17.3	172.85937	47.25552	114.30771	16.02375	0.0517748	2.7071414642335
(589497)	17.9	315.57533	234.08816	149.10428	6.51439	0.0274607	2.6699516642336
(589498)	17.5	241.39495	345.04449	131.07364	5.23456	0.1411326	2.6617652642336
(589499)	13.9	14.03222	126.70830	237.35421	24.15614	0.1043797	5.2439373642336
(589500)	14.6	9.06824	190.86623	200.60506	16.31290	0.0863398	5.1868829642337
(589501)	16.9	349.08340	332.42675	74.65942	2.18368	0.1433856	2.5938260642337
(589502)	18.6	94.18143	188.68012	16.73357	1.85691	0.2145291	2.2589536642337
(589503)	17.3	208.22812	152.64518	340.01399	10.23160	0.1936841	2.7253650642338
(589504)	17.2	349.08550	242.95852	134.47900	13.20829	0.1937877	2.6122507642338
(589505)	17.1	57.00723	329.17391	307.72743	5.31995	0.1501768	2.7363951642339
(589506)	17.7	322.66452	277.22199	143.22935	7.01783	0.2181743	2.5807211642339
(589507)	17.1	102.16973	92.07575	140.24155	6.56666	0.1035359	2.7373389642339
(589508)	17.0	337.39817	61.43628	312.61920	5.32905	0.0460797	2.6739869642340
(589509)	17.1	237.79141	209.43835	279.73648	3.88936	0.1643005	2.6563680642340
(589510)	17.8	156.95472	202.05816	319.20108	3.60335	0.0418707	2.7499866642341
(589511)	17.2	102.72025	291.60566	319.68669	4.16450	0.1222794	2.7134550642341
(589512)	16.7	164.66175	10.12408	126.24097	8.81657	0.1473433	2.7962935642341
(589513)	17.1	135.13271	24.76009	153.26977	5.49652	0.0931442	2.7970785642342
(589514)	17.2	220.22343	330.52364	132.30743	5.93543	0.0747312	2.7114314642342
(589515)	17.7	44.48378	331.16737	323.60515	4.34847	0.1018590	2.7358798642343
(589516)	17.1	336.63398	196.75472	161.18222	6.05574	0.0670971	2.7443657642343
(589517)	18.6	218.26382	174.93463	311.16884	3.29034	0.1287558	2.1615886642343
(589518)	17.8	321.17366	229.33372	133.18508	6.88158	0.0530659	2.7225767642344
(589519)	17.4	135.07934	265.11669	310.48531	10.56949	0.0299959	2.7005743642344
(589520)	17.7	264.60606	296.77883	153.98509	13.05990	0.2177591	2.6548810642344
(589521)	16.8	289.31478	106.99597	324.76301	9.60512	0.1066401	2.6457674642344

(589522)	18.7	86.00253	192.81408	13.71162	3.53415	0.1861333	2.2720435642345
(589523)	17.4	59.82362	152.87434	132.32616	5.74381	0.0229779	2.7099174642345
(589524)	17.7	276.05978	343.62477	52.49074	1.51453	0.0774231	2.7566919642345
(589525)	17.5	163.87811	17.40571	155.31009	5.61273	0.0921764	2.7708905642346
(589526)	19.5	269.22578	288.38585	146.03632	23.89358	0.0792714	1.8386026642346
(589527)	17.5	328.68310	38.41862	347.17147	5.27709	0.0427963	2.6875329642346
(589528)	17.4	224.91059	139.61448	342.60274	7.55822	0.1331944	2.6983307642346
(589529)	17.6	334.64302	258.06317	122.81777	5.55303	0.1911517	2.6440109642347
(589530)	16.5	88.72281	315.13128	317.46700	10.96019	0.1452617	2.7099502642347
(589531)	17.8	286.24327	305.93270	138.73459	6.97789	0.3096207	2.6121579642347
(589532)	16.9	221.68254	199.90343	292.88659	6.01340	0.1094396	2.6864376642348
(589533)	17.0	164.68697	256.64879	295.29003	8.97448	0.1297304	2.7087142642348
(589534)	17.6	343.58873	278.41831	128.42634	9.04648	0.1379906	2.5655716642349
(589535)	17.2	1.12046	36.13731	329.96401	12.86614	0.1048780	2.6661720642349
(589536)	17.4	162.81666	13.02032	143.84347	4.83566	0.0463164	2.7919591642349
(589537)	16.8	264.79371	200.64904	124.47969	4.26799	0.0921771	3.1615618642349
(589538)	17.9	357.59895	130.87339	205.94286	12.38059	0.2804716	2.5546128642350
(589539)	17.4	223.26474	235.89492	245.99512	3.78294	0.1019619	2.6911657642350
(589540)	17.6	176.82275	4.43718	150.34089	11.97471	0.0432802	2.7654463642350
(589541)	17.9	246.90848	347.93692	108.56587	7.15971	0.1097548	2.6914879642351
(589542)	17.6	337.69618	208.55837	152.06126	9.48566	0.0351569	2.7183032642351
(589543)	17.7	152.75982	174.32084	347.27313	3.36440	0.0347715	2.7836826642351
(589544)	18.6	141.65564	167.51379	28.16863	4.71224	0.0987405	2.2134008642351
(589545)	16.7	359.07204	233.66182	133.03435	12.35744	0.1670277	2.6249811642352
(589546)	18.1	271.31664	325.91372	122.03054	3.29925	0.1738904	2.6433279642352
(589547)	17.5	347.63271	220.59775	126.80400	6.25312	0.1803434	2.6931148642352
(589548)	17.9	307.36886	340.83194	41.44148	6.68237	0.0463929	2.7319859642353
(589549)	17.1	152.63123	309.28975	1.66605	1.72346	0.1907548	2.5246726642353
(589550)	17.6	213.11502	153.75061	321.17407	4.37662	0.1115247	2.7665207642353
(589551)	17.6	125.27107	332.52956	309.90267	3.75167	0.1749135	2.6638647642354
(589552)	17.0	291.66689	273.61959	153.35440	22.25139	0.0494864	2.6883869642354
(589553)	18.0	238.22948	134.07777	344.05694	5.29701	0.1645336	2.6990537642354
(589554)	17.8	126.28544	12.73270	208.36350	1.21285	0.0372325	2.7632963642354
(589555)	18.7	129.86058	201.43069	350.52545	6.98334	0.0868023	2.2314553642355
(589556)	17.6	89.48788	227.57533	2.38181	3.36295	0.0424687	2.7715440642355
(589557)	18.1	222.73519	335.54208	135.73470	5.10805	0.2217698	2.1852663642355
(589558)	18.5	88.73878	204.91058	28.32975	3.25024	0.1194539	2.2359629642356
(589559)	17.9	111.83580	62.09534	179.23461	22.25227	0.0636366	1.8536977642356
(589560)	18.6	157.40797	34.13573	124.26546	7.21110	0.1249041	2.2134056642357
(589561)	17.0	250.41679	350.18064	125.38457	5.38943	0.1165601	2.7086295642357
(589562)	17.3	249.16866	299.52029	185.19721	12.93338	0.2133013	2.6880315642357
(589563)	17.1	77.44539	123.01596	135.33553	5.75812	0.1231589	2.8013336642358
(589564)	18.9	181.06868	9.71105	128.15223	3.27449	0.0974786	2.2185029642358
(589565)	18.4	137.21153	21.45354	149.68785	7.44059	0.0826139	2.2395873642358
(589566)	17.6	285.97161	290.84457	171.88213	14.14426	0.0795870	2.6509611642359
(589567)	17.4	161.52971	24.00202	175.73538	4.95003	0.0493493	2.7586024642359
(589568)	17.0	263.36559	76.51157	68.24810	13.75841	0.1896904	2.6062401642359
(589569)	18.2	124.76728	165.59205	25.69915	3.93772	0.2345758	2.2490216642360
(589570)	16.9	295.47948	306.24369	174.97303	13.11724	0.2129177	2.6211821642360
(589571)	18.9	79.86740	72.63461	167.54928	7.69557	0.2136138	2.2454330642361
(589572)	17.1	94.84125	264.33881	7.98179	5.99381	0.0368759	2.7247350642361
(589573)	17.0	313.16996	331.93734	108.84794	12.87968	0.1411921	2.6390171642362
(589574)	17.1	236.55317	221.66611	260.43262	10.54838	0.0807920	2.6064037642362
(589575)	17.6	221.74382	155.62934	352.37408	12.09333	0.0995075	2.6013757642362
(589576)	17.2	92.93355	284.62697	0.66330	11.90869	0.1760706	2.7474500642363
(589577)	17.8	180.34246	44.77659	161.06787	17.39487	0.1299739	2.6626610642363
(589578)	16.9	55.46543	195.88322	122.30612	7.28083	0.1518169	2.7134853642363
(589579)	18.4	74.40556	159.62244	114.75557	4.05646	0.1446952	2.2128409642363
(589580)	17.5	101.87617	308.51677	12.09343	9.65357	0.0481105	2.6257608642364
(589581)	16.9	125.32910	26.93020	215.92481	4.40892	0.1039558	2.7649661642364
(589582)	18.8	193.78454	354.00570	146.30945	3.03203	0.2142417	2.2120148642364
(589583)	18.6	73.74306	98.52005	161.89247	6.98010	0.0872962	2.2303553642365
(589584)	17.8	15.32560	274.49627	39.00082	4.64337	0.0204555	2.7851256642365
(589585)	18.6	57.34665	150.54891	117.53721	6.09201	0.2331271	2.2509927642365
(589586)	17.8	155.16378	124.41800	51.84803	4.54600	0.0334860	2.7953613642366
(589587)	17.4	220.23912	348.41897	142.59192	5.38214	0.0595401	2.7606572642366
(589588)	18.7	145.23812	137.57032	19.44468	2.82988	0.0912057	2.2578357642366
(589589)	18.2	71.65887	176.00367	88.00523	2.90434	0.1443982	2.2499743642366
(589590)	18.4	114.78981	148.73788	64.81509	5.37825	0.0792032	2.2475756642367
(589591)	17.6	97.41521	86.45453	124.66283	8.56895	0.1633922	2.7666344642367
(589592)	17.5	308.90535	326.65376	118.37230	7.73668	0.2332170	2.6211253642367
(589593)	18.7	60.66627	252.93052	3.70540	4.09534	0.1432484	2.2550988642368
(589594)	18.4	161.07855	198.90937	313.06440	3.66065	0.0783197	2.2492762642368
(589595)	16.9	189.20167	37.40066	116.83086	4.98192	0.0369643	2.7902169642368
(589596)	18.5	166.33471	81.72657	62.90444	3.77994	0.1010134	2.2525690642368
(589597)	17.3	201.87086	72.87205	69.54832	5.74618	0.1004005	2.7888902642369
(589598)	17.0	254.20026	58.92916	72.54069	4.04612	0.0342572	2.7135403642369
(589599)	17.4	199.90144	0.78142	141.11853	8.83792	0.1619543	2.8003290642369
(589600)	16.9	230.23407	82.78689	39.08030	5.20985	0.0340837	2.7641319642370
(589601)	17.0	271.72593	251.42060	205.60488	11.06530	0.1532129	2.7332789642370
(589602)	18.3	49.13747	197.06748	82.75321	4.01120	0.2022389	2.2783129642371
(589603)	18.7	62.48151	70.34084	169.10052	7.64896	0.0820373	2.2828903642371
(589604)	16.2	158.29481	130.33588	56.27129	11.20176	0.0465500	2.8011738642371
(589605)	18.4	108.48897	347.95139	214.09086	5.85055	0.1598701	2.2655615642372
(589606)	17.1	204.68818	114.90649	25.91182	4.93336	0.0868110	2.7864770642372
(589607)	17.2	169.51409	52.22551	42.40765	2.65747	0.0534970	2.9526612642372
(589608)	17.6	123.79629	288.34588	214.19234	4.84124	0.1536676	2.9430150642372
(589609)	18.6	99.93219	14.46956	207.71748	2.14990	0.1649187	2.2578182642373
(589610)	18.4	108.24125	190.37272	30.45794	3.51843	0.1111153	2.2486382642373
(589611)	16.6	51.07693	238.59375	75.42809	14.44068	0.0630111	2.7723403642373
(589612)	17.7	152.16972	226.44402	290.57683	8.36990	0.1203107	2.7455484642374
(589613)	17.8	295.63015	144.13103	283.02845	10.77846	0.1697429	2.6022393642374
(589614)	17.2	317.97113	62.26386	16.09206	14.79096	0.0869678	2.6737287642374
(589615)	17.4	167.28050	18.59789	135.30070	3.42192	0.0834869	2.8600530642375
(589616)	16.6	13.84139	240.69817	98.49592	15.89629	0.1597927	2.8648064642375
(589617)	17.0	11.40849	303.05404	7.90376	7.95966	0.1623882	2.9021318642375
(589618)	15.7	48.36691	244.90226	43.15760	4.57416	0.0872673	4.0228620642376
(589619)	17.8	111.86563	244.86598	66.03551	12.87662	0.0909461	2.6811656642376
(589620)	16.5	24.49821	39.76734	255.06520	16.27099	0.0863940	3.0659069642376
(589621)	18.4	68.13290	178.31010	64.31277	6.18248	0.1209983	2.2730982642376
(589622)	17.6	25.11157	181.19054	117.85404	5.85692	0.1039638	2.8972796642377
(589623)	16.4	3.85751	270.53890	72.35539	11.45738	0.1285615	2.8929295642377
(589624)	17.1	5.06516	274.67308	33.21072	12.40046	0.0328701	2.9207331642377
(589625)	17.8	32.01784	232.47941	71.45977	6.24556	0.2511840	2.2865885642378

(589626)	17.6	41.05742	156.38291	130.38142	2.70623	0.1200315	2.9186555642378
(589627)	18.7	39.43765	166.23031	96.37711	6.19071	0.2320968	2.3062259642378
(589628)	17.4	172.88279	31.65157	158.90714	8.75385	0.1411648	2.7816207642379
(589629)	16.2	170.12696	177.40053	55.54559	26.32657	0.0713564	2.7299247642379
(589630)	18.9	88.51420	139.69653	81.91613	3.36323	0.1533989	2.2879287642379
(589631)	17.2	286.35439	295.97103	161.98118	4.79280	0.0715196	2.7515662642380
(589632)	16.6	57.06019	72.30880	230.30151	14.21557	0.1535759	2.8403269642380
(589633)	17.7	183.68630	336.11673	197.95414	7.74312	0.1579552	2.7959520642380
(589634)	17.1	311.64217	34.24667	33.26506	6.15068	0.0819183	2.7464800642381
(589635)	16.9	18.19811	187.69516	145.96865	2.62862	0.0779263	2.8435888642381
(589636)	18.0	35.43814	282.81664	48.17312	10.77433	0.2179250	2.2439466642381
(589637)	16.7	340.53551	219.88547	156.78502	7.08215	0.0575645	2.8033658642382
(589638)	17.2	3.49364	306.14113	39.04505	5.42702	0.1174361	2.8565167642382
(589639)	18.6	213.36329	335.69061	114.16667	24.77818	0.0890982	1.9072441642382
(589640)	16.7	274.39819	212.96336	204.87598	26.24021	0.0549882	3.0729240642382
(589641)	17.2	181.74890	347.34252	153.36843	15.67019	0.0818814	2.8866112642383
(589642)	18.1	63.20227	3.26720	252.26914	6.38017	0.1663374	2.2820417642383
(589643)	16.8	310.70370	161.73572	245.17213	6.29792	0.0632505	3.0273234642383
(589644)	17.6	255.54428	168.06650	313.40837	13.63811	0.2514637	2.6340363642384
(589645)	16.7	326.86624	195.32034	209.99017	8.74750	0.0664660	3.0042634642384
(589646)	17.1	326.61997	266.43119	146.24848	13.56372	0.1437433	3.0124676642384
(589647)	16.6	307.42433	280.46504	125.97094	8.54887	0.0686303	3.0660009642385
(589648)	18.6	318.21175	224.12232	147.38149	23.33335	0.0737146	1.9080509642385
(589649)	18.0	87.04643	2.16028	237.46292	20.04159	0.0641797	1.9071951642385
(589650)	16.9	353.63023	44.43459	181.42064	17.16344	0.1679187	3.2030512642386
(589651)	16.5	1.14751	221.02025	95.52266	14.54712	0.2738782	3.0074164642386
(589652)	17.6	35.85389	254.27842	36.17427	26.15291	0.2195643	2.2839863642386
(589653)	17.0	346.05031	18.96682	342.00689	9.56319	0.1151534	3.0843804642387
(589654)	16.6	100.24467	344.27575	255.03459	7.17497	0.0234967	3.1074710642387
(589655)	16.8	52.81847	7.33897	289.03714	10.42539	0.0776908	2.9814581642387
(589656)	16.6	322.52743	230.64825	135.58894	2.34997	0.1521461	3.1735165642387
(589657)	15.9	136.70791	294.15684	269.28848	16.04372	0.1215231	3.1255896642388
(589658)	18.3	297.30416	149.15345	258.04625	19.70610	0.0224907	1.9247492642388
(589659)	16.5	19.46613	183.34144	139.98209	21.20365	0.2554056	3.0616863642388
(589660)	17.4	20.09700	136.97707	180.71155	12.91061	0.1580065	3.1363289642389
(589661)	17.4	11.30452	359.37982	351.99188	4.04964	0.0830989	2.7939256642389
(589662)	16.3	228.90731	85.35507	80.66084	21.54623	0.0942070	3.0009502642389
(589663)	16.5	5.92377	53.21961	304.95182	12.65023	0.0762184	3.0940567642389
(589664)	16.1	34.74407	183.40509	100.85224	22.00934	0.2204112	3.1610566642390
(589665)	16.5	333.58903	281.72917	72.85169	12.07253	0.1354167	3.2126261642390
(589666)	16.7	95.49832	259.10154	355.04370	22.80884	0.1455693	3.1099481642390
(589667)	19.0	24.21716	100.19303	189.86672	5.53656	0.2443489	2.2997599642391
(589668)	18.1	9.12892	224.73270	133.11228	8.98246	0.2203623	2.3066542642391
(589669)	18.2	348.09330	212.36638	151.07321	2.55954	0.2301233	2.3545244642391
(589670)	16.4	11.58844	37.69545	309.67499	14.52947	0.2186017	3.0855134642392
(589671)	17.1	61.80040	308.81874	17.73654	4.42295	0.0730494	2.7704182642392
(589672)	18.2	76.04570	329.76449	301.81059	4.96896	0.1469691	2.3098218642392
(589673)	17.2	1.17167	16.78103	335.12413	9.31400	0.0924472	3.0546674642393
(589674)	15.9	0.99185	194.32553	155.86663	17.41865	0.1722220	3.0774328642393
(589675)	16.8	74.89494	146.10543	148.34511	9.69412	0.0939734	3.0012093642393
(589676)	17.1	79.09281	230.57372	40.36381	0.51921	0.0984406	3.0281410642394
(589677)	17.1	16.20576	121.70692	196.80177	11.70133	0.1519514	3.1350716642394
(589678)	18.4	93.77699	106.64738	125.65920	3.86087	0.0862950	2.3757729642394
(589679)	16.2	85.56173	302.97166	308.33202	8.55938	0.1065592	3.0917907642395
(589680)	17.8	151.97438	231.68284	302.46757	5.48615	0.0898702	2.3713421642395
(589681)	17.1	299.00111	219.61999	157.97398	9.87229	0.1052412	3.1778405642395
(589682)	16.2	334.14277	344.06182	13.93073	12.15263	0.0991603	3.1815188642396
(589683)	3.9	98.60732	193.62756	25.40000	30.59354	0.2437549	49.7489871642396
(589684)	16.9	68.16809	243.73795	4.88453	0.88524	0.1426774	3.1069842642397
(589685)	16.8	270.83055	232.51590	182.19862	8.57719	0.0735026	3.1722703642397
(589686)	16.1	292.03204	63.11707	350.81355	15.36061	0.0532660	3.1076813642397
(589687)	16.7	340.10831	230.23496	166.50617	8.91611	0.0888073	3.0225919642398
(589688)	16.7	254.33791	183.15352	325.76060	10.39057	0.0381122	2.9154429642398
(589689)	16.5	19.15322	185.57320	151.44915	9.44033	0.0162919	3.0609450642399
(589690)	16.6	350.24473	38.24171	325.17691	8.78943	0.1094354	3.1261673642399
(589691)	16.6	54.30555	38.93606	278.69536	8.11080	0.1142893	2.9819467642399
(589692)	16.5	295.56051	99.82435	350.38090	9.86452	0.1507894	3.0659393642400
(589693)	16.2	348.62354	137.93424	231.62154	8.65839	0.0762908	3.0737479642400
(589694)	16.5	14.88852	137.17078	217.75913	9.69787	0.0832933	3.0208706642400
(589695)	16.7	288.13738	100.31993	343.30568	11.74645	0.0804967	3.0840688642401
(589696)	17.6	65.24729	253.49236	19.42537	6.49015	0.0634194	2.3897689642401
(589697)	17.3	351.28167	68.08637	316.69950	4.84813	0.1602104	3.0640268642401
(589698)	17.0	322.52800	195.82114	193.50838	13.63719	0.0564111	3.1444786642401
(589699)	18.4	27.47559	322.55793	12.38846	4.08223	0.2212226	2.3405827642402
(589700)	16.8	283.67360	277.16174	179.20559	11.00532	0.1363467	3.0859992642402
(589701)	17.0	12.81847	4.99460	335.64703	9.23891	0.0992507	3.1139290642402
(589702)	16.8	33.74378	323.85149	7.21349	10.94985	0.1194836	3.0583661642403
(589703)	18.7	77.38048	194.74810	175.21510	2.83816	0.2219586	2.2211332642403
(589704)	16.2	51.32002	69.16690	217.37800	11.55521	0.1270666	3.0889656642404
(589705)	18.5	270.89189	115.27259	317.97868	8.28094	0.1297266	2.3924748642404
(589706)	16.6	196.92039	260.23012	228.97883	9.35447	0.0922382	3.2138614642404
(589707)	16.7	32.13225	83.71065	211.31468	21.47764	0.1639912	3.1199006642405
(589708)	16.5	208.71887	39.05087	216.15325	9.97068	0.0706116	2.7956147642405
(589709)	18.0	26.87348	348.67071	341.23783	6.22826	0.1226773	2.3459561642405
(589710)	18.7	28.93494	357.28163	338.01077	1.00192	0.2048016	2.3381868642406
(589711)	16.4	358.33237	191.61677	193.53910	9.17516	0.0779919	3.0229323642406
(589712)	16.2	47.97247	311.17709	346.55238	15.36127	0.0650394	3.0641746642406
(589713)	17.0	83.56461	284.36211	341.14640	2.53707	0.0861643	3.0506666642407
(589714)	17.2	45.74347	125.97784	167.36062	0.46707	0.1827709	3.0519514642407
(589715)	18.7	292.92474	265.52791	168.74080	1.85943	0.1506142	2.3332256642407
(589716)	16.3	91.73618	26.68086	253.26153	12.94900	0.0319746	3.0072607642408
(589717)	17.0	356.62767	210.10619	195.20719	9.52774	0.0966175	3.0106604642408
(589718)	17.0	343.13011	198.50037	196.23475	12.93510	0.1520020	3.0495907642408
(589719)	16.4	337.89296	156.11514	215.14122	9.00501	0.0564005	3.1542158642409
(589720)	17.7	85.78035	322.96628	280.35495	4.10459	0.1282440	2.3807436642409
(589721)	16.9	32.83304	328.83189	1.71055	16.40515	0.0751859	3.0677016642409
(589722)	16.2	111.57257	299.01074	297.68406	7.28278	0.0323528	3.1533786642410
(589723)	18.0	338.53909	33.74130	342.79441	13.61769	0.2521399	2.3774024642410
(589724)	16.2	32.01160	47.88727	264.37301	8.62102	0.1031436	3.1058830642410
(589725)	17.3	79.68983	7.46226	243.42042	6.01389	0.0980548	2.3695855642411
(589726)	16.7	277.57186	254.71217	199.52534	12.51735	0.1207950	3.0246420642411
(589727)	18.2	57.88196	37.64753	232.23973	5.90626	0.1368822	2.3595124642412
(589728)	16.3	97.11945	302.37542	299.57187	18.97642	0.0847905	3.1865498642412
(589729)	16.8	229.13644	107.27859	337.19860	11.06206	0.0606582	3.2207610642412

(589730)	17.0	172.33625	274.58301	267.85976	5.08615	0.0300579	3.0716145642412
(589731)	17.0	151.93648	299.33382	272.98775	7.54689	0.0493046	2.9971533642413
(589732)	18.4	97.82594	295.47493	311.39084	5.83955	0.0780583	2.3504825642413
(589733)	16.9	150.07239	316.64868	256.69083	7.67849	0.0541263	3.0526226642413
(589734)	17.2	81.30356	275.26754	340.39068	7.99295	0.0865592	3.0820396642414
(589735)	17.0	349.82217	226.11611	144.65735	9.02957	0.0890110	3.0396517642414
(589736)	17.1	4.02605	155.12253	175.38063	9.54064	0.1058494	3.1220513642414
(589737)	17.0	320.17983	136.42702	264.54829	8.29815	0.0967702	3.0683453642414
(589738)	16.5	322.25313	225.99516	219.06571	9.50608	0.0426204	3.0726880642415
(589739)	16.7	20.07370	345.66456	342.62894	11.00568	0.0628237	3.1319968642415
(589740)	17.1	298.77556	117.98528	333.52369	17.15974	0.3195824	3.0825791642415
(589741)	16.1	344.11839	173.44030	212.57077	15.42273	0.0640395	3.1249786642415
(589742)	17.3	312.67592	201.52352	257.09688	4.01152	0.1608045	2.9913476642416
(589743)	17.1	80.54010	59.98010	187.36140	9.31402	0.0436789	3.1584805642416
(589744)	16.9	29.78968	3.55516	354.34940	9.70286	0.1141019	3.0080048642416
(589745)	16.8	116.18696	227.14158	0.98563	9.65208	0.0190960	3.1317425642417
(589746)	16.8	193.02914	147.62114	6.98471	10.01723	0.0194920	3.1213610642417
(589747)	16.4	336.22308	17.46462	3.25927	8.72487	0.0719924	3.0973386642417
(589748)	16.9	298.51468	251.05572	180.71269	13.76187	0.1333121	3.0974613642418
(589749)	16.8	176.26361	153.89972	19.48069	9.16446	0.0284815	3.1746471642418
(589750)	16.7	348.86501	143.52128	218.69507	16.39341	0.2267836	3.1390128642418
(589751)	18.0	326.58311	342.53764	32.44724	5.28618	0.1949175	2.3993713642419
(589752)	18.0	14.25641	291.61399	34.05927	6.55572	0.1434475	2.4022493642419
(589753)	17.0	247.00425	291.79314	166.19924	3.03382	0.0265347	3.1210785642419
(589754)	18.3	257.63963	135.19328	345.56531	21.84969	0.1863846	2.3440941642419
(589755)	16.7	236.42061	96.12028	17.94954	16.29615	0.1475633	3.1655569642420
(589756)	16.9	283.78791	274.55776	176.02398	10.46521	0.2557013	3.1103781642420
(589757)	18.6	353.63159	173.64012	194.82534	23.63013	0.1313857	1.9469765642420
(589758)	18.1	72.95595	214.88209	27.50979	8.92342	0.2087222	2.3816010642421
(589759)	17.0	247.41692	106.40175	1.86531	9.29272	0.0444812	3.1042564642421
(589760)	16.9	161.61302	312.86978	230.96062	10.47017	0.1156716	3.1254933642421
(589761)	16.8	41.87354	72.34014	241.57840	8.98566	0.0645245	3.0774992642421
(589762)	18.4	348.93791	307.51589	46.70835	3.45648	0.2186021	2.3701785642422
(589763)	17.1	293.26734	257.39218	159.36915	9.32732	0.0684379	3.1763193642422
(589764)	16.6	112.80195	213.38532	14.98415	10.83220	0.0294928	3.1455921642422
(589765)	17.1	355.06458	30.87847	11.39776	10.78046	0.0687268	3.0196302642422
(589766)	17.1	21.12864	65.64325	303.96019	0.82245	0.1101457	3.0108583642423
(589767)	17.2	11.43249	98.08393	238.53999	3.90667	0.1330563	3.1202698642423
(589768)	16.3	211.36198	184.21836	346.30261	10.67645	0.0498265	3.0629861642423
(589769)	17.0	18.66705	7.65927	345.52424	8.43629	0.0784169	3.0754904642424
(589770)	17.7	186.20590	129.16539	31.88220	20.55543	0.0563576	1.9572166642424
(589771)	16.9	266.91045	78.99659	19.21106	10.11499	0.0547184	3.1239024642424
(589772)	16.5	279.90895	242.71302	190.56495	16.03155	0.0590812	3.1227178642425
(589773)	16.9	67.06905	76.94992	213.28829	8.75013	0.0594003	3.0853145642425
(589774)	18.6	277.42102	224.08078	198.52264	14.36613	0.1728107	2.4115609642425
(589775)	16.9	274.31179	267.64629	190.76478	14.01001	0.2109477	3.1397394642426
(589776)	16.0	14.13059	341.82421	346.07403	17.14231	0.1981651	3.1242152642426
(589777)	18.3	321.24059	228.25339	167.79882	5.25715	0.2044421	2.3657893642426
(589778)	17.1	279.85229	256.11437	191.65308	2.70912	0.0430892	3.0973067642426
(589779)	16.9	30.82150	83.29201	216.18004	15.51936	0.2391118	3.1342348642427
(589780)	15.9	177.92158	289.79444	221.12701	15.69736	0.0805948	3.2497693642427
(589781)	17.9	105.44235	173.56704	254.35894	4.50190	0.0317046	2.6916079642427
(589782)	18.4	327.69213	186.91309	198.43304	21.52177	0.0642786	1.9503584642428
(589783)	18.5	301.62873	42.99928	3.72635	5.16598	0.0933144	2.3880246642428
(589784)	16.7	280.50004	19.56437	22.96454	13.66696	0.0270023	3.2499497642428
(589785)	18.1	67.11295	212.98420	54.73877	1.96515	0.1651440	2.3798015642428
(589786)	17.9	26.96801	278.61661	36.42425	6.74736	0.0956376	2.3928892642429
(589787)	17.1	259.80694	97.35388	11.98456	25.57258	0.2210509	3.1410621642429
(589788)	17.5	3.78162	206.02525	141.91419	3.10945	0.0753496	3.1220520642429
(589789)	16.5	322.09170	206.21492	196.20455	10.85964	0.0946355	3.1115408642429
(589790)	16.8	349.68751	156.31531	181.93029	9.74765	0.0820532	3.1910744642430
(589791)	17.1	314.47933	103.03900	317.71392	9.59453	0.1404422	3.1104915642430
(589792)	17.5	223.75857	358.99167	329.75277	3.25727	0.1027498	2.6372717642430
(589793)	18.0	72.74917	125.16722	140.25971	1.80986	0.1644089	2.3679491642431
(589794)	17.0	21.40515	296.23159	21.62067	9.66112	0.1013213	3.1683899642431
(589795)	17.0	314.39976	192.67054	206.05654	8.58090	0.1422269	3.1665291642431
(589796)	18.3	40.84157	177.45422	113.44717	2.47951	0.1855100	2.3836137642432
(589797)	17.2	7.24891	92.36229	215.38100	15.29207	0.2458630	3.1631057642432
(589798)	18.1	23.92347	216.12261	112.75891	3.77195	0.1710891	2.3536542642432
(589799)	16.8	299.69187	183.66491	237.70043	7.20817	0.0755552	3.1470767642433
(589800)	16.5	266.34558	124.57999	327.80545	8.90508	0.0372018	3.1426812642433
(589801)	17.1	324.05463	269.74405	150.25923	9.68072	0.1519248	3.0755077642433
(589802)	16.9	185.36403	274.98765	259.17977	6.75328	0.0205928	3.1611782642433
(589803)	16.6	35.39071	312.27170	6.56506	10.44824	0.1054228	3.1460838642434
(589804)	16.6	20.44406	93.47348	236.28791	8.39335	0.0969061	3.1650211642434
(589805)	18.2	180.99272	337.21962	160.03545	6.65612	0.0614213	2.4373806642434
(589806)	17.8	276.82328	206.11603	250.67955	5.28776	0.0587671	2.3464232642435
(589807)	16.6	326.49128	174.85374	229.81796	9.91032	0.0274507	3.0166132642435
(589808)	17.9	276.55992	44.67557	40.83218	7.12096	0.1303209	2.3988966642435
(589809)	17.1	37.27318	67.94769	235.63294	8.69955	0.0719362	3.1358492642436
(589810)	16.9	269.55674	208.42802	234.97494	8.91107	0.0394897	3.1848633642436
(589811)	16.8	246.00713	97.19275	23.28507	13.52332	0.2499182	3.2016746642436
(589812)	18.0	59.80349	224.84988	125.27360	4.22695	0.1356889	2.2801108642436
(589813)	17.5	12.73787	226.56611	102.74815	5.59903	0.2454656	2.3572479642437
(589814)	16.3	306.50746	199.30636	216.54850	22.11058	0.1610898	3.1297620642437
(589815)	16.4	275.08265	212.89999	234.65563	9.34925	0.0136897	3.1197680642437
(589816)	16.6	164.52003	174.64455	7.44982	10.55879	0.0265922	3.1028642642438
(589817)	16.8	230.05566	116.86722	350.26034	10.46575	0.0894945	3.1703130642438
(589818)	17.8	354.35459	170.93890	208.42617	5.90933	0.2501088	2.3097178642438
(589819)	17.1	195.82140	261.45983	255.87550	9.85621	0.1295313	2.4405817642439
(589820)	16.8	338.47476	13.46490	5.35173	18.19165	0.0738127	3.0830110642439
(589821)	16.3	53.13384	44.15888	265.34740	7.39718	0.0850208	3.1474779642439
(589822)	18.6	47.06982	324.52744	313.44383	1.49490	0.2025696	2.3706111642440
(589823)	16.2	310.86653	181.17528	251.00843	9.91707	0.0812419	3.0752070642440
(589824)	16.9	186.75269	235.20029	298.87968	7.30182	0.0518302	3.0923319642440
(589825)	18.3	357.92654	289.28919	71.64411	6.55168	0.2163440	2.3602266642440
(589826)	16.8	297.06137	94.51804	314.40045	8.35241	0.0716491	3.1695766642441
(589827)	17.0	296.60608	214.59881	202.03903	8.52686	0.0554187	3.1778678642441
(589828)	16.6	70.78253	240.16995	29.56838	9.41951	0.0697956	3.1878333642441
(589829)	17.0	36.82740	116.77554	197.42656	12.33429	0.0709878	3.1813112642441
(589830)	18.3	74.36506	227.03401	30.23830	6.35624	0.1198042	2.3916767642442
(589831)	16.9	104.86414	2.41095	254.53133	10.15227	0.0476310	3.0693427642442
(589832)	16.7	44.06807	261.64687	19.72717	21.67454	0.2727840	3.1084123642442
(589833)	17.6	12.04411	270.46362	56.85084	1.55040	0.2035764	3.1245365642442

(589834)	14.6	299.83693	342.90783	98.41602	8.85135	0.0846250	5.1426883642443
(589835)	16.4	64.61067	8.94687	283.40708	3.55271	0.0755589	3.1638484642443
(589836)	18.1	13.09629	295.89690	67.75821	2.32290	0.2005701	2.3568624642443
(589837)	18.4	21.38762	295.76902	62.97058	6.19045	0.1898878	2.3330135642444
(589838)	17.6	255.09809	36.07651	45.41008	2.80633	0.1482974	2.4422714642444
(589839)	16.9	23.05908	283.35686	41.53291	0.69027	0.1707941	3.1481316642444
(589840)	18.3	293.63072	61.84992	13.67596	1.19317	0.1651065	2.4012584642445
(589841)	16.9	334.75142	80.33270	300.47774	8.26646	0.0838573	3.1617425642445
(589842)	15.4	335.26144	315.30541	60.55341	20.03183	0.1418301	3.2211356642445
(589843)	16.6	355.89912	148.87645	224.75007	8.15386	0.0741871	3.1215792642446
(589844)	16.2	290.20107	254.26445	229.74684	16.72221	0.2114254	3.0890006642446
(589845)	18.0	55.19712	246.63487	29.76057	20.31443	0.0855782	1.9803115642446
(589846)	16.8	309.68866	54.73130	0.93209	9.01101	0.1087898	3.1697648642447
(589847)	15.5	277.37951	235.25987	229.98316	26.32371	0.2342228	3.1797284642447
(589848)	17.2	276.21948	103.91696	344.60321	8.59728	0.0533436	3.1359150642447
(589849)	18.3	264.44928	354.81934	93.36294	2.10748	0.1839612	2.4173077642448
(589850)	16.6	325.35078	168.73965	266.18039	7.99320	0.0489287	3.0826721642448
(589851)	18.2	134.87648	2.29028	221.92172	21.76119	0.0301037	1.9596863642448
(589852)	16.7	358.82526	137.25774	208.08439	26.13558	0.1585486	3.1764170642448
(589853)	18.4	15.38130	88.26738	226.13246	0.81249	0.2228210	2.3975236642449
(589854)	16.8	195.81757	93.43645	49.12887	16.27389	0.0779037	3.2416842642449
(589855)	16.7	91.60388	238.15717	13.78682	10.32903	0.0536092	3.1803990642449
(589856)	16.3	314.32366	47.25920	323.01355	17.52610	0.0402950	3.2684990642449
(589857)	16.4	0.16334	302.18168	36.26409	10.44491	0.1029574	3.2186672642450
(589858)	16.9	311.67895	340.64860	63.92523	7.71061	0.0545097	3.1683351642450
(589859)	17.0	346.18859	145.07342	219.28700	16.43339	0.2290048	3.1503310642450
(589860)	16.6	262.77937	241.00617	214.76488	11.97150	0.0973599	3.1891775642450
(589861)	16.8	142.76489	118.92030	68.87594	6.23556	0.0572486	3.2447238642451
(589862)	16.9	332.65173	320.50905	80.02024	13.83580	0.1911675	3.1599613642451
(589863)	16.4	267.50482	198.37445	285.45458	11.97793	0.1233701	3.1039146642451
(589864)	14.5	325.17186	185.87637	233.48225	15.52685	0.0647078	5.1895940642451
(589865)	16.6	2.80260	92.32073	269.07414	10.66218	0.0329586	3.1842396642452
(589866)	14.6	273.52576	267.68268	196.37125	18.52307	0.0450086	5.1134228642452
(589867)	18.0	15.27477	298.88589	47.35472	22.31695	0.0993853	1.9531996642452
(589868)	14.7	300.38871	17.60098	63.68706	9.73444	0.0784158	5.1662630642452
(589869)	18.0	37.01104	253.36901	81.47745	2.39093	0.2056309	2.3383526642453
(589870)	14.3	336.00936	335.46736	66.60566	1.12195	0.0698529	5.2090414642453
(589871)	17.9	343.57416	268.39263	102.73185	4.14235	0.2526483	2.3870021642453
(589872)	17.2	15.48763	259.20620	84.58680	4.59889	0.2141482	2.3667233642454
(589873)	17.0	55.75770	289.98836	10.01395	9.10697	0.0678655	3.1445174642454
(589874)	16.5	167.32688	189.06782	21.80545	15.85818	0.0138387	3.0987503642455
(589875)	17.8	105.49560	298.88700	285.72341	3.65128	0.1838015	2.4212323642455
(589876)	17.9	248.78464	194.03531	287.16905	6.16086	0.0379044	2.4071276642455
(589877)	14.6	277.73656	249.71159	212.32439	5.84043	0.0686915	5.2001749642456
(589878)	16.6	316.60191	8.94951	14.17762	18.02612	0.0697870	3.2394712642456
(589879)	14.3	302.91554	181.20815	242.11258	8.17643	0.1003334	5.2865473642456
(589880)	16.6	126.63955	174.65079	62.24739	16.79752	0.0436788	3.1860712642456
(589881)	15.0	341.88296	219.83353	175.48305	2.13995	0.0924497	5.1324788642457
(589882)	14.5	295.39857	146.49166	287.99300	6.84921	0.0478188	5.2496725642457
(589883)	16.9	25.00515	4.18760	329.37920	4.84829	0.0948796	3.1745803642457
(589884)	15.6	268.12985	256.59399	237.65569	24.21834	0.3144134	3.1821156642457
(589885)	13.9	295.92905	181.03098	269.51883	11.77897	0.0059698	5.2583384642458
(589886)	14.3	333.45444	151.49086	270.20865	11.53168	0.1381208	5.1928853642458
(589887)	15.7	61.50736	33.87767	263.27749	14.21852	0.1034682	3.1975586642458
(589888)	16.4	300.99428	206.41498	223.22633	10.85462	0.1004377	3.2051367642459
(589889)	17.8	83.01676	226.31462	25.69181	6.52370	0.0917719	2.4366073642459
(589890)	18.2	314.52208	268.99951	139.18910	2.87540	0.2144194	2.4076323642459
(589891)	16.1	335.61235	144.09320	263.72778	15.72602	0.2284840	3.1381573642460
(589892)	18.1	292.25573	267.83812	150.73613	2.86168	0.1733977	2.4144279642460
(589893)	17.8	108.80541	161.16451	68.36555	3.81923	0.1377443	2.4268238642460
(589894)	18.1	91.38550	75.67023	167.91602	6.29379	0.0683031	2.4366203642461
(589895)	16.7	31.25108	100.35550	256.99880	9.37725	0.0508355	3.1082291642461
(589896)	13.7	313.46422	180.98237	249.90902	20.06901	0.0641670	5.2619274642462
(589897)	15.6	340.55277	126.42669	253.06498	14.80785	0.1004523	3.1765670642462
(589898)	15.9	295.84397	219.11496	250.04336	26.48624	0.1553275	3.1353124642462
(589899)	17.1	356.60507	352.38767	46.37151	2.46625	0.1638500	3.0853185642462
(589900)	16.8	338.29269	323.93700	55.69648	1.64633	0.1463764	3.2224981642463
(589901)	16.4	301.20196	12.11011	82.42757	14.08130	0.1137328	3.1447549642463
(589902)	14.6	351.89992	4.31852	35.80560	9.94288	0.1051858	5.1465381642463
(589903)	17.6	316.92144	336.71348	78.24557	11.54918	0.2638622	2.3938438642464
(589904)	16.4	278.74424	218.28266	227.96135	14.44465	0.1617535	3.1961871642464
(589905)	15.6	44.93621	248.53030	46.38162	27.08515	0.2210130	3.1847216642464
(589906)	16.7	323.05370	357.87773	29.20135	16.61228	0.1004773	3.1980278642465
(589907)	16.5	302.45406	6.56230	74.20582	18.67821	0.1761476	3.1344703642465
(589908)	16.1	253.63434	244.45649	224.16018	17.89081	0.1145324	3.2187509642465
(589909)	15.1	351.74974	211.00017	174.42581	9.11339	0.0565339	5.2354462642466
(589910)	17.9	62.13260	250.09091	36.31514	21.40744	0.0804319	1.9686518642466
(589911)	16.2	167.25980	243.51499	295.51449	13.92932	0.1378874	3.2154862642466
(589912)	15.8	7.29961	52.96835	304.18024	14.15559	0.1467056	3.1587171642466
(589913)	16.4	305.38918	33.85620	60.61392	17.45871	0.1994235	3.0927932642467
(589914)	16.3	312.65475	347.10429	117.73828	12.45819	0.2488360	3.1409069642467
(589915)	17.7	95.81090	149.69053	68.34094	10.99561	0.1834760	2.4636068642467
(589916)	17.0	133.73652	262.00802	326.15458	8.05802	0.0396854	3.1590441642467
(589917)	17.5	142.21458	311.15426	47.95250	6.39997	0.0868309	2.7868033642468
(589918)	16.2	3.09978	316.01106	71.84214	28.40167	0.1452364	3.0885838642468
(589919)	16.5	183.10894	261.84663	254.52176	12.14088	0.0635516	3.2310623642468
(589920)	16.6	247.55822	68.33477	71.19764	11.27833	0.0761944	3.1519681642468
(589921)	18.8	341.50988	246.10010	224.62809	2.62450	0.1646469	2.2880392642469
(589922)	17.1	31.33842	12.61011	323.26321	4.81500	0.1225780	3.0769537642469
(589923)	15.9	124.38240	329.55083	260.27192	16.07396	0.1742522	3.1539754642469
(589924)	14.4	318.20006	200.30385	236.59282	14.91276	0.0836664	5.2469637642470
(589925)	16.2	334.57993	180.91353	242.74675	13.11555	0.0437531	3.1282223642470
(589926)	16.5	12.83908	92.72366	285.15426	9.43410	0.0624700	3.1310390642470
(589927)	14.4	232.32897	287.04740	213.60823	4.45397	0.0351209	5.2049452642470
(589928)	16.3	329.14236	326.32534	57.82026	12.64100	0.0273614	3.2261231642471
(589929)	16.4	326.01506	348.53116	73.96451	13.23393	0.1105788	3.1685675642471
(589930)	14.7	317.34882	88.36786	343.89621	8.15917	0.0920796	5.1388013642471
(589931)	14.2	358.15407	279.95806	103.56914	19.85297	0.1247734	5.1822380642472
(589932)	14.6	288.15503	328.23414	123.97860	4.33728	0.0779019	5.1646749642472
(589933)	16.5	218.21195	274.02021	272.53636	8.97530	0.1187762	3.0427984642472
(589934)	14.3	320.72775	172.34763	241.05872	21.52150	0.0953838	5.1787045642472
(589935)	14.2	15.49982	131.45212	235.64637	13.92105	0.0467026	5.1554703642473
(589936)	17.0	100.29074	44.90862	257.78074	8.42072	0.0922111	3.0769638642473
(589937)	14.8	347.28001	172.73672	228.51572	15.05174	0.1429657	5.2134886642473

(589938)	14.2	265.51136	229.17031	234.41840	19.19473	0.0408042	5.2746095642473
(589939)	14.8	353.22681	124.64787	259.08049	6.13827	0.0720510	5.1423463642473
(589940)	14.6	324.90937	330.22864	70.62634	5.19317	0.0757181	5.1119275642474
(589941)	17.9	127.14534	355.16874	86.36628	3.41738	0.0586770	2.6735833642474
(589942)	16.4	60.32748	12.58013	285.74143	8.79133	0.1348555	3.1722793642474
(589943)	18.0	313.88434	137.49624	264.20214	13.91968	0.0280152	2.4241875642474
(589944)	16.0	249.79109	221.81777	283.10315	14.52359	0.0910465	3.1633449642475
(589945)	14.4	259.33940	258.91071	232.37872	17.03373	0.1674373	5.2203041642475
(589946)	16.0	92.21558	216.73223	56.55839	19.79163	0.1677819	3.1868533642475
(589947)	14.5	306.16593	139.91364	290.52986	6.23429	0.0981458	5.3071367642476
(589948)	13.6	318.46322	359.46890	53.28451	23.65204	0.0747443	5.2911663642476
(589949)	17.0	30.98903	132.57047	230.76798	15.22834	0.0642424	3.0932120642476
(589950)	16.5	21.70036	275.17774	70.55561	15.22208	0.2182325	3.1469756642476
(589951)	14.5	268.42575	198.74760	280.27287	8.85328	0.0478215	5.2518870642477
(589952)	17.1	13.17320	330.07411	62.76698	4.55485	0.0547669	3.0977807642477
(589953)	15.8	31.55254	245.95017	80.62841	16.61496	0.2596595	3.1807898642477
(589954)	16.5	22.65594	331.11444	21.78817	17.25002	0.2244416	3.1073507642478
(589955)	16.4	214.09988	151.74627	6.79293	11.68047	0.1388093	3.2035445642478
(589956)	16.6	90.25638	221.97733	68.62544	10.14351	0.0718201	3.1637107642478
(589957)	17.1	45.58791	241.00235	71.02720	1.06355	0.1721813	3.1577491642479
(589958)	14.6	337.13321	327.15424	73.94911	7.41833	0.1016263	5.1900155642479
(589959)	17.9	357.37271	141.48153	222.75576	5.61310	0.1390130	2.3961997642479
(589960)	16.2	193.07776	252.40488	230.18243	20.17260	0.1533202	3.3662191642480
(589961)	16.6	0.86047	103.81306	256.11498	16.00867	0.3627794	3.1310205642480
(589962)	14.5	4.11643	309.01509	84.40487	8.69620	0.0742503	5.1242823642480
(589963)	17.4	125.10841	88.54646	55.56065	2.72661	0.0311193	2.6374328642480
(589964)	14.4	13.77356	98.92606	268.22845	27.97774	0.1432248	5.1798701642481
(589965)	16.4	31.96264	66.42779	278.06175	13.77801	0.1255613	3.1499769642481
(589966)	16.2	332.28376	323.31820	66.86137	10.10950	0.0773654	3.1676042642481
(589967)	17.9	143.35646	218.97288	303.24659	6.51247	0.1348128	2.5443481642482
(589968)	14.0	320.55215	179.92051	241.37402	20.86528	0.1247984	5.2178567642482
(589969)	18.2	1.52248	23.93135	346.06109	1.90763	0.2344569	2.3653746642482
(589970)	16.8	311.09519	198.68715	243.22056	9.50850	0.1835132	3.1587619642483
(589971)	14.5	273.11442	226.19557	241.69165	13.17407	0.0658370	5.1758202642483
(589972)	16.8	289.87012	123.17816	304.15470	8.85220	0.0586588	3.1841641642483
(589973)	16.7	75.50184	47.80765	252.56568	8.10788	0.0471485	3.1934861642484
(589974)	17.9	101.26375	106.50788	109.16106	4.85738	0.1479414	2.5892571642484
(589975)	18.0	135.16158	223.74006	310.74574	3.03549	0.0917273	2.5813177642484
(589976)	16.6	321.33205	317.83267	89.41040	12.06038	0.0935919	3.1802553642484
(589977)	16.4	216.08767	288.97313	255.56559	15.39884	0.0483910	3.0444398642485
(589978)	16.8	332.60703	333.44802	90.94653	11.73199	0.1914096	3.1742229642485
(589979)	18.1	189.60010	250.02571	279.89706	5.52833	0.1167783	2.4551118642485
(589980)	17.8	323.72254	301.01203	87.27990	3.44161	0.2094022	2.4557872642485
(589981)	18.2	273.60450	310.84102	139.66275	2.91677	0.1454568	2.4588898642486
(589982)	16.6	247.33997	6.30864	128.51411	6.63011	0.0650795	2.4540348642486
(589983)	16.5	337.13085	162.50440	248.72304	15.18443	0.0799197	3.1211708642487
(589984)	15.5	41.03461	258.77364	68.34928	11.51858	0.0753239	3.1616257642487
(589985)	16.1	346.58219	293.70367	65.10710	18.26571	0.0653122	3.2315635642488
(589986)	16.1	259.11379	29.70246	104.17288	16.47285	0.1704867	3.1942223642488
(589987)	17.0	262.57658	213.56260	269.41139	4.35117	0.1450644	2.4453423642488
(589988)	17.5	285.39587	144.12312	327.31637	5.87512	0.0733746	2.4268765642489
(589989)	18.6	255.99555	133.89274	315.37854	3.83920	0.1734744	2.4941918642489
(589990)	16.2	234.09663	278.39369	302.70576	7.90189	0.0567369	3.1126697642490
(589991)	17.7	155.60463	246.02432	303.03268	14.26891	0.0590834	2.5478919642490
(589992)	18.3	286.05469	105.48063	315.33995	6.95402	0.0600672	2.4780041642490
(589993)	18.6	300.52737	73.91400	52.64291	5.33019	0.0779039	2.3805872642491
(589994)	17.7	109.85389	293.01604	110.43252	7.25714	0.0708774	2.8910953642491
(589995)	18.2	26.03449	183.77219	121.17283	11.12325	0.0841423	2.5375640642491
(589996)	18.1	249.56186	65.52063	26.46525	5.74086	0.1431827	2.5188190642491
(589997)	17.2	137.80558	226.28070	301.28410	14.87164	0.1242502	2.6158325642492
(589998)	18.1	346.76012	288.88659	127.73368	3.86184	0.1633189	2.3956109642492
(589999)	18.0	91.96582	243.90675	355.16046	4.36761	0.2129557	2.5866509642492
(590000)	16.7	70.91566	302.12565	323.07761	9.72971	0.1780358	2.5712481642492
(590001)	17.0	0.64961	319.04816	315.77061	8.27568	0.1090887	2.6839936642493
(590002)	16.6	120.23988	72.96402	281.75780	7.79535	0.0678683	3.0596328642493
(590003)	18.2	321.74115	277.30382	113.53902	2.70194	0.0425078	2.5123003642493
(590004)	18.1	202.52951	188.96280	66.66224	5.27570	0.1242938	2.3598541642494
(590005)	17.4	149.26414	26.28405	98.15613	5.40093	0.1265848	2.6849973642494
(590006)	17.4	321.34787	69.55851	313.90889	14.57814	0.1219060	2.5091085642494
(590007)	18.6	206.52483	211.02574	95.59005	2.75445	0.0996539	2.2640544642495
(590008)	17.2	171.00695	74.66328	101.48595	11.19912	0.0529150	2.5397148642495
(590009)	17.3	181.17169	201.40185	288.81627	5.60367	0.1014763	2.5868452642496
(590010)	16.0	241.30265	355.93973	122.91625	14.97830	0.0432528	3.4162229642496
(590011)	17.7	139.23904	163.00923	29.38982	5.11688	0.1034957	2.5471561642496
(590012)	17.9	337.04586	69.56047	344.33512	5.01439	0.1596569	2.4253341642497
(590013)	17.4	25.21365	87.24725	267.67548	2.88182	0.1239554	2.4557051642497
(590014)	18.0	181.46343	169.07296	331.54298	8.73320	0.0732970	2.5610908642497
(590015)	18.5	354.34321	66.28870	41.25624	4.64084	0.0372348	2.3308359642498
(590016)	17.4	94.93475	84.71955	322.22701	8.79375	0.1028090	2.9198776642498
(590017)	17.2	154.37314	50.67231	152.00110	9.28318	0.0955132	2.5387241642498
(590018)	18.0	165.31249	11.80298	157.98288	13.47608	0.0999040	2.5859693642499
(590019)	16.7	232.40857	225.22720	353.55982	10.59540	0.0639662	3.1707352642499
(590020)	18.0	37.04459	298.04841	12.04019	4.10586	0.2607443	2.5478669642499
(590021)	16.6	110.57634	70.43632	284.31074	9.94527	0.0958104	3.0967555642499
(590022)	17.2	116.41653	85.90770	279.58719	7.62393	0.0802998	2.9923685642500
(590023)	17.5	102.40330	332.67731	255.93069	3.43721	0.1822570	2.5824911642500
(590024)	18.2	2.24946	354.30511	329.42602	8.40029	0.0364522	2.5621154642500
(590025)	17.8	338.17971	328.59939	292.94438	6.07126	0.1727766	2.7544722642500
(590026)	17.5	16.46635	335.27457	306.28217	13.32778	0.1754067	2.6449975642501
(590027)	18.0	94.85673	113.82237	142.77880	1.10467	0.0558847	2.5416810642501
(590028)	18.0	98.71870	62.64002	172.33437	6.33804	0.1186458	2.5879330642501
(590029)	17.1	185.15144	333.08619	325.10382	8.82393	0.0644218	3.0733320642501
(590030)	17.2	122.12986	197.17012	349.57536	13.71899	0.1867709	2.6457628642502
(590031)	18.4	56.41012	62.40991	198.91115	3.35547	0.2149360	2.6573864642502
(590032)	16.2	221.65703	309.22152	305.32212	12.33849	0.1371723	3.1497754642502
(590033)	17.9	127.32237	247.00001	313.61949	4.21915	0.0496028	2.5937853642502
(590034)	16.7	356.03227	107.97692	328.50210	11.69949	0.0415197	3.2363621642503
(590035)	17.8	228.99446	140.69573	350.59021	12.62356	0.0613877	2.5584487642503
(590036)	18.4	264.43916	311.74633	101.08125	2.42332	0.1475933	2.5529908642503
(590037)	18.0	129.89903	30.43148	177.77573	8.73654	0.1018489	2.5699179642503
(590038)	17.1	350.29261	285.93149	112.87803	9.92704	0.1346730	3.2109418642504
(590039)	18.4	132.13152	307.44229	252.99133	4.47566	0.0301383	2.5855702642504
(590040)	18.0	314.01367	101.74178	348.60029	4.87542	0.2188401	2.4177670642504
(590041)	18.2	101.71877	222.37222	346.89419	3.88037	0.1798494	2.6817115642505

(590042)	17.8	255.93136	98.23892	346.94183	14.78958	0.0904095	2.5589501642505
(590043)	17.6	82.37777	78.14646	136.56418	8.29160	0.2260888	2.6801244642505
(590044)	17.5	40.85324	312.33635	359.95876	8.53089	0.1113944	2.5710419642505
(590045)	16.8	246.67686	330.25191	137.80297	13.46956	0.1650947	2.5342987642506
(590046)	18.7	230.98353	277.59468	347.03067	2.34731	0.1182014	2.3520331642506
(590047)	17.5	58.44172	113.32991	146.26693	11.42148	0.1650088	2.6594541642507
(590048)	17.2	204.83924	38.68676	95.72244	15.67353	0.0806054	2.5757275642507
(590049)	17.0	218.55805	8.63908	122.30741	5.39363	0.1787292	2.5577082642507
(590050)	17.6	110.69681	250.61846	350.77698	3.52637	0.0776758	2.5751500642508
(590051)	17.2	69.02532	264.96055	354.51043	16.71799	0.1774256	2.6628362642508
(590052)	17.6	120.64459	90.19762	143.96557	19.17840	0.1362539	2.5906002642508
(590053)	17.5	227.38845	70.73148	56.72211	6.93364	0.2134841	2.5438892642509
(590054)	17.8	78.81041	232.19927	24.02822	10.08022	0.1509896	2.6395748642509
(590055)	17.6	229.00830	91.72417	1.08152	22.08124	0.0660232	2.6451854642510
(590056)	17.8	10.60065	319.22840	11.18919	8.42514	0.1603396	2.6073534642510
(590057)	17.8	20.81239	213.74179	128.54657	15.56558	0.1495413	2.5413513642510
(590058)	17.7	60.97543	232.66917	15.33901	7.56531	0.1441201	2.7379711642510
(590059)	17.5	71.78513	89.54234	157.47915	16.30423	0.1790043	2.6805762642511
(590060)	17.8	58.89792	330.13286	309.02249	7.78442	0.1281935	2.6623977642511
(590061)	17.6	113.31721	175.71456	17.56625	12.52221	0.1934936	2.6365543642511
(590062)	17.0	150.92913	71.00488	111.99825	8.88104	0.1493754	2.6405744642512
(590063)	17.7	193.72215	145.22139	14.16962	17.78250	0.1193307	2.5833153642512
(590064)	17.2	156.97450	122.12732	50.01145	13.39068	0.2147075	2.6378342642512
(590065)	16.7	276.78085	78.28335	13.37445	7.28294	0.1673209	2.5763280642513
(590066)	17.1	267.43753	29.38683	74.42591	6.91308	0.1510182	2.5336328642513
(590067)	17.9	303.71584	67.77709	7.14194	15.21458	0.0859532	2.5395048642514
(590068)	17.5	335.18935	270.20619	121.88614	11.43518	0.1290316	2.5436199642514
(590069)	17.6	96.16674	296.42964	293.50562	3.73568	0.1122235	2.6677415642514
(590070)	16.6	89.98446	198.97630	93.60545	7.24145	0.1752508	2.5843741642515
(590071)	17.5	61.76407	74.81741	194.96876	8.66413	0.1293833	2.6756184642515
(590072)	16.3	327.31501	189.26682	203.39880	14.44849	0.1032341	2.5702359642516
(590073)	16.8	63.05116	147.41609	145.25795	10.74770	0.1233893	2.6011826642516
(590074)	18.2	222.50882	114.30852	2.97061	13.73411	0.0925573	2.5959642642517
(590075)	16.9	68.46587	199.19590	107.79576	5.92214	0.0367911	2.5282390642517
(590076)	17.9	99.13654	60.58018	157.87030	13.55005	0.2065401	2.6722724642518
(590077)	18.2	306.00198	61.56388	352.36308	14.84758	0.1179605	2.5561179642518
(590078)	17.6	123.14211	350.46422	231.47761	3.15923	0.0842542	2.6105479642518
(590079)	17.6	331.19925	54.24672	336.25345	6.86423	0.1289860	2.5606110642518
(590080)	17.4	105.37762	282.00577	309.85796	7.13425	0.0850231	2.6433749642519
(590081)	17.5	144.82266	191.88862	354.63073	13.56637	0.1313064	2.6371930642519
(590082)	16.9	207.45983	321.86564	341.46527	9.48684	0.0567256	3.1084704642519
(590083)	17.5	57.21248	88.71246	188.52280	15.47357	0.1699659	2.6670301642520
(590084)	18.6	17.08343	118.21192	322.35455	1.98494	0.1819385	2.3778132642520
(590085)	18.1	297.68466	43.10153	344.53915	2.27562	0.0181613	2.6569468642520
(590086)	17.2	102.12711	128.17468	119.47052	13.58116	0.1085793	2.6045001642520
(590087)	17.8	306.49248	353.39126	84.16507	9.92986	0.1664760	2.5183381642521
(590088)	17.5	32.98668	261.56734	70.88920	14.61001	0.1476093	2.5599549642521
(590089)	17.6	142.10799	151.98524	81.09179	13.10488	0.1351018	2.5849318642521
(590090)	17.8	160.85565	291.74218	347.05291	0.90947	0.1659681	2.4436621642522
(590091)	17.3	102.83199	179.13061	59.21969	16.07571	0.1026239	2.6258971642522
(590092)	16.7	13.63212	318.16652	173.49080	18.11690	0.2580501	3.0681519642522
(590093)	17.6	331.23362	258.19693	123.53074	11.95961	0.1231583	2.5550772642523
(590094)	17.9	128.65575	270.80637	233.22691	3.34685	0.0409318	2.7547814642523
(590095)	17.4	162.11481	337.30687	185.58474	12.70945	0.0992439	2.6900887642523
(590096)	17.7	183.99079	52.57382	108.04232	7.24138	0.1205462	2.5952694642523
(590097)	16.8	302.20631	318.28117	102.88302	13.37411	0.1933952	2.5281889642524
(590098)	16.6	342.82329	260.69034	241.67689	8.49297	0.0634833	3.1661098642524
(590099)	17.8	220.73973	282.76689	222.09501	12.71965	0.0731613	2.5687864642524
(590100)	17.5	176.90816	159.67543	3.19462	10.45862	0.0883444	2.6308825642525
(590101)	17.6	126.04467	219.24324	305.85867	2.15338	0.1435522	2.6987322642525
(590102)	17.0	153.18901	277.96668	192.73016	24.52615	0.1652875	2.7458088642525
(590103)	16.4	193.63143	305.22447	355.65519	4.01349	0.1306993	3.1913165642526
(590104)	17.7	273.59445	65.97032	11.30038	14.84507	0.0727801	2.5882395642526
(590105)	17.9	77.10503	117.45718	141.72933	13.00490	0.2307606	2.6874748642526
(590106)	17.9	357.86654	255.11784	101.80968	10.08089	0.1375915	2.5891976642527
(590107)	17.8	297.58951	80.36054	349.33460	13.38284	0.1443779	2.5528286642527
(590108)	18.0	184.57710	217.20466	333.77615	5.47389	0.0478661	2.5706886642527
(590109)	17.5	32.82615	93.36542	216.69344	16.25878	0.1806389	2.6810741642527
(590110)	17.0	129.31438	312.48228	231.67086	12.36761	0.1967734	2.6754109642528
(590111)	17.8	95.16444	81.64317	113.16696	9.82285	0.1166800	2.7590633642528
(590112)	17.2	58.30112	225.08003	48.34395	10.08075	0.2128652	2.7252013642528
(590113)	16.9	120.89990	153.28111	92.96191	6.70162	0.0600148	2.6206440642529
(590114)	16.2	81.89290	217.38362	67.84770	15.52546	0.0991673	2.6445478642529
(590115)	17.4	353.29925	311.26613	87.66218	8.84275	0.0936125	2.5537914642530
(590116)	17.4	120.52736	118.97055	124.64551	12.63588	0.0126468	2.6398223642530
(590117)	16.5	211.57901	238.63266	80.79538	17.49278	0.2190645	3.2001301642530
(590118)	16.5	63.97978	167.19143	124.16619	12.63446	0.1744832	2.6988970642530
(590119)	17.3	309.69834	0.15354	44.51434	3.67473	0.0751861	2.5936381642531
(590120)	16.8	98.09696	150.55062	91.08010	14.83424	0.2131133	2.6816509642531
(590121)	16.9	27.08236	216.20136	92.85903	17.86750	0.1229490	2.7295881642532
(590122)	17.2	28.97480	180.65056	136.66700	13.97385	0.1792701	2.6632051642532
(590123)	17.2	357.53245	270.26405	62.91464	8.33973	0.2337023	2.7676272642533
(590124)	16.4	323.23113	296.35812	77.60228	15.27910	0.0399988	2.6964381642533
(590125)	17.2	231.60651	318.13481	177.90994	16.33758	0.1281624	2.6098187642533
(590126)	17.3	265.31683	282.57958	181.51480	8.24349	0.1534792	2.5977518642534
(590127)	17.4	52.56465	179.70392	127.91317	9.07642	0.0927021	2.6265974642534
(590128)	17.3	93.83563	117.91478	112.56348	13.76029	0.1439024	2.7225524642534
(590129)	17.6	34.42647	214.13804	98.32391	12.69130	0.1482200	2.6957089642535
(590130)	17.1	5.56069	279.47229	91.43475	12.45547	0.1293912	2.6297893642535
(590131)	18.6	42.77009	34.45677	233.92854	6.08616	0.1572661	2.1682991642535
(590132)	16.6	249.61666	338.53403	107.05230	22.76868	0.0303347	2.6799284642536
(590133)	17.7	31.36749	115.56571	183.93494	11.26339	0.0600066	2.7268242642536
(590134)	16.8	348.45532	265.13783	109.89134	15.34127	0.1498306	2.6597793642536
(590135)	17.8	50.40930	246.46318	25.29505	3.63952	0.1602464	2.7473788642536
(590136)	17.6	77.28532	172.63999	86.56654	7.64796	0.0984223	2.7156534642537
(590137)	18.3	67.18562	0.86575	252.30143	3.62007	0.1610556	2.1539853642537
(590138)	17.4	171.60429	317.49854	298.21491	3.44473	0.1435696	2.5441027642538
(590139)	17.4	203.74265	285.26741	224.36882	11.52674	0.1700085	2.6125072642538
(590140)	17.6	309.45172	344.42439	81.49843	9.21395	0.1026750	2.6285168642538
(590141)	17.6	298.51165	39.94403	112.20742	3.97616	0.0875677	2.4601386642539
(590142)	17.2	26.68280	82.13151	243.50275	15.88837	0.1687372	2.7279362642539
(590143)	17.6	59.24332	13.27419	244.74589	14.23645	0.0644000	2.7646621642539
(590144)	18.0	63.44665	194.63638	81.82996	3.73281	0.1748157	2.7119499642539
(590145)	18.8	24.85391	138.93284	152.47439	4.41524	0.1812576	2.1716010642540

(590146)	17.1	47.50599	30.59230	239.63507	14.99692	0.1949542	2.7931370642540
(590147)	17.0	52.00503	178.45612	117.34979	13.21709	0.1687992	2.7950050642540
(590148)	18.5	82.45809	246.24304	356.54160	4.69624	0.0823218	2.1845469642541
(590149)	17.1	37.15522	214.25529	104.03662	7.19474	0.0393032	2.7672040642541
(590150)	17.1	293.61229	168.17140	276.31149	8.38078	0.0203303	2.7770873642541
(590151)	17.6	129.18362	353.78298	272.22714	5.54191	0.0488755	2.7287450642541
(590152)	17.2	70.40732	324.58938	316.80788	3.74091	0.1198000	2.8421674642542
(590153)	18.7	133.12809	194.34214	11.57461	7.70432	0.0344017	2.1923262642542
(590154)	17.0	348.18270	7.84837	350.93703	5.71013	0.0960372	2.8957865642542
(590155)	16.8	356.14220	129.44402	244.53582	8.16187	0.1454219	2.8501134642543
(590156)	18.3	19.38078	15.56925	291.77187	5.59941	0.2066645	2.2084014642543
(590157)	16.9	348.34934	242.20048	130.45406	6.37050	0.0703243	2.8185698642543
(590158)	16.9	42.24445	77.90706	238.24517	7.19298	0.1021921	2.8499589642544
(590159)	17.4	80.70131	208.61602	103.36707	7.80520	0.0421890	2.7249371642544
(590160)	17.6	5.48238	196.61138	135.76047	7.01658	0.0534936	2.8942665642544
(590161)	16.8	19.44689	23.82178	295.91864	8.20495	0.0803989	2.9205455642545
(590162)	18.1	35.08738	341.38338	306.25719	7.82113	0.1755356	2.2163040642545
(590163)	17.7	73.84102	86.22053	176.17917	14.36839	0.1358289	2.8847327642545
(590164)	19.5	291.39067	76.32762	342.60578	17.49727	0.1116687	1.8283045642545
(590165)	17.1	357.09353	356.28793	344.20919	8.77157	0.0734810	2.9213147642546
(590166)	16.4	97.48028	222.91903	29.24938	11.54395	0.0433068	2.9159704642546
(590167)	17.4	286.75510	201.73569	243.50724	1.02230	0.0331063	2.8704003642546
(590168)	17.4	71.06639	27.36346	226.46177	4.84823	0.1204324	2.9642344642546
(590169)	17.0	344.41145	111.38341	298.97735	7.94415	0.0521158	2.7950554642547
(590170)	17.4	18.61622	250.88307	73.15870	12.98463	0.2633331	2.8969815642547
(590171)	15.9	47.89733	54.73153	267.02902	14.01679	0.1539000	2.8405893642547
(590172)	16.4	247.44840	57.86156	19.00818	14.67658	0.2004741	3.0888376642548
(590173)	17.5	233.83813	262.72142	190.02000	8.41263	0.0951099	2.9963125642548
(590174)	18.6	82.28254	33.44566	196.61845	5.92883	0.0784998	2.2560100642548
(590175)	16.9	337.33970	89.51880	288.20871	6.97191	0.0618196	2.9315637642549
(590176)	17.4	5.64278	247.07882	100.62939	3.08256	0.1420093	2.9285452642549
(590177)	18.7	271.35235	79.60740	351.71710	6.11667	0.1500058	2.2521872642549
(590178)	17.2	65.61988	260.12404	354.43091	0.46406	0.1002189	2.9875041642549
(590179)	18.8	73.51460	259.38257	19.09573	7.54731	0.1063384	2.2124572642550
(590180)	18.1	345.27207	141.54730	209.76438	4.76008	0.2210519	2.2415817642550
(590181)	18.5	335.22726	17.49833	1.57104	7.14773	0.0762205	2.2359015642550
(590182)	17.2	8.68877	135.80577	209.97006	1.30873	0.0856915	2.8645424642551
(590183)	17.9	80.76919	3.44111	8.81972	2.00756	0.1065825	2.6519769642551
(590184)	17.2	4.88705	345.82103	0.70671	8.51597	0.0921549	2.8985940642551
(590185)	18.3	332.09417	200.06932	179.12637	5.75795	0.1892497	2.2394272642552
(590186)	16.8	327.42308	165.07744	220.80333	10.35306	0.1412899	2.9437742642552
(590187)	17.4	128.05166	352.37383	309.42644	4.02639	0.0882554	2.7303554642552
(590188)	17.3	51.25517	357.32585	295.46909	8.05893	0.0874212	2.8654355642552
(590189)	17.6	342.34197	114.10488	294.86223	3.19136	0.0678616	2.8020459642553
(590190)	16.3	121.98215	3.53976	223.19355	9.15517	0.0443784	2.9301990642553
(590191)	17.1	239.25845	110.43720	346.75340	8.54100	0.1626981	3.0015110642553
(590192)	16.1	23.56658	216.59141	100.43079	11.78481	0.1183328	2.9473317642553
(590193)	18.4	280.16242	30.53202	49.02293	5.28464	0.1428496	2.2443132642554
(590194)	18.2	311.88169	313.18083	85.61156	7.68091	0.0708017	2.2305118642554
(590195)	16.9	344.91523	295.05192	113.39982	8.98072	0.1678255	2.8862996642555
(590196)	16.8	284.46708	196.20596	271.33241	7.43338	0.1867847	2.9091234642555
(590197)	16.9	8.58946	324.47635	19.07136	10.75350	0.1093438	2.9856794642555
(590198)	17.1	340.78809	147.10645	214.96066	27.25339	0.1356918	3.0388227642555
(590199)	16.9	101.80946	234.03416	330.05511	12.81502	0.1600530	2.9541741642556
(590200)	17.3	79.09721	20.98045	289.35192	3.34088	0.0567681	2.7675256642556
(590201)	18.8	145.00595	42.52703	150.33951	5.75681	0.0265716	2.2226056642556
(590202)	18.7	213.47237	42.92794	79.90971	6.43804	0.0302081	2.2602531642556
(590203)	18.7	25.98467	303.26311	357.96636	6.89768	0.1180802	2.2295370642557
(590204)	17.2	84.04374	81.29918	169.04047	12.21318	0.1087651	2.9448289642557
(590205)	17.6	327.55207	5.49233	66.26545	6.37460	0.0635685	2.8127386642557
(590206)	16.8	244.20612	308.04245	117.52213	11.87237	0.0743019	3.1308028642557
(590207)	13.3	275.55181	231.52077	243.94197	19.53824	0.1909984	5.1691541642558
(590208)	16.9	264.86442	68.43311	11.21744	10.27473	0.0717872	2.9805896642558
(590209)	17.1	22.06632	162.48668	232.16697	6.99765	0.2203784	2.8056474642558
(590210)	17.0	227.30145	239.35082	221.33880	6.57925	0.1186902	3.0756049642559
(590211)	17.5	224.44654	337.94630	142.57545	10.96644	0.1061187	2.2688111642559
(590212)	17.0	28.23411	210.18984	130.80670	10.98201	0.1026740	2.8991918642560
(590213)	17.7	43.49983	238.54997	220.71721	13.27514	0.2382742	2.6392669642560
(590214)	16.8	245.57233	250.46215	220.21699	9.69132	0.0779047	2.9797579642560
(590215)	17.2	313.34689	240.03563	117.02457	11.37900	0.0622922	3.0910485642561
(590216)	17.1	213.23996	338.98141	135.64428	12.52672	0.0447524	3.0707467642561
(590217)	17.6	108.90028	64.35846	307.43912	0.90879	0.0923159	2.6726045642561
(590218)	8.8	280.86883	231.29481	298.89321	10.72586	0.3164028	16.3008044642562
(590219)	16.6	106.15246	325.08266	271.70399	9.36571	0.1288292	2.9861195642562
(590220)	17.1	323.41257	141.40603	235.09415	14.47452	0.1648548	3.0616913642562
(590221)	16.6	330.86034	15.54551	359.05817	6.22904	0.1302528	3.0389167642563
(590222)	18.8	337.67312	235.60830	152.11254	3.35193	0.1556438	2.2339739642563
(590223)	17.0	349.45870	87.79463	272.12740	6.22010	0.2840129	2.9826402642563
(590224)	18.8	351.37391	21.76660	334.72763	6.99543	0.1168844	2.2314891642564
(590225)	16.3	342.73888	144.21822	221.84428	9.08842	0.0922097	3.0271243642564
(590226)	18.7	244.99291	230.95472	213.04676	20.25376	0.1260124	1.8663668642564
(590227)	17.0	315.85034	294.98860	53.69389	6.39798	0.1797021	3.1337817642565
(590228)	16.9	263.02553	40.34511	33.26584	14.54447	0.1430159	3.1188582642565
(590229)	18.4	337.94496	142.41818	263.98347	4.01486	0.1431293	2.1967568642565
(590230)	18.7	337.31245	141.58700	237.47591	3.18604	0.1664645	2.2367009642565
(590231)	16.7	305.78348	352.97855	42.00612	13.45922	0.1009862	3.0725936642566
(590232)	16.8	299.67289	94.97609	312.61636	2.50901	0.0762392	3.0637387642566
(590233)	18.4	335.98822	300.96686	93.24375	6.93875	0.1584167	2.2329638642566
(590234)	16.7	301.78440	215.85343	207.89092	10.35939	0.0863043	3.0128903642567
(590235)	16.6	146.90505	292.58568	252.54068	8.09091	0.0882113	3.0154911642567
(590236)	17.3	267.41860	317.41948	133.88516	7.12004	0.1385055	3.0500527642567
(590237)	17.0	272.24617	178.54738	248.80729	6.07487	0.1354785	3.0770260642568
(590238)	17.7	6.32559	62.58439	268.16430	6.37923	0.2579288	2.2408395642568
(590239)	16.9	13.84153	161.21686	162.29014	13.09790	0.0853282	3.0211149642568
(590240)	16.6	278.98778	63.18444	347.21301	17.27429	0.2370698	3.0696809642569
(590241)	18.6	322.42498	173.03469	214.50870	21.28440	0.1041157	1.8471061642569
(590242)	16.4	118.05541	166.35813	23.93884	26.61328	0.1783714	2.3407709642569
(590243)	17.7	24.05466	250.03590	78.72492	5.86707	0.1939370	2.1979846642571
(590244)	18.8	239.94521	116.93451	336.54757	3.66026	0.2077640	2.3234936642571
(590245)	17.2	199.13861	184.50242	340.14071	5.39537	0.0491067	2.9464588642571
(590246)	16.8	235.98085	61.09140	351.76031	8.38042	0.0885929	3.1830497642572
(590247)	16.8	287.79477	331.40823	250.73582	6.51204	0.1654718	2.6135957642572
(590248)	17.2	221.05178	82.12200	51.88890	7.46695	0.0616071	3.0534205642572
(590249)	16.6	48.48575	223.39167	65.32678	5.89187	0.1506801	3.0469457642572

(590250)	17.0	143.28080	317.94615	229.06447	7.56161	0.0281740	3.0913852642573
(590251)	18.4	44.19137	259.08073	29.85034	7.47884	0.1523154	2.2755361642573
(590252)	17.9	295.81817	79.89307	332.30387	1.34724	0.2087657	3.0549834642573
(590253)	16.9	288.98646	291.85495	113.06167	8.89081	0.2047253	3.0619758642573
(590254)	19.0	260.61265	251.49972	182.61053	1.39753	0.1770210	2.2867617642574
(590255)	17.6	305.94919	83.86587	296.66797	1.40112	0.2182102	3.0915895642574
(590256)	16.8	359.44772	101.91529	248.31003	14.86969	0.1708131	3.0084154642574
(590257)	16.3	330.28898	18.25447	8.93785	18.35199	0.0757584	2.9719305642574
(590258)	17.0	26.99878	343.77642	354.32201	5.41342	0.0834503	2.9271501642575
(590259)	17.3	309.69725	216.50695	194.91472	1.64285	0.0853520	2.9763926642575
(590260)	17.0	20.27318	104.01717	218.00642	8.14946	0.1050648	2.9939945642576
(590261)	17.4	342.10879	111.44346	224.28133	14.71648	0.1328632	3.0547273642576
(590262)	18.6	19.17527	253.13568	84.82584	6.25220	0.1561843	2.2428599642576
(590263)	16.9	338.50647	299.71347	86.05473	7.07740	0.2208832	2.9549513642576
(590264)	16.9	335.83192	31.24227	335.70546	10.99051	0.0676058	3.0160806642577
(590265)	16.4	53.75701	103.28973	184.60647	9.56530	0.0484466	2.9848632642577
(590266)	16.9	35.96083	119.22089	188.97098	10.01678	0.0740929	2.9896305642577
(590267)	17.4	152.58449	128.39532	181.78743	8.63537	0.0217671	2.6925928642578
(590268)	17.0	331.15377	155.54885	275.12179	5.16538	0.3118920	2.8613854642578
(590269)	16.7	344.19291	256.75362	155.34979	13.10289	0.1203004	2.8440208642578
(590270)	17.0	257.09986	91.32437	16.98286	10.24561	0.0273897	2.9632729642579
(590271)	18.4	2.99214	310.24177	15.31045	8.41252	0.2102382	2.2518677642579
(590272)	17.2	264.36254	322.86925	139.02664	3.81042	0.1284336	2.9656515642579
(590273)	17.2	315.94816	192.57909	211.37193	8.98444	0.0522654	3.0015187642580
(590274)	16.5	338.49034	331.34818	65.94825	10.39985	0.1760731	2.9701905642580
(590275)	17.5	281.75496	10.70434	77.03303	2.18971	0.1464272	2.9640236642580
(590276)	16.8	99.38113	315.71970	297.26115	8.03962	0.0683470	2.9747779642581
(590277)	16.8	26.46336	189.17940	99.70050	7.45094	0.0775448	3.0801641642581
(590278)	17.1	280.06917	293.75861	130.76254	7.99306	0.1863956	3.0593223642581
(590279)	16.3	30.30483	281.55643	45.35650	12.79489	0.1100098	2.8957953642582
(590280)	18.4	342.51511	331.36223	43.13341	22.19216	0.0857567	1.8307497642582
(590281)	17.7	135.08696	135.60985	50.43019	23.57449	0.0557906	1.8921891642582
(590282)	18.5	323.50084	123.54064	247.27861	17.07465	0.1728827	1.8445411642583
(590283)	16.1	197.24657	251.05386	248.55565	14.97841	0.1813286	3.1351963642583
(590284)	16.5	294.43580	208.95276	260.07048	14.09427	0.0968108	2.8365465642583
(590285)	16.6	165.43102	306.68070	228.45054	26.66123	0.1864169	3.0896285642584
(590286)	17.0	350.13477	166.24457	209.78365	9.58195	0.1009734	2.9788251642584
(590287)	16.6	156.08499	137.70981	29.47932	16.72142	0.0347393	3.0731339642584
(590288)	17.1	309.72480	225.75048	171.04489	12.11907	0.1638450	3.0243111642584
(590289)	16.9	289.51675	222.94483	219.14080	23.92658	0.0755152	2.9895469642585
(590290)	17.1	249.86294	124.95884	322.89996	10.25034	0.2104147	3.1221200642585
(590291)	16.7	359.93393	245.17077	99.32358	16.66350	0.0744992	3.0380638642585
(590292)	19.3	5.34255	88.44480	216.00225	20.92918	0.0757351	1.8689745642585
(590293)	18.9	180.71455	314.22026	188.05939	3.45363	0.0914572	2.3306354642585
(590294)	17.7	105.43395	72.28935	223.45580	12.14194	0.1694205	2.8796404642586
(590295)	17.0	307.69693	304.04072	105.40216	9.57740	0.1268734	3.0104008642586
(590296)	17.1	333.21416	128.50982	229.54253	19.96772	0.0297194	2.9771185642586
(590297)	18.6	257.57608	24.43508	66.78403	5.89251	0.1055927	2.2633431642587
(590298)	17.0	262.93545	57.76932	36.99006	10.11776	0.0832488	3.0282836642587
(590299)	17.3	254.53543	73.29834	70.34432	15.75463	0.1054572	2.8845434642587
(590300)	17.1	355.88222	347.36480	51.36648	7.30640	0.0662488	2.8547384642587
(590301)	17.2	304.25123	175.22471	328.69527	2.01306	0.0383568	2.7303324642588
(590302)	16.6	57.96227	2.74206	249.74365	13.92637	0.0972391	3.1021940642588
(590303)	17.2	254.96163	251.45088	178.32720	13.55904	0.0989311	3.1491127642588
(590304)	17.4	32.59031	29.66576	50.94881	5.68452	0.0894947	2.7146432642589
(590305)	17.3	295.70659	277.24860	117.99615	5.05243	0.1189624	3.1024877642589
(590306)	17.5	297.44652	271.62431	153.70014	2.74989	0.0653811	3.0100128642589
(590307)	17.3	329.96870	106.18169	254.71755	8.20457	0.1288227	3.0421123642589
(590308)	16.9	216.74155	44.67438	54.33711	9.46378	0.0509395	3.1111566642589
(590309)	16.9	155.80962	101.38907	50.91515	9.75574	0.0948905	3.1302219642590
(590310)	16.8	264.20415	182.57678	224.56647	8.15310	0.0787569	3.1220193642590
(590311)	16.4	57.87105	340.01616	349.68748	10.06603	0.0868801	2.8726281642590
(590312)	16.8	261.63604	350.45471	91.83488	13.16139	0.1651890	3.0545424642591
(590313)	17.1	306.55574	195.47714	237.52536	2.65004	0.1058170	2.9812418642591
(590314)	17.4	108.09558	311.50591	68.38888	7.30871	0.0384094	2.6879732642591
(590315)	16.9	264.39310	192.56689	228.40244	8.38622	0.0814535	3.0974943642592
(590316)	16.4	264.45945	170.09383	316.85614	14.76020	0.1848012	2.9720403642592
(590317)	17.3	312.00519	78.03624	307.70472	8.27708	0.0596985	3.0419319642592
(590318)	17.0	148.38518	125.38566	68.79611	12.35125	0.0435055	3.0694699642592
(590319)	17.2	26.52501	36.67446	322.79529	6.46284	0.1277169	2.8882542642593
(590320)	16.8	165.26577	106.59293	69.11289	5.75423	0.0182778	3.0542966642593
(590321)	17.1	213.02703	148.94980	326.63849	10.01660	0.1050459	3.1419049642593
(590322)	18.6	261.86672	11.42816	78.54339	4.93509	0.0552625	2.2870120642593
(590323)	15.7	9.64801	269.04549	72.87009	11.70367	0.2043600	3.0120142642594
(590324)	16.0	318.26645	341.99020	70.74855	17.66225	0.1633672	2.9874889642594
(590325)	17.8	89.28652	17.38319	238.99760	6.21845	0.1430497	2.2616858642595
(590326)	17.0	235.39421	47.11934	51.00534	10.61736	0.1912244	3.1522385642595
(590327)	17.5	166.39245	236.27759	40.46918	6.64852	0.0374105	2.7185799642596
(590328)	15.9	359.03703	81.36528	245.52725	14.28519	0.0295725	3.1444715642596
(590329)	17.1	332.66115	325.66381	46.99896	1.42175	0.1238096	3.0527178642596
(590330)	16.5	309.52520	170.18208	240.99465	9.00652	0.0797990	3.0278735642597
(590331)	16.9	315.05767	330.66638	62.42816	11.90110	0.0840433	3.0262279642597
(590332)	16.7	42.78895	6.67513	310.15777	9.71333	0.0680112	3.0146497642597
(590333)	15.7	132.60618	13.43240	206.84287	9.90862	0.0623709	3.0277290642598
(590334)	16.6	325.77873	250.96711	246.46229	12.82096	0.0232508	2.7623000642599
(590335)	16.3	242.71465	203.26374	272.96737	11.69430	0.0798349	3.0519001642599
(590336)	18.6	357.66149	235.51419	126.06766	7.16241	0.1973514	2.2205901642599
(590337)	15.9	228.33740	22.44750	80.92084	18.57572	0.0449417	3.1387686642600
(590338)	15.9	4.85718	126.27536	231.88645	15.42017	0.0893888	3.0329432642600
(590339)	16.7	307.16664	176.50695	272.72491	11.40006	0.0948363	2.9164947642601
(590340)	15.9	80.48425	11.09144	240.22536	16.64912	0.1500894	3.0868049642601
(590341)	16.8	335.77060	96.56193	244.46365	8.51201	0.0927382	3.1282155642601
(590342)	17.0	350.89640	290.72774	80.12373	11.64458	0.0315472	3.0234283642602
(590343)	16.6	18.61552	219.40566	104.95064	3.57057	0.1275852	3.0635050642602
(590344)	17.6	328.59596	281.36689	168.50342	2.06526	0.0293349	2.8644848642602
(590345)	17.1	320.96746	332.62256	99.22891	4.05841	0.2686419	2.9083264642603
(590346)	16.9	309.74580	204.63066	243.23178	10.82272	0.0070257	2.9318179642603
(590347)	17.1	54.57075	297.33310	71.20579	7.31214	0.1316904	2.8078052642604
(590348)	16.6	172.78802	215.88320	284.66995	8.57713	0.1643206	3.2366674642604
(590349)	18.8	29.20840	62.25987	244.22217	19.50889	0.0479226	1.8649372642604
(590350)	17.0	289.67491	225.69109	186.58379	8.50356	0.1843494	3.0999207642605
(590351)	17.1	291.87617	175.48427	246.27068	9.41605	0.0832368	3.0455050642605
(590352)	13.6	210.27910	259.20994	258.19013	21.36681	0.0463154	5.2657984642605
(590353)	16.6	38.95693	340.03832	4.92849	1.68622	0.1026172	2.9415439642605

(590354)	17.2	270.73795	10.13511	103.05153	10.93566	0.1721544	2.9952762642606
(590355)	16.9	259.15128	233.94541	227.56174	9.82167	0.1144425	3.0497627642606
(590356)	16.6	248.11312	351.56526	114.96943	9.02232	0.1743957	3.1122689642606
(590357)	16.2	238.82717	192.27187	273.95080	15.88001	0.1337805	3.1610811642607
(590358)	17.9	128.44503	195.24682	288.05089	1.92790	0.1328297	2.4684848642607
(590359)	17.1	57.70449	143.77085	145.80579	2.23692	0.0239109	3.0318011642607
(590360)	17.8	4.97212	337.24247	204.24083	7.65292	0.1030329	2.5610881642608
(590361)	16.0	234.12597	151.15164	27.35445	12.22959	0.1170563	3.0063380642608
(590362)	16.9	13.82398	225.80517	73.76997	3.11758	0.0540170	3.1578029642609
(590363)	16.9	194.42550	119.58772	38.20251	11.29446	0.0835250	3.0634481642609
(590364)	14.0	234.57397	79.79012	61.76465	10.52728	0.0442746	5.2204913642609
(590365)	16.1	259.99217	168.07997	297.58690	11.60946	0.1286319	3.0999602642610
(590366)	16.7	291.25500	203.99922	236.83077	10.65073	0.0912990	3.0407488642610
(590367)	16.3	335.24503	128.96676	248.01379	26.38983	0.1676678	3.0453003642610
(590368)	16.6	87.14662	314.60935	304.70648	14.42584	0.0521282	3.1603780642610
(590369)	16.7	345.61630	330.98366	43.71015	11.35538	0.0718248	3.0650210642611
(590370)	16.3	1.86054	358.00332	0.13187	12.86892	0.1164319	3.0700365642611
(590371)	17.1	166.34635	32.99769	134.77732	13.76397	0.0726689	3.1528117642611
(590372)	17.2	237.38020	113.99303	347.43079	1.38984	0.1646405	3.1551261642611
(590373)	17.1	318.09288	240.43840	166.78383	8.47173	0.0630081	3.0196298642612
(590374)	17.3	353.10258	126.53342	244.81442	9.11840	0.0803449	3.0067155642612
(590375)	14.7	296.66224	149.09625	291.52088	14.52027	0.0659605	5.2258934642612
(590376)	13.4	320.22649	328.93754	91.93189	15.12072	0.0631266	5.3007398642612
(590377)	16.4	260.83829	206.54323	283.75845	9.93201	0.1385488	3.0480533642613
(590378)	16.0	299.87258	189.83453	261.19866	10.24311	0.1527074	2.9970352642613
(590379)	14.5	304.34858	126.09277	320.00639	9.69847	0.0912970	5.1756253642614
(590380)	16.7	41.84320	72.05098	255.27539	6.50804	0.2428701	2.9450075642614
(590381)	16.4	303.12840	5.70279	101.22852	10.94400	0.0469547	2.9685628642614
(590382)	15.5	218.79770	233.66679	284.93464	21.41561	0.1613623	3.1332111642615
(590383)	17.5	200.89476	24.22242	123.79476	10.79819	0.1566387	2.3642989642615
(590384)	18.5	251.00193	147.07210	321.37472	3.69354	0.1678478	2.3162361642615
(590385)	15.8	209.81237	230.05105	298.93210	14.78341	0.1924663	3.1465106642616
(590386)	16.8	114.24295	248.14238	342.35334	9.08942	0.0182759	3.1768357642616
(590387)	16.9	253.68296	143.25739	330.21944	7.15784	0.2085442	3.1026878642616
(590388)	16.7	322.20023	71.49666	319.83661	8.60794	0.0780930	3.1709599642617
(590389)	14.2	328.16877	305.64181	138.26444	10.77291	0.0595428	5.1317003642617
(590390)	16.3	280.40587	178.95196	291.91166	15.91217	0.1819237	3.0465859642617
(590391)	18.0	275.70653	131.44263	311.53017	6.03452	0.1368736	2.2831294642618
(590392)	18.1	311.53102	178.54513	269.07945	3.76014	0.1038860	2.2468046642618
(590393)	16.6	53.83729	342.80339	321.39956	4.66938	0.0240057	3.1461651642618
(590394)	16.3	271.68114	30.05651	101.04350	11.25462	0.0561576	3.0322671642619
(590395)	18.1	185.71263	29.64914	100.06459	25.33779	0.0562767	1.9055619642619
(590396)	17.1	107.35483	282.66152	117.38936	3.09100	0.0914963	2.7008592642619
(590397)	15.0	162.15717	283.26504	310.49105	19.64850	0.1067464	3.1109998642620
(590398)	16.2	225.49303	51.05085	67.59360	17.33665	0.1582423	3.1921648642621
(590399)	16.4	163.62664	324.34833	253.11796	12.90809	0.0626982	3.0036662642621
(590400)	18.8	246.21350	69.51850	27.46526	6.29037	0.1811598	2.3293436642621
(590401)	13.8	22.28589	73.02942	283.68553	20.24533	0.0739413	5.1799759642622
(590402)	17.7	283.77343	143.25690	320.10405	25.52677	0.2624908	2.2721282642622
(590403)	17.7	300.84438	136.84454	282.24208	7.68187	0.0888763	2.3152778642622
(590404)	14.2	266.99972	171.16565	307.97654	18.73554	0.1040930	5.2621624642623
(590405)	18.3	320.87945	100.98335	301.08589	6.15572	0.1095684	2.2992633642623
(590406)	16.4	242.74862	46.98887	78.13564	13.38029	0.1165420	3.1056839642623
(590407)	16.8	308.00000	261.84416	137.69925	9.66470	0.0682183	3.1883684642624
(590408)	16.8	256.84262	134.01060	297.94958	26.60498	0.1887725	3.2207038642624
(590409)	17.2	255.30498	305.76488	146.54883	11.40659	0.0788987	3.1881464642624
(590410)	16.8	249.17420	229.10627	253.94127	10.80343	0.0808212	3.0232722642625
(590411)	16.4	226.45009	180.23356	321.55129	12.82140	0.1900468	3.1261724642625
(590412)	16.6	259.38604	336.58232	90.21739	17.12994	0.0572527	3.1757697642625
(590413)	18.5	221.96701	196.01876	290.34364	6.69553	0.0463914	2.3114395642625
(590414)	14.1	335.22123	92.28898	319.40787	17.77415	0.0985289	5.2852668642625
(590415)	18.5	283.54904	306.11754	104.17360	23.26515	0.0771288	1.8846762642626
(590416)	16.9	18.19333	259.27040	92.25269	12.47869	0.0977012	2.9787388642626
(590417)	13.9	318.44557	122.25130	309.18500	16.32370	0.1337747	5.1774319642626
(590418)	14.0	267.75668	206.85679	282.20170	19.71700	0.0713870	5.2699368642627
(590419)	14.4	344.86879	316.32191	100.39216	18.79501	0.0911248	5.2310095642627
(590420)	16.6	247.66294	194.48023	283.68838	15.53551	0.1031634	3.1423408642627
(590421)	14.5	328.58946	343.98255	91.46868	8.48701	0.0866594	5.2450273642628
(590422)	14.4	24.26517	222.62687	139.78304	11.70882	0.1267594	5.2361525642628
(590423)	15.9	89.39099	314.14675	314.54015	17.14342	0.1311510	3.2009045642628
(590424)	16.4	274.52960	101.39904	6.88704	9.46236	0.0375687	3.0790361642628
(590425)	16.7	158.51594	346.27377	251.84852	9.87464	0.0944964	3.0595808642629
(590426)	14.3	327.85900	338.34680	84.93888	15.30808	0.1030620	5.1734560642629
(590427)	16.2	233.50691	213.83536	287.40249	15.08871	0.1474623	3.1192572642629
(590428)	16.5	253.82573	41.52224	97.81303	10.91743	0.1081450	3.0484876642629
(590429)	16.3	328.81112	277.22810	94.77471	10.56257	0.1000705	3.1706466642630
(590430)	14.2	317.51494	132.54124	303.66127	7.69237	0.0667858	5.1940676642630
(590431)	16.1	138.62600	276.45104	302.58137	20.93617	0.0506687	3.2139797642630
(590432)	16.5	223.88340	325.05028	181.07772	11.35153	0.0607873	3.1366946642631
(590433)	16.8	244.58513	356.39834	127.09378	11.86998	0.1709022	3.1441431642631
(590434)	18.3	219.72426	69.59218	60.92744	5.89559	0.1208747	2.3358799642631
(590435)	14.2	306.76072	132.68834	305.33665	22.19020	0.0327317	5.3170532642632
(590436)	17.9	175.20638	63.97140	106.50078	6.56809	0.0909301	2.3536457642632
(590437)	16.5	357.22365	81.34550	300.17444	8.24220	0.0746409	3.0774160642632
(590438)	14.1	328.52634	260.38446	163.96582	22.97289	0.0730204	5.2956779642633
(590439)	17.0	146.54569	89.54651	137.35365	7.71109	0.0606769	2.3150050642633
(590440)	16.1	314.80207	113.54819	321.73380	11.18375	0.1243745	3.0501064642634
(590441)	16.2	245.91936	332.45714	139.51702	17.97938	0.1778025	3.1592935642634
(590442)	16.7	260.33346	0.23944	121.62845	11.97397	0.0292111	3.0184206642635
(590443)	16.6	265.44312	44.73695	38.36669	16.07800	0.0512516	3.1530460642635
(590444)	16.7	138.31427	106.95463	120.11711	16.58047	0.0513626	3.1749652642635
(590445)	16.8	281.85573	317.98024	140.85911	11.33196	0.0412051	3.1149774642636
(590446)	16.4	266.74676	207.04533	257.32904	10.17808	0.0399453	3.1610254642636
(590447)	18.4	102.71457	335.20064	237.95398	5.50814	0.0507404	2.4205064642636
(590448)	15.8	240.87232	218.65193	291.88539	15.55932	0.1508823	3.1182395642636
(590449)	18.7	306.63012	316.60627	93.51939	24.19778	0.0711444	1.8785412642637
(590450)	14.3	29.69161	280.54840	100.84237	14.85465	0.0586368	5.1088691642637
(590451)	16.6	311.51925	138.57893	295.39247	9.48606	0.0886693	3.0442657642637
(590452)	15.9	256.74237	206.73934	288.21489	10.74123	0.0476064	3.0480749642638
(590453)	16.1	278.87051	314.91287	160.74572	12.21888	0.0670564	3.0699903642638
(590454)	16.9	255.89922	297.85084	153.63492	14.62236	0.2536731	3.2041862642639
(590455)	16.4	338.61194	279.28630	127.67194	10.67454	0.1633092	3.0261192642639
(590456)	16.3	108.94702	84.77050	125.01965	9.79262	0.0798619	3.3519144642639
(590457)	16.7	232.31479	31.45528	110.61155	13.97362	0.1151413	3.1457270642640

(590458)	18.1	93.87998	276.49128	314.82744	6.39141	0.1572776	2.4158745642640
(590459)	18.6	106.98520	111.99474	89.11261	3.72179	0.1354116	2.4443431642640
(590460)	14.9	302.31094	326.47767	124.97549	6.13769	0.1948174	5.2484150642640
(590461)	18.0	197.74099	152.53544	339.21770	3.06603	0.1659167	2.4078339642641
(590462)	17.6	192.52951	129.57554	7.92166	3.93787	0.1444772	2.4154751642641
(590463)	16.2	207.65537	39.46376	130.95338	10.65628	0.0244405	3.1282738642642
(590464)	16.8	316.47256	18.30116	88.75767	7.82202	0.2285982	2.9787389642642
(590465)	14.4	337.93484	264.59754	160.92009	20.29923	0.0920905	5.2426725642643
(590466)	14.5	320.90194	115.50591	324.14119	15.13571	0.1580746	5.2084136642643
(590467)	16.4	91.33110	2.04187	277.26313	8.74868	0.0970863	3.1570164642643
(590468)	18.6	245.28617	310.11875	142.40975	4.91372	0.1964976	2.3548734642644
(590469)	16.3	344.27418	266.47609	134.90404	11.59529	0.0772027	3.0868799642644
(590470)	18.8	289.22574	207.22805	241.09436	2.25948	0.1813428	2.2880245642645
(590471)	18.1	155.24454	252.72399	303.32230	5.43298	0.0546425	2.3746792642645
(590472)	16.5	339.82150	260.92472	134.69070	12.10515	0.0820080	3.0983265642645
(590473)	17.7	101.18812	256.02896	319.17409	11.24414	0.1572988	2.4585242642645
(590474)	18.3	313.66886	81.38449	331.71616	4.69264	0.0971594	2.3060779642646
(590475)	18.4	167.79302	169.50795	345.27439	1.06403	0.1223135	2.4097061642646
(590476)	18.6	176.98561	80.30090	66.59992	1.54142	0.1379454	2.4059049642647
(590477)	17.1	90.05089	187.96155	73.88687	2.63759	0.0226291	3.2398001642647
(590478)	16.5	281.18275	2.66821	119.18303	11.04404	0.0355587	3.0564188642647
(590479)	16.9	291.86552	93.62252	318.33855	12.76394	0.2373683	3.1872162642647
(590480)	17.6	23.72382	108.73982	221.20915	20.21719	0.0661876	1.8927885642648
(590481)	16.7	159.71509	93.88791	113.10005	10.59618	0.0491924	3.1702231642648
(590482)	16.6	273.61278	123.29838	329.70689	9.25647	0.0670385	3.1879527642648
(590483)	14.5	351.10430	337.92151	69.81134	10.06143	0.0823396	5.2098025642649
(590484)	18.6	357.40802	217.36790	109.48213	23.43679	0.0596614	1.9162382642649
(590485)	14.7	5.75620	279.83811	130.67474	1.22721	0.0576015	5.1335597642649
(590486)	16.7	314.69149	114.94611	316.14216	15.57046	0.1034830	3.0879207642650
(590487)	18.5	139.90544	187.65220	351.18579	2.39847	0.1250797	2.4309400642650
(590488)	16.7	27.73841	23.95845	313.76138	9.29226	0.1069628	3.1696528642650
(590489)	18.1	143.67981	19.87036	146.78924	3.90903	0.1696168	2.4531524642650
(590490)	18.2	93.16290	81.54300	137.60455	2.82547	0.1617196	2.4539410642651
(590491)	18.3	340.94270	85.33823	300.21414	6.78538	0.1274272	2.3043577642651
(590492)	14.5	309.22478	313.14155	140.64435	8.08497	0.1231469	5.2838886642651
(590493)	16.5	27.57726	205.00463	142.37165	14.97874	0.1095668	3.1712294642651
(590494)	14.4	342.73475	345.37749	69.51086	17.78459	0.0966314	5.2353886642652
(590495)	18.5	230.09135	329.62298	143.68423	7.01698	0.1384988	2.3609699642652
(590496)	16.4	273.86616	149.86581	359.02701	8.23680	0.2567728	3.0572071642652
(590497)	16.8	316.93124	121.71225	312.37061	15.16509	0.1897817	3.0718016642653
(590498)	18.6	215.20129	90.50106	31.25869	1.89868	0.1368621	2.3846594642653
(590499)	17.6	82.13459	340.06843	285.84667	19.43851	0.0205524	1.9068918642653
(590500)	18.1	358.06722	63.63444	280.19343	17.42165	0.0736128	1.9116941642654
(590501)	17.4	162.61327	284.37163	234.73350	4.49534	0.1152498	2.4124037642654
(590502)	18.6	248.16371	328.55707	120.87879	2.98303	0.1708687	2.3669283642655
(590503)	18.6	162.79651	226.33536	293.61086	1.70898	0.1351898	2.3967261642655
(590504)	16.6	277.80212	255.90441	191.43259	9.69868	0.1993894	3.1374167642655
(590505)	16.7	271.00345	144.20927	327.38038	8.97288	0.0629514	3.1417362642655
(590506)	18.0	336.18496	259.65405	131.06050	5.98235	0.1682972	2.3087676642656
(590507)	18.4	75.95955	326.63996	143.50980	2.68017	0.1601973	2.6627699642656
(590508)	16.2	223.10281	279.26017	250.29126	10.22420	0.1540527	3.1462501642656
(590509)	16.8	239.07005	22.92757	103.62179	3.27911	0.0601557	3.2169338642657
(590510)	16.4	125.12804	299.86222	330.63069	8.34007	0.0543792	3.0959493642657
(590511)	16.6	113.82148	133.81184	124.72124	12.91763	0.0069797	3.1545102642657
(590512)	16.8	225.27941	358.00273	140.22938	17.37318	0.1319502	3.2004641642658
(590513)	16.8	248.43081	319.70575	180.96448	11.89982	0.0820699	3.1110450642658
(590514)	16.9	249.43881	50.54562	51.54740	12.09507	0.0871099	3.1945757642658
(590515)	16.4	228.79117	236.90521	254.40691	13.30477	0.1886264	3.1952112642658
(590516)	18.7	108.01077	127.54684	18.36444	7.83091	0.2200545	2.5552127642659
(590517)	16.8	238.82209	14.31233	122.14232	13.34884	0.0506421	3.1439032642659
(590518)	16.5	150.50055	288.59942	263.03952	15.75158	0.1555700	3.1587940642659
(590519)	16.9	144.09210	94.56091	130.22965	16.69175	0.0512883	3.1840578642659
(590520)	16.9	116.28609	335.54454	267.27930	8.05568	0.0277373	3.1856268642660
(590521)	18.8	200.78071	203.71455	299.87444	17.40329	0.0671456	1.9159483642660
(590522)	18.2	150.82353	263.51696	224.70291	0.83585	0.1376676	2.4773228642660
(590523)	16.5	335.38420	61.99663	319.81941	11.13003	0.0607576	3.2160256642660
(590524)	14.7	313.15142	177.87782	281.26372	6.65283	0.0528270	5.2432260642660
(590525)	14.3	332.28472	343.84809	98.91453	16.89612	0.0750460	5.2525044642661
(590526)	16.8	355.11800	63.41587	325.55188	11.99459	0.1515111	3.1213198642661
(590527)	16.6	285.76464	259.18607	212.08610	8.33887	0.2494157	3.0635002642661
(590528)	18.2	121.70653	81.23358	105.65283	3.37141	0.1364233	2.4650227642662
(590529)	18.2	113.15108	146.13620	65.05612	2.43999	0.1354272	2.4457561642662
(590530)	16.3	232.42217	204.89479	307.04820	17.18700	0.0921628	3.1526891642662
(590531)	15.9	237.24260	276.46204	262.55368	14.18314	0.1760694	3.0975791642663
(590532)	18.7	273.79821	262.81471	172.91448	21.65103	0.1321951	1.8933480642663
(590533)	16.8	272.49592	238.82369	241.13851	5.84992	0.1602873	3.1149366642663
(590534)	18.1	87.28553	49.46568	176.30103	5.49091	0.1453068	2.4729523642663
(590535)	16.8	318.65946	317.60800	110.31081	7.29600	0.1340377	3.0744794642664
(590536)	18.9	259.29877	24.99617	74.26388	2.47210	0.1425628	2.3281496642664
(590537)	18.7	232.99661	215.77107	254.95222	3.55523	0.1702215	2.3648750642664
(590538)	16.8	293.52900	134.81580	326.66083	13.98349	0.1759048	3.0892247642664
(590539)	18.3	276.99992	185.03507	265.62202	5.71560	0.1056525	2.3173440642665
(590540)	16.2	341.27622	207.06700	175.28674	9.67098	0.0833652	3.1716357642665
(590541)	17.4	152.89595	133.89570	49.06920	1.85566	0.1281523	2.4261196642665
(590542)	16.9	238.47668	142.60955	142.33504	4.87417	0.0758576	2.8025038642666
(590543)	16.4	306.22109	352.14004	94.45882	10.29051	0.0373626	3.0993971642667
(590544)	17.9	142.04732	85.17529	105.40288	5.58681	0.1686903	2.4262410642667
(590545)	18.4	151.62134	214.24337	327.23491	5.59412	0.0203280	2.4052751642667
(590546)	17.6	96.27870	331.84167	264.28981	8.09200	0.2312013	2.4437091642668
(590547)	16.8	81.79644	264.97933	35.12382	7.01045	0.1403803	3.1575368642668
(590548)	17.1	265.66745	304.33634	164.12601	8.88005	0.1296732	3.1763038642668
(590549)	16.5	329.60142	151.81530	280.98993	11.56776	0.0878056	3.0348879642668
(590550)	17.1	298.43947	141.57075	327.66902	7.99260	0.1078158	3.0776790642669
(590551)	15.7	78.02500	182.26777	124.51900	11.84253	0.0873737	3.2212396642669
(590552)	18.6	52.25388	288.46259	348.42205	16.65535	0.1159442	1.9636842642670
(590553)	18.3	224.18398	286.94731	166.82739	23.34579	0.0958594	1.9506920642670
(590554)	17.0	283.08560	127.13887	335.28830	12.26609	0.1672543	3.1259584642670
(590555)	19.2	288.92712	260.85331	163.60016	22.27623	0.1055201	1.8967589642671
(590556)	18.0	219.48097	12.10637	148.86877	6.83245	0.0747796	2.3506637642671
(590557)	18.0	105.59282	18.49233	171.34501	24.27207	0.0477725	1.9643286642671
(590558)	18.1	328.94710	44.39309	322.47864	17.91928	0.0996232	1.9272888642672
(590559)	16.6	180.37944	346.27378	175.09656	17.17196	0.0746360	3.3625435642672
(590560)	18.2	310.29076	84.77526	349.89662	5.89122	0.1428914	2.3192102642672
(590561)	18.4	210.38223	77.72218	50.68202	3.43130	0.1303784	2.4051787642672

(590562)	17.7	218.60117	152.79117	354.82551	18.57531	0.0369227	2.3671441642673
(590563)	18.0	322.74014	65.52202	92.52182	2.13859	0.1785137	2.8975477642673
(590564)	18.5	6.18637	344.48256	347.51720	19.12520	0.0726130	1.9486737642673
(590565)	17.9	110.45835	79.26009	152.40192	6.75115	0.0546325	2.3798797642674
(590566)	16.6	297.31676	98.16541	0.26866	25.10331	0.2371917	3.1542456642674
(590567)	16.3	256.35286	93.11847	7.79082	12.63010	0.0778037	3.2245032642674
(590568)	16.4	259.76163	355.72684	132.56565	18.82892	0.1889802	3.1472408642675
(590569)	18.8	290.94101	37.22440	351.53295	19.97249	0.0644499	1.9549118642675
(590570)	17.0	286.86752	130.40163	346.57963	9.40976	0.0449377	3.1300580642675
(590571)	16.7	36.63780	349.22062	9.10009	11.48129	0.0745811	3.1504354642675
(590572)	16.7	338.12940	85.90658	332.53564	8.60257	0.0731632	3.1198886642676
(590573)	17.8	50.11279	244.91409	3.62632	30.83162	0.2095820	2.5794247642676
(590574)	16.8	235.53115	129.02377	15.35251	9.13556	0.1690754	3.2092225642676
(590575)	16.3	284.12897	292.04894	171.53878	9.98784	0.0745343	3.1727243642676
(590576)	18.8	251.71429	127.55548	342.63854	18.37545	0.0830810	1.8996569642677
(590577)	17.7	154.02390	147.48961	47.67824	6.78367	0.0894154	2.4236061642677
(590578)	18.3	262.42396	55.53088	42.64531	20.93556	0.0374344	1.9096176642677
(590579)	16.1	111.45470	203.60292	87.10837	13.02480	0.0484489	3.0840828642677
(590580)	18.0	22.46470	358.92173	325.62683	4.17518	0.2027126	2.4432616642678
(590581)	16.3	268.20714	194.11889	299.09769	13.74542	0.2346003	3.1683595642678
(590582)	18.4	279.83624	56.77883	28.55600	22.19282	0.1753427	1.9017762642678
(590583)	15.9	264.16906	161.28724	335.01548	12.65532	0.1115841	3.1395098642679
(590584)	17.6	329.26099	187.74806	287.57242	0.62204	0.0981471	3.0212251642679
(590585)	17.0	189.00151	296.79704	12.76997	1.85515	0.0594870	2.9045634642680
(590586)	17.2	7.60045	259.57033	161.47463	9.05699	0.1221080	3.0656839642680
(590587)	18.7	297.34734	107.96360	335.33659	19.73072	0.0865677	1.8889225642680
(590588)	17.8	33.82828	316.19262	2.06116	14.41268	0.1059272	2.4343898642681
(590589)	18.4	105.87694	71.47062	112.05099	4.87354	0.1162588	2.5462275642681
(590590)	17.8	84.33554	159.37497	84.03377	7.61326	0.0869088	2.4821478642681
(590591)	17.6	133.45997	113.37529	119.85370	8.10851	0.0685248	2.4039712642681
(590592)	18.3	282.33391	73.15650	18.93687	5.05012	0.1127499	2.3487731642682
(590593)	18.5	95.09738	47.08308	151.63779	6.37339	0.1123293	2.5357271642682
(590594)	17.6	47.07925	114.84412	157.86937	13.58498	0.1043437	2.5252241642682
(590595)	16.6	29.90668	204.54246	88.35160	12.55798	0.1988773	2.5336392642683
(590596)	17.5	243.05685	288.36364	225.99782	6.58249	0.0538601	2.3197373642683
(590597)	18.6	181.03924	176.57234	1.60555	19.91615	0.0354886	1.9250593642684
(590598)	18.1	96.78138	358.55952	199.28649	4.46195	0.1579188	2.5431706642684
(590599)	16.8	286.15658	298.74099	193.30065	17.81963	0.2446777	3.1544181642685
(590600)	18.5	207.42972	280.14754	201.82397	21.32009	0.1022855	1.9558179642685
(590601)	16.5	314.58071	292.87455	123.61570	6.17774	0.1428933	3.2349572642685
(590602)	16.4	317.32344	199.72175	250.03851	11.18219	0.1103759	3.1525358642685
(590603)	18.2	298.43065	208.11351	213.05130	20.28809	0.1006599	1.9149840642686
(590604)	18.6	305.44864	46.54782	5.20505	20.84996	0.0939386	1.9230212642686
(590605)	15.9	290.98682	263.99144	233.34148	14.28187	0.1707791	3.0888259642686
(590606)	15.7	240.46811	315.21224	226.56504	25.52098	0.1477856	3.1602540642687
(590607)	16.9	121.74174	148.18871	85.59491	14.02187	0.0911059	2.4363998642687
(590608)	18.0	76.75995	74.69048	129.02994	29.05953	0.3571022	2.5978436642688
(590609)	17.3	16.31803	186.54081	143.77368	14.55260	0.1856253	2.5522820642688
(590610)	18.0	168.19294	328.16252	220.17663	6.51045	0.1260287	2.4673261642689
(590611)	18.2	154.80653	161.32875	58.35275	22.37816	0.0470324	1.9273133642689
(590612)	18.3	155.62347	310.90453	221.38707	19.42106	0.0690210	1.9619000642689
(590613)	16.7	294.10860	304.16024	212.86466	10.88213	0.0466920	3.1041683642689
(590614)	18.0	182.62525	93.14260	51.10208	22.00302	0.0692414	1.9732919642690
(590615)	18.1	34.70001	228.78537	58.63402	5.17265	0.2507846	2.5871239642690
(590616)	16.3	318.50521	85.47538	297.48584	0.77759	0.0303591	3.5071891642691
(590617)	18.3	97.11392	142.16484	70.68323	2.07901	0.1329401	2.5662558642691
(590618)	16.2	285.81986	52.16611	49.84125	27.41394	0.1750098	3.2404962642691
(590619)	18.3	95.85524	159.95348	71.31849	3.24484	0.0222371	2.5130706642691
(590620)	18.1	81.80210	39.35484	212.46732	11.01866	0.1182840	2.5298822642692
(590621)	17.8	336.76208	321.94690	59.06796	13.24902	0.1135354	2.4681763642692
(590622)	17.2	281.82088	76.29068	137.87500	12.03910	0.0683684	3.0386091642692
(590623)	17.5	344.07483	302.48838	58.85269	10.91653	0.0617368	2.5131371642692
(590624)	17.4	195.86685	34.17669	126.48981	12.58451	0.1432347	2.4536759642693
(590625)	17.8	169.27829	98.76952	49.71206	11.82343	0.1031563	2.5300012642693
(590626)	16.5	19.27009	282.51781	52.26848	13.33361	0.3086719	2.5635420642693
(590627)	18.2	63.74069	60.96601	219.51378	20.02437	0.0639588	1.9823008642694
(590628)	17.6	84.99612	188.19157	27.01227	5.74529	0.1579188	2.5824159642694
(590629)	17.3	3.54585	182.84400	173.98223	7.16531	0.2620081	2.5332900642694
(590630)	17.6	159.33611	295.66592	216.25743	15.97964	0.0688930	2.5618733642695
(590631)	17.9	104.53433	5.47195	209.79896	5.16801	0.1780066	2.5552883642695
(590632)	18.2	63.18872	98.35720	154.46264	13.01712	0.1486363	2.5688680642695
(590633)	18.5	47.44782	246.50143	48.04713	1.22925	0.1425752	2.5235690642696
(590634)	17.2	37.57496	91.62202	194.17496	26.67851	0.3480355	2.6153074642696
(590635)	17.9	54.53086	117.17342	139.86510	13.06755	0.2271606	2.6011319642696
(590636)	17.9	359.78679	214.05213	135.75385	24.45074	0.0238036	1.9696568642697
(590637)	17.8	64.23659	62.56824	194.19593	12.83415	0.1708259	2.5758066642697
(590638)	17.3	147.83366	78.64888	104.31038	7.10559	0.0668864	2.5367556642697
(590639)	18.0	14.73261	131.34263	188.37845	13.93755	0.2351509	2.5852427642698
(590640)	18.3	68.99680	156.80163	109.69080	2.87990	0.1436106	2.5473048642698
(590641)	18.0	12.57828	236.25300	78.87897	4.41184	0.2027083	2.5716039642698
(590642)	18.4	71.10067	62.22038	195.87027	11.88708	0.1349109	2.5393353642699
(590643)	18.0	352.03122	156.67583	210.74018	5.19699	0.1644036	2.4855498642699
(590644)	17.0	88.53383	312.83432	263.70871	16.09703	0.2180980	2.5654871642699
(590645)	17.0	45.83236	122.23525	186.91642	15.62851	0.2006539	2.5481191642700
(590646)	17.5	351.16125	229.55468	118.17028	10.64061	0.2227260	2.5897564642700
(590647)	17.5	123.78997	51.54245	134.77743	7.02246	0.0457517	2.5919827642700
(590648)	17.0	318.62695	264.74418	55.80978	12.03418	0.2086667	2.6913656642701
(590649)	17.5	20.00938	95.25046	222.48548	11.45889	0.3126835	2.6162101642701
(590650)	17.7	23.98035	62.82450	271.83948	3.07167	0.2528134	2.5560079642701
(590651)	16.8	88.15092	17.14551	238.42162	13.90954	0.0522286	2.5863841642702
(590652)	17.3	54.52967	43.46850	228.44342	11.16432	0.1692744	2.6190464642702
(590653)	17.5	37.53747	165.05460	126.51263	12.82157	0.1910564	2.5898987642703
(590654)	18.3	46.17463	52.28095	236.47303	8.77479	0.1921783	2.5780659642703
(590655)	18.2	159.17959	164.68932	128.37411	3.82313	0.2322022	2.3568696642703
(590656)	17.6	357.83389	152.35526	193.03502	8.30221	0.1787275	2.5670657642703
(590657)	18.1	12.61559	154.22718	123.57648	11.93117	0.1788892	2.6731101642704
(590658)	17.7	56.01375	98.44051	166.48792	14.55946	0.0895795	2.5842002642704
(590659)	16.5	7.74444	241.64661	99.78746	4.82790	0.2113835	2.5688545642704
(590660)	17.4	66.26644	11.71703	266.86369	6.44164	0.1651741	2.5934460642705
(590661)	16.6	84.62299	306.86719	294.33379	17.00789	0.2436028	2.6020896642705
(590662)	17.3	29.11399	186.36997	139.70836	9.62466	0.2607304	2.6194802642706
(590663)	16.7	260.27299	157.07710	273.28029	20.77824	0.0623465	2.7213475642706
(590664)	17.2	124.40255	49.84203	178.68190	14.88339	0.0936338	2.5404411642706
(590665)	17.2	37.11524	108.75752	167.94784	10.39531	0.3514501	2.6621930642707

(590666)	16.2	63.43543	21.86654	246.40237	12.44213	0.1325257	2.6518066642707
(590667)	17.4	44.21050	28.59678	237.65194	18.01775	0.2474450	2.6613786642708
(590668)	17.6	76.30702	244.49585	8.08975	4.71723	0.2861951	2.6075080642708
(590669)	17.5	30.78886	343.98035	323.00802	12.41479	0.1755897	2.6303543642709
(590670)	17.7	27.28236	135.19746	174.44105	14.51547	0.0963366	2.6752713642709
(590671)	17.6	298.26555	118.58288	294.91468	3.73738	0.1081147	2.7071062642709
(590672)	17.4	167.21707	107.74892	320.34775	4.63863	0.1057653	3.0493346642710
(590673)	16.7	47.37434	26.03271	256.24597	12.48241	0.1792614	2.6575204642710
(590674)	17.4	21.19132	65.71728	270.65976	4.11586	0.2879646	2.6361593642710
(590675)	16.9	55.15240	144.13322	135.92149	14.55575	0.2531473	2.6353435642711
(590676)	17.2	38.98060	31.66989	291.33547	3.50261	0.1145947	2.6156261642711
(590677)	17.0	106.98440	317.03338	269.44394	6.08203	0.1440634	2.6458098642712
(590678)	17.4	39.63584	62.68141	253.98285	8.07331	0.1430197	2.6271274642712
(590679)	17.8	355.93894	164.63334	181.22756	11.19798	0.0756559	2.7063612642712
(590680)	17.5	69.73715	307.83269	299.37790	7.10148	0.1687219	2.7295850642713
(590681)	17.7	4.43829	131.78414	209.10492	12.76133	0.2050231	2.6889668642713
(590682)	16.6	54.56518	287.53886	287.59193	12.48556	0.1422488	2.7927745642713
(590683)	16.7	49.27267	143.72120	139.03380	14.10193	0.2551984	2.6414657642714
(590684)	16.0	70.51502	314.81484	327.63612	31.67788	0.1905853	2.6173312642714
(590685)	17.3	289.37816	71.78733	322.56098	6.18565	0.0505497	2.7757367642715
(590686)	17.6	315.66980	91.47167	320.89686	4.92967	0.0592533	2.6684720642715
(590687)	17.4	334.90921	171.01405	207.60940	7.88386	0.1319249	2.6961629642715
(590688)	17.6	303.49019	94.06618	328.10361	7.51110	0.1393487	2.7000883642716
(590689)	16.8	11.94454	222.10476	112.14065	8.45180	0.2879751	2.6653310642716
(590690)	16.7	39.76205	192.02798	108.07433	15.11327	0.2376354	2.6506216642716
(590691)	17.4	40.62009	170.37283	145.29937	11.21026	0.1644903	2.6263629642717
(590692)	16.5	42.37024	188.52465	107.85364	12.95980	0.1760590	2.6686152642717
(590693)	15.9	165.82823	284.12614	261.45679	13.65360	0.0977248	2.8720534642718
(590694)	17.6	274.39384	256.06429	197.93529	21.26655	0.0941488	2.6779212642718
(590695)	18.0	255.13802	350.33737	94.91615	3.01643	0.0439012	2.6736214642718
(590696)	17.3	326.50544	247.52533	134.49190	11.74085	0.1850604	2.6872801642719
(590697)	17.7	27.03330	120.62611	181.16899	6.20017	0.1238163	2.7260590642719
(590698)	17.6	275.03560	130.26719	359.13996	8.25543	0.0936668	2.5275873642719
(590699)	17.6	21.85446	165.02324	143.08290	3.40900	0.0969629	2.6894622642719
(590700)	17.3	24.62272	149.60492	156.36101	15.01869	0.1954049	2.7099274642720
(590701)	18.5	78.12875	273.84229	154.69301	3.05058	0.1621603	2.3876461642720
(590702)	16.9	335.42816	122.04364	292.12982	8.74969	0.0844330	2.6372297642720
(590703)	16.9	27.21115	309.23624	351.92577	16.52559	0.3872446	2.6841460642720
(590704)	17.3	22.41881	354.60127	339.03361	7.65444	0.1305010	2.7036926642721
(590705)	17.3	337.03102	204.30867	187.58934	10.25112	0.2945569	2.7024226642721
(590706)	16.6	5.82686	53.02811	284.84415	14.75205	0.2220830	2.7027451642721
(590707)	16.4	65.36464	2.30893	297.16072	10.83414	0.1712449	2.6579465642722
(590708)	16.4	299.15243	94.40506	337.10376	9.17379	0.1474554	2.6819432642722
(590709)	16.2	21.69816	155.79608	156.86821	13.94918	0.2211612	2.7339186642723
(590710)	16.8	5.02848	231.96155	109.06486	4.54443	0.1838193	2.6919853642723
(590711)	17.4	20.11247	185.46881	151.85230	14.16686	0.1958602	2.6625611642724
(590712)	17.5	31.03378	352.76333	322.74981	3.77653	0.1378020	2.6758543642724
(590713)	18.1	8.15386	79.36704	250.36485	1.70954	0.1868322	2.7023148642724
(590714)	17.2	22.25916	63.85399	254.93805	11.93184	0.2745902	2.6706583642725
(590715)	16.6	337.45750	81.75640	336.22026	12.45029	0.1666740	2.6547959642725
(590716)	17.6	22.78601	113.00788	197.16710	7.11555	0.1587704	2.6701909642726
(590717)	16.8	8.62340	23.63026	309.80457	10.98933	0.2097592	2.6912577642726
(590718)	17.1	340.17614	50.97066	324.84632	4.91317	0.0748938	2.6834028642726
(590719)	16.9	322.36219	205.25130	185.85612	25.59135	0.1272173	2.7308658642726
(590720)	16.9	149.15725	195.23896	13.32329	13.64896	0.0748926	2.6991407642727
(590721)	16.0	281.66661	154.81432	292.14992	12.81994	0.1513541	2.7094425642727
(590722)	18.2	31.11711	185.78536	191.05544	2.08813	0.2379266	2.5936957642728
(590723)	16.6	318.56120	30.41592	17.57627	5.03969	0.1150118	2.7192699642728
(590724)	17.4	332.95542	86.16281	291.52149	4.76844	0.0743037	2.6959946642728
(590725)	17.7	24.57278	126.12649	180.47967	13.56307	0.1863167	2.7159750642729
(590726)	17.7	45.59981	110.96913	181.93283	11.59349	0.1491176	2.6998192642729
(590727)	18.7	179.38815	169.87479	168.36938	1.37486	0.2082363	2.3389816642729
(590728)	17.4	278.72698	264.45822	181.76444	21.19216	0.1036989	2.7071150642730
(590729)	17.3	0.31295	232.76116	134.90742	2.36247	0.1110474	2.6746012642730
(590730)	17.3	347.10927	62.26396	300.40620	4.17524	0.1037396	2.7073234642730
(590731)	17.7	297.64895	154.12988	243.00130	5.38609	0.0637834	2.7743387642730
(590732)	17.5	244.38396	326.44037	109.88784	2.93254	0.0465639	2.8057049642731
(590733)	17.6	341.23350	73.50504	303.78516	5.06799	0.0340119	2.7231115642731
(590734)	17.7	42.00734	262.83606	22.27551	8.55645	0.2024026	2.7586754642731
(590735)	17.5	172.15746	317.14693	197.03540	8.82074	0.0916594	2.8081533642732
(590736)	18.3	187.53178	235.12726	269.70200	18.76771	0.1113062	1.7308762642732
(590737)	16.6	11.77129	312.59804	7.29240	12.76131	0.0754291	2.7654416642732
(590738)	18.0	341.45340	43.48447	7.65644	11.48050	0.1716643	2.6549970642733
(590739)	17.7	20.65763	287.66595	26.09464	5.51708	0.1273584	2.7530845642733
(590740)	17.7	133.32147	281.01409	268.96642	4.74396	0.0242223	2.8181601642733
(590741)	17.7	237.69120	233.46270	233.01215	7.33792	0.1482495	2.8077476642734
(590742)	16.5	18.89816	68.01470	282.53951	5.39469	0.0681139	2.7320075642734
(590743)	16.9	27.20379	144.74102	211.26999	28.30591	0.2228084	2.6665635642734
(590744)	16.9	32.58176	170.97701	142.07311	5.52898	0.1056094	2.7215380642735
(590745)	17.3	1.18173	103.63137	240.11905	12.93855	0.2681813	2.7119869642735
(590746)	17.6	314.87046	112.72394	335.41176	10.33083	0.1568541	2.6515266642736
(590747)	17.2	41.67319	56.37686	245.90140	5.48440	0.0235942	2.7912357642736
(590748)	17.6	274.22482	149.52094	329.13930	6.43017	0.2020268	2.6794738642736
(590749)	17.5	274.58915	93.54711	323.48738	3.31645	0.0594862	2.7985322642737
(590750)	17.3	265.01730	103.13516	0.50440	10.29781	0.1180986	2.7187161642737
(590751)	17.7	20.42465	348.01290	6.48156	6.06472	0.2215666	2.6567882642737
(590752)	17.4	27.89663	164.52255	157.84206	4.03452	0.0998058	2.7069248642737
(590753)	19.3	279.54437	41.47792	2.01260	2.24407	0.0929716	2.1219982642738
(590754)	17.8	23.85777	171.74591	150.41145	4.51494	0.1007800	2.7182466642738
(590755)	17.5	347.65422	317.01701	31.34554	8.08865	0.0853002	2.7615854642738
(590756)	16.5	122.12801	34.21773	183.13248	13.85946	0.1334058	2.7456829642738
(590757)	17.6	275.30473	257.69468	183.55583	12.90778	0.1866890	2.7723297642739
(590758)	17.0	199.68371	184.48797	347.56138	13.02732	0.1702566	2.7138684642739
(590759)	17.3	259.88149	178.58658	273.54494	2.96254	0.0645751	2.7645084642740
(590760)	17.6	59.27339	29.62502	256.80197	3.94683	0.1358184	2.7188399642740
(590761)	16.8	132.18206	227.64681	336.96382	6.96763	0.1613096	2.7907488642740
(590762)	17.5	314.69383	149.20624	244.90039	8.71979	0.0428465	2.7617027642741
(590763)	16.7	22.58758	331.43116	0.89695	11.70669	0.1090250	2.7167501642741
(590764)	16.7	354.15588	45.03787	304.43352	14.43011	0.1951378	2.7359038642741
(590765)	17.4	349.84869	173.07105	181.67360	9.44762	0.1999591	2.7312109642742
(590766)	17.1	352.52776	229.05834	168.31861	13.03409	0.1715006	2.6655458642742
(590767)	16.8	299.09834	33.07255	22.50559	5.26802	0.0251808	2.7070779642742
(590768)	17.3	7.56047	194.23112	120.90365	5.38486	0.0613032	2.7843389642743
(590769)	17.0	349.71011	206.98979	158.46563	6.49311	0.0383142	2.7123878642743

(590770)	17.5	2.75500	235.48870	130.55752	6.64888	0.2575711	2.6987547642743
(590771)	17.4	359.42213	261.45452	104.30774	12.67648	0.1877882	2.6970307642744
(590772)	17.8	302.00356	181.08617	245.81109	8.72131	0.1190959	2.7206616642744
(590773)	17.3	11.07396	67.29010	273.17788	4.07051	0.1310743	2.7229389642744
(590774)	17.5	4.33463	214.19194	120.79464	7.08101	0.0580708	2.7474222642745
(590775)	17.4	16.94968	284.05066	33.57358	6.14509	0.0407784	2.7689872642745
(590776)	17.8	309.40233	279.17501	114.82152	1.69531	0.0762377	2.7732467642745
(590777)	17.2	34.24137	236.29589	45.58148	2.71696	0.0243138	2.8378113642746
(590778)	17.1	307.34411	212.59316	204.09465	4.45823	0.1037137	2.7271085642746
(590779)	16.9	25.14251	238.57957	113.32525	6.64186	0.0935559	2.6846376642747
(590780)	17.7	109.73530	260.74386	317.10507	5.56461	0.0281006	2.8021307642747
(590781)	17.8	326.27174	159.59787	220.15460	15.38332	0.1029216	2.7555993642747
(590782)	17.3	46.25245	307.66379	329.46656	7.02620	0.2153309	2.7498836642747
(590783)	17.4	76.38830	59.44001	199.09230	7.73641	0.0887373	2.7565651642748
(590784)	17.5	52.71679	239.60924	163.73756	5.55894	0.1683478	2.5265509642748
(590785)	17.1	98.98598	7.37873	226.65121	13.01462	0.1249721	2.7667089642749
(590786)	17.4	351.67606	165.46551	190.97167	4.12501	0.0814468	2.7832562642749
(590787)	16.9	5.96445	57.21660	292.00226	5.08014	0.0160884	2.7791923642749
(590788)	17.8	62.91488	110.45806	166.76612	5.08118	0.0550264	2.7431920642750
(590789)	18.0	50.10373	135.61226	153.80016	4.42042	0.0817876	2.7364984642750
(590790)	17.6	358.93332	227.35176	121.78372	4.43468	0.1083882	2.7268080642750
(590791)	17.7	93.71423	344.07031	277.94547	2.82887	0.1488820	2.6908838642751
(590792)	14.4	278.32532	2.17744	12.48181	6.21841	0.0148396	5.1911640642751
(590793)	16.7	339.03663	313.13326	85.06852	8.34003	0.1780036	2.6888396642751
(590794)	17.2	35.73381	44.87068	266.91311	13.11327	0.2415514	2.6920056642752
(590795)	16.7	339.15437	309.08981	47.33340	29.46739	0.2649899	2.7756470642752
(590796)	17.4	316.49389	233.14921	152.60267	6.45667	0.0547076	2.7739488642752
(590797)	17.8	334.74481	278.22198	88.75155	3.52622	0.1395994	2.7638945642752
(590798)	18.0	121.92937	121.45842	173.75939	6.52277	0.2502211	2.5219426642753
(590799)	17.2	348.92162	99.00391	258.57434	5.65903	0.1319417	2.7711730642753
(590800)	17.1	159.21185	277.16797	284.39231	6.68401	0.0795946	2.7377162642753
(590801)	17.6	328.94861	193.71379	201.28304	8.11074	0.2257908	2.7590872642754
(590802)	17.4	199.70531	334.33418	189.59771	11.27908	0.0288347	2.7105657642754
(590803)	17.2	266.21811	204.21388	275.38710	12.18857	0.1578785	2.6512360642754
(590804)	17.1	175.20183	289.18904	221.09640	9.53146	0.1107263	2.7421276642754
(590805)	17.1	137.87584	94.19221	113.08736	5.99114	0.0541743	2.7324776642755
(590806)	17.7	296.14111	270.68084	162.95867	5.10913	0.1359421	2.7129176642755
(590807)	17.0	45.50655	59.60060	227.41281	12.50743	0.1678847	2.7527086642756
(590808)	17.9	322.18719	70.82774	345.98388	4.17135	0.1383119	2.7009118642756
(590809)	16.8	28.35271	13.20069	297.21461	13.62864	0.1754411	2.6970447642756
(590810)	17.5	302.07165	228.22848	166.86469	4.15707	0.0750256	2.7811165642757
(590811)	13.2	255.58576	22.47028	112.06806	19.72260	0.1556166	5.2236792642757
(590812)	17.3	22.33779	248.44772	122.64566	6.85380	0.0999449	2.6485881642758
(590813)	17.3	356.98106	36.39684	342.55596	11.67170	0.1175706	2.6847252642758
(590814)	16.1	30.41155	60.37148	283.41379	11.23273	0.0507269	2.7174904642758
(590815)	17.2	351.39201	335.15671	45.08938	14.22465	0.1334899	2.7306429642759
(590816)	17.1	355.07695	242.56661	128.85025	5.61968	0.1597296	2.7001828642759
(590817)	16.4	326.95216	261.83483	127.76621	12.74266	0.1557880	2.7322742642759
(590818)	17.0	339.00286	15.57836	41.46474	15.41002	0.0218651	2.6557763642760
(590819)	17.4	350.27903	17.73616	352.23235	5.45423	0.0467019	2.7423854642760
(590820)	17.6	339.96228	236.72238	176.46411	11.53675	0.2689674	2.6813045642760
(590821)	16.9	297.61905	298.38758	64.46045	11.21735	0.0502786	2.8838580642761
(590822)	17.9	245.89181	126.68511	334.52118	7.20488	0.1817118	2.7902157642761
(590823)	17.6	254.52183	293.22545	122.02392	7.25537	0.0538867	2.8504867642761
(590824)	18.0	48.84069	75.75379	229.67989	11.06866	0.3127310	2.6658471642761
(590825)	17.4	30.17651	189.46861	131.50441	10.53897	0.2147282	2.6941019642762
(590826)	17.7	237.47036	90.85568	17.64935	4.63872	0.0705867	2.7822393642762
(590827)	17.9	2.63334	65.08389	248.66169	1.03814	0.0534949	2.8471378642762
(590828)	18.0	62.18996	320.49543	316.25412	3.13346	0.1223782	2.7256772642763
(590829)	17.7	28.63990	297.29746	8.38419	4.30144	0.0622453	2.7588151642763
(590830)	17.6	347.06922	210.29967	104.80106	7.48400	0.1412061	2.8673439642763
(590831)	17.4	265.10113	325.74480	160.00602	4.41372	0.1150670	2.6813108642763
(590832)	17.9	25.80131	288.10671	105.81503	4.42891	0.1326377	2.5861719642764
(590833)	17.7	214.54540	44.83238	91.75315	1.41478	0.0152824	2.7608431642764
(590834)	17.4	177.58663	39.00222	142.90166	5.55387	0.0572185	2.7397050642764
(590835)	16.9	343.59093	14.07802	8.44282	13.82932	0.1623206	2.7168980642764
(590836)	17.6	46.83075	101.94786	191.74897	13.57635	0.0680452	2.7648687642765
(590837)	17.2	132.68888	297.08940	283.39023	6.39645	0.0532957	2.7495392642765
(590838)	17.2	27.09391	29.89575	276.14698	7.43046	0.1447969	2.7748987642765
(590839)	16.9	241.75532	66.67936	44.04602	5.02936	0.0209229	2.7971938642766
(590840)	17.2	350.14268	74.49445	293.28013	5.96503	0.0710127	2.7562924642766
(590841)	16.5	62.71305	80.28371	226.59747	14.35717	0.1552655	2.6850705642766
(590842)	16.7	251.56975	352.76705	2.42906	9.62020	0.1135931	3.0932681642767
(590843)	17.6	286.53213	232.08019	205.14371	3.02755	0.0705475	2.7766352642767
(590844)	16.4	51.13763	21.87791	303.93771	12.36185	0.1563519	2.6527171642767
(590845)	17.4	14.14872	347.35512	348.33545	3.69252	0.1101418	2.7654317642768
(590846)	17.2	18.89436	137.25462	219.16149	4.13909	0.1216731	2.7042124642768
(590847)	17.9	358.71994	260.88105	172.06188	2.29711	0.1165130	2.6161573642768
(590848)	17.4	252.02733	237.36283	265.33874	10.45485	0.0442802	2.7191604642769
(590849)	17.4	274.02687	152.68334	257.07629	10.67188	0.0714986	2.9053580642769
(590850)	17.6	299.40015	182.35467	245.91929	2.95961	0.0826706	2.7693794642769
(590851)	16.9	168.15420	310.14301	233.69668	8.23101	0.0576430	2.7574297642769
(590852)	17.7	282.63784	306.21850	101.72811	3.29142	0.0625119	2.8621291642770
(590853)	18.2	111.26162	28.34386	6.40499	1.23527	0.1809812	2.4216434642770
(590854)	18.6	26.39958	355.80698	299.23699	0.51024	0.1505196	2.1086267642770
(590855)	16.6	156.49687	293.49610	235.15249	13.89792	0.0938663	2.8812948642771
(590856)	17.9	327.00423	37.26993	7.64701	8.54387	0.1553271	2.7329212642771
(590857)	17.5	274.16622	312.43515	130.90821	3.50567	0.1580041	2.8134671642771
(590858)	16.8	288.09163	158.21526	246.21262	15.54320	0.0152986	2.8636450642772
(590859)	17.1	355.92478	268.79139	34.29541	10.64676	0.1029752	2.9434610642772
(590860)	16.9	22.41734	27.95090	314.66251	10.30804	0.1981086	2.6952293642772
(590861)	16.6	14.37869	227.70075	119.19002	12.39697	0.2950210	2.6824738642773
(590862)	17.0	2.74114	176.77709	154.00801	14.49835	0.2760125	2.7524423642773
(590863)	17.2	31.83432	203.58487	112.04687	6.41408	0.0151129	2.7876186642773
(590864)	16.7	189.00651	280.89783	237.64153	10.89650	0.1203158	2.8390646642774
(590865)	16.4	29.07719	259.71780	96.54031	8.25796	0.1320874	2.6684523642774
(590866)	17.1	167.09504	331.30158	212.14094	5.72786	0.0043964	2.7621958642775
(590867)	16.5	75.06243	312.30836	355.22140	5.11128	0.0502518	2.7105365642775
(590868)	19.1	311.27247	3.60391	8.92369	1.57211	0.1664565	2.1290456642776
(590869)	17.7	57.27110	266.75794	350.63275	1.59897	0.0708376	2.8411478642776
(590870)	17.1	296.28050	25.17972	64.33333	13.60504	0.0504376	2.6978612642776
(590871)	17.1	196.91335	224.90195	251.79372	11.45282	0.0439773	2.8947022642777
(590872)	17.9	145.89384	72.56672	41.26849	22.88504	0.2664929	2.2613995642777
(590873)	17.8	314.58720	250.47227	138.95034	6.59771	0.0772289	2.7969450642777

(590874)	17.3	333.37948	180.49228	179.54502	6.07853	0.0441180	2.8128638642777
(590875)	17.3	162.47117	155.91199	52.11245	13.70110	0.0074176	2.7547443642778
(590876)	17.6	22.68816	110.98872	194.83447	8.72917	0.2145768	2.7624116642778
(590877)	17.1	21.67435	300.55618	46.09955	7.62257	0.0668147	2.7585771642778
(590878)	16.8	47.61764	58.47681	259.80040	5.36992	0.0464280	2.7515746642778
(590879)	17.5	86.49922	184.85388	61.78244	10.36176	0.0812669	2.8165745642779
(590880)	16.8	157.28598	80.86669	85.10661	6.39750	0.0893386	2.9453679642779
(590881)	17.9	338.00673	151.72431	264.85308	3.70241	0.1639873	2.6731494642779
(590882)	16.9	265.14771	28.32865	84.14159	10.82543	0.1507040	2.7809157642779
(590883)	19.0	136.25374	318.09175	214.59041	2.95376	0.0432596	2.1522115642780
(590884)	16.8	37.76917	190.18014	145.74380	5.02713	0.0783827	2.7084546642780
(590885)	17.3	211.29691	329.21766	180.27415	4.11920	0.0123946	2.7551920642781
(590886)	17.6	4.99606	316.85256	66.93893	5.74700	0.1777342	2.6697610642781
(590887)	16.5	106.04249	237.06617	86.91094	10.53321	0.2159299	2.5899993642781
(590888)	16.7	20.06246	294.49149	49.88009	5.79878	0.1767695	2.7238143642782
(590889)	17.5	30.07748	221.72545	85.29761	3.23362	0.0556386	2.8337154642783
(590890)	17.3	277.83074	9.45311	75.00663	5.47886	0.0415955	2.7899036642783
(590891)	17.8	40.52770	70.44866	232.65716	3.24587	0.2021918	2.7488775642783
(590892)	17.6	37.38791	252.45218	51.20693	4.56606	0.0840285	2.7962360642783
(590893)	17.1	72.93816	215.22410	78.03608	6.05265	0.1442669	2.7292243642784
(590894)	16.6	26.89354	93.17929	219.52093	16.45230	0.1032444	2.8074436642784
(590895)	16.9	288.70196	351.09792	98.61369	5.26054	0.0693551	2.7760581642784
(590896)	19.2	286.21704	331.12178	64.61359	2.11489	0.1060911	2.1378564642785
(590897)	17.4	225.70110	111.30683	26.33294	4.16097	0.0431201	2.7728292642785
(590898)	16.8	335.75703	284.70221	100.38345	9.73159	0.1570357	2.7660447642785
(590899)	17.2	39.24046	248.70177	59.14459	9.52942	0.2977081	2.7400502642786
(590900)	17.3	241.85041	44.25987	44.86611	6.53417	0.0516377	2.9071819642786
(590901)	18.6	55.76002	168.42315	208.59277	1.27015	0.2093074	2.5714251642786
(590902)	17.3	19.13200	263.23007	66.29595	13.27719	0.1796719	2.7601504642786
(590903)	17.4	236.88853	68.45194	45.62063	9.27109	0.1231864	2.8083297642787
(590904)	17.4	359.96446	314.73407	60.20039	7.06712	0.0690416	2.7577219642787
(590905)	17.3	305.16567	155.94884	272.21290	3.23175	0.0471553	2.7851645642787
(590906)	17.6	333.79238	285.76809	185.91092	11.04819	0.1415916	2.5903519642788
(590907)	17.5	304.27003	358.66524	90.00368	4.63055	0.1673536	2.7418648642788
(590908)	16.9	266.70046	184.69544	287.83396	11.58851	0.1268267	2.8046285642788
(590909)	17.5	8.90078	39.22556	111.88590	8.10209	0.0808359	2.4573935642788
(590910)	16.9	355.81982	309.92437	56.12001	13.87495	0.1910212	2.7503867642789
(590911)	17.1	6.77350	98.20542	237.76517	23.52806	0.1742398	2.7836913642789
(590912)	16.7	215.59173	3.96067	70.93060	10.61127	0.0843793	3.0467144642789
(590913)	16.9	81.97964	249.94062	22.30607	2.12785	0.0502100	2.8295168642790
(590914)	17.2	24.78530	68.49101	243.59024	11.94085	0.1233685	2.8334239642790
(590915)	18.5	173.67790	201.35239	285.94376	2.44524	0.0524221	2.2062395642790
(590916)	17.1	359.70403	291.31053	81.25602	5.72967	0.0797422	2.7827783642791
(590917)	17.1	272.46800	206.25912	250.22558	4.99224	0.0459004	2.8159964642791
(590918)	18.7	187.13488	253.96785	244.37693	3.73599	0.0555804	2.1708640642791
(590919)	18.9	227.40806	44.88527	65.22288	6.96620	0.0544793	2.1502752642792
(590920)	17.5	9.46567	159.37689	212.05067	3.77642	0.1552665	2.6891256642792
(590921)	17.6	285.45786	255.49850	149.36272	6.60216	0.0813327	2.9113564642792
(590922)	17.2	276.51885	281.74453	114.67986	7.13921	0.0966052	2.9419170642792
(590923)	18.1	95.02556	104.65452	223.37230	6.52867	0.2086329	2.5874083642793
(590924)	18.2	250.38762	159.72657	121.50863	4.03891	0.1143081	2.3902360642793
(590925)	17.1	326.08155	327.37874	103.07008	15.18240	0.1607352	2.7720024642793
(590926)	17.4	270.43404	185.21595	277.73513	8.28250	0.1104533	2.8096092642793
(590927)	16.9	306.18728	18.09003	34.59407	17.09051	0.1809726	2.7726441642794
(590928)	16.4	213.67597	271.94126	216.98722	10.41247	0.0441461	2.9159157642794
(590929)	16.8	33.64788	269.09036	45.34955	5.27326	0.1121838	2.7760295642794
(590930)	17.1	303.24586	255.53058	148.54156	2.57421	0.0633864	2.8618536642795
(590931)	17.0	327.94160	317.70714	101.03367	6.60724	0.1144476	2.8154286642795
(590932)	17.3	292.73536	218.40276	259.60822	8.18552	0.1462325	2.7110965642795
(590933)	17.1	231.69096	288.23919	172.79507	1.75114	0.0681423	2.9398057642796
(590934)	17.4	11.97295	60.20080	277.31371	8.61413	0.3241762	2.7603844642796
(590935)	16.1	351.98612	237.59973	121.33627	16.06219	0.1640082	2.8404684642796
(590936)	17.3	354.32598	269.17894	109.32821	9.89274	0.0732102	2.7893987642797
(590937)	17.1	195.14818	307.94376	258.19926	12.91144	0.1633974	2.7550897642797
(590938)	16.9	259.50161	69.02086	327.47708	8.78180	0.0564737	3.1069356642797
(590939)	16.8	188.95470	0.52647	118.56038	11.58074	0.0797777	3.1866700642797
(590940)	18.8	190.75643	101.09463	24.66930	3.98629	0.0387733	2.2081757642798
(590941)	16.4	330.43794	281.49429	101.27865	13.51689	0.0006709	2.8715711642798
(590942)	13.9	244.46446	229.14464	266.51031	15.30538	0.0589797	5.1760595642798
(590943)	17.1	352.01927	323.58054	81.83346	10.10282	0.2049414	2.7030673642799
(590944)	14.3	254.06540	155.42232	317.89116	26.59428	0.0444676	5.2198546642799
(590945)	16.6	218.49473	175.58465	346.46362	9.51685	0.1421242	3.0701677642799
(590946)	17.3	274.49741	6.47278	60.65184	7.18837	0.1133911	2.9702291642800
(590947)	16.8	100.66874	228.46448	353.72156	9.70380	0.0762585	3.0753638642800
(590948)	17.0	285.19529	38.83707	40.46223	9.12799	0.1902660	2.8838966642800
(590949)	16.9	343.24223	3.88982	328.02479	8.66514	0.0805025	3.0339339642800
(590950)	16.2	143.69627	220.62515	342.54535	11.12454	0.0943016	2.9867627642801
(590951)	16.9	318.81344	305.01225	78.75644	7.27360	0.1314048	2.9197166642801
(590952)	14.0	341.50217	305.41930	87.20865	8.81469	0.0115692	5.1853460642801
(590953)	16.7	184.88954	15.89779	92.08918	10.96542	0.1926438	3.1177237642802
(590954)	16.5	163.76625	229.16601	313.26302	14.47800	0.1472260	3.0639979642802
(590955)	16.8	150.43999	214.77798	315.79458	7.48665	0.0562567	3.1347976642802
(590956)	17.0	324.07048	295.99305	85.54009	10.45347	0.0830715	2.9643844642803
(590957)	18.5	238.28982	145.55668	296.53714	5.22866	0.1109091	2.2062938642803
(590958)	13.7	256.10463	171.50818	326.79799	16.96760	0.1258951	5.1268424642803
(590959)	14.4	321.78574	349.31761	85.40604	9.21442	0.0719296	5.2452880642804
(590960)	17.1	356.11597	31.26062	323.14652	7.90555	0.0367017	2.9796074642804
(590961)	16.1	223.11311	186.78480	300.30799	9.18710	0.0536742	2.9829231642804
(590962)	16.9	302.15548	348.27372	82.27451	5.95241	0.1337520	2.8122475642805
(590963)	13.3	289.94911	305.35124	149.19204	32.59160	0.0745572	5.2274927642805
(590964)	17.2	321.17548	18.99061	111.18049	14.58355	0.0996480	2.6689481642806
(590965)	17.2	333.71687	288.62852	127.98339	4.64283	0.1952594	2.8124755642806
(590966)	16.1	65.94930	8.23626	272.36945	15.00152	0.0931381	2.8889999642806
(590967)	16.1	274.41944	82.65496	321.55844	15.97304	0.0011304	3.1182293642807
(590968)	16.4	352.07404	315.34568	74.69545	7.75908	0.0654489	2.8625391642807
(590969)	13.6	235.61428	200.37145	322.66316	15.26323	0.0891442	5.2277851642808
(590970)	14.3	255.71991	192.88340	297.64435	25.21010	0.0396981	5.1726951642808
(590971)	14.5	298.89458	171.39404	273.34704	3.48330	0.0595623	5.1077753642808
(590972)	13.7	280.19270	340.48567	131.42052	30.23654	0.0592442	5.1409309642809
(590973)	17.4	342.10431	145.54364	330.70614	8.14981	0.1111977	2.6885228642809
(590974)	15.5	74.09466	169.75791	99.03297	11.62417	0.0964040	3.0508368642809
(590975)	14.1	222.97575	60.06152	109.29853	12.12787	0.1354198	5.2380256642810
(590976)	18.0	71.20381	105.27519	117.75087	23.91517	0.2676768	2.3320831642810
(590977)	14.0	295.32526	279.40034	169.14237	7.89615	0.0911641	5.1243733642811

(590978)	14.0	312.47507	304.99448	127.16970	16.97407	0.0649735	5.1177987642811
(590979)	13.5	339.39851	299.07171	106.15684	20.02776	0.0737636	5.1210980642812
(590980)	14.0	321.18217	282.16569	143.18130	15.25812	0.1079114	5.1533195642812
(590981)	14.5	256.06199	155.65967	330.59902	2.86260	0.0829033	5.2409423642812
(590982)	14.1	324.22342	303.42695	133.73366	11.14028	0.0923056	5.1053893642813
(590983)	14.6	350.71430	39.33214	343.01506	8.72132	0.0751930	5.1129064642813
(590984)	19.4	274.65597	76.38304	339.35168	3.42739	0.1800271	2.1795032642813
(590985)	14.6	304.77250	306.60041	131.70288	14.26658	0.0553148	5.1727582642814
(590986)	16.3	94.38376	61.77716	184.27316	13.12538	0.1963535	3.0785823642814
(590987)	14.3	242.39106	239.42843	262.10193	27.13171	0.0830505	5.1966128642814
(590988)	17.4	292.28634	258.37586	148.92601	24.64257	0.1129290	2.9764996642815
(590989)	16.7	126.17928	301.20831	252.83903	15.91276	0.0705666	3.1181797642815
(590990)	17.2	172.95132	295.18290	202.55184	9.17456	0.0663488	3.1406805642815
(590991)	13.9	352.83185	108.91059	267.68896	20.66033	0.0619383	5.2439891642816
(590992)	17.3	45.35189	92.35093	232.11846	11.08105	0.0556231	2.9144368642816
(590993)	17.3	117.19115	42.59554	152.48389	17.76215	0.1735741	3.1955498642816
(590994)	17.1	203.63399	264.33311	187.70982	9.73189	0.0545336	3.1808497642816
(590995)	16.8	25.91211	127.66562	196.15962	8.33281	0.0899602	2.9803910642817
(590996)	17.0	142.32469	33.66897	151.25447	17.33531	0.1912019	3.1364108642817
(590997)	14.9	292.84906	261.18256	187.10709	15.64098	0.0844264	5.0750611642817
(590998)	17.7	214.47161	29.26487	255.59876	2.31037	0.1231830	2.5882622642818
(590999)	16.1	212.55496	190.96785	317.82631	14.25309	0.1641082	2.9082393642818
(591000)	17.2	312.60376	144.10490	295.04581	8.98351	0.1285089	2.8297578642818
(591001)	16.7	155.06223	17.20628	126.98500	20.60792	0.0899467	3.2256172642819
(591002)	18.6	117.93755	89.24507	117.63971	7.74808	0.0924163	2.2337834642819
(591003)	17.1	112.38193	62.24075	136.26208	18.20550	0.0804502	3.1807136642819
(591004)	14.2	260.94898	187.75531	282.84636	17.58047	0.0831936	5.1742493642819
(591005)	17.4	265.90092	151.75343	297.48842	8.54082	0.0473455	2.9992739642820
(591006)	14.7	248.54576	5.84428	124.14608	6.02815	0.0453248	5.2078604642820
(591007)	14.1	343.21500	309.80153	93.56194	18.65518	0.1283971	5.1962671642820
(591008)	14.4	335.26893	116.27620	298.65110	20.66702	0.0554151	5.1664663642820
(591009)	16.9	302.12450	229.85183	144.77288	11.22725	0.0493261	3.1293065642821
(591010)	14.8	236.76930	123.17903	19.32751	7.63627	0.0504856	5.1548887642821
(591011)	14.3	176.57699	211.62393	354.72907	6.31445	0.0655918	5.1989510642821
(591012)	14.4	243.89233	176.95525	323.58188	16.64295	0.1315018	5.1507219642822
(591013)	13.8	325.24552	257.20430	152.37068	10.25764	0.0285478	5.1196913642822
(591014)	16.9	337.10234	346.83396	174.25162	5.35797	0.0942182	2.5900600642823
(591015)	14.5	216.36981	46.37753	111.18825	8.81579	0.0076015	5.1463025642823
(591016)	14.5	262.34745	23.82084	83.40782	5.78111	0.0668192	5.2254697642824
(591017)	14.6	311.27577	304.65407	116.69929	5.10467	0.0453725	5.2358350642824
(591018)	17.0	263.10086	310.35454	96.99320	12.10215	0.1271940	3.0800090642824
(591019)	14.8	340.00255	92.35781	295.61028	6.23043	0.0755349	5.2367647642825
(591020)	14.0	200.65683	13.88531	155.58903	7.98897	0.0371946	5.2781922642825
(591021)	18.3	180.52459	214.58264	287.45110	3.47777	0.0988034	2.2062015642825
(591022)	16.9	146.39162	6.05958	163.41472	10.98347	0.1398991	3.1651426642826
(591023)	14.5	224.27496	67.76528	91.92704	18.38960	0.0416424	5.1459572642826
(591024)	14.0	308.77451	209.53410	215.60326	15.63278	0.0791685	5.2128645642826
(591025)	18.6	133.08316	155.49654	4.69680	3.42443	0.1597420	2.2851406642826
(591026)	16.9	121.89712	65.76547	134.42610	10.88776	0.1651171	3.1701918642827
(591027)	18.4	60.75728	358.28560	268.07972	3.48917	0.0918589	2.2154559642827
(591028)	14.4	347.49204	264.15582	126.76191	14.60980	0.0540787	5.0694013642827
(591029)	14.4	248.07914	206.97325	287.19187	6.10751	0.0612043	5.1284801642828
(591030)	14.8	314.50615	275.31148	146.21901	2.57530	0.0560072	5.1404211642828
(591031)	16.3	20.94402	200.31348	108.12847	18.09442	0.1054932	3.0491439642829
(591032)	14.3	258.32775	31.98937	90.89577	8.66264	0.0750455	5.1438739642829
(591033)	13.8	335.76041	88.34514	314.67827	21.73449	0.0292826	5.3196822642829
(591034)	14.2	270.45828	1.74870	111.08532	8.81118	0.0578287	5.1884389642830
(591035)	16.7	190.45406	167.95020	321.94968	10.62817	0.0407960	3.1186462642830
(591036)	17.0	321.36674	344.64992	60.05084	12.06922	0.1579978	2.8921067642830
(591037)	16.3	165.67710	190.34667	12.98324	11.61121	0.0389897	2.9434792642831
(591038)	18.9	212.74023	105.79862	26.52362	4.12775	0.0663045	2.1862017642831
(591039)	17.0	317.41001	159.80933	205.57884	0.68347	0.0830504	3.0534419642831
(591040)	16.5	318.33019	101.48419	289.37859	8.66462	0.0892409	2.9640205642832
(591041)	14.0	343.56831	71.35892	331.34549	20.60256	0.0970905	5.1086596642832
(591042)	17.4	235.16809	346.62164	134.02313	12.04833	0.1979233	2.9982372642833
(591043)	14.6	237.98078	147.96747	345.69203	15.60689	0.0560727	5.1740133642833
(591044)	17.3	342.00500	297.55605	107.04063	7.20695	0.1370743	2.8164107642833
(591045)	17.1	283.64521	12.86739	120.38429	7.56116	0.1406680	2.7796730642833
(591046)	18.7	214.99581	289.73423	161.04430	3.73027	0.1149012	2.2343644642834
(591047)	18.7	83.49609	130.27245	82.44065	3.83376	0.1453582	2.3049615642834
(591048)	14.4	200.78719	4.28425	171.00079	5.08368	0.0469533	5.1990851642834
(591049)	17.2	96.71157	115.01582	109.90407	12.49482	0.1378631	3.1294747642835
(591050)	14.4	309.32206	323.76939	115.57094	13.22629	0.1111206	5.1554357642835
(591051)	17.1	180.70959	149.01130	352.76142	7.71747	0.0249041	3.0959795642835
(591052)	17.3	259.06658	186.28005	247.64597	6.16696	0.1387579	3.0168589642835
(591053)	16.6	166.85076	247.30925	268.96320	12.55553	0.1827980	3.1364974642836
(591054)	16.7	321.58100	232.33847	130.95499	11.57506	0.1067113	3.0948122642836
(591055)	14.5	287.54999	117.88997	335.50313	12.96248	0.0486440	5.3232346642836
(591056)	14.8	319.30143	112.60858	322.08469	15.10594	0.1211630	5.1318457642836
(591057)	16.7	178.81863	242.86645	286.85653	9.06148	0.0780605	3.0483490642836
(591058)	16.5	165.34091	272.02818	293.59126	14.81956	0.1248323	2.9975688642837
(591059)	16.8	204.48903	207.82760	293.35790	10.92132	0.0686359	3.0477275642837
(591060)	17.9	111.21659	190.66698	17.78057	7.18559	0.1465910	2.2843749642837
(591061)	17.2	306.73080	71.63127	351.39271	9.22145	0.0389372	2.9617687642838
(591062)	16.9	233.51524	356.54442	129.09762	12.42552	0.0850287	3.0174558642838
(591063)	14.1	257.00625	184.35917	308.88110	21.17557	0.0854810	5.1444631642838
(591064)	14.3	294.25624	329.82953	142.18548	16.34748	0.0861862	5.1496833642839
(591065)	16.1	267.68755	287.39194	145.38909	16.88928	0.1810211	3.0515785642839
(591066)	14.4	226.95971	236.09517	291.48042	5.06795	0.0677728	5.2617457642839
(591067)	13.9	84.56230	351.42053	309.65916	16.49307	0.0401665	5.1996131642840
(591068)	17.2	355.07227	254.94578	199.09886	12.15806	0.2154352	2.6957790642840
(591069)	16.5	310.26025	13.62206	71.61846	6.71088	0.1435712	2.8485577642840
(591070)	16.4	319.30878	293.57934	112.65553	14.12003	0.1240243	2.8892029642841
(591071)	14.4	239.23638	8.38033	141.40203	16.00297	0.0758366	5.2085330642841
(591072)	14.1	313.56551	315.48161	111.04089	9.33548	0.0982098	5.2620984642841
(591073)	18.2	182.92530	170.14011	352.86353	6.90888	0.0654931	2.2078243642842
(591074)	16.7	308.52995	66.06582	357.40263	9.06191	0.0222079	2.9609849642842
(591075)	18.9	213.46961	332.96094	158.33565	3.33611	0.0703667	2.1815909642843
(591076)	16.7	191.43243	219.39707	295.29309	9.00298	0.0729682	3.1024916642843
(591077)	14.6	274.74267	311.42372	159.52094	7.82003	0.0912101	5.1883356642843
(591078)	18.6	143.62277	343.45178	167.18843	6.01137	0.1387423	2.2965580642844
(591079)	18.6	269.61853	129.54191	312.09997	6.52017	0.0993416	2.1754790642844
(591080)	16.1	94.11633	94.33180	191.11978	8.23025	0.0551034	2.9540845642844
(591081)	16.8	129.36647	100.51828	116.57484	4.33343	0.1456752	3.1549395642845

(591082)	14.2	19.21051	225.07914	151.92077	13.60542	0.0930344	5.1710910642845
(591083)	17.0	139.19813	269.33251	315.96153	7.58410	0.1058633	3.0502513642846
(591084)	16.6	71.89614	121.66957	147.79922	19.49524	0.0790702	3.1129998642846
(591085)	14.4	313.25183	108.19945	328.16748	3.47127	0.1453548	5.1653417642846
(591086)	16.1	15.80732	346.70636	351.74623	9.34728	0.0991335	3.0327936642847
(591087)	13.9	286.57590	131.93015	339.79229	17.91781	0.1050581	5.1476122642847
(591088)	18.3	357.87863	240.86621	127.75276	4.54383	0.1057817	2.1705806642847
(591089)	17.3	204.21989	335.38342	130.87063	2.23946	0.1264238	3.1136769642848
(591090)	18.8	144.68929	350.70211	174.74102	6.83046	0.0884895	2.2805141642848
(591091)	16.3	248.68637	187.91498	278.13114	7.36928	0.0194576	3.0489405642848
(591092)	18.4	120.64665	158.87990	43.99223	3.33404	0.1661935	2.2822520642849
(591093)	17.7	249.50112	334.00819	116.05124	6.23909	0.1180023	2.2180136642849
(591094)	16.6	169.15377	103.31939	87.39281	11.73633	0.0495602	3.0340329642850
(591095)	16.6	102.56676	99.98708	145.32793	9.79772	0.0159166	3.1068418642850
(591096)	17.3	301.83141	224.38796	331.05480	4.47868	0.1111684	2.6597291642850
(591097)	16.4	59.95702	174.61712	133.27029	8.49313	0.0877030	2.9961004642851
(591098)	17.4	247.90941	118.66926	335.26883	7.15753	0.1933752	3.0346738642851
(591099)	16.9	201.83061	333.81185	159.66472	11.93687	0.1683595	3.1351429642852
(591100)	18.6	135.79263	283.34964	294.31451	6.59539	0.0937315	2.2323218642852
(591101)	14.5	7.69813	134.86684	266.61218	8.13747	0.0384810	5.0967177642852
(591102)	14.3	304.75473	262.82343	183.37189	15.11119	0.0735172	5.2911704642853
(591103)	16.2	96.14353	112.84000	152.63399	10.23775	0.2008651	3.1488127642853
(591104)	16.2	82.38381	298.40740	332.18097	20.74321	0.1745552	3.1385993642853
(591105)	17.0	6.72424	303.74737	91.74669	7.21874	0.0658750	2.7878237642854
(591106)	16.3	318.71018	286.64227	123.36423	12.98527	0.1505251	2.9407872642854
(591107)	17.1	250.83827	344.98460	117.84760	12.02290	0.0747942	3.0288707642855
(591108)	16.8	68.10260	113.12500	134.55959	9.97603	0.0346275	3.1792237642855
(591109)	16.2	43.04073	171.48298	137.17880	12.85808	0.1263577	3.1196911642855
(591110)	16.7	71.18098	134.73488	128.02991	9.40421	0.0665238	3.1904714642856
(591111)	16.5	226.23840	146.99651	347.38463	17.85734	0.0701784	3.0414395642856
(591112)	17.2	229.73397	93.16747	14.27649	4.39152	0.0831385	3.1277941642856
(591113)	18.3	70.63226	124.13208	104.75666	3.74060	0.1332775	2.3331268642857
(591114)	16.7	349.54814	9.27276	11.76448	9.94171	0.0937520	3.0152041642857
(591115)	16.9	9.18595	357.22636	346.97345	9.42874	0.0559548	3.0782779642857
(591116)	17.1	128.74027	141.88863	68.59769	4.20112	0.0303650	3.1514051642857
(591117)	16.8	254.28063	85.36864	359.63653	9.61877	0.0458125	3.1036221642858
(591118)	16.4	321.55039	239.89072	163.98714	11.18470	0.0838711	3.0001975642858
(591119)	18.1	59.79739	342.09818	289.73227	2.06481	0.2586508	2.2966704642859
(591120)	16.7	356.14280	23.17281	330.19087	9.40609	0.0655789	3.0984012642859
(591121)	18.4	193.20157	135.08466	330.29694	6.47294	0.1339973	2.2860888642859
(591122)	18.7	199.10800	242.86414	275.02735	3.06223	0.0995251	2.1974701642859
(591123)	14.0	287.30331	306.77324	154.63769	25.10356	0.1027087	5.2611564642860
(591124)	16.6	196.84754	144.70831	333.38333	9.63482	0.1715545	3.1766845642860
(591125)	16.2	108.97514	200.49021	18.41937	5.61588	0.1729514	3.2092470642860
(591126)	16.2	94.22839	218.71185	37.64222	17.44716	0.0925353	3.0693107642861
(591127)	16.4	343.86160	46.92012	353.85277	10.04885	0.1239038	2.9253072642861
(591128)	18.4	167.48222	76.64063	71.24061	3.10309	0.1302365	2.2795290642862
(591129)	16.8	197.07720	326.91753	175.52099	13.43533	0.1236376	3.1237946642862
(591130)	16.0	165.56277	291.51325	249.26170	14.60763	0.1974889	3.1212579642862
(591131)	14.3	275.60515	132.34586	346.49377	21.97179	0.0253441	5.2673843642863
(591132)	16.1	7.15220	25.19370	336.01860	11.33506	0.1949355	2.9651942642863
(591133)	17.1	240.08200	318.19690	159.09168	7.91137	0.0820736	3.0402184642863
(591134)	18.2	100.29033	24.09960	208.82097	6.22593	0.0493664	2.2496863642863
(591135)	14.6	309.63557	80.20059	4.41536	5.84212	0.1092496	5.1941428642864
(591136)	14.3	344.95932	295.25571	119.84617	8.34732	0.0817622	5.1462278642864
(591137)	14.6	338.73446	287.05140	153.46509	5.29646	0.0515503	5.1779532642864
(591138)	14.3	244.88626	188.92988	303.86756	3.45865	0.0844928	5.2072292642865
(591139)	17.3	167.81491	136.54087	135.95777	5.57014	0.0857406	2.8148604642865
(591140)	18.9	275.80950	163.75067	257.00902	3.43275	0.0847105	2.1931217642865
(591141)	14.0	45.00224	22.60756	314.45886	17.05859	0.0740017	5.1250976642866
(591142)	14.6	292.55629	322.70114	140.39355	6.29475	0.1123064	5.2488479642866
(591143)	18.4	60.38399	349.25283	286.58999	6.65794	0.1183590	2.2363605642867
(591144)	16.6	115.40538	63.99541	154.52366	27.66552	0.1227221	3.1769494642867
(591145)	17.3	257.17703	219.20493	280.08655	5.22911	0.0122700	2.9054546642867
(591146)	17.1	118.41406	41.12534	151.42138	5.84238	0.0702683	3.1465958642867
(591147)	17.0	222.94937	154.53613	317.42897	10.58280	0.0404729	3.1269397642868
(591148)	16.6	307.13151	250.41920	116.26093	10.66456	0.1020923	3.1792708642868
(591149)	14.8	341.78617	233.96930	184.35197	13.01596	0.0768761	5.1421365642868
(591150)	14.8	338.39748	244.60867	182.90748	8.35245	0.0536246	5.1997628642868
(591151)	14.6	309.42838	140.70162	299.98086	6.05472	0.0860879	5.1376683642869
(591152)	17.0	308.56628	80.40600	337.30400	9.90416	0.0190730	3.0558577642869
(591153)	16.8	108.77342	137.44037	133.73969	11.47049	0.0238350	3.0270439642869
(591154)	16.8	166.53522	44.92844	130.09336	12.66265	0.0362844	3.1581424642870
(591155)	16.9	0.30183	198.72018	146.37034	12.65954	0.0438428	3.0959190642870
(591156)	17.6	312.19783	68.57045	142.47073	6.83375	0.2281653	2.6342252642870
(591157)	18.1	66.85495	315.24628	286.02859	5.49532	0.1619650	2.3197105642870
(591158)	16.9	206.56412	147.76362	353.18583	17.33355	0.0665100	3.0746644642871
(591159)	18.9	227.70713	36.84833	73.71182	5.19874	0.0667562	2.1995080642871
(591160)	14.8	331.75451	108.50267	330.01979	4.63935	0.0306809	5.2484469642871
(591161)	18.6	158.45481	257.93618	266.87462	4.15868	0.1206179	2.2761370642872
(591162)	18.3	106.22257	232.91964	350.21846	6.03359	0.0831764	2.2558512642872
(591163)	14.3	311.49088	15.24666	72.38547	9.95909	0.0197593	5.1982126642872
(591164)	18.7	185.32199	137.83645	15.43215	5.16818	0.0639158	2.2378376642872
(591165)	18.3	101.21446	302.40190	255.88643	4.42990	0.1084870	2.3192795642873
(591166)	18.8	83.95232	222.89455	9.51290	2.74947	0.1717372	2.2870956642873
(591167)	16.8	114.93387	264.91896	333.97342	11.16394	0.0424684	3.1125435642873
(591168)	18.8	244.02472	101.32870	335.31408	3.31587	0.1645798	2.2251918642873
(591169)	18.2	171.31347	244.81662	285.45889	6.52988	0.1602267	2.2374185642874
(591170)	17.1	346.81906	53.57279	328.02885	9.59739	0.1259346	2.9678687642874
(591171)	17.2	183.85196	8.90554	134.35606	4.48728	0.0765610	3.1611144642874
(591172)	17.6	116.55517	100.21121	142.05594	10.11499	0.1239358	2.2418179642874
(591173)	16.1	51.92641	330.62706	353.81220	11.23877	0.0793520	2.9663937642875
(591174)	16.9	208.68064	193.59284	308.33578	16.31597	0.0761632	3.0696072642876
(591175)	16.4	264.11286	319.91971	183.29460	15.01293	0.0872966	2.8660301642876
(591176)	18.2	113.40343	321.58953	258.33770	5.53449	0.1262317	2.2581353642876
(591177)	16.9	200.79115	357.91299	136.60873	10.08465	0.0442003	3.1983331642877
(591178)	17.2	224.03040	258.78915	352.90116	7.67551	0.1853354	2.7613422642877
(591179)	21.6	58.39417	340.61295	233.31176	3.87192	0.1930361	1.3605658642877
(591180)	18.2	74.87883	125.07744	102.43458	3.73574	0.1352759	2.3315160642878
(591181)	16.6	205.96044	128.16218	11.52136	9.96166	0.0485818	3.1303178642878
(591182)	16.8	60.66133	291.16362	353.54706	3.57796	0.1696093	3.1808215642878
(591183)	16.3	45.40350	317.76324	344.27254	10.63218	0.1205904	3.1441470642879
(591184)	14.6	296.98610	302.39823	148.39162	8.01924	0.1398624	5.1674652642879
(591185)	16.8	12.49935	192.18940	157.52818	11.34885	0.0341994	3.0743725642879

(591186)	19.1	236.95345	129.22745	320.88087	0.60465	0.1416092	2.2342313642880
(591187)	17.1	194.80025	341.67266	177.32939	5.50072	0.0688423	3.1092025642880
(591188)	14.3	5.43400	193.72363	194.03285	11.65024	0.0964004	5.2559633642880
(591189)	16.8	1.55174	218.58266	165.55057	15.75164	0.1002057	3.0063782642880
(591190)	16.8	136.59985	193.66980	11.52854	11.61217	0.0979489	3.2146728642881
(591191)	16.1	184.37414	142.62622	25.20640	17.51361	0.2511732	3.1347455642881
(591192)	14.4	301.90322	118.76540	323.11254	12.77045	0.1025988	5.2547417642881
(591193)	15.8	177.78515	142.38716	43.07822	11.08807	0.0349335	3.1386529642882
(591194)	16.6	334.81766	34.22790	133.60862	15.19435	0.1011553	2.6387118642882
(591195)	15.6	221.53391	333.42695	175.74940	22.37313	0.1011880	3.0865369642883
(591196)	17.0	215.21541	121.91044	13.45396	15.89208	0.1812475	3.1008510642883
(591197)	16.8	164.92911	243.05891	320.44313	4.35969	0.0811651	3.0783067642884
(591198)	17.4	354.55777	61.78419	333.13211	4.66844	0.0582417	2.9720441642884
(591199)	17.2	203.49031	349.38775	327.48456	2.77719	0.1346713	2.6374485642884
(591200)	16.5	331.80549	66.04642	342.69886	9.20474	0.1063867	2.9901163642885
(591201)	16.7	66.79788	300.86305	341.57878	8.20095	0.0834055	3.1809635642885
(591202)	18.9	245.34101	143.71377	317.05406	2.34088	0.0973095	2.2193313642885
(591203)	17.5	213.85321	356.31484	122.56569	1.74181	0.0982604	3.1780246642886
(591204)	16.7	98.93842	267.37602	356.94629	10.81677	0.0816403	3.1387800642886
(591205)	17.1	200.67076	170.61100	352.03059	8.45600	0.0412042	3.0618167642886
(591206)	16.7	57.20539	323.01389	348.45350	9.66360	0.0407532	3.0526815642886
(591207)	16.6	190.77129	147.95306	5.01646	16.96962	0.1316343	3.1343738642887
(591208)	16.8	78.93592	182.11019	77.23043	2.79301	0.0943548	3.2153086642887
(591209)	17.1	205.30013	1.94539	140.44879	5.01758	0.1163082	3.1142017642887
(591210)	16.9	303.14095	29.03132	20.83260	11.28334	0.0529925	3.1087312642887
(591211)	16.7	177.42776	29.21627	161.78236	22.63823	0.0979460	3.0798124642888
(591212)	16.9	43.32433	274.04797	29.40696	9.09222	0.0706474	3.1746296642888
(591213)	16.4	67.18671	163.87670	108.91551	10.31434	0.0473353	3.2132395642888
(591214)	19.0	215.59953	291.85225	178.71354	22.87784	0.1438709	1.7960789642888
(591215)	17.6	145.33238	221.84306	297.99445	5.52337	0.1336217	2.3028415642889
(591216)	16.9	244.75030	359.52497	113.14543	13.68615	0.1799325	3.0393476642889
(591217)	16.3	76.73685	254.07147	21.04789	9.35703	0.0707772	3.1704766642889
(591218)	17.2	180.61537	83.99981	102.40052	10.68508	0.0173240	3.0095942642890
(591219)	18.7	126.80567	53.65801	139.30216	6.66340	0.0953467	2.2651546642890
(591220)	18.4	53.91785	292.47901	308.27775	1.51139	0.1767038	2.3417929642890
(591221)	16.5	195.85207	107.13336	84.93190	11.90901	0.1253906	3.0196986642891
(591222)	16.4	151.36128	177.92838	10.01230	18.65112	0.0873030	3.2022583642891
(591223)	16.2	80.77168	252.53347	20.00854	32.62163	0.0529820	3.2221819642891
(591224)	18.8	193.92323	115.77652	28.89650	7.21908	0.0693600	2.2687138642891
(591225)	17.1	199.41637	109.09373	59.92790	8.10736	0.0986715	3.1129479642892
(591226)	17.0	285.66443	267.02018	162.24706	10.55335	0.0863535	3.0489371642892
(591227)	17.4	207.35137	315.88223	4.52851	12.02725	0.1775525	2.6461839642892
(591228)	17.2	234.16836	123.37323	0.69728	2.16896	0.0729004	3.0621737642893
(591229)	14.6	216.02004	211.30923	320.33905	5.29499	0.0697877	5.2278581642893
(591230)	14.5	257.79926	170.98438	308.28228	5.95898	0.1007847	5.2502381642893
(591231)	19.2	248.34690	289.36691	142.84920	3.83721	0.0744023	2.2181378642893
(591232)	18.5	348.80525	261.63141	100.57480	3.77490	0.1875550	2.2947061642894
(591233)	18.6	219.79485	265.78660	138.00086	1.78582	0.1906058	2.4427467642894
(591234)	17.0	167.68405	320.61866	237.29088	3.77019	0.1095833	3.0843411642894
(591235)	16.8	232.10224	334.71378	139.86252	16.78167	0.1010981	3.1168004642894
(591236)	16.7	140.59255	150.01294	39.59731	13.62438	0.2342275	3.2828352642895
(591237)	16.6	334.40472	322.74378	89.25137	10.60855	0.0265662	3.0227188642895
(591238)	16.7	84.98499	87.40568	163.08446	11.23859	0.0903572	3.2228076642895
(591239)	17.1	322.41125	310.36635	109.16813	11.41872	0.1173895	2.9312291642896
(591240)	18.4	123.60523	55.52698	93.71813	3.97172	0.0765749	2.4036118642896
(591241)	18.6	291.76571	51.28643	349.38107	7.41103	0.1132875	2.2475583642896
(591242)	16.5	140.58560	233.53983	326.90203	18.35057	0.1060402	3.2129423642896
(591243)	16.8	289.03433	127.30925	295.99824	8.70212	0.0137939	3.1151340642896
(591244)	18.6	108.66312	337.61445	188.17021	6.30791	0.0435578	2.3649667642897
(591245)	16.3	218.03687	151.17803	9.65491	16.18625	0.1660729	3.0440731642897
(591246)	16.1	298.09254	342.89593	83.62917	11.36000	0.0087346	3.1062496642897
(591247)	16.3	97.46213	139.88078	131.90374	13.24123	0.1432460	3.1102477642898
(591248)	16.0	191.13735	28.01797	121.98712	29.09363	0.1532307	3.1870981642898
(591249)	16.5	161.88343	181.88841	5.37397	9.19141	0.0332015	3.1870862642899
(591250)	16.2	356.07209	7.19313	33.20739	10.65660	0.0945960	2.9688095642899
(591251)	16.6	151.00233	168.91439	42.95642	11.27850	0.0381992	3.1334620642899
(591252)	18.3	61.41053	251.20513	358.67047	1.48066	0.1308621	2.3422992642900
(591253)	18.3	69.76151	233.80641	24.91246	6.50506	0.0857320	2.3070845642900
(591254)	16.1	237.02789	100.05226	8.17026	17.67836	0.0516404	3.1987683642900
(591255)	16.1	198.68007	186.85465	332.43305	17.12554	0.1155995	3.1085302642901
(591256)	18.0	150.80302	35.68929	154.67229	2.94505	0.0467816	2.2753360642901
(591257)	16.8	249.86503	94.90734	7.36680	8.83590	0.1687856	3.1133917642902
(591258)	18.2	56.68765	320.16912	304.74362	1.41259	0.1884804	2.3365634642902
(591259)	18.5	124.51103	157.27716	36.78646	1.13875	0.1237921	2.3142316642902
(591260)	17.9	114.36022	166.36111	81.50142	7.71153	0.0769086	2.2363046642903
(591261)	18.0	47.15045	164.21724	118.92537	4.98193	0.1853524	2.3172063642903
(591262)	18.5	89.15613	195.58553	19.41072	1.67490	0.1382102	2.3395199642903
(591263)	16.6	161.11967	175.15540	23.29822	16.48930	0.0896811	3.1930347642904
(591264)	16.4	219.41713	341.52959	141.75042	8.28230	0.0805445	3.1909438642904
(591265)	16.4	99.27545	286.05139	329.72852	9.56066	0.0531385	3.1551673642904
(591266)	18.2	92.32292	86.46056	117.38278	3.14247	0.1538963	2.3355954642905
(591267)	16.8	212.81141	300.38233	192.31826	9.48507	0.2502692	3.0892827642905
(591268)	15.8	163.31710	0.63234	193.79104	28.55046	0.1372026	3.1836143642905
(591269)	18.3	169.46782	282.43799	218.98666	4.78794	0.0964663	2.3096137642906
(591270)	16.2	209.75084	62.07023	56.15453	10.08402	0.0970618	3.2495937642906
(591271)	18.1	320.89052	10.59372	13.35326	11.42665	0.0520845	2.2720199642906
(591272)	15.5	62.79794	317.07164	12.68537	23.57222	0.1245463	3.1113049642907
(591273)	16.6	51.07534	135.66377	182.19004	10.59675	0.1058596	3.1935254642908
(591274)	16.3	182.95342	168.15676	15.51471	21.16972	0.1221401	3.1506478642908
(591275)	16.5	85.87198	213.71078	53.82928	5.19718	0.0485495	3.2361268642908
(591276)	17.5	233.12759	204.23042	85.18962	5.73680	0.0845204	2.6771918642909
(591277)	18.3	53.97210	136.99139	105.91611	2.31195	0.1490714	2.3813765642909
(591278)	16.4	286.52096	58.60746	43.51334	10.37505	0.1213785	3.0199192642909
(591279)	16.1	8.39699	339.96716	46.63253	10.02627	0.0460085	3.0497089642910
(591280)	16.5	60.82615	148.83274	159.47922	11.28892	0.0901461	3.1530208642910
(591281)	16.5	116.60383	218.25050	22.69848	16.44763	0.0564183	3.1911900642910
(591282)	16.4	358.50827	324.64820	49.18903	10.16599	0.1513844	3.1236095642911
(591283)	17.6	275.16374	56.28981	200.06189	13.31184	0.1122392	2.5924507642911
(591284)	18.4	199.38025	357.38526	125.14212	5.61168	0.1135929	2.2927845642911
(591285)	18.9	169.36336	117.92100	45.18725	1.68963	0.0510769	2.2911535642912
(591286)	18.1	69.53320	94.16984	127.77857	4.03682	0.1580192	2.3739530642912
(591287)	18.1	70.38970	250.61762	15.27066	2.30430	0.1632782	2.3324789642912
(591288)	16.8	178.00559	344.63223	179.01355	17.27541	0.1566879	3.1646518642913
(591289)	18.3	105.94975	18.37095	182.48886	2.23801	0.1452700	2.3608469642913

(591290)	16.4	69.23779	271.17063	48.51271	9.41603	0.0845909	3.1719871642913
(591291)	15.9	287.94835	6.10616	73.38873	16.86824	0.0835191	3.1837117642914
(591292)	16.3	235.62288	345.82416	136.93470	11.30690	0.0482080	3.2214716642914
(591293)	17.3	26.55587	203.97225	84.45005	3.70479	0.1886839	2.3832669642915
(591294)	18.2	67.24759	267.72361	317.03841	4.09377	0.1891782	2.3784550642915
(591295)	16.7	183.14378	162.23428	26.02558	10.86604	0.1561276	3.1384244642915
(591296)	16.0	182.55628	101.17525	80.99710	10.51249	0.0389882	3.1701454642916
(591297)	18.3	74.91391	119.00067	114.43846	3.16478	0.1843242	2.3704057642916
(591298)	17.5	118.61491	241.59578	6.69668	8.15731	0.1278889	2.2498779642917
(591299)	18.3	86.81431	187.83114	48.26191	2.73178	0.1796525	2.3374724642917
(591300)	18.4	126.82874	31.43043	164.70339	5.74246	0.1684391	2.3167695642917
(591301)	17.9	36.71551	125.13554	173.02189	7.02641	0.1347300	2.3157067642918
(591302)	16.4	253.68715	277.35627	196.60277	10.85228	0.0452196	3.1489768642918
(591303)	18.2	113.31245	247.70219	288.28238	4.54990	0.1050005	2.3268819642918
(591304)	16.0	206.97345	126.56770	29.24903	27.57179	0.3313935	3.1359667642919
(591305)	16.6	284.38404	108.66594	349.70510	8.73482	0.1655906	3.0000208642919
(591306)	19.1	155.74937	6.86805	156.52467	2.58135	0.1533109	2.2992486642919
(591307)	18.4	73.69674	91.14322	133.72034	2.85618	0.1300913	2.3835557642920
(591308)	18.3	104.00095	32.82878	194.65535	5.15200	0.1006791	2.3360315642920
(591309)	17.6	23.02344	221.60988	106.18938	8.72548	0.2131733	2.3463200642920
(591310)	16.5	241.15266	26.16154	121.30887	6.72730	0.1126509	3.0602935642921
(591311)	18.6	109.13563	8.82170	218.97750	6.32335	0.1505622	2.3282459642921
(591312)	17.4	179.24477	97.65482	99.68358	2.83050	0.1404127	3.1400609642921
(591313)	18.0	42.60316	194.60785	90.58027	2.40775	0.1798693	2.3511899642921
(591314)	18.4	99.77144	15.22946	201.63935	5.67036	0.0824637	2.3505821642922
(591315)	16.7	188.96002	89.45557	81.54292	4.95535	0.1685880	3.1558644642922
(591316)	16.4	173.01509	107.19107	86.59535	7.65307	0.1666567	3.1594542642922
(591317)	17.7	17.00622	179.52470	118.72231	11.31977	0.2310523	2.3963684642923
(591318)	18.3	70.84714	224.23383	20.48647	1.45931	0.1462861	2.3539275642923
(591319)	18.2	67.00636	129.71899	101.58480	6.11337	0.1708698	2.3850358642924
(591320)	18.6	150.48714	33.08210	144.27218	3.30158	0.1329260	2.2984958642924
(591321)	18.9	233.08643	156.66832	298.41602	5.36109	0.0732843	2.2978116642924
(591322)	16.8	42.03493	7.77260	316.18590	6.66881	0.0772705	3.2195959642925
(591323)	18.5	95.36898	285.78734	324.66900	4.05576	0.0687079	2.2886165642925
(591324)	16.7	337.49073	49.36364	352.49547	8.53120	0.0472425	3.1378124642925
(591325)	16.7	0.27888	344.27354	15.07383	21.88835	0.0455750	3.2100688642926
(591326)	19.0	97.66821	259.43559	339.70940	2.42539	0.1223625	2.3049324642926
(591327)	17.1	306.62415	48.77575	5.41417	8.03276	0.0544375	3.1839765642926
(591328)	18.6	28.69161	35.25335	296.39528	3.38727	0.0658169	2.2603024642927
(591329)	16.4	351.16835	24.51344	3.56207	9.60035	0.1196657	3.1356468642927
(591330)	17.3	203.72676	165.57448	344.77042	3.60905	0.0505441	3.2121490642927
(591331)	17.0	43.17533	93.22484	224.76747	10.98456	0.0349882	3.2307662642927
(591332)	18.3	346.74131	337.16292	21.13654	11.52084	0.2286034	2.3156396642928
(591333)	19.2	82.55780	246.21825	336.70978	2.10213	0.1479085	2.3590440642928
(591334)	17.7	173.95258	258.63526	22.90744	3.72645	0.0448797	2.8728462642928
(591335)	18.3	45.43289	200.89735	219.56549	3.40735	0.0984095	2.8146560642929
(591336)	18.4	234.33092	89.58275	27.44454	8.11092	0.0710401	2.2551448642929
(591337)	16.4	59.32132	293.36385	35.31996	10.70066	0.1143859	3.1445182642929
(591338)	16.9	234.74416	314.20651	164.44641	1.62524	0.0591696	3.2104582642930
(591339)	18.9	346.46873	156.35728	175.37675	2.69352	0.1990391	2.3688797642930
(591340)	18.9	285.70453	32.32105	30.67155	3.36023	0.1387038	2.2607394642930
(591341)	16.8	341.21104	176.94150	218.37853	16.44599	0.0983189	3.1430003642931
(591342)	17.5	103.52705	66.69836	289.50704	4.80826	0.1010762	2.8867379642931
(591343)	16.9	295.83340	225.05026	205.91141	16.29190	0.1600250	3.1109941642931
(591344)	16.7	252.90132	264.68870	210.72116	8.33201	0.0355966	3.1586183642932
(591345)	16.9	211.92336	149.88508	13.26593	5.13306	0.0930366	3.1098954642932
(591346)	16.6	242.16361	163.94428	7.25239	15.16828	0.1624786	2.9809802642932
(591347)	16.1	12.48376	352.83388	33.58991	10.91905	0.0377621	3.0678387642933
(591348)	17.9	58.44383	53.21271	224.08423	7.38997	0.1008439	2.3340443642934
(591349)	16.1	173.55851	335.84820	226.01171	15.06989	0.1103679	3.2091119642934
(591350)	18.4	91.05629	146.12815	59.75643	2.55892	0.1290076	2.3909264642934
(591351)	18.4	101.44996	356.90128	211.36427	3.40290	0.1461380	2.3740011642935
(591352)	18.1	22.90985	240.31745	83.25452	5.94751	0.1993032	2.3568093642935
(591353)	15.9	214.19750	102.12978	34.82897	26.22325	0.1781060	3.1859518642935
(591354)	18.1	172.77686	307.26889	185.10722	2.11768	0.1507138	2.3319970642936
(591355)	18.1	73.23927	214.99333	27.99709	1.74527	0.1458921	2.3556323642936
(591356)	16.2	194.56089	138.51556	23.66034	19.12103	0.1519011	3.2059335642937
(591357)	18.4	156.38551	101.61458	66.32871	6.00566	0.1080866	2.3353908642937
(591358)	18.2	61.96609	187.75969	69.29338	10.86284	0.0909479	2.3804692642937
(591359)	18.6	50.43910	62.85673	216.06518	1.81258	0.1969225	2.3660151642937
(591360)	18.6	134.44599	124.55836	71.09992	8.52346	0.0665770	2.3160764642938
(591361)	18.0	100.29454	200.72565	8.77072	5.55075	0.1888288	2.3713436642938
(591362)	18.1	27.49639	180.33884	81.68568	2.69563	0.1500823	2.4566505642938
(591363)	18.3	93.70507	82.27053	121.24132	5.36973	0.1651363	2.4114716642938
(591364)	17.8	158.31065	306.84730	233.28141	20.97691	0.2382285	2.3108642642939
(591365)	18.8	88.05621	152.12734	77.28028	2.48069	0.1536015	2.3884670642939
(591366)	18.2	44.79298	85.46248	200.10022	13.96070	0.1537740	2.4498176642939
(591367)	17.7	89.66063	100.22215	148.00956	7.73146	0.1392338	2.3532139642940
(591368)	17.4	78.75444	355.79089	256.04283	7.23359	0.1828355	2.3711928642940
(591369)	18.5	96.25744	174.68248	40.48938	3.83364	0.1319891	2.4348760642941
(591370)	9.4	13.79520	343.86265	303.93624	37.36352	0.4959742	37.6098085642941
(591371)	18.7	111.07053	155.07360	57.89126	4.03895	0.0762535	2.4229182642941
(591372)	18.0	204.48470	49.83487	104.26957	7.70023	0.0578546	2.3671708642942
(591373)	17.7	1.63803	215.07798	127.83064	7.26656	0.1628158	2.4307378642942
(591374)	17.9	33.60781	25.48588	270.00231	4.70062	0.1206162	2.4597852642943
(591375)	16.9	325.65956	58.79958	331.92555	14.09384	0.1629230	2.5775471642943
(591376)	8.3	21.29885	290.58190	2.03108	4.66958	0.3854687	40.1397766642943
(591377)	18.0	64.22382	168.11318	133.60055	9.77421	0.0632204	2.3954375642944
(591378)	18.2	27.64805	248.44424	44.41331	2.83605	0.1723188	2.4741919642944
(591379)	18.5	17.85567	192.85441	123.45175	5.41017	0.0779172	2.4663170642944
(591380)	18.6	114.76891	11.42202	201.57524	4.91042	0.1785125	2.4385528642944
(591381)	17.2	191.68586	268.33806	269.98377	18.28163	0.2485897	2.3387197642945
(591382)	18.6	276.96594	279.37460	158.37598	22.75550	0.0884234	1.8740967642945
(591383)	17.9	8.19306	310.15727	24.13500	2.36361	0.2020463	2.4735630642945
(591384)	18.6	349.07944	33.32131	327.93629	17.08605	0.0847745	1.8876709642946
(591385)	18.3	34.36710	59.50024	245.19388	1.48384	0.2022290	2.4662447642946
(591386)	17.7	13.43273	188.00446	170.04523	12.11668	0.1672108	2.4289567642946
(591387)	18.2	43.98008	69.46460	205.81837	7.52755	0.0562097	2.5331841642947
(591388)	18.7	319.94748	47.02767	333.63405	19.53093	0.0841682	1.9033125642947
(591389)	17.2	201.25154	116.35482	177.32172	10.45242	0.0792554	3.0200085642947
(591390)	17.9	356.54423	114.47141	273.33815	4.11142	0.1032058	2.3814987642948
(591391)	17.4	231.41379	208.26171	190.20923	3.14094	0.1085087	2.6777132642948
(591392)	6.6	33.68650	221.38421	87.28270	8.87732	0.1462150	45.9785581642948
(591393)	17.7	278.86770	110.01041	336.61221	12.46325	0.1337456	2.4302049642949

(591394)	17.9	163.95435	256.96081	266.57112	5.51742	0.0667953	2.5298182642949
(591395)	18.3	49.17317	191.04617	88.92364	2.35712	0.1737559	2.4488279642949
(591396)	18.0	27.78633	93.34559	229.16060	5.09662	0.0799517	2.4563063642950
(591397)	18.2	156.99944	280.54614	253.15486	4.97103	0.0272943	2.5282441642950
(591398)	17.9	212.43923	249.18313	131.60098	5.22516	0.0854043	2.7711153642950
(591399)	17.6	305.99047	113.13020	322.45809	7.20568	0.0743456	2.3976372642950
(591400)	19.1	129.24170	268.97883	296.69341	16.56045	0.0745466	1.8920626642951
(591401)	16.7	112.18161	283.44680	107.60186	5.73982	0.1312883	3.1161711642951
(591402)	18.1	273.76205	105.69411	339.95532	14.40414	0.0202497	2.4384843642951
(591403)	18.2	324.36141	233.06321	160.53458	14.65384	0.1056757	2.4630139642952
(591404)	18.4	10.51791	347.30649	349.42459	19.63998	0.0747869	1.8898551642952
(591405)	17.7	353.40042	225.31919	136.29723	7.62990	0.2149402	2.4604620642952
(591406)	18.2	8.97447	263.54416	107.97048	3.21443	0.2247353	2.4163457642953
(591407)	16.8	127.65765	226.39219	144.84778	5.45314	0.1537390	3.1145668642953
(591408)	17.6	320.75290	38.49002	12.46259	6.84950	0.0982675	2.4377699642953
(591409)	18.2	129.55735	182.23140	156.77724	5.21111	0.1874056	2.2194795642954
(591410)	18.0	73.46910	122.70401	148.99641	14.77788	0.1400406	2.4450196642954
(591411)	18.4	297.19213	48.51831	330.16629	11.28370	0.2164410	2.5675497642954
(591412)	18.2	47.01823	124.69931	190.33134	5.90714	0.1192117	2.4187658642955
(591413)	17.7	343.55946	39.94867	339.32239	9.62567	0.2740532	2.4695759642955
(591414)	17.9	24.19806	197.25689	149.50597	8.51671	0.2401845	2.4177980642955
(591415)	17.5	38.83119	331.08662	319.99498	13.82893	0.1190077	2.4788867642956
(591416)	18.6	305.18004	274.41767	136.63491	2.96703	0.1875458	2.4715617642956
(591417)	17.7	26.94161	71.42899	246.82429	10.54661	0.2067339	2.4513968642956
(591418)	17.2	283.93502	4.04446	51.88600	14.64099	0.0625748	2.5251863642957
(591419)	18.2	359.06707	264.66589	103.27869	6.56735	0.1017534	2.4222861642957
(591420)	17.4	264.69142	116.94960	337.89427	7.01063	0.0495407	2.4707328642957
(591421)	17.8	234.44403	150.32919	337.23124	5.84292	0.0970277	2.4727761642958
(591422)	17.7	229.18970	115.02002	246.03580	4.11139	0.0866265	2.7849368642958
(591423)	17.4	34.75074	219.85324	126.77812	2.17917	0.1956924	2.4150781642958
(591424)	17.7	322.90097	123.83575	190.81077	29.97175	0.3660480	2.6030479642959
(591425)	17.4	3.14193	205.30719	183.56782	4.91559	0.1303624	2.4214710642959
(591426)	19.0	285.88677	50.30292	28.41674	19.27814	0.1291950	1.8876742642960
(591427)	17.1	99.71928	210.19596	70.34901	2.79144	0.1673509	2.3976466642960
(591428)	18.6	6.03047	342.35818	3.91606	20.61412	0.0896446	1.9033302642961
(591429)	18.0	14.43893	324.58294	6.75618	9.63870	0.2402025	2.4772788642961
(591430)	16.1	58.16662	241.48526	22.12759	13.57406	0.1728717	2.4635261642962
(591431)	17.2	312.19620	166.60383	237.84468	6.19967	0.0863999	2.4825943642963
(591432)	18.0	35.57277	319.94658	352.83762	4.08225	0.1811450	2.4601367642963
(591433)	18.4	303.15485	52.42962	1.15790	21.05944	0.0838802	1.9082419642963
(591434)	14.5	288.32276	297.39926	24.32231	8.19400	0.0314954	5.3210933642964
(591435)	18.3	8.84465	242.13555	85.51668	1.93440	0.1416888	2.5167606642964
(591436)	18.1	23.20924	338.17585	7.89608	1.16813	0.1935004	2.4381559642964
(591437)	18.0	290.38272	195.20781	203.46116	5.68585	0.1881662	2.6324582642965
(591438)	18.3	81.99919	238.24360	4.56327	20.14955	0.0723043	1.9343065642965
(591439)	17.7	274.80538	136.98475	179.62996	1.95750	0.0548881	2.8649600642965
(591440)	18.2	141.33777	334.49866	243.59463	18.82474	0.0839149	1.8721609642965
(591441)	18.4	332.84618	0.27477	344.93187	4.41601	0.0843920	2.5660137642966
(591442)	18.1	358.60704	253.25942	185.09337	5.87891	0.0840377	2.3860214642966
(591443)	16.4	284.05080	268.52292	180.43563	21.45099	0.1084497	2.5654839642966
(591444)	17.2	13.72187	8.83291	321.43736	5.53372	0.1289119	2.5225240642967
(591445)	17.6	221.11205	76.59017	351.52392	2.06315	0.1786746	2.7204515642967
(591446)	17.9	251.12551	105.52507	2.53816	5.80685	0.2283288	2.5591216642968
(591447)	18.5	231.68315	90.67114	3.14100	19.81132	0.0846665	1.9403174642968
(591448)	17.3	263.55838	323.35975	167.39471	6.11512	0.1626580	2.4313228642969
(591449)	18.0	346.88486	25.05574	352.18228	5.90328	0.1457325	2.4762405642969
(591450)	17.2	258.68542	248.82992	182.86537	27.82516	0.0672901	2.5687180642970
(591451)	18.2	328.46426	357.37435	352.90865	3.73513	0.0776839	2.5632477642970
(591452)	15.6	32.08246	194.53112	114.88646	3.97834	0.1861121	4.0014216642970
(591453)	17.6	329.83022	7.38609	45.37714	13.15002	0.2015156	2.4705415642970
(591454)	18.5	262.15936	275.62035	185.93355	4.16495	0.2212694	2.5345709642971
(591455)	16.3	254.54147	50.35105	195.35268	17.11735	0.1937849	3.0909453642971
(591456)	18.0	15.45900	113.76063	204.91008	8.97337	0.1612476	2.5158389642972
(591457)	17.1	22.60637	98.98531	253.23073	13.54921	0.1438113	2.4335180642972
(591458)	18.2	60.21071	241.86537	32.17606	4.91422	0.1044591	2.5289214642972
(591459)	17.3	239.99962	281.93818	185.83010	11.89577	0.2236752	2.6214488642973
(591460)	16.9	160.39978	153.16210	86.80276	4.40073	0.0289613	2.4423575642973
(591461)	17.4	226.20804	263.61825	219.98338	14.24486	0.0765170	2.5659191642974
(591462)	17.4	6.90114	104.63443	201.63704	26.70449	0.1807461	2.5816087642974
(591463)	18.1	60.93919	283.56085	352.23775	3.01996	0.1050772	2.5396424642974
(591464)	17.0	115.07901	19.71939	200.14346	17.25832	0.1136541	2.5865236642975
(591465)	18.2	336.30200	339.78045	32.95566	3.13549	0.1671985	2.5646051642975
(591466)	17.9	241.85593	275.01266	203.03619	11.01137	0.1307928	2.5311921642976
(591467)	17.9	94.84115	27.99726	184.95996	12.25952	0.2134188	2.5821155642976
(591468)	17.7	42.69608	353.74963	331.32930	5.40625	0.2102983	2.4576987642976
(591469)	18.4	285.32070	203.19571	241.74270	0.98536	0.1444463	2.5238335642976
(591470)	15.9	36.48961	24.34593	288.75521	4.47882	0.2718876	3.9803867642977
(591471)	17.6	308.20991	268.08453	152.15224	4.49991	0.1740197	2.5347346642977
(591472)	17.7	218.11143	70.12559	53.41173	3.93481	0.0461177	2.6253111642977
(591473)	18.1	245.39220	51.16477	29.46194	3.01599	0.1036856	2.6069350642978
(591474)	18.0	249.39652	259.78403	195.78669	7.25414	0.1858708	2.6159832642978
(591475)	18.0	54.83896	85.77338	187.89382	11.62962	0.0438332	2.5639552642978
(591476)	16.8	158.55480	152.52715	189.79533	1.57854	0.1611467	3.1827588642979
(591477)	17.5	154.71333	16.08852	108.16894	4.45628	0.0409021	2.7661166642979
(591478)	17.8	45.21442	41.50113	258.73180	4.89325	0.1521817	2.5571051642979
(591479)	17.3	205.72398	300.51868	218.21100	14.37364	0.0565564	2.5524350642979
(591480)	17.5	5.10007	274.04254	1.11906	2.18360	0.1070318	2.7175466642980
(591481)	18.0	281.87924	271.69073	177.11968	5.36098	0.1920731	2.5656365642980
(591482)	17.1	227.67684	239.69370	242.48692	10.57391	0.2538835	2.6507505642980
(591483)	17.9	261.99017	252.81495	186.58651	12.31529	0.1680834	2.6094744642980
(591484)	17.7	344.20981	337.36492	9.93769	4.14952	0.0731115	2.6184528642981
(591485)	18.1	20.33061	96.51011	244.16540	13.10712	0.2156019	2.4730675642981
(591486)	8.4	354.26152	284.96995	129.35723	10.36626	0.2827920	39.5328690642981
(591487)	17.2	124.30688	12.56059	195.17666	14.01998	0.1864006	2.5824274642981
(591488)	18.6	340.90519	59.73110	300.83338	9.44605	0.1576419	1.9258050642982
(591489)	17.0	263.08044	298.21766	139.43356	12.44126	0.0470515	2.5941970642982
(591490)	18.7	295.25920	202.91959	215.51365	19.85124	0.0915684	1.9251667642983
(591491)	18.2	359.78245	124.30516	209.65258	7.60266	0.1797363	2.5653821642983
(591492)	17.1	233.75579	228.21588	228.52754	21.04160	0.0479437	2.6637917642983
(591493)	17.8	14.02100	259.83988	66.63575	8.97825	0.1983697	2.5813012642983
(591494)	17.8	207.97071	198.81815	279.06257	2.56478	0.0991102	2.7076525642984
(591495)	17.9	349.68245	284.06961	82.09093	9.21146	0.1061230	2.5314377642984
(591496)	17.9	28.85899	250.64923	48.72669	10.92297	0.1635443	2.5969508642984
(591497)	17.8	17.12358	119.91230	211.79088	21.64322	0.0908973	2.5641638642985

(591498)	17.1	342.83432	119.40299	238.95352	21.05937	0.0144905	2.6200858642985
(591499)	18.1	248.07280	173.09847	245.99207	2.17106	0.0876080	2.7021312642985
(591500)	17.5	328.60089	284.71392	93.26954	14.02300	0.2016662	2.5666688642985
(591501)	18.1	338.48299	184.56446	183.94617	9.14586	0.0572828	2.5553901642986
(591502)	17.9	296.37841	107.62479	307.12238	8.50322	0.0484386	2.6001411642986
(591503)	18.3	194.28533	270.75296	238.85100	17.97789	0.0878824	1.9565514642986
(591504)	18.1	115.97811	337.95841	233.19039	19.72774	0.0518534	1.9705573642986
(591505)	17.4	279.92070	218.29445	216.42931	21.59766	0.0591354	2.5740230642987
(591506)	16.9	285.76547	198.81086	212.32234	21.68278	0.0669958	2.6020459642987
(591507)	17.8	268.73814	153.94735	263.95914	3.36052	0.0964209	2.7169742642988
(591508)	17.3	244.56131	37.90233	60.03268	14.17930	0.2150227	2.6522806642988
(591509)	18.1	6.87997	257.43009	87.66380	6.10568	0.2303560	2.5197153642988
(591510)	17.1	111.97546	236.02752	11.59322	16.78880	0.0943053	2.5509594642988
(591511)	17.9	288.68393	89.37663	359.34925	11.68592	0.1629335	2.5470899642989
(591512)	17.9	296.33286	158.73777	242.12802	13.35273	0.1403193	2.6352688642989
(591513)	18.3	94.31690	119.76954	124.11759	6.82089	0.0126701	2.6052268642989
(591514)	18.1	359.35095	187.83940	145.34253	6.06769	0.1241849	2.6094027642989
(591515)	17.8	342.62067	290.94593	71.81811	7.25463	0.1000175	2.6271967642990
(591516)	18.1	234.70035	255.17939	202.14932	10.74402	0.1279400	2.6614589642990
(591517)	17.9	225.00859	286.91036	170.70431	3.26291	0.0830292	2.7112834642990
(591518)	18.0	96.63356	155.02670	60.60186	7.28547	0.0405905	2.6881986642990
(591519)	17.9	314.52078	277.29312	104.59348	6.28565	0.0629270	2.6275066642990
(591520)	18.0	1.67138	253.01827	90.18483	5.33555	0.2040412	2.5652247642991
(591521)	17.5	346.07965	269.84087	100.68670	12.50091	0.1488966	2.5624845642991
(591522)	17.3	321.55796	139.62957	256.77976	3.17330	0.1602011	2.5710446642991
(591523)	16.8	211.95310	23.88157	108.16434	14.92756	0.0405348	2.6451277642992
(591524)	17.3	293.39658	220.38855	194.33730	13.55181	0.0349668	2.6130545642992
(591525)	18.0	344.26250	141.89713	239.80133	2.90378	0.1002745	2.5575666642993
(591526)	17.4	95.54233	348.83638	260.80427	1.06022	0.0315919	2.6283572642993
(591527)	16.8	260.85642	141.18296	353.52693	9.15385	0.0909128	2.5354118642993
(591528)	17.5	40.04045	4.84921	301.81908	5.72692	0.3109026	2.5485643642994
(591529)	17.9	324.19326	33.75107	328.42571	1.30440	0.1017707	2.6761174642994
(591530)	17.8	54.59216	1.79521	33.00137	1.98448	0.1825058	2.3717562642994
(591531)	16.9	270.42854	296.17417	82.08551	6.80940	0.0503601	2.7482232642995
(591532)	17.8	351.29991	100.95695	227.62349	19.90256	0.0773394	1.9733611642995
(591533)	17.4	292.03752	344.60716	103.14929	11.77475	0.0576355	2.5619495642996
(591534)	17.7	287.55479	161.67483	235.52689	1.63128	0.0219422	2.6975181642996
(591535)	16.5	227.99478	290.27991	205.74841	12.55790	0.2144384	2.6494930642996
(591536)	19.0	156.99533	335.41062	212.29400	14.45675	0.0561789	1.9699951642997
(591537)	17.8	239.48348	55.68975	50.51114	3.11141	0.1519250	2.6656663642997
(591538)	16.2	324.05057	150.30550	243.98699	12.17076	0.1402119	2.5836509642998
(591539)	17.9	1.80443	189.61383	155.24379	3.56918	0.0675215	2.6140406642998
(591540)	17.0	19.88734	58.34912	258.99604	15.77529	0.2457162	2.5746856642999
(591541)	17.0	17.74799	169.02367	180.70787	3.48529	0.1233272	2.5591867642999
(591542)	17.6	359.09326	288.74200	87.44216	11.42160	0.1875397	2.5314108643000
(591543)	17.4	217.63882	312.93188	200.74701	4.50228	0.1481163	2.6281271643000
(591544)	16.5	346.30328	357.65965	28.10590	6.98302	0.1760322	2.5441342643000
(591545)	17.7	195.24982	94.14662	44.83003	4.09216	0.1312368	2.7122808643001
(591546)	17.1	350.71385	306.91700	66.32790	16.26270	0.1770064	2.5591395643001
(591547)	17.6	25.15034	306.29158	14.66240	4.10245	0.2310211	2.5662888643002
(591548)	17.5	0.73980	347.67226	358.13881	4.56470	0.2225164	2.5580764643002
(591549)	18.9	292.52238	225.39876	225.34862	20.10231	0.0846983	1.9147467643002
(591550)	16.1	52.06231	349.26190	305.77089	13.18223	0.1511607	2.6898299643003
(591551)	17.2	143.84773	342.23419	217.02902	13.91483	0.0596780	2.6448481643003
(591552)	17.9	261.95369	358.34162	111.24501	10.43349	0.3043710	2.6815371643004
(591553)	17.0	328.10660	325.96882	56.47162	15.69559	0.1208030	2.5963377643004
(591554)	18.0	319.59004	227.91529	184.36822	12.99244	0.2047345	2.5640259643004
(591555)	18.0	264.84139	174.05560	297.83018	6.63269	0.1558927	2.6317597643005
(591556)	17.4	249.87898	8.15650	70.92164	12.26051	0.0631031	2.7224619643005
(591557)	17.8	42.63390	61.00189	220.68621	10.94243	0.1730798	2.6259099643005
(591558)	17.8	7.78776	288.19509	54.43910	3.86466	0.1164029	2.5818107643005
(591559)	17.9	281.74572	76.61652	330.41521	2.15544	0.0718847	2.7128735643005
(591560)	17.3	262.90691	101.32107	25.16795	10.64106	0.2971742	2.6086453643006
(591561)	17.3	262.76088	342.82621	128.36023	12.22742	0.1232961	2.5400714643006
(591562)	17.8	225.52783	242.03640	237.73792	19.44197	0.0932448	1.9694668643007
(591563)	16.8	281.98210	153.60662	286.73021	11.75560	0.1336281	2.6439657643007
(591564)	17.3	272.63711	357.56626	80.11128	13.44404	0.2496965	2.6793333643007
(591565)	17.1	333.16949	359.91840	23.84530	6.35516	0.2793853	2.5718172643008
(591566)	18.2	246.08010	247.95134	216.86786	21.87568	0.0846634	1.9585484643008
(591567)	18.0	279.73106	113.24009	346.56425	3.10787	0.1395059	2.6160261643008
(591568)	17.2	255.65770	317.99540	109.93701	4.88480	0.0821021	2.7669462643009
(591569)	17.2	271.63270	343.47477	118.60998	14.37029	0.1401892	2.6379152643009
(591570)	17.8	265.26251	346.92338	84.10640	6.26597	0.0932278	2.6935588643009
(591571)	17.8	10.17810	326.30031	2.07818	6.16077	0.1821200	2.6238692643010
(591572)	16.6	359.99306	270.20732	91.76012	12.45655	0.0319417	2.6073712643010
(591573)	17.6	293.19028	137.35585	300.12244	5.38718	0.1775548	2.6388979643010
(591574)	17.3	273.78074	286.82080	110.04138	8.63908	0.2305539	2.7848583643010
(591575)	17.6	332.26977	290.79227	122.54368	6.26201	0.2373531	2.5683447643011
(591576)	16.5	283.66362	359.54804	118.39147	34.96749	0.1743537	2.6020822643011
(591577)	17.5	327.47166	329.14590	67.92971	2.69043	0.2067483	2.6200227643011
(591578)	18.2	265.27194	350.68191	99.43314	4.91243	0.2132693	2.6480312643012
(591579)	18.7	42.88755	207.90579	248.61957	1.36748	0.1331448	2.3464690643012
(591580)	17.5	341.65664	252.32539	131.91572	5.75458	0.3449907	2.5902975643012
(591581)	17.2	336.53666	254.39007	129.11378	10.28603	0.2314528	2.6463258643013
(591582)	17.8	288.60937	345.50712	84.23796	2.89936	0.1918464	2.6438797643013
(591583)	17.0	153.63987	285.56033	122.38430	3.58383	0.0899606	3.1414943643013
(591584)	18.1	33.26275	315.10062	72.95749	2.51529	0.1969005	2.4220090643013
(591585)	17.5	356.81297	265.55391	102.26665	4.98645	0.2182252	2.6122657643014
(591586)	16.4	43.76915	263.35651	74.49768	17.30372	0.1165960	2.5476789643014
(591587)	17.9	264.98863	187.32129	277.04447	3.28652	0.0522649	2.5982598643014
(591588)	17.5	279.17825	294.06603	130.89488	9.57473	0.1907247	2.7460937643015
(591589)	17.5	349.56015	17.16739	97.55140	3.45945	0.1720205	2.4121168643015
(591590)	16.9	247.11653	176.13248	300.12688	10.23265	0.1367920	2.6992754643015
(591591)	17.4	355.36516	290.53022	105.94808	4.08044	0.2566174	2.5498726643016
(591592)	17.0	244.48465	219.70461	278.56249	12.92819	0.0273363	2.6264632643016
(591593)	17.9	234.77897	78.33115	30.24036	4.29797	0.0867683	2.7322188643017
(591594)	16.6	114.21004	155.58638	111.67952	13.23405	0.1190493	2.6480931643017
(591595)	17.1	342.64393	261.91688	133.75764	5.67611	0.1294849	2.6325891643017
(591596)	16.5	14.28880	53.63019	277.97193	6.40984	0.0356062	2.7239030643018
(591597)	18.0	335.71309	306.28906	71.43414	3.66077	0.2140381	2.5940143643018
(591598)	17.3	30.90415	52.33201	271.71637	9.85362	0.1790736	2.5883786643019
(591599)	17.4	224.41172	55.65176	91.32209	14.05420	0.2057587	2.6869525643019
(591600)	17.4	23.05154	210.58027	102.81303	12.86039	0.1326555	2.7560104643019
(591601)	17.6	240.40271	335.43139	108.97709	4.83462	0.0665673	2.7975704643020

(591602)	16.3	205.95304	200.92596	307.81785	8.61167	0.1441187	2.7684954643020
(591603)	17.2	137.14074	240.25708	307.98175	11.88109	0.1860168	2.9218322643020
(591604)	17.0	126.87720	313.37378	272.66257	17.43127	0.1312117	2.6529429643021
(591605)	17.1	332.91540	234.22974	134.76650	9.67042	0.1534137	2.7076328643021
(591606)	17.4	332.48558	59.83554	321.31140	5.28758	0.0413965	2.7043066643021
(591607)	17.4	319.64412	90.29641	299.97286	5.26100	0.0410718	2.7317928643022
(591608)	17.7	243.01563	135.83741	310.77902	4.02026	0.0823623	2.7819988643022
(591609)	17.5	303.65801	102.90412	310.37622	3.87065	0.0414633	2.6965542643022
(591610)	17.4	207.46908	57.43607	106.76457	14.04817	0.1153758	2.6894419643023
(591611)	16.6	15.96765	269.56808	108.60236	11.48747	0.0500637	2.6266181643023
(591612)	17.4	226.74679	268.13873	218.21467	11.13513	0.2552660	2.6913998643023
(591613)	17.8	243.21835	164.99691	302.95422	5.08866	0.0975768	2.7412583643024
(591614)	17.1	296.28320	305.46140	117.35500	12.47862	0.0767766	2.7195460643024
(591615)	16.1	151.37665	145.54404	96.74989	16.02532	0.0976878	2.6307085643024
(591616)	17.7	343.51269	276.47130	102.79098	14.50323	0.1848564	2.6291080643025
(591617)	17.8	345.07264	341.92774	20.89096	6.50972	0.2235274	2.6405667643025
(591618)	17.5	214.48638	113.06490	16.01632	5.09271	0.0599217	2.7024392643025
(591619)	17.3	281.34535	310.13209	115.34550	6.25091	0.0562442	2.7119513643026
(591620)	17.3	286.70443	307.99454	108.41746	12.80575	0.1921043	2.6943286643026
(591621)	17.2	281.51228	300.38512	137.84033	14.08744	0.1508384	2.6273598643026
(591622)	17.8	208.89456	144.65073	358.48956	4.86704	0.0971445	2.7288027643027
(591623)	17.3	308.93153	100.78451	306.63292	3.96751	0.1147376	2.6995712643027
(591624)	17.4	202.58924	225.75634	330.73381	2.09868	0.1044712	2.6439870643027
(591625)	16.4	102.17711	303.99370	315.56122	13.98145	0.1098155	2.7759834643028
(591626)	17.6	236.46692	3.86022	116.37833	14.33712	0.1210931	2.7007595643028
(591627)	18.1	274.07561	220.92181	239.91294	2.02450	0.1787040	2.6377936643028
(591628)	17.7	244.47641	319.75425	125.24331	4.07231	0.0597448	2.7779980643029
(591629)	18.1	256.83649	315.77604	122.28319	9.36405	0.1908478	2.7389976643029
(591630)	17.8	312.45397	334.46412	108.13281	10.55073	0.1464826	2.6085738643029
(591631)	17.1	327.80642	281.11575	112.65115	6.92192	0.0412878	2.7270863643029
(591632)	17.3	25.22675	176.65691	146.07449	6.90283	0.0501531	2.7236728643030
(591633)	17.0	39.06036	243.08593	63.64997	10.67252	0.1223005	2.7246476643030
(591634)	16.9	19.08841	256.64547	69.68987	12.64899	0.1215018	2.7049871643031
(591635)	17.0	224.40536	42.07283	74.24899	14.19721	0.0786259	2.7587588643031
(591636)	17.1	272.10247	343.11028	85.63618	15.09330	0.1505958	2.6811707643031
(591637)	16.6	160.38817	130.33761	318.03875	8.89929	0.1137237	3.0450361643032
(591638)	17.1	192.47332	78.05240	71.29700	12.72430	0.1895695	2.7782195643032
(591639)	17.1	294.15148	233.48623	237.41857	6.59618	0.1398438	2.5769478643032
(591640)	17.2	333.38237	182.78232	209.89288	4.54302	0.2335921	2.5733577643033
(591641)	16.8	296.55243	195.39084	271.51190	13.45254	0.1257497	2.5822078643033
(591642)	17.1	287.43935	346.18178	93.12644	13.29225	0.0925707	2.6716253643033
(591643)	17.1	322.23317	78.31264	310.75594	13.91258	0.1141815	2.7078593643034
(591644)	17.4	338.81814	287.01213	96.05993	13.76630	0.1981106	2.6331971643034
(591645)	17.2	334.21104	44.57155	337.45221	2.72021	0.1301647	2.5972365643034
(591646)	17.7	267.89746	347.21820	86.79050	9.84184	0.1227960	2.7301240643035
(591647)	17.2	216.25017	26.61834	85.66809	14.72424	0.1364463	2.7320913643035
(591648)	17.3	309.29827	350.32850	77.92711	6.48442	0.0817714	2.5496099643035
(591649)	16.6	25.05606	265.48502	91.93471	15.54677	0.1650166	2.5879246643036
(591650)	17.3	37.65181	286.80980	332.41504	8.47916	0.0607684	2.8866124643036
(591651)	17.4	203.36753	357.04202	137.66708	17.16718	0.0355526	2.8109275643036
(591652)	17.4	288.86965	307.35604	103.47894	6.37628	0.0923513	2.7886396643037
(591653)	17.7	338.73576	20.01082	40.80684	5.71714	0.1923518	2.5514123643037
(591654)	16.9	288.63030	321.04217	94.24707	15.70647	0.1793248	2.7348877643037
(591655)	17.5	230.45179	329.06562	124.02665	6.77903	0.0260208	2.8435792643038
(591656)	17.7	263.28032	295.55217	146.15581	4.34142	0.0683542	2.7794657643038
(591657)	17.6	212.25072	27.49938	135.20007	15.77344	0.1754233	2.7277480643038
(591658)	16.6	344.43697	234.65644	138.29348	14.14813	0.1870052	2.7082100643038
(591659)	17.0	282.44288	135.10346	320.86807	16.83638	0.0745731	2.6715183643039
(591660)	17.6	219.67226	348.93797	132.91718	10.55042	0.1911943	2.7309245643039
(591661)	17.2	2.45924	220.37450	112.53860	4.32489	0.0972980	2.7668251643039
(591662)	18.3	291.83446	56.99155	18.80108	1.48950	0.2929457	2.6348356643040
(591663)	17.5	166.83507	56.06728	122.73188	11.12759	0.1165651	2.8006582643040
(591664)	17.6	359.75086	227.58071	120.62428	5.66042	0.0251965	2.7355323643040
(591665)	16.9	58.92277	342.35331	316.74135	2.65417	0.0741681	2.7589007643041
(591666)	16.7	39.28867	234.58879	89.25320	15.17573	0.2054277	2.6341014643041
(591667)	17.6	244.86739	332.07711	146.15587	6.48808	0.0621986	2.7300806643041
(591668)	18.4	149.38038	255.59337	213.74427	0.96884	0.2001796	2.1456666643042
(591669)	17.4	208.50599	339.68728	128.92985	2.97047	0.0229410	2.8513903643042
(591670)	17.2	208.52297	351.31511	136.41835	6.32733	0.1218454	2.7812828643043
(591671)	16.9	160.99651	214.43397	338.07044	4.88503	0.0102927	2.7858737643043
(591672)	17.2	111.15514	76.35266	119.42562	4.11785	0.1157635	2.9907186643043
(591673)	17.7	339.64057	289.47726	67.90834	5.78096	0.0642730	2.7623034643044
(591674)	17.4	308.64018	257.32605	156.37381	3.79455	0.0911454	2.7440767643044
(591675)	17.3	75.13538	229.60206	48.77481	5.93435	0.0062661	2.7155986643044
(591676)	16.8	319.59628	224.99778	96.16392	10.96208	0.0747282	2.9636685643045
(591677)	17.2	304.28758	11.08347	79.56364	8.31438	0.1870722	2.6009610643045
(591678)	16.9	90.98847	73.10075	133.98253	17.45312	0.1921452	3.1058826643045
(591679)	17.2	266.12490	106.22241	0.21764	2.88075	0.0374973	2.7349538643046
(591680)	18.2	267.26461	249.38032	220.21762	5.79132	0.1881730	2.6790030643046
(591681)	17.6	289.78191	206.31270	224.87475	7.39206	0.1009078	2.7309287643046
(591682)	16.9	79.19349	105.06785	131.67985	12.83998	0.2645179	3.0299072643046
(591683)	14.6	308.42744	105.41199	331.96568	8.25104	0.0368139	5.2354472643047
(591684)	17.5	208.06422	347.34316	162.86611	13.94579	0.0287229	2.7693860643047
(591685)	17.4	257.01515	123.06857	347.45672	12.05539	0.1257782	2.7288148643047
(591686)	16.7	36.72165	335.82802	350.26210	2.86899	0.0810848	2.7389602643048
(591687)	17.7	257.31939	297.96135	146.60740	8.26032	0.1958676	2.7726423643048
(591688)	17.4	248.11259	85.27500	2.46321	3.79202	0.0678533	2.8169594643048
(591689)	17.8	252.07067	96.78817	2.89507	7.26560	0.2471213	2.7520298643049
(591690)	17.2	266.05003	153.61616	10.04706	4.99209	0.1101142	2.6249772643049
(591691)	16.2	293.76602	293.66233	165.63803	13.23253	0.1431213	2.6581597643050
(591692)	14.1	308.22925	288.36572	159.66822	14.74751	0.0891791	5.1830822643050
(591693)	14.3	271.90880	284.16329	179.85373	17.50833	0.0573066	5.1592888643051
(591694)	17.6	97.17392	331.73191	320.22702	3.67150	0.0739430	2.6788675643051
(591695)	16.5	109.33534	29.57123	147.56915	14.68080	0.2214945	3.0934730643051
(591696)	17.2	28.43340	240.93226	59.60458	3.05104	0.0302496	2.8574184643052
(591697)	16.5	280.54696	301.90590	171.18236	21.86754	0.1213022	2.6667059643052
(591698)	16.9	266.68791	55.86713	56.36236	6.04519	0.0738591	2.7390187643053
(591699)	17.8	2.43604	356.30417	110.76326	6.24823	0.1791022	2.3867819643053
(591700)	15.9	252.62177	83.43176	311.29638	10.27804	0.0916218	3.0176148643054
(591701)	17.1	346.77337	268.53668	127.92343	7.09800	0.0964089	2.6857014643054
(591702)	18.2	87.08910	293.87071	152.46846	4.11606	0.0654928	2.3095365643055
(591703)	17.0	87.80042	165.78898	15.74965	6.15886	0.1871845	3.1925079643055
(591704)	17.4	261.13339	351.17022	99.06446	5.40651	0.0677833	2.8199417643055
(591705)	16.7	145.68376	47.11837	119.12467	2.81347	0.1051150	2.9954915643056

(591706)	17.3	259.55561	23.67226	43.05818	2.68747	0.0375089	2.9275107643056
(591707)	16.6	36.33280	272.32319	337.74531	9.23993	0.0496700	3.0215302643056
(591708)	17.8	321.12618	353.49842	152.21522	2.65861	0.1664249	2.4757841643057
(591709)	17.2	251.18355	45.36939	52.61240	5.76327	0.1278279	2.8096119643057
(591710)	17.7	322.61762	290.19071	128.88848	7.95626	0.2070460	2.6727613643057
(591711)	17.8	291.24210	286.53169	180.22254	9.44158	0.2554548	2.6541492643058
(591712)	16.6	50.60004	281.40775	3.03180	10.45396	0.1128515	3.0204871643058
(591713)	14.3	287.27169	65.39967	29.12565	7.54363	0.0844504	5.2852826643058
(591714)	14.4	300.52669	94.54230	357.45079	20.18895	0.0405309	5.2557348643059
(591715)	16.8	324.60252	259.38605	123.94807	3.04062	0.0760723	2.8955518643059
(591716)	17.2	42.51837	204.95247	106.79541	3.86632	0.0805372	2.9013737643059
(591717)	17.5	265.37346	351.86224	117.42013	4.50767	0.2298142	2.7321004643059
(591718)	17.1	101.85893	57.33773	155.10613	11.14816	0.0555197	3.0524127643060
(591719)	16.8	290.52666	315.26676	36.57932	9.30149	0.0738665	3.1654678643060
(591720)	17.5	7.09822	358.50679	51.19870	6.93352	0.1055452	2.6412185643060
(591721)	17.3	112.84229	34.04177	160.89437	5.39989	0.1055129	3.0885715643061
(591722)	16.9	78.39429	172.22339	59.06301	1.95209	0.1154986	3.1111430643061
(591723)	14.7	299.38437	284.69922	173.24901	26.09616	0.1101462	5.1413953643061
(591724)	17.4	309.42590	284.78983	161.64854	12.98122	0.2310353	2.6722140643062
(591725)	17.2	145.27115	20.83981	146.35768	10.25748	0.0719765	3.0528971643062
(591726)	17.1	5.66070	279.56820	108.59831	7.52692	0.1589590	2.7271845643062
(591727)	16.4	269.42355	267.70972	93.25213	4.03864	0.0661193	3.2491896643062
(591728)	17.6	263.40941	276.99807	144.93559	2.45290	0.0091648	2.9485575643063
(591729)	16.8	215.59758	277.39742	152.64739	10.94207	0.1020768	2.9845329643063
(591730)	14.7	285.90829	123.04778	317.42473	5.70836	0.0462036	5.1148965643064
(591731)	17.2	117.06744	39.52828	161.26994	4.32167	0.0534419	3.0058976643064
(591732)	17.1	163.61443	20.21050	134.73984	10.96716	0.0507607	2.9963362643064
(591733)	14.4	302.54811	92.20815	343.64631	7.95508	0.1033098	5.1842498643064
(591734)	16.9	49.89827	282.40824	328.03324	8.78722	0.2078141	3.1615853643065
(591735)	17.5	267.20883	4.27830	107.37338	2.90392	0.1941303	2.7234652643065
(591736)	14.4	299.97398	281.51758	154.76773	6.80553	0.1501298	5.2071437643065
(591737)	17.0	61.88402	90.84658	184.58694	6.41724	0.1452868	2.9735229643066
(591738)	14.8	262.15487	90.11582	34.81995	4.51136	0.0708017	5.1868645643066
(591739)	17.0	0.21621	251.35861	102.79914	3.39185	0.0702986	2.8626917643067
(591740)	16.8	342.63458	233.88802	163.38620	7.38827	0.0365387	2.7628163643067
(591741)	13.8	303.07898	77.54915	9.93834	11.32621	0.0582175	5.1791559643067
(591742)	17.9	83.16793	259.75779	120.37940	7.68430	0.3632758	2.2667554643068
(591743)	17.4	163.76768	41.54792	111.25221	2.57931	0.0009141	3.0317911643069
(591744)	17.6	275.75546	80.22490	19.07483	7.53788	0.1922937	2.7263641643069
(591745)	16.8	30.62123	228.92707	78.17234	9.06071	0.0690629	2.9452877643069
(591746)	17.0	305.58865	127.65351	291.73067	3.35693	0.0984347	2.8130541643069
(591747)	17.1	61.50086	131.10739	139.32110	10.87568	0.0743137	3.0290206643070
(591748)	16.8	31.67738	142.30435	179.18161	11.69701	0.0269946	2.9394941643070
(591749)	17.4	146.18019	32.22323	133.80048	10.92167	0.0751677	2.9806811643070
(591750)	17.1	36.31119	177.49864	106.96387	15.06579	0.1197387	3.0125072643071
(591751)	17.1	38.60892	136.22211	136.62776	10.11073	0.0903721	3.0907282643071
(591752)	17.3	141.58871	18.07656	163.02650	6.03955	0.0615459	2.9903127643071
(591753)	17.0	35.83469	153.29297	149.04878	11.10286	0.1244304	3.0627099643071
(591754)	14.6	339.78671	296.33261	104.54815	11.94256	0.0687920	5.2242151643072
(591755)	16.6	211.08485	254.66196	148.08802	19.06372	0.0967216	3.1608417643072
(591756)	14.2	13.70211	10.94827	6.82853	39.05020	0.0128355	5.0955279643072
(591757)	14.3	297.37564	263.04197	184.65557	31.95906	0.0802215	5.2310220643072
(591758)	17.2	76.75231	175.72902	100.33575	3.15480	0.0548729	2.9513659643073
(591759)	16.3	354.61609	232.83383	150.52746	9.53921	0.0981038	2.7599512643073
(591760)	14.0	261.10366	27.02683	92.24916	16.57059	0.0735794	5.2708046643073
(591761)	14.1	224.63045	19.66537	142.03805	14.60435	0.0524433	5.2625984643074
(591762)	14.0	286.15727	21.09808	73.48452	17.26077	0.0832144	5.2306492643074
(591763)	17.1	275.35465	113.44625	352.05965	12.13555	0.1549929	2.6930070643074
(591764)	17.0	76.32190	90.05974	157.88606	8.17653	0.0844318	3.0132053643075
(591765)	14.2	279.42381	101.95750	356.64600	29.05648	0.0972017	5.2607895643075
(591766)	17.0	29.57701	209.35565	116.31697	3.19397	0.0670579	2.8678708643075
(591767)	16.7	335.44242	327.48808	131.19366	5.08937	0.0584994	2.5604810643076
(591768)	14.3	280.30470	122.06485	339.47368	30.65139	0.0702666	5.2240261643076
(591769)	17.9	344.35203	168.29752	270.16864	3.07948	0.1655484	2.5823387643077
(591770)	14.6	242.23892	300.42762	202.95411	6.41292	0.0789397	5.2049282643077
(591771)	14.2	115.14261	132.65928	147.37485	17.41462	0.0680525	5.2159543643077
(591772)	16.6	13.38188	312.16435	79.00729	6.85666	0.0395825	2.7080666643078
(591773)	16.6	345.82194	302.72517	60.19635	10.74726	0.0784913	2.9216887643078
(591774)	16.5	107.67150	70.40240	146.30083	16.14831	0.1931398	3.0759214643078
(591775)	16.5	97.11681	210.25391	3.22259	13.82966	0.1228891	3.0542500643079
(591776)	17.9	247.93990	84.11999	127.58480	13.95595	0.2005822	2.6025479643079
(591777)	16.7	116.69753	54.54582	131.91671	11.49342	0.0808730	3.0630436643079
(591778)	16.6	122.48857	36.32918	142.41644	14.41742	0.1859761	3.1123547643080
(591779)	14.7	34.35601	132.43246	218.49610	12.29057	0.0651657	5.1999723643080
(591780)	13.9	6.90011	197.16598	178.78060	27.24777	0.0683459	5.1516198643080
(591781)	14.6	322.74170	116.98423	304.95543	8.39217	0.0422854	5.2444856643081
(591782)	14.5	286.28213	233.29461	228.63455	8.07603	0.0653582	5.1817513643081
(591783)	14.4	353.16344	93.57417	304.21515	7.51633	0.0308730	5.2279165643082
(591784)	17.1	324.97960	109.02163	282.38701	5.23087	0.0729301	2.8398096643082
(591785)	17.1	87.27211	17.39000	281.90255	6.98816	0.0577369	2.7515528643082
(591786)	17.1	253.05629	223.61215	251.89172	4.18822	0.0196656	2.7883323643082
(591787)	16.8	57.40391	310.46925	326.17994	10.09212	0.0837223	2.9626478643083
(591788)	14.6	349.63781	143.33368	259.61567	6.17979	0.0850053	5.1291780643083
(591789)	14.2	19.13319	62.87001	303.73317	8.81780	0.0758254	5.2313336643084
(591790)	17.3	313.44879	163.21795	258.46733	5.35163	0.0435402	2.7706363643084
(591791)	17.4	358.33784	108.66586	265.44202	3.29068	0.0840001	2.7927324643084
(591792)	14.0	349.50727	103.11756	295.03283	7.50522	0.0574593	5.2314187643085
(591793)	17.8	202.42985	322.61034	213.51291	3.54974	0.0409427	2.7757403643085
(591794)	17.4	281.46323	128.40702	314.22708	4.05503	0.0424724	2.8069343643085
(591795)	17.0	192.92576	215.88796	279.93045	9.61307	0.0822231	2.9076443643086
(591796)	17.4	122.64730	340.55783	199.30112	15.09533	0.1195610	3.0517875643086
(591797)	17.3	121.03346	339.21027	201.35942	8.78340	0.0515782	3.0205181643086
(591798)	16.7	330.64331	115.46167	298.91639	10.61100	0.0474124	2.7239445643086
(591799)	14.6	276.56024	264.00145	200.02687	8.51660	0.0848316	5.1917847643087
(591800)	17.1	62.18001	43.39095	267.55875	4.09140	0.0348132	2.8091909643087
(591801)	17.3	73.02273	42.75525	217.70579	9.79894	0.0773126	2.9223284643087
(591802)	17.7	296.07581	219.38577	245.04399	5.62803	0.0513931	2.6906482643088
(591803)	16.7	215.46811	256.17814	266.27684	8.70880	0.0609059	2.7600140643088
(591804)	17.2	39.07396	3.45894	272.15360	8.32228	0.1131190	3.0383462643088
(591805)	14.5	205.90151	292.64436	245.79191	6.58776	0.0205918	5.1288802643089
(591806)	16.7	77.13615	7.91309	290.96800	8.56568	0.1315077	2.8129907643089
(591807)	17.4	335.94032	124.71606	273.71007	5.20537	0.0380000	2.7724457643089
(591808)	17.1	312.38632	98.99094	304.89969	7.80122	0.1648145	2.8045183643090
(591809)	18.2	293.04420	169.88926	246.36247	5.39034	0.2084881	2.7617239643090

(591810)	17.6	18.48694	82.90701	230.68641	7.46598	0.2089681	2.9654336643090
(591811)	17.3	274.43995	247.35426	197.03079	12.79756	0.1428210	2.7785725643091
(591812)	14.5	324.09347	78.94893	335.50089	9.59514	0.0964446	5.2196032643091
(591813)	16.8	273.89228	197.54986	189.21080	8.49884	0.1099297	3.0254233643091
(591814)	16.8	53.05663	59.09225	249.27839	3.40256	0.1145793	2.8726684643091
(591815)	18.2	174.53515	147.90078	216.34042	4.18801	0.2177227	2.3474314643092
(591816)	18.0	251.73086	281.77924	186.71845	15.37527	0.1685594	2.7581741643092
(591817)	14.3	309.00241	157.87559	267.60157	7.22462	0.0450510	5.1814897643092
(591818)	17.2	96.02470	35.32706	191.76210	9.94263	0.0417949	2.9724359643093
(591819)	17.0	99.16288	339.08693	234.68284	9.03005	0.0611984	3.0077247643093
(591820)	17.2	45.16402	99.15070	180.07023	18.20336	0.2277829	3.0675093643093
(591821)	16.4	125.62996	115.39030	69.79344	17.57664	0.1620068	3.0992836643094
(591822)	16.9	107.74434	251.85632	338.92430	5.13652	0.2810595	3.0659062643094
(591823)	16.7	106.88954	148.99316	61.54815	14.62709	0.1675980	3.0895467643094
(591824)	17.5	205.85072	308.23662	157.90813	10.09250	0.0080222	2.9846888643094
(591825)	17.8	258.21157	127.26498	74.62021	5.00039	0.0550754	2.5156919643095
(591826)	13.6	301.42172	342.62226	100.87915	14.70778	0.0831213	5.2637181643095
(591827)	13.8	266.87633	45.74184	75.25562	17.57688	0.0858232	5.2400973643095
(591828)	13.3	306.57871	328.05248	114.96251	12.35228	0.1148299	5.1315978643096
(591829)	17.1	21.41963	139.27539	210.53137	5.42356	0.0283767	2.7303090643096
(591830)	17.1	308.65012	345.15153	111.39827	14.14926	0.1306676	2.6637099643096
(591831)	14.3	327.09840	43.13019	20.22946	37.61043	0.0395650	5.1569524643097
(591832)	16.0	108.31790	85.63556	125.57773	26.21836	0.2778925	3.0870742643097
(591833)	16.9	148.11300	255.24472	314.87298	6.29634	0.0179701	2.8620990643098
(591834)	16.8	105.56779	279.82369	303.39003	8.70073	0.2470268	3.0343753643098
(591835)	16.5	55.81741	65.39337	222.28911	5.84830	0.1087663	2.9603127643098
(591836)	16.8	354.99711	169.49237	199.06008	10.30536	0.0814875	2.8324631643098
(591837)	16.7	344.24094	257.53690	149.91789	11.90872	0.1926493	2.6865332643099
(591838)	14.2	15.78095	254.26347	121.58017	16.51841	0.1270424	5.2172609643099
(591839)	14.5	223.15392	136.52224	36.15701	10.77120	0.0420391	5.1372308643099
(591840)	16.8	63.57394	149.12953	100.83268	18.63696	0.1620833	3.1530299643100
(591841)	17.6	264.70299	50.00955	67.07983	4.59631	0.1662241	2.7479837643100
(591842)	17.0	95.97040	47.68946	159.77214	18.06979	0.2626226	3.0702469643100
(591843)	16.8	111.97884	273.13113	333.40538	5.26647	0.0114599	2.7818822643101
(591844)	17.3	94.66053	102.13084	108.90339	10.01751	0.0705325	3.0830196643101
(591845)	16.4	100.80608	78.55194	141.55178	6.32555	0.2009083	3.0751766643101
(591846)	16.9	189.16270	123.06631	38.20228	12.12452	0.0579771	2.9307175643102
(591847)	16.5	336.51570	354.68903	25.63976	15.78239	0.1428419	2.8768175643102
(591848)	16.8	66.20809	180.80071	64.25932	11.75906	0.1486498	3.1694498643102
(591849)	17.6	224.99252	90.28719	4.52469	1.22299	0.1796895	2.9790752643103
(591850)	13.9	271.77657	123.86305	11.01326	30.03949	0.0626287	5.1961776643103
(591851)	18.2	19.34728	317.95493	348.99460	2.97695	0.1865044	2.1373582643104
(591852)	16.5	34.50398	309.93121	3.89924	10.00324	0.1044957	2.9723785643104
(591853)	13.7	354.75765	39.56900	345.68683	30.83802	0.0460950	5.1982766643105
(591854)	18.1	328.32817	63.53157	144.53643	1.59747	0.1344263	2.3998213643105
(591855)	13.9	357.69415	41.42123	354.90612	6.85307	0.0747700	5.3069169643105
(591856)	17.1	86.92909	97.63208	122.15274	4.15910	0.1325707	3.1525565643106
(591857)	17.2	60.14342	116.79515	157.19490	7.76704	0.1208695	3.0632028643106
(591858)	17.1	83.30720	116.65206	144.57086	2.78284	0.1078508	2.9996359643106
(591859)	16.1	7.90450	306.40760	35.07491	17.49687	0.2341401	3.0792978643107
(591860)	17.3	60.16945	161.08288	105.83914	2.67983	0.1868359	3.1215300643107
(591861)	16.7	184.34710	302.03714	213.13410	8.62309	0.1776834	2.9854742643107
(591862)	17.1	118.15423	347.21226	237.14937	2.79142	0.0725406	2.9942943643108
(591863)	17.1	91.28766	22.11383	310.81042	4.85351	0.0551658	2.7151497643108
(591864)	17.0	305.21678	169.91221	266.97440	4.21413	0.0688946	2.8093414643108
(591865)	16.7	40.96079	57.29181	226.93799	10.43944	0.0843301	3.0806425643109
(591866)	16.7	104.35599	216.85848	10.65819	16.74412	0.0513513	3.0399885643109
(591867)	18.8	42.77921	340.13561	300.51681	2.76651	0.1940567	2.1555086643109
(591868)	17.8	318.32525	277.85483	202.65343	2.65066	0.2239795	2.6070544643110
(591869)	17.4	338.51043	264.48595	192.76698	5.80045	0.0908803	2.6635249643110
(591870)	16.4	13.56821	180.99099	133.40232	11.74553	0.0741394	3.1506935643110
(591871)	16.9	127.30517	223.32026	11.95764	1.39336	0.0750344	2.9918288643111
(591872)	16.2	81.94746	155.52944	91.75247	16.88069	0.2181888	3.1244205643111
(591873)	17.6	261.10455	311.73002	166.57522	9.20257	0.1858516	2.6974167643111
(591874)	18.8	32.12817	148.97783	110.09022	5.15101	0.1029193	2.1854734643112
(591875)	15.1	65.59188	208.59649	77.98321	18.68262	0.1791629	3.0897671643112
(591876)	16.8	320.39199	248.35719	200.64759	9.58205	0.0836552	2.7717257643113
(591877)	16.6	49.81281	88.10736	207.49980	25.61206	0.2512409	3.1709910643113
(591878)	14.8	314.46399	75.75355	4.50385	7.03040	0.0719390	5.2608400643114
(591879)	16.6	91.52583	223.57928	10.70494	7.02996	0.1280224	3.0744167643114
(591880)	16.4	352.17762	215.10394	132.61557	10.09904	0.1155791	3.0845446643114
(591881)	17.3	203.82943	269.56590	289.16908	7.38235	0.0910166	2.7607248643115
(591882)	16.6	54.77634	225.91225	56.14840	1.89803	0.1587986	3.1544258643115
(591883)	17.8	299.81201	319.28939	259.15147	5.56919	0.0657392	2.4621971643115
(591884)	16.0	41.70037	234.81308	55.91269	18.27550	0.2079242	3.1188112643116
(591885)	16.5	300.55672	334.08998	66.83907	16.86520	0.0973830	2.9839882643116
(591886)	18.9	70.69798	293.97424	329.24795	3.19195	0.1387371	2.1457023643116
(591887)	16.7	30.15880	83.38429	218.46651	9.93899	0.1011090	3.1592713643116
(591888)	17.0	98.71323	244.56334	5.06184	9.37347	0.1344862	3.0061001643117
(591889)	17.3	119.16707	168.69854	69.06039	11.77644	0.0547295	2.9760962643117
(591890)	16.9	29.69559	103.29088	191.48260	20.85764	0.2263946	3.1620239643117
(591891)	16.9	83.12126	77.99724	142.32481	16.88588	0.2140154	3.1983518643117
(591892)	16.6	16.18394	299.91149	4.41434	9.18478	0.1674634	3.1186719643118
(591893)	16.9	296.19377	303.23970	100.78356	17.37927	0.0446615	3.0465124643118
(591894)	17.8	168.92262	228.24233	7.09955	9.13810	0.0979496	2.7671966643118
(591895)	18.6	35.31071	347.37079	151.00220	2.31516	0.1202083	2.3826231643119
(591896)	17.0	26.37604	195.24571	106.96912	2.45375	0.1793522	3.2086164643119
(591897)	17.4	140.47803	161.18500	44.64678	1.85133	0.0830562	3.0113798643119
(591898)	16.8	79.83110	259.77062	24.97683	10.60375	0.0914225	2.9701633643120
(591899)	16.4	32.66967	281.79978	18.43286	8.95680	0.0416342	3.0826036643120
(591900)	17.2	133.49915	33.01788	146.31004	5.66587	0.0998585	3.1593999643120
(591901)	17.3	46.52283	152.73912	174.13506	11.07665	0.0744066	2.9688602643121
(591902)	17.2	29.37871	197.01049	108.23141	6.04222	0.1569186	3.1744537643121
(591903)	18.1	185.03973	210.29734	112.13591	4.43516	0.1155362	2.5492530643121
(591904)	16.8	27.62407	107.04787	204.17709	8.98165	0.0984832	3.1092936643122
(591905)	16.8	113.12831	200.59403	35.25566	2.93444	0.0715421	3.0622722643122
(591906)	17.4	180.33037	107.01624	66.95941	2.36566	0.0368892	2.9621657643122
(591907)	17.5	292.29732	33.90066	41.39464	6.41522	0.0557991	2.9032420643123
(591908)	17.3	86.63702	115.24250	120.48653	1.35053	0.1119913	3.1264854643123
(591909)	17.2	35.17159	236.90616	68.78289	2.19842	0.1560337	3.0969533643123
(591910)	17.4	285.61810	13.40575	82.56985	3.18063	0.0177176	2.8600889643123
(591911)	16.9	31.86416	162.00415	121.02298	3.37722	0.0333844	3.1624125643124
(591912)	16.8	357.63544	299.72836	32.76444	14.86331	0.2032816	3.1679115643124
(591913)	17.0	330.69878	316.41661	53.32604	10.48464	0.0357230	3.0465889643124

(591914)	17.8	344.35919	41.19812	52.92451	13.64301	0.1018689	2.6575764643125
(591915)	17.1	51.40547	121.93821	178.27729	9.78710	0.0150883	3.0143538643125
(591916)	17.2	246.67115	265.85525	182.21902	9.66983	0.0717050	3.0495040643125
(591917)	16.8	270.60114	248.04155	183.39556	7.84087	0.0987225	3.0170826643125
(591918)	16.6	36.15867	236.97615	61.89037	10.33680	0.0653833	3.1139088643126
(591919)	18.6	45.53842	182.92712	81.46101	5.23106	0.1660559	2.1884022643126
(591920)	16.3	167.14573	302.91050	210.66570	15.39427	0.1011396	3.0766496643126
(591921)	16.5	36.50871	218.34015	89.30267	2.27423	0.1943662	3.1232755643127
(591922)	18.9	135.40312	114.94368	38.21559	3.34081	0.0488637	2.1910239643127
(591923)	17.9	152.78610	256.04905	67.74739	7.13463	0.1155270	2.6250003643127
(591924)	16.6	2.57187	284.98329	53.18838	11.16696	0.0716949	3.0750999643128
(591925)	17.6	42.53221	298.89435	82.73772	3.04615	0.0839794	2.7491837643128
(591926)	19.0	32.61788	267.98784	29.02761	2.84298	0.1450452	2.1559397643128
(591927)	17.0	145.15859	309.52460	224.52802	9.22713	0.0506118	3.1570416643129
(591928)	16.4	35.79674	163.96999	149.49382	9.98622	0.1265902	3.0087073643129
(591929)	16.7	352.83515	330.26352	28.30777	8.80838	0.0726271	3.0688785643129
(591930)	17.3	38.11716	302.85860	74.32972	7.45693	0.0517360	2.7858629643130
(591931)	16.2	214.84043	34.15055	78.90764	11.98543	0.0244833	3.1077750643130
(591932)	16.8	259.12265	10.42875	66.93369	12.97032	0.0124224	3.0539040643130
(591933)	17.1	269.09987	127.43609	336.07819	7.22063	0.1784333	2.7774105643131
(591934)	19.1	138.53773	226.26449	308.55694	3.48855	0.0578073	2.1239019643131
(591935)	17.1	107.63340	88.09522	128.40087	9.60365	0.1288998	3.0937560643131
(591936)	16.9	132.61893	132.35250	66.90362	18.68948	0.1674502	3.0867360643131
(591937)	16.3	100.96120	126.99332	84.35025	11.10727	0.1595590	3.1589551643132
(591938)	16.9	231.06083	230.69838	250.55166	8.97241	0.0730327	2.9694611643132
(591939)	16.5	38.86612	212.26014	81.53336	6.05494	0.0538920	3.0438005643132
(591940)	16.8	26.04722	173.77588	121.32262	5.29526	0.1010221	3.1097947643133
(591941)	16.2	0.41694	268.46783	103.12451	9.66858	0.1313896	3.0245521643133
(591942)	16.7	169.94120	331.50573	199.34779	4.46789	0.1125613	3.0759165643133
(591943)	16.7	294.76225	253.58836	151.00587	9.77828	0.1034362	3.0925218643134
(591944)	17.1	172.56037	115.02576	57.20974	9.79059	0.0743997	3.0595255643134
(591945)	16.9	36.54027	219.53182	102.22075	9.90782	0.0503871	3.0386397643134
(591946)	17.1	28.26341	190.85949	98.68420	11.17642	0.0562330	3.2031188643135
(591947)	17.3	43.41591	62.23072	282.40555	4.65879	0.1060349	2.9301707643135
(591948)	17.0	112.70357	1.90624	181.51594	11.70571	0.0882415	3.2386081643135
(591949)	17.0	234.87658	247.72843	209.87495	9.11188	0.0507669	3.1155852643135
(591950)	16.6	72.01512	105.71862	210.99675	9.54893	0.1204365	2.9643462643136
(591951)	18.0	63.34799	263.55586	156.94172	3.22438	0.0778562	2.5979281643136
(591952)	16.7	99.79212	46.33584	191.27427	15.58401	0.0945105	3.0403530643137
(591953)	16.6	65.90726	120.76049	146.50160	6.81782	0.1876567	3.1357000643137
(591954)	16.9	42.00527	151.67242	134.46538	5.99157	0.1537881	3.1530075643137
(591955)	16.6	58.62215	138.10231	147.20256	17.14948	0.2472449	3.1543444643138
(591956)	16.1	38.24220	101.06027	208.91800	11.04090	0.1374646	3.1540403643138
(591957)	17.8	218.31905	217.28644	84.29886	3.29363	0.1700972	2.5272617643139
(591958)	17.0	80.99196	66.37005	187.68475	1.10177	0.1538261	3.1498978643139
(591959)	16.5	84.00767	205.11966	69.84687	18.53493	0.1070782	3.0684154643139
(591960)	16.5	20.09740	291.84870	60.83541	10.24114	0.0838645	3.0223459643140
(591961)	16.1	358.95462	145.38827	221.56764	10.69657	0.1459309	3.0166990643140
(591962)	16.8	2.27008	181.29950	197.65095	8.98936	0.0938681	3.0412852643141
(591963)	16.6	162.84583	317.55240	233.89693	8.90119	0.0441668	3.0008334643141
(591964)	16.6	107.16568	212.84582	34.69286	13.38071	0.1651572	3.0613041643142
(591965)	15.8	42.12213	193.89726	118.78946	11.71562	0.0795056	3.1167042643142
(591966)	16.2	9.67549	246.29360	87.79198	19.56611	0.2906049	3.1568688643142
(591967)	16.7	104.99831	1.12333	238.81291	16.81339	0.1823228	3.1262493643143
(591968)	16.6	325.40761	282.14566	89.18407	16.58983	0.0179241	3.1806677643143
(591969)	16.2	94.21122	351.85295	252.33123	15.27854	0.0654328	3.1491902643143
(591970)	16.8	145.94377	342.11384	181.21495	15.10462	0.1870590	3.2166667643144
(591971)	16.6	129.86772	139.12986	63.54373	16.76591	0.1906464	3.1410691643144
(591972)	17.2	64.12393	254.14814	54.28689	11.17023	0.1028026	2.9778068643144
(591973)	17.3	136.40279	177.22978	131.00533	5.11224	0.0922594	2.7839713643144
(591974)	16.2	22.63474	292.10102	42.03632	18.70469	0.2275806	3.1797611643145
(591975)	17.1	55.29761	133.47186	154.39975	8.70210	0.0473877	3.1990027643145
(591976)	17.1	20.56630	182.81587	150.78976	11.60868	0.1034314	3.0717622643145
(591977)	17.0	111.87007	357.31380	209.57353	18.83086	0.1601407	3.1383116643145
(591978)	18.2	204.49914	122.90360	185.94186	3.08808	0.2389038	2.5677137643146
(591979)	17.3	327.75266	10.58278	63.84639	6.28876	0.0251095	2.8140301643146
(591980)	17.2	104.27678	92.14024	190.79160	4.74836	0.0626116	2.8985389643146
(591981)	16.6	28.39972	137.34724	225.54588	8.62925	0.0794193	2.9302717643147
(591982)	16.2	44.36114	151.15531	158.19395	10.92347	0.2232567	3.1438096643147
(591983)	16.2	24.82402	280.43278	57.44449	25.25398	0.2928731	3.1490594643147
(591984)	17.4	106.75317	244.87788	349.23777	7.48862	0.2630373	3.0079618643148
(591985)	16.6	42.94180	206.94749	86.84411	10.58912	0.0743280	3.1689169643148
(591986)	13.5	301.92516	265.62288	173.58063	39.10178	0.0516624	5.1736024643148
(591987)	16.8	116.28391	106.01735	89.89281	16.98844	0.1898214	3.1965709643149
(591988)	16.8	117.42719	87.68897	140.06551	10.35651	0.0504856	3.1064087643149
(591989)	16.2	22.13640	208.63589	90.29429	14.88363	0.0716796	3.2237188643149
(591990)	16.8	256.45759	51.68188	39.38695	10.20361	0.0484215	3.0301040643150
(591991)	17.1	261.69427	14.64227	89.51512	1.65416	0.0585244	2.9581164643150
(591992)	17.1	37.39576	118.74754	212.19088	5.38560	0.0685287	3.0045015643150
(591993)	17.3	8.74108	139.64908	168.93003	2.75788	0.0489151	3.2194707643151
(591994)	15.9	340.36661	313.99762	70.46946	16.05949	0.1971616	3.1279117643151
(591995)	16.9	120.66767	257.36201	335.80865	10.51070	0.1033223	3.0795295643151
(591996)	15.9	9.30533	319.83692	65.97594	13.37709	0.1542040	2.9798824643151
(591997)	16.7	61.50883	64.53005	228.97330	6.96967	0.1177867	3.1359751643152
(591998)	16.6	338.42768	303.18509	100.18655	8.95210	0.0875472	3.0207924643152
(591999)	16.7	35.19879	256.83211	84.77117	17.40358	0.0919432	3.0431349643153
(592000)	17.1	348.01484	236.39810	121.43569	9.98027	0.1004804	3.1772520643153
(592001)	16.6	83.77671	37.91777	227.18260	15.18904	0.0663829	3.1612916643153
(592002)	17.1	109.37175	87.82253	121.39288	9.49405	0.1586709	3.2247049643153
(592003)	18.6	83.76970	17.51170	223.32079	1.83755	0.1551444	2.1718719643154
(592004)	17.6	224.09194	276.46986	13.26209	2.47831	0.1359892	2.5470773643154
(592005)	16.9	34.55421	212.73142	135.38153	11.14516	0.0426156	3.0109702643154
(592006)	16.8	351.48835	124.64029	223.43072	10.49275	0.0233764	3.1677104643155
(592007)	16.4	91.70968	50.27850	248.14145	10.48648	0.0616393	2.9728252643155
(592008)	18.8	16.89153	324.22645	317.17994	1.85844	0.1958057	2.2344680643156
(592009)	17.0	32.74943	129.39141	176.08873	15.27048	0.1051102	3.2238618643156
(592010)	17.0	80.63370	290.22260	332.30526	10.90049	0.2035774	3.1566171643156
(592011)	16.2	349.23255	292.77086	94.76608	27.70658	0.2022359	3.1325032643156
(592012)	16.4	64.61148	38.98773	252.01977	15.82549	0.2022241	3.1510367643157
(592013)	18.7	78.37477	102.18381	152.34215	8.28963	0.1479810	2.2160942643157
(592014)	16.6	34.64347	278.20148	67.70451	13.60557	0.0415269	3.0254817643157
(592015)	16.5	78.66526	17.43029	214.52562	16.93066	0.1424703	3.1232076643158
(592016)	18.9	105.73658	296.94784	281.13841	3.31186	0.1157213	2.1633786643158
(592017)	18.6	284.70496	350.30946	275.16832	18.52137	0.0443321	1.8678562643158

(592018)	16.7	308.61141	164.03875	247.53929	9.91952	0.0869256	3.0703521643159
(592019)	15.9	159.53635	263.77156	279.42971	24.46805	0.2621092	3.1740946643159
(592020)	16.9	80.75550	151.91599	127.32447	18.90621	0.0837106	3.0763801643159
(592021)	16.7	338.00051	298.50565	75.84026	10.22253	0.0952840	3.1035416643159
(592022)	16.8	157.28021	259.81284	293.50409	7.32043	0.1379818	3.0042190643160
(592023)	16.5	350.50664	284.29958	106.13227	16.74374	0.0371315	3.0118403643160
(592024)	18.2	91.99498	343.19059	252.74239	5.40721	0.1841930	2.2000403643160
(592025)	18.1	20.86437	14.61572	287.62020	4.90237	0.1646534	2.2745708643161
(592026)	16.1	102.87355	11.97256	264.21559	14.23497	0.2388093	3.1543089643161
(592027)	18.6	60.31508	340.51262	272.13951	1.59032	0.1887381	2.2737962643161
(592028)	16.0	54.55826	215.87773	97.80374	11.02295	0.0520441	3.0910833643162
(592029)	16.4	45.05200	58.16416	283.75517	7.15445	0.1424332	3.1983619643162
(592030)	16.8	86.52652	247.27173	63.31865	2.95042	0.0160483	2.9495010643163
(592031)	16.6	85.79496	38.52365	251.78347	16.02406	0.1983983	3.0809704643163
(592032)	16.9	146.25044	332.86153	242.24866	8.02281	0.0857206	3.0684525643163
(592033)	18.3	15.50214	223.08314	95.38685	6.86154	0.2042447	2.2575639643164
(592034)	17.0	91.21191	298.12003	47.02216	4.04955	0.1720622	2.9863036643164
(592035)	16.0	66.23911	141.87803	140.20491	17.51664	0.1234843	3.1974369643164
(592036)	16.2	40.05436	131.02622	223.29038	14.03358	0.0131573	3.1390868643165
(592037)	16.4	193.93013	243.57456	306.75675	9.27031	0.0362173	3.1248890643165
(592038)	16.1	145.01707	15.62292	235.97504	14.86132	0.0670181	3.1004114643166
(592039)	18.3	19.79660	26.44504	295.95784	6.36912	0.1245404	2.2276824643166
(592040)	16.2	121.95929	42.79942	230.15780	8.52175	0.0338479	3.1335126643166
(592041)	16.4	352.91905	333.94609	51.19989	15.42707	0.1009919	3.0177561643167
(592042)	16.6	89.96357	65.91621	204.27449	17.82290	0.0353119	3.0830164643167
(592043)	16.0	149.94576	299.56917	303.17612	9.77023	0.0889674	2.9901367643168
(592044)	6.2	24.60969	320.83124	351.44932	9.22573	0.1197439	46.8502917643168
(592045)	18.6	64.75594	83.85836	183.67472	5.80503	0.0802666	2.2495298643168
(592046)	16.7	32.98350	82.15315	278.88788	8.82924	0.0856024	3.2091869643169
(592047)	16.4	278.53296	182.90892	286.38834	9.60494	0.0528026	3.2327203643169
(592048)	15.9	165.43455	269.08757	280.83133	24.51186	0.2347815	3.1297468643169
(592049)	16.5	94.11375	167.66313	86.94101	16.53386	0.2133060	3.1611622643169
(592050)	16.8	158.68076	317.36595	259.28451	7.86083	0.0332714	3.0049987643170
(592051)	16.8	233.67470	101.01447	62.09865	14.60485	0.1027872	3.0400768643170
(592052)	16.9	15.24312	349.74672	9.68717	9.15119	0.0623028	3.2069450643170
(592053)	15.6	64.71280	143.03808	95.11693	27.87475	0.1332213	3.1964322643170
(592054)	16.7	127.40258	89.84196	123.49201	9.08185	0.1198860	3.1558152643171
(592055)	16.9	77.98034	169.76482	120.44530	13.04975	0.0446101	3.2009338643171
(592056)	16.8	100.78071	266.85495	5.30835	0.81972	0.0460781	3.1648120643172
(592057)	16.7	278.65164	189.49594	297.42559	11.66898	0.0469964	3.0363241643172
(592058)	18.5	75.80441	45.92368	188.18030	4.74502	0.1174406	2.2082256643172
(592059)	17.0	348.30872	226.80294	182.49198	15.16686	0.0097888	3.1486034643172
(592060)	16.3	223.03435	344.36065	188.16887	13.26926	0.0542141	3.1378271643173
(592061)	16.1	130.16164	12.51498	256.09555	13.09653	0.0567390	3.1675614643173
(592062)	15.8	59.40335	58.79915	258.49959	17.35595	0.1951588	3.1723856643173
(592063)	16.4	97.95299	50.32396	225.37698	14.65582	0.0670357	3.2098679643174
(592064)	6.1	61.75960	277.19177	342.88273	28.70118	0.1792809	44.4092898643174
(592065)	17.6	159.14401	246.79266	47.22124	2.62881	0.0371134	2.8597170643175
(592066)	16.7	18.52733	109.59821	265.98309	9.24540	0.0670927	3.1830476643175
(592067)	17.6	276.09032	161.82090	117.28250	14.64854	0.1429796	2.5808845643175
(592068)	17.1	178.78679	293.13084	258.41052	11.55098	0.1528461	3.1493394643176
(592069)	18.5	117.03753	291.87973	283.01358	5.46277	0.1121015	2.2118062643176
(592070)	16.7	108.75103	332.53821	294.61133	9.75458	0.0568667	3.1636575643176
(592071)	17.9	231.21340	181.66069	252.89553	6.13906	0.0752113	2.3019517643176
(592072)	17.8	11.53950	111.43605	206.97979	6.35429	0.1534328	2.2515780643177
(592073)	16.9	118.35854	188.98991	86.98499	4.49679	0.1163641	3.0937617643177
(592074)	16.8	331.10783	283.49739	125.04798	3.25993	0.0177038	3.1976141643177
(592075)	16.5	350.40193	36.16898	301.16718	7.76441	0.1119535	3.5237637643178
(592076)	18.6	119.45556	76.06914	124.84838	8.05088	0.0557817	2.2427742643178
(592077)	17.6	97.58913	191.88907	115.02493	2.38806	0.1993788	3.0910010643178
(592078)	17.1	3.02268	111.75996	301.10128	6.44118	0.1646625	3.1261345643178
(592079)	16.6	153.90684	130.07483	111.83463	10.77359	0.0742790	3.0959115643179
(592080)	16.6	0.87982	65.34161	326.00226	8.10103	0.0806744	3.1829997643179
(592081)	18.2	85.95395	189.09624	43.37302	2.22897	0.1220626	2.2417194643179
(592082)	18.4	193.57380	59.26628	83.68544	7.67251	0.0746849	2.2468812643180
(592083)	16.5	35.01769	46.47431	317.64261	7.52491	0.0812296	3.1709659643180
(592084)	16.7	106.15897	336.37933	306.10599	6.22631	0.1257960	3.2022770643180
(592085)	18.4	122.28159	217.72751	326.90953	6.53710	0.0741214	2.2516975643181
(592086)	16.7	190.42705	221.54405	318.79411	14.96948	0.0349941	3.1824107643181
(592087)	18.6	78.74075	168.93913	90.03058	6.80519	0.1192395	2.1988736643181
(592088)	16.1	319.25500	335.49845	95.56890	12.53009	0.0781818	3.1568385643182
(592089)	18.7	16.09432	231.26516	70.62689	4.88937	0.1426960	2.2552886643182
(592090)	16.2	29.99666	50.39788	314.36999	6.72189	0.0626394	3.2203923643182
(592091)	18.5	152.30010	206.70141	333.71616	6.10976	0.0943184	2.2071729643183
(592092)	16.4	148.34699	285.81336	325.56353	9.16276	0.0502925	3.0880605643183
(592093)	15.8	179.89889	269.68255	314.03087	14.22014	0.0143454	3.1031462643183
(592094)	16.8	202.26372	189.94497	336.64216	9.17875	0.0354814	3.2251753643184
(592095)	17.7	112.92729	94.85110	66.57455	7.38637	0.0488276	2.3432673643184
(592096)	16.5	67.78466	251.80293	3.50976	5.09862	0.0488673	3.5042565643185
(592097)	18.5	243.37631	26.09213	74.67518	6.27261	0.0728786	2.2186937643185
(592098)	17.4	249.76651	169.29609	101.37758	12.82162	0.1380760	2.6385023643185
(592099)	16.4	139.73213	238.41843	348.46134	11.61794	0.0675817	3.2251108643186
(592100)	16.2	199.71998	97.35070	89.94993	9.49639	0.0360221	3.1612359643186
(592101)	18.7	139.98873	217.90051	348.84862	6.25081	0.0574933	2.2007747643186
(592102)	17.9	4.28468	12.65442	318.13991	9.74358	0.1538087	2.2911662643186
(592103)	18.3	25.98200	323.30865	349.65328	7.04086	0.1430521	2.2905171643187
(592104)	18.1	316.75554	79.81566	322.99044	6.23695	0.1624048	2.2838283643187
(592105)	18.4	78.16898	263.13471	327.64471	6.88873	0.0229788	2.2703733643188
(592106)	18.6	142.78225	182.94246	11.38324	3.92280	0.1017801	2.2295558643188
(592107)	18.2	327.98429	351.06104	32.68223	6.95898	0.0516112	2.2017145643188
(592108)	18.9	66.38062	234.29806	25.19713	3.67588	0.1332100	2.2251703643188
(592109)	18.7	120.07409	191.99915	20.60382	5.09387	0.0895728	2.2178000643189
(592110)	19.0	92.99483	169.27699	67.15242	6.38357	0.1213545	2.2192155643189
(592111)	18.3	71.82411	142.49860	97.85567	6.48457	0.1697320	2.2748342643189
(592112)	18.1	351.14355	281.23437	82.39267	4.71693	0.2077616	2.2225039643190
(592113)	16.4	39.40005	188.75620	154.72341	11.86513	0.1120889	3.0475856643190
(592114)	16.8	4.32834	187.64597	204.31843	3.38523	0.0771522	3.1468825643191
(592115)	16.5	312.79691	285.04978	119.18182	11.24158	0.1042300	3.3792896643191
(592116)	16.1	312.78493	102.23245	316.74319	20.36817	0.0652215	3.2455136643191
(592117)	18.6	57.98441	204.12826	85.59559	5.28672	0.1678253	2.1924414643191
(592118)	16.5	179.06634	215.68549	330.96097	15.69996	0.1446601	3.2127200643192
(592119)	16.6	330.24018	6.83880	27.52815	5.00833	0.0652343	3.3350083643192
(592120)	16.9	57.07212	3.18629	356.03929	11.12780	0.1237393	3.0948386643192
(592121)	16.5	73.30004	242.49734	78.67192	9.67887	0.0816655	3.1671241643193

(592122)	18.7	54.71806	256.25799	0.11305	6.21352	0.1362353	2.2625649643193
(592123)	16.5	132.03454	182.25797	88.63052	11.23516	0.0583973	3.1030137643193
(592124)	17.9	10.61140	269.20938	46.14470	6.58534	0.1381978	2.2581936643194
(592125)	18.8	277.10442	41.42619	28.53619	7.14230	0.1235659	2.2448223643194
(592126)	16.8	99.95340	253.93683	35.66623	9.71570	0.0666916	3.1870237643194
(592127)	18.2	340.52755	169.55358	196.42382	3.13062	0.1678218	2.2897566643194
(592128)	17.9	30.33867	179.75139	150.81296	9.26790	0.2286079	2.2410770643195
(592129)	16.9	100.14751	204.14949	130.84922	5.50710	0.1500158	3.1495416643195
(592130)	17.4	152.59103	196.34143	158.27609	2.44838	0.0768290	2.8640129643196
(592131)	17.0	359.09080	354.94836	98.26545	3.24170	0.0516396	2.9031273643196
(592132)	16.7	49.30969	29.12871	314.41531	7.84556	0.0343021	3.1356826643196
(592133)	19.1	100.18014	291.14384	274.16431	1.59917	0.1951076	2.2515052643197
(592134)	16.9	63.66790	8.02078	317.34608	8.52724	0.0800562	3.1591021643197
(592135)	16.4	61.26775	214.55680	117.28981	10.28406	0.1024487	3.2006741643197
(592136)	18.3	36.73757	229.35271	71.69407	6.15624	0.1257373	2.2369488643198
(592137)	16.4	29.50116	212.99157	149.73972	10.15212	0.0873435	3.1725087643198
(592138)	18.4	162.60096	54.37087	92.43417	6.78775	0.1128956	2.2854514643198
(592139)	16.5	208.78582	277.90438	242.43913	4.40976	0.0428730	3.4210673643199
(592140)	16.5	183.89980	233.70751	346.33565	9.38732	0.1814631	3.1408810643199
(592141)	16.5	184.16538	227.92111	324.36500	9.06465	0.1561799	3.1410320643199
(592142)	16.2	32.38070	258.03714	104.75837	10.49981	0.1124290	3.1362904643199
(592143)	17.4	147.08575	150.81518	122.37804	1.71582	0.2251193	3.0051269643200
(592144)	16.7	87.37908	314.72673	22.48200	9.14390	0.1417040	3.0891801643200
(592145)	18.4	8.25405	201.84396	144.01176	5.63558	0.1967399	2.2188305643201
(592146)	16.9	69.70071	16.08945	330.50286	9.20051	0.0549350	3.0631903643201
(592147)	6.8	15.15448	321.81018	355.76485	4.34726	0.1913336	47.0932856643201
(592148)	6.1	143.56104	174.59626	43.28097	2.35809	0.0723771	44.2806613643201
(592149)	7.2	359.89183	14.12862	1.73274	13.02369	0.7688086	145.6577398643202
(592150)	17.0	36.93252	92.99234	294.77511	8.02057	0.1193582	3.0704734643202
(592151)	16.0	300.01658	140.54435	307.70863	8.93627	0.0407965	3.2042214643202
(592152)	17.9	38.56349	88.94337	142.11649	6.66341	0.0629316	2.3621137643203
(592153)	18.6	28.27223	150.59325	151.26989	4.90442	0.1519014	2.2435015643203
(592154)	18.6	49.03486	118.75591	161.07377	2.84970	0.0392367	2.2657318643204
(592155)	18.2	37.69945	330.96566	321.94201	4.44846	0.1501948	2.2506874643204
(592156)	17.9	297.51643	305.25864	126.10273	23.29275	0.1848284	2.2689921643204
(592157)	18.2	37.47641	334.48979	315.50799	7.73625	0.1136934	2.2606007643205
(592158)	16.2	66.57214	235.45813	140.14406	14.11584	0.1481829	3.0809243643205
(592159)	16.4	91.80060	7.55551	261.73715	3.93634	0.0585955	3.4391459643206
(592160)	16.7	33.83342	205.33505	134.11193	8.51561	0.2151479	3.1415845643206
(592161)	18.4	5.63102	238.18504	98.05987	5.53866	0.1061884	2.2210600643206
(592162)	15.8	267.26190	258.08901	256.68806	8.27092	0.0461951	3.1614697643207
(592163)	18.3	103.88167	225.66896	336.29198	5.22024	0.0724135	2.3441889643207
(592164)	17.2	214.16072	0.89327	285.03794	2.61136	0.0240029	2.7641887643207
(592165)	18.1	2.66921	229.90543	108.67372	7.18593	0.1493388	2.2940200643208
(592166)	17.8	53.48196	264.90446	149.29715	5.78732	0.0263424	2.8457195643208
(592167)	16.5	353.11473	119.29572	208.59680	19.55916	0.1364668	3.3777590643208
(592168)	16.2	28.33586	130.96185	232.24232	14.63356	0.0546094	3.2208460643209
(592169)	16.3	322.79744	256.54523	193.66477	17.01946	0.1118313	3.1372167643209
(592170)	17.7	293.41106	115.20746	297.45451	6.73357	0.0985014	2.2965557643209
(592171)	15.3	9.46051	30.58830	308.00596	8.71607	0.0864394	3.5672149643210
(592172)	16.8	54.23316	97.02085	325.17532	9.00189	0.0982491	2.9800948643210
(592173)	16.2	171.04619	274.27429	252.33942	8.53267	0.0044726	3.4559986643211
(592174)	16.1	67.15393	27.67171	295.91933	8.77833	0.0359526	3.1924874643211
(592175)	16.6	19.37738	102.25574	269.64350	9.19966	0.0808618	3.2021064643211
(592176)	19.0	10.28255	101.55921	219.96234	3.92373	0.1759657	2.2510087643212
(592177)	19.3	294.36230	141.94511	248.01413	5.58939	0.1833390	2.2989027643212
(592178)	17.2	45.30623	99.71415	282.45327	4.27811	0.1139182	3.0571231643212
(592179)	18.4	306.09956	132.24615	292.21970	4.24902	0.1117138	2.1937505643212
(592180)	19.0	266.45330	243.76046	167.26663	10.05737	0.1369498	2.3141116643213
(592181)	16.7	334.22599	251.66272	168.42566	8.81424	0.0293967	3.1891978643213
(592182)	18.6	24.83751	30.75153	312.34914	8.08721	0.1548411	2.1942345643213
(592183)	18.1	199.38274	249.00215	264.34553	6.40805	0.0486016	2.2146935643213
(592184)	16.2	212.20246	289.13982	261.28961	9.58081	0.0761445	3.1310317643214
(592185)	18.6	273.00850	214.42493	206.33622	5.71308	0.2157115	2.3109239643214
(592186)	18.2	14.87745	63.72689	253.80615	5.40115	0.1321480	2.2584192643214
(592187)	16.0	229.28235	7.33328	172.80049	10.00430	0.0491476	3.1128675643215
(592188)	18.4	176.45492	250.15157	285.60315	7.45188	0.0320198	2.2170473643216
(592189)	18.1	116.25500	297.67431	264.84735	5.15644	0.0806465	2.2804131643216
(592190)	18.2	139.36559	277.64996	303.20733	6.53690	0.1252159	2.1852744643216
(592191)	18.3	164.34437	251.42548	296.28296	6.21556	0.1002475	2.2141632643217
(592192)	18.8	67.92954	45.13492	181.30189	5.71796	0.1780916	2.3084993643217
(592193)	18.6	173.52764	235.62452	293.99070	7.99049	0.0418851	2.2377346643217
(592194)	18.8	275.32134	248.90437	168.48086	6.78103	0.0848370	2.2885361643217
(592195)	17.4	60.39973	126.84353	258.07501	2.24827	0.1752669	3.0988430643218
(592196)	17.5	359.84650	296.39523	165.45040	2.82434	0.1262774	3.0250632643218
(592197)	18.7	36.69582	169.20197	130.20113	1.79424	0.0881087	2.2679512643218
(592198)	17.2	86.69255	165.98923	173.76634	2.27856	0.0808283	3.1426549643218
(592199)	18.2	89.22994	102.72674	157.71818	5.19491	0.1528304	2.2233131643219
(592200)	18.6	259.82309	88.08230	348.75287	3.35552	0.1481077	2.3253865643219
(592201)	18.8	116.91178	187.93392	43.78309	1.52341	0.0486800	2.2464672643219
(592202)	17.6	184.98187	305.94283	10.23136	4.72957	0.1060876	2.8192825643220
(592203)	16.7	102.93738	178.86103	158.12903	10.26494	0.0958932	3.0918293643220
(592204)	18.1	9.42498	143.95201	126.84912	5.51414	0.1093719	2.3929459643220
(592205)	16.6	66.48556	311.80944	17.92275	10.47696	0.0157928	3.1180060643221
(592206)	16.6	195.51939	177.15073	31.84639	10.15104	0.0652271	3.0664147643221
(592207)	16.6	335.51840	41.43196	22.37581	11.20303	0.0612284	3.1546593643221
(592208)	18.0	289.93645	283.02764	65.19729	6.59885	0.1300651	2.3773689643222
(592209)	18.6	295.00374	332.00855	75.34710	7.64190	0.1212414	2.2520593643222
(592210)	18.6	265.61961	325.22294	111.21022	1.61246	0.2007053	2.3283585643222
(592211)	18.0	156.14212	291.05570	272.75424	6.50483	0.0190202	2.2151783643222
(592212)	18.8	157.75553	290.38384	241.53994	3.46976	0.0915904	2.2741994643223
(592213)	18.7	250.82262	198.46608	233.07142	5.57498	0.1247065	2.3318224643223
(592214)	16.4	166.97907	323.09826	269.20010	5.96571	0.1177115	3.1776412643223
(592215)	18.0	178.50759	72.24799	298.09843	4.40674	0.1332442	2.6705859643224
(592216)	18.8	74.24208	100.87820	153.63489	6.55601	0.1198570	2.2630349643224
(592217)	18.1	129.71480	343.02768	221.99599	4.50521	0.1169432	2.2608426643224
(592218)	17.9	195.38174	15.74273	352.04827	5.96967	0.0604733	2.6349976643224
(592219)	18.5	8.65297	205.34133	132.48164	2.51249	0.2254020	2.2565165643225
(592220)	17.4	120.87914	244.47785	133.30147	2.87972	0.0700359	2.8580942643225
(592221)	18.2	243.30825	351.12815	100.78629	6.29612	0.1114294	2.3268062643225
(592222)	17.2	43.27974	267.15906	142.96705	17.00353	0.2351427	3.1423674643226
(592223)	17.8	88.30632	194.96760	45.91197	10.65637	0.0976786	2.2972751643226
(592224)	18.0	15.45741	184.05122	145.60786	7.25163	0.1989656	2.2850376643226
(592225)	16.4	25.54171	295.89688	73.71553	9.33314	0.0941931	3.1622318643227

(592226)	16.9	128.39301	250.62231	101.66606	4.68193	0.1273107	2.8543875643227
(592227)	18.7	305.44733	113.52115	299.85520	5.76830	0.1611977	2.2294985643227
(592228)	16.3	341.40497	340.03738	70.22257	11.27137	0.0644651	3.1572193643228
(592229)	17.6	252.88357	98.34747	7.37577	7.47304	0.0506536	2.2677800643228
(592230)	16.9	108.97261	274.26149	39.82186	0.49568	0.1612278	3.1517102643228
(592231)	18.3	64.15695	137.89538	129.65896	2.75712	0.1512874	2.2824166643229
(592232)	18.2	45.73451	234.66975	14.22591	24.56473	0.3115496	2.3061977643229
(592233)	16.4	207.29202	294.50542	4.45111	10.29574	0.1032181	2.8007058643229
(592234)	15.9	356.16003	155.62729	232.04418	27.12556	0.1745269	3.1648890643230
(592235)	18.2	8.05235	283.91984	36.10190	9.54819	0.2511848	2.2745843643230
(592236)	17.7	299.80028	88.86542	143.34063	5.45282	0.1147017	2.6243378643231
(592237)	18.5	16.21182	356.96243	359.47642	4.84753	0.1478271	2.2284058643231
(592238)	18.6	29.91779	107.61949	228.96228	1.28509	0.0610140	2.2117967643231
(592239)	17.4	95.81383	11.05492	225.91409	5.88099	0.0977571	2.3014599643231
(592240)	18.5	319.35794	201.47511	210.87626	4.55520	0.2144209	2.2739411643232
(592241)	17.6	154.78040	284.00075	280.29296	3.34271	0.0851945	2.2510805643232
(592242)	18.3	219.65151	347.73448	144.21554	4.28447	0.1190048	2.2596854643233
(592243)	17.4	264.22929	301.69420	351.63578	2.28594	0.0557532	2.6453157643233
(592244)	18.0	1.46948	209.52825	149.79601	7.06377	0.1241186	2.3239234643233
(592245)	6.9	358.52329	282.43800	77.86654	42.22656	0.3812208	68.8926177643234
(592246)	17.3	198.01762	272.91105	45.05840	4.52604	0.0772731	2.7912750643234
(592247)	18.0	1.03990	211.19728	112.64838	7.71991	0.1148378	2.3599172643234
(592248)	18.6	126.86095	56.56272	148.22993	3.35276	0.0748884	2.2912541643235
(592249)	17.2	203.94034	291.08093	29.44161	13.75867	0.2057708	2.7270636643235
(592250)	18.4	303.14170	197.47921	208.94465	6.90436	0.0925619	2.2862231643235
(592251)	18.3	108.04854	304.61630	254.92280	3.66231	0.1080598	2.2994657643236
(592252)	17.6	246.79211	252.14927	11.46412	7.85972	0.1828021	2.7394572643236
(592253)	17.9	34.15835	191.96296	123.36912	4.23236	0.1609617	2.2513706643236
(592254)	18.6	11.41124	275.26252	67.40495	5.41092	0.1874683	2.2776870643237
(592255)	18.6	57.90496	85.91979	199.01533	6.06799	0.0594469	2.2705414643237
(592256)	17.8	319.29734	327.14587	82.20100	25.34165	0.2094122	2.2868299643237
(592257)	16.4	16.12501	288.38413	43.23050	10.23811	0.0470300	3.4872880643237
(592258)	16.8	152.00521	181.94282	156.84508	10.03481	0.1167096	2.8378783643238
(592259)	18.6	39.05842	12.75333	276.16248	5.31243	0.1953585	2.2501353643238
(592260)	17.1	99.71169	199.74448	135.75010	2.02352	0.1600778	3.1115079643238
(592261)	18.1	349.59531	121.91344	172.93337	6.63637	0.1152359	2.3935188643239
(592262)	16.5	166.29441	259.74614	3.65992	3.87543	0.1629907	3.1508817643239
(592263)	18.2	1.97700	150.83144	196.08870	8.37839	0.1561022	2.2775713643239
(592264)	17.8	86.82990	258.69791	348.89105	4.94358	0.1348443	2.2945164643240
(592265)	18.1	15.32009	164.73019	164.39525	8.40103	0.2003723	2.3530230643240
(592266)	18.1	270.59141	118.79778	321.08296	5.49320	0.2897619	2.3001546643240
(592267)	18.3	13.30684	301.61737	41.31377	4.40387	0.1605894	2.2663866643241
(592268)	18.7	279.29585	67.10018	345.34394	1.18641	0.1337472	2.3352682643241
(592269)	16.9	137.72814	226.77578	50.57369	1.74614	0.1875734	3.1318784643241
(592270)	17.1	84.44101	133.80325	292.09172	1.07323	0.0552211	2.8460399643242
(592271)	18.5	240.50091	269.87816	191.63761	7.38477	0.1510995	2.3158090643242
(592272)	17.6	116.67497	215.92498	168.20531	2.11109	0.0860077	2.8822771643242
(592273)	17.1	329.79735	71.18366	78.27664	3.13204	0.0420536	2.9480808643243
(592274)	18.1	46.03574	293.36667	355.15817	6.93474	0.1108648	2.2744607643243
(592275)	16.6	129.79207	178.92924	116.13173	10.09850	0.0569261	3.1493691643243
(592276)	18.6	42.03102	166.96458	120.42075	6.01949	0.1762564	2.2666859643244
(592277)	18.1	193.83969	0.99077	110.27906	3.02141	0.1519366	2.3881566643244
(592278)	18.3	268.52281	65.17608	9.42996	7.75195	0.0666650	2.2893761643245
(592279)	19.0	283.70298	36.87957	38.30087	2.43879	0.1810948	2.2850817643245
(592280)	18.2	229.47951	70.31057	44.86549	5.62678	0.1812848	2.3160806643245
(592281)	18.7	135.78253	106.40850	75.21053	3.92531	0.0469259	2.3329201643245
(592282)	18.1	356.30804	321.47587	70.82477	4.95492	0.1331739	2.1861043643246
(592283)	18.7	306.27091	214.25797	200.27282	5.26507	0.1375152	2.2820750643246
(592284)	18.8	59.78510	300.58491	345.30593	5.18469	0.0543685	2.2839159643246
(592285)	18.7	79.76103	251.41710	348.96287	2.08748	0.1448321	2.3176386643247
(592286)	17.7	217.06654	222.25138	93.96970	1.40547	0.0618263	2.7484664643247
(592287)	18.5	260.79552	86.04598	336.76902	1.77089	0.1989403	2.3948034643247
(592288)	17.6	46.41296	350.37301	78.02999	2.74021	0.2086008	3.0544816643247
(592289)	20.0	223.18288	98.37089	9.41201	2.89471	0.2074533	1.7799078643248
(592290)	17.8	285.08616	99.28915	326.76695	6.07516	0.0537990	2.3101205643248
(592291)	17.6	77.56338	21.20185	232.61478	4.39433	0.1597405	2.3055466643248
(592292)	18.7	90.62483	152.67224	73.46488	2.24354	0.1347717	2.3239701643249
(592293)	18.4	9.20646	279.78099	30.71074	6.55336	0.1249887	2.3242371643249
(592294)	18.5	263.54771	49.95373	52.91189	4.46898	0.1289528	2.2791859643249
(592295)	17.3	256.10260	193.38175	70.04150	6.15654	0.0949164	2.7899365643250
(592296)	18.7	241.89751	335.17150	139.55502	6.64396	0.0546601	2.2841922643250
(592297)	17.4	66.39108	199.80388	109.52602	8.00065	0.2006390	2.2676712643250
(592298)	18.1	274.95465	236.46570	209.95770	2.87933	0.1652939	2.2955120643251
(592299)	18.4	358.65542	181.14766	178.17408	6.64492	0.1440575	2.2830135643251
(592300)	18.0	76.81380	162.53233	107.77214	3.07065	0.1863375	2.2728764643252
(592301)	16.2	334.82023	242.49710	190.09486	10.48245	0.0576110	3.1605651643252
(592302)	16.2	339.39026	196.47633	225.34421	8.22786	0.0657175	3.1828171643253
(592303)	18.0	29.67243	264.21185	59.42323	7.23918	0.2062316	2.2456444643253
(592304)	16.5	314.13317	86.08343	49.79907	10.65146	0.0450783	3.1224679643253
(592305)	18.3	306.78868	289.34249	112.19035	6.92891	0.1177062	2.3073587643254
(592306)	17.8	339.36067	299.86609	92.36289	8.01027	0.1388038	2.2551139643254
(592307)	16.5	64.14974	176.60787	129.06180	10.00306	0.1282860	3.4483138643254
(592308)	18.1	53.26904	238.76414	60.32825	8.43231	0.1552071	2.2482705643255
(592309)	16.6	212.96266	357.08600	222.67378	9.85824	0.0494087	3.1733387643255
(592310)	16.7	89.60797	91.10837	291.67718	6.51881	0.0816814	3.0247308643255
(592311)	18.3	341.55545	15.70977	358.67761	5.36474	0.1356794	2.2892975643256
(592312)	17.5	85.70056	128.17506	247.24551	7.48795	0.2550446	3.0608509643256
(592313)	18.5	303.90625	22.30606	37.96342	3.88337	0.1917972	2.3026902643256
(592314)	18.4	352.13521	10.40094	349.60275	6.01729	0.1606980	2.3013025643256
(592315)	18.2	28.27214	323.80781	12.55053	6.09505	0.1394508	2.2475230643257
(592316)	18.3	296.50363	260.38134	160.85357	4.71416	0.0812025	2.3150004643257
(592317)	18.5	308.58838	305.56879	125.21802	3.17024	0.1798583	2.2950310643257
(592318)	16.8	242.36553	171.89954	99.19918	3.24501	0.0847988	2.8719188643258
(592319)	17.3	87.81885	353.93024	20.58521	2.86359	0.1051627	3.1140185643258
(592320)	18.9	306.76257	285.99546	121.38142	4.91230	0.2089170	2.3225862643258
(592321)	18.2	25.55145	172.98922	130.67247	5.78803	0.0418802	2.3336511643259
(592322)	17.8	33.27079	25.31134	272.39404	4.27971	0.1968139	2.2987708643259
(592323)	17.6	60.32348	46.44909	236.23549	5.61907	0.1671964	2.2789720643259
(592324)	16.2	174.66618	59.49046	200.14123	27.04651	0.2022345	3.1595504643260
(592325)	17.5	230.98585	253.93561	55.20772	7.78779	0.0783060	2.7453237643260
(592326)	18.7	359.84072	202.95539	164.38087	6.70482	0.1322875	2.2731026643260
(592327)	18.3	19.76399	301.80640	27.02978	4.93882	0.1732618	2.2890877643261
(592328)	18.0	26.25770	288.85172	43.27851	6.20575	0.0653018	2.2969511643261
(592329)	18.0	19.86386	286.47110	28.04297	7.26340	0.1703411	2.3160245643261

(592330)	17.0	140.41679	28.11882	295.52464	3.22346	0.1576128	3.0510776643262
(592331)	17.6	291.17505	211.72630	248.21600	5.50531	0.0507900	2.2424241643262
(592332)	18.3	350.64474	40.97892	321.74794	4.06331	0.2321026	2.2905690643263
(592333)	18.9	256.62731	44.90283	47.29798	2.09245	0.1348962	2.3580578643263
(592334)	17.0	116.84957	72.00767	258.60295	0.05686	0.1146791	3.1132391643263
(592335)	17.5	201.23220	9.98689	323.62337	2.96530	0.0985238	2.7604849643264
(592336)	19.1	191.23010	264.35240	223.25367	22.54947	0.0809472	1.7968632643264
(592337)	17.7	286.81250	281.18522	152.28174	4.26216	0.2223555	2.3513539643264
(592338)	18.1	344.00989	111.13639	262.20828	5.88310	0.1130566	2.2931465643265
(592339)	17.1	64.40476	185.20669	219.05153	5.34971	0.3046810	3.1398797643265
(592340)	18.3	231.95193	190.01354	285.22818	0.52185	0.1376885	2.3793313643265
(592341)	18.3	321.12447	82.41008	313.59672	5.69919	0.0950332	2.3027315643266
(592342)	17.9	29.11222	1.70272	313.90425	5.89124	0.1794283	2.2876203643266
(592343)	18.1	280.34262	188.91900	243.80005	8.47065	0.1215654	2.3322897643266
(592344)	18.5	336.23900	253.56916	120.35266	2.05611	0.1944831	2.3315138643267
(592345)	18.6	323.92148	293.10182	83.45155	4.63716	0.1511059	2.3626759643267
(592346)	18.2	312.68144	25.06444	353.91780	6.96101	0.1400376	2.3519841643267
(592347)	17.9	69.57522	25.68896	274.62900	4.24690	0.1600045	2.2280243643267
(592348)	18.4	307.34109	106.68253	304.16503	4.42841	0.1453363	2.3104570643268
(592349)	17.9	356.59684	273.79096	94.14254	9.53022	0.2446276	2.2641640643268
(592350)	16.5	120.70320	199.07116	164.38809	11.64826	0.2515439	3.0222333643269
(592351)	16.9	19.51345	105.01577	0.89746	8.75178	0.0357012	3.0535392643269
(592352)	18.1	295.09987	145.45046	263.74430	6.75712	0.0861560	2.3511046643270
(592353)	16.4	40.05915	109.57393	310.12920	11.60538	0.0831522	3.2221040643270
(592354)	17.6	266.57146	51.60727	54.23649	7.00584	0.0752988	2.2863193643270
(592355)	18.1	175.42063	261.71472	285.88539	5.65425	0.0583373	2.2967044643271
(592356)	18.2	28.14424	254.87358	48.92003	4.24641	0.1724131	2.3209897643271
(592357)	18.1	3.82114	256.95835	92.37490	7.58235	0.1420100	2.3380948643271
(592358)	18.1	24.86849	39.29954	217.49357	21.26573	0.0476669	1.8496121643272
(592359)	18.1	169.38767	303.81431	228.08211	6.28153	0.0606191	2.3677134643272
(592360)	19.0	133.79267	133.29714	326.36939	19.27306	0.0833626	1.8971833643272
(592361)	18.6	312.85947	106.27830	289.00047	1.79923	0.1797136	2.3496557643273
(592362)	18.6	289.58370	60.84589	35.96744	23.03625	0.2985935	2.3224265643273
(592363)	18.5	277.87516	238.14590	198.25086	6.13847	0.1015960	2.3690864643273
(592364)	16.9	22.61166	251.30252	227.51586	6.39396	0.1267744	3.1376540643273
(592365)	18.1	67.87693	246.65924	24.85666	7.07027	0.1030767	2.3327901643274
(592366)	18.8	250.86128	26.56021	77.79372	0.16106	0.1663806	2.3591240643274
(592367)	17.2	83.07280	195.25438	61.20320	7.50853	0.1010083	2.3429786643275
(592368)	17.4	310.25159	55.97460	45.20109	23.19358	0.2390215	2.2664148643275
(592369)	18.8	283.49797	239.00520	196.99758	3.13205	0.1637610	2.3480035643276
(592370)	18.3	294.40435	338.57749	83.59237	7.67491	0.0760163	2.3446549643276
(592371)	18.6	303.18884	30.27332	40.97311	1.55533	0.1954276	2.3304972643276
(592372)	18.5	262.89355	5.59040	60.63679	3.02119	0.1900205	2.4378259643277
(592373)	18.5	293.29596	147.54172	280.47136	6.41779	0.0772632	2.3203832643277
(592374)	17.9	318.87530	35.62888	10.93875	7.53819	0.1528617	2.3175262643277
(592375)	17.6	104.86541	7.45453	227.53720	7.21949	0.0978321	2.3553820643277
(592376)	18.0	151.81078	158.20834	10.56868	4.91457	0.1140720	2.4348458643278
(592377)	17.7	6.47995	179.20817	167.77310	8.61674	0.1784035	2.3124063643278
(592378)	18.1	125.82608	25.48610	187.35961	7.14391	0.0626212	2.3745022643279
(592379)	18.2	353.65251	270.34754	63.79264	2.35485	0.2060249	2.3766178643279
(592380)	17.5	231.28697	23.34291	349.85416	5.49281	0.1472568	2.5995650643279
(592381)	18.6	278.74599	113.34692	302.27366	1.85343	0.1772944	2.3975991643280
(592382)	17.9	11.73754	176.81473	153.07640	6.39867	0.1419410	2.3123554643280
(592383)	17.8	249.62658	20.62790	107.41382	7.10749	0.0227618	2.2767707643280
(592384)	18.3	8.44178	261.33495	68.28345	4.00014	0.1352983	2.3324854643281
(592385)	18.0	311.94577	204.82093	199.83039	5.41696	0.0876559	2.3428741643281
(592386)	17.4	51.14723	235.82510	39.54841	21.69028	0.2182768	2.3161219643282
(592387)	17.9	145.89736	312.67623	236.52116	2.99703	0.1015763	2.3800318643282
(592388)	17.5	184.60193	196.52516	145.98411	8.47446	0.3839703	2.7009014643282
(592389)	16.8	112.96302	155.13207	230.83196	9.61205	0.0887016	2.9693409643283
(592390)	17.8	45.75026	215.30973	88.51193	12.53753	0.2398210	2.2762528643283
(592391)	17.1	353.73203	159.15453	261.96442	24.75598	0.2102576	2.2638047643283
(592392)	17.4	159.74140	195.61489	121.97010	10.78719	0.1990449	3.0502402643284
(592393)	17.6	123.60488	135.40559	47.92164	9.37479	0.2594397	2.5714627643284
(592394)	17.9	351.86791	285.00772	75.44053	7.73749	0.1503163	2.2895904643284
(592395)	17.6	186.01616	108.31499	82.66773	9.06710	0.1182482	2.3516985643285
(592396)	17.3	301.96972	283.26770	294.36923	0.17466	0.0285574	2.9714490643285
(592397)	18.5	262.64097	74.25668	25.30461	1.63340	0.1449446	2.3509778643285
(592398)	18.3	191.92321	170.68661	346.02711	1.27781	0.1354426	2.3921989643286
(592399)	18.2	358.14505	116.31519	257.77283	6.96670	0.1281721	2.3108722643286
(592400)	18.8	272.21999	68.82794	348.38386	1.94236	0.2092941	2.4202657643286
(592401)	18.9	249.46299	99.06616	11.55451	2.89599	0.1892833	2.3814161643287
(592402)	17.7	311.89831	356.59453	52.07071	2.27117	0.1758306	2.3405193643287
(592403)	18.3	174.93705	103.25076	56.90539	1.97695	0.1157925	2.4415782643287
(592404)	18.6	270.91805	244.52375	202.93037	1.29579	0.1156850	2.3633460643288
(592405)	16.8	169.90764	260.34876	28.84854	12.10600	0.2302554	3.1233071643288
(592406)	18.0	205.22978	40.27407	88.50330	7.60232	0.1238360	2.4432182643288
(592407)	17.9	279.83497	321.73967	54.08593	4.43207	0.0441969	2.5117116643289
(592408)	18.2	352.37968	110.99226	235.89556	5.60839	0.1461611	2.3678342643289
(592409)	18.5	21.82580	272.76450	63.73366	2.42384	0.1391209	2.3236204643289
(592410)	17.6	259.14054	44.68043	27.49316	1.65529	0.1616845	2.4413203643289
(592411)	18.4	293.24648	313.12500	121.42675	2.74906	0.1747420	2.3565054643290
(592412)	16.7	289.00477	333.00636	209.52080	14.26408	0.0171500	3.2071025643290
(592413)	16.9	203.16796	357.70759	132.81731	34.36164	0.1748267	2.5956057643291
(592414)	18.2	267.80069	226.84698	227.45953	4.33716	0.1699161	2.3663530643291
(592415)	18.1	14.07314	189.18362	130.56660	2.60357	0.1993966	2.3558278643292
(592416)	18.2	64.21787	206.94897	85.54382	8.12914	0.1232061	2.3173040643292
(592417)	18.3	358.05285	146.23923	192.56500	6.11482	0.1127497	2.3677901643292
(592418)	17.7	190.19164	59.77036	79.38668	11.09944	0.1312265	2.4590592643293
(592419)	17.8	182.75053	76.77412	77.21091	8.11318	0.1516732	2.4339814643293
(592420)	18.2	200.78908	31.40571	88.36248	7.38448	0.0362612	2.4367154643293
(592421)	18.5	231.94590	251.10043	212.62086	6.84727	0.0597032	2.3891098643294
(592422)	18.1	165.69919	96.50311	90.67520	3.83389	0.0168203	2.3386122643294
(592423)	18.9	261.10546	310.97280	141.92537	2.60037	0.1459907	2.3678128643294
(592424)	18.6	299.38837	221.05001	207.09687	6.25942	0.1210319	2.3206699643295
(592425)	18.7	274.90252	14.02279	63.14141	2.24240	0.1679825	2.3707730643295
(592426)	18.3	180.10364	92.57852	60.35603	7.19377	0.1371770	2.4343321643295
(592427)	17.7	312.60665	322.89413	103.51188	6.96995	0.1372430	2.2669837643295
(592428)	17.4	85.38612	348.09464	45.67020	6.70912	0.1617908	3.0423847643296
(592429)	17.5	265.16433	170.18315	296.57664	13.04607	0.0729079	2.3829217643296
(592430)	18.3	344.43599	352.04822	0.37938	7.68134	0.1464588	2.3694572643296
(592431)	18.2	338.92116	342.62438	24.14726	7.43890	0.1485968	2.3666563643297
(592432)	18.2	352.26183	35.53107	316.74606	4.85961	0.1369952	2.3107103643297
(592433)	18.0	175.75713	128.55244	47.67897	7.32722	0.0371312	2.3765625643297

(592434)	18.0	18.74392	237.14705	89.26798	5.59906	0.2781464	2.3246440643297
(592435)	17.0	60.82764	212.69998	256.68049	4.54236	0.0386540	2.9408081643298
(592436)	18.0	68.60158	308.07091	323.06370	0.87858	0.1549443	2.3765505643298
(592437)	15.3	54.31210	40.86363	249.89625	7.55299	0.1368477	3.9650372643298
(592438)	17.4	212.84138	261.33961	230.60036	12.95627	0.1328322	2.5405278643299
(592439)	17.0	87.98231	96.43927	306.63749	3.66063	0.2297952	3.0776441643299
(592440)	17.8	345.46187	339.62738	34.19466	2.62980	0.2154272	2.3323356643300
(592441)	18.0	341.49495	338.24234	45.75374	6.33698	0.1732358	2.2657409643300
(592442)	18.4	348.08802	297.44439	78.65177	3.78913	0.1729848	2.2728237643300
(592443)	18.0	107.47641	91.42266	143.86907	6.76143	0.0753049	2.4000042643301
(592444)	17.3	133.89518	316.33492	222.18356	12.91166	0.2194308	2.5525210643301
(592445)	18.0	142.82459	77.64024	85.34221	12.46142	0.1308798	2.5422304643302
(592446)	18.2	163.82620	1.29411	179.56074	6.52311	0.0557312	2.4093274643302
(592447)	17.9	101.88118	132.97101	129.61616	6.99361	0.0890611	2.3378426643302
(592448)	17.9	106.57031	131.50239	87.10637	15.27882	0.0635761	2.4638899643303
(592449)	18.4	254.24064	335.68348	132.61300	6.84255	0.0903087	2.3734024643303
(592450)	18.0	291.31963	305.10496	120.74118	5.14256	0.1187178	2.2883250643303
(592451)	18.3	291.33382	357.34779	47.72528	12.59470	0.1196757	2.4102874643304
(592452)	18.4	221.10118	117.80171	6.96574	5.14099	0.1736659	2.4374868643304
(592453)	17.9	182.91494	75.65621	121.87208	7.96436	0.0391034	2.2890462643304
(592454)	18.4	301.13312	282.65803	166.79921	6.84408	0.1856341	2.2964677643305
(592455)	18.1	28.78367	162.75045	161.15634	6.81052	0.1302795	2.3217145643305
(592456)	18.3	101.70562	63.77965	167.31785	7.49095	0.0948834	2.4172868643305
(592457)	18.5	290.17997	66.48648	353.24649	7.45589	0.1971785	2.3738045643306
(592458)	18.3	293.32268	137.46458	280.04309	5.89595	0.1162660	2.3734642643306
(592459)	17.5	246.22929	193.31955	197.74934	21.60461	0.0524596	2.5915479643306
(592460)	17.1	130.41009	34.80325	335.77586	1.27743	0.1571105	3.0129975643307
(592461)	18.1	250.55224	184.31077	292.26706	5.66377	0.0836234	2.3392005643307
(592462)	17.2	276.94963	68.36922	70.67902	23.14848	0.2674603	2.3347666643307
(592463)	17.7	326.00820	93.55328	283.39744	5.75326	0.1024806	2.3810434643308
(592464)	17.7	176.07759	248.31631	281.92073	12.85057	0.1560162	2.4147418643308
(592465)	18.1	231.70921	118.13871	358.05540	10.15730	0.0880042	2.3941832643308
(592466)	18.4	20.02438	246.22395	83.08801	3.55323	0.1799097	2.3348902643308
(592467)	18.1	16.76218	86.23030	231.50703	6.04559	0.1447667	2.4005136643309
(592468)	17.6	70.42251	161.31194	272.10826	0.50780	0.1503233	3.1246554643309
(592469)	17.9	222.42821	40.58723	98.25233	7.03800	0.0619301	2.3923548643309
(592470)	18.0	202.14005	213.52536	251.91251	1.68179	0.1479626	2.5475302643310
(592471)	18.7	252.89504	182.63026	264.48752	1.97980	0.1506828	2.4447850643310
(592472)	17.5	5.02417	221.07697	127.18267	7.81879	0.1258539	2.3620743643310
(592473)	17.4	27.72060	186.68776	144.26268	7.80161	0.1354856	2.3567146643311
(592474)	17.4	337.73507	322.53288	31.97800	13.97473	0.1450892	2.4613632643311
(592475)	17.0	242.68674	13.39459	117.78216	14.46333	0.0967307	2.5225470643312
(592476)	16.8	91.58698	91.31646	298.77151	8.43927	0.0832171	3.1551734643312
(592477)	18.1	196.87053	172.48560	308.05835	6.90217	0.0379712	2.4771571643313
(592478)	18.1	321.31104	102.73059	297.98687	5.49647	0.1182371	2.3533375643313
(592479)	18.7	253.75613	37.77088	58.83779	3.60102	0.1571088	2.4088560643313
(592480)	18.4	359.47671	345.88676	31.84087	4.74950	0.1121550	2.3097094643313
(592481)	18.0	112.12712	298.82344	308.79617	6.26783	0.0691506	2.3760887643314
(592482)	18.7	269.52657	5.43421	83.01537	6.04207	0.1937445	2.3823660643314
(592483)	18.5	321.47034	272.68256	124.14419	6.77604	0.1368839	2.3486071643314
(592484)	17.5	322.81197	244.25566	161.21416	11.82432	0.2117471	2.3273657643314
(592485)	18.5	299.49045	340.40855	76.90354	6.29053	0.2167310	2.3437765643315
(592486)	18.0	305.03185	254.31820	151.36714	6.36856	0.1248437	2.3697159643315
(592487)	6.0	57.63907	182.88042	177.11123	7.07043	0.0952660	45.2217595643316
(592488)	17.3	143.66990	267.23240	285.45060	13.98057	0.0871941	2.4441219643316
(592489)	18.2	255.36929	309.16455	139.55703	2.48401	0.1288762	2.4212011643316
(592490)	17.9	183.18894	140.23596	358.12609	4.36480	0.0758040	2.5220062643317
(592491)	17.5	171.73096	165.65533	345.73680	12.08718	0.0582014	2.5155454643317
(592492)	17.8	347.48373	255.33896	79.93631	7.17282	0.1469725	2.4242873643317
(592493)	18.3	264.37228	185.27016	265.99587	5.43265	0.0487188	2.3867479643317
(592494)	17.9	151.42355	176.96211	356.71654	7.80706	0.1051026	2.5591888643318
(592495)	18.5	164.17962	99.71856	66.97487	6.89823	0.0695447	2.4640386643318
(592496)	18.6	259.21324	230.28361	230.21837	6.40684	0.0671354	2.3909793643318
(592497)	18.4	285.34145	107.05124	333.99738	3.99895	0.2402370	2.3493053643318
(592498)	17.6	347.01799	294.77402	54.94915	8.61222	0.1474477	2.3964118643319
(592499)	18.3	351.10301	112.98689	257.16178	9.22668	0.1321126	2.3247547643319
(592500)	18.5	352.45124	262.56397	100.54840	3.81802	0.2030810	2.3427248643319
(592501)	17.7	113.15891	329.26677	262.76803	6.57858	0.1211860	2.4212602643319
(592502)	17.5	165.91053	152.83433	332.49832	10.54408	0.1600301	2.5882550643320
(592503)	18.1	32.75200	12.77256	290.57237	6.62965	0.0913459	2.4305914643320
(592504)	17.9	255.69498	95.37839	5.03812	2.69182	0.1585129	2.4690404643320
(592505)	17.5	167.69745	253.73652	280.52593	11.49160	0.1321709	2.5679593643321
(592506)	17.5	273.71085	206.68067	276.90299	5.59864	0.0772546	2.3846185643321
(592507)	17.8	296.29920	44.69932	36.77126	1.94369	0.1506362	2.3692851643322
(592508)	17.3	165.08785	41.54365	108.16359	14.73028	0.2009473	2.6231201643322
(592509)	16.2	171.55124	177.32450	7.01570	34.21222	0.1777755	2.6148413643322
(592510)	18.6	239.66589	32.02478	69.18240	4.02148	0.1466589	2.4516613643323
(592511)	18.0	253.13425	137.00034	347.10487	3.66714	0.1457207	2.3679867643324
(592512)	17.4	91.00317	283.92054	296.31598	8.96164	0.1289485	2.6798440643324
(592513)	17.9	275.52219	38.17757	8.65559	14.71430	0.0828300	2.5555979643324
(592514)	18.0	303.80841	44.84287	7.20104	6.51183	0.1000920	2.4461563643324
(592515)	17.4	147.35466	64.79860	104.78493	14.25852	0.1860397	2.6383632643325
(592516)	17.3	219.69011	43.45452	90.56237	14.22691	0.1295139	2.5751158643325
(592517)	17.5	72.93939	190.31602	30.26248	14.53293	0.1950214	2.6770602643325
(592518)	17.5	317.54652	342.10927	40.06933	15.35115	0.1160764	2.4570731643325
(592519)	17.5	242.09653	64.26659	21.65200	15.65182	0.1019799	2.5464896643326
(592520)	16.8	23.83182	235.64793	36.22666	17.38930	0.2094173	2.7711604643326
(592521)	17.4	79.97983	154.89621	97.90357	3.60349	0.1635315	2.5689080643326
(592522)	19.0	353.00414	11.93847	325.01305	20.69573	0.0527854	1.8323592643327
(592523)	14.3	3.35279	113.79760	152.12667	24.61395	0.0280144	5.2906153643327
(592524)	15.3	198.37267	10.14427	166.24748	11.43886	0.1037651	3.9670897643328
(592525)	16.9	110.28394	313.33511	112.85439	3.20620	0.0425309	3.0739092643328
(592526)	18.5	228.07901	343.60647	115.31913	4.82782	0.0612645	2.5332295643328
(592527)	15.5	286.66867	17.16526	107.74579	6.71801	0.2170642	3.9540084643329
(592528)	17.7	30.38262	193.03272	117.28498	12.84833	0.2710337	2.4666564643329
(592529)	18.9	303.64423	295.40418	102.49614	3.38651	0.1968686	2.4481461643329
(592530)	18.6	228.80892	337.77802	166.75267	2.64882	0.0401131	2.4234523643329
(592531)	17.4	103.97192	78.24744	128.37547	11.75869	0.2069551	2.6748824643330
(592532)	17.7	152.34987	302.54109	260.65102	4.81764	0.0325659	2.4774546643330
(592533)	17.5	341.54897	252.42366	124.94997	7.06007	0.1390603	2.4166056643330
(592534)	18.0	16.52909	245.00667	122.11903	4.69941	0.1812106	2.3328084643331
(592535)	18.0	96.58149	109.55697	114.38863	13.40864	0.1219961	2.6143846643331
(592536)	16.4	157.82925	210.13628	129.16863	24.76284	0.2084525	3.0487953643331
(592537)	18.1	110.99364	106.42058	95.53275	1.89705	0.1120045	2.6385999643332

(592538)	17.4	21.95556	149.34783	128.32235	9.50387	0.0600475	2.6550951643332
(592539)	17.9	311.38158	238.29490	131.45240	7.32360	0.0814176	2.5565973643332
(592540)	17.9	147.19171	317.83769	220.56581	1.34824	0.1255708	2.6051440643332
(592541)	18.5	303.48876	86.08366	320.01412	3.62070	0.1846360	2.4401796643333
(592542)	17.8	29.64925	232.97278	91.20782	5.63465	0.2335996	2.4513326643333
(592543)	17.7	116.04417	261.15086	332.58994	6.48685	0.1716245	2.5576455643333
(592544)	17.7	288.46671	140.32444	287.77098	2.80816	0.1175400	2.4577468643334
(592545)	18.2	281.48501	310.91197	120.95816	7.37549	0.1409849	2.4653070643334
(592546)	17.5	46.35591	225.48253	105.03697	4.41434	0.1899092	2.4046697643334
(592547)	18.1	213.09075	95.03524	22.45900	2.48069	0.1075830	2.5605885643335
(592548)	18.1	305.08989	296.47102	94.73898	3.26394	0.0567774	2.5203691643335
(592549)	16.9	22.30844	232.91251	111.13142	7.74651	0.1069362	2.4225136643335
(592550)	17.9	169.57949	345.72775	149.10757	12.17370	0.0264810	2.5507965643336
(592551)	17.6	293.07951	180.09605	238.17837	14.35623	0.0929841	2.4225991643336
(592552)	18.1	136.15006	310.50875	204.38402	12.78129	0.1913994	2.6681128643337
(592553)	17.9	286.21813	160.84730	263.13378	6.57256	0.0288593	2.5210738643337
(592554)	17.5	200.40475	219.44610	294.41352	15.02745	0.1652785	2.5367807643337
(592555)	17.5	163.63623	66.79733	91.70468	13.62166	0.0862176	2.6622522643337
(592556)	16.5	39.62123	187.17228	114.26498	14.31606	0.1854507	2.6454420643338
(592557)	16.9	72.97391	169.30643	108.54268	13.13615	0.1061189	2.6045483643338
(592558)	17.9	301.32781	272.59502	93.03064	7.24846	0.1078741	2.5583935643339
(592559)	18.2	8.19707	71.66668	322.61976	3.75469	0.2099809	2.2866171643339
(592560)	17.2	79.03178	229.92937	51.61929	15.73521	0.1035416	2.5500956643339
(592561)	17.9	217.24581	170.00253	339.94630	4.58579	0.1210438	2.4602808643340
(592562)	17.3	89.61388	270.92591	332.81249	10.87887	0.1409100	2.5898978643340
(592563)	17.8	70.19844	182.60114	73.39351	2.84871	0.1392103	2.5705347643340
(592564)	16.2	226.45018	347.00850	109.56722	29.10390	0.0905288	2.5789885643341
(592565)	18.1	83.79204	90.81340	150.51483	3.81047	0.0876627	2.5696108643342
(592566)	18.0	66.81278	293.48062	321.76116	2.52209	0.1895358	2.5965957643342
(592567)	18.2	334.88055	120.81452	265.84507	1.60050	0.1947584	2.3942352643342
(592568)	17.8	56.48200	328.35814	307.12945	6.32440	0.1376103	2.5353321643342
(592569)	17.2	131.71712	217.11051	35.98602	17.16249	0.1797293	2.5470162643343
(592570)	17.9	349.89841	17.53270	13.53424	5.73251	0.1371534	2.3711845643343
(592571)	17.7	299.69298	296.19285	123.53258	2.68850	0.1068003	2.4586400643343
(592572)	17.9	324.48091	98.30781	304.89987	13.90938	0.0751426	2.4436287643344
(592573)	17.7	95.52646	228.74071	346.98805	4.94971	0.1938452	2.6451735643344
(592574)	18.0	19.30927	269.31635	73.16971	5.92757	0.1306589	2.3993851643344
(592575)	17.9	219.99678	22.69085	108.45127	6.95089	0.1917051	2.5471060643345
(592576)	17.3	289.17932	98.54188	314.58435	30.78122	0.1033440	2.5501232643345
(592577)	17.4	302.49420	301.17321	141.85130	9.29177	0.1745195	2.4135487643345
(592578)	17.3	209.40467	236.67923	267.56610	5.97667	0.1900858	2.5476826643346
(592579)	17.1	93.10088	343.51160	254.04422	6.24847	0.1838470	2.6916449643346
(592580)	18.1	99.12898	180.67266	24.65420	2.82833	0.0709825	2.6836585643347
(592581)	17.1	319.99853	111.90866	289.73288	14.57836	0.1174698	2.5241940643347
(592582)	17.4	189.71700	239.33463	292.68118	11.91003	0.1100277	2.5839273643347
(592583)	18.4	282.84215	235.56403	185.26555	5.78704	0.1544107	2.4272893643348
(592584)	18.0	298.12657	241.99791	217.91270	9.39847	0.0521273	2.3120560643348
(592585)	17.8	95.45131	15.33217	202.07818	8.48100	0.1043372	2.5740445643348
(592586)	17.8	104.27490	9.88274	174.11441	9.00924	0.2181669	2.7029949643348
(592587)	18.2	268.47650	301.85602	122.80407	16.90771	0.1367268	2.5388445643349
(592588)	17.8	241.17028	263.49458	190.00557	7.84215	0.0584936	2.5531203643349
(592589)	17.1	108.02436	313.75323	288.39389	12.28293	0.1215679	2.5647714643349
(592590)	18.0	245.27418	110.15505	330.17392	10.23570	0.0701026	2.5783370643349
(592591)	18.2	211.33270	48.82102	62.64625	4.20432	0.0725868	2.5938875643350
(592592)	18.1	169.10278	95.81286	54.65089	3.61603	0.1080868	2.6348263643350
(592593)	18.0	339.64044	34.90788	351.46197	6.32279	0.1478842	2.4061217643350
(592594)	18.0	164.31056	323.29166	182.15492	2.61922	0.1867745	2.6556186643350
(592595)	17.9	195.72980	167.07662	323.47180	13.54118	0.1854051	2.6334313643351
(592596)	16.0	316.42195	326.47814	113.32978	3.54105	0.1140296	3.9543503643351
(592597)	18.8	35.64263	172.64525	134.85339	24.80910	0.0409920	1.8463474643351
(592598)	17.4	39.34508	0.55007	327.79829	5.11646	0.2084719	2.5183734643351
(592599)	18.4	53.46759	293.02410	350.24246	1.10640	0.0898321	2.5673541643352
(592600)	17.6	64.04873	116.04821	137.37325	12.05560	0.1783746	2.6313161643352
(592601)	17.5	55.34063	285.77837	0.60087	3.00455	0.2057454	2.5822758643352
(592602)	17.4	34.40429	155.68533	127.37364	14.84273	0.2407983	2.6743246643353
(592603)	17.8	27.73565	191.25046	120.85308	6.62461	0.1553988	2.5520852643353
(592604)	17.9	107.30390	257.20395	32.60538	6.39503	0.0846241	2.4126705643353
(592605)	17.4	252.46646	278.56527	99.37820	7.26242	0.0382368	2.7856419643354
(592606)	18.0	160.99293	63.84732	94.91723	4.13128	0.1525639	2.6517637643354
(592607)	17.9	76.41597	180.89810	85.00364	5.24427	0.1299359	2.6018061643354
(592608)	17.1	212.84750	6.81183	106.66393	11.42330	0.0725551	2.5953640643354
(592609)	17.6	100.10870	171.70049	71.64977	5.27914	0.1258170	2.5728254643355
(592610)	17.6	6.86959	39.92374	331.64270	5.17783	0.0905291	2.4151456643356
(592611)	17.6	8.18978	13.73458	311.18100	11.68022	0.1857978	2.5589984643356
(592612)	17.2	213.06310	57.05506	350.45606	8.28254	0.0892093	2.7810538643356
(592613)	17.8	57.68914	176.64305	110.02816	15.82312	0.0847309	2.5559980643356
(592614)	17.3	20.97193	343.83878	334.49847	13.35744	0.2067973	2.5586002643357
(592615)	17.9	35.57121	275.19035	12.43160	2.75059	0.0979892	2.6303678643357
(592616)	17.6	269.88765	278.12677	126.98643	12.27411	0.0442938	2.6253124643357
(592617)	18.0	131.88291	82.82349	118.40699	9.84339	0.0625330	2.6080998643358
(592618)	17.7	82.20161	277.04156	332.91688	8.06677	0.2956608	2.6831858643358
(592619)	17.5	109.72215	103.71233	102.40302	12.43182	0.1313395	2.6890426643358
(592620)	17.9	103.65676	267.64649	291.88183	1.97772	0.1177886	2.6041292643359
(592621)	17.3	294.66904	350.81059	88.36257	8.27085	0.0843820	2.3942206643359
(592622)	17.4	198.04985	108.34976	306.25456	5.80772	0.0189231	2.7644396643359
(592623)	18.1	16.33853	301.09052	2.08075	5.33001	0.0799184	2.5537589643360
(592624)	17.6	110.89172	58.47983	157.14891	11.29829	0.1521194	2.6101302643360
(592625)	18.2	215.25207	117.57138	66.23442	5.47851	0.0932976	2.3785913643360
(592626)	17.7	230.26169	150.70988	334.51017	7.32846	0.0524222	2.4734217643361
(592627)	17.6	158.57830	142.70711	44.80294	6.42101	0.1634970	2.5448846643361
(592628)	17.8	178.30878	67.52256	94.33960	15.93396	0.0734123	2.5329289643361
(592629)	17.9	53.83629	208.91120	52.59713	8.19736	0.1910969	2.5980353643362
(592630)	15.1	261.83000	161.42566	346.94212	7.95946	0.0872453	3.9591743643362
(592631)	17.8	67.24081	184.44961	72.12400	10.86619	0.1635871	2.5913288643362
(592632)	18.4	319.72856	53.61705	344.44862	6.96811	0.0950340	2.4253577643363
(592633)	17.9	189.03909	1.99636	138.96260	6.48889	0.1811098	2.5976233643363
(592634)	18.2	85.70140	10.56134	239.40934	4.80996	0.0398082	2.5777657643363
(592635)	17.1	80.89538	79.53460	140.40105	9.80278	0.1318066	2.7855184643364
(592636)	17.8	83.61375	89.51059	153.70047	12.38094	0.1480669	2.5924020643364
(592637)	16.5	47.30662	197.04899	132.21755	4.44502	0.1472611	2.5155233643364
(592638)	17.8	55.01717	59.28440	207.85650	11.86795	0.1176914	2.6184771643365
(592639)	17.7	119.98549	56.26940	155.30578	14.47636	0.1539040	2.6064407643365
(592640)	17.6	31.07809	56.33562	225.94405	12.16519	0.1623599	2.6580189643365
(592641)	17.7	292.37567	186.85783	221.01524	11.70412	0.0715953	2.5350958643366

(592642)	17.1	185.48058	307.20017	213.36042	11.27719	0.1232585	2.5593704643366
(592643)	16.9	112.30715	86.49672	137.47038	13.59262	0.1211770	2.6716776643366
(592644)	17.9	251.37974	323.62928	152.12867	15.52684	0.0685988	2.5292171643367
(592645)	16.8	120.07257	245.15749	344.64246	15.75198	0.2161416	2.6754138643367
(592646)	17.1	247.51006	307.15343	154.58860	22.10071	0.0807295	2.5890344643368
(592647)	18.1	177.59761	140.44706	14.23339	5.28593	0.1366153	2.6663624643368
(592648)	17.9	0.99284	6.50315	353.22769	8.17069	0.1416852	2.3960889643368
(592649)	17.1	60.18211	202.92533	43.05924	13.67192	0.1233154	2.6446665643369
(592650)	17.5	196.59414	18.79516	104.94206	15.76662	0.0530609	2.6167408643369
(592651)	17.6	301.14591	348.84395	97.98300	13.09473	0.1991277	2.3801612643369
(592652)	18.1	352.96903	198.97224	171.11080	6.95774	0.1177591	2.2971266643370
(592653)	18.1	102.27435	83.06476	143.14088	8.95236	0.1490673	2.6903843643370
(592654)	18.1	96.58313	207.90430	27.47946	4.45320	0.1294330	2.6134626643370
(592655)	18.5	347.53770	33.96822	5.01593	2.52773	0.1680711	2.3693291643371
(592656)	17.4	8.37779	172.05737	120.40835	6.15960	0.0455622	2.6841153643371
(592657)	18.5	332.29366	326.55289	55.59302	5.23196	0.2130569	2.4481259643371
(592658)	17.7	177.28772	30.55453	113.97171	4.41358	0.0312404	2.6210767643371
(592659)	17.8	342.90724	4.52355	333.84547	7.53636	0.0697548	2.6154746643372
(592660)	18.0	2.43047	19.70201	339.46996	0.85324	0.1745819	2.4363759643372
(592661)	18.4	29.43434	322.01610	69.15479	7.03812	0.1119752	2.3135814643372
(592662)	18.1	19.60414	339.71225	13.07621	2.76910	0.1991647	2.4174916643373
(592663)	16.7	220.11400	349.10267	308.28667	10.43762	0.0628692	3.2046482643373
(592664)	17.8	171.55279	30.22585	127.20267	7.35908	0.1624722	2.6161431643373
(592665)	17.8	308.38451	239.69835	137.59612	15.57290	0.1191570	2.5791557643374
(592666)	18.0	188.32296	42.10809	92.11582	3.10638	0.0301991	2.6301998643374
(592667)	17.1	81.28447	276.98650	331.11495	10.65716	0.1501365	2.6677355643374
(592668)	17.8	37.28654	196.39000	101.02177	4.34122	0.1497646	2.5943938643374
(592669)	17.6	37.99634	211.70537	80.80314	4.38489	0.0724041	2.6052414643375
(592670)	17.8	49.59923	191.07286	96.01891	9.21457	0.1767532	2.6160288643375
(592671)	18.1	81.28238	113.34172	114.90908	4.48013	0.0318804	2.6531360643376
(592672)	18.2	145.26946	221.37480	78.87610	7.26608	0.1450366	2.3017270643376
(592673)	17.8	134.43170	228.40039	307.44510	3.52700	0.0916521	2.6905654643376
(592674)	18.2	350.33078	44.47388	291.31667	1.32425	0.0349174	2.6250228643376
(592675)	17.2	84.27790	309.64910	324.28319	14.47831	0.1133437	2.5544792643377
(592676)	17.6	71.82749	223.52876	32.30602	2.78259	0.0808589	2.6430634643377
(592677)	18.2	264.93915	66.04659	6.43566	3.28229	0.1322871	2.5462303643377
(592678)	17.7	93.87312	184.51275	51.03188	3.58185	0.1463029	2.6751629643378
(592679)	18.0	239.46442	341.45533	114.64392	9.06648	0.0687092	2.5842354643378
(592680)	17.5	13.70659	161.87575	123.43881	6.98178	0.0832760	2.7597181643378
(592681)	17.9	274.94839	284.69878	138.48941	15.02753	0.0905489	2.5676829643379
(592682)	18.1	219.62686	333.86404	128.45366	7.33361	0.0810473	2.6392733643379
(592683)	18.1	87.64757	242.10786	346.11147	4.11608	0.0451501	2.7007196643379
(592684)	18.1	142.30509	66.78142	117.97100	5.66591	0.1068202	2.6638211643379
(592685)	17.7	49.82292	218.95808	45.25667	4.04840	0.1541474	2.7473010643380
(592686)	17.4	18.83746	190.19064	129.26971	15.67827	0.1264214	2.6196747643380
(592687)	18.3	0.15073	323.78786	64.05768	4.98971	0.1827167	2.4108983643380
(592688)	17.6	37.30358	280.06377	349.04218	4.36214	0.1219259	2.7656770643380
(592689)	17.8	42.32391	203.25933	109.58619	4.41051	0.1721672	2.5869127643381
(592690)	17.6	112.44574	67.95476	143.30788	7.69072	0.1022525	2.6672031643381
(592691)	18.1	161.48548	28.33916	142.58094	14.21543	0.0497873	2.6273539643381
(592692)	17.9	59.53123	111.21053	147.78951	2.74579	0.1166227	2.6679337643382
(592693)	17.5	74.65364	94.08688	146.55213	12.73382	0.2185378	2.7230309643382
(592694)	18.4	326.38032	256.82773	154.29075	3.02215	0.2072017	2.3930470643382
(592695)	17.5	51.23095	141.25575	127.17778	7.14476	0.1948049	2.7044369643382
(592696)	18.5	267.79999	302.20776	130.87284	5.60610	0.0436443	2.5589702643383
(592697)	17.7	69.98567	326.35367	307.98872	5.79120	0.0506865	2.5771266643383
(592698)	18.2	82.77000	91.16155	144.99444	6.98450	0.0337417	2.6269399643383
(592699)	14.3	276.55902	88.22579	19.36737	31.82307	0.0608305	5.1907837643384
(592700)	19.4	308.12140	215.83543	169.21521	23.61774	0.0066910	1.8839172643384
(592701)	18.0	56.66598	356.10579	278.48122	0.78199	0.1422392	2.6381340643384
(592702)	17.1	178.57662	273.75746	236.55598	13.57670	0.0850229	2.6678652643384
(592703)	17.9	158.71299	288.45319	214.13144	10.61063	0.1425224	2.6944192643385
(592704)	17.1	83.45183	260.28710	325.81076	12.38996	0.0494441	2.7698825643385
(592705)	17.8	309.01527	160.65018	241.41537	14.15730	0.0886468	2.5454326643385
(592706)	17.8	28.75074	172.41964	126.05543	5.13524	0.1118249	2.6365749643385
(592707)	17.4	60.80856	313.89699	345.96080	5.97977	0.1100782	2.5707469643386
(592708)	17.4	86.39808	87.19785	154.94914	12.99628	0.0729884	2.7376218643386
(592709)	17.9	137.66827	240.83541	308.96550	10.28239	0.0810997	2.5545297643386
(592710)	17.1	145.76039	327.18319	209.05316	17.63120	0.1131583	2.6717947643387
(592711)	18.2	323.51963	99.43004	268.55000	5.75434	0.0988753	2.5500423643387
(592712)	16.7	68.79631	13.56326	272.80674	7.60738	0.0974366	2.6025870643387
(592713)	17.6	10.88369	273.54791	35.47671	14.99802	0.1081140	2.6598734643388
(592714)	18.8	217.36806	258.05156	156.27806	22.38432	0.1274406	1.9198656643388
(592715)	17.8	121.20875	307.15876	230.27907	8.54496	0.1098446	2.6233898643388
(592716)	17.0	44.99162	31.60595	247.76245	14.68986	0.1877898	2.7040579643389
(592717)	14.5	239.40705	148.24132	343.83475	21.92525	0.0804289	5.2006382643389
(592718)	18.2	256.59039	92.99500	11.44837	21.09080	0.0553611	1.8634819643389
(592719)	17.9	4.61869	274.31879	54.19127	6.71807	0.0481166	2.6727559643389
(592720)	17.8	149.50693	289.13744	280.85201	5.88680	0.2347637	2.6365756643390
(592721)	17.8	323.76090	300.82277	51.42018	4.53175	0.0075692	2.7468854643390
(592722)	17.4	114.62113	120.39559	101.89999	13.47451	0.1914108	2.6030833643390
(592723)	18.0	277.57410	283.28774	141.44304	14.47156	0.0063575	2.5217405643390
(592724)	17.9	298.02246	161.95016	218.88902	5.57598	0.0201050	2.7406737643391
(592725)	17.6	223.98468	135.72805	307.15670	5.31410	0.0401816	2.7892429643391
(592726)	17.6	97.00514	287.82646	300.69376	10.62364	0.1610128	2.6596809643391
(592727)	18.1	290.62537	219.52982	280.15779	0.23635	0.1235894	2.2962396643391
(592728)	18.5	284.15745	90.99388	45.34838	3.35863	0.1804277	2.3411091643392
(592729)	18.0	179.46498	346.57408	163.37691	2.52980	0.1232798	2.6276269643392
(592730)	16.1	61.23489	232.09995	351.53544	14.58867	0.0939454	2.8434788643393
(592731)	18.2	258.24790	325.07332	138.65221	4.12502	0.1693098	2.4722858643393
(592732)	15.9	317.71473	295.49233	166.87161	4.54674	0.1160031	4.0109345643394
(592733)	17.4	218.61209	61.69307	66.05628	5.91953	0.1887584	2.5411797643394
(592734)	18.0	185.54254	305.96106	227.35000	2.98676	0.1383023	2.5441050643395
(592735)	17.6	91.94243	302.23726	309.77845	11.95921	0.1611779	2.6296224643395
(592736)	17.2	177.71217	137.42589	34.58316	8.23749	0.1292040	2.5509259643395
(592737)	17.4	202.65579	319.67181	155.58223	16.97167	0.1046995	2.6520897643396
(592738)	17.1	73.54989	271.25271	347.66955	16.79925	0.1449096	2.7269510643396
(592739)	17.2	26.85665	10.01696	317.20805	3.17956	0.1075659	2.5399139643396
(592740)	18.1	171.05240	37.61382	129.51799	3.55943	0.0366151	2.5894330643397
(592741)	17.3	357.34615	218.19572	127.12074	16.11038	0.1611838	2.5443070643397
(592742)	18.4	221.98957	118.16926	358.29855	5.94316	0.2039351	2.5357654643397
(592743)	17.8	260.02943	109.30208	353.34219	6.68991	0.1043973	2.4609065643398
(592744)	17.5	141.68637	152.35248	31.63993	7.90431	0.1157046	2.6031054643398
(592745)	17.9	264.24084	310.49335	124.33267	5.32799	0.0339162	2.5503429643398

(592746)	17.1	63.04904	295.86323	324.05394	11.19636	0.1862726	2.7559930643399
(592747)	17.2	65.51142	2.03371	286.21610	3.74034	0.0488937	2.5946874643399
(592748)	18.1	231.25269	130.41521	340.73385	2.66655	0.1362689	2.5869084643399
(592749)	17.8	144.22299	35.97176	167.06804	3.60012	0.1029090	2.6359597643400
(592750)	18.4	97.35092	26.76902	168.07279	23.74303	0.0645567	1.9479389643400
(592751)	13.5	220.92098	177.49087	328.81529	11.00459	0.0457249	5.2249077643400
(592752)	17.3	237.81596	109.56159	337.49680	13.30117	0.1835033	2.6518613643401
(592753)	18.4	267.02233	46.02388	355.10244	23.36370	0.0482345	1.9263175643401
(592754)	17.3	236.78903	134.98966	356.18603	15.41487	0.0818879	2.5617371643401
(592755)	17.6	181.39112	145.85586	359.52244	8.92434	0.0896546	2.6915714643402
(592756)	18.6	316.39492	199.73941	175.10385	23.80609	0.0440719	1.8975302643402
(592757)	17.1	83.61563	266.55204	27.40533	1.05694	0.0759227	2.5715641643402
(592758)	17.4	138.21333	67.37079	148.22819	11.27522	0.0755839	2.6064873643403
(592759)	16.9	262.10528	340.49301	127.33031	8.71897	0.1437087	2.5182423643403
(592760)	17.5	348.32931	188.56599	173.02515	3.81370	0.1071714	2.5774385643404
(592761)	17.8	89.21436	106.85401	111.64682	6.31025	0.0115232	2.6984649643404
(592762)	17.6	110.55853	69.96227	145.40307	13.40111	0.1135777	2.6300054643404
(592763)	17.4	179.67338	139.39615	24.45687	12.90490	0.1482881	2.5246145643405
(592764)	18.5	329.85730	276.00229	110.41027	5.18524	0.2402131	2.4179586643405
(592765)	17.3	237.29167	309.21180	95.80010	4.73745	0.1020711	2.6972998643405
(592766)	17.5	65.58068	137.81249	118.82682	4.35124	0.1191192	2.6413111643405
(592767)	18.0	270.88030	276.94351	138.15050	9.27111	0.0390388	2.5858875643406
(592768)	16.6	98.83779	107.85777	136.19589	13.10451	0.1304525	2.5605595643406
(592769)	18.0	72.76207	218.98687	7.19205	2.04276	0.1080431	2.7297208643407
(592770)	18.2	221.28011	62.64916	47.42589	3.15105	0.0835827	2.6210849643407
(592771)	17.8	252.56485	89.29376	353.48242	8.83824	0.0741964	2.6047472643407
(592772)	17.8	30.26734	272.90213	32.84270	3.12173	0.0836704	2.6499177643407
(592773)	17.5	355.66076	202.49052	137.19306	11.13462	0.0601689	2.6358203643408
(592774)	17.5	12.27017	211.12040	126.92330	9.50611	0.1315775	2.5974384643408
(592775)	17.8	86.43628	220.36493	12.58499	5.13878	0.1034418	2.7296857643409
(592776)	17.4	17.84341	218.00738	132.42720	7.08379	0.1855598	2.5342858643409
(592777)	17.5	49.97533	250.39748	15.92916	11.47406	0.2023246	2.7877187643409
(592778)	17.2	55.67799	216.29188	84.45830	8.67144	0.1594784	2.6288036643410
(592779)	17.5	112.04466	256.93666	16.68847	10.88209	0.1126800	2.5299328643410
(592780)	17.3	2.98978	283.26645	60.06198	6.42165	0.1431649	2.6222579643410
(592781)	17.5	180.12772	4.16252	139.48011	13.40690	0.1134943	2.6804869643411
(592782)	17.9	65.48113	201.90502	66.20441	4.94911	0.0483788	2.6805656643411
(592783)	17.5	58.28452	166.78333	100.19552	6.04075	0.1003097	2.7342763643411
(592784)	17.7	84.53173	115.13255	131.87247	10.21125	0.0903328	2.7077204643412
(592785)	17.9	27.16238	262.47055	50.71784	3.75199	0.1310170	2.6344713643412
(592786)	17.9	271.90948	317.13880	108.08677	6.55840	0.2396781	2.5479627643412
(592787)	17.8	20.59636	195.43677	119.07935	7.44571	0.0570942	2.6589237643413
(592788)	17.5	91.74259	132.13836	104.21407	8.13506	0.1319164	2.7276755643413
(592789)	17.8	86.85347	286.46305	307.53563	2.61720	0.1008905	2.6916571643413
(592790)	16.8	92.80535	305.49196	317.88181	8.15002	0.0760748	2.5658213643413
(592791)	17.7	146.96013	43.65917	143.70379	14.97465	0.0589216	2.6266670643414
(592792)	18.1	345.97260	58.67795	340.62311	6.99692	0.1159630	2.4186595643414
(592793)	17.5	3.17818	239.48113	102.48346	6.05160	0.2709962	2.5534635643414
(592794)	17.9	64.98785	133.33337	115.27602	4.40857	0.1440725	2.7478358643415
(592795)	18.4	199.54497	81.59893	59.52377	0.70911	0.0288287	2.5961153643415
(592796)	17.0	18.48601	199.47494	138.99638	11.75222	0.0659964	2.5578928643415
(592797)	17.5	65.44190	262.01514	341.56469	8.78754	0.0829522	2.7530511643416
(592798)	18.0	114.01255	43.54959	151.57547	9.69926	0.1380463	2.7525248643416
(592799)	17.5	78.42771	296.78685	331.80396	3.76414	0.0861402	2.5967688643416
(592800)	17.9	50.94995	256.97273	11.72563	2.95067	0.0342364	2.6842066643417
(592801)	17.3	150.19581	65.00544	109.77505	13.53374	0.0902578	2.6367385643417
(592802)	17.6	311.85604	281.79476	87.43112	12.49991	0.0941321	2.6070056643417
(592803)	17.4	159.36846	71.57634	101.70669	13.38362	0.1170222	2.6200741643418
(592804)	17.6	110.67596	202.44373	26.58677	10.05698	0.0888118	2.6099462643418
(592805)	16.8	79.35894	195.99612	79.20368	9.54832	0.1632447	2.5748776643418
(592806)	16.1	36.90191	192.51087	112.11510	13.20463	0.1631801	2.6972405643419
(592807)	16.7	275.40850	264.74641	81.80437	9.72771	0.0021949	2.9660142643419
(592808)	14.5	299.98408	13.96847	61.35297	18.17441	0.0160156	5.1409043643420
(592809)	16.9	109.60105	126.71625	105.74878	14.54848	0.1481614	2.7091774643420
(592810)	17.0	356.35306	234.67857	126.16627	16.07924	0.1986175	2.6305107643420
(592811)	17.0	139.16315	183.95704	29.90822	14.48823	0.1176625	2.6517331643421
(592812)	17.4	226.19560	4.87931	141.70802	15.18048	0.0439760	2.5646131643421
(592813)	14.0	291.43370	13.52950	70.04516	19.54333	0.0971915	5.1494665643421
(592814)	17.1	236.38230	44.90845	91.48969	12.35418	0.0742163	2.5604185643422
(592815)	17.3	296.39214	344.73413	92.12541	13.05557	0.1459193	2.5332112643422
(592816)	17.8	215.95939	11.25109	123.99454	14.39713	0.2131507	2.5960874643422
(592817)	17.3	104.12593	163.55738	77.00913	10.74374	0.1683020	2.7160426643423
(592818)	17.3	189.98252	110.21879	19.35039	12.12666	0.1356728	2.6685711643423
(592819)	17.1	13.13926	165.23247	160.13145	18.30929	0.2149735	2.5496586643423
(592820)	17.1	68.48016	354.83569	267.50277	7.72587	0.1097570	2.5933137643424
(592821)	17.5	79.11911	44.20137	213.93205	4.13019	0.0703465	2.5708155643424
(592822)	18.1	210.84576	302.07103	181.13349	7.83758	0.2144244	2.5533710643425
(592823)	18.2	288.12144	180.74561	272.25443	3.52651	0.1288253	2.4070148643425
(592824)	17.4	118.01493	354.13505	206.05273	12.46488	0.1364817	2.6875476643425
(592825)	17.4	58.53671	140.05598	121.95342	3.14101	0.1942576	2.8000809643426
(592826)	17.4	177.82584	143.97909	5.29915	13.71673	0.1525542	2.6755776643426
(592827)	19.0	188.02800	124.23287	350.27533	18.84219	0.0861538	1.9161861643426
(592828)	17.9	152.40665	209.54267	352.30744	20.04464	0.0685116	1.8598253643427
(592829)	17.8	310.11466	229.69288	143.74909	6.61036	0.0430459	2.7018305643427
(592830)	17.9	98.74986	96.76499	142.98024	7.01827	0.0318563	2.6697021643428
(592831)	17.7	115.27951	21.78541	201.77716	14.14859	0.0500536	2.5642675643428
(592832)	16.9	245.82030	180.32503	289.40955	12.77756	0.1210112	2.5697823643428
(592833)	17.1	186.91973	268.29945	274.56060	11.64035	0.1122162	2.6198506643429
(592834)	17.5	48.59619	274.24002	9.56481	11.97811	0.2245667	2.7160704643429
(592835)	17.8	227.01289	76.00967	22.37821	14.43067	0.0576468	2.6403489643429
(592836)	16.5	22.49791	229.31383	109.41739	15.92971	0.1633403	2.5795332643430
(592837)	17.3	121.61662	163.64252	37.95834	11.84413	0.0675178	2.6154286643430
(592838)	17.5	183.78328	215.10543	313.64644	13.18684	0.1973161	2.6088295643430
(592839)	17.1	133.78186	304.99966	266.15103	8.15910	0.1254718	2.6468695643431
(592840)	16.9	128.26500	294.76041	240.31480	13.45193	0.2805320	2.8013190643431
(592841)	16.9	51.27515	160.11992	144.31604	14.59985	0.2006355	2.7913490643432
(592842)	17.9	251.12024	104.15949	341.98150	3.92759	0.1403916	2.6140230643432
(592843)	14.0	342.27901	208.43319	176.22510	25.03095	0.0255190	5.1965202643432
(592844)	17.7	178.15882	199.26587	326.41736	3.42730	0.0961570	2.6394448643433
(592845)	17.5	204.07430	269.18542	213.11716	8.59170	0.0454782	2.7035874643433
(592846)	17.7	231.72983	152.69502	338.14582	13.22039	0.1573311	2.5601326643433
(592847)	16.9	95.90225	289.22678	316.60411	8.43961	0.0585305	2.7084505643434
(592848)	17.4	90.96434	279.75834	331.86300	8.25781	0.1784537	2.7498048643434
(592849)	17.6	344.03184	51.73108	355.61082	6.57431	0.1080515	2.4437182643434

(592850)	17.9	231.57292	331.19385	162.17658	6.53770	0.1132036	2.5316609643435
(592851)	17.2	233.49280	21.93165	99.41456	6.71301	0.2509010	2.5528817643435
(592852)	18.5	30.22299	99.04808	194.71558	21.47450	0.0887269	1.9638240643435
(592853)	19.0	114.27895	270.38139	300.36006	17.71317	0.0729754	1.9232933643436
(592854)	16.5	331.24491	257.84891	131.19364	15.46527	0.1013052	2.6825329643436
(592855)	17.8	119.17504	175.93535	10.16693	2.44988	0.0683510	2.7554779643436
(592856)	17.4	81.09165	161.80475	70.12983	14.16791	0.0777783	2.7338369643437
(592857)	18.5	258.13129	285.81273	178.67865	9.15603	0.1764236	2.5485210643437
(592858)	17.8	204.99053	303.73443	181.48875	13.03793	0.1980783	2.6211393643437
(592859)	18.0	113.48517	143.59314	81.06121	5.12230	0.0293881	2.6419502643437
(592860)	17.3	118.60955	335.54515	222.90241	15.15087	0.1167111	2.7442277643438
(592861)	17.5	19.56899	228.41774	60.43738	11.42220	0.1725369	2.9646267643438
(592862)	17.6	75.37662	132.83794	106.73705	1.48082	0.0110538	2.7715812643438
(592863)	18.2	287.99116	224.12211	205.68682	22.43000	0.0553640	1.8571089643438
(592864)	17.8	97.80676	51.94336	185.88100	9.71317	0.0776386	2.6940198643439
(592865)	14.3	291.32554	254.77139	186.10210	37.92607	0.0515906	5.2862035643439
(592866)	18.3	213.34497	270.70832	226.36116	1.49855	0.0806662	2.6099823643439
(592867)	17.4	40.67775	348.34378	293.58354	8.39228	0.1556568	2.7645970643439
(592868)	18.0	227.20381	232.58330	213.52497	1.27506	0.0245733	2.7187258643440
(592869)	17.3	35.67270	359.09796	287.77987	12.08159	0.0931106	2.7464342643440
(592870)	17.9	75.06591	156.31794	79.25468	5.42636	0.1444950	2.7799889643440
(592871)	17.7	76.12851	300.59130	318.55151	2.11956	0.1936952	2.7644764643440
(592872)	18.0	44.25252	223.43022	84.72897	7.01141	0.1825489	2.6515412643441
(592873)	17.9	205.38710	99.70297	2.90106	5.49198	0.0586307	2.7490860643441
(592874)	17.6	41.75520	3.71614	278.70336	3.76842	0.0944882	2.7623733643441
(592875)	14.2	337.16989	313.32638	88.49232	17.15380	0.0961392	5.1116899643441
(592876)	17.4	16.78733	214.59365	97.59659	6.21990	0.1109252	2.7189957643442
(592877)	17.4	255.12457	55.51135	70.68845	15.24902	0.0594610	2.4746558643442
(592878)	17.2	206.97237	151.90605	352.06853	15.28808	0.2371571	2.5815768643442
(592879)	17.9	244.02464	7.16688	49.91655	4.76076	0.0512537	2.7537137643443
(592880)	17.9	37.85421	186.37372	97.16814	24.04524	0.0668872	1.9104513643443
(592881)	16.9	147.81929	190.10756	350.96355	12.90038	0.0784036	2.6742534643443
(592882)	17.9	256.76001	304.87706	165.56211	13.56897	0.1047325	2.5380447643444
(592883)	17.2	72.46240	154.62471	126.07837	11.90884	0.1891593	2.5753325643444
(592884)	17.4	73.59006	270.94919	337.23509	12.20267	0.1525692	2.6894265643444
(592885)	17.3	63.52033	205.65940	65.09049	6.09594	0.1788802	2.6443487643445
(592886)	17.4	151.86036	125.32538	64.66183	4.89322	0.0606647	2.5816222643445
(592887)	17.7	215.99175	50.76461	84.53458	4.52916	0.1446386	2.5357846643446
(592888)	18.7	143.38270	217.14965	340.72591	19.03313	0.0448316	1.8529739643446
(592889)	17.9	163.89135	63.83748	96.22492	6.05301	0.1088740	2.6469641643446
(592890)	17.9	234.83730	347.16149	117.53738	8.67452	0.1393039	2.5541507643446
(592891)	18.1	244.61381	297.26076	138.88963	5.98942	0.0520584	2.6471816643447
(592892)	17.9	87.52647	185.07449	34.67306	1.72128	0.1629397	2.7791121643447
(592893)	18.2	229.70455	322.10545	137.55686	2.76284	0.0947338	2.6187615643447
(592894)	18.1	300.08140	204.74576	232.26261	1.56042	0.1924646	2.4414163643448
(592895)	17.1	325.42805	233.92460	153.49426	15.40398	0.1379401	2.5387718643448
(592896)	17.9	338.00325	215.58294	145.09146	9.76542	0.0715692	2.6166390643448
(592897)	17.6	12.70551	173.59049	145.36979	6.93452	0.0999012	2.6646530643449
(592898)	17.6	216.24272	337.75881	112.94888	5.31263	0.0914540	2.7026827643449
(592899)	17.8	207.13060	276.17349	198.66176	4.90821	0.1123512	2.6586860643449
(592900)	18.0	166.79221	289.40647	225.18100	5.03124	0.1365928	2.6711251643450
(592901)	17.1	42.38767	161.56968	170.34021	14.40738	0.1223897	2.5134856643450
(592902)	17.8	88.65816	252.81837	338.44685	6.72730	0.2147010	2.7652832643450
(592903)	17.4	25.68338	134.97342	184.97970	9.22521	0.0754976	2.6292834643450
(592904)	16.7	130.26942	326.06185	284.27513	13.92325	0.0745425	2.6262248643451
(592905)	16.7	162.22580	280.84447	241.43060	24.21488	0.1040581	2.7533766643451
(592906)	16.4	275.83020	145.27917	290.78169	13.28170	0.0445903	2.5374543643452
(592907)	17.4	190.84694	298.92155	236.63400	8.57701	0.1436129	2.5801309643452
(592908)	18.2	250.64743	321.41797	125.98323	9.43703	0.2062318	2.5225735643453
(592909)	19.3	165.08526	180.51301	345.35799	18.90083	0.0452668	1.8589397643453
(592910)	17.3	45.22467	326.91304	352.36350	13.66146	0.1246633	2.5124794643453
(592911)	17.3	56.15432	199.30639	91.83691	17.26064	0.2549299	2.7837475643453
(592912)	18.4	30.24287	95.35497	212.49423	20.19456	0.0810973	1.8873495643454
(592913)	19.2	231.87689	298.64014	189.45552	26.27567	0.2576082	1.8409336643454
(592914)	16.9	68.54412	215.38221	61.54140	15.07267	0.2845141	2.6123237643454
(592915)	17.1	23.82414	186.82637	135.89705	14.52163	0.1967037	2.5307945643455
(592916)	17.2	43.98576	195.79750	73.30445	12.92907	0.0348830	2.7977762643455
(592917)	17.1	62.19188	154.04774	128.18435	15.26324	0.1896815	2.7473357643456
(592918)	17.2	311.03187	267.37274	130.31213	15.23487	0.1241079	2.6366946643456
(592919)	17.5	59.74713	124.61883	153.45698	20.84848	0.1942266	2.7812125643457
(592920)	17.2	313.87764	341.06479	42.95631	14.29286	0.1026598	2.6825132643457
(592921)	14.4	198.41900	82.21625	105.06360	19.49831	0.0378907	5.1909113643457
(592922)	14.2	319.37023	318.62790	99.26105	15.34295	0.0734274	5.2553242643457
(592923)	16.8	13.32101	273.66755	81.78446	13.23405	0.2788825	2.6313856643458
(592924)	17.4	124.97052	118.85122	88.30269	11.31127	0.0830188	2.7353187643458
(592925)	17.3	117.20151	197.20998	59.40065	14.00323	0.1264147	2.6241805643459
(592926)	17.4	60.69204	216.84737	62.83794	13.97884	0.1562017	2.7632161643459
(592927)	14.3	180.69765	68.02657	137.72856	16.38036	0.0324067	5.2182896643459
(592928)	17.2	187.24776	100.10662	102.85215	14.97986	0.0206264	2.5483414643459
(592929)	17.7	229.24213	35.48542	83.80118	14.22156	0.1935734	2.6158994643460
(592930)	16.5	329.95774	229.25141	96.75934	14.22822	0.1963977	2.9183544643460
(592931)	14.4	292.44647	1.53045	84.47578	16.15810	0.0296251	5.2335301643460
(592932)	17.2	319.94061	260.47664	85.66486	15.53401	0.1316811	2.7213855643461
(592933)	17.4	287.05823	2.06030	57.66847	12.87552	0.1478010	2.5421364643461
(592934)	18.2	331.05060	1.26362	25.27178	22.64014	0.0945098	1.8517374643461
(592935)	18.5	23.80502	358.77485	317.56551	19.15844	0.0929870	1.8792670643461
(592936)	16.8	318.34053	200.77475	209.60153	21.63608	0.0583447	2.6691321643462
(592937)	17.6	230.61320	286.51457	204.14267	3.56654	0.1437081	2.6172362643462
(592938)	17.6	187.76245	338.06225	161.03328	14.32950	0.1091422	2.6111661643462
(592939)	18.2	174.97864	300.86003	212.65105	3.39529	0.1139027	2.6326253643463
(592940)	19.2	25.66475	104.33588	164.40083	22.97025	0.0546628	1.9286451643463
(592941)	17.4	56.40273	35.67444	233.64483	12.50917	0.2109140	2.7137059643463
(592942)	17.2	21.95007	46.96127	271.13682	13.19219	0.1202246	2.6083278643464
(592943)	17.1	3.43246	104.27421	234.63288	11.22908	0.1479829	2.5898413643464
(592944)	16.7	60.18720	44.72186	263.75450	13.75438	0.1279070	2.5978077643464
(592945)	17.1	17.22713	108.75775	249.24822	11.73375	0.2017096	2.5638007643465
(592946)	13.7	89.23447	222.95287	83.54534	24.88445	0.0218691	5.1709031643465
(592947)	17.5	68.47086	38.54008	234.71408	1.70132	0.1542979	2.7928751643465
(592948)	14.1	259.49684	269.10059	208.79038	16.66083	0.1379387	5.2949363643465
(592949)	17.6	232.04747	85.60708	29.78859	10.52491	0.1584062	2.6677508643466
(592950)	18.0	243.85365	336.19254	145.30696	5.35514	0.2529437	2.5734698643466
(592951)	17.2	41.31893	256.46290	51.90907	12.10387	0.0975077	2.7747969643466
(592952)	17.8	69.32522	14.06234	232.01106	12.42321	0.1168423	2.7425518643467
(592953)	17.8	6.10220	119.44354	217.06127	13.27498	0.0691926	2.6030741643467

(592954)	17.7	236.90677	208.49550	265.81146	8.79333	0.0440197	2.5782291643467
(592955)	17.8	144.92300	278.12223	258.21124	6.96753	0.1499205	2.7373762643467
(592956)	17.0	246.19581	140.83012	330.89639	13.25333	0.1049485	2.5839969643468
(592957)	17.6	182.35527	254.51955	278.19145	4.77140	0.0163344	2.6255438643468
(592958)	16.6	350.34075	58.49588	294.29722	5.39757	0.0295166	2.6767696643468
(592959)	17.6	217.44919	160.46505	342.54215	14.04882	0.0540239	2.6108979643469
(592960)	17.7	71.00973	21.55066	229.14976	6.11621	0.0830437	2.7966020643469
(592961)	17.3	148.39896	329.15730	219.61611	4.33634	0.0008649	2.7116355643469
(592962)	17.5	31.40937	81.17483	215.79221	5.68540	0.0130072	2.7510873643470
(592963)	17.7	8.22004	38.40700	291.09650	2.38648	0.0986813	2.7392287643470
(592964)	16.0	271.13756	67.66427	32.98788	14.97702	0.0696162	2.5927537643470
(592965)	17.5	147.26523	358.57702	189.24324	3.69840	0.1452643	2.6718933643471
(592966)	17.9	91.54283	44.91525	202.82242	4.93406	0.0667520	2.7036359643471
(592967)	18.5	318.48631	15.06413	22.42243	25.08881	0.0773077	1.8619317643472
(592968)	21.6	172.19402	267.51363	98.55991	6.23821	0.5839149	0.8582584643472
(592969)	17.8	87.57111	203.44559	40.97072	4.01102	0.1430668	2.7469297643472
(592970)	17.5	186.11524	76.24259	80.32958	6.89486	0.0510513	2.6738484643472
(592971)	16.7	74.88558	351.39274	264.62776	13.04275	0.1707695	2.6394068643473
(592972)	17.8	70.18504	21.67053	234.81982	9.52914	0.1428435	2.6682013643473
(592973)	16.9	22.49514	49.98089	273.68558	15.90604	0.1837948	2.5452454643473
(592974)	16.8	264.36274	79.76613	21.17240	8.08169	0.0682407	2.5897565643474
(592975)	17.3	83.89969	264.34666	1.25717	1.80797	0.0175505	2.6810211643474
(592976)	17.6	97.06536	211.26185	34.96614	5.28994	0.0663154	2.7157674643475
(592977)	14.0	219.52563	138.99541	24.24830	21.82031	0.0690691	5.1931238643475
(592978)	17.6	114.76017	197.74715	24.70090	13.81247	0.0953705	2.7380570643475
(592979)	13.9	352.10117	215.21431	182.39592	18.48689	0.0380983	5.1653998643476
(592980)	17.4	24.58156	160.90060	182.06614	10.96398	0.0796837	2.6393020643476
(592981)	17.5	74.31058	230.98376	27.56415	4.39169	0.0560499	2.7574223643476
(592982)	17.9	241.63893	293.10479	165.70056	2.30810	0.1088475	2.6759625643477
(592983)	17.1	321.50565	228.21483	181.32177	14.24408	0.1620634	2.5788621643477
(592984)	16.9	347.95321	330.11369	52.11182	8.18626	0.1225128	2.6144213643477
(592985)	17.6	326.91469	225.49054	152.00805	5.35756	0.0454553	2.7116585643478
(592986)	14.7	297.08974	292.36815	150.94237	7.67037	0.1326260	5.1881130643478
(592987)	17.6	146.52629	69.79115	113.73583	5.21499	0.0362192	2.7607243643478
(592988)	17.5	214.45161	347.89072	110.75091	5.84429	0.0789246	2.8029503643479
(592989)	14.0	249.91000	89.70960	43.70907	12.57246	0.1256930	5.1729807643479
(592990)	18.0	257.70370	294.18838	181.09216	10.00116	0.1219855	2.5650149643479
(592991)	17.4	294.46698	243.97251	183.82843	13.02548	0.1748863	2.5949447643480
(592992)	17.5	112.85665	52.52760	177.01131	5.12097	0.0704952	2.7305153643480
(592993)	17.7	257.82187	50.64896	55.98019	3.90299	0.1461512	2.5758661643480
(592994)	17.5	179.50350	111.90898	17.85757	4.19927	0.0471472	2.8111390643481
(592995)	14.6	257.43124	82.52660	37.31465	7.62436	0.0586391	5.3120041643481
(592996)	18.5	287.27052	24.36594	14.73062	22.22529	0.0739179	1.9100380643481
(592997)	14.1	314.08574	19.70131	49.23060	14.97311	0.1258126	5.2064703643482
(592998)	17.4	49.39780	119.15061	186.39273	9.64218	0.2317509	2.7776750643482
(592999)	17.0	330.80010	320.24082	43.42620	7.04990	0.0752362	2.7684441643482
(593000)	16.4	316.12546	12.61653	48.08061	22.79855	0.0444303	2.6068081643483
(593001)	17.8	249.67088	273.00279	175.35306	15.26416	0.0481982	2.6710314643483
(593002)	17.5	85.98723	258.37628	12.74658	13.79637	0.0907122	2.6537965643483
(593003)	17.9	239.36586	57.04202	55.93534	3.01654	0.1066914	2.6002272643484
(593004)	17.5	310.72436	339.66986	91.63177	4.10072	0.1381238	2.4889768643484
(593005)	16.9	59.98353	32.26851	267.30511	16.71384	0.1988247	2.6258334643484
(593006)	17.1	172.77093	232.50707	298.32230	12.04004	0.1304711	2.6224981643485
(593007)	17.1	81.27630	44.06868	252.81917	11.06272	0.1093740	2.5431944643485
(593008)	17.4	142.92657	287.19800	256.43195	13.33750	0.0609818	2.6940593643485
(593009)	17.3	13.96122	15.20914	308.60339	11.81742	0.0873918	2.6699966643485
(593010)	17.6	14.69603	134.60692	212.09989	14.81526	0.0559559	2.5660716643486
(593011)	17.5	102.17423	327.08517	237.70157	3.92639	0.0563023	2.7754966643486
(593012)	17.8	135.24409	321.56949	217.97737	6.19692	0.1976620	2.7506242643486
(593013)	17.6	134.62764	255.53880	290.31922	3.42296	0.0507855	2.7287229643487
(593014)	17.7	55.23508	309.93697	324.93546	4.27317	0.0404147	2.7058280643487
(593015)	17.8	302.93177	224.37810	184.22945	10.33454	0.0943497	2.5921409643487
(593016)	17.3	315.80080	200.96627	221.01382	9.29574	0.2398730	2.4637723643487
(593017)	17.6	81.49693	44.71171	210.75362	4.16544	0.0462384	2.6964616643488
(593018)	17.8	100.41523	255.68200	342.36537	5.54937	0.0822806	2.6955190643488
(593019)	17.4	288.73788	299.48148	145.22197	15.31620	0.0852267	2.5832807643489
(593020)	14.4	306.37702	7.07588	78.84715	13.16182	0.0870421	5.0743681643489
(593021)	18.4	181.35850	143.24390	32.48234	23.47703	0.0477265	1.8696773643489
(593022)	16.5	53.08258	220.56669	61.57620	9.75226	0.1186324	2.5967646643490
(593023)	16.5	59.86726	280.21970	2.34160	19.33664	0.2810983	2.7705533643490
(593024)	18.1	238.11995	302.81840	147.94273	5.71539	0.1515806	2.6451799643491
(593025)	17.6	220.41526	303.80541	166.96855	15.13862	0.0471222	2.6785731643491
(593026)	17.3	63.56951	184.34415	87.94988	4.02310	0.0599546	2.6998744643491
(593027)	17.4	38.04856	174.37599	139.29807	4.90982	0.0582904	2.6502753643492
(593028)	17.3	19.76351	315.58253	16.79001	10.48724	0.1881670	2.6837696643492
(593029)	17.5	52.16457	194.39875	99.64380	3.01594	0.0555587	2.6820549643492
(593030)	17.4	36.29135	143.25817	171.67078	14.18420	0.0202330	2.6512581643493
(593031)	17.3	327.72533	244.28435	110.60639	7.62621	0.0854501	2.7485051643493
(593032)	17.8	268.72526	283.82605	166.33456	14.60611	0.0740161	2.5945653643493
(593033)	17.3	290.22603	323.04230	83.75977	5.85139	0.0323067	2.6932951643494
(593034)	14.6	295.85651	31.51854	41.73828	9.32159	0.0814942	5.2335340643494
(593035)	17.6	156.70781	120.29341	58.27326	3.16504	0.1078186	2.6586042643494
(593036)	17.4	88.26480	211.65106	46.74568	7.04021	0.0618100	2.6392719643495
(593037)	17.3	59.23926	224.37695	92.18255	4.78524	0.2344084	2.5785909643495
(593038)	17.8	188.94637	76.20276	51.56838	5.75080	0.0709975	2.7040585643495
(593039)	17.3	105.99250	216.77163	14.93465	12.53136	0.1227413	2.6873778643496
(593040)	18.0	259.64427	322.03299	113.03804	3.26348	0.0697637	2.6340159643496
(593041)	17.9	127.13749	97.50971	102.78243	6.44947	0.0968694	2.7040569643496
(593042)	17.4	36.24608	191.39912	114.46402	7.90486	0.0262092	2.6518774643497
(593043)	17.8	23.21356	264.08202	50.33961	6.00864	0.0774889	2.6881270643497
(593044)	17.7	76.77678	127.18995	125.02782	5.52891	0.0767727	2.7195784643497
(593045)	17.6	28.57129	263.95224	22.73832	12.64246	0.0871390	2.7716322643498
(593046)	17.5	352.86773	280.08124	67.04556	6.36270	0.0759804	2.6572350643498
(593047)	17.4	157.96120	169.98288	16.47866	13.75495	0.1011944	2.6449115643498
(593048)	17.1	19.96957	214.61863	126.92651	14.26639	0.0359071	2.5885501643498
(593049)	17.4	168.61466	81.25176	92.21081	11.22076	0.0679324	2.6428214643499
(593050)	17.4	30.51845	246.83953	51.29399	13.36450	0.0613773	2.6960150643499
(593051)	17.7	194.99209	292.98832	201.08034	4.93239	0.1122131	2.7192155643499
(593052)	18.7	63.27108	82.77547	190.00376	21.83471	0.0621857	1.9381635643500
(593053)	16.8	21.91822	227.27333	129.58561	12.23759	0.0945596	2.6897724643500
(593054)	16.8	13.31637	217.61944	119.38633	14.44486	0.1983427	2.8405527643500
(593055)	19.0	226.76937	299.52985	176.97825	22.97310	0.0734268	1.8660328643501
(593056)	17.4	49.84721	273.72996	24.49430	11.50425	0.0713468	2.6911626643501
(593057)	13.6	290.12175	326.11142	125.35591	15.25481	0.0311503	5.3251438643501

(593058)	16.7	35.94647	273.65299	27.05569	14.05008	0.0709241	2.7108206643502
(593059)	17.6	46.54172	145.46941	122.66903	5.34814	0.0084547	2.7957592643502
(593060)	16.9	342.07892	295.11903	91.96904	8.68075	0.1568033	2.5826991643502
(593061)	17.8	196.48119	333.90660	149.43525	9.12839	0.1375628	2.7357609643503
(593062)	17.2	284.60593	258.10201	139.28847	6.97012	0.0700380	2.7624855643503
(593063)	17.5	349.31700	212.93104	134.14933	11.82813	0.0341492	2.7266329643503
(593064)	17.6	69.74910	121.36340	156.46115	17.91681	0.1703164	2.7547788643504
(593065)	17.2	239.43092	320.19634	150.55176	15.69731	0.1026287	2.6399911643504
(593066)	17.2	16.26654	169.26673	109.62432	11.04526	0.0994187	2.9381367643504
(593067)	16.8	355.81439	207.20000	146.19601	16.19360	0.2166658	2.7368869643504
(593068)	17.6	238.40074	4.97779	104.15517	8.99632	0.0465366	2.6727908643505
(593069)	17.3	100.41352	233.99173	9.35565	9.48129	0.2041119	2.7412748643505
(593070)	17.8	7.82200	86.77222	249.38953	19.71038	0.0660465	1.8698865643505
(593071)	18.1	336.97446	274.50945	87.49171	24.54897	0.0967225	1.8671548643506
(593072)	16.9	118.03601	331.28273	271.13703	13.93973	0.0879702	2.6746613643506
(593073)	17.1	143.31925	333.49008	273.09938	12.48227	0.1176352	2.5804373643506
(593074)	18.1	155.68895	142.09472	33.04708	22.08582	0.0150583	1.8995729643507
(593075)	17.4	89.22611	119.62008	126.28494	13.64674	0.1354331	2.6194362643507
(593076)	17.3	239.66538	5.81652	113.02066	15.68376	0.0309852	2.6355471643508
(593077)	17.7	276.62869	43.17767	37.94074	9.50048	0.0453083	2.6659473643508
(593078)	17.5	350.80257	320.41153	40.00882	2.27221	0.0947199	2.7328256643508
(593079)	17.4	162.86872	316.29502	218.51334	4.25242	0.0164288	2.7525374643509
(593080)	14.0	8.69458	176.08237	223.09666	2.88677	0.0782732	5.0864719643509
(593081)	17.6	293.03940	26.35776	59.15320	10.10679	0.0989609	2.5989627643510
(593082)	17.5	192.25560	82.68946	48.64272	3.99785	0.1409887	2.7462084643510
(593083)	17.0	73.89164	70.58885	226.18482	13.93839	0.1915934	2.5507326643510
(593084)	17.3	74.79072	321.56676	280.93480	14.12747	0.1991374	2.7626029643511
(593085)	18.8	229.68352	148.27507	323.21465	20.27218	0.0484426	1.8699062643511
(593086)	17.8	217.52808	238.81847	231.24740	15.36876	0.0594884	2.6812290643511
(593087)	14.5	135.86844	317.09683	290.31213	19.06412	0.0485779	5.1545492643512
(593088)	14.2	307.54275	105.43197	323.35100	23.43512	0.0491569	5.1356504643512
(593089)	17.2	243.73080	287.67711	138.08293	2.79632	0.0556891	2.8522493643512
(593090)	17.2	27.06835	185.88171	125.01384	5.30778	0.0544913	2.7966777643513
(593091)	17.6	76.22890	40.58233	199.87957	18.81191	0.2422345	2.7908227643513
(593092)	16.9	91.56664	284.45629	327.29682	11.35368	0.1556544	2.6810170643513
(593093)	17.4	337.31639	172.19532	201.42835	7.58748	0.0570520	2.5883899643514
(593094)	14.3	36.38745	5.76076	335.58663	16.37564	0.0347934	5.2092134643514
(593095)	17.6	346.15697	86.39885	272.34327	4.22968	0.0778097	2.6792727643515
(593096)	17.8	35.53925	50.74801	237.96237	6.23733	0.0866715	2.7944226643515
(593097)	14.4	301.10033	316.98095	125.85019	15.26992	0.1095010	5.1857719643515
(593098)	17.5	86.38308	287.23268	318.92424	1.69313	0.1307761	2.7883887643515
(593099)	17.5	342.66884	311.23818	80.42314	4.89710	0.0798353	2.5922004643516
(593100)	17.7	181.55901	297.44596	197.12535	5.15117	0.0565817	2.7604108643516
(593101)	17.4	351.80796	272.88220	102.40559	12.73245	0.0537097	2.7327645643516
(593102)	17.3	82.24907	105.46626	147.86253	15.45078	0.1216698	2.8686216643517
(593103)	17.2	345.54037	307.62340	63.52145	12.88098	0.1774295	2.6359729643517
(593104)	18.6	281.10720	192.32403	235.79001	20.56036	0.0492301	1.8647555643517
(593105)	17.7	189.63312	348.58255	131.35845	10.62809	0.1708253	2.7864989643517
(593106)	14.6	283.33006	355.88868	102.61298	13.32845	0.0236502	5.2444132643518
(593107)	17.7	37.77874	259.44382	25.19669	6.08528	0.0320372	2.7884162643518
(593108)	17.6	152.48501	133.01139	57.48188	4.36158	0.0238653	2.6988992643518
(593109)	14.7	63.63373	219.80596	109.54976	10.16743	0.0617863	5.2492314643518
(593110)	17.9	340.37484	305.55914	43.09446	6.68855	0.0735291	2.7662326643519
(593111)	17.6	105.79215	230.52203	334.92440	4.14095	0.0961264	2.8118697643519
(593112)	17.3	29.02858	129.86388	174.91881	10.99221	0.2480520	2.9682130643519
(593113)	14.0	351.46045	332.73839	63.91771	21.79191	0.0569805	5.3111995643519
(593114)	15.0	264.54845	341.08728	131.61066	8.58097	0.0134146	5.1266631643520
(593115)	17.9	185.76202	245.13668	251.59806	3.47798	0.0425593	2.7264057643520
(593116)	14.6	273.19163	323.04746	148.51489	9.27924	0.0833511	5.2253793643520
(593117)	17.6	293.26862	280.11139	135.30547	14.80828	0.0846723	2.7000027643520
(593118)	17.7	51.72567	88.22407	132.49488	16.72779	0.2554132	3.0849275643521
(593119)	17.6	336.45015	266.27336	90.59833	23.24090	0.1066515	1.9191591643521
(593120)	17.7	124.63502	79.47693	117.35519	10.43924	0.1668328	2.7439578643521
(593121)	18.4	222.82532	286.48789	186.19961	21.76381	0.1252750	1.8708689643522
(593122)	17.3	160.93645	204.69509	8.15445	13.55199	0.1204085	2.6096814643522
(593123)	16.9	30.89112	226.84781	58.43424	15.20893	0.1443587	2.8524278643523
(593124)	17.1	189.98938	82.94402	84.44514	13.55442	0.1151465	2.6408391643523
(593125)	17.5	141.57505	109.62610	67.13298	13.66277	0.1410087	2.7729502643523
(593126)	16.8	13.86476	222.90552	114.32424	14.31589	0.1812122	2.6559162643523
(593127)	17.3	120.20822	128.25366	83.52448	14.02014	0.0326389	2.6933925643524
(593128)	17.6	48.32323	221.89653	78.30463	12.67964	0.0705772	2.6741283643524
(593129)	14.5	164.66686	200.95578	11.94581	22.06981	0.0293129	5.2457065643525
(593130)	17.7	266.25937	290.79417	171.14462	3.26274	0.1097234	2.5681486643525
(593131)	17.6	351.61610	200.95666	178.96824	8.61165	0.0937723	2.5894057643525
(593132)	14.1	23.10562	302.02889	83.56564	22.14371	0.0456204	5.1495630643525
(593133)	16.4	10.39594	202.93699	142.61831	13.75977	0.0434532	2.7073322643526
(593134)	18.9	107.33529	68.73596	184.93022	19.34933	0.0575519	1.8832987643526
(593135)	17.3	269.07919	305.84285	138.44943	13.25198	0.1234641	2.6450282643527
(593136)	17.4	67.91797	196.81174	67.02889	5.62112	0.0782806	2.8028770643527
(593137)	17.6	306.20018	278.80063	136.09318	4.26670	0.0753798	2.6552781643527
(593138)	17.0	317.98199	249.85827	173.58236	6.49811	0.1105501	2.5731872643528
(593139)	17.6	148.19982	129.49699	50.04884	9.02295	0.1439589	2.7393456643528
(593140)	14.6	227.36171	351.12211	167.37546	21.21614	0.0320130	5.1427165643528
(593141)	17.3	219.80088	62.64491	58.80158	16.75208	0.1420153	2.6691240643529
(593142)	17.8	241.28704	58.10927	56.08014	13.05329	0.1671906	2.6132256643529
(593143)	17.0	12.48457	251.67279	106.19155	6.76303	0.2124835	2.6406385643529
(593144)	17.9	190.39492	59.13816	89.44902	5.99253	0.0460810	2.7091842643529
(593145)	17.3	353.33221	203.39654	154.32123	7.48541	0.1207849	2.7046328643530
(593146)	17.5	305.52634	248.39256	145.96760	7.18510	0.0270448	2.7264548643530
(593147)	17.7	67.96927	201.17588	57.34520	10.18865	0.1054402	2.8146023643530
(593148)	17.3	131.56474	124.71554	150.04272	13.89255	0.2512379	2.5736863643531
(593149)	17.6	73.01323	86.70815	153.66060	11.79325	0.0721909	2.8972490643531
(593150)	18.7	266.63687	247.28566	187.13358	22.32996	0.1124161	1.8798903643531
(593151)	17.0	93.42037	330.52810	300.01312	11.46390	0.1069216	2.6249122643532
(593152)	17.6	171.68145	296.04548	218.05853	14.59116	0.0662447	2.7097339643532
(593153)	17.4	176.69734	335.92682	173.12964	18.65812	0.1520120	2.6712094643532
(593154)	17.1	139.04685	206.64387	41.28878	10.38812	0.0756409	2.5367158643533
(593155)	16.9	28.26427	167.11904	153.69642	12.55124	0.1838087	2.6894163643533
(593156)	17.1	22.76872	182.57551	154.88808	10.84778	0.1146272	2.6165263643533
(593157)	17.3	123.97486	85.84058	114.81419	6.16210	0.0622019	2.7333470643534
(593158)	17.7	24.77245	245.56558	87.78831	28.09721	0.0711805	1.8967863643534
(593159)	17.7	234.97337	93.93648	23.28066	8.55167	0.0911234	2.6402782643535
(593160)	17.6	91.40370	221.66407	15.03206	3.67253	0.0425152	2.7784907643535
(593161)	17.8	260.14222	310.79341	151.21110	3.43613	0.0857619	2.6171742643535

(593162)	17.6	60.12204	123.96280	156.70111	4.03418	0.0774663	2.7577907643535
(593163)	17.4	231.11203	44.91784	27.29814	6.00307	0.0497091	2.8520948643536
(593164)	17.2	293.08886	274.24382	164.88421	4.28719	0.1604352	2.5683982643536
(593165)	17.1	47.27433	153.91725	172.62159	4.75981	0.0566997	2.6377393643536
(593166)	17.8	164.54338	35.43350	130.83901	4.43894	0.0308923	2.7672518643537
(593167)	17.6	136.40945	162.13167	43.88132	6.45980	0.0080515	2.7374993643537
(593168)	17.9	248.53398	322.43919	167.80426	8.08818	0.1956146	2.5385806643538
(593169)	17.6	22.91872	237.61828	76.37236	5.92719	0.0423253	2.7736973643538
(593170)	17.8	216.08494	75.57368	71.87203	5.26984	0.1539723	2.5997447643538
(593171)	17.3	31.19922	232.38740	75.95193	6.18589	0.0514648	2.7784555643538
(593172)	17.2	20.28626	195.91223	98.59835	3.31795	0.0400699	2.8826557643539
(593173)	17.6	156.28924	34.32126	153.13530	5.77154	0.0860314	2.7299816643539
(593174)	17.3	239.46255	291.48535	184.08077	12.43641	0.0620311	2.6878817643539
(593175)	16.6	290.44978	286.82016	184.94395	15.03983	0.0981700	2.5317303643540
(593176)	13.6	22.19067	306.57463	64.81556	19.76255	0.0574289	5.2763088643541
(593177)	16.9	336.41124	328.00908	51.54046	16.38901	0.1799470	2.6488163643541
(593178)	17.5	342.83893	249.89507	155.87278	13.54986	0.0984617	2.5446143643541
(593179)	17.5	65.70914	153.69193	120.05276	9.23546	0.1750892	2.7937227643542
(593180)	17.6	44.54242	141.57722	164.31220	11.40712	0.0691192	2.7246660643542
(593181)	17.8	298.00212	271.10888	151.02217	8.88153	0.0683495	2.6474377643542
(593182)	17.0	348.16749	245.85023	111.97794	7.38966	0.0491908	2.7270377643542
(593183)	17.4	292.87303	288.80465	127.02581	6.08796	0.0532729	2.6648426643543
(593184)	16.9	94.56377	114.96789	149.42329	12.61647	0.1994439	2.6527601643543
(593185)	18.6	244.74144	81.08237	34.72030	21.64892	0.0668086	1.8865093643544
(593186)	17.0	133.99820	187.15161	32.44200	17.03536	0.1215644	2.7668587643544
(593187)	16.6	86.12437	353.00399	282.30595	12.70562	0.1339071	2.6684277643544
(593188)	17.6	314.17852	46.15356	31.97688	17.12582	0.1181596	2.5464980643544
(593189)	17.8	245.26540	230.14300	229.14601	4.69879	0.0247455	2.7331218643545
(593190)	17.5	219.45961	209.43525	250.10487	0.99425	0.0266308	2.8384320643545
(593191)	17.9	10.55291	126.50267	180.55402	1.93300	0.0500578	2.8739734643545
(593192)	17.5	283.35452	218.44545	203.08671	6.28401	0.0273159	2.7393572643545
(593193)	17.5	89.17482	128.72046	99.43920	3.26777	0.0331523	2.8600023643546
(593194)	17.1	1.58227	149.69571	208.94513	8.87104	0.1444650	2.7328405643546
(593195)	17.6	100.95386	300.08312	41.07476	13.39414	0.3115311	2.5344601643546
(593196)	17.6	187.44190	249.75934	242.41576	3.15773	0.1430663	2.7867092643547
(593197)	17.3	326.89270	193.06133	236.36731	4.08836	0.1484104	2.5417474643547
(593198)	17.4	32.03675	214.61915	88.83716	3.63514	0.0916461	2.8348601643547
(593199)	16.5	263.53391	252.57165	205.91026	24.15993	0.2232811	2.6133263643547
(593200)	17.4	53.47874	231.76535	64.80005	7.10538	0.0303606	2.7550745643548
(593201)	17.3	75.56345	228.83739	45.75925	7.51463	0.0693655	2.7669421643548
(593202)	17.5	38.47939	79.14445	200.70364	10.84718	0.0706187	2.9015210643549
(593203)	17.4	22.70057	97.67175	237.14176	3.95892	0.1620709	2.7653243643549
(593204)	17.1	317.26209	321.58903	97.14789	8.00384	0.1328039	2.5939625643549
(593205)	17.3	174.39918	359.77661	136.97151	9.51642	0.1063470	2.8232768643550
(593206)	17.3	314.15579	306.78934	116.21889	10.57985	0.0514464	2.6092261643550
(593207)	17.2	223.95557	11.04031	137.21899	12.35171	0.1011032	2.6197662643550
(593208)	17.2	267.78572	356.06868	102.93011	15.21979	0.0528086	2.6507369643551
(593209)	17.1	210.74593	348.28579	132.19263	10.65429	0.1415262	2.7459135643551
(593210)	18.4	296.11339	199.46964	232.42105	18.77527	0.0866774	1.8663987643551
(593211)	16.9	77.70681	264.26462	33.02792	5.42033	0.1646485	2.6960994643552
(593212)	17.7	314.72878	36.63836	30.16045	3.30774	0.2271031	2.5584927643552
(593213)	17.6	291.14599	198.32243	202.98738	4.05119	0.0739622	2.7980315643553
(593214)	17.7	37.47988	77.93387	210.33395	5.47704	0.0242418	2.8384677643553
(593215)	17.6	228.73537	89.19972	19.68942	4.73636	0.0145713	2.7764003643553
(593216)	17.5	248.86681	6.17057	94.91428	5.86669	0.0793377	2.7074354643553
(593217)	17.6	227.35148	339.69215	117.29126	5.23270	0.0634324	2.8170152643553
(593218)	17.7	254.68610	36.67779	57.49974	6.04425	0.1855454	2.6803643643554
(593219)	17.5	13.38165	174.10604	164.28947	3.43836	0.0822353	2.7699285643554
(593220)	17.4	13.24125	249.97984	91.01690	1.03214	0.0804589	2.7631228643554
(593221)	17.2	1.92704	272.84764	60.57292	5.12700	0.2154169	2.9088350643555
(593222)	17.1	321.81242	278.75607	162.23609	5.07927	0.0841087	2.5461474643555
(593223)	17.8	192.65817	125.55136	30.60669	2.30039	0.0756996	2.7063491643556
(593224)	17.4	20.63905	64.69032	239.14622	5.27035	0.2291882	2.9385190643556
(593225)	17.2	357.16991	121.79351	234.39719	5.35887	0.0279727	2.7366191643556
(593226)	17.3	148.14428	113.18564	95.65115	3.52107	0.0164777	2.7572607643556
(593227)	17.8	287.58192	233.26318	220.18413	1.25122	0.0946646	2.5863413643557
(593228)	17.6	20.89835	150.45611	170.79510	5.93303	0.0658748	2.7914905643557
(593229)	13.8	283.10492	8.96658	97.07886	37.13143	0.0734393	5.1927298643557
(593230)	16.4	235.87535	134.23552	34.82601	13.59996	0.1293659	2.5447108643558
(593231)	17.0	143.83590	190.77973	5.48848	26.46266	0.1785044	2.7393745643558
(593232)	19.1	224.71780	256.94614	227.66754	20.34786	0.0353386	1.8973787643559
(593233)	19.0	49.65267	159.42929	114.32286	24.89568	0.0453131	1.9542394643559
(593234)	17.6	216.46213	18.60488	86.01827	3.19964	0.0113545	2.8636801643559
(593235)	17.6	251.26138	356.34825	136.11210	11.84199	0.0738717	2.6794641643559
(593236)	17.3	266.29196	198.72285	245.81495	12.52054	0.2132424	2.6653676643560
(593237)	17.4	298.69229	170.79761	262.06655	12.02180	0.1022737	2.6422281643560
(593238)	17.4	58.59588	308.26599	18.50913	9.88919	0.0947037	2.6791320643560
(593239)	16.9	25.48151	229.80520	125.55113	6.43701	0.0428833	2.7003690643560
(593240)	17.7	60.14830	265.05820	6.67180	1.93381	0.1529841	2.8761548643561
(593241)	17.5	40.25266	153.68711	145.47367	3.04842	0.1416409	2.8588050643561
(593242)	17.7	29.46619	133.93677	169.94214	17.56307	0.1345344	2.8567333643561
(593243)	14.4	314.45596	124.58129	317.67337	7.28603	0.1000231	5.1937496643562
(593244)	17.9	199.16021	29.10181	99.54209	6.44177	0.0307218	2.7590695643562
(593245)	14.9	57.66489	330.07888	17.56030	2.88687	0.0266536	5.2189077643562
(593246)	17.8	105.05980	147.77755	87.58310	5.48210	0.0191625	2.8135423643563
(593247)	17.7	21.59873	206.53755	89.36764	3.21544	0.0377994	2.8685084643563
(593248)	17.2	21.56537	92.79830	216.23396	15.84093	0.2883523	3.0446203643563
(593249)	18.4	286.12502	32.29012	58.22658	20.89235	0.1178223	1.8710796643563
(593250)	17.4	229.62479	227.25974	275.01545	6.34215	0.1540284	2.5386412643564
(593251)	17.4	138.44962	316.95892	234.37725	13.97719	0.0898352	2.7439228643564
(593252)	16.9	133.87055	44.24610	196.91392	12.95635	0.1119837	2.7233200643564
(593253)	17.2	228.77062	328.78302	155.45214	9.71339	0.1004446	2.7806216643565
(593254)	17.1	22.69456	75.98794	211.14543	19.60273	0.2571189	3.0684846643565
(593255)	17.1	61.96123	65.69081	229.79320	3.52263	0.1217668	2.7824899643566
(593256)	17.4	189.88948	112.60438	49.87448	14.15387	0.2063369	2.6806934643566
(593257)	17.4	223.06197	302.68520	216.48759	12.28990	0.1983437	2.6205643643566
(593258)	17.2	28.26745	228.87369	53.04315	10.72920	0.0687182	3.0083695643567
(593259)	16.9	258.54465	193.66459	248.20940	14.26596	0.1105568	2.8488348643567
(593260)	17.5	62.41950	326.11654	0.19456	0.90352	0.0641145	2.7031328643567
(593261)	17.4	197.29300	99.27196	63.22048	1.43924	0.0166962	2.7737169643568
(593262)	17.1	27.80207	91.48498	223.56593	1.06014	0.0556668	2.8801749643568
(593263)	17.0	134.57590	169.57352	72.29631	8.31517	0.0346903	2.7278799643568
(593264)	17.3	35.46913	64.71244	228.34801	5.09822	0.1902399	2.9879638643569
(593265)	17.3	150.54856	161.92883	69.41767	15.67251	0.0313242	2.6938601643569

(593266)	17.0	305.56239	229.24664	155.42591	9.67150	0.1930128	2.9021782643570
(593267)	17.1	25.52710	161.50063	112.77715	9.95428	0.1514403	3.0371936643570
(593268)	17.0	12.52290	252.58954	105.97731	12.02958	0.2349852	2.7953423643570
(593269)	16.9	8.62106	136.83867	208.94796	14.60488	0.1605203	2.8497472643570
(593270)	17.6	276.78823	237.82558	183.20387	12.51012	0.0459359	2.8400241643571
(593271)	17.7	52.65906	131.76939	141.54475	11.18085	0.1227073	2.9088131643571
(593272)	17.2	198.12591	334.21681	179.46061	14.62306	0.1259123	2.7205254643571
(593273)	17.5	38.34827	164.74750	140.65989	7.08776	0.0160841	2.7915981643572
(593274)	17.0	330.40206	290.11898	94.06843	11.05512	0.1361476	2.7942484643572
(593275)	17.7	301.90025	271.01292	171.51106	11.72181	0.1317988	2.6275326643572
(593276)	17.4	8.39011	238.84605	134.46684	6.77408	0.0794600	2.7127853643572
(593277)	17.1	222.57735	34.94490	75.33454	16.17609	0.1020376	2.8441021643573
(593278)	17.4	32.00074	218.69600	128.11957	7.18547	0.0361479	2.7268162643573
(593279)	17.5	282.31673	239.34670	217.79725	9.22195	0.1259833	2.6914779643573
(593280)	18.1	61.84101	245.63735	94.66408	8.01310	0.0848278	2.6706847643573
(593281)	16.7	64.17442	195.26745	107.18792	11.27229	0.1048590	2.8052306643574
(593282)	16.9	85.60763	293.43027	4.27595	14.57828	0.1150764	2.6733117643574
(593283)	17.2	67.52352	235.23751	73.98802	12.29941	0.0771287	2.6601748643574
(593284)	17.3	98.13135	322.55504	324.33452	3.77020	0.1085241	2.6811448643574
(593285)	17.5	283.84505	247.27875	235.01413	6.51240	0.1340270	2.5387046643575
(593286)	17.7	278.53599	351.51096	77.07491	6.12688	0.0183878	2.8047518643575
(593287)	16.9	326.03673	177.14574	222.64659	5.30438	0.0244248	2.7470462643575
(593288)	16.8	84.98118	147.75497	82.07875	17.59421	0.0714680	3.0960593643576
(593289)	17.5	45.65921	147.56211	147.60329	4.21945	0.0720209	2.8129981643576
(593290)	17.1	58.33367	296.15580	359.42726	10.19338	0.1326350	2.8304480643576
(593291)	18.1	6.15522	64.51718	272.46026	17.64347	0.0737850	1.9388757643576
(593292)	15.9	273.74529	217.68274	163.32323	28.00195	0.1836989	3.1371453643577
(593293)	14.5	254.40900	213.95447	276.82030	5.91982	0.0019711	5.1721104643577
(593294)	17.3	276.09773	335.45867	102.85816	1.78765	0.0417065	2.7789683643578
(593295)	16.8	84.49745	153.86989	115.71028	11.18689	0.2282873	3.0671359643578
(593296)	17.2	74.46449	56.45575	252.51970	16.59673	0.0519360	2.6882484643578
(593297)	17.3	51.03007	222.69539	46.52986	2.78594	0.0237826	2.9382322643579
(593298)	17.4	95.54792	335.46356	233.72114	8.85599	0.0497371	3.0076312643579
(593299)	17.2	24.26952	144.52852	128.55671	12.58164	0.0564728	3.0373613643579
(593300)	16.5	281.95107	301.54296	150.35983	22.31054	0.0411552	2.6717727643579
(593301)	13.9	254.82824	44.15132	84.17211	16.18967	0.0840786	5.2453929643580
(593302)	16.6	274.63981	211.06632	274.04129	14.00231	0.0640122	2.5667243643580
(593303)	16.4	78.66733	354.66623	282.04981	13.17274	0.1370913	2.7815587643580
(593304)	16.8	34.08764	355.87478	299.17676	8.58184	0.3792247	3.0042333643581
(593305)	16.5	58.82013	319.51400	319.62286	5.74113	0.0699731	2.8453334643581
(593306)	18.0	193.83836	35.16374	104.49008	24.70349	0.0770169	1.9544006643582
(593307)	18.6	283.10367	334.77643	101.90036	24.43861	0.0850532	1.9131374643583
(593308)	16.4	71.21937	284.90423	296.84734	14.49490	0.1960767	3.1391451643583
(593309)	16.1	91.46797	176.78500	102.25333	12.90199	0.0541110	2.7950143643583
(593310)	17.4	331.15127	228.47313	153.98351	23.59370	0.0257681	1.9994885643584
(593311)	18.5	37.51679	136.97018	189.36602	21.97147	0.0816746	1.9144644643584
(593312)	16.4	182.36715	307.44893	268.38417	4.60176	0.0177441	2.7743958643585
(593313)	16.8	170.63851	319.19503	227.06834	11.87204	0.0731048	2.7508611643585
(593314)	17.2	214.46217	285.27539	232.81762	12.49218	0.1919039	2.6482143643586
(593315)	17.5	134.37657	232.62822	23.34834	9.25218	0.0847507	2.6182212643586
(593316)	17.3	50.89597	132.29168	127.53390	8.63041	0.1748463	3.0321957643587
(593317)	17.5	323.61097	345.56004	97.93949	12.49081	0.1589770	2.6180288643587
(593318)	16.1	300.60246	145.03109	257.41720	13.96075	0.1270220	3.1326045643587
(593319)	18.2	193.90667	218.95041	296.80328	17.68990	0.0740598	1.9532004643588
(593320)	16.9	103.79497	59.80315	143.57889	17.66341	0.1638044	3.1172107643588
(593321)	17.4	207.17069	233.07340	252.86095	11.14264	0.1482914	2.7513598643588
(593322)	17.5	347.40345	32.69259	330.28597	3.61857	0.0847118	2.7901785643588
(593323)	17.3	317.92920	336.28176	61.82295	6.84184	0.0723009	2.7581700643589
(593324)	15.9	7.93564	245.86155	108.31701	11.82908	0.0917895	2.9911990643589
(593325)	16.7	26.66172	242.64949	108.96999	10.85674	0.1444815	2.9464463643589
(593326)	16.8	1.55719	14.85118	296.38753	9.48309	0.0202019	3.1785820643590
(593327)	16.9	52.62035	168.90260	115.15085	18.66864	0.1647971	3.0393466643590
(593328)	17.3	355.17915	144.99242	225.85018	7.11967	0.1726263	3.0108732643590
(593329)	17.1	69.50550	109.88965	119.56295	14.17872	0.1374427	3.1958933643590
(593330)	16.9	71.72431	122.65411	139.10944	11.23754	0.0678291	3.0705659643591
(593331)	16.9	338.71150	244.18221	167.42309	8.37711	0.2911412	2.9927407643591
(593332)	17.2	353.43445	222.03459	126.27595	9.47301	0.1258898	3.1216609643591
(593333)	17.4	15.78424	114.38045	203.51259	5.52898	0.1598372	3.1439185643591
(593334)	16.2	312.64788	188.01413	242.26485	8.04854	0.2260238	3.0005267643592
(593335)	16.9	151.53434	40.30365	151.93419	8.85232	0.1068436	3.0069375643592
(593336)	17.1	184.88816	17.45640	159.53221	10.57570	0.0227534	2.9267307643593
(593337)	17.2	294.28722	269.35795	147.73175	11.92402	0.0410493	3.0406664643593
(593338)	16.9	21.02736	170.34693	143.18536	10.72062	0.1032453	3.1201509643593
(593339)	16.1	320.61122	163.53043	250.85647	14.90444	0.0926967	3.1741103643593
(593340)	16.4	71.14742	28.40017	267.52817	14.72348	0.0642459	3.1376100643594
(593341)	17.2	93.61470	36.83363	181.89414	3.74673	0.1823912	3.0842285643594
(593342)	16.6	5.62805	199.82039	150.28560	10.32158	0.1108228	3.0160171643594
(593343)	17.0	15.30273	113.79928	211.06938	15.44411	0.2485785	3.1479495643595
(593344)	17.1	18.40544	152.31965	183.32370	17.10464	0.3101627	3.1021522643595
(593345)	16.4	26.68524	15.15775	304.17096	8.64954	0.0446287	3.0670110643595
(593346)	16.8	61.08840	131.75764	111.34348	17.71466	0.1953597	3.1870528643596
(593347)	16.4	23.65610	66.11590	256.71233	8.54280	0.1170198	3.1128680643596
(593348)	16.2	18.18881	47.21395	284.28700	16.30498	0.1957627	3.1187136643596
(593349)	15.9	17.28803	215.17802	115.15449	11.66359	0.0916092	3.1029288643597
(593350)	16.5	287.89994	243.76425	147.08981	12.53229	0.0458394	3.2342050643597
(593351)	17.3	30.05092	126.02943	172.23767	4.29285	0.1570496	3.1453097643598
(593352)	17.2	119.18095	62.44563	177.43374	10.18750	0.0529818	2.9709848643598
(593353)	16.9	12.06369	11.12594	358.32984	10.28359	0.1091121	2.9901175643598
(593354)	17.0	50.40410	38.05921	231.81129	17.73525	0.0912869	3.1982257643599
(593355)	17.2	347.34276	53.78972	343.80836	9.18700	0.2146501	3.1731491643599
(593356)	16.5	63.20334	270.87237	10.70586	10.41095	0.1489324	3.2131322643599
(593357)	16.8	35.01964	53.21690	270.35537	8.57010	0.0790181	3.0957437643599
(593358)	16.3	50.43605	31.02787	238.08418	15.47226	0.0981493	3.3956920643600
(593359)	17.4	87.61357	79.83163	145.87645	17.23212	0.1053192	3.1410918643600
(593360)	17.2	15.54350	186.65496	113.78336	11.26107	0.0782551	3.1803784643600
(593361)	17.5	58.34442	138.80229	177.60183	6.67927	0.0477379	2.7796604643600
(593362)	17.0	291.12649	231.56007	200.37714	9.20995	0.1239738	3.0490132643601
(593363)	16.1	190.95634	206.83682	282.67609	17.21590	0.1277441	3.2206999643601
(593364)	16.3	52.38704	347.49190	302.77102	17.62226	0.2650817	3.0806430643601
(593365)	16.4	15.57487	32.95465	313.12353	14.11219	0.1381064	3.0624355643601
(593366)	15.6	86.35049	331.73835	274.04891	15.22753	0.2040025	3.1011616643602
(593367)	17.1	224.58123	321.85800	124.31217	18.59660	0.0888777	2.9936306643602
(593368)	17.2	316.46333	283.25999	130.37799	7.51291	0.1062190	3.0670282643602
(593369)	16.1	358.40300	147.37135	197.48340	10.84690	0.1108566	3.1157756643603

(593370)	16.6	57.54324	92.40337	194.36796	11.47486	0.1129898	3.0330043643603
(593371)	16.4	32.39020	114.89470	199.79341	10.37635	0.1075047	3.0640355643603
(593372)	16.7	83.15032	61.08465	169.54385	16.63496	0.1706268	3.1325815643604
(593373)	16.9	350.73578	196.88254	173.85591	11.14712	0.0863540	3.0194705643604
(593374)	16.8	159.82720	53.23814	153.50660	15.89148	0.0726251	2.9142420643605
(593375)	16.9	15.65482	127.83862	215.67113	9.45111	0.0292684	3.0173700643605
(593376)	17.1	47.82955	148.10901	121.82872	6.58813	0.2168953	3.1494953643605
(593377)	16.5	18.56036	226.14800	112.22863	11.24196	0.1153651	3.0790559643606
(593378)	17.0	24.07087	250.42393	59.64583	8.02342	0.1859948	3.1513097643606
(593379)	16.4	22.17826	43.16506	286.46511	16.81826	0.2053608	3.0823224643606
(593380)	16.3	56.32320	345.96315	306.55792	20.96980	0.0757144	3.1073339643606
(593381)	16.6	120.98204	255.97459	339.06248	9.20543	0.0831443	3.0938237643607
(593382)	16.4	38.62398	220.04688	124.55241	10.83326	0.1008509	3.0185628643607
(593383)	16.1	44.44467	203.76190	89.87047	10.74876	0.0686179	3.0873162643608
(593384)	17.2	48.67829	323.17854	344.31673	10.03060	0.1787111	3.0440963643608
(593385)	17.1	0.52925	303.12286	53.07458	5.77791	0.1385516	3.1143647643608
(593386)	16.4	49.42187	28.65825	277.97730	7.55029	0.0493067	3.0948514643609
(593387)	16.2	14.65636	179.19155	166.04662	11.29941	0.0612818	3.0804557643609
(593388)	16.6	4.98169	239.87156	84.14901	10.65760	0.0994642	3.1736687643610
(593389)	16.9	142.15798	194.40815	18.71433	11.43897	0.0622508	3.0223550643610
(593390)	17.1	318.91439	344.60361	38.47208	11.50405	0.0503880	3.1775183643610
(593391)	16.2	261.23113	14.48125	87.75987	18.62101	0.1739846	3.1536071643610
(593392)	16.7	356.94852	355.73059	2.60395	17.19599	0.1973658	3.1627402643611
(593393)	18.6	84.14821	303.88459	313.60715	16.74465	0.0731994	1.9920726643611
(593394)	16.4	348.96665	127.26322	270.42741	9.46085	0.0793066	3.0057599643611
(593395)	16.2	214.42102	214.12865	307.36380	8.87975	0.0325306	3.0162164643612
(593396)	17.2	292.20201	165.28591	301.13400	9.25845	0.0405194	2.9764866643612
(593397)	17.0	349.67855	261.79490	121.26470	11.31533	0.0905933	3.0138035643612
(593398)	17.0	328.14412	184.47449	204.01917	9.58073	0.0930035	3.1656378643613
(593399)	16.7	18.22659	277.40004	79.96259	9.80035	0.1690914	3.1239975643613
(593400)	16.6	31.49961	265.02475	80.47050	10.14753	0.0774136	3.1063518643613
(593401)	17.4	27.91731	57.14729	299.43387	8.62770	0.1123662	2.9831629643613
(593402)	16.6	24.59683	41.42663	319.06632	9.87115	0.0732126	3.0797321643614
(593403)	16.8	6.89537	41.92699	319.02571	7.93305	0.0941684	3.1784406643614
(593404)	16.8	102.42141	110.08805	139.37762	13.96854	0.0222289	3.1692862643614
(593405)	16.0	62.73678	78.64781	225.05668	9.54435	0.0747457	3.1142936643614
(593406)	16.7	99.90230	346.02491	253.23650	3.61116	0.1191322	3.2074246643615
(593407)	16.5	30.19318	139.21440	225.25489	9.88503	0.0566847	3.1211665643615
(593408)	16.3	294.43361	203.49208	264.71947	11.59674	0.1205405	3.1627349643616
(593409)	17.0	274.12307	285.67934	170.08145	16.41341	0.1898677	3.1533765643616
(593410)	16.6	272.58998	153.93347	303.15544	8.90463	0.0348413	3.1091392643616
(593411)	16.7	164.51671	262.12985	281.03651	8.76082	0.0779205	3.1527466643616
(593412)	16.4	85.75301	301.98378	325.93784	25.74406	0.1474486	3.1180947643617
(593413)	16.8	358.06978	231.30071	148.50187	12.20931	0.0897702	3.0411051643617
(593414)	17.2	71.28381	334.46025	311.98391	8.48645	0.0763098	3.1607946643617
(593415)	17.0	8.57888	202.39872	169.78166	11.15022	0.0828241	3.1231440643617
(593416)	16.8	320.71476	324.38613	86.28644	11.45653	0.0759915	3.1815347643618
(593417)	16.9	117.65289	280.36297	315.36802	8.12091	0.0687721	3.2049811643618
(593418)	16.0	72.78235	27.44707	259.90612	12.85254	0.1014527	3.0531329643618
(593419)	16.8	9.56930	100.02840	270.33776	8.33639	0.1771846	3.0452475643619
(593420)	16.6	36.85915	284.26885	78.76796	6.90497	0.0760566	2.8419903643619
(593421)	16.8	3.84117	14.10625	350.24580	10.14072	0.0755233	2.9813184643619
(593422)	18.9	239.60246	151.09887	322.26340	17.01349	0.0418265	1.9846435643620
(593423)	17.1	11.05596	233.84027	102.19602	11.94339	0.0267709	3.0715128643620
(593424)	16.6	43.00748	217.17513	93.86027	11.42261	0.0978826	3.0289923643620
(593425)	16.4	27.06465	347.03664	351.50484	9.31799	0.0407489	2.9837540643620
(593426)	17.0	242.09576	31.70539	94.39863	11.13775	0.0505728	2.9679678643621
(593427)	16.6	13.33564	65.78425	274.93207	7.81905	0.0885134	3.1423503643621
(593428)	16.7	341.98060	246.29490	158.33970	19.02209	0.2022905	3.0782241643621
(593429)	16.9	334.69629	190.90488	235.49380	10.02554	0.1181846	2.9806984643622
(593430)	17.1	353.65285	12.76698	352.44307	6.79166	0.0517816	3.0880779643622
(593431)	16.9	53.58822	327.12867	343.95716	8.99927	0.0527534	3.0372404643622
(593432)	16.4	254.59388	24.62564	80.81986	8.96840	0.0916106	3.1173465643622
(593433)	16.9	289.30800	339.44757	117.67862	11.33423	0.0636772	3.0032612643623
(593434)	16.2	290.64769	263.01962	130.42228	15.67543	0.0817360	3.3735752643623
(593435)	16.7	79.68863	243.99656	16.15355	9.03965	0.0581685	3.1783490643624
(593436)	16.4	312.24720	270.84230	128.38205	16.55694	0.0405154	3.1656862643624
(593437)	16.7	65.12627	224.02041	72.70924	12.71627	0.1260615	3.0566627643624
(593438)	16.2	66.49593	238.85109	29.20508	17.09760	0.0874616	3.2034145643624
(593439)	16.4	334.54517	268.16173	144.20572	12.71484	0.2254874	3.1521986643625
(593440)	16.1	276.27480	194.56055	280.30989	15.20744	0.1052307	3.0227566643625
(593441)	16.6	131.79956	185.97127	34.48634	9.57702	0.0781195	3.0677041643625
(593442)	16.9	53.87038	171.24311	114.87239	3.21332	0.1559831	3.0470466643626
(593443)	16.9	88.91269	125.45199	118.85944	7.40805	0.1114395	3.0525937643626
(593444)	16.3	347.28755	13.43219	317.46213	10.04256	0.0711181	3.2224941643626
(593445)	16.9	65.70404	151.85900	112.27017	3.77805	0.1400070	3.0812033643627
(593446)	17.3	247.97716	222.20672	302.92998	4.97411	0.0177341	2.7462993643627
(593447)	16.7	39.97122	338.29865	307.21090	16.16674	0.2048351	3.1268494643627
(593448)	17.8	74.12370	222.96641	20.92417	0.66342	0.1296623	3.1402396643628
(593449)	17.1	325.65218	68.17989	311.26381	8.88183	0.0941732	3.1204917643628
(593450)	17.1	284.07006	279.66332	151.43031	3.29090	0.0893230	3.0694852643628
(593451)	16.6	137.04216	234.66144	310.36911	15.89928	0.1861059	3.0920758643628
(593452)	17.2	12.10032	199.52133	124.28141	11.01530	0.1190891	3.1386170643629
(593453)	17.5	85.43692	105.86999	118.71461	11.03130	0.1744834	3.1466615643629
(593454)	17.2	348.62105	262.78275	94.02419	3.44569	0.0574907	3.0883992643629
(593455)	16.7	156.19935	58.63052	121.58065	19.84303	0.1125197	3.0573000643629
(593456)	17.2	306.66572	64.56038	347.28072	4.99306	0.0584812	3.0369485643630
(593457)	17.1	282.57202	118.22604	330.61084	9.78394	0.0808267	2.9852641643630
(593458)	16.8	337.91876	46.90970	353.09162	2.90410	0.1552860	3.0166814643630
(593459)	18.1	251.40880	146.66088	93.10601	3.47727	0.1468583	2.4559085643630
(593460)	16.6	258.61025	350.47957	113.95353	12.04733	0.0771766	3.0214973643631
(593461)	16.7	128.88415	97.07710	122.34610	19.86099	0.0826968	3.0376605643631
(593462)	16.6	314.22062	309.19676	111.31884	10.05898	0.1471460	3.0405735643632
(593463)	16.9	22.65464	231.60822	74.09315	2.42099	0.1706100	3.1817200643632
(593464)	16.3	19.83224	211.02992	127.90661	11.05224	0.1265216	3.0635981643632
(593465)	16.9	352.26163	239.90002	132.84205	15.52991	0.0313275	3.0115929643633
(593466)	16.0	319.99629	95.41100	324.50076	9.78099	0.0919949	2.9755825643633
(593467)	17.1	349.13695	216.56836	126.42850	9.02111	0.0612237	3.1971989643633
(593468)	17.0	239.78848	158.50866	324.78483	9.13138	0.0662340	3.0179807643634
(593469)	17.3	335.56319	280.51616	128.67921	9.63306	0.0625850	2.9468178643634
(593470)	17.0	70.67718	298.01995	338.73316	10.11671	0.1904623	3.0262718643634
(593471)	17.3	80.19119	164.62029	116.13570	10.89430	0.0153550	3.0217160643634
(593472)	16.5	190.81839	29.30412	127.56610	23.48420	0.0294687	3.0934776643634
(593473)	16.7	330.44592	42.26619	342.45902	8.66516	0.1118274	3.1243840643635

(593474)	16.6	6.76468	246.27923	102.55179	10.62513	0.1160265	3.0881967643635
(593475)	16.8	341.21083	289.30415	114.21425	11.88190	0.0942873	2.9695468643635
(593476)	16.5	159.33736	95.72658	90.63650	8.37655	0.0585547	3.0901337643636
(593477)	16.6	268.34567	116.29247	326.04009	26.62508	0.1353623	3.1615338643636
(593478)	17.2	182.47636	48.33495	118.63472	4.19529	0.0522465	3.0893459643636
(593479)	17.2	47.13831	304.29777	337.45557	5.07554	0.2459028	3.1299833643637
(593480)	17.0	353.13624	12.20606	351.46211	10.73397	0.0483179	3.0923456643637
(593481)	16.8	33.71072	228.70204	107.22919	10.71669	0.0798621	3.0187999643637
(593482)	16.0	38.54094	224.22120	100.89392	12.57936	0.1165160	3.0564364643637
(593483)	16.8	32.46753	288.63695	20.89205	10.42443	0.1222246	3.1573425643638
(593484)	16.5	205.17561	97.41465	42.73881	9.82873	0.0440837	3.1791567643638
(593485)	16.9	178.41241	78.35838	111.05146	13.41549	0.1032443	3.0164499643638
(593486)	16.5	242.88246	56.79979	53.29408	7.48285	0.1096529	3.1908672643639
(593487)	16.7	293.07806	307.80619	112.57461	11.79603	0.0089357	3.1464085643639
(593488)	16.9	228.26084	18.82144	109.59584	10.37970	0.1005831	3.1335551643639
(593489)	15.6	255.91978	221.81873	239.47522	14.98714	0.0631704	3.1744484643640
(593490)	16.0	173.31362	299.78303	239.66200	14.51564	0.0916587	3.1534001643640
(593491)	17.0	12.19010	138.22144	233.46956	9.70385	0.2238641	3.0703336643641
(593492)	16.8	235.08080	283.06400	202.35252	16.42712	0.1136205	3.1737742643641
(593493)	16.5	229.00451	275.08483	211.14338	14.23347	0.0944292	3.2103170643641
(593494)	16.6	33.39341	93.21847	263.66040	10.53538	0.0414386	2.9987977643641
(593495)	16.4	350.31963	165.14985	197.55319	18.53435	0.1281686	3.2067371643642
(593496)	16.5	8.72713	251.45443	108.19102	9.78398	0.1402111	3.0795317643642
(593497)	17.2	40.08908	201.04040	92.46579	2.31777	0.1575117	3.0978255643642
(593498)	17.0	49.87882	152.58213	137.96648	12.28451	0.0576206	3.0822348643643
(593499)	17.0	121.70874	319.52398	271.44399	1.41811	0.0941529	2.9796147643643
(593500)	17.5	208.75911	147.18647	0.61326	3.24629	0.0277311	2.9994119643643
(593501)	16.6	282.11027	92.50005	349.58567	15.86264	0.0755040	3.0889199643643
(593502)	17.0	61.34444	282.39151	12.02812	11.03849	0.0622148	3.0883153643644
(593503)	16.5	44.95608	229.56403	64.40143	10.07688	0.0638193	3.1943172643644
(593504)	17.0	10.24876	271.23118	108.36963	10.20989	0.0565317	2.9781918643644
(593505)	16.6	162.36990	212.40553	350.44484	14.71805	0.1549814	2.9759605643645
(593506)	16.9	170.90282	161.64991	16.45392	8.06696	0.0694446	3.1234808643645
(593507)	16.1	349.81060	62.32086	295.62098	7.92172	0.0654809	3.0818819643645
(593508)	16.9	322.25675	103.40549	302.72637	11.28466	0.0554798	2.9814950643646
(593509)	16.9	287.28644	292.34340	131.18890	10.01966	0.1423063	3.1345899643646
(593510)	16.3	301.78117	96.25869	322.21588	10.27576	0.1037241	3.0400857643646
(593511)	16.9	86.51491	230.05381	29.14093	3.31805	0.0537723	3.0555725643647
(593512)	16.6	266.72032	304.05924	135.63015	9.15713	0.1199142	3.1174345643647
(593513)	16.9	283.56981	80.68432	358.42569	12.43319	0.0426175	3.0719609643647
(593514)	16.9	286.13116	99.72613	354.67312	8.75555	0.1418652	3.0248656643648
(593515)	16.6	263.57867	47.71568	36.53228	10.20905	0.0522432	3.1949199643648
(593516)	16.8	182.96021	156.44198	19.96528	9.54489	0.0455297	3.0886621643648
(593517)	16.6	339.95902	283.05502	123.90242	12.66027	0.1242520	3.0375378643649
(593518)	16.6	56.41951	220.29001	92.23719	11.66412	0.1327418	3.0451136643649
(593519)	16.6	308.89357	16.93316	38.76104	9.82608	0.0717984	3.1583224643649
(593520)	16.7	354.91058	304.84892	100.38726	12.57566	0.1517501	3.0004652643650
(593521)	17.2	352.19227	50.17154	38.98389	11.18540	0.0626479	2.7796047643650
(593522)	16.9	47.18290	227.82426	99.79493	10.52611	0.0888852	3.0505952643650
(593523)	16.4	25.50519	280.08608	91.03037	10.74842	0.0933087	2.9801483643650
(593524)	16.3	26.21342	222.73025	59.75022	11.56708	0.1003232	3.4191163643651
(593525)	16.4	7.97840	260.46369	84.58325	12.09249	0.0320539	3.2021926643651
(593526)	17.0	37.44619	302.57301	15.84827	9.94801	0.0743404	3.1362575643651
(593527)	16.6	196.44228	161.39921	24.29978	10.60840	0.0562985	3.0362169643652
(593528)	16.4	155.58259	55.62957	132.53576	10.39708	0.1170997	3.2177897643652
(593529)	16.7	34.35019	194.84268	126.81061	16.15283	0.1586250	3.1547827643652
(593530)	16.5	104.58736	222.17234	25.46848	9.04384	0.0487048	3.1631615643653
(593531)	16.4	41.89136	161.64734	136.69877	16.42104	0.2382126	3.1131595643653
(593532)	16.6	303.00130	135.50321	305.06216	8.24958	0.0450545	2.9870376643653
(593533)	16.6	350.80075	286.47144	111.97708	12.28724	0.1419812	3.0654830643654
(593534)	17.0	15.45344	351.78467	348.24095	8.97526	0.0911748	3.1653770643654
(593535)	16.6	48.64255	186.44124	145.90645	9.63832	0.0565582	3.1779549643654
(593536)	17.0	269.86034	232.34025	257.52527	6.33177	0.0165946	2.9284204643655
(593537)	16.4	328.27682	108.63603	299.73726	14.18292	0.1858040	2.9728243643655
(593538)	16.3	8.65775	28.53862	304.80825	3.78794	0.1966279	3.1815340643655
(593539)	16.2	54.39099	67.75837	235.72981	15.06566	0.0721151	3.0358160643656
(593540)	16.5	2.62475	211.60823	156.80146	11.18310	0.1118639	3.0653856643656
(593541)	16.6	355.73922	22.31083	334.01762	8.48177	0.0940823	3.1731694643656
(593542)	16.7	30.88103	353.91788	335.36400	9.29748	0.0346927	3.0917007643656
(593543)	16.7	351.76856	203.43557	156.89197	16.47471	0.0805116	3.1659249643657
(593544)	15.2	164.32342	282.41372	278.29243	21.25414	0.0885505	3.2323486643657
(593545)	15.8	349.70993	109.12426	278.73339	15.17490	0.1097324	3.1777088643658
(593546)	17.1	356.89590	226.39803	156.39893	9.68015	0.0898630	3.0745141643658
(593547)	16.9	341.90956	178.60516	238.45150	9.36963	0.0889638	2.9943356643658
(593548)	16.7	223.05534	4.19864	138.09351	11.62575	0.1595940	3.1352658643659
(593549)	16.6	177.65051	199.23530	338.66825	11.60946	0.0683330	3.2013442643659
(593550)	16.8	54.11005	124.87904	138.72174	18.72063	0.3804862	3.0752941643659
(593551)	16.8	355.59464	233.37001	130.58831	10.55887	0.1252683	3.0808506643659
(593552)	16.5	12.41217	29.43508	308.52846	7.34115	0.0331118	3.1353792643660
(593553)	17.3	48.98410	144.66943	183.53312	1.09566	0.1785165	2.9852919643660
(593554)	16.6	42.12900	359.79604	291.73531	8.85274	0.1015727	3.1543922643660
(593555)	16.7	353.09953	213.51507	146.52789	16.58257	0.0501042	3.1304356643661
(593556)	16.8	58.60596	111.75741	158.57322	6.73887	0.1932015	3.1256046643661
(593557)	16.2	70.52052	325.94741	330.27873	11.54610	0.1049704	3.1241725643661
(593558)	16.7	356.87627	58.24419	326.88989	12.15742	0.1798383	3.1466063643662
(593559)	16.2	67.76191	71.62493	228.28540	8.37905	0.0851230	3.1359496643662
(593560)	16.0	349.96279	25.67017	332.92717	13.35437	0.0448067	3.2532183643662
(593561)	16.9	90.62799	273.32986	325.16240	4.71950	0.1192521	3.1290532643663
(593562)	16.7	59.29179	322.20297	329.83877	8.04015	0.0824396	3.1557922643663
(593563)	16.7	16.78799	154.56814	219.47508	8.60812	0.1123247	3.0472451643663
(593564)	16.8	11.08095	185.87553	191.20233	10.90208	0.3068794	3.1772985643664
(593565)	16.7	328.04203	80.55936	336.62201	20.04177	0.2038987	3.1588222643664
(593566)	16.8	8.44155	40.25045	324.35861	9.23851	0.2329591	3.1472811643664
(593567)	16.1	73.42076	204.91916	100.92785	15.16700	0.1844453	3.0913961643665
(593568)	16.8	30.56703	138.11021	185.39651	13.86996	0.2996861	3.1540430643665
(593569)	16.5	8.57412	12.24302	352.10368	10.73984	0.0868035	3.1517420643666
(593570)	16.5	337.43351	52.12012	334.65846	10.41821	0.0616718	3.2262965643666
(593571)	16.3	314.46921	256.28339	187.44651	10.72853	0.1860823	3.1243811643666
(593572)	16.5	238.34205	135.36552	0.79752	17.09712	0.0950348	3.2081892643667
(593573)	17.0	293.54094	117.84380	359.08159	9.90557	0.1273081	3.0396321643667
(593574)	17.1	342.92116	145.91501	234.53952	0.43417	0.2247182	3.2646512643667
(593575)	16.9	338.84552	48.76686	4.94809	11.22501	0.1322878	3.1039064643668
(593576)	16.8	269.69580	81.08720	26.90674	5.90003	0.0856591	3.2023800643668
(593577)	16.8	26.48111	179.24172	166.85960	9.20247	0.0932809	3.1644966643668

(593578)	16.7	10.40365	185.19733	179.81597	16.27227	0.0965288	3.1715196643668
(593579)	16.6	90.76855	348.02305	273.68172	2.51597	0.0581921	3.2266158643669
(593580)	16.8	215.63842	331.50265	179.16910	15.46603	0.0425121	3.1833018643669
(593581)	16.5	3.40846	75.63442	293.25177	8.39842	0.1441821	3.1349665643669
(593582)	15.8	70.19811	1.37883	299.64578	11.50224	0.1153792	3.0779928643670
(593583)	16.5	15.14027	99.15615	257.05272	8.73968	0.0775924	3.1294803643670
(593584)	16.1	39.77627	37.97644	293.16452	14.26562	0.0670859	3.1487501643671
(593585)	15.8	9.50367	13.93169	332.41924	8.46764	0.0296162	3.1918822643671
(593586)	16.5	39.17844	322.40602	345.99748	14.46493	0.1342769	3.1938074643671
(593587)	16.9	5.17881	48.45360	338.17979	10.10962	0.1356456	3.0665675643672
(593588)	16.6	22.15597	300.37946	23.05892	1.67749	0.1318175	3.2139802643672
(593589)	16.8	33.83616	154.26075	164.71164	12.63184	0.0544077	3.1855291643672
(593590)	16.5	42.08462	291.61267	8.65091	4.72797	0.1362438	3.1573267643673
(593591)	16.4	321.03674	98.91386	328.97657	24.82240	0.2262472	3.1423430643673
(593592)	16.3	36.05870	319.49892	13.71567	16.37369	0.1241262	3.0983780643673
(593593)	15.8	308.20374	81.16275	339.98484	14.61708	0.0416499	3.1806136643674
(593594)	16.5	46.45727	312.29227	350.55226	15.53803	0.0864167	3.1767893643674
(593595)	17.0	40.76582	341.61634	334.78510	8.63697	0.0854564	3.1654844643674
(593596)	17.2	73.47109	125.24399	144.15366	5.67460	0.1350026	3.1773604643674
(593597)	17.0	122.12947	228.22223	10.36717	11.53230	0.1887772	3.0594393643675
(593598)	16.8	64.17880	304.67128	357.14632	8.82205	0.0622985	3.1283029643675
(593599)	16.3	19.08329	358.28978	16.12429	9.44713	0.0546996	3.1400434643675
(593600)	17.3	359.32433	348.42669	44.62588	0.36339	0.1859700	3.1318228643676
(593601)	16.6	49.40262	166.00168	174.53745	14.36825	0.0683375	3.1241728643676
(593602)	16.9	346.23715	63.25807	326.86877	9.88434	0.1217245	2.9937915643676
(593603)	16.8	352.89375	204.18205	163.83437	5.83426	0.1537880	3.1343657643677
(593604)	16.7	21.33215	180.57162	159.64109	12.63288	0.0615855	3.1595454643677
(593605)	16.5	12.63802	264.74138	100.67676	6.07815	0.1339181	3.1992625643677
(593606)	16.9	31.56835	186.38783	166.53413	10.70123	0.1189984	3.1380982643678
(593607)	16.4	338.75188	204.38164	198.78957	13.33205	0.2251798	3.1967991643678
(593608)	16.5	47.30798	61.56167	274.38603	9.56082	0.1392011	3.0312007643678
(593609)	16.3	340.47893	57.17087	4.19097	26.24228	0.1752057	3.0873836643679
(593610)	16.4	38.45492	230.38668	112.99345	12.27194	0.1704694	3.0768531643679
(593611)	16.5	277.93516	65.33347	22.99902	10.48624	0.0645705	3.3747854643679
(593612)	17.2	86.16635	95.04613	246.38286	8.03209	0.1456361	2.8562217643680
(593613)	16.6	10.28611	325.12979	63.61527	12.77405	0.1352703	3.1085805643680
(593614)	16.6	233.71852	340.13786	167.87623	10.42787	0.0416673	3.1351496643680
(593615)	16.4	55.20884	331.92099	0.95653	14.57886	0.1196138	3.0945373643681
(593616)	7.1	340.93693	198.39392	194.44464	12.06708	0.0181672	43.2188396643681
(593617)	8.5	108.87165	64.55157	197.66122	7.11265	0.0464918	35.0340747643681
(593618)	16.2	197.37302	265.38037	257.34901	12.13405	0.0967337	3.1387347643681
(593619)	16.8	94.40879	270.78568	351.34125	8.77397	0.0379029	3.2230543643682
(593620)	17.1	79.73609	266.56134	7.38147	11.30689	0.0667764	3.2456612643682
(593621)	15.9	344.39382	104.04666	282.38818	17.92936	0.1632069	3.2326704643682
(593622)	16.3	44.50096	73.21040	260.77984	10.39999	0.1392245	3.1053108643683
(593623)	16.8	21.67110	257.07445	109.35825	9.80106	0.1994578	3.1667435643683
(593624)	16.1	314.37947	222.46199	217.76423	17.17212	0.2115100	3.1515554643683
(593625)	16.8	76.36511	264.03881	43.71219	14.07179	0.1064398	3.0866222643684
(593626)	16.9	333.80697	312.04797	98.90279	8.53799	0.1324959	3.1971995643684
(593627)	16.6	338.10172	187.01789	213.30170	6.04774	0.1158882	3.2044635643684
(593628)	16.4	118.35908	348.91823	265.09202	11.19458	0.0446342	3.0374845643685
(593629)	16.1	102.55237	357.38709	244.98749	11.94046	0.1205419	3.1365146643685
(593630)	16.2	38.12589	7.50198	296.83046	13.13944	0.0778005	3.2113222643685
(593631)	16.1	93.53937	332.53781	282.11951	11.53811	0.1245131	3.1493982643686
(593632)	16.7	4.22969	118.22858	235.30846	8.15068	0.1069097	3.1707696643686
(593633)	16.9	18.03958	132.77180	217.90866	9.27153	0.0844748	3.1175101643686
(593634)	16.6	89.00097	34.79871	241.91431	9.41208	0.0880321	3.0721256643687
(593635)	16.9	46.94753	85.61523	255.56863	8.83916	0.1034590	3.0080876643687
(593636)	16.4	125.09332	347.97769	240.87515	8.29497	0.0425519	3.1798030643687
(593637)	16.6	110.58920	315.02143	295.37378	8.43058	0.0504765	3.1379408643688
(593638)	16.8	57.76215	238.47351	77.38268	10.93464	0.0242925	3.0693257643688
(593639)	16.6	349.57845	285.56753	97.38985	11.27621	0.1209074	3.1373261643688
(593640)	16.5	62.77665	279.50255	51.99962	11.79205	0.0674617	2.9724524643689
(593641)	16.6	104.92800	154.27799	89.15419	9.86940	0.1621284	3.1301274643689
(593642)	16.8	50.98003	169.91560	126.40621	11.19556	0.1637261	3.1757623643689
(593643)	16.4	233.68719	61.03703	48.41002	14.12841	0.1516395	3.3870778643690
(593644)	16.3	190.83041	88.61776	88.16722	12.50955	0.1012146	3.1397982643690
(593645)	16.9	34.25615	248.05196	87.49614	12.11824	0.1597210	3.1076106643690
(593646)	16.3	47.74890	224.22768	97.44610	11.37523	0.0866727	3.1131263643690
(593647)	16.7	349.15176	334.62060	57.28152	11.94363	0.0856717	3.0975182643691
(593648)	16.2	169.77931	111.99074	82.99864	10.47922	0.0351376	3.1501315643691
(593649)	16.3	265.50840	18.05496	85.48196	10.31903	0.0408716	3.1635257643691
(593650)	17.6	78.71348	192.68353	192.19351	5.28463	0.1264907	2.7390075643692
(593651)	16.8	59.09073	330.57214	328.79480	8.86473	0.0891114	3.1671147643692
(593652)	16.0	122.87618	309.43813	285.31775	8.66784	0.0645306	3.1610610643692
(593653)	16.4	290.11813	233.27761	217.28874	8.93915	0.0669427	3.1237157643693
(593654)	16.7	162.70548	356.18342	213.18917	9.40685	0.0208924	3.1227836643693
(593655)	16.5	184.23796	345.31190	202.92546	16.85404	0.1551385	3.1474517643693
(593656)	16.8	333.60011	44.36966	333.79961	12.90981	0.0263017	3.2432126643694
(593657)	16.1	350.49040	191.69733	220.80911	27.18180	0.1407792	3.1898876643694
(593658)	18.5	279.26368	352.88694	38.55564	8.37799	0.0387739	2.1954748643694
(593659)	17.5	213.87786	100.66016	206.36910	13.94786	0.1376070	2.6354251643695
(593660)	16.8	347.44974	277.88868	142.79166	9.25272	0.1931287	3.1738372643695
(593661)	15.9	249.70933	73.96448	78.36839	19.55956	0.0571737	3.2111389643695
(593662)	16.5	285.37125	196.33122	266.82901	3.88325	0.1257204	3.2212517643696
(593663)	16.7	318.69663	65.99929	336.56206	16.11690	0.0720442	3.2193614643696
(593664)	16.6	353.61958	165.22241	197.53042	12.70678	0.0860704	3.2160215643696
(593665)	16.8	97.28540	21.77406	229.67924	8.83614	0.1180272	3.0049539643697
(593666)	16.0	281.78116	208.38771	230.60742	7.08050	0.0051285	3.1824621643697
(593667)	16.7	62.03718	21.96683	281.43918	5.70860	0.1002216	2.9958043643697
(593668)	16.5	66.46178	297.54366	314.50654	9.76242	0.2869283	3.1124570643698
(593669)	16.3	285.90084	81.22811	21.22887	13.26587	0.0872543	3.2129199643698
(593670)	16.6	34.08764	89.86286	240.57323	14.25992	0.2915812	3.1306345643698
(593671)	16.4	32.96044	99.92027	253.96500	14.80995	0.1131022	3.1042541643699
(593672)	16.8	339.01527	45.58611	20.22583	14.81300	0.1829912	3.1129337643699
(593673)	16.4	63.91072	63.83079	252.44754	3.69127	0.1484732	3.1030713643699
(593674)	15.5	193.95945	328.39741	212.44454	31.67120	0.0286181	3.2242667643700
(593675)	15.9	294.55325	130.72991	334.55653	13.80933	0.1865284	3.2062279643701
(593676)	15.9	340.77161	185.63764	231.15044	14.28703	0.0576647	3.1622857643701
(593677)	16.7	10.64369	318.12612	60.99383	11.29418	0.2207390	3.1692456643702
(593678)	15.9	256.28653	182.21460	308.17046	10.38110	0.0267897	3.1004403643703
(593679)	16.2	55.39154	54.62881	271.45731	9.99706	0.1081159	3.0814876643703
(593680)	16.6	35.06394	119.98956	227.18240	12.74349	0.1437482	3.1224657643703
(593681)	15.8	79.69233	61.77727	241.99091	10.80085	0.0943617	3.1752480643704

(593682)	16.6	96.50086	317.50591	336.24858	8.71312	0.0965537	3.0293352643705
(593683)	16.9	289.31506	89.83264	353.46922	9.59386	0.0450715	3.2272810643705
(593684)	16.1	204.20892	166.64368	3.94243	9.32380	0.1209428	3.2197864643706
(593685)	16.1	48.02808	32.35612	272.40347	14.08839	0.2032677	3.1342298643706
(593686)	16.5	312.83666	94.24031	349.29729	15.79516	0.2074147	3.1981222643706
(593687)	16.6	20.02242	135.93319	231.90147	17.27928	0.1269358	3.1198307643707
(593688)	16.2	23.31789	151.97109	222.78936	11.44730	0.1231867	3.0979571643707
(593689)	16.2	348.30035	48.87792	354.16781	17.12165	0.0961372	3.1310215643708
(593690)	17.0	68.54292	262.06359	31.76315	6.19364	0.3524318	3.0513216643708
(593691)	18.3	234.97595	70.83935	358.66308	6.76444	0.1677912	2.1957157643709
(593692)	16.6	338.39048	222.34737	189.75314	16.72593	0.1838655	3.1641968643709
(593693)	18.1	124.66227	191.21115	182.94658	2.77143	0.1211637	2.6704425643710
(593694)	16.3	232.62691	318.82170	205.30914	14.83139	0.0921397	3.2221182643710
(593695)	16.1	6.65679	5.75257	10.09791	28.50328	0.1624310	3.2097519643710
(593696)	16.2	27.35823	118.97821	226.19014	15.09538	0.0596453	3.1726066643710
(593697)	16.3	98.47628	24.23866	251.50477	9.99296	0.0375248	3.1561920643711
(593698)	16.1	64.53416	322.77752	338.63189	12.17284	0.1548566	3.1418694643711
(593699)	16.9	50.16175	3.00466	338.90071	9.65353	0.0603067	3.0669593643712
(593700)	16.4	78.33891	321.91279	330.69693	8.38771	0.0725572	3.1583538643712
(593701)	16.8	339.88818	70.45396	349.08851	10.18997	0.1453409	3.1065896643712
(593702)	16.7	20.21292	28.19954	331.46139	10.29597	0.1281223	3.1443158643713
(593703)	16.5	105.32914	58.34788	228.28633	8.94379	0.0868148	3.0636324643713
(593704)	16.1	264.25220	130.87653	7.23341	27.34563	0.2000939	3.1911712643713
(593705)	16.2	71.71504	297.98713	7.84288	17.23114	0.0202544	3.1877047643714
(593706)	16.3	78.11320	68.12696	220.43119	15.21471	0.0714734	3.1866334643714
(593707)	16.7	9.46439	67.46628	319.49799	8.71374	0.0642188	3.0814155643715
(593708)	16.5	289.07141	122.02529	319.65761	4.20230	0.1001384	3.2581991643715
(593709)	16.9	0.47629	356.77372	35.97412	8.25862	0.1653329	3.1233398643715
(593710)	15.9	336.01853	168.78335	259.18140	16.25841	0.1669993	3.1825989643715
(593711)	19.2	129.70317	340.08327	203.35867	0.54560	0.0778999	2.1594981643716
(593712)	15.9	128.27426	29.59406	214.60429	10.04217	0.0382311	3.2162817643716
(593713)	16.7	320.03194	262.22445	184.35562	11.73744	0.1150252	3.0970650643717
(593714)	16.7	264.60028	55.76161	78.61365	12.32332	0.0808492	3.1678866643717
(593715)	16.2	275.65253	50.29418	49.80134	18.52400	0.0930293	3.1058968643717
(593716)	16.5	43.83590	290.77860	43.20099	17.19051	0.1957312	3.1645568643718
(593717)	16.2	356.99466	6.07419	34.02002	28.23348	0.1165849	3.0938369643718
(593718)	16.0	6.59461	235.83556	111.25737	11.10668	0.0966322	3.5271434643718
(593719)	16.8	51.61972	310.76914	26.11161	2.54558	0.0736286	3.1528438643718
(593720)	16.6	43.17639	184.90562	157.67742	9.27080	0.0374388	3.2364160643719
(593721)	19.0	52.35777	41.22883	218.53058	5.21117	0.0162266	2.2027522643719
(593722)	16.8	351.97655	308.94414	86.37560	12.26334	0.1010715	3.1865590643719
(593723)	16.1	353.50258	311.15230	87.72767	18.45899	0.2555392	3.1471404643720
(593724)	18.5	96.86274	311.27637	275.23536	2.49999	0.0929426	2.1822430643720
(593725)	16.7	19.53979	58.57207	311.31041	8.47993	0.0772108	3.1128497643720
(593726)	16.8	333.30217	282.32858	125.10553	11.86978	0.0461737	3.1750946643721
(593727)	17.4	103.86135	270.70436	85.53707	7.70650	0.0778410	2.8334674643721
(593728)	16.5	300.20161	76.17147	33.30564	10.91953	0.1029306	3.0862304643721
(593729)	16.9	350.82437	323.42331	88.28085	11.64724	0.2063780	3.1616888643721
(593730)	16.9	54.29862	284.64290	52.03820	6.35704	0.1186108	3.1194647643722
(593731)	16.6	310.98440	245.72009	193.04614	11.35140	0.1362417	3.2228247643722
(593732)	17.4	346.22689	270.47144	181.60768	1.92977	0.0410610	2.9238495643722
(593733)	16.4	3.34032	331.09911	33.48873	10.26318	0.2121287	3.2036970643723
(593734)	18.6	318.66040	225.70279	184.73241	28.87920	0.1982184	2.0138051643723
(593735)	16.8	354.00395	296.64198	93.95074	4.64607	0.0857723	3.1722394643724
(593736)	16.2	53.87727	268.42478	19.37208	19.07739	0.3098306	3.1697460643724
(593737)	16.8	328.85418	254.26331	164.60603	12.89032	0.1478832	3.1710459643724
(593738)	17.0	314.85643	43.52773	42.37779	11.00678	0.0324786	3.0624509643724
(593739)	16.8	47.22721	233.55579	104.82124	7.01333	0.2020098	3.0720460643725
(593740)	16.8	10.08996	220.41511	161.71686	5.87908	0.1417750	3.1030324643725
(593741)	16.3	340.52763	329.66176	90.63748	15.58710	0.1075325	3.1929796643725
(593742)	16.3	339.65623	317.61875	100.30616	12.71720	0.1667592	3.1679759643726
(593743)	16.8	24.53458	165.23961	190.33874	17.12427	0.1096045	3.1428651643726
(593744)	16.8	331.68391	32.98362	16.32060	11.25707	0.0761387	3.1957314643726
(593745)	16.6	318.66355	254.30161	191.71050	21.56626	0.2139717	3.1345389643727
(593746)	16.6	8.85228	157.38251	221.48757	19.94506	0.1722634	3.1969717643727
(593747)	16.3	286.44754	246.37579	230.51800	8.23853	0.0469814	3.1618030643727
(593748)	16.3	356.29571	175.88053	228.40477	16.35671	0.0549694	3.1586033643728
(593749)	16.6	349.49548	152.73155	227.60143	8.12398	0.0826792	3.0961341643728
(593750)	16.7	55.61424	2.76541	298.67756	7.97765	0.0863177	3.1108850643728
(593751)	16.6	113.64441	355.68988	248.95441	7.94220	0.0293134	3.1160764643729
(593752)	16.5	310.76909	179.01631	229.01372	8.76535	0.0692605	3.1858559643729
(593753)	16.7	16.66760	22.27170	325.70087	8.77178	0.1018036	3.1054642643729
(593754)	16.4	54.32078	72.93740	221.75664	11.27453	0.0472034	3.1651261643730
(593755)	16.5	35.56181	343.88114	329.57782	9.68549	0.0853965	3.1665826643730
(593756)	16.1	39.12428	263.78977	52.14260	31.67836	0.2379799	3.1793699643730
(593757)	16.7	359.24370	294.83319	93.19156	17.64903	0.2386814	3.1716787643730
(593758)	16.7	322.36818	204.96561	194.96327	9.97495	0.0520000	3.3494642643731
(593759)	16.4	285.80067	64.59177	52.92021	10.57926	0.0366714	3.1233431643731
(593760)	16.5	80.17809	108.00852	187.88134	8.53598	0.1319047	3.1946300643731
(593761)	17.0	16.95129	280.56988	78.03511	6.61125	0.1059568	3.2364863643732
(593762)	16.9	317.81700	245.95302	208.20827	17.88236	0.2063668	3.1379862643732
(593763)	16.6	330.93270	235.28214	205.68586	9.65070	0.2092913	3.1399419643732
(593764)	16.5	24.40378	333.28799	32.68882	4.24418	0.1255425	3.1524445643733
(593765)	16.1	290.33431	58.50322	27.52252	10.28939	0.1060848	3.2240964643733
(593766)	16.7	356.47520	2.60467	34.41735	14.94704	0.1524733	3.1033761643733
(593767)	16.6	39.70378	291.09238	64.12836	11.79803	0.0835572	3.1447760643734
(593768)	18.4	179.65108	104.78564	40.05383	5.88611	0.0816212	2.1930620643734
(593769)	16.3	14.12412	350.43768	30.04759	9.85895	0.0984794	3.1857967643734
(593770)	16.3	328.38841	30.83428	49.69070	11.97994	0.1172605	3.1630032643735
(593771)	16.0	350.59251	127.94917	279.32086	21.85148	0.1808983	3.1402384643735
(593772)	16.3	31.19389	287.00856	63.02936	16.76818	0.2442613	3.1337505643736
(593773)	16.4	47.51440	279.85529	59.65735	7.99809	0.1619593	3.1927447643736
(593774)	16.3	48.65743	242.52131	92.22657	2.67630	0.1753435	3.1908447643736
(593775)	16.0	299.33113	293.79519	204.12689	13.14792	0.2559829	3.1570723643737
(593776)	15.7	328.65849	186.89766	248.94295	15.79143	0.1167746	3.2296520643737
(593777)	16.2	33.37264	204.50264	160.69298	11.44784	0.1192282	3.1246454643738
(593778)	16.1	83.26667	314.55293	310.28351	16.62193	0.2092465	3.1867805643738
(593779)	16.0	269.13174	250.45227	233.29974	17.63164	0.1235912	3.2157200643739
(593780)	17.6	130.22169	182.14440	264.69672	12.85281	0.1325496	2.5857468643739
(593781)	18.9	247.53580	315.13621	110.60091	4.00037	0.1542332	2.2174153643739
(593782)	17.9	341.03523	282.02412	68.23288	4.46615	0.0470315	2.1705584643739
(593783)	16.3	56.25418	227.58407	95.91600	11.62476	0.0467667	3.1282228643740
(593784)	17.5	218.58749	53.19443	226.06800	12.55961	0.2425571	2.6549167643740
(593785)	16.6	20.05506	291.48910	94.71250	10.42715	0.0532809	3.1830216643741

(593786)	16.9	335.76802	353.55356	84.99142	6.38633	0.2191514	3.2094869643741
(593787)	16.5	318.84374	320.77333	91.88274	10.86566	0.0644378	3.4928440643741
(593788)	16.2	321.61465	261.69412	138.68965	10.59292	0.1055931	3.5614330643741
(593789)	18.7	278.96133	51.97808	22.00265	0.90432	0.0949769	2.1424499643742
(593790)	18.8	203.93619	263.71560	203.83994	5.99282	0.1018352	2.2459393643742
(593791)	18.4	103.78224	39.28018	187.51994	5.14480	0.0715700	2.1906919643742
(593792)	18.9	194.54576	289.11616	209.34345	1.16334	0.1387810	2.2112946643743
(593793)	15.9	23.73042	204.82252	147.48550	16.35138	0.0886985	3.1980246643743
(593794)	18.7	100.63717	117.33926	90.69565	3.34138	0.1873346	2.2870664643744
(593795)	17.4	249.51675	44.46113	239.11843	11.70423	0.2426557	2.5903776643744
(593796)	17.5	231.59745	146.70934	145.91861	2.68732	0.1816202	2.6497320643744
(593797)	16.1	62.96938	346.01995	297.36388	18.16763	0.1038927	3.1844433643744
(593798)	15.8	33.77374	50.93189	301.49950	17.64677	0.1444854	3.1691240643745
(593799)	18.4	138.51712	132.60261	52.28959	7.22929	0.0338952	2.2281834643745
(593800)	18.4	11.13444	83.70976	239.53464	5.71149	0.1142840	2.1700268643745
(593801)	18.5	100.73235	354.12992	233.92623	4.87563	0.1302898	2.2486963643746
(593802)	18.5	95.64052	335.29898	267.00751	7.68622	0.0772870	2.2052751643746
(593803)	18.1	237.31554	13.63634	53.54139	7.95046	0.0705872	2.2416914643746
(593804)	18.1	129.52183	309.03774	240.88789	6.41489	0.1460503	2.4388876643747
(593805)	18.4	135.46502	310.19922	219.18320	4.90746	0.0987642	2.3008778643747
(593806)	18.4	207.42552	123.04336	336.23860	7.92028	0.0692821	2.2575493643747
(593807)	18.9	97.68927	310.64202	264.69745	1.17734	0.1187933	2.2738004643748
(593808)	17.8	154.09266	289.75367	222.66252	4.15735	0.1872494	2.3673440643748
(593809)	18.1	78.20352	118.63953	118.79214	6.59075	0.0804439	2.3122188643749
(593810)	18.5	111.92606	65.32403	129.11951	1.97005	0.1250683	2.3598038643749
(593811)	18.4	124.25275	38.85050	149.47762	3.01360	0.1105941	2.3547056643749
(593812)	18.2	97.98382	23.94648	181.33532	2.44844	0.1439767	2.4028480643750
(593813)	18.3	132.62329	84.67276	96.67138	5.94132	0.1696418	2.3620832643750
(593814)	17.9	21.46981	206.52034	113.76488	7.06224	0.1807093	2.1958114643750
(593815)	18.4	358.61949	210.04693	123.66459	5.60773	0.2333874	2.1958145643750
(593816)	18.6	191.98108	16.61956	115.17320	7.83946	0.0520498	2.2830621643751
(593817)	18.0	27.95337	29.65726	282.88098	6.84977	0.1754737	2.2196360643751
(593818)	17.9	115.35151	261.20602	271.21722	1.50189	0.1337873	2.4276402643751
(593819)	18.0	129.86192	68.05132	118.38678	9.85350	0.2455505	2.3722628643752
(593820)	17.6	91.08678	339.56732	276.07307	7.31486	0.1548954	2.2529168643752
(593821)	18.5	54.30303	348.38020	289.75476	4.33176	0.1741935	2.2481144643752
(593822)	18.6	208.55559	38.98364	93.06376	3.10999	0.1022622	2.2493976643753
(593823)	18.2	133.89492	323.45994	246.31767	6.46835	0.1375185	2.3247059643753
(593824)	17.8	57.91853	313.56961	289.37468	8.91722	0.1288401	2.4557944643753
(593825)	18.3	122.48880	112.87308	99.70267	3.54062	0.1874529	2.3419722643754
(593826)	18.6	283.65540	102.88276	330.60519	4.35605	0.1175919	2.1988980643754
(593827)	18.2	120.29526	308.28479	241.10957	6.11881	0.0685065	2.3801596643754
(593828)	17.9	26.02500	218.81711	90.52539	7.07243	0.1584717	2.2793237643755
(593829)	18.5	108.36503	202.25753	347.83472	2.33293	0.0558646	2.4049924643755
(593830)	18.2	140.98079	111.93714	78.45713	6.02685	0.0978690	2.3209683643755
(593831)	18.0	179.61966	185.24432	336.87652	8.35825	0.0857591	2.2877489643756
(593832)	17.8	91.42740	265.96928	324.48515	7.40433	0.2315113	2.4197296643756
(593833)	18.6	158.29197	301.27394	207.73414	1.14453	0.0728444	2.3953311643756
(593834)	18.5	94.43590	308.84412	289.33983	2.46873	0.1542059	2.3683534643757
(593835)	18.7	216.57986	342.99592	154.50270	3.12757	0.0658012	2.2589327643757
(593836)	18.0	109.56718	274.31495	304.11531	6.03051	0.0582552	2.3531352643757
(593837)	18.8	270.49275	305.43559	116.51009	3.88690	0.1081643	2.2923477643758
(593838)	18.2	244.32826	38.51204	63.86681	5.54966	0.1092793	2.3053726643758
(593839)	18.4	230.57610	241.01938	211.81512	6.51021	0.1590883	2.2801589643758
(593840)	18.3	118.12794	340.11065	236.23103	7.13544	0.0523247	2.2897282643759
(593841)	18.1	26.10660	70.42897	234.85611	6.86158	0.1413809	2.2898254643759
(593842)	18.7	33.82672	271.63226	55.61281	5.59625	0.0622983	2.2062713643759
(593843)	17.4	126.51528	254.81460	322.59030	6.30714	0.0686799	2.3271580643759
(593844)	18.1	130.86395	71.30786	106.74839	12.81269	0.1236014	2.4012189643760
(593845)	18.3	59.35096	118.74871	120.28547	2.16365	0.1387030	2.4300382643760
(593846)	18.3	59.18597	287.80540	326.88090	6.10517	0.1223368	2.3950509643760
(593847)	18.4	124.84161	231.33277	346.04897	4.77083	0.0906492	2.2798716643761
(593848)	18.4	177.16057	11.75274	149.67012	6.79336	0.0885166	2.2659866643761
(593849)	18.1	174.65677	286.20030	251.39074	4.77843	0.0278000	2.2904415643761
(593850)	18.2	256.44864	67.01680	24.40140	10.03719	0.0720959	2.3037904643762
(593851)	18.4	59.62547	291.28332	310.64565	4.12397	0.1160285	2.3923916643762
(593852)	18.2	149.49419	244.18626	296.49761	7.13804	0.0960579	2.3223744643762
(593853)	18.8	202.84693	171.68721	315.11118	3.96952	0.0826758	2.2786485643762
(593854)	18.4	102.16833	28.58375	209.09018	5.05042	0.0862562	2.2682976643763
(593855)	18.4	174.43974	337.22294	194.65710	5.35928	0.0644742	2.3237608643763
(593856)	18.4	167.43782	147.40147	19.47065	8.59869	0.0840157	2.3095292643763
(593857)	18.3	132.82940	281.43053	272.46214	4.90556	0.0615027	2.3769599643763
(593858)	18.2	219.55327	306.12144	166.91830	22.02625	0.1774691	2.2880128643764
(593859)	18.6	60.98883	103.45646	156.57066	5.08822	0.0839952	2.3872868643764
(593860)	18.6	149.69521	317.70253	227.63456	4.91807	0.1111781	2.3583992643764
(593861)	18.5	103.51608	343.41553	234.43300	5.02882	0.0640852	2.3965595643765
(593862)	18.9	133.73980	281.86527	284.63122	1.92702	0.0924177	2.2682553643765
(593863)	17.5	265.80257	123.18129	186.80318	25.52496	0.0151086	2.7351904643765
(593864)	18.2	170.24161	260.32293	272.67099	5.08905	0.1292355	2.3362256643765
(593865)	18.4	107.78626	329.18578	264.90146	5.00125	0.1063563	2.3756053643766
(593866)	18.4	123.22770	73.43424	104.42079	2.48302	0.1813590	2.4126101643766
(593867)	18.7	159.59412	150.95263	22.84441	2.57282	0.1553852	2.3229996643766
(593868)	18.7	144.76445	102.60910	72.48200	3.48917	0.1463049	2.3668451643767
(593869)	18.1	50.36015	302.10515	334.28789	13.75736	0.2138426	2.4134134643767
(593870)	18.6	130.68156	56.35861	125.04092	4.74811	0.2157178	2.4134200643767
(593871)	18.6	176.34179	23.91878	128.74331	7.05800	0.1134892	2.3249945643768
(593872)	18.4	122.56960	254.89530	286.18900	1.64080	0.1419995	2.4141547643768
(593873)	18.7	145.35836	34.50169	139.86017	6.65133	0.1868289	2.3707249643768
(593874)	18.3	6.86624	31.38909	319.28126	5.30030	0.1993654	2.1906318643768
(593875)	16.3	36.03410	308.08519	125.81547	18.12350	0.1369844	3.1724128643769
(593876)	18.8	141.46621	262.45199	272.91925	1.01459	0.1236576	2.3444797643770
(593877)	18.8	211.52114	31.56882	101.24823	5.60096	0.0866079	2.2654485643770
(593878)	18.1	119.12192	290.44899	258.44870	1.51280	0.1434512	2.4084544643770
(593879)	18.5	94.79559	90.19745	130.88951	2.70920	0.1240156	2.4069485643771
(593880)	18.2	99.80252	121.69328	110.54074	2.49227	0.1417562	2.3672200643771
(593881)	18.5	141.78668	294.24279	262.43203	5.75129	0.0269319	2.2570845643771
(593882)	18.5	148.57633	108.36547	40.88033	2.86130	0.1465004	2.4283047643771
(593883)	18.5	67.93772	291.19132	331.87843	5.24446	0.0407381	2.3622992643772
(593884)	18.7	208.61610	207.67959	273.47593	3.46040	0.0651177	2.3033910643772
(593885)	18.1	130.47537	308.90596	255.71813	2.38953	0.0772700	2.3902995643772
(593886)	18.6	130.00819	18.38201	173.96039	1.06328	0.1297029	2.4341035643773
(593887)	17.9	140.23353	330.39660	229.38843	9.79242	0.1320911	2.3573859643773
(593888)	18.2	83.98174	354.11132	256.85553	4.53866	0.0807429	2.3523777643773
(593889)	18.6	100.44423	313.08315	275.54055	2.85503	0.1492428	2.3916823643774

(593890)	15.9	348.63817	61.24322	322.86547	23.71576	0.2264606	3.6979057643774
(593891)	18.5	118.73257	17.55043	172.78382	4.24115	0.1589645	2.4140038643774
(593892)	18.0	119.00997	283.48911	296.92892	6.47430	0.0582066	2.3053920643774
(593893)	18.0	63.69370	336.65092	291.15002	1.59223	0.1910139	2.3589133643775
(593894)	18.1	113.83008	74.57608	134.12264	2.01698	0.1391058	2.3779943643775
(593895)	18.5	175.11870	246.99042	263.52735	3.43810	0.0966012	2.3364566643776
(593896)	18.1	162.48246	270.87802	220.47208	1.50130	0.1611148	2.4254267643776
(593897)	18.5	171.10121	18.95962	138.00844	2.82921	0.1661579	2.3441773643777
(593898)	17.9	92.35547	294.74099	294.74030	11.97428	0.1775947	2.3891525643777
(593899)	18.2	61.00810	6.10032	273.02043	5.99357	0.0932573	2.2956229643777
(593900)	17.9	85.17683	283.45304	320.49333	6.05746	0.2363908	2.3989861643777
(593901)	18.4	212.81093	3.51540	93.54295	4.91621	0.1509436	2.3401636643778
(593902)	16.9	44.46184	238.74798	39.69200	6.80016	0.1191479	2.4136091643778
(593903)	18.8	256.87005	124.39440	317.75160	2.60528	0.1176944	2.2599952643779
(593904)	18.1	38.80625	157.65213	126.85392	8.64879	0.1069617	2.3523350643779
(593905)	18.1	139.68623	162.46408	23.49820	4.70072	0.1923526	2.3769627643779
(593906)	18.4	144.78059	178.93480	9.20457	6.95308	0.0492024	2.3258626643780
(593907)	18.0	267.39381	37.25908	66.95303	5.61379	0.0737125	2.2189115643780
(593908)	18.0	177.69333	261.26693	271.48425	4.47648	0.1666220	2.3353772643780
(593909)	18.1	123.73988	131.89185	40.66765	3.08001	0.1447399	2.4343870643781
(593910)	18.1	159.16770	117.04674	37.36967	1.94482	0.1252315	2.4126934643781
(593911)	18.7	298.25597	7.58636	56.19767	6.13705	0.1779972	2.1986251643782
(593912)	18.0	43.28979	256.17820	28.24668	8.47737	0.2142838	2.3994705643782
(593913)	18.3	74.36507	235.79073	3.29747	10.50878	0.2079399	2.4550158643782
(593914)	18.4	81.36986	346.90889	260.51807	5.80588	0.0913665	2.3538201643782
(593915)	18.1	90.47024	1.17290	227.37408	4.71899	0.1220068	2.3982034643782
(593916)	18.4	116.81171	316.19558	278.68630	6.62796	0.0915246	2.3024757643783
(593917)	18.9	197.80190	210.63202	293.43694	6.23781	0.0535691	2.3009034643783
(593918)	18.9	237.25602	214.38826	238.53493	2.96153	0.1308029	2.3052094643783
(593919)	18.1	44.51653	35.02580	237.59714	1.46423	0.1956698	2.4662597643784
(593920)	18.6	131.74791	355.87164	172.09180	6.69615	0.0347958	2.4138901643784
(593921)	18.1	97.47049	14.44487	220.33532	2.50807	0.1845393	2.3846003643784
(593922)	18.4	112.10156	69.30086	125.78034	6.02649	0.1265857	2.3950795643785
(593923)	18.7	223.01038	327.39748	173.14837	3.83910	0.0362316	2.1930716643785
(593924)	18.6	87.37213	110.28157	127.03552	6.15572	0.1215040	2.3481072643785
(593925)	18.5	118.48232	332.22137	236.46693	0.64894	0.1335500	2.3641231643786
(593926)	18.6	240.52570	317.75001	146.57727	5.54566	0.1191912	2.2584825643786
(593927)	18.0	44.98265	332.86564	314.44657	2.16971	0.1766539	2.3246045643786
(593928)	18.2	162.42867	206.79645	306.07690	1.23018	0.1558393	2.3519411643787
(593929)	18.8	212.78019	183.17624	323.97962	4.58469	0.0185659	2.2156399643787
(593930)	18.4	101.42701	18.93264	216.63517	6.55876	0.1533391	2.3346404643787
(593931)	18.7	134.13493	143.06240	34.32268	2.99180	0.1314940	2.3990040643788
(593932)	18.0	65.96221	149.93337	136.51234	6.38454	0.1079169	2.3155056643788
(593933)	18.2	53.08046	246.92825	31.67981	7.26958	0.0774154	2.4162782643788
(593934)	18.6	116.93673	229.08822	1.67235	2.79712	0.0466907	2.2988482643789
(593935)	18.2	162.64011	216.25997	306.27478	3.82118	0.1586280	2.3654829643789
(593936)	18.7	266.45659	114.47163	321.98539	5.37161	0.0830732	2.2786749643789
(593937)	18.4	348.75701	226.45897	155.22670	6.55088	0.1156980	2.2029026643790
(593938)	18.7	209.07445	128.33812	355.03806	3.27785	0.0984908	2.3281630643790
(593939)	18.4	294.50194	249.51720	141.79745	6.46876	0.1166138	2.3381403643790
(593940)	18.7	100.64409	112.21998	121.32654	6.95853	0.0676712	2.3633762643791
(593941)	18.2	109.33186	243.99075	354.45900	6.40671	0.0804449	2.3236364643791
(593942)	18.1	321.69487	286.28602	83.77201	11.48919	0.0889330	2.3156693643791
(593943)	17.8	39.06826	316.19506	3.89771	25.75490	0.1492148	2.2615035643791
(593944)	18.0	64.44615	241.96005	23.55335	15.10048	0.0506296	2.3684238643791
(593945)	18.4	87.04953	127.65011	96.21299	3.46919	0.1494503	2.4265830643792
(593946)	18.2	324.61128	16.76172	337.62957	4.89770	0.1148227	2.3253541643792
(593947)	18.1	68.37293	152.30006	93.25255	2.53091	0.1463599	2.4209458643792
(593948)	18.2	133.03122	301.16645	265.70251	3.15311	0.1649167	2.3790607643793
(593949)	17.9	149.13352	111.96397	69.93960	2.17909	0.1300397	2.3584777643793
(593950)	17.8	97.92656	168.26809	46.28074	12.31921	0.1815451	2.4572796643794
(593951)	17.7	95.74830	304.70181	311.27851	6.79166	0.0658986	2.4252141643794
(593952)	17.1	70.53737	271.66920	343.89126	10.70378	0.2573070	2.5758903643794
(593953)	17.3	110.94829	312.98169	273.87857	5.97546	0.0838166	2.3272071643795
(593954)	18.0	96.61172	326.21831	236.13099	5.18522	0.1281404	2.4546565643795
(593955)	18.2	72.48739	228.50806	29.94677	7.05433	0.1421537	2.4339492643796
(593956)	18.0	98.60763	52.09841	149.28113	13.88134	0.1905609	2.5597225643796
(593957)	18.3	71.08785	78.97299	182.02730	5.85126	0.0957368	2.3863378643796
(593958)	17.6	243.68246	190.47181	264.25020	5.74496	0.1027448	2.4100252643797
(593959)	18.7	288.94539	209.61263	214.73564	3.46177	0.0785187	2.2697297643797
(593960)	18.3	167.82757	323.88639	212.26542	3.55852	0.0420803	2.3461301643797
(593961)	18.1	117.76128	345.96811	207.42327	1.17767	0.1489821	2.4541019643798
(593962)	18.1	108.27074	231.23627	4.90742	4.44256	0.0816272	2.3403050643798
(593963)	18.7	83.00720	161.67335	83.53315	3.33194	0.0372836	2.3760010643798
(593964)	18.2	111.38501	92.45640	111.64786	4.65872	0.1286558	2.4445270643799
(593965)	18.6	193.21326	120.43427	37.41468	7.22903	0.0406509	2.2732355643799
(593966)	18.7	115.72543	66.50155	134.84756	6.36486	0.0811663	2.4142701643799
(593967)	18.3	127.80606	201.42716	340.66300	7.74515	0.1286566	2.4245228643799
(593968)	17.8	92.66908	259.08335	322.15435	3.77904	0.1863389	2.5528726643800
(593969)	17.8	84.14778	45.83902	165.72564	31.91788	0.1290456	2.5884629643800
(593970)	18.2	57.09138	171.47611	91.50001	6.97912	0.1551783	2.4038578643800
(593971)	18.4	58.81760	151.07485	108.59563	4.44788	0.1528409	2.4437632643800
(593972)	17.8	52.39288	200.95755	102.17401	8.03577	0.1248334	2.3629992643801
(593973)	18.8	114.11342	346.90235	240.55907	3.28616	0.1380462	2.3787113643801
(593974)	17.9	131.39891	23.23529	148.40775	19.01236	0.1339474	2.5546063643801
(593975)	18.4	119.66687	238.97656	344.29892	3.49350	0.1354702	2.3535001643801
(593976)	18.5	176.61257	37.63352	121.01238	9.43140	0.0511355	2.3538878643802
(593977)	16.9	52.95101	126.55348	144.19297	31.15816	0.3037142	2.6528514643802
(593978)	18.1	85.52305	354.12373	249.36699	5.57327	0.0871197	2.3722252643802
(593979)	18.4	84.99859	17.84546	219.36379	1.81603	0.1362915	2.3886142643803
(593980)	18.3	115.36814	292.18399	281.46463	3.64383	0.1306024	2.3775559643803
(593981)	18.2	155.62930	246.90909	269.85399	1.59820	0.1282935	2.4099119643803
(593982)	17.8	163.84958	185.89078	323.54719	4.75379	0.1237856	2.4021258643804
(593983)	18.2	101.04062	39.63273	192.61895	2.11593	0.1712586	2.4003651643804
(593984)	18.0	295.55804	266.55735	170.36667	6.38660	0.0408380	2.2396381643805
(593985)	18.6	176.42247	187.83174	325.07983	5.35896	0.1604367	2.3767546643805
(593986)	18.3	147.92425	178.10638	14.91717	4.41268	0.0954200	2.3480059643805
(593987)	18.8	228.93746	29.72187	89.41249	2.49502	0.1148243	2.2877426643806
(593988)	17.9	111.39245	255.73879	335.82848	9.37791	0.1496884	2.3714032643806
(593989)	18.1	238.22863	82.99361	22.14987	10.19546	0.0531276	2.3211339643806
(593990)	18.8	239.54262	290.15497	158.20645	4.84399	0.1891103	2.3149284643806
(593991)	18.2	101.53036	210.07027	13.20308	6.27440	0.1256223	2.4509054643807
(593992)	18.6	274.36445	174.53668	264.75410	5.91688	0.0728274	2.2971143643807
(593993)	18.5	143.06163	170.21326	25.25529	3.45232	0.0535215	2.3485438643807

(593994)	18.5	158.40648	150.87981	21.85686	2.94478	0.1348923	2.3809298643807
(593995)	17.9	106.04066	121.70802	95.99222	5.82278	0.1258727	2.4110755643808
(593996)	17.3	53.38944	237.38701	72.40719	13.57531	0.1812125	2.3455959643808
(593997)	17.4	64.47525	169.50949	92.47189	15.20408	0.0918060	2.5290045643809
(593998)	17.6	29.53581	270.71172	81.86499	7.26623	0.0900525	2.2156741643809
(593999)	17.8	45.83737	354.29803	278.88723	7.66780	0.1861846	2.5403805643809
(594000)	18.0	212.33951	298.99458	203.84230	21.96510	0.1943673	2.3126782643810
(594001)	17.7	4.06303	27.45994	305.70431	8.52567	0.1052564	2.4456194643810
(594002)	17.7	32.71445	297.65384	352.72430	8.39335	0.1560442	2.5587356643810
(594003)	18.0	193.98472	141.07202	23.78226	7.73629	0.1269126	2.2795074643811
(594004)	17.6	79.47827	147.24651	113.49805	11.29543	0.1835289	2.4091688643811
(594005)	18.0	89.98870	35.72998	207.14558	12.27435	0.1730275	2.3724625643811
(594006)	18.1	170.05568	212.77539	330.86426	5.78189	0.1083037	2.3118578643812
(594007)	18.5	218.99453	290.01618	192.21634	4.43917	0.1778673	2.3021308643812
(594008)	18.2	86.24553	145.05395	101.31008	3.54617	0.1782969	2.4158664643812
(594009)	18.5	114.39619	358.36436	202.16034	0.71917	0.1281526	2.4450593643812
(594010)	17.8	77.34843	210.50612	49.30242	5.03363	0.1589407	2.4404597643813
(594011)	18.7	188.18928	322.71455	170.04249	5.93785	0.1306579	2.3701432643813
(594012)	17.6	242.81343	342.63248	152.36799	7.39482	0.0953766	2.2971045643813
(594013)	18.3	214.09918	73.10682	38.20171	1.07433	0.1736868	2.3675987643814
(594014)	17.5	210.97728	61.72296	52.59643	3.98127	0.0677132	2.4133743643814
(594015)	17.3	210.25694	329.22145	184.40789	24.41590	0.1880440	2.3130969643815
(594016)	18.1	24.76670	301.69525	37.19642	3.45854	0.2277675	2.3089937643815
(594017)	17.6	28.36620	302.28391	22.07997	7.17907	0.1364699	2.3309793643816
(594018)	18.1	55.61912	288.61624	304.91193	3.40944	0.2385362	2.6225499643816
(594019)	18.3	86.32340	208.66063	9.44960	4.19775	0.2195695	2.5518192643816
(594020)	18.3	28.49748	135.53565	178.33658	8.16403	0.0716874	2.3985210643817
(594021)	18.1	216.98582	123.47043	17.21815	5.86737	0.0979229	2.3126452643817
(594022)	18.3	212.34387	67.76098	65.62982	2.75832	0.1878865	2.3341026643817
(594023)	17.9	90.77868	211.68481	4.74457	13.34039	0.1801536	2.5425765643818
(594024)	17.6	19.32741	94.90846	182.78202	14.86388	0.1231368	2.6361199643818
(594025)	18.5	203.01266	304.96839	177.54062	5.35920	0.1008115	2.4134292643818
(594026)	17.8	185.92275	57.03820	89.16644	13.35617	0.0915373	2.3572835643819
(594027)	17.6	83.61977	223.17604	5.60941	17.05422	0.2508698	2.5653051643819
(594028)	18.4	218.72631	310.71009	188.09403	2.43931	0.1633248	2.3307184643820
(594029)	18.5	206.90215	115.02630	3.82145	4.11390	0.0952292	2.3805888643820
(594030)	17.8	26.91567	344.13087	338.20587	5.66316	0.1285156	2.3758323643820
(594031)	18.4	189.41500	288.63622	226.78383	2.66448	0.1179097	2.3283141643821
(594032)	16.6	45.77606	236.06256	5.64555	31.47295	0.2422047	2.6240151643821
(594033)	18.9	261.30787	345.47500	73.23609	2.21636	0.1786984	2.3370559643821
(594034)	17.4	50.27733	168.38947	97.12670	16.33623	0.1180141	2.6154241643822
(594035)	18.7	109.25887	213.83234	354.92268	4.57167	0.1438424	2.4667472643822
(594036)	17.4	88.22694	38.36701	179.87395	29.40231	0.1687910	2.5868108643822
(594037)	18.6	158.39658	353.61479	168.90191	1.40407	0.1106482	2.4352260643823
(594038)	18.3	161.40026	37.77674	139.87563	3.06750	0.0324070	2.4163999643823
(594039)	18.3	227.90938	33.59961	79.92731	6.16384	0.1122018	2.3506507643823
(594040)	17.7	52.64148	75.54822	202.69515	13.09880	0.1518888	2.5590909643824
(594041)	18.3	151.94201	202.43299	349.54465	6.66671	0.0698382	2.3562341643824
(594042)	18.5	47.08026	2.73617	277.01426	1.25767	0.1049600	2.5266141643824
(594043)	18.2	48.09045	142.82003	134.20021	8.34794	0.1785072	2.5360831643825
(594044)	17.8	102.49452	311.68245	271.86635	2.42710	0.0691537	2.5492258643825
(594045)	17.9	73.90414	197.59918	68.62126	14.91810	0.1278734	2.5371929643825
(594046)	17.5	54.75534	192.19833	85.34741	3.13184	0.1540193	2.4581331643826
(594047)	18.0	59.58733	210.86929	63.77798	2.45991	0.1594764	2.5745655643826
(594048)	17.8	91.40010	320.10748	255.13730	7.20582	0.1781566	2.5515018643826
(594049)	18.6	60.81807	188.92935	77.98297	3.78050	0.1335720	2.4324339643827
(594050)	18.1	93.05650	347.46018	232.51101	4.84245	0.0943847	2.5798166643827
(594051)	18.5	80.33639	28.30094	219.67305	4.86803	0.0555961	2.4331746643827
(594052)	17.5	26.40967	3.63307	269.00207	11.01620	0.1624673	2.5963242643827
(594053)	17.8	58.47732	271.87953	22.52428	5.86392	0.1101564	2.3728374643827
(594054)	17.4	227.09270	87.26318	40.55281	7.89495	0.0423860	2.3383398643828
(594055)	18.2	33.52432	121.86216	151.54557	5.85953	0.2663983	2.6212736643828
(594056)	18.4	200.42234	22.72338	114.97764	7.20696	0.0718333	2.3476565643829
(594057)	17.8	220.09487	214.82647	274.49151	5.49827	0.0917855	2.2964541643829
(594058)	18.2	242.87620	218.21483	234.38220	6.85574	0.0676936	2.3334279643829
(594059)	17.9	60.54931	220.69106	67.75720	2.46226	0.1838027	2.4428572643830
(594060)	18.4	96.60680	80.65907	181.80729	7.47999	0.0963538	2.3824270643830
(594061)	18.3	156.80786	118.26488	44.71677	3.03601	0.1308223	2.4552047643831
(594062)	18.7	220.05489	79.70773	42.99747	2.91106	0.1615626	2.3505367643831
(594063)	18.4	259.05851	75.14283	31.28643	6.68637	0.1239039	2.2970460643831
(594064)	18.1	70.57988	243.12830	351.34827	1.09428	0.1211849	2.5611245643831
(594065)	18.2	125.84324	120.89278	86.98209	5.44539	0.0355206	2.4557349643832
(594066)	17.7	61.07637	280.57163	331.85198	5.51097	0.2664896	2.5757736643832
(594067)	18.5	108.42547	311.43051	286.36250	5.77055	0.1350560	2.4054611643833
(594068)	17.9	113.24397	40.76452	183.52351	17.61167	0.1186706	2.5303093643833
(594069)	17.4	39.01975	254.46105	55.43143	13.85303	0.1803151	2.5582401643833
(594070)	17.0	108.05634	30.13913	199.38225	26.75236	0.0465777	2.5867232643834
(594071)	17.8	48.99923	115.40611	136.56749	5.65004	0.1401015	2.6234804643834
(594072)	17.5	95.49574	134.35985	94.13482	15.17812	0.0843700	2.4777988643834
(594073)	17.4	33.10631	126.97061	172.70087	15.42387	0.1843244	2.5763073643835
(594074)	14.0	321.54846	339.38914	65.69377	20.83453	0.0327940	5.2627260643835
(594075)	16.7	122.00771	152.63587	41.22491	33.12366	0.2285743	2.5726635643835
(594076)	17.8	28.50550	112.14814	199.22028	5.91521	0.1905154	2.5850591643836
(594077)	18.0	39.66804	196.57541	112.93798	2.78897	0.1768265	2.4562402643836
(594078)	18.2	154.07103	196.59340	359.87076	6.28290	0.0261394	2.3540504643836
(594079)	18.4	29.91782	311.49638	1.91981	5.94967	0.0955049	2.4049841643836
(594080)	16.8	349.26669	332.07916	10.11992	14.99329	0.1585516	2.4484470643837
(594081)	18.4	281.86414	230.10395	182.39256	1.38383	0.1753113	2.3723466643837
(594082)	17.4	24.43210	159.52268	164.79291	7.10638	0.1093051	2.4075933643838
(594083)	18.2	32.53929	88.60596	197.28181	2.43057	0.2152827	2.5664981643838
(594084)	18.4	0.43266	323.41825	6.62237	6.59226	0.1138594	2.4769775643839
(594085)	18.8	277.96626	259.74639	166.58082	1.23761	0.1617973	2.3527123643839
(594086)	18.3	346.57470	220.57846	134.84270	2.02008	0.1954613	2.4312610643839
(594087)	18.8	287.00834	311.65985	114.83224	2.78997	0.1975819	2.3180947643839
(594088)	18.3	348.98026	323.54251	52.25382	6.73479	0.1674223	2.3528803643840
(594089)	18.0	13.77503	285.06728	30.70634	4.30295	0.2749246	2.5667423643840
(594090)	17.8	275.06419	332.43008	64.46450	2.55904	0.0424586	2.5105008643840
(594091)	17.7	101.65019	23.94177	172.01608	13.80894	0.1769445	2.6375516643841
(594092)	18.1	94.32699	60.21668	145.75686	13.82707	0.1975871	2.6343625643841
(594093)	18.0	185.78660	29.28943	156.49024	4.36600	0.0412004	2.3326311643841
(594094)	17.9	206.01518	166.03794	321.43427	7.88501	0.2041052	2.3412143643842
(594095)	17.4	113.77819	272.14133	304.84961	11.36028	0.1280983	2.4336688643842
(594096)	14.6	53.39110	144.85802	172.06266	7.73743	0.0153687	5.1834663643842
(594097)	17.5	140.97292	187.80336	37.91331	5.39719	0.0774834	2.3154710643843

(594098)	17.9	31.05944	208.42223	118.08156	7.47604	0.1213379	2.4055310643843
(594099)	18.2	155.07595	77.30047	78.69469	4.77403	0.1701163	2.4659804643844
(594100)	17.2	35.38923	276.18425	41.51590	10.24033	0.1940800	2.4236857643844
(594101)	18.2	244.25589	346.69760	124.54132	5.56868	0.1543040	2.3137386643845
(594102)	17.5	8.20117	291.90264	60.41695	7.79715	0.1551864	2.3628941643845
(594103)	17.9	44.72858	241.25630	41.23535	2.95402	0.0937840	2.5194765643845
(594104)	17.9	32.57524	145.46245	165.51971	5.98092	0.2255004	2.5231524643846
(594105)	18.3	28.12247	180.00362	116.16937	3.86817	0.1220774	2.5540158643846
(594106)	17.1	320.89115	271.73880	106.60635	6.53052	0.1266408	2.4663408643846
(594107)	17.5	335.26398	264.90496	131.67659	6.22242	0.1820886	2.3630193643847
(594108)	18.0	149.86828	120.29426	81.15977	6.80272	0.0504969	2.4079921643847
(594109)	14.4	216.22421	22.33928	136.03402	8.75094	0.0241671	5.1479741643848
(594110)	18.2	177.29592	359.31956	146.93053	9.13557	0.1399858	2.4642866643848
(594111)	18.0	163.07061	336.60510	165.48310	12.16689	0.1265344	2.5420076643848
(594112)	17.9	138.75381	345.02518	185.74021	7.15135	0.1562836	2.5690658643849
(594113)	18.0	42.82666	75.58834	198.46651	13.80948	0.2220610	2.6637626643849
(594114)	17.9	80.06887	100.84317	117.38607	5.40321	0.1947080	2.6631829643849
(594115)	17.4	107.67814	80.71208	138.76896	6.48820	0.1718258	2.5585609643849
(594116)	18.4	213.84774	18.45109	101.16418	5.47419	0.1251282	2.3975936643850
(594117)	17.9	336.64869	246.79070	119.08461	7.34965	0.1268481	2.4329423643850
(594118)	17.4	69.13117	175.99431	109.76729	3.43699	0.2051239	2.4361281643851
(594119)	18.0	78.92228	157.96431	118.79351	3.18276	0.1650782	2.4541047643851
(594120)	16.8	53.07705	258.40776	8.81651	11.52512	0.2231321	2.5914353643852
(594121)	18.4	172.49250	106.24198	49.00285	3.42108	0.0416145	2.4398475643852
(594122)	18.6	72.52348	199.33096	75.58262	2.75546	0.1601655	2.4440283643853
(594123)	17.9	340.56603	312.69292	35.56173	6.95416	0.1372370	2.4775873643853
(594124)	17.7	78.36000	280.18488	323.74082	7.22941	0.1629631	2.5866590643853
(594125)	17.5	25.44211	222.35260	81.91159	12.26725	0.1984572	2.6316804643853
(594126)	14.0	40.96681	282.28419	82.41243	22.29657	0.0856200	5.1843832643854
(594127)	18.1	51.02141	132.19205	138.36545	6.37461	0.1790967	2.6478084643854
(594128)	17.5	41.95429	88.67441	211.14407	13.55416	0.0317882	2.5184940643854
(594129)	18.2	198.37945	194.72404	329.56247	5.67459	0.0476195	2.3460436643855
(594130)	18.4	147.14978	245.79694	322.58965	2.69597	0.0785161	2.3839989643855
(594131)	17.9	37.56533	264.40103	21.47387	15.10968	0.1188893	2.5509152643855
(594132)	18.1	50.68270	47.53264	215.69554	1.86820	0.0842375	2.5918938643856
(594133)	16.9	42.91453	201.78075	67.41495	16.00332	0.1903661	2.6846343643856
(594134)	18.2	69.22471	164.21312	86.91892	1.56058	0.1102473	2.5537443643856
(594135)	17.4	79.93803	8.05074	220.60067	17.68139	0.1927300	2.6347572643856
(594136)	17.8	78.10849	61.62096	178.36133	15.63895	0.1196236	2.6267282643857
(594137)	17.4	83.38991	162.80569	72.30795	15.71177	0.0980912	2.5870781643857
(594138)	17.8	354.20277	301.98832	32.08784	17.53553	0.2690115	2.6126160643857
(594139)	17.9	22.78756	151.03216	174.52232	10.61002	0.2526185	2.5817274643858
(594140)	17.3	100.08201	150.34945	61.37383	14.16111	0.1908954	2.6058283643858
(594141)	18.0	136.95294	25.66700	148.77015	6.04442	0.1288901	2.5825498643858
(594142)	18.6	162.32967	42.72220	121.15159	3.34636	0.1102114	2.4445441643859
(594143)	18.2	12.31651	238.15763	97.99746	8.95390	0.0884904	2.4428963643859
(594144)	18.1	9.28853	218.87425	77.26230	4.47508	0.0985766	2.6332335643859
(594145)	17.6	34.49002	89.25119	207.74512	7.85664	0.1617348	2.5674171643859
(594146)	17.7	154.89110	148.41540	50.37264	7.37716	0.1373310	2.3975015643860
(594147)	17.4	73.74985	200.12193	45.77581	2.52717	0.2310227	2.5814974643860
(594148)	18.1	137.29806	94.64408	60.84779	2.28925	0.0315237	2.6151645643861
(594149)	17.5	167.36529	317.75433	223.21678	7.18527	0.1543173	2.4191257643861
(594150)	14.2	331.44831	306.19172	110.69503	10.16617	0.0760150	5.1807667643861
(594151)	17.6	27.40631	290.21334	13.49288	15.50335	0.1962886	2.5512417643862
(594152)	18.0	62.72815	136.68470	133.08575	13.64089	0.0956291	2.5229093643862
(594153)	17.8	49.22179	196.75043	68.14766	12.82049	0.0825957	2.6151354643862
(594154)	18.1	83.25644	20.75661	198.59901	6.59479	0.2158509	2.6020978643863
(594155)	17.1	34.05880	214.62194	83.39346	14.91462	0.2463693	2.6373391643863
(594156)	17.5	84.67489	76.64685	157.46683	9.85470	0.1581631	2.5786542643863
(594157)	18.0	255.27857	38.76747	72.17544	10.65637	0.1255656	2.3172839643864
(594158)	17.4	332.40476	300.39711	75.67456	16.72310	0.1992782	2.5238440643864
(594159)	17.6	25.48360	236.02760	51.78856	13.40587	0.1962364	2.6621227643864
(594160)	17.5	96.70212	93.26304	143.13008	13.09142	0.1119820	2.5339343643865
(594161)	17.7	42.78637	169.25485	127.38005	16.01672	0.1679064	2.5700808643865
(594162)	18.2	261.19428	240.09649	220.98776	6.24207	0.0746010	2.3904243643865
(594163)	17.4	7.28738	284.05126	40.46707	5.97115	0.1088181	2.5758716643866
(594164)	17.8	112.69159	10.24748	211.67237	8.62271	0.0807296	2.4558834643866
(594165)	16.4	108.90881	172.15903	37.78533	15.93958	0.1144165	2.5695556643866
(594166)	18.1	65.65637	90.81603	151.21001	6.57999	0.2601938	2.6411045643867
(594167)	17.4	11.68446	230.15353	83.48615	15.28824	0.1714659	2.5975937643868
(594168)	17.5	47.37361	141.34898	136.34788	13.91158	0.2660975	2.6474230643868
(594169)	17.7	157.42859	25.96237	143.41243	18.84452	0.1323427	2.5444593643868
(594170)	18.0	45.79910	68.13102	229.22037	3.02737	0.1912792	2.5716644643869
(594171)	17.6	197.11594	314.34676	184.19801	14.37293	0.0493090	2.5251769643869
(594172)	17.7	30.28010	153.44797	155.66972	14.19968	0.1775019	2.6011739643869
(594173)	17.4	275.57386	299.53145	109.17466	26.56512	0.0790413	2.5856016643870
(594174)	18.1	134.40077	9.87503	161.75099	12.29532	0.1193643	2.5718177643870
(594175)	18.0	54.45473	38.33961	238.41327	5.39486	0.1417271	2.5881157643870
(594176)	17.4	321.22345	248.94891	102.37326	13.66898	0.2137462	2.6618480643870
(594177)	17.3	77.52864	38.09818	213.42753	9.39485	0.2022979	2.5897263643871
(594178)	16.5	122.83357	315.11108	240.50946	12.00195	0.2399762	2.5619411643871
(594179)	18.0	157.11673	41.45542	131.25305	6.13489	0.1378383	2.5408192643872
(594180)	17.2	26.74013	260.36550	44.87342	16.11572	0.3378834	2.7705230643872
(594181)	17.0	263.38026	229.24416	199.73895	21.67044	0.0570890	2.5987512643873
(594182)	14.2	329.00019	293.13871	118.07121	16.80788	0.0642577	5.2169005643873
(594183)	18.0	119.45438	15.23569	180.01171	13.40740	0.1088984	2.5948486643873
(594184)	17.6	6.74345	221.13030	115.32319	13.34419	0.2171334	2.6341741643874
(594185)	13.7	285.35786	319.42626	150.72119	14.86237	0.0345913	5.1466739643874
(594186)	17.3	329.77246	258.85985	122.60800	15.69239	0.1519725	2.5315882643875
(594187)	18.1	10.57458	186.66458	142.38102	9.27704	0.0921143	2.5850764643875
(594188)	17.4	359.37501	105.37281	227.79156	11.39766	0.1893355	2.6483554643875
(594189)	17.8	68.31231	61.62989	208.65048	7.28765	0.0709148	2.5732348643875
(594190)	16.8	78.18051	141.64485	90.34115	13.94333	0.2039916	2.6477459643876
(594191)	17.8	13.22630	226.36541	105.43771	10.48870	0.1467349	2.6063499643876
(594192)	17.4	43.34701	121.76601	209.24139	6.82235	0.2095819	2.5202669643877
(594193)	18.4	248.29759	328.34157	113.14388	9.38623	0.0414443	2.5926488643877
(594194)	17.3	120.65003	319.63519	235.25743	12.27403	0.1539891	2.6028312643877
(594195)	17.7	8.79852	232.62950	86.91645	15.47045	0.1168336	2.6387973643878
(594196)	17.3	9.40269	261.54135	86.57275	13.90992	0.2314650	2.5883892643878
(594197)	17.8	96.21222	97.41769	138.10598	9.34215	0.1188525	2.5816145643878
(594198)	17.0	56.64429	244.05078	57.39385	12.89276	0.2073221	2.6147981643879
(594199)	17.6	45.95100	121.95646	163.80817	3.59850	0.1711759	2.7455721643879
(594200)	16.9	320.18173	115.09494	272.57059	12.00267	0.0604806	2.7489464643879
(594201)	17.5	48.28754	216.99265	84.59082	15.72760	0.1011027	2.5607242643880

(594202)	17.5	46.25539	102.87335	189.96402	14.28430	0.1434271	2.6183969643880
(594203)	17.7	162.60834	341.94099	172.29298	14.11372	0.0265005	2.6318547643880
(594204)	17.5	39.47984	63.92766	236.33680	3.20796	0.0813537	2.7585596643880
(594205)	17.1	42.36889	56.23896	254.31960	12.82535	0.2171899	2.6716150643881
(594206)	17.4	5.99432	60.45148	272.58376	6.76635	0.1575070	2.7721492643881
(594207)	17.6	19.71455	207.62350	122.96214	11.17134	0.2068166	2.7268579643881
(594208)	16.9	172.37538	79.54441	72.38761	13.20539	0.1020323	2.5627052643882
(594209)	18.2	43.87036	5.90907	283.35286	2.09026	0.1221858	2.6176930643882
(594210)	18.0	54.01414	174.84152	107.48896	5.21550	0.1293289	2.5942946643882
(594211)	17.9	151.65202	352.01157	171.39413	3.50345	0.1801497	2.5806720643883
(594212)	16.7	179.71647	258.74508	252.02871	21.66625	0.1402758	2.5439748643883
(594213)	17.2	77.48966	31.95338	223.46437	17.36972	0.1537456	2.6062574643883
(594214)	16.6	155.50874	319.38421	222.11667	8.16449	0.1564304	2.5302189643884
(594215)	16.8	65.80605	11.46442	244.46550	12.11308	0.2410085	2.6500304643884
(594216)	17.5	19.02288	196.26747	132.99374	6.69096	0.1063666	2.7379558643884
(594217)	17.5	51.47456	341.94529	284.51902	6.82891	0.1797570	2.7993859643885
(594218)	17.0	184.23978	325.38070	191.80942	29.56233	0.1219160	2.5649509643885
(594219)	17.6	113.17698	165.94739	112.57400	9.36714	0.0522736	2.4842368643885
(594220)	17.1	349.22029	262.59750	123.35439	5.38173	0.2409862	2.6813087643886
(594221)	17.6	353.75683	279.63951	93.90898	13.75377	0.2219247	2.7436511643886
(594222)	17.9	35.15594	67.13302	239.16305	4.99664	0.2036726	2.7222128643886
(594223)	17.2	39.64953	229.77711	85.30283	7.40903	0.0390855	2.7082375643887
(594224)	17.5	54.88462	174.83837	105.60778	10.94816	0.2180694	2.5923938643887
(594225)	16.9	49.33647	171.00252	144.59971	33.50788	0.1553945	2.6143339643887
(594226)	16.6	218.84620	231.92552	266.73810	11.63234	0.1155115	2.6637803643888
(594227)	17.8	21.80711	90.37532	236.27681	11.71710	0.2251591	2.7272767643888
(594228)	17.1	345.33720	131.55934	266.05184	8.64879	0.2850009	2.7464368643888
(594229)	17.2	350.33232	326.92429	36.63587	4.81049	0.2537526	2.8426409643889
(594230)	17.3	22.45486	257.80163	79.63742	5.98893	0.1656826	2.7513241643889
(594231)	17.4	279.26261	201.54810	238.83813	5.03306	0.0453079	2.6511649643889
(594232)	17.6	342.95907	253.34314	164.11464	2.28549	0.0939441	2.5293620643889
(594233)	17.6	39.52754	52.70482	252.37966	5.58497	0.0324322	2.7220108643890
(594234)	18.0	16.87611	113.11276	211.82037	4.04061	0.1640698	2.7580699643890
(594235)	17.6	356.43705	191.11506	163.71741	8.00935	0.0580697	2.7132332643890
(594236)	17.1	359.47860	191.82426	161.42375	4.88525	0.0911329	2.7693532643891
(594237)	19.0	321.52015	187.65359	185.37778	22.40261	0.0732678	1.8251286643891
(594238)	17.3	71.13395	5.00563	247.97117	12.79643	0.1517510	2.7970508643891
(594239)	17.8	328.17367	224.06964	147.87135	5.29726	0.0864754	2.7707160643892
(594240)	17.1	306.29214	148.06729	267.30727	4.05461	0.1645208	2.7845235643892
(594241)	17.8	22.24493	165.70757	158.31933	4.59828	0.0619791	2.7657429643892
(594242)	17.5	51.07948	174.09402	149.73708	10.21688	0.1499149	2.6851731643892
(594243)	17.1	315.86709	210.77975	222.63707	14.42105	0.0829934	2.6001108643893
(594244)	17.2	24.05398	184.80311	137.84250	13.64237	0.1692107	2.7081057643893
(594245)	17.4	302.68238	280.23664	132.24556	9.89302	0.1668003	2.7971254643893
(594246)	16.9	228.90469	179.42265	333.45142	18.85447	0.1010757	2.5947081643894
(594247)	17.4	10.37331	242.44545	105.42230	8.93272	0.2433984	2.7767220643894
(594248)	16.2	39.75262	51.36065	272.68800	15.71862	0.1251294	2.8524175643894
(594249)	17.7	26.55964	86.03476	231.66915	3.51640	0.0596975	2.7789821643894
(594250)	18.1	60.65952	121.46280	131.98686	8.95358	0.1637715	2.7820988643895
(594251)	17.3	349.66650	65.80142	323.78074	11.52123	0.1854297	2.6955149643895
(594252)	17.6	357.67706	216.82484	122.01528	7.40507	0.0508054	2.7626063643895
(594253)	17.4	15.54399	184.71636	134.34849	13.78382	0.1701641	2.6718584643895
(594254)	17.7	39.41566	55.82578	250.62853	12.36697	0.1676138	2.5949775643896
(594255)	17.7	335.22933	270.15340	161.59255	6.36522	0.1511399	2.6613887643896
(594256)	17.3	259.47001	284.92585	137.21792	12.77262	0.0292139	2.9390642643896
(594257)	16.8	0.37832	153.48313	232.76254	14.15198	0.1142902	2.5877872643896
(594258)	17.1	334.58915	236.95811	121.96531	15.32215	0.1923135	2.9326843643897
(594259)	17.5	52.38697	151.75583	150.96641	4.30629	0.2014722	2.6534052643897
(594260)	17.7	355.91794	192.24517	104.08566	7.84799	0.2113187	2.9361993643897
(594261)	16.4	25.98129	313.27315	11.64380	3.78984	0.1635417	3.0268727643898
(594262)	16.7	43.17390	268.67978	12.37623	28.56862	0.3912966	2.7828306643898
(594263)	17.0	223.63703	105.59715	337.75402	15.74570	0.1377298	3.0492739643898
(594264)	17.8	24.24076	214.22080	102.84012	5.43980	0.0630551	2.7846490643898
(594265)	17.0	359.99463	220.05300	137.79887	29.56550	0.2321874	2.6194952643899
(594266)	17.4	2.28049	246.65763	123.74150	4.73841	0.0908487	2.7168364643899
(594267)	17.7	17.67082	208.85520	126.90485	7.15879	0.0652735	2.6731525643899
(594268)	17.9	7.20821	218.75007	117.52806	7.25456	0.0252239	2.7022332643900
(594269)	17.7	286.39638	74.35286	350.76971	4.59267	0.1554830	2.7488715643900
(594270)	17.0	278.44767	120.31481	316.90934	21.62774	0.0434874	2.6712048643900
(594271)	17.5	215.33980	132.57271	351.53252	7.34382	0.1663326	2.7670544643900
(594272)	17.7	234.50388	17.74077	107.25970	8.86419	0.2088207	2.6777875643901
(594273)	17.7	45.02489	208.92775	81.11838	5.55564	0.0321476	2.7825464643901
(594274)	17.5	236.66183	60.68172	51.56033	4.96794	0.0244099	2.7580173643901
(594275)	17.8	326.34239	8.28918	71.74577	5.14359	0.2065411	2.5954065643901
(594276)	17.5	332.71459	308.79103	97.93502	9.01373	0.2159687	2.7204943643902
(594277)	17.2	346.25082	34.80306	12.89704	12.05583	0.0607336	2.5755106643902
(594278)	17.2	15.57067	173.91938	95.09071	11.98840	0.2102145	3.0044113643902
(594279)	17.0	321.95691	302.74586	66.26659	12.06314	0.1098531	2.9248789643902
(594280)	17.1	122.69810	219.72798	37.97567	9.20116	0.1673235	2.5246369643903
(594281)	17.2	27.18021	248.96925	78.94904	7.95490	0.1891750	2.7248665643903
(594282)	17.1	59.63086	241.68853	85.69384	10.06214	0.1222844	2.5617352643903
(594283)	16.8	301.45569	339.67970	88.71882	13.79857	0.1599627	2.6959267643904
(594284)	17.3	261.05900	93.76562	353.34723	14.13564	0.1316905	2.7945415643904
(594285)	16.9	71.00924	149.55273	113.31349	10.16780	0.2266348	2.7559692643904
(594286)	17.2	260.04155	357.41794	143.06705	33.93377	0.1522402	2.6141970643905
(594287)	15.4	136.17541	296.80827	275.72360	21.07130	0.2068666	3.1372006643905
(594288)	17.3	23.95942	183.90035	170.96488	8.63293	0.2303009	2.7737818643906
(594289)	17.0	339.07086	50.11664	321.33485	8.73638	0.1608415	2.9083623643906
(594290)	17.4	12.24275	72.69504	302.08434	4.63179	0.0267732	2.7612583643906
(594291)	17.6	42.31709	91.48780	207.96366	11.28027	0.1748264	2.8988427643907
(594292)	17.7	336.15632	239.57659	105.27740	3.28176	0.0816303	2.8799976643907
(594293)	16.7	186.04247	91.18381	21.49565	9.17546	0.0431651	3.1885550643907
(594294)	17.2	43.32766	255.07003	51.52095	13.93194	0.2187667	2.6762318643907
(594295)	17.1	338.12316	332.54644	92.14602	13.14013	0.1479530	2.6444850643908
(594296)	17.0	314.42837	290.13529	73.68435	12.31222	0.2036839	3.0098076643908
(594297)	17.7	305.17667	38.02731	0.82130	5.77650	0.0178565	2.7825682643908
(594298)	16.5	124.28561	202.11552	355.76251	16.04242	0.2138076	2.9035812643909
(594299)	16.7	348.37806	10.47439	9.66644	20.78316	0.1719155	2.8695027643909
(594300)	17.2	353.61782	6.69203	0.52629	1.67261	0.0814415	2.8972744643909
(594301)	17.5	38.00594	70.41346	187.46476	1.56055	0.0757907	3.0001033643910
(594302)	17.2	72.04079	217.96772	78.02591	14.44483	0.1913626	2.7134452643910
(594303)	16.6	211.05377	339.87117	119.09850	16.17636	0.1230540	3.1696027643910
(594304)	16.9	6.44871	153.19766	200.29419	15.05399	0.2634637	2.9781333643910
(594305)	16.7	315.54018	259.60124	105.56348	9.95951	0.1740800	3.1574667643911

(594306)	17.1	251.12942	12.30353	79.23261	14.64149	0.2549943	3.0613020643911
(594307)	17.4	56.82256	208.00634	32.63612	9.08098	0.0077324	3.0400736643911
(594308)	17.1	342.54734	217.95638	135.73697	10.54693	0.1597200	3.0373112643911
(594309)	16.9	334.19239	240.79987	134.32966	15.59131	0.1581176	2.8628605643912
(594310)	17.1	321.62885	324.39613	42.20391	9.95267	0.1354822	2.9923862643912
(594311)	19.8	256.43560	275.37473	150.71263	23.43562	0.1528435	1.8454408643912
(594312)	16.9	359.70403	209.45665	172.39506	6.42841	0.0421142	2.6894732643912
(594313)	16.2	278.72591	190.87532	258.95995	12.08201	0.1478652	2.7884066643913
(594314)	17.1	287.32475	207.37885	215.75097	5.86795	0.1427496	2.8913594643913
(594315)	17.3	13.32140	102.37759	236.92422	5.15669	0.0687181	2.7956080643914
(594316)	17.0	208.09381	243.70587	255.85904	9.17957	0.0409134	2.8360751643914
(594317)	17.0	8.87935	230.21727	137.84364	5.62734	0.1255523	2.7137420643914
(594318)	17.3	305.86103	330.82004	84.02769	6.04965	0.0263918	2.7764244643915
(594319)	17.5	325.02812	317.22973	121.41705	8.46143	0.1186503	2.6307048643915
(594320)	17.1	244.37273	152.92522	318.14808	3.37063	0.0211311	2.7697191643915
(594321)	17.2	40.12485	98.21687	198.28277	3.81595	0.1876165	2.8036447643915
(594322)	17.0	44.57363	154.46932	163.34519	25.80380	0.0574538	2.7242679643916
(594323)	17.3	28.84880	173.43680	177.51650	9.74361	0.1912999	2.7451770643916
(594324)	17.3	355.97724	213.71598	132.73508	11.65307	0.2403872	2.9176237643916
(594325)	17.3	42.19765	16.92789	253.73490	6.29491	0.0782888	2.9786790643917
(594326)	17.1	32.38580	319.84795	354.76814	13.35404	0.2317896	2.7702292643917
(594327)	17.4	108.86588	271.48509	329.11827	4.35025	0.1131564	2.7312864643917
(594328)	17.4	326.16898	191.10240	199.16086	0.97372	0.0729689	2.7934052643917
(594329)	17.9	139.62272	63.71772	272.90576	10.57009	0.0558553	2.2962688643918
(594330)	16.9	37.74077	168.53636	161.90156	3.59268	0.0971191	2.7772411643918
(594331)	16.8	338.71552	158.25664	217.42661	6.80563	0.2408878	3.0169416643918
(594332)	17.6	60.49950	61.27654	242.41098	12.15681	0.2633785	2.6850862643919
(594333)	16.8	21.43260	50.15239	264.48229	13.95591	0.1467153	2.8727583643919
(594334)	16.4	84.52663	346.92581	276.16979	14.26584	0.2609983	2.7138266643920
(594335)	17.1	344.60165	318.69995	354.66816	8.68953	0.0747509	3.0535945643920
(594336)	16.7	121.19194	306.48564	293.17698	12.28492	0.0392651	2.6708033643920
(594337)	7.9	0.07660	303.15262	102.81616	16.98853	0.798085417	4.5765541643921
(594338)	16.8	342.58742	276.48246	81.01166	5.96380	0.1705355	3.0572336643921
(594339)	17.5	295.23515	165.46875	295.30751	6.00394	0.0369036	2.6888651643921
(594340)	16.9	322.27384	67.30445	4.20482	24.72647	0.2050450	2.7404342643921
(594341)	16.3	322.74806	20.96539	312.15804	9.22017	0.0344868	3.2248535643922
(594342)	16.9	78.14464	121.31798	132.23060	11.44370	0.0605541	2.9948108643922
(594343)	19.9	353.71457	18.63592	313.16624	18.38925	0.0817595	1.8267111643922
(594344)	17.0	292.42953	164.47814	281.91207	11.58626	0.0714085	2.7029247643922
(594345)	16.7	348.08466	177.24921	200.64101	15.01705	0.1446860	2.8659934643923
(594346)	16.3	284.49717	88.30175	315.46662	9.81398	0.0875222	3.1301749643923
(594347)	17.9	357.94994	155.01828	192.84882	3.61392	0.1207260	2.8063744643923
(594348)	17.1	21.56324	95.47282	236.53672	18.38985	0.2804923	2.7905038643924
(594349)	17.2	32.28232	303.14812	6.38318	9.07001	0.2124007	2.8081092643924
(594350)	16.9	289.78123	61.33081	4.70515	12.06730	0.1433876	2.9222726643924
(594351)	16.9	17.27580	160.56462	132.97515	2.13764	0.1219329	3.0404635643925
(594352)	17.0	292.49846	63.38451	3.89460	10.50903	0.1335685	2.8937547643925
(594353)	16.9	281.62866	101.48489	289.00915	8.34470	0.0508499	3.1557129643926
(594354)	19.2	285.56916	65.86810	351.35136	24.55791	0.0773296	1.8405029643926
(594355)	18.3	250.49131	270.71646	184.67771	21.69744	0.0860830	1.8941171643926
(594356)	17.4	353.22146	125.78073	206.96519	9.77945	0.0885279	3.0521326643927
(594357)	18.4	319.68195	92.34974	250.21533	19.48675	0.0932831	1.9185689643927
(594358)	16.6	41.32024	46.15068	281.44144	12.07418	0.0945931	2.7561494643927
(594359)	17.1	19.75765	91.91694	244.38751	3.87642	0.1688353	2.8068330643928
(594360)	18.5	258.25858	196.10178	186.42666	22.20915	0.0816364	1.9419049643928
(594361)	17.4	310.81100	116.02543	306.31127	0.81480	0.2220362	2.8962021643928
(594362)	16.6	163.45874	322.86843	183.17201	11.30203	0.0730218	3.2693793643928
(594363)	16.7	339.62859	277.77907	47.47431	12.72675	0.1656983	3.0571477643929
(594364)	18.4	167.72934	311.45003	181.57639	21.78795	0.0736681	1.9112630643929
(594365)	16.8	3.98039	322.85941	68.05558	7.65846	0.0781761	2.7586273643929
(594366)	16.4	31.19711	193.77050	128.20293	3.04342	0.0656698	2.8696285643930
(594367)	17.2	55.82433	167.89907	101.75788	8.62322	0.1588468	3.0675202643930
(594368)	16.3	324.25937	15.93474	7.48891	19.06000	0.1761126	3.0473041643931
(594369)	17.7	316.35575	238.94597	140.70948	1.77136	0.1694682	3.0392038643931
(594370)	17.2	82.00509	290.95211	355.81970	3.38813	0.0718938	2.7877336643931
(594371)	17.1	337.11007	229.89921	138.02532	12.00467	0.1565766	3.0360959643932
(594372)	17.1	344.82872	265.10664	70.51321	6.91128	0.1692083	3.0477903643932
(594373)	16.6	298.35485	82.07923	353.95913	11.23825	0.0986479	2.8163967643932
(594374)	16.9	38.27335	221.44563	107.60603	7.74307	0.2176258	2.7842586643933
(594375)	16.0	276.43949	49.00376	35.56391	22.75859	0.2110694	3.1370565643933
(594376)	18.5	99.73520	294.22538	289.36016	16.35842	0.0655350	1.8587197643933
(594377)	17.1	290.56945	272.84903	148.25951	9.89246	0.0926586	2.9986760643934
(594378)	15.8	57.93190	2.59400	302.07605	16.85009	0.1200490	2.8866720643934
(594379)	16.9	336.48031	353.94455	357.73157	8.38468	0.0414104	3.1089468643934
(594380)	16.8	310.51057	149.24222	289.41946	11.37405	0.1186444	2.7685495643935
(594381)	17.3	308.59979	246.47076	215.71270	10.91276	0.0861243	2.6431514643935
(594382)	16.9	222.97008	138.05886	323.58827	6.05129	0.0530523	3.1661509643935
(594383)	17.2	10.10097	124.40788	202.22826	4.86777	0.1680835	2.9745782643935
(594384)	17.1	358.00329	164.40028	194.22455	9.51827	0.0836525	2.9401369643936
(594385)	17.4	319.95783	204.74308	169.48057	1.23514	0.1642612	3.0811509643936
(594386)	17.0	27.95989	284.94524	87.86226	7.41207	0.0616189	2.7838544643936
(594387)	16.8	21.14374	126.64621	217.14688	9.89492	0.1157414	2.9690999643937
(594388)	16.9	9.38458	299.14299	43.07401	8.56491	0.0832191	3.0786258643937
(594389)	16.0	202.62126	155.86736	14.78274	16.30928	0.1475977	3.0432327643937
(594390)	17.8	212.96210	259.61531	243.30342	18.51887	0.1400796	1.8422773643938
(594391)	16.5	296.01602	76.95897	322.66415	10.34333	0.1195191	3.1321511643938
(594392)	17.3	307.96019	18.91229	20.46664	8.99221	0.0961624	3.0220611643939
(594393)	16.9	239.95791	96.07054	8.12071	16.43615	0.0133947	3.0574306643939
(594394)	18.8	354.00726	312.64961	28.39958	22.37068	0.0790216	1.8337166643939
(594395)	16.9	332.42439	84.79755	303.06959	9.20585	0.1060583	2.9326608643939
(594396)	17.1	322.80389	195.84504	249.09081	7.67126	0.2367177	2.8069804643940
(594397)	17.1	345.62580	112.05160	298.81996	5.53264	0.0482956	2.7697561643940
(594398)	17.3	37.58644	31.87471	320.99006	4.49770	0.0641264	2.7676408643940
(594399)	16.0	183.63321	309.53373	218.25950	26.67873	0.1947801	3.0882673643941
(594400)	17.5	23.33060	16.43364	344.72985	6.77873	0.1017021	2.7917568643941
(594401)	16.6	238.16979	72.73247	43.49405	11.26866	0.0757736	3.1247795643941
(594402)	18.2	204.50649	206.17745	274.07499	19.05342	0.0483864	1.8716562643942
(594403)	16.2	331.77965	48.21252	346.29868	14.63541	0.2366339	3.0039093643942
(594404)	17.5	348.68545	135.94891	266.95389	5.94432	0.1349130	2.7824664643943
(594405)	16.6	2.70551	256.16539	67.04020	16.23585	0.2464500	3.1169100643943
(594406)	16.6	270.34329	26.03715	35.83647	10.65602	0.1463169	3.2138424643943
(594407)	16.9	349.47951	220.57144	167.66270	5.41692	0.1276978	2.9378532643943
(594408)	16.4	344.62741	23.13356	294.05193	8.38361	0.0345136	3.4149252643944
(594409)	18.5	65.02665	269.20383	5.03108	20.74810	0.0409178	1.8446117643944

(594410)	16.8	294.64875	51.98085	5.82589	9.12524	0.1447983	3.0449072643944
(594411)	17.0	325.08308	255.10624	121.73546	9.02801	0.0183471	3.0410238643945
(594412)	17.0	217.91177	264.92561	241.55269	9.21829	0.0578117	2.9732758643945
(594413)	17.0	285.36433	103.31182	338.23304	11.79179	0.0081570	2.9217482643945
(594414)	16.7	12.00225	39.18359	289.00310	7.16480	0.1317229	3.0799284643945
(594415)	17.2	37.01470	286.11362	70.33650	9.17503	0.0831349	2.7363635643946
(594416)	19.0	31.88134	274.89174	35.09411	22.59399	0.0508512	1.8496659643946
(594417)	17.3	310.97115	75.57010	331.66235	11.56911	0.2951610	3.0115571643946
(594418)	18.9	26.76871	94.42852	205.78707	20.94523	0.0340045	1.8357932643947
(594419)	16.8	314.15278	95.39911	304.78881	9.66434	0.1040197	3.0032256643947
(594420)	16.5	356.79080	45.85962	299.02741	8.45560	0.1131552	3.0392313643947
(594421)	16.6	199.29694	272.18360	246.52037	7.70725	0.2260701	3.0988016643948
(594422)	16.8	208.87272	124.18085	14.63837	10.63927	0.0406609	3.1281690643948
(594423)	17.2	230.98612	93.02697	14.54399	4.85181	0.1104017	3.2488099643948
(594424)	16.5	25.51684	106.03140	222.41938	8.96171	0.0175189	3.1386739643949
(594425)	17.0	46.33257	49.74029	241.18362	7.48268	0.1539148	3.0168344643949
(594426)	16.9	319.43238	316.09197	70.08483	15.16976	0.0651178	3.1016233643949
(594427)	16.8	93.94494	218.64431	79.00351	10.67654	0.1139520	2.7708063643950
(594428)	17.1	340.34752	353.38120	357.10175	6.62006	0.1705494	3.0563624643950
(594429)	16.9	331.71738	170.44164	209.35195	9.65248	0.0954881	3.0478382643950
(594430)	17.3	297.97135	33.16421	35.89945	9.84678	0.0457935	2.9596312643951
(594431)	17.1	15.09056	120.10918	206.08001	9.01231	0.1809164	3.0169950643951
(594432)	16.4	56.45494	65.89624	203.85015	8.93515	0.1886549	3.0982573643952
(594433)	17.3	265.23271	134.91797	41.38610	5.26132	0.0595809	2.6129811643952
(594434)	16.9	106.28557	19.69260	221.30837	12.71089	0.0411390	3.0692469643953
(594435)	17.1	245.73835	258.80690	217.72830	12.32771	0.1262403	3.0734249643953
(594436)	16.8	40.20061	83.44509	204.76328	8.43816	0.0797484	3.1555437643954
(594437)	17.3	25.31417	283.95885	17.67017	5.09666	0.1350796	3.0963727643954
(594438)	16.8	146.01492	322.02043	226.97417	6.32160	0.0980606	3.1848043643954
(594439)	17.1	315.37381	309.69959	52.60267	2.94541	0.0560842	3.2597284643955
(594440)	16.9	271.36356	293.73645	178.24762	5.03978	0.0200067	2.9244059643955
(594441)	16.8	348.66477	270.83656	117.55842	14.58091	0.2023219	2.9120293643956
(594442)	16.8	5.59365	126.81233	193.23819	21.64633	0.0585576	3.0740198643956
(594443)	16.2	171.70909	300.19516	287.40174	12.13903	0.0741934	2.8039783643956
(594444)	16.1	239.67656	248.36417	242.10637	14.75219	0.2443918	3.1238475643957
(594445)	17.2	313.56496	49.69037	0.90146	10.33669	0.0448321	2.9702696643957
(594446)	16.7	309.15066	164.29283	241.98232	8.70272	0.0547262	3.0906947643957
(594447)	18.4	214.63878	97.69948	26.28180	21.79352	0.1040080	1.9081944643957
(594448)	18.3	128.42900	303.89138	254.94516	18.85370	0.0499539	1.8937910643958
(594449)	16.1	290.87421	193.93471	280.47134	11.27585	0.0886414	3.1731437643958
(594450)	17.2	301.81724	146.66320	298.21947	9.63706	0.1183296	2.9380553643958
(594451)	16.8	288.30073	328.99449	116.17815	10.84931	0.0633318	3.0182099643959
(594452)	16.4	144.91147	286.31080	287.29232	16.96707	0.0430395	3.0910850643959
(594453)	16.8	321.93600	357.96945	71.09760	12.63672	0.1342634	2.9910546643959
(594454)	16.4	320.65550	27.84133	26.07272	12.74320	0.1761438	3.2209019643959
(594455)	16.9	303.90766	200.89160	259.11747	10.68091	0.0888021	3.1779549643960
(594456)	17.7	90.34739	32.50317	30.47762	15.64120	0.1119858	2.5443307643960
(594457)	18.2	214.71951	242.98222	251.57427	19.62543	0.0879803	1.8789085643960
(594458)	18.2	227.07064	103.83846	28.65132	22.70549	0.1056802	1.8581440643960
(594459)	17.9	170.88279	273.17586	266.43315	17.76776	0.0630562	1.8751413643961
(594460)	18.5	324.05394	272.07459	94.35627	24.53789	0.0778043	1.8850020643961
(594461)	16.8	262.33738	243.75946	227.39257	10.59215	0.0740695	3.0705078643962
(594462)	16.7	327.77791	134.20905	240.49694	9.05377	0.1776732	3.1667427643962
(594463)	18.9	182.46307	316.89971	207.61265	20.53855	0.0628917	1.8901685643962
(594464)	18.3	356.25409	130.56187	207.79550	20.60058	0.0920803	1.9000033643962
(594465)	16.8	320.54337	192.23614	213.01371	8.91035	0.1407620	3.0407118643963
(594466)	16.4	233.27704	117.19997	14.05565	21.64555	0.1227082	3.1066445643963
(594467)	16.0	80.15840	175.50717	102.57863	13.00916	0.1135890	3.0647105643963
(594468)	16.6	296.02153	43.92102	26.40467	8.60992	0.0506818	3.0211324643964
(594469)	16.7	304.51500	36.39232	9.15198	26.75474	0.0471439	3.1410435643964
(594470)	16.7	22.12189	181.02708	152.04645	9.32612	0.0688463	3.1189240643964
(594471)	16.3	237.62524	287.90107	214.57349	15.20510	0.1845147	3.1468130643965
(594472)	16.6	243.77853	266.45351	215.54545	14.96517	0.0377043	3.1400688643965
(594473)	16.8	347.07315	123.65752	240.03632	10.18440	0.0962628	3.1516002643965
(594474)	16.4	192.34408	126.42296	51.23868	13.35432	0.1132014	3.1523748643966
(594475)	16.7	266.97541	41.37630	74.83173	15.04018	0.1754169	3.0803040643966
(594476)	18.1	19.77355	155.90476	258.79847	0.88258	0.0582037	2.7188175643966
(594477)	16.5	270.55034	19.96279	85.09536	19.24282	0.0452192	3.0883416643966
(594478)	16.7	253.25507	215.62622	244.24186	14.79314	0.1089095	3.1068747643966
(594479)	16.6	326.97732	5.80567	61.09153	11.98955	0.1680951	2.9010508643967
(594480)	16.6	262.36879	42.21310	55.72571	14.16195	0.1980020	3.2010189643967
(594481)	16.1	315.57819	118.98423	305.12451	7.60287	0.0656960	2.9983177643968
(594482)	16.5	236.66048	249.19180	247.41206	8.50257	0.0459824	3.1508745643968
(594483)	16.0	35.30386	295.96266	9.00817	16.07437	0.1206009	3.0464437643968
(594484)	16.4	248.28703	162.05180	299.06116	9.77875	0.0281525	3.1225428643969
(594485)	16.1	334.92700	343.70398	63.92588	10.79136	0.0700382	2.9920786643969
(594486)	15.8	292.29492	177.55689	281.16946	13.46860	0.1122743	3.1631275643970
(594487)	17.2	329.98274	134.23431	294.43475	6.27826	0.0594642	2.9074833643970
(594488)	15.8	357.18202	284.06803	91.53599	15.49389	0.2129866	3.1757564643970
(594489)	17.9	315.76026	316.00674	74.01537	23.82008	0.0911512	1.9004618643971
(594490)	16.2	306.76937	310.43230	135.33740	11.01729	0.1943660	3.1539961643971
(594491)	16.5	338.03574	340.13694	71.85016	16.03989	0.0374392	3.2000869643971
(594492)	15.4	342.42980	312.20132	105.10573	10.91790	0.0559214	3.0844722643972
(594493)	19.4	270.77034	274.75721	152.38290	24.09386	0.0769961	1.9103581643972
(594494)	14.2	328.91152	150.70409	148.39335	38.42945	0.0615506	5.1279618643973
(594495)	18.2	320.19374	294.38326	106.27451	24.56183	0.1065319	1.9087793643973
(594496)	18.4	334.26067	91.31353	277.62690	19.71109	0.1423123	1.9434472643973
(594497)	16.2	13.96143	290.22151	95.58724	12.33707	0.1241420	3.0439894643974
(594498)	17.2	300.37326	271.75564	156.65618	14.47546	0.2215818	3.1461789643974
(594499)	18.0	92.73532	313.97848	302.11641	17.15702	0.0513562	1.9492866643974
(594500)	15.6	293.73791	329.88431	114.80641	14.96445	0.1631256	3.2420861643974
(594501)	16.5	343.32896	302.18232	101.51940	9.20443	0.1681828	3.1854110643975
(594502)	16.6	275.93118	337.21203	121.32575	14.19846	0.0746765	3.3829105643975
(594503)	16.2	320.20229	323.62757	108.24144	10.02565	0.1819240	3.1783271643976
(594504)	16.6	312.95955	344.92843	95.89050	2.34345	0.1146391	3.2433671643976
(594505)	16.4	338.26646	267.62458	140.69706	11.62178	0.1000069	3.1821204643976
(594506)	17.1	357.42819	51.34752	348.02354	9.27168	0.0857038	3.1685067643977
(594507)	16.5	320.31936	307.95737	136.17060	11.67724	0.1212001	3.1021144643977
(594508)	16.3	264.96872	263.65560	260.44078	11.92504	0.2523574	3.1707154643977
(594509)	17.1	336.92602	241.56376	193.78481	6.88436	0.2626273	3.0550176643977
(594510)	17.9	94.01514	245.41823	1.38121	18.50758	0.0582768	1.9935511643978
(594511)	16.5	318.91539	184.51447	252.21059	15.46279	0.1516143	3.1858410643978
(594512)	16.4	330.31208	175.16814	257.30824	16.87071	0.0698643	3.2334728643978
(594513)	16.8	329.32028	325.63444	90.94642	11.69675	0.1959598	3.1517894643979

(594514)	16.5	309.74797	274.28742	178.73704	15.36299	0.1675418	3.2100461643979
(594515)	16.3	353.79207	24.66029	14.95747	16.18959	0.0695266	3.1683072643979
(594516)	16.2	354.66477	302.40933	103.11479	13.96660	0.2609668	3.1127206643980
(594517)	16.9	331.00618	275.55451	145.32363	4.78211	0.1898494	3.1358696643980
(594518)	19.0	11.58921	349.76853	341.92629	19.85046	0.0323011	1.9801965643980
(594519)	18.3	39.17971	324.20537	339.03045	18.46660	0.0619223	1.9687576643980
(594520)	17.8	37.36591	16.96244	286.65762	17.07579	0.0617281	1.9682241643981
(594521)	18.4	289.45545	258.81216	177.18670	21.21761	0.0957543	1.9241703643981
(594522)	15.8	321.12464	323.09162	97.92904	28.73415	0.1683624	3.2141418643981
(594523)	17.2	353.72201	47.21605	355.74805	5.08676	0.1856360	3.1738743643982
(594524)	15.8	86.19544	337.68046	307.93905	8.64144	0.0475375	3.5579808643982
(594525)	17.9	274.49263	119.33620	101.28167	4.74895	0.0371902	2.7582031643982
(594526)	17.0	327.38517	91.99105	348.03188	9.47463	0.2050457	3.1441137643983
(594527)	15.9	247.27619	109.82253	71.19267	27.66255	0.2344615	3.1594880643983
(594528)	16.7	327.07156	262.62458	171.30888	9.90905	0.2249377	3.1587527643983
(594529)	16.8	320.53733	226.14771	223.13241	1.26784	0.1521865	3.1573130643984
(594530)	18.8	319.51799	32.73169	2.32283	18.75169	0.0929036	1.9824886643984
(594531)	18.4	295.14234	75.56236	12.38197	20.52711	0.0738265	1.9770579643984
(594532)	15.8	352.26343	263.75387	134.52214	25.41743	0.2891433	3.1855542643984
(594533)	18.9	97.69744	255.76177	298.69499	5.46737	0.0734535	2.2042791643985
(594534)	15.9	251.15880	338.52405	193.93734	9.51805	0.1337088	3.1095880643985
(594535)	16.2	276.38012	104.66678	30.84806	17.13327	0.1534614	3.1755516643986
(594536)	17.1	211.50843	21.80110	218.14357	9.19335	0.0819991	3.1068731643986
(594537)	18.5	12.34282	66.29015	226.03384	3.80357	0.1889755	2.2551242643986
(594538)	16.3	289.52437	115.76769	25.08282	26.65189	0.2403315	3.1968752643986
(594539)	17.8	267.29820	199.76097	249.85997	16.63603	0.0317663	2.0104534643987
(594540)	18.8	21.93662	31.66921	157.63762	0.59071	0.1435521	2.4898316643987
(594541)	18.4	220.91996	134.83251	4.01994	20.23206	0.0765005	1.9203583643987
(594542)	16.4	321.19344	87.47079	50.12485	8.68867	0.0972172	3.0750050643988
(594543)	15.4	331.40888	10.26590	33.24405	28.44669	0.1616073	3.1551391643988
(594544)	18.8	271.24101	102.47620	7.20943	19.02192	0.1050922	1.9666088643988
(594545)	18.5	43.59362	272.01888	354.56702	6.30391	0.2846980	2.2730290643989
(594546)	18.9	83.53482	104.01308	122.35545	5.04174	0.1103553	2.2016131643989
(594547)	18.8	229.93208	306.51436	193.65172	22.31304	0.0682416	1.9667145643989
(594548)	18.1	101.53951	180.51635	38.53580	4.22405	0.1436713	2.1778480643990
(594549)	18.7	281.21069	73.82296	29.69966	21.57895	0.0905974	1.9315340643990
(594550)	18.8	64.94632	308.64814	317.17528	2.81316	0.1703037	2.1563076643990
(594551)	18.2	253.05647	6.87851	109.28927	24.96631	0.0770363	1.9598177643991
(594552)	18.4	63.15315	185.46545	70.25617	4.35781	0.1444313	2.2215297643991
(594553)	18.2	36.34234	241.64328	58.94548	4.23539	0.2428538	2.1859640643991
(594554)	17.9	274.82759	46.51823	31.54786	21.05018	0.1071307	2.0256850643991
(594555)	18.6	106.37114	156.10798	49.34623	5.25903	0.1066412	2.2194826643992
(594556)	19.0	90.83482	142.48852	84.02362	5.04942	0.1223750	2.2151158643992
(594557)	17.9	92.35597	113.36438	98.01928	6.71210	0.0881684	2.2681694643992
(594558)	18.4	52.16310	54.71097	194.70690	6.25843	0.0590291	2.2697710643993
(594559)	18.2	30.30392	110.23139	175.42172	3.33149	0.2510375	2.3388362643993
(594560)	18.8	190.33902	208.62483	288.68782	1.59074	0.0841510	2.1708313643994
(594561)	18.2	20.94519	274.78986	48.22741	8.85896	0.2483837	2.2634934643994
(594562)	17.8	32.42376	243.36506	71.66367	12.14627	0.2070625	2.2314697643994
(594563)	13.6	188.90545	359.72423	186.86565	21.19644	0.0335453	5.2968240643994
(594564)	17.9	358.29742	256.04856	97.55965	4.24568	0.2104111	2.3693792643995
(594565)	18.6	71.04919	123.37349	126.36861	7.42019	0.1203477	2.3860994643995
(594566)	18.6	90.03533	108.13639	121.10877	13.65972	0.1771912	2.3577875643996
(594567)	18.0	353.90477	51.04292	300.62977	5.55485	0.1545416	2.4058624643996
(594568)	18.0	38.21177	353.29593	303.76437	5.97519	0.2192563	2.3358070643996
(594569)	17.6	43.54968	250.42059	55.28055	9.58401	0.1494911	2.2857875643997
(594570)	17.9	182.42083	238.12719	299.66799	4.01272	0.1018696	2.3077510643997
(594571)	18.4	38.12390	161.33279	134.75665	2.04257	0.1850966	2.3864906643997
(594572)	18.3	79.97120	84.03493	161.25112	4.46444	0.1956255	2.3438998643997
(594573)	18.0	49.58842	353.80890	298.47282	8.45551	0.1205572	2.3267279643998
(594574)	18.4	9.22629	114.68250	233.28643	5.89986	0.1406567	2.3832187643998
(594575)	18.2	76.50074	352.64306	266.36678	4.24815	0.2127589	2.3777271643998
(594576)	17.8	22.30566	19.86978	294.86991	5.56340	0.1511208	2.4492476643999
(594577)	18.1	93.85944	66.70725	125.33645	6.40050	0.1826806	2.5425007643999
(594578)	18.4	42.56436	162.98148	123.45663	3.71789	0.2137665	2.3804511643999
(594579)	18.2	276.45121	100.71076	300.49383	4.84011	0.1282075	2.6437638643999
(594580)	18.1	17.34647	204.42504	120.49663	6.60486	0.2384775	2.3660512644000
(594581)	17.8	237.05446	286.12652	163.13477	22.25945	0.0431784	2.5789593644000
(594582)	18.2	93.45527	82.22680	154.60213	2.97145	0.1441979	2.4212558644000
(594583)	18.6	5.37518	227.72760	140.88629	7.03467	0.2746694	2.3636288644001
(594584)	18.4	69.79413	80.01275	170.60974	1.08396	0.1583314	2.4695657644001
(594585)	17.9	106.84679	146.52142	96.15074	4.81002	0.0295314	2.4204204644001
(594586)	17.5	102.11998	272.19593	289.39935	4.11140	0.1784857	2.5585487644002
(594587)	17.7	7.96832	306.06799	36.79507	9.13448	0.0920781	2.5300805644002
(594588)	18.3	52.47422	329.51344	303.63187	4.52819	0.1876532	2.3928354644002
(594589)	18.1	357.70986	10.62628	341.64832	2.11532	0.2074824	2.4427055644003
(594590)	17.7	209.32066	292.87603	178.17102	4.40095	0.1254608	2.5546835644003
(594591)	16.7	25.05341	304.79078	224.00254	8.65813	0.0355951	3.2417411644003
(594592)	17.5	287.91437	103.27954	285.61657	7.53453	0.1201573	2.6539412644003
(594593)	17.9	8.68380	194.49358	139.64357	5.75721	0.2533256	2.4223133644004
(594594)	18.5	53.73196	1.34088	315.88516	5.94402	0.1511806	2.2931749644004
(594595)	18.3	76.68029	104.69223	154.43201	2.02804	0.1557066	2.3860454644004
(594596)	18.0	1.65997	336.56918	317.89155	4.78804	0.0653758	2.6421416644005
(594597)	17.4	40.90253	317.58702	322.04358	14.34582	0.2109990	2.4502786644005
(594598)	18.6	59.09307	119.09360	162.76204	6.60404	0.1051147	2.4014928644005
(594599)	18.7	83.38619	108.71593	144.75031	10.76856	0.1600460	2.3818295644006
(594600)	18.2	106.27647	109.46943	117.43156	3.48479	0.1277937	2.4368094644006
(594601)	17.8	277.29482	276.34972	123.27163	5.41489	0.0474677	2.6220185644006
(594602)	18.6	77.58165	264.64096	355.84703	8.37812	0.1824440	2.3858275644007
(594603)	17.7	229.13466	324.75304	152.64423	5.53460	0.1328652	2.4684917644007
(594604)	18.1	223.68474	338.49591	147.85914	5.78312	0.1450291	2.4445964644007
(594605)	18.6	111.66221	292.91476	298.15753	8.40653	0.0815328	2.3370059644007
(594606)	18.6	320.76928	68.67533	329.72120	1.52860	0.1954440	2.4151026644008
(594607)	17.7	293.67283	130.61883	270.21460	7.26323	0.1367014	2.6321485644008
(594608)	17.6	89.96394	308.99713	292.75431	5.70404	0.0732844	2.3769866644008
(594609)	18.2	178.16231	286.45395	234.67688	1.58740	0.1594801	2.3490180644009
(594610)	17.8	190.20350	298.63570	225.88527	4.72661	0.0926838	2.3131048644009
(594611)	18.2	57.27514	11.58452	260.04765	1.72468	0.1691258	2.3921256644010
(594612)	17.9	100.61672	296.91729	296.76022	5.87705	0.1842828	2.3386160644010
(594613)	18.7	171.29889	259.51352	269.68168	1.38380	0.1308986	2.3459496644010
(594614)	18.2	36.00358	29.67672	258.10746	2.00636	0.1723925	2.4196497644010
(594615)	18.4	326.73004	102.86726	299.35755	6.09638	0.0996105	2.3146038644011
(594616)	17.7	20.73787	330.03387	354.71125	17.02901	0.2693557	2.4080853644011
(594617)	17.8	353.28714	90.14882	264.66234	4.11081	0.1064772	2.4013858644011

(594618)	17.8	13.39567	59.97121	264.91401	6.98829	0.1285005	2.4277452644012
(594619)	17.7	339.74853	105.25966	200.65620	28.19609	0.3405277	2.6006782644012
(594620)	18.6	129.26046	53.80337	134.89417	2.84214	0.1295558	2.4598904644012
(594621)	18.3	304.28361	89.75708	344.36989	5.11414	0.1597592	2.3453579644013
(594622)	17.8	51.80416	336.84619	314.02917	2.84834	0.1906774	2.3640997644013
(594623)	17.9	345.06486	306.75169	51.95012	4.01913	0.1847770	2.4394856644013
(594624)	18.1	61.07690	217.79854	47.40376	5.61822	0.2304783	2.3901884644014
(594625)	18.1	325.95100	266.22299	133.66146	5.13492	0.1819750	2.4488297644014
(594626)	17.0	327.86114	147.84017	190.80952	19.10018	0.2792291	2.6070839644014
(594627)	17.1	235.45293	182.86329	294.47219	11.42403	0.1012252	2.4515486644015
(594628)	17.7	5.65302	98.22298	226.78863	1.69654	0.2121308	2.4662584644015
(594629)	18.4	83.14353	210.19890	38.60964	4.93536	0.0525075	2.5786146644016
(594630)	17.5	205.18343	266.83273	253.13232	6.49858	0.0836975	2.3994714644016
(594631)	17.7	94.65264	12.55044	250.40426	5.14377	0.1144737	2.3652949644016
(594632)	18.1	235.96251	223.04925	240.95339	6.70587	0.1183533	2.5785583644017
(594633)	17.5	256.61913	140.64214	309.74485	5.35864	0.0229187	2.4491377644017
(594634)	18.2	315.13143	145.84660	260.82309	1.03131	0.2419739	2.4741750644017
(594635)	17.4	55.20747	180.00415	83.67413	7.98232	0.2096659	2.4642871644018
(594636)	18.3	47.29344	339.08473	309.08604	1.65405	0.1674207	2.4060394644018
(594637)	18.1	235.45103	93.57469	357.76146	3.26449	0.0713359	2.5914042644018
(594638)	17.7	160.96120	6.65515	146.05734	1.47217	0.0651724	2.6294306644019
(594639)	17.4	147.48408	217.60639	345.03825	10.90683	0.1797959	2.3839455644019
(594640)	18.2	40.59507	97.15951	174.61795	6.68342	0.0815432	2.5803722644019
(594641)	18.5	256.04470	268.97271	204.82828	1.10945	0.1429648	2.4168862644020
(594642)	18.1	38.54926	317.14623	336.84093	4.18208	0.2284417	2.4263252644020
(594643)	18.0	87.35157	218.73017	339.44206	4.63670	0.0878138	2.7643567644020
(594644)	18.6	231.89022	321.20485	146.46464	2.17147	0.1399647	2.5931723644021
(594645)	17.9	237.93666	99.75466	2.14039	7.19849	0.1038673	2.5722349644021
(594646)	18.1	165.52032	85.21796	86.00852	2.62287	0.0424357	2.5220278644021
(594647)	18.5	251.91260	118.29732	338.64248	4.42885	0.1453834	2.5278511644021
(594648)	17.8	150.55217	354.98184	167.74956	13.82664	0.0960063	2.6612815644022
(594649)	18.0	76.88932	224.11388	7.09413	7.19705	0.1509560	2.5955325644022
(594650)	18.0	280.51155	295.90707	118.38359	4.04771	0.1943149	2.6275801644022
(594651)	18.0	257.97752	14.59589	26.70811	5.86686	0.0431387	2.7278161644022
(594652)	17.4	323.34958	332.25576	11.77521	12.06944	0.1998260	2.6414589644023
(594653)	17.9	98.27918	197.53894	14.24432	13.49888	0.1024231	2.6199345644023
(594654)	17.7	43.30299	193.67125	95.14295	3.47524	0.2052587	2.4478488644023
(594655)	18.2	7.60886	42.01559	326.54159	0.40632	0.2017542	2.3682501644024
(594656)	18.0	28.34068	25.95672	291.52912	0.65841	0.1894311	2.4350653644024
(594657)	17.5	79.42145	178.82487	54.52824	1.42448	0.0225195	2.6892666644024
(594658)	18.0	69.66786	276.75623	351.60560	1.02783	0.1617439	2.4561335644025
(594659)	18.2	299.51718	87.37392	355.75702	7.32843	0.2203104	2.4346514644025
(594660)	18.6	56.38286	104.87202	155.52702	1.07195	0.1392681	2.5593173644025
(594661)	17.7	170.87416	79.97877	77.75096	6.10580	0.0841923	2.6866664644026
(594662)	16.7	193.58912	95.35014	65.13619	15.58737	0.0411022	2.5319577644026
(594663)	17.8	332.94597	235.62483	91.06171	10.65922	0.0858847	2.7692875644026
(594664)	17.3	5.76985	257.62691	21.97030	12.37016	0.2724351	2.6591882644027
(594665)	18.3	336.23291	329.27139	26.53152	2.27953	0.0106556	2.5549752644027
(594666)	17.3	1.90859	144.50651	192.89721	11.69929	0.1820679	2.6843691644027
(594667)	17.8	330.88987	204.10942	140.71254	5.08759	0.0844218	2.7902426644028
(594668)	18.1	65.29451	167.35356	97.02823	7.10145	0.1113493	2.4279492644028
(594669)	18.0	235.06368	150.18479	320.47114	3.09627	0.1931971	2.5851035644028
(594670)	17.5	65.68268	218.81267	88.60718	5.62676	0.2192653	2.3249535644028
(594671)	18.2	76.42960	74.38954	177.32531	1.32427	0.1435250	2.4574288644029
(594672)	16.9	24.71000	284.15223	343.28313	13.75281	0.1250486	2.6634101644029
(594673)	17.8	69.90503	258.62912	332.35687	3.63118	0.1223056	2.6338215644030
(594674)	18.0	324.45542	72.90649	354.18006	7.10968	0.0843923	2.3132705644030
(594675)	18.3	209.11278	123.85673	20.71683	5.33071	0.1018641	2.4744705644030
(594676)	17.7	94.83108	175.34797	84.22730	5.80087	0.1655155	2.3519594644031
(594677)	17.8	60.10538	250.48744	6.56452	2.85673	0.0374066	2.6715869644031
(594678)	18.2	14.02046	78.55296	241.83116	1.02142	0.1425670	2.5370247644032
(594679)	18.0	50.08864	189.91788	78.21592	3.10378	0.0355051	2.6623805644032
(594680)	17.9	272.20658	307.31118	122.43738	4.27324	0.1745819	2.6568807644032
(594681)	18.0	325.96672	233.97123	169.93371	6.33239	0.1387090	2.4826539644032
(594682)	18.0	314.91357	304.00996	140.56406	5.87755	0.0688388	2.3180344644033
(594683)	17.5	104.81654	171.57622	53.04132	6.83319	0.0639667	2.5631023644033
(594684)	17.5	76.74839	113.26269	123.76014	6.86492	0.1468903	2.6124090644034
(594685)	17.7	355.33777	351.02115	17.33877	7.40475	0.0879775	2.4730933644034
(594686)	17.0	279.56205	77.83747	348.08313	14.23823	0.0859970	2.6218386644034
(594687)	17.4	6.04979	130.47604	211.32413	6.63718	0.0781160	2.4775211644035
(594688)	18.1	338.18262	192.76388	195.27057	4.12454	0.2168285	2.4668655644035
(594689)	17.4	12.82104	152.47146	192.03893	13.10933	0.1857966	2.5373981644036
(594690)	17.4	303.95362	222.30954	185.12927	21.87699	0.0354601	2.6019321644036
(594691)	18.2	21.73349	191.31414	145.58386	7.25271	0.1565101	2.4850524644036
(594692)	18.0	29.22129	250.04934	82.43366	7.38016	0.1768742	2.4552951644037
(594693)	18.1	356.28018	348.33217	10.90700	4.88969	0.1740402	2.5149098644037
(594694)	17.6	347.59475	145.22776	194.03834	14.05158	0.1077840	2.5801240644037
(594695)	17.9	257.72301	260.49056	167.75769	6.39360	0.0246959	2.7422750644038
(594696)	17.7	23.21629	244.26863	91.78598	9.79337	0.1818553	2.5708032644038
(594697)	18.0	205.78459	21.50420	100.09993	5.10595	0.0474136	2.7810683644038
(594698)	17.8	335.94654	193.84756	148.29996	1.96595	0.0657530	2.7714567644038
(594699)	17.7	54.00908	9.64199	277.82385	10.84130	0.0526833	2.5823201644039
(594700)	17.7	11.45182	217.57436	102.06510	4.02160	0.0993151	2.6744212644039
(594701)	17.6	119.42366	165.48113	45.95477	10.51112	0.1389738	2.5793975644039
(594702)	17.5	6.69350	199.93857	151.67799	15.38762	0.1196388	2.6020650644039
(594703)	17.8	253.93613	173.64963	255.02739	2.31856	0.0711806	2.7637726644040
(594704)	17.4	321.86380	341.43360	31.94923	14.18054	0.2905622	2.5965401644040
(594705)	17.4	354.90369	120.72465	207.19214	26.13188	0.1795941	2.6214679644040
(594706)	17.7	58.46795	215.00355	70.85831	11.72120	0.1177166	2.6219654644041
(594707)	19.0	337.15905	143.84931	207.33576	4.78549	0.2853987	2.5967651644041
(594708)	17.6	337.01392	169.05206	179.92538	13.04152	0.1097082	2.6115433644041
(594709)	18.1	17.86452	100.76839	250.60269	1.60009	0.1900266	2.4313691644042
(594710)	17.7	340.65613	121.78969	240.03762	11.30444	0.1789710	2.6332914644042
(594711)	17.4	358.74074	295.14150	54.80184	15.58054	0.2193008	2.5872524644042
(594712)	17.3	276.15142	226.40227	215.04220	21.51549	0.0394037	2.5919133644043
(594713)	17.6	318.17539	202.37404	198.88679	6.95319	0.1991541	2.5654081644043
(594714)	17.1	345.44659	320.82722	41.69254	10.56623	0.1935702	2.5846586644043
(594715)	17.7	309.21576	60.37420	314.48473	3.25187	0.0858934	2.7912597644044
(594716)	17.5	192.47556	162.81762	343.89778	4.42456	0.1033503	2.7435645644044
(594717)	16.6	228.96982	321.70047	161.06012	14.84017	0.1361773	2.8032061644044
(594718)	17.7	2.03416	104.57997	237.40759	7.41580	0.1307222	2.6473116644045
(594719)	17.8	353.68234	200.63963	155.79984	6.23178	0.0670362	2.6383918644045
(594720)	17.7	36.80081	22.99416	275.17255	4.30198	0.1940386	2.6371798644046
(594721)	17.9	237.82087	87.18308	4.14905	4.16940	0.0137526	2.7940364644046

(594722)	17.7	149.21633	128.91864	38.80194	10.81761	0.0255194	2.9153611644046
(594723)	17.3	34.70687	250.62984	39.49273	18.50359	0.1357001	2.7609223644046
(594724)	17.8	82.24725	91.91212	172.07928	11.62102	0.0839453	2.5932099644047
(594725)	17.0	325.23146	35.50518	359.71739	32.67779	0.2468107	2.6700051644047
(594726)	17.1	356.15761	172.18405	190.94638	15.22610	0.1822178	2.5646833644047
(594727)	17.8	56.37768	255.88352	11.70984	4.83441	0.0371885	2.7677715644047
(594728)	17.6	14.46230	279.51022	36.95194	12.83577	0.2800229	2.5647433644048
(594729)	17.5	160.59682	228.73560	301.35956	2.57971	0.0240815	2.7624129644048
(594730)	17.8	80.54267	218.00627	28.63062	4.85338	0.0191205	2.7915212644048
(594731)	16.9	140.59127	290.10494	247.01600	5.57954	0.1694798	2.9296480644049
(594732)	17.6	348.45006	9.42531	341.34365	6.21529	0.0471450	2.6879287644049
(594733)	17.6	329.91051	234.58232	147.54688	5.37607	0.2358910	2.6129340644049
(594734)	18.1	354.27351	277.02588	86.54252	6.74015	0.2426736	2.5539174644050
(594735)	18.0	35.16590	102.70894	202.05727	1.96205	0.1723749	2.5960989644050
(594736)	17.8	317.66518	196.59245	179.11203	6.26219	0.0160181	2.7407751644050
(594737)	17.0	25.50107	284.38997	37.41058	14.85430	0.2190239	2.5753076644050
(594738)	17.4	29.88309	104.50714	180.70697	10.79206	0.1210116	2.9343402644051
(594739)	16.7	127.74152	3.42697	184.69105	9.04692	0.0693088	3.0727573644051
(594740)	17.2	6.35831	313.43862	39.77559	8.29300	0.2270644	2.5501625644052
(594741)	17.6	207.99705	304.71901	179.20146	5.07291	0.0684023	2.8086884644052
(594742)	16.7	304.29007	309.15251	92.39663	26.65431	0.2193742	2.7267771644052
(594743)	17.8	4.62297	285.16916	75.04457	13.94348	0.2177175	2.5379317644053
(594744)	17.2	163.42764	8.13587	149.96758	9.70490	0.0455659	3.0222687644053
(594745)	17.4	30.38460	189.23497	142.25616	15.96003	0.1319296	2.6042968644053
(594746)	17.3	223.83638	42.63999	87.14273	11.57691	0.0493639	3.0022998644053
(594747)	17.8	13.12862	77.70617	257.62980	2.22667	0.0623207	2.7027935644054
(594748)	17.8	15.25476	253.37833	79.58340	12.29886	0.2058585	2.6048148644054
(594749)	17.2	40.92913	246.94861	37.63385	13.14226	0.2537640	2.6920171644054
(594750)	17.4	355.44098	324.92620	50.77595	16.16042	0.1310336	2.5323818644055
(594751)	18.1	223.30313	81.79654	51.49443	3.82210	0.1792288	2.7840059644055
(594752)	17.0	352.11585	242.96338	57.04494	12.03550	0.0980814	3.0546243644055
(594753)	17.6	317.29031	330.94465	60.79049	3.84171	0.1338463	2.6818786644055
(594754)	17.8	296.82276	345.91607	64.20428	7.08041	0.0318259	2.7285278644056
(594755)	17.9	308.63650	258.58445	128.87705	1.40756	0.0850841	2.7666159644056
(594756)	17.9	330.42266	302.07098	82.24858	4.04037	0.0998753	2.6525324644056
(594757)	17.6	359.26647	295.48129	58.08214	6.87031	0.0539365	2.6734187644056
(594758)	17.7	90.26489	41.96452	249.47789	6.08351	0.1200714	2.4867198644057
(594759)	17.7	358.73417	275.88333	69.92885	3.96870	0.1292121	2.6754639644057
(594760)	17.2	280.28073	322.90047	78.64192	13.11968	0.0555311	2.9230686644057
(594761)	17.4	275.66841	289.59442	123.85152	3.10881	0.0606151	2.8813027644057
(594762)	17.5	280.45266	10.58183	48.23541	4.67860	0.0907765	2.7703882644058
(594763)	17.7	256.33225	355.18172	72.39746	3.05481	0.0173241	2.8763813644058
(594764)	17.7	354.51498	307.93567	31.49552	8.20166	0.1277352	2.7149438644058
(594765)	17.6	308.05071	294.25836	101.51714	4.35659	0.0909088	2.7519341644059
(594766)	17.7	32.39288	149.55891	161.19004	10.72749	0.1062203	2.7070740644059
(594767)	17.2	301.09565	266.06620	164.86719	15.12788	0.1919766	2.6465116644059
(594768)	16.9	308.06381	314.85929	43.79962	12.52810	0.1301399	2.9632337644059
(594769)	19.6	310.27844	77.36535	259.80677	26.59378	0.3121627	1.6427825644060
(594770)	17.8	356.57252	197.68396	177.04392	7.14807	0.2445914	2.5316386644060
(594771)	16.7	258.29519	1.68619	89.24900	10.83528	0.0865505	3.0325738644060
(594772)	16.8	106.85284	330.87772	271.97253	8.35674	0.0474852	3.1168931644061
(594773)	17.6	24.94396	233.70669	104.30198	7.06166	0.1775746	2.5641419644061
(594774)	17.0	210.02215	317.84460	156.19500	4.20586	0.0956476	3.0306026644061
(594775)	17.0	42.88495	204.73408	105.11816	12.17455	0.1942536	2.6357375644062
(594776)	17.2	193.99766	186.15854	335.14990	9.89769	0.0669369	2.9794891644062
(594777)	16.8	214.09867	152.48686	334.13146	6.87047	0.2108192	3.1294213644062
(594778)	17.3	326.74064	325.41905	95.93785	6.80333	0.2871875	2.6384619644063
(594779)	16.1	316.50224	89.11453	323.57785	21.46662	0.0561497	2.6633329644063
(594780)	17.0	305.15493	12.37594	68.71247	14.37007	0.1290799	2.6129533644063
(594781)	17.3	310.72461	359.08097	79.45726	12.28982	0.2009597	2.6007621644064
(594782)	17.2	353.57467	237.58065	131.04952	5.16218	0.3194257	2.5406666644064
(594783)	16.6	153.11749	335.55310	191.14385	27.11144	0.1118553	3.2216103644064
(594784)	16.3	77.82578	11.60977	270.87755	22.15352	0.1252181	3.1359020644065
(594785)	16.7	185.97261	266.11259	278.58178	11.33268	0.1311596	3.0873895644065
(594786)	17.1	311.17965	262.63197	167.27011	8.93683	0.2593319	2.6894582644065
(594787)	16.7	190.26874	296.48157	251.14857	7.41140	0.1639322	3.0270719644065
(594788)	17.6	307.62279	195.36953	206.63141	5.20852	0.0565279	2.6719899644066
(594789)	16.5	91.85483	98.25370	168.75711	26.74172	0.1016714	3.1328324644066
(594790)	17.7	27.09599	233.83696	133.79576	12.44195	0.0351804	2.9029903644066
(594791)	17.3	340.66096	277.66119	121.00807	9.02105	0.3782081	2.5647199644067
(594792)	17.7	321.57029	279.43216	127.52754	9.05934	0.3759263	2.6860618644067
(594793)	16.8	158.83827	185.11407	7.05359	9.56358	0.0266136	3.1878247644067
(594794)	16.8	310.45270	123.87197	329.57001	4.35409	0.1100416	2.9250951644068
(594795)	17.0	239.88704	155.36913	334.68691	12.69173	0.0420125	3.1256313644068
(594796)	16.3	69.25601	51.89140	265.08856	9.79543	0.1073253	3.1212854644068
(594797)	16.8	277.81599	188.23257	292.40533	12.46125	0.1302157	2.7406272644069
(594798)	17.1	287.32499	337.37300	140.19084	8.74670	0.1721691	2.7411269644069
(594799)	16.1	224.57039	45.73724	81.72759	18.38143	0.1491759	3.1236704644070
(594800)	16.9	282.96261	150.47317	329.52893	12.98357	0.2048018	2.6944992644070
(594801)	15.6	165.61083	238.64143	309.67211	16.02364	0.1196774	3.2106345644071
(594802)	17.1	329.17547	331.46424	96.70857	6.18653	0.2288378	2.6210709644071
(594803)	16.9	253.45469	315.58683	137.09394	29.11449	0.2610713	3.1043737644071
(594804)	16.6	252.95620	10.15120	89.85573	17.54126	0.2109331	3.0366569644072
(594805)	17.3	306.01812	125.30179	322.93334	11.37023	0.2260282	2.6707631644072
(594806)	17.1	290.82434	353.08427	117.21115	10.65315	0.1862789	2.7589451644072
(594807)	17.2	335.13068	265.54885	129.97643	15.65293	0.1567280	2.8761945644073
(594808)	16.9	276.50388	341.40356	113.96991	11.56976	0.0507063	3.0006295644073
(594809)	16.7	337.95389	341.60011	43.16995	15.27305	0.0233683	3.1773899644073
(594810)	16.6	315.24714	69.06725	333.34327	21.21859	0.1515802	3.0413228644074
(594811)	15.8	186.73402	191.35783	350.88976	23.00332	0.0795336	3.2030226644074
(594812)	16.7	33.77856	269.91383	78.52282	10.26327	0.0385822	3.0774113644074
(594813)	16.7	333.41825	281.17319	128.37748	5.84117	0.1342440	3.0965268644074
(594814)	16.2	26.55170	212.19637	157.74312	11.38380	0.1101471	3.0888572644075
(594815)	16.3	319.21528	336.77825	75.02459	6.34049	0.1427983	3.2222287644075
(594816)	16.6	3.43176	214.40808	174.14517	14.85374	0.1404765	3.1476404644076
(594817)	16.2	312.37181	2.13173	77.49623	7.91619	0.1076597	3.1016182644076
(594818)	16.4	280.61586	295.19986	175.94412	9.35748	0.0449672	3.1053870644076
(594819)	18.2	353.61769	166.66988	178.63578	27.58127	0.0153112	1.7648705644077
(594820)	18.6	305.75224	8.02587	16.82566	20.22697	0.1205793	1.7936143644077
(594821)	19.1	329.95392	279.74022	58.42739	22.61334	0.0875544	1.8742667644078
(594822)	18.9	298.75601	282.14338	105.28556	24.43847	0.0497541	1.8256174644078
(594823)	18.9	294.45605	198.00067	197.20873	19.75674	0.0970849	1.8807472644078
(594824)	18.8	276.17396	207.28837	207.78197	21.93990	0.0855269	1.8827773644078
(594825)	15.0	22.37679	331.23739	50.60570	8.11856	0.1075689	5.2011279644079

(594826)	18.4	304.10143	93.31364	312.38363	17.63501	0.1129974	1.9127766644079
(594827)	14.7	4.08347	21.81559	7.15381	8.54022	0.0580620	5.2742230644079
(594828)	18.7	218.53153	192.54068	303.64743	18.20058	0.0658295	1.9152301644080
(594829)	18.7	4.26507	137.96251	159.12904	5.47669	0.1358222	2.1914570644080
(594830)	18.4	97.48704	264.75624	355.56529	19.01403	0.0569492	1.9636049644080
(594831)	18.9	267.56414	102.47224	323.12803	4.78717	0.1838389	2.2761004644081
(594832)	17.3	290.36514	299.04070	143.57843	22.35544	0.2015535	2.2760723644081
(594833)	18.7	219.91661	195.63059	272.19231	6.83376	0.0732632	2.2854794644081
(594834)	18.4	52.64398	346.02878	286.83846	6.27914	0.0954726	2.2249342644082
(594835)	17.9	224.00703	293.79401	163.17402	5.15123	0.1928033	2.4225313644082
(594836)	18.7	5.01946	187.14667	147.07437	2.75187	0.2167124	2.1230676644083
(594837)	18.8	306.62297	337.05195	73.10900	3.98761	0.1308722	2.1560814644083
(594838)	18.6	201.93222	77.12191	53.00051	3.48177	0.1467263	2.3741381644083
(594839)	18.7	337.80756	315.94803	16.13755	4.52943	0.0979410	2.3097491644083
(594840)	18.8	245.05970	73.22751	14.61393	4.58399	0.1980313	2.3197183644084
(594841)	18.5	215.15805	105.60884	25.77874	5.92464	0.0904195	2.1919906644084
(594842)	18.7	243.04655	87.22718	353.84623	3.90346	0.0945600	2.2904041644084
(594843)	18.1	51.50858	185.78945	98.30905	5.23534	0.2167683	2.1624482644085
(594844)	18.3	228.91773	33.30763	49.27525	2.37119	0.1509089	2.4353806644085
(594845)	18.3	222.82583	228.87117	230.22948	9.32534	0.1623070	2.3933924644085
(594846)	18.9	350.80804	6.92196	323.92761	2.90760	0.1317957	2.2516210644086
(594847)	18.2	201.76074	208.45640	298.36895	4.76394	0.1161106	2.4315660644086
(594848)	17.3	259.20681	281.98125	163.29523	12.01312	0.0312375	2.6012563644086
(594849)	17.7	229.89986	218.22394	267.48335	5.68038	0.1237572	2.3154910644087
(594850)	16.6	162.24420	112.35064	39.55093	13.49995	0.1679469	2.9425839644087
(594851)	17.7	249.31532	240.26627	229.91742	5.85788	0.1079250	2.2886941644087
(594852)	16.7	9.98719	274.58148	45.22060	8.86950	0.2085135	2.4693025644088
(594853)	17.5	326.78953	305.14246	77.71498	15.32711	0.0897242	2.4154220644088
(594854)	17.8	285.44210	157.96953	244.36731	5.09541	0.0410480	2.6883735644089
(594855)	16.6	173.50247	194.05141	341.50649	33.22549	0.1543826	2.6221826644089
(594856)	17.5	133.86089	291.93068	286.43887	10.37259	0.2459504	2.6475994644089
(594857)	17.5	189.68746	38.62386	93.95443	2.09761	0.0480921	2.6774737644090
(594858)	17.3	91.03160	310.74660	296.16997	14.24446	0.0845882	2.6013758644090
(594859)	17.3	150.60870	92.21043	84.73815	6.06780	0.0451686	2.6954791644090
(594860)	17.4	249.40522	105.02940	315.91372	3.39281	0.0529665	2.7913351644091
(594861)	17.2	72.63039	268.08635	7.79106	12.83086	0.1599632	2.6132841644091
(594862)	17.8	313.25281	100.97277	299.56371	12.80955	0.0781888	2.3627153644091
(594863)	17.8	348.31866	83.09117	298.45179	7.02882	0.1319937	2.2578627644092
(594864)	18.3	250.41100	223.11968	238.18987	0.66549	0.1443656	2.3697930644092
(594865)	17.4	215.94838	27.55612	94.82416	13.83756	0.2090964	2.5795937644093
(594866)	17.5	246.80169	171.16686	316.45615	23.94715	0.2226681	2.3825723644093
(594867)	17.1	126.93080	31.40217	132.61338	11.27966	0.1016467	3.1458055644093
(594868)	17.6	87.85071	134.90632	99.28131	5.93226	0.1032326	2.7899560644094
(594869)	18.0	62.04898	86.17323	187.34032	3.91648	0.0370272	2.6709607644094
(594870)	17.4	270.10290	128.79072	344.56778	24.04059	0.1811071	2.2626877644094
(594871)	17.3	112.66867	167.03718	52.34064	10.85495	0.0615932	2.6343075644095
(594872)	13.3	6.07612	332.44216	23.15382	160.32944	0.5938194	14.4564930644095
(594873)	17.8	236.77345	299.87566	158.97711	5.34285	0.2130568	2.6195580644095
(594874)	17.4	99.24719	163.46253	99.38527	6.30667	0.0890021	2.5692074644096
(594875)	17.7	340.62703	256.55019	103.76198	7.27106	0.0636679	2.6896565644096
(594876)	16.9	221.12853	179.15057	328.48830	24.67510	0.2091227	2.4504994644096
(594877)	18.2	335.94386	232.57903	161.54550	7.01080	0.1483162	2.2865149644097
(594878)	18.9	219.27750	332.40164	156.34009	13.87252	0.1864519	2.5357279644097
(594879)	17.2	112.13608	28.59585	160.91523	10.86050	0.1427954	3.1500783644097
(594880)	17.0	211.24228	148.97799	349.93365	13.24122	0.2048566	2.6913247644098
(594881)	16.9	105.04204	340.85627	262.46663	4.82083	0.0123380	2.8484777644098
(594882)	16.8	167.96371	309.04760	205.46148	11.65227	0.1772259	3.1506879644098
(594883)	16.6	90.83540	225.75137	35.42410	12.45016	0.0928383	3.1978706644099
(594884)	16.0	36.83619	250.64593	70.13195	13.69851	0.0657801	2.8566397644099
(594885)	17.6	291.52720	345.76352	75.18832	5.11359	0.0549228	2.7660545644099
(594886)	17.1	288.16887	214.02742	216.46225	10.32191	0.0651255	2.9902468644100
(594887)	16.4	333.27879	335.10836	47.48049	12.68547	0.1131716	3.1474014644100
(594888)	16.6	74.25982	351.14189	319.48008	7.54574	0.0686191	2.6292497644100
(594889)	17.1	244.90153	93.70745	359.91873	10.30937	0.0727417	3.0744240644101
(594890)	16.6	229.81132	66.40800	52.27511	9.86226	0.0346173	3.1816658644101
(594891)	17.2	234.84196	73.91055	54.20716	4.56529	0.0480746	2.7960779644101
(594892)	16.2	147.56781	22.08568	169.18166	28.39459	0.1259379	3.1723892644102
(594893)	16.0	108.38325	293.31256	298.90526	17.43338	0.1618691	3.1702683644102
(594894)	16.6	205.52300	222.05567	294.02302	12.34492	0.1381669	2.6775876644103
(594895)	16.3	162.84548	119.55737	52.37607	15.04732	0.1604004	3.1331886644103
(594896)	16.4	329.23976	328.37039	69.13032	11.14348	0.1027315	3.1269910644103
(594897)	16.8	128.81608	161.42974	71.79525	10.60502	0.0312460	3.2038174644104
(594898)	17.5	294.73265	49.74255	54.50984	4.71622	0.0620680	2.6044764644104
(594899)	17.4	310.53842	342.44951	108.54388	7.96315	0.0836889	2.4704393644104
(594900)	16.6	29.80292	274.79035	74.10420	17.06748	0.1531990	3.1315999644105
(594901)	17.4	308.75771	32.35868	50.07474	15.16204	0.0894967	2.7628137644105
(594902)	13.8	327.06483	169.66235	247.64818	25.27869	0.0500057	5.1458937644105
(594903)	13.8	358.67876	127.99421	256.40777	30.27871	0.0116463	5.2296267644106
(594904)	16.6	159.38603	328.14607	250.39320	9.97127	0.0131251	3.1711525644106
(594905)	13.7	347.16705	133.34159	256.94793	21.87239	0.0448533	5.1262871644106
(594906)	14.2	298.58416	227.72359	232.54086	17.06821	0.1515159	5.2166273644107
(594907)	14.4	356.20795	282.11031	95.88804	13.49049	0.0770848	5.2614118644107
(594908)	14.2	8.48920	315.21751	68.26755	15.06413	0.1318050	5.2024432644108
(594909)	14.4	5.81863	219.85186	171.30274	12.53003	0.0767904	5.1424321644108
(594910)	14.7	17.54430	218.91072	156.61000	9.32292	0.0684335	5.1876395644108
(594911)	14.8	7.64215	240.63871	158.07667	10.37999	0.0892684	5.2335495644109
(594912)	13.5	344.10786	119.83643	276.38326	30.54106	0.0716507	5.2191817644109
(594913)	16.2	94.81796	187.33041	6.70568	15.86814	0.1770068	0.5554385644109
(594914)	18.5	47.25571	244.40951	0.84744	1.96863	0.1681077	2.3583816644110
(594915)	18.6	36.37335	97.81083	184.24896	3.15139	0.1521913	2.2158436644110
(594916)	17.7	132.22319	12.63086	185.10283	4.88595	0.1892216	2.5713167644111
(594917)	17.0	76.51281	193.39069	77.99839	15.63181	0.2702477	2.5627228644111
(594918)	16.8	56.87050	198.03895	71.35107	14.26383	0.2389132	2.9695568644112
(594919)	17.4	33.79708	232.46266	98.56821	13.33957	0.2670165	2.5950666644112
(594920)	16.8	14.66716	258.53626	53.79356	6.43073	0.1831216	3.0674555644112
(594921)	17.4	99.75080	357.52827	230.22066	14.59896	0.1172305	2.6160232644113
(594922)	17.5	61.69606	38.12460	239.04405	7.01762	0.1901067	2.7584380644113
(594923)	16.6	346.21601	155.58510	184.98045	20.79196	0.1320837	3.1643342644113
(594924)	17.7	39.57081	208.49008	81.49796	5.06472	0.0740560	2.7868285644113
(594925)	17.9	56.79698	293.01592	342.67742	1.46579	0.1765083	2.6352849644114
(594926)	17.6	344.80886	39.19949	282.01506	5.22189	0.0560535	2.6863000644114
(594927)	18.2	248.00091	349.98958	110.39737	4.71671	0.1178278	2.3075610644114
(594928)	16.9	61.35666	183.25069	74.18417	13.43411	0.0782820	3.0686363644115
(594929)	15.8	106.14586	303.88772	313.84542	17.80632	0.1339468	3.1681735644115

(594930)	16.9	38.06762	207.04026	126.25359	11.43984	0.1213966	3.2178009644115
(594931)	17.2	79.00245	112.22949	128.93973	16.83197	0.1058330	3.0944510644115
(594932)	14.8	332.07722	172.10791	231.97727	1.80902	0.0433992	5.1741007644116
(594933)	14.8	249.81327	334.19185	153.72735	8.42480	0.0191366	5.1480951644116
(594934)	17.8	57.01286	137.93693	305.99253	6.93563	0.1541065	2.6517790644116
(594935)	17.4	8.92875	137.56530	20.53171	2.96934	0.1125758	3.0543356644116
(594936)	17.8	37.26513	16.00174	2.27772	6.76556	0.7369405	2.4897829644117
(594937)	18.7	30.72762	71.73357	117.86052	2.78873	0.0991052	2.3839788644117
(594938)	18.2	19.18696	156.18290	115.30647	29.65339	0.4715324	2.1862529644117
(594939)	17.3	351.52755	138.40173	106.96531	1.93079	0.1931889	3.0348962644117
(594940)	17.1	295.66556	275.04677	152.31824	13.88485	0.3120901	3.0733155644118
(594941)	18.5	323.50897	310.39626	59.61886	7.49298	0.1359476	2.3821354644118
(594942)	16.8	80.48946	283.05305	291.21557	9.36632	0.0582047	3.1456456644118
(594943)	16.9	8.93188	317.76809	328.86699	9.85664	0.1138736	3.1017036644118

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

1997 TH	= 2003 UE_{31} *MPO* 60492
2007 YE_{39}	= 2006 UP_{309} *MPO* 201813
2010 UK_{68}	= 2006 WP_{116} *MPO* 196193
2012 XT_{62}	= 2005 GV_{184} *MPO* 247327
2014 HV_{36}	= 2017 CD_{22} *MPO* 399505
2017 WW_{26}	= 2015 FF_{247} *MPO* 425788

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement*.

1993 BF_{12} = 2005 YY_{252}
1994 RD_{30} = 2010 HL_{93}
1994 UJ_{13} = 2011 UA_{148}
1995 CA_5 = 1986 FC = 2012 YD_2
1995 SU_{31} = 2017 UK_{151}
1995 SU_{46} = 2005 AM_{40} = 2009 BN_{213}
1995 UO_{28} = 2017 UK_{152}
1995 UP_{76} = 2010 VF_{66} = 2010 VX_{223}
1995 WH_{11} = 2021 JY_{10}
1996 RQ_{17} = 2014 WY_{599}
1997 AZ_{11} = 2018 GY_8
1997 TH = 2017 FH_{187}
1997 TH_8 = 1996 EO_{16} = 2014 YL_{12}
1997 US_{11} = 2015 UK_{69}
1998 GO = 2013 EQ_{27} = 2013 EO_{179}
1998 KA_1 = 2006 DB_{46} = 2010 FR_{97} = 2016 UZ_{96}
1998 OL_4 = 2021 QV
1998 SV_{41} = 2009 VH_9 = 2009 WC_{265} = 2009 WN_{296}
1998 SY_{178} = 2017 FW_{198}
1998 TC_{24} = 2006 VX_{123} = 2015 AC_{71} = 2021 PK_{48}
1998 WF_{36} = 2005 NQ_{88}
1999 CK_{143} = 2015 BD_{144} = 2015 FV_{449}
1999 FQ_{81} = 2014 QM_{560}
1999 FM_{92} = 2010 DH_{114}
1999 FO_{93} = 2011 LO_{16} = 2017 SR_9
1999 FO_{100} = 2009 BP_{213}
1999 FX_{100} = 2007 TQ_{498}
1999 NE_{16} = 2010 SG_{61} = 2010 TN_{102} = 2014 WA_{210} = 2016 CM_{204}
1999 TC_{84} = 1999 TK_{307} = 2010 CG_{33}
1999 TO_{85} = 2005 WM_{189} = 2010 NB_{39} = 2012 BU_{40}
1999 TE_{176} = 2006 RU_1 = 2013 PT_4
1999 TG_{305} = 2007 GC_{82}
1999 TN_{312} = 2006 SR_{292}
1999 TN_{337} = 2014 JP_{34}
1999 UK_{65} = 2010 TF_{226}
1999 VZ_{41} = 2011 HL_{92} = 2015 CD_{23}
1999 VA_{152} = 2002 NA_{81} = 2015 BN_{326}
1999 VU_{233} = 2017 FK_{199}
1999 XK_{232} = 2003 UK_{436}
1999 XQ_{260} = 2006 UQ_{13}
1999 YF_{20} = 2015 MT_{41}
2000 AS_{207} = 2004 HU_{82}
2000 BJ_{46} = 2006 VL_{172}
2000 CU_{120} = 2014 SL_7
2000 CH_{129} = 2017 WF_{67}
2000 CH_{151} = 2007 TF_{53} = 2007 VR_{371}
2000 DD_{50} = 2007 VZ_{241} = 2009 DB_{159} = 2010 EA_{187} = 2011 SV_{107}
2000 ER_{209} = 2010 HE_{37} = 2011 WY_{75}
2000 FU_{64} = 2000 GM_{189} = 2006 JF_{83}
2000 FV_{64} = 2005 JH_{72}
2000 GV_{188} = 2003 UX_{448}
2000 OD_{62} = 2014 WW_{125}
2000 OV_{72} = 2006 TE_{144}
2000 QS_{130} = 2007 ED_{225} = 2009 SH_{164} = 2009 ST_{262} = 2015 BG_{516} = 2016 GE_{55}
2000 QB_{148} = 2015 DG_{296}
2000 QL_{226} = 2013 SC_{113}
2000 QJ_{236} = 2015 FK_{450} = 2015 MQ_{34}
2000 QW_{237} = 2011 SE_{46}
2000 QK_{240} = 2011 EJ_{109}
2000 QV_{256} = 2013 EB_{44}
2000 RD_{59} = 2008 VR_{99}
2000 TN_{30} = 2007 RP_{257} = 2014 QT_{229}
2000 TJ_{73} = 2008 WV_{160} = 2014 EV_{256}
2000 UF_{115} = 2011 HU_{24}
2000 VO_{65} = 2004 TO_{154}
2000 VS_{65} = 2014 UX_{225}
2000 YE_{141} = 2011 SE_{176}
2000 YV_{144} = 2003 UV_{448}
2001 DG_{86} = 2021 MN_{16}
2001 FK_{200} = 2021 PU_{38}
2001 FS_{203} = 2001 FK_{242} = 2018 VK_{54}
2001 FN_{204} = 2021 PG_{31}
2001 FT_{214} = 2021 PR_{30}
2001 FV_{240} = 2001 FZ_{248}
2001 FA_{243} = 2021 QL_{23}
2001 FQ_{248} = 2001 FZ_{232}

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2001 VV_{74} = 2009 SE_{417}
2001 WK_{105} = 2017 BC_{59}
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2005 JS_{45} = 2004 DR_{83}
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2005 QF_{80} = 2015 RM_{211}
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2005 QP_{108} = 2016 WL_{74}
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2005 RJ_{15} = 2014 OZ_{222}
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2005 SN_{172} = 2014 QP_{464}
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2005 SP_{268} = 2005 TZ_{83}
2005 SY_{293} = 2015 XA_{476}
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2005 TU_{185} = 2016 VB_{17}
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2005 UG_{56} = 2021 RC_{19}
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2005 UX_{144} = 2014 TC_{84}
2005 UK_{167} = 2020 KH_{37}
2005 UV_{184} = 2013 TF_{158}
2005 UU_{185} = 2016 WM_{50}
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2013 TO_{218} = 2015 BP_{95}
2013 TZ_{225} = 2010 KQ_{138}
2013 TK_{227} = 2015 TU_{363} = 2016 SP_{58}
2013 TB_{228} = 2016 SO_{57}
2013 UW_{23} = 2017 VW_{52}
2013 VX_{56} = 2009 WB_{297}
2013 VM_{61} = 2013 WT_{97}
2013 VS_{68} = 2008 UB_{417}
2013 VU_{71} = 2016 SV_{55}
2013 WL_{74} = 2016 LX_{82}
2013 WS_{91} = 2020 XJ_{10}
2013 WS_{96} = 1994 LT_{5} = 2000 LC_{25} = 2007 VL_{378} = 2011 LE_{1}
2013 WB_{98} = 2010 AU_{155}

2013 $\mathrm{WE}_{100} = 2008\ \mathrm{UR}_{416}$
2013 $\mathrm{WS}_{104} = 2006\ \mathrm{FO}_{61} = 2010\ \mathrm{HW}_{128}$
2013 $\mathrm{WG}_{118} = 2017\ \mathrm{WM}_{66}$
2013 $\mathrm{WY}_{128} = 2014\ \mathrm{AG}_{75}$
2013 $\mathrm{WY}_{133} = 2013\ \mathrm{YV}_{168}$
2013 $\mathrm{XB}_{1} = 2015\ \mathrm{FB}_{450}$
2013 $\mathrm{XQ}_{37} = 2007\ \mathrm{TA}_{499}$
2013 $\mathrm{XP}_{38} = 2010\ \mathrm{EH}_{175}$
2013 $\mathrm{YY}_{38} = 2008\ \mathrm{TW}_{152} = 2015\ \mathrm{FU}_{178}$
2013 $\mathrm{YM}_{54} = 2013\ \mathrm{XQ}_{14}$
2013 $\mathrm{YL}_{93} = 2008\ \mathrm{UY}_{132} = 2008\ \mathrm{UK}_{251} = 2008\ \mathrm{WV}_{25}$
2013 $\mathrm{YQ}_{98} = 2017\ \mathrm{TX}_{40}$
2013 $\mathrm{YF}_{99} = 2010\ \mathrm{BN}_{70} = 2010\ \mathrm{NU}_{111}$
2013 $\mathrm{YZ}_{114} = 2002\ \mathrm{DU}_{20} = 2010\ \mathrm{CM}_{276} = 2012\ \mathrm{UO}_{129}$
2013 $\mathrm{YG}_{164} = 2016\ \mathrm{WS}_{48}$
2014 $\mathrm{AK}_{49} = 2009\ \mathrm{UF}_{188}$
2014 $\mathrm{AG}_{66} = 2017\ \mathrm{VB}_{53}$
2014 $\mathrm{AJ}_{68} = 2008\ \mathrm{VB}_{105} = 2010\ \mathrm{LV}_{137}$
2014 $\mathrm{AM}_{73} = 2009\ \mathrm{UN}_{2}$
2014 $\mathrm{BN}_{15} = 2014\ \mathrm{BE}_{86}$
2014 $\mathrm{BE}_{18} = 2014\ \mathrm{DM}_{188}$
2014 $\mathrm{BE}_{23} = 2018\ \mathrm{BY}_{28}$
2014 $\mathrm{BQ}_{27} = 2016\ \mathrm{NE}_{53}$
2014 $\mathrm{BX}_{83} = 2010\ \mathrm{DB}_{106}$
2014 $\mathrm{BV}_{85} = 2018\ \mathrm{AQ}_{10}$
2014 $\mathrm{CH}_{8} = 2008\ \mathrm{UX}_{162} = 2012\ \mathrm{TY}_{183}$
2014 $\mathrm{CA}_{32} = 2014\ \mathrm{GM}_{87}$
2014 $\mathrm{CU}_{33} = 2006\ \mathrm{WH}_{118} = 2020\ \mathrm{TN}_{2}$
2014 $\mathrm{CC}_{34} = 2010\ \mathrm{GV}_{189}$
2014 $\mathrm{DC}_{41} = 2021\ \mathrm{PB}_{89}$
2014 $\mathrm{DM}_{86} = 2021\ \mathrm{PG}_{19}$
2014 $\mathrm{DG}_{104} = 2015\ \mathrm{MO}_{2}$
2014 $\mathrm{DJ}_{115} = 2014\ \mathrm{DP}_{188}$
2014 $\mathrm{DB}_{134} = 2012\ \mathrm{VF}_{137}$
2014 $\mathrm{DN}_{134} = 2010\ \mathrm{MK}_{119}$
2014 $\mathrm{DD}_{141} = 2001\ \mathrm{VD}_{138}$
2014 $\mathrm{DO}_{144} = 2018\ \mathrm{MK}_{21}$
2014 $\mathrm{DV}_{160} = 2014\ \mathrm{FB}_{88}$
2014 $\mathrm{DX}_{177} = 2016\ \mathrm{UH}_{45}$
2014 $\mathrm{DT}_{188} = 2010\ \mathrm{JR}_{205}$
2014 $\mathrm{EW}_{12} = 2001\ \mathrm{BJ}_{84}$
2014 $\mathrm{ES}_{49} = 2005\ \mathrm{JR}_{158} = 2010\ \mathrm{EF}_{158}$
2014 $\mathrm{EU}_{79} = 2021\ \mathrm{PE}_{18}$
2014 $\mathrm{EZ}_{81} = 2010\ \mathrm{HS}_{136}$
2014 $\mathrm{EO}_{82} = 2020\ \mathrm{HP}_{122}$
2014 $\mathrm{EP}_{82} = 2021\ \mathrm{PZ}_{5}$
2014 $\mathrm{EA}_{97} = 2021\ \mathrm{QE}_{36}$
2014 $\mathrm{EM}_{107} = 2021\ \mathrm{PM}_{31}$
2014 $\mathrm{EO}_{109} = 2021\ \mathrm{PX}_{76}$
2014 $\mathrm{ET}_{136} = 2021\ \mathrm{PG}_{97}$
2014 $\mathrm{EM}_{199} = 2021\ \mathrm{PZ}_{20}$
2014 $\mathrm{EX}_{213} = 2019\ \mathrm{AP}_{28}$
2014 $\mathrm{EL}_{226} = 2014\ \mathrm{FC}_{88} = 2015\ \mathrm{KY}_{44} = 2016\ \mathrm{SQ}_{13}$
2014 $\mathrm{EH}_{253} = 2015\ \mathrm{PV}_{119}$
2014 $\mathrm{EO}_{256} = 2014\ \mathrm{EU}_{225}$
2014 $\mathrm{FM}_{32} = 2017\ \mathrm{XS}_{48}$
2014 $\mathrm{FW}_{57} = 2016\ \mathrm{UP}_{197}$
2014 $\mathrm{GG}_{12} = 2017\ \mathrm{UO}_{48}$
2014 $\mathrm{GY}_{20} = 2015\ \mathrm{PT}_{165}$
2014 $\mathrm{GK}_{26} = 2014\ \mathrm{HN}_{214}$
2014 $\mathrm{GF}_{57} = 2008\ \mathrm{WJ}_{163}$
2014 $\mathrm{GX}_{79} = 2010\ \mathrm{HD}_{129}$
2014 $\mathrm{GB}_{87} = 2010\ \mathrm{EN}_{185}$
2014 $\mathrm{GQ}_{87} = 2010\ \mathrm{LF}_{148}$
2014 $\mathrm{HQ}_{8} = 2014\ \mathrm{HN}_{61}$
2014 $\mathrm{HR}_{60} = 2010\ \mathrm{RN}_{181}$
2014 $\mathrm{HV}_{64} = 2021\ \mathrm{PS}_{83}$
2014 $\mathrm{HN}_{117} = 2021\ \mathrm{PA}_{88}$
2014 $\mathrm{HG}_{152} = 2005\ \mathrm{UX}_{223} = 2010\ \mathrm{MS}_{96}$
2014 $\mathrm{HT}_{154} = 2021\ \mathrm{RL}_{9}$
2014 $\mathrm{HT}_{192} = 2015\ \mathrm{PG}_{93}$
2014 $\mathrm{HM}_{214} = 2010\ \mathrm{JP}_{215}$
2014 $\mathrm{HS}_{216} = 2015\ \mathrm{UK}_{105}$
2014 $\mathrm{JD}_{74} = 2007\ \mathrm{UA}_{163}$
2014 $\mathrm{JZ}_{108} = 2015\ \mathrm{PX}_{347}$
2014 $\mathrm{JZ}_{117} = 2010\ \mathrm{HF}_{123}$
2014 $\mathrm{JZ}_{122} = 2010\ \mathrm{MG}_{124}$
2014 $\mathrm{KK}_{9} = 2016\ \mathrm{UK}_{237}$
2014 $\mathrm{KN}_{14} = 2010\ \mathrm{FT}_{4}$
2014 $\mathrm{KY}_{47} = 2010\ \mathrm{VB}_{269}$
2014 $\mathrm{KW}_{62} = 2019\ \mathrm{HZ}_{11} = 2010\ \mathrm{OP}_{134}$
2014 $\mathrm{KB}_{83} = 2017\ \mathrm{DR}_{70}$
2014 $\mathrm{KV}_{94} = 2013\ \mathrm{EY}_{178}$
2014 $\mathrm{KE}_{139} = 2011\ \mathrm{WO}_{181}$
2014 $\mathrm{LS} = 2010\ \mathrm{HX}_{110} = 2021\ \mathrm{GY}_{68}$
2014 $\mathrm{LE}_{21} = 2021\ \mathrm{JB}_{5}$
2014 $\mathrm{MS}_{23} = 2004\ \mathrm{XL}_{187} = 2006\ \mathrm{DL}_{128} = 2010\ \mathrm{GB}_{111}$
2014 $\mathrm{MS}_{71} = 2014\ \mathrm{OF}_{458}$
2014 $\mathrm{NE}_{9} = 2021\ \mathrm{MQ}_{12}$
2014 $\mathrm{NH}_{31} = 2013\ \mathrm{EP}_{178} = 2014\ \mathrm{QQ}_{315}$
2014 $\mathrm{NK}_{85} = 2014\ \mathrm{OS}_{179}$
2014 $\mathrm{OS}_{6} = 2003\ \mathrm{SH}_{473}$
2014 $\mathrm{OR}_{36} = 2021\ \mathrm{QR}_{12}$
2014 $\mathrm{OU}_{89} = 2021\ \mathrm{PQ}_{57}$
2014 $\mathrm{OP}_{140} = 2021\ \mathrm{PD}_{97}$
2014 $\mathrm{OW}_{148} = 2021\ \mathrm{PA}_{84}$
2014 $\mathrm{OD}_{157} = 2014\ \mathrm{OS}_{438}$
2014 $\mathrm{OO}_{188} = 2012\ \mathrm{FZ}_{109}$
2014 $\mathrm{OK}_{218} = 2008\ \mathrm{CK}_{229} = 2014\ \mathrm{OX}_{457}$
2014 $\mathrm{OR}_{246} = 2021\ \mathrm{QA}_{30}$
2014 $\mathrm{OA}_{252} = 2021\ \mathrm{PX}_{38}$
2014 $\mathrm{OJ}_{275} = 2021\ \mathrm{PE}_{55}$
2014 $\mathrm{OA}_{277} = 2017\ \mathrm{KJ}$
2014 $\mathrm{OX}_{280} = 2010\ \mathrm{OF}_{145}$

2014 $\mathrm{ON}_{348} = 2010\ \mathrm{PQ}_{85}$
2014 $\mathrm{OO}_{371} = 2006\ \mathrm{CC}_{91}$
2014 $\mathrm{OD}_{392} = 2021\ \mathrm{PQ}_{9}$
2014 $\mathrm{OQ}_{405} = 2010\ \mathrm{TW}_{226}$
2014 $\mathrm{OT}_{424} = 2007\ \mathrm{TX}_{498}$
2014 $\mathrm{OD}_{436} = 2017\ \mathrm{FW}_{26}$
2014 $\mathrm{OO}_{442} = 2010\ \mathrm{XS}_{117}$
2014 $\mathrm{OA}_{443} = 2003\ \mathrm{SB}_{473}$
2014 $\mathrm{OB}_{459} = 2014\ \mathrm{QO}_{126}$
2014 $\mathrm{PE}_{5} = 2017\ \mathrm{HS}_{85}$
2014 $\mathrm{PR}_{9} = 2017\ \mathrm{DY}_{2} = 2017\ \mathrm{DV}_{142}$
2014 $\mathrm{PA}_{13} = 2013\ \mathrm{EZ}_{178}$
2014 $\mathrm{PC}_{63} = 2021\ \mathrm{NK}_{7}$
2014 $\mathrm{PB}_{87} = 2013\ \mathrm{EB}_{179}$
2014 $\mathrm{PO}_{89} = 2017\ \mathrm{HG}_{85}$
2014 $\mathrm{QT}_{14} = 2010\ \mathrm{OC}_{45} = 2015\ \mathrm{XS}_{320}$
2014 $\mathrm{QM}_{19} = 2006\ \mathrm{BA}_{282} = 2010\ \mathrm{AW}_{127}$
2014 $\mathrm{QT}_{71} = 2017\ \mathrm{HB}_{38} = 2021\ \mathrm{PR}_{83}$
2014 $\mathrm{QU}_{79} = 2017\ \mathrm{HQ}_{85}$
2014 $\mathrm{QE}_{83} = 2021\ \mathrm{PY}_{21}$
2014 $\mathrm{QG}_{101} = 2021\ \mathrm{PK}_{22}$
2014 $\mathrm{QE}_{113} = 2021\ \mathrm{PQ}_{21}$
2014 $\mathrm{QT}_{120} = 2003\ \mathrm{TP}_{33} = 2009\ \mathrm{WC}_{96} = 2020\ \mathrm{RB}_{44}$
2014 $\mathrm{QN}_{131} = 2009\ \mathrm{SX}_{55} = 2009\ \mathrm{SF}_{183}$
2014 $\mathrm{QO}_{173} = 2021\ \mathrm{PB}_{95}$
2014 $\mathrm{QT}_{186} = 2015\ \mathrm{XR}_{98}$
2014 $\mathrm{QW}_{207} = 2012\ \mathrm{BG}_{146} = 2018\ \mathrm{VX}_{11}$
2014 $\mathrm{QV}_{210} = 2017\ \mathrm{FT}_{34} = 2017\ \mathrm{FX}_{115}$
2014 $\mathrm{QW}_{211} = 2010\ \mathrm{VV}_{268}$
2014 $\mathrm{QB}_{214} = 2017\ \mathrm{HS}_{16}$
2014 $\mathrm{QL}_{221} = 2021\ \mathrm{PB}_{21}$
2014 $\mathrm{QZ}_{226} = 2010\ \mathrm{RC}_{30} = 2010\ \mathrm{RQ}_{163}$
2014 $\mathrm{QC}_{236} = 2007\ \mathrm{TR}_{498}$
2014 $\mathrm{QV}_{238} = 2021\ \mathrm{QT}_{21}$
2014 $\mathrm{QX}_{238} = 2009\ \mathrm{WV}_{297} = 2010\ \mathrm{BF}_{36}$
2014 $\mathrm{QC}_{293} = 2009\ \mathrm{WQ}_{297} = 2010\ \mathrm{BU}_{27}$
2014 $\mathrm{QN}_{299} = 2021\ \mathrm{PP}_{21}$
2014 $\mathrm{QJ}_{319} = 2021\ \mathrm{NR}_{33}$
2014 $\mathrm{QS}_{331} = 2021\ \mathrm{MB}_{12}$
2014 $\mathrm{QH}_{339} = 2021\ \mathrm{QT}_{26}$
2014 $\mathrm{QY}_{368} = 2021\ \mathrm{NC}_{9}$
2014 $\mathrm{QM}_{382} = 2021\ \mathrm{PJ}_{61}$
2014 $\mathrm{QH}_{383} = 2021\ \mathrm{PT}_{10}$
2014 $\mathrm{QR}_{392} = 2021\ \mathrm{OV}_{16}$
2014 $\mathrm{QZ}_{430} = 2021\ \mathrm{NC}_{44}$
2014 $\mathrm{QV}_{459} = 2010\ \mathrm{VF}_{94} = 2010\ \mathrm{VL}_{269}$
2014 $\mathrm{QT}_{465} = 2010\ \mathrm{WZ}_{79}$
2014 $\mathrm{QW}_{480} = 2019\ \mathrm{AH}_{87}$
2014 $\mathrm{QE}_{488} = 2021\ \mathrm{PM}_{46}$
2014 $\mathrm{QO}_{523} = 2010\ \mathrm{VP}_{268}$
2014 $\mathrm{QK}_{524} = 2010\ \mathrm{UP}_{86}$
2014 $\mathrm{QA}_{542} = 2012\ \mathrm{FW}_{109}$
2014 $\mathrm{QG}_{546} = 2010\ \mathrm{BY}_{138}$
2014 $\mathrm{QE}_{557} = 2014\ \mathrm{SY}_{241}$
2014 $\mathrm{QD}_{558} = 2007\ \mathrm{UZ}_{162} = 2010\ \mathrm{PN}_{5}$
2014 $\mathrm{QT}_{561} = 2016\ \mathrm{AG}_{40}$
2014 $\mathrm{QV}_{561} = 2014\ \mathrm{SP}_{63}$
2014 $\mathrm{QE}_{562} = 2010\ \mathrm{PY}_{82}$
2014 $\mathrm{QG}_{562} = 2016\ \mathrm{SX}_{56}$
2014 $\mathrm{RR}_{22} = 2021\ \mathrm{OB}_{7}$
2014 $\mathrm{RL}_{27} = 2021\ \mathrm{PG}_{67}$
2014 $\mathrm{RL}_{60} = 2021\ \mathrm{OS}_{15}$
2014 $\mathrm{RP}_{64} = 2017\ \mathrm{FO}_{70}$
2014 $\mathrm{SU}_{7} = 2005\ \mathrm{TO}_{220}$
2014 $\mathrm{SP}_{34} = 2021\ \mathrm{PT}_{56}$
2014 $\mathrm{SQ}_{44} = 2021\ \mathrm{PD}_{51}$
2014 $\mathrm{ST}_{44} = 2021\ \mathrm{OY}_{12}$
2014 $\mathrm{SW}_{50} = 2006\ \mathrm{CL}_{75} = 2009\ \mathrm{UO}_{104}$
2014 $\mathrm{SD}_{57} = 2021\ \mathrm{QP}_{34}$
2014 $\mathrm{SZ}_{89} = 2014\ \mathrm{SL}_{402}$
2014 $\mathrm{SX}_{90} = 2009\ \mathrm{FW}_{77}$
2014 $\mathrm{SP}_{98} = 2003\ \mathrm{UQ}_{448}$
2014 $\mathrm{SR}_{109} = 2014\ \mathrm{RO}_{58}$
2014 $\mathrm{SH}_{116} = 2021\ \mathrm{NP}_{19}$
2014 $\mathrm{SN}_{120} = 2010\ \mathrm{RU}_{216}$
2014 $\mathrm{SE}_{124} = 2009\ \mathrm{OM}_{7} = 2012\ \mathrm{FR}_{20}$
2014 $\mathrm{SK}_{128} = 2014\ \mathrm{SH}_{402}$
2014 $\mathrm{SR}_{128} = 2021\ \mathrm{JF}_{56}$
2014 $\mathrm{SV}_{128} = 2014\ \mathrm{SN}_{402}$
2014 $\mathrm{SH}_{134} = 2021\ \mathrm{NQ}_{34}$
2014 $\mathrm{SM}_{176} = 2018\ \mathrm{VT}_{109} = 2018\ \mathrm{WW}_{9}$
2014 $\mathrm{SW}_{187} = 2021\ \mathrm{RP}_{17}$
2014 $\mathrm{SZ}_{194} = 2021\ \mathrm{QD}_{10}$
2014 $\mathrm{SX}_{229} = 2021\ \mathrm{LG}_{33}$
2014 $\mathrm{SK}_{249} = 2010\ \mathrm{CF}_{262}$
2014 $\mathrm{SY}_{306} = 2014\ \mathrm{SF}_{206} = 2021\ \mathrm{PH}_{36}$
2014 $\mathrm{SE}_{314} = 2005\ \mathrm{TJ}_{145}$
2014 $\mathrm{SB}_{330} = 2021\ \mathrm{PG}_{14}$
2014 $\mathrm{SD}_{349} = 2014\ \mathrm{WX}_{510} = 2021\ \mathrm{OF}_{5}$
2014 $\mathrm{SQ}_{358} = 2014\ \mathrm{TP}_{114}$
2014 $\mathrm{SO}_{360} = 2009\ \mathrm{SD}_{372} = 2009\ \mathrm{SR}_{418}$
2014 $\mathrm{SS}_{360} = 2006\ \mathrm{UM}_{391}$
2014 $\mathrm{SK}_{368} = 2021\ \mathrm{PG}_{79}$
2014 $\mathrm{SM}_{394} = 2010\ \mathrm{FY}_{123}$
2014 $\mathrm{SO}_{394} = 2021\ \mathrm{PW}_{71}$
2014 $\mathrm{SN}_{398} = 2010\ \mathrm{BL}_{152}$
2014 $\mathrm{TF}_{11} = 2021\ \mathrm{PD}_{94}$
2014 $\mathrm{TU}_{11} = 2014\ \mathrm{UH}_{276}$
2014 $\mathrm{TU}_{22} = 2021\ \mathrm{MX}_{13}$
2014 $\mathrm{TK}_{65} = 2007\ \mathrm{WM}_{74} = 2013\ \mathrm{HR}_{91}$
2014 $\mathrm{TC}_{101} = 2014\ \mathrm{UM}_{59}$
2014 $\mathrm{UE}_{2} = 2005\ \mathrm{UA}_{554}$
2014 $\mathrm{UD}_{32} = 2021\ \mathrm{NM}_{48}$
2014 $\mathrm{UL}_{37} = 2014\ \mathrm{UD}_{108}$

2014 UJ_{38} = 2021 QD_{24}
2014 UK_{59} = 2014 UT_{154}
2014 UN_{59} = 2014 UZ_{275}
2014 UJ_{62} = 2008 VC_{105} = 2010 HD_{60}
2014 UZ_{72} = 2021 PG_{29}
2014 UO_{77} = 2014 VH_{43}
2014 UN_{86} = 2014 TQ_{114}
2014 UB_{93} = 2014 WM_{600}
2014 UP_{107} = 2010 RL_{63} = 2017 HU_{41}
2014 UZ_{125} = 2021 ND_{14}
2014 UD_{129} = 2014 SG_{351}
2014 UV_{135} = 2014 UR_{197}
2014 UJ_{147} = 2017 KQ_{7}
2014 UB_{188} = 2014 WX_{62} = 2021 NC_{22}
2014 UY_{189} = 2021 NX_{27}
2014 UA_{191} = 2021 PB_{48}
2014 UR_{217} = 2003 QT_{8} = 2010 BW_{107}
2014 UQ_{230} = 2010 HN_{4} = 2017 DR_{143}
2014 UA_{260} = 2014 WK_{600}
2014 UL_{263} = 2014 UA_{276}
2014 UW_{276} = 2016 SP_{57}
2014 UY_{276} = 2016 SW_{56}
2014 VS_{7} = 2014 WS_{600}
2014 VK_{23} = 2018 VN_{52} = 2018 WV_{9}
2014 VX_{36} = 2014 UC_{276}
2014 VB_{37} = 2010 VC_{269}
2014 WD_{1} = 2021 NO_{34}
2014 WU_{8} = 2021 QO_{32}
2014 WR_{31} = 2021 PM_{7}
2014 WP_{47} = 2010 VW_{268}
2014 WF_{65} = 2010 RG_{216}
2014 WL_{97} = 2014 WW_{599}
2014 WA_{107} = 2014 WK_{568}
2014 WO_{112} = 2010 LC_{150}
2014 WZ_{117} = 2021 NO_{23}
2014 WP_{124} = 2014 WP_{568}
2014 WE_{127} = 2014 WB_{311}
2014 WX_{149} = 2021 OE_{14}
2014 WU_{173} = 2019 AS_{87}
2014 WJ_{179} = 2021 OG_{14}
2014 WE_{207} = 2014 WU_{222}
2014 WS_{208} = 2010 GA_{14} = 2014 WP_{600} = 2016 DV_{4}
2014 WS_{209} = 2021 PO_{72}
2014 WL_{213} = 2010 XY_{117} = 2014 WG_{353}
2014 WP_{225} = 2014 WC_{594}
2014 WR_{230} = 2016 AA_{341}
2014 WM_{372} = 2010 CL_{130} = 2014 UB_{122} = 2016 AH_{120}
2014 WH_{375} = 2014 WW_{432}
2014 WG_{385} = 2010 GD_{183}
2014 WC_{410} = 2019 AT_{39}
2014 WM_{411} = 2010 KZ_{146} = 2021 OX_{2}
2014 WZ_{411} = 2021 PA_{40}
2014 WR_{448} = 2008 UR_{103}
2014 WD_{451} = 2021 NY_{35}
2014 WM_{462} = 2021 NU_{45}
2014 WM_{470} = 2014 WJ_{125}
2014 WJ_{471} = 2014 WJ_{600}
2014 WA_{476} = 2007 TS_{83}
2014 WZ_{518} = 2014 WR_{600}
2014 WO_{559} = 2014 WH_{600}
2014 WF_{569} = 2011 GN_{105}
2014 WZ_{574} = 2014 WG_{600}
2014 WO_{584} = 2014 WE_{600}
2014 WW_{589} = 2015 BW_{561}
2014 WN_{594} = 2019 FU_{26}
2014 WS_{598} = 2016 HS_{34}
2014 XL_{11} = 2010 RK_{141}
2014 XC_{30} = 2016 GX_{161}
2014 YH_{37} = 2015 BV_{98}
2014 YL_{74} = 2015 CG_{79}
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2014 YN_{85} = 2010 MU_{130}
2014 YK_{86} = 2010 AG_{90} = 2010 MB_{144}
2014 YG_{89} = 2010 AR_{151} = 2010 NV_{123}
2014 YS_{91} = 2010 EG_{179}
2014 YW_{91} = 2016 ST_{58}
2015 AC_{55} = 2016 GA_{308}
2015 AQ_{77} = 2011 CZ_{54}
2015 AX_{81} = 2021 EU_{46}
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2015 AQ_{196} = 2017 PS_{64}
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2015 AS_{235} = 2010 MG_{120}
2015 AK_{239} = 2011 DO_{38}
2015 AQ_{258} = 2014 WU_{370}
2015 AG_{268} = 2004 XT_{194}
2015 AB_{273} = 2021 NS_{34}
2015 AK_{295} = 2010 FU_{145}
2015 BE_{25} = 2021 FZ_{46}
2015 BV_{34} = 2015 BD_{357}
2015 BE_{63} = 2015 DU_{296}
2015 BF_{74} = 2017 SK_{272}
2015 BH_{80} = 2021 PX_{88}
2015 BS_{95} = 2013 UX_{28}
2015 BA_{131} = 1999 FJ_{67} = 2007 TW_{498}
2015 BZ_{145} = 2015 BT_{147}
2015 BB_{149} = 2017 SJ_{267}
2015 BA_{211} = 2010 TG_{226}
2015 BS_{219} = 2006 BZ_{301}
2015 BB_{227} = 2018 PN_{58}
2015 BP_{268} = 2010 JS_{180}
2015 BO_{275} = 2021 NG_{20}
2015 BL_{283} = 2020 JS_{34}

2015 BH_{330} = 2011 ED_{109}
2015 BC_{352} = 2010 VZ_{267}
2015 BZ_{382} = 2017 SR_{278}
2015 BR_{387} = 2017 XD_{10}
2015 BA_{399} = 2020 GD_{27}
2015 BG_{408} = 2005 VP_{141}
2015 BE_{421} = 2021 RE_{17}
2015 BR_{493} = 2004 PU_{113}
2015 BR_{494} = 2006 WL_{235}
2015 BK_{506} = 2010 VS_{268}
2015 BY_{507} = 2021 NA_{31}
2015 BD_{523} = 2019 VK_{33}
2015 BE_{524} = 2016 GM_{309}
2015 BJ_{528} = 2011 BL_{189}
2015 BG_{603} = 2010 VA_{269}
2015 BR_{604} = 2008 TR_{229}
2015 BO_{605} = 2010 LX_{146}
2015 BV_{617} = 2015 FH_{316}
2015 CL_{7} = 2015 CB_{73}
2015 DN_{135} = 2010 GM_{44} = 2015 EN_{78}
2015 DK_{280} = 2015 EY_{68} = 2021 EF_{37}
2015 DE_{284} = 2010 NF_{110}
2015 DZ_{285} = 2010 DB_{95}
2015 DD_{291} = 2010 KE_{131}
2015 DK_{291} = 2010 MX_{129}
2015 DT_{296} = 2019 AM_{40}
2015 EV_{47} = 2019 AP_{86}
2015 EL_{78} = 2010 HE_{118}
2015 FS_{28} = 2020 HZ_{121}
2015 FJ_{31} = 2021 LX_{25}
2015 FF_{59} = 2010 CS_{232} = 2010 OE_{50}
2015 FJ_{60} = 2010 JN_{189}
2015 FR_{62} = 2021 QB_{31}
2015 FQ_{68} = 2010 GJ_{186}
2015 FU_{100} = 2019 CE_{19}
2015 FY_{113} = 2021 PL_{29}
2015 FB_{132} = 2010 NU_{123}
2015 FE_{181} = 2017 SM_{277}
2015 FS_{184} = 2021 QG_{38}
2015 FZ_{186} = 2021 NE_{9}
2015 FS_{254} = 2012 SV_{12}
2015 FG_{272} = 2017 UX_{150}
2015 FO_{272} = 2017 SO_{265}
2015 FE_{279} = 2010 OH_{145}
2015 FH_{282} = 2017 RU_{136}
2015 FM_{348} = 2010 DL_{101}
2015 FA_{350} = 2016 PS_{45}
2015 FV_{370} = 2011 QV_{90}
2015 FE_{441} = 2010 FT_{49} = 2021 MA_{8}
2015 FO_{444} = 2010 JN_{208}
2015 FE_{449} = 2010 GX_{181}
2015 FL_{449} = 2010 OJ_{150}
2015 GU_{67} = 2010 GW_{194}
2015 HU_{66} = 2019 GL_{115}
2015 HJ_{134} = 2016 UV_{239}
2015 HD_{142} = 2021 PY_{17}
2015 HL_{220} = 2010 HN_{118}
2015 KH_{41} = 2007 VA_{115}
2015 KV_{71} = 2021 NS_{23}
2015 KU_{78} = 2021 QK_{17}
2015 KB_{86} = 2016 TX_{165} = 2016 TL_{73}
2015 KG_{96} = 2016 PR_{216}
2015 KU_{156} = 2021 PS_{29}
2015 KD_{202} = 2010 LE_{140}
2015 LB_{18} = 2021 PH_{84}
2015 LV_{29} = 2010 LF_{56} = 2013 YZ_{68}
2015 LY_{48} = 2016 UY_{38}
2015 LH_{57} = 2016 UL_{243}
2015 MM_{3} = 2021 NK_{43}
2015 MS_{29} = 2021 PY_{8}
2015 MY_{42} = 2010 GB_{177}
2015 MN_{86} = 2010 LK_{115} = 2020 KA_{38}
2015 MQ_{99} = 2021 PD_{28}
2015 MZ_{124} = 2010 NO_{125}
2015 MU_{182} = 2010 NT_{139}
2015 MY_{182} = 2010 MB_{122}
2015 MP_{185} = 2010 OD_{132}
2015 NJ_{4} = 2021 QG_{7}
2015 NE_{26} = 2021 MH_{13}
2015 NC_{33} = 2021 MV_{15}
2015 OT_{3} = 2020 HF_{125}
2015 OL_{61} = 2010 MF_{143}
2015 OU_{149} = 2010 MS_{133}
2015 OB_{150} = 2010 OR_{143}
2015 OA_{153} = 2010 NB_{133}
2015 PG_{19} = 2010 NR_{145}
2015 PG_{20} = 2010 KV_{155}
2015 PZ_{27} = 2010 MS_{146}
2015 PW_{86} = 2021 PJ_{72}
2015 PP_{98} = 2010 ND_{20} = 2021 PL_{71}
2015 PA_{100} = 2021 PO_{71}
2015 PL_{111} = 2021 RP_{21}
2015 PQ_{114} = 2021 QA_{40}
2015 PL_{120} = 2021 QO_{26}
2015 PT_{145} = 2010 TJ_{105}
2015 PL_{157} = 2021 PV_{61}
2015 PK_{193} = 2009 FJ_{81}
2015 PS_{201} = 2010 NY_{123}
2015 PL_{235} = 2010 ML_{137}
2015 PM_{240} = 2021 QV_{14}
2015 PA_{243} = 2021 QL_{38}
2015 PZ_{249} = 2019 GU_{117}
2015 PV_{251} = 2021 PL_{30}
2015 RG_{4} = 2010 MA_{125} = 2010 SC_{38}

2015 $\mathrm{RJ}_{155} = 2021\ \mathrm{QF}_{30}$
2015 $\mathrm{RU}_{173} = 2019\ \mathrm{JQ}_{39}$
2015 $\mathrm{RM}_{201} = 2015\ \mathrm{RM}_{345}$
2015 $\mathrm{RC}_{212} = 2010\ \mathrm{NV}_{127}$
2015 $\mathrm{RT}_{345} = 2015\ \mathrm{TD}_{165}$
2015 $\mathrm{SH}_{8} = 2019\ \mathrm{KH}_{49}$
2015 $\mathrm{TJ}_{3} = 2021\ \mathrm{PN}_{3}$
2015 $\mathrm{TU}_{182} = 2010\ \mathrm{MH}_{132}$
2015 $\mathrm{TY}_{360} = 2013\ \mathrm{RJ}_{157}$
2015 $\mathrm{TA}_{361} = 2013\ \mathrm{TO}_{227}$
2015 $\mathrm{TC}_{361} = 2013\ \mathrm{VP}_{71}$
2015 $\mathrm{TJ}_{361} = 2014\ \mathrm{TE}_{115}$
2015 $\mathrm{TP}_{361} = 2014\ \mathrm{TF}_{115}$
2015 $\mathrm{TR}_{361} = 2014\ \mathrm{TZ}_{114}$
2015 $\mathrm{TV}_{361} = 2013\ \mathrm{TW}_{227}$
2015 $\mathrm{TF}_{362} = 2013\ \mathrm{RK}_{157}$
2015 $\mathrm{TG}_{362} = 2013\ \mathrm{VN}_{71}$
2015 $\mathrm{TR}_{370} = 2006\ \mathrm{FP}_{61}$
2015 $\mathrm{TN}_{430} = 2009\ \mathrm{SK}_{320} = 2009\ \mathrm{SS}_{418}$
2015 $\mathrm{TD}_{454} = 2015\ \mathrm{TX}_{34}$
2015 $\mathrm{VQ}_{101} = 2010\ \mathrm{VQ}_{268}$
2015 $\mathrm{WO}_{17} = 2004\ \mathrm{HZ}_{75} = 2010\ \mathrm{RM}_{23} = 2010\ \mathrm{RN}_{24} = 2010\ \mathrm{RK}_{216}$
2015 $\mathrm{WK}_{32} = 2010\ \mathrm{HT}_{124}$
2015 $\mathrm{XU}_{5} = 2015\ \mathrm{WM}_{36}$
2015 $\mathrm{XZ}_{89} = 2017\ \mathrm{AW}_{47}$
2015 $\mathrm{XV}_{270} = 2011\ \mathrm{UW}_{477}$
2015 $\mathrm{XN}_{299} = 2005\ \mathrm{JY}_{120} = 2010\ \mathrm{HP}_{102} = 2010\ \mathrm{JA}_{188}$
2015 $\mathrm{XO}_{458} = 2009\ \mathrm{WG}_{298}$
2015 $\mathrm{XX}_{475} = 2010\ \mathrm{CV}_{255}$
2016 $\mathrm{AX}_{69} = 2019\ \mathrm{SD}_{183}$
2016 $\mathrm{AV}_{299} = 2016\ \mathrm{CC}_{138}$
2016 $\mathrm{AO}_{346} = 2010\ \mathrm{FJ}_{129}$
2016 $\mathrm{AN}_{351} = 2010\ \mathrm{HD}_{127}$
2016 $\mathrm{AS}_{354} = 2019\ \mathrm{SV}_{108}$
2016 $\mathrm{AZ}_{354} = 2016\ \mathrm{CZ}_{103}$
2016 $\mathrm{CO}_{27} = 1994\ \mathrm{EX}_{7} = 2005\ \mathrm{EA}_{278} = 2011\ \mathrm{JU}_{9}$
2016 $\mathrm{CU}_{72} = 2010\ \mathrm{FD}_{132}$
2016 $\mathrm{CF}_{84} = 2021\ \mathrm{NF}_{10}$
2016 $\mathrm{CV}_{159} = 2021\ \mathrm{ES}_{33} = 2007\ \mathrm{BB}_{94}$
2016 $\mathrm{CY}_{340} = 2002\ \mathrm{FO}_{44}$
2016 $\mathrm{CX}_{377} = 2021\ \mathrm{KA}_{16}$
2016 $\mathrm{DO}_{42} = 2010\ \mathrm{JR}_{189}$
2016 $\mathrm{EU}_{26} = 2010\ \mathrm{KG}_{136}$
2016 $\mathrm{EO}_{33} = 2021\ \mathrm{NE}_{5}$
2016 $\mathrm{ER}_{56} = 2010\ \mathrm{EB}_{174}$
2016 $\mathrm{EX}_{62} = 2021\ \mathrm{LJ}_{22}$
2016 $\mathrm{EA}_{63} = 2010\ \mathrm{KK}_{141}$
2016 $\mathrm{ER}_{168} = 2008\ \mathrm{DS}_{98}$
2016 $\mathrm{GG}_{3} = 2017\ \mathrm{SG}_{263}$
2016 $\mathrm{GW}_{47} = 2021\ \mathrm{FJ}_{47}$
2016 $\mathrm{GC}_{57} = 2017\ \mathrm{QU}_{127}$
2016 $\mathrm{GN}_{102} = 2016\ \mathrm{EM}_{309}$
2016 $\mathrm{GF}_{116} = 2010\ \mathrm{EY}_{191}$
2016 $\mathrm{GU}_{241} = 1994\ \mathrm{NX}_{2} = 2008\ \mathrm{CW}_{246}$
2016 $\mathrm{GC}_{305} = 2020\ \mathrm{HB}_{55}$
2016 $\mathrm{GL}_{305} = 2010\ \mathrm{ME}_{137} = 2015\ \mathrm{BY}_{388}$
2016 $\mathrm{GG}_{309} = 2017\ \mathrm{SC}_{101}$
2016 $\mathrm{HV}_{13} = 2021\ \mathrm{MS}_{14}$
2016 $\mathrm{KN}_{13} = 2010\ \mathrm{OR}_{150}$
2016 $\mathrm{LA}_{15} = 2010\ \mathrm{BF}_{17} = 2010\ \mathrm{NZ}_{128} = 2010\ \mathrm{NL}_{130}$
2016 $\mathrm{LL}_{16} = 2021\ \mathrm{PB}_{80}$
2016 $\mathrm{LX}_{44} = 2021\ \mathrm{NP}_{33}$
2016 $\mathrm{LM}_{67} = 2010\ \mathrm{MC}_{133}$
2016 $\mathrm{LP}_{83} = 2009\ \mathrm{SX}_{418}$
2016 $\mathrm{LS}_{84} = 2021\ \mathrm{NW}_{30}$
2016 $\mathrm{NX}_{23} = 2010\ \mathrm{VP}_{144}$
2016 $\mathrm{NZ}_{26} = 2010\ \mathrm{HW}_{127}$
2016 $\mathrm{NM}_{51} = 2016\ \mathrm{PA}_{166}$
2016 $\mathrm{NM}_{64} = 2021\ \mathrm{NK}_{22}$
2016 $\mathrm{NF}_{120} = 2005\ \mathrm{TJ}_{220}$
2016 $\mathrm{NY}_{141} = 2010\ \mathrm{HA}_{121}$
2016 $\mathrm{NL}_{143} = 2011\ \mathrm{SO}_{236}$
2016 $\mathrm{OC}_{6} = 2021\ \mathrm{ML}_{7}$
2016 $\mathrm{PM}_{49} = 2021\ \mathrm{JT}_{52}$
2016 $\mathrm{PK}_{77} = 2021\ \mathrm{NK}_{24}$
2016 $\mathrm{PM}_{78} = 2021\ \mathrm{NP}_{47}$
2016 $\mathrm{PN}_{83} = 2005\ \mathrm{TG}_{220}$
2016 $\mathrm{PJ}_{86} = 2010\ \mathrm{NG}_{114}$
2016 $\mathrm{PJ}_{197} = 2010\ \mathrm{GK}_{189}$
2016 $\mathrm{PM}_{202} = 2010\ \mathrm{DB}_{100}$
2016 $\mathrm{PJ}_{203} = 2010\ \mathrm{HR}_{125}$
2016 $\mathrm{PH}_{212} = 2014\ \mathrm{EK}_{96}$
2016 $\mathrm{QJ}_{22} = 2021\ \mathrm{OK}_{3}$
2016 $\mathrm{QW}_{36} = 2009\ \mathrm{GM}_{4}$
2016 $\mathrm{QN}_{126} = 2010\ \mathrm{KQ}_{147}$
2016 $\mathrm{QL}_{127} = 2010\ \mathrm{NA}_{134}$
2016 $\mathrm{QQ}_{128} = 2010\ \mathrm{HZ}_{119}$
2016 $\mathrm{QW}_{129} = 2014\ \mathrm{EG}_{87}$
2016 $\mathrm{QA}_{131} = 2016\ \mathrm{SA}_{13}$
2016 $\mathrm{QK}_{131} = 2011\ \mathrm{UG}_{477}$
2016 $\mathrm{QS}_{131} = 2017\ \mathrm{XE}_{77}$
2016 $\mathrm{RC}_{21} = 2018\ \mathrm{AW}_{47}$
2016 $\mathrm{RJ}_{37} = 2021\ \mathrm{PO}_{90}$
2016 $\mathrm{RE}_{41} = 2010\ \mathrm{KY}_{136}$
2016 $\mathrm{RG}_{78} = 2010\ \mathrm{FF}_{126}$
2016 $\mathrm{RM}_{79} = 2020\ \mathrm{HP}_{46}$
2016 $\mathrm{RT}_{81} = 2014\ \mathrm{EY}_{132}$
2016 $\mathrm{RA}_{82} = 2016\ \mathrm{SR}_{57}$
2016 $\mathrm{SR}_{6} = 2021\ \mathrm{ON}_{9}$
2016 $\mathrm{SC}_{30} = 2010\ \mathrm{KH}_{154}$
2016 $\mathrm{SS}_{84} = 2010\ \mathrm{KW}_{146}$
2016 $\mathrm{SZ}_{96} = 2010\ \mathrm{JR}_{196}$
2016 $\mathrm{SR}_{101} = 2010\ \mathrm{JK}_{195}$
2016 $\mathrm{SG}_{103} = 2010\ \mathrm{KR}_{142}$

2016 $TW_{14} = 2021\ QG_{34}$
2016 $TA_{23} = 2005\ MD_{55} = 2010\ FK_{114}$
2016 $TO_{23} = 2021\ QQ_{8}$
2016 $TJ_{69} = 2010\ KF_{156}$
2016 $TR_{106} = 2021\ NL_{43}$
2016 $TA_{168} = 2010\ MU_{119}$
2016 $TT_{169} = 2020\ HA_{73}$
2016 $TD_{173} = 2010\ MD_{122}$
2016 $TT_{173} = 2010\ KM_{133}$
2016 $TZ_{174} = 2010\ KN_{148}$
2016 $TC_{175} = 2010\ MW_{120}$
2016 $UH_{5} = 2016\ UL_{271}$
2016 $UJ_{29} = 2021\ MN_{15}$
2016 $UO_{69} = 2021\ PE_{82}$
2016 $UJ_{82} = 2021\ PH_{39}$
2016 $UQ_{96} = 2021\ PH_{74}$
2016 $UR_{96} = 2021\ PC_{22}$
2016 $UX_{108} = 2021\ QN_{28}$
2016 $UV_{115} = 2011\ YC_{2}$
2016 $UJ_{117} = 2018\ BJ_{29}$
2016 $UF_{122} = 2011\ UH_{477} = 2018\ AR_{43}$
2016 $UT_{125} = 2021\ RX_{16}$
2016 $US_{165} = 2016\ UT_{169}$
2016 $UD_{178} = 2021\ PG_{63}$
2016 $UN_{186} = 2016\ UQ_{271} = 2021\ BD_{7}$
2016 $UK_{199} = 2010\ KO_{144}$
2016 $UZ_{233} = 2021\ PL_{12}$
2016 $UY_{237} = 2021\ PR_{52}$
2016 $UH_{266} = 2016\ UV_{158}$
2016 $UK_{266} = 2016\ WJ_{74}$
2016 $UZ_{268} = 2010\ RJ_{216}$
2016 $UL_{270} = 2010\ OE_{134}$
2016 $UZ_{270} = 2010\ JL_{203}$
2016 $UM_{273} = 2014\ EE_{81}$
2016 $VT_{23} = 2021\ PN_{87}$
2016 $VQ_{25} = 2020\ WF_{18}$
2016 $VX_{49} = 2010\ MC_{128}$
2016 $VF_{50} = 2010\ JQ_{194}$
2016 $WJ_{19} = 2021\ PM_{78}$
2016 $WF_{21} = 2021\ PE_{72}$
2016 $WX_{26} = 2021\ OO_{7}$
2016 $WP_{40} = 2021\ LN_{29}$
2016 $WH_{67} = 2003\ SN_{473}$
2016 $WO_{73} = 2010\ OC_{137}$
2016 $WA_{74} = 2010\ OT_{146} = 2015\ TL_{181}$
2016 $WR_{74} = 2010\ OO_{130}$
2016 $XK_{34} = 2010\ MO_{145}$
2016 $YD_{28} = 2010\ NZ_{129}$
2017 $AM_{40} = 2011\ SZ_{335}$
2017 $BA_{68} = 2008\ TQ_{229}$
2017 $BG_{94} = 2005\ TT_{220}$
2017 $BF_{189} = 2010\ BR_{55} = 2010\ NJ_{134}$
2017 $CZ_{7} = 2008\ UT_{416} = 2021\ GS_{158}$
2017 $CM_{11} = 2021\ PW_{34}$
2017 $DS_{46} = 2020\ XW_{19}$
2017 $DM_{71} = 2021\ HL_{26}$
2017 $EB_{38} = 2010\ NX_{128}$
2017 $FT_{116} = 2019\ SH_{119}$
2017 $FP_{122} = 2021\ PX_{22}$
2017 $FC_{144} = 2017\ HF_{85}$
2017 $HD_{75} = 2017\ GB_{25}$
2017 $MP_{23} = 2010\ KB_{135}$
2017 $OY_{41} = 2021\ PO_{58}$
2017 $OJ_{113} = 2007\ LN_{35}$
2017 $OW_{126} = 2015\ EJ_{58}$
2017 $PB_{38} = 2021\ PM_{55}$
2017 $PB_{48} = 2021\ NU_{31}$
2017 $PO_{61} = 2010\ OK_{144}$
2017 $QM_{27} = 2021\ PO_{35}$
2017 $QF_{47} = 2010\ BM_{142} = 2010\ NJ_{74}$
2017 $QL_{59} = 2017\ QA_{116}$
2017 $QQ_{61} = 2021\ PR_{31}$
2017 $QA_{113} = 2010\ LR_{140}$
2017 $QE_{119} = 2010\ DJ_{103}$
2017 $QG_{129} = 2013\ TU_{226}$
2017 $RM_{47} = 2021\ PO_{66}$
2017 $RW_{47} = 2021\ JM_{53}$
2017 $RU_{63} = 2021\ PF_{88}$
2017 $RV_{127} = 2010\ JU_{206} = 2021\ FO_{8}$
2017 $RD_{131} = 2017\ UH_{150}$
2017 $RF_{132} = 2010\ DY_{105}$
2017 $RD_{134} = 2019\ JH_{75}$
2017 $SG_{32} = 2021\ PC_{36}$
2017 $SC_{75} = 2010\ MR_{128}$
2017 $SC_{76} = 2021\ OL_{8}$
2017 $SZ_{99} = 2020\ KL_{38}$
2017 $SA_{104} = 2021\ NQ_{39}$
2017 $SP_{106} = 2021\ QN_{35}$
2017 $SB_{222} = 2010\ OL_{147} = 2021\ GS_{156}$
2017 $SJ_{255} = 2010\ DY_{99}$
2017 $SL_{261} = 2021\ PN_{41}$
2017 $SL_{271} = 2010\ CC_{270}$
2017 $TQ_{1} = 2021\ PW_{80}$
2017 $TW_{38} = 2010\ CJ_{265}$
2017 $TG_{39} = 2000\ RU_{107}$
2017 $TY_{40} = 2010\ GF_{184}$
2017 $UO_{37} = 2010\ CG_{271}$
2017 $UR_{48} = 2021\ NH_{41}$
2017 $UE_{82} = 2010\ GV_{98} = 2010\ JQ_{172}$
2017 $UB_{155} = 2008\ UF_{411}$
2017 $UD_{155} = 2008\ SW_{251}$
2017 $VZ_{20} = 2021\ PK_{30}$
2017 $VV_{38} = 2010\ DS_{104}$
2017 $VG_{54} = 2012\ VF_{132}$

2017 XA_{42} = 2021 PA_{12}
2017 YY_{38} = 2010 KQ_{153}
2018 AP = 2021 PQ_{79}
2018 AQ_{32} = 2010 EZ_{93} = 2010 GL_{208}
2018 AU_{44} = 2010 BB_{148}
2018 BR_{5} = 2021 MW_{10}
2018 FJ_{44} = 2004 PQ_{110} = 2010 GJ_{190}
2018 FF_{45} = 2010 DM_{101}
2018 HC_{5} = 2010 GL_{182}
2018 MX_{20} = 2017 DL_{143}
2018 NP_{35} = 2010 OX_{137}
2018 OY_{1} = 2021 JH_{8}
2018 PA_{56} = 2010 BF_{146}
2018 PG_{57} = 2010 SY_{60}
2018 PP_{63} = 2021 JD_{41}
2018 QO_{15} = 2010 GF_{179}
2018 RV_{53} = 2015 FS_{378}
2018 RL_{58} = 2015 TO_{144}
2018 UA_{24} = 2021 PQ_{40}
2018 VG_{47} = 2008 TH_{184} = 2021 PR_{32}
2018 VT_{70} = 2021 PN_{52}
2018 VO_{95} = 2012 UD_{236}
2018 VV_{103} = 2021 PC_{41}
2018 VC_{127} = 2021 NB_{24}
2018 VY_{138} = 2010 EE_{147} = 2015 GR_{10}
2018 VS_{144} = 2010 BZ_{135}
2018 VL_{146} = 2020 BW_{21}
2018 VJ_{147} = 2010 LX_{149}
2018 VQ_{147} = 2010 CW_{262}
2019 AV_{86} = 2010 OZ_{149}
2019 GR_{67} = 2016 UU_{128}
2019 GY_{100} = 2012 UJ_{236}
2019 GP_{114} = 2010 OW_{132}
2019 HK_{11} = 2015 FA_{450}
2019 JH_{104} = 2016 US_{184}
2019 NZ_{65} = 2010 PJ_{83}
2019 ND_{74} = 2010 ST_{60}
2019 PW_{64} = 2010 OQ_{131} = 2010 OW_{19}
2019 SN_{147} = 2008 RU_{124} = 2010 JK_{192}
2019 SB_{178} = 2010 CV_{253}
2019 UF_{49} = 2010 JF_{186}
2019 UU_{84} = 2010 GW_{189}
2019 UP_{123} = 2010 BO_{141}
2019 VO_{29} = 2000 GN_{189}
2019 VA_{33} = 2010 EQ_{176}
2019 XU_{11} = 2010 HJ_{132}
2020 BB_{6} = 2021 QM_{22}
2020 BX_{27} = 2010 KY_{155}
2020 BQ_{76} = 2010 KD_{148}
2020 BL_{87} = 2010 NR_{122}
2020 DO_{7} = 2010 PA_{43} = 2021 NX_{15}
2020 DE_{12} = 2010 EC_{180}
2020 FB_{37} = 2010 GN_{197}
2020 GW_{20} = 2021 QA_{22}
2020 HX_{75} = 2006 UJ_{339}
2020 HZ_{109} = 2021 PF_{21}
2020 HV_{110} = 2021 PH_{13}
2020 HV_{115} = 2009 SJ_{418}
2020 HO_{119} = 2010 HF_{132}
2020 HO_{120} = 2014 EA_{237}
2020 HB_{121} = 2011 TO_{22}
2020 HM_{124} = 2014 EU_{211}
2020 JK_{4} = 2010 MS_{122}
2020 JP_{34} = 2014 ED_{217}
2020 KQ_{23} = 2010 OE_{137}
2020 KT_{24} = 2010 NR_{131}
2020 PX_{51} = 2009 TF_{57}
2020 SY_{21} = 2010 TB_{227}
2020 SS_{82} = 2010 MN_{141}
2020 UA_{45} = 2010 TW_{107}
2021 AH_{24} = 2010 LE_{149}
2021 CO_{13} = 2010 JR_{181}
2021 CL_{25} = 2010 HR_{119}
2021 CE_{30} = 2010 HF_{121}
2021 CF_{31} = 2005 ER_{350}
2021 CS_{31} = 2010 LR_{137}
2021 EO_{20} = 2010 CZ_{257}
2021 EM_{42} = 2010 LZ_{140}
2021 FR_{17} = 2010 BX_{133} = 2010 NL_{86}
2021 FJ_{31} = 2010 LD_{151}
2021 FJ_{38} = 2006 CX_{74}
2021 GO_{5} = 2010 GO_{89} = 2015 FU_{16}
2021 GL_{44} = 2010 BQ_{133}
2021 GW_{44} = 2010 LQ_{148}
2021 GH_{60} = 2010 OX_{151}
2021 GO_{100} = 2007 EN_{242}
2021 GL_{106} = 2010 OE_{146}
2021 GK_{118} = 2010 JB_{182}
2021 GO_{133} = 2005 JJ_{9}
2021 JV_{12} = 2010 MT_{139}
2021 LY_{6} = 2010 CC_{191} = 2010 PA_{83}
2021 LK_{24} = 2010 JG_{198}
2021 LU_{26} = 2014 WJ_{149}
2021 MR = 2021 ON_{1}
2021 NL_{3} = 2010 HM_{125}
2021 NN_{16} = 2014 EC_{163}
2021 NR_{40} = 2016 GB_{59}
2021 OR_{7} = 2017 VS_{52}
2021 OY_{9} = 2010 OE_{145}
2021 PM_{9} = 2018 AV_{38}
2021 PQ_{12} = 2010 BE_{140}
2021 PZ_{91} = 2010 HG_{115}
2021 QD_{26} = 2017 UY_{89}
2021 QY_{31} = 2010 RO_{23}

2021 $\mathrm{RN}_{5} = 2021\ \mathrm{RJ}_{1}$

2021 $\mathrm{RN}_{9} = 2013\ \mathrm{HQ}_{156}$
2021 $\mathrm{RH}_{16} = 2010\ \mathrm{KX}_{148}$