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SONIA KEYS (1961-2018)

We are saddened to report that Sonia Keys died on 13 August 2018 at the age of 57, after a long struggle with cancer.

Sonia worked as a commercial software developer from 1983 to 2001 and then began working with the Astronomical Society of Kansas City, specializing in the tracking of Near-Earth Objects (NEOs). Her skill and reliability with NEO astrometry caught the attention of the Minor Planet Center (MPC), and that led to a position as an astronomer and software developer for the MPC.

As Kyle Smalley, she had served in the United States Navy's Nuclear Power Program, as an Electronics Technician and Reactor Operator aboard a submarine, and was honorably discharged in 1982. She then completed a bachelor of science degree in Mathematics and Computer Science at Central Missouri State University in 1986.

A few years after joining the MPC, Kyle made the profoundly brave decision to live, both personally and professionally, as Sonia Keys. This quiet but solid act exemplified the way she approached her work, with conviction and resolve.

Outside of the MPC, Sonia enjoyed programming (yes, she did it for fun!), photography and sailing on the Charles River. When weather or health conditions prevented her from sailing, she enjoyed watching televised yacht racing on the Internet.

Sonia was the conscience of the MPC. Her clarity of thought, her willingness to ask difficult questions, and her tenacity will be sorely missed.

EDITORIAL NOTICE

Contributors of perturbed orbital elements are advised that use of the epoch 2019 Apr. 27.0 TT (rather than 2018 Mar. 23.0 TT) will become effective *after* the publication of *this* batch of *Minor Planet Circulars*.

As part of the changes mentioned in the July 11 Editorial Notice, the Minor Planet Center is changing the way it announces new numberings of minor planets, without altering the criteria for numbering. This new method will be a great time saver for the MPC, and will enable numberings to occur more frequently, as well as allowing us to clear the backlog of numberings that were not possible previously because of the difficulty of determining who was the discoverer. Only NEAs and TNOs are being numbered in this batch.

ERRATA

MPC	Line	
53175	31	*For* (1896-1972) *read* (1896-1988) [(12775) citation]
103029	14	*For* Mayubosh *read* Mayuboshi [(6118) name]
106502	41	*For* "Tot" *read* "Totò" [(65821) citation]
107121	− 2	*For* Nationali *read* Nazionali [(268686) citation]
109163	−43	*For* (2017 Sept. 4.0 TT) *read* (2018 Mar. 23.0 TT)
109612	36	*For* (2017 Sept. 4.0 TT) *read* (2018 Mar. 23.0 TT)
109631	−21 to −16	Delete the name and citation for (31027)
110618	23	*For* (b. 1986) *read* (b. 1988) [(93256) citation]
110631	−23 to −18	Delete the name and citation for (34203)
110635	41	*For* Chichn Itza *read* Chichén Itzá [(100456) name]
110635	43	*For* Chichn Itza *read* Chichén Itzá [(100456) citation]
110637	−15	*For* Ocampo *read* Ocampo Uría [(177120) name]
110637	−17	*For* Ocampo *read* Ocampo Uría [(177120) citation]
110639	17	*For* Piet *read* Pietá [(274472) name]
110639	19	*For* Piet *read* Pietá [(274472) citation]

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 110131. 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	$\rho\cos\phi'$	$\rho\sin\phi'$	
L27	5.64704	0.720583	+0.691197	29PREMOTE Observatory, Dauban
L28	15.46339	0.758034	+0.650341	ISON-Castelgrande Observatory
L29	18.0169	0.91802	−0.39574	Drebach-South Observatory, Windhoek
L30	7.51469	0.624126	+0.778737	Lohbach Observatory, Benninghofen
L31	12.85615	0.632524	+0.772019	RaSo Observatory, Chemnitz
N43	77.1167	0.16712	−0.98328	Plateau Observatory for Dome A, Kunlun Station
U68	240.58701	0.799040	+0.599620	JPL SynTrack Robotic Telescope, Auberry
Z33	357.67331	0.787438	+0.614748	6ROADS Observatory 2, Nerpio

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
2001 QA_{143}	2018 09	11.79271	00 04 37.65	+23 26 19.9	*MPS* 914565	B67
2001 QA_{143}	2018 09	11.79809	00 04 37.69	+23 26 32.4	*MPS* 914565	B67
2001 QA_{143}	2018 09	11.80346	00 04 37.78	+23 26 44.9	*MPS* 914565	B67
2001 ST_{216}	2010 05	31.78169	22 54 42.76	−09 39 02.8	*MPS* 861712	C51
Geocentric position (km)		+	6098.4165	− 2895.1887	− 1481.1439	
2001 ST_{216}	2010 05	31.78182	22 54 42.78	−09 39 04.3	*MPS* 861712	C51
Geocentric position (km)		+	6077.1968	− 2897.5196	− 1561.9117	
2001 ST_{216}	2010 05	31.91399	22 54 49.74	−09 38 22.0	*MPS* 861712	C51
Geocentric position (km)		+	6105.6833	− 2881.2082	− 1478.1816	
2001 ST_{216}	2010 05	31.91412	22 54 49.86	−09 38 22.1	*MPS* 861712	C51

Geocentric position (km)	+ 6084.5014	− 2883.5975	− 1558.9581			
2001 ST_{216}	2010 05 31.98021	22 54 53.06	−09 38 02.6	*MPS* 861712		C51
Geocentric position (km)	+ 6099.1747	− 2875.4003	− 1516.8976			
2001 ST_{216}	2010 06 01.04630	22 54 56.62	−09 37 41.4	*MPS* 861712		C51
Geocentric position (km)	+ 6113.6037	− 2867.0753	− 1474.4701			
2001 UJ_{231}	*2001 10 16.30051	01 12 37.00	+01 05 31.0	*MPS* 309232		644
2001 UJ_{231}	2001 10 16.32163	01 12 35.86	+01 05 28.4	*MPS* 309232		644
2001 UJ_{231}	2001 10 16.34183	01 12 34.78	+01 05 25.8	*MPS* 309232		644
2001 UJ_{231}	2001 10 21.33360	01 08 23.16	+00 57 06.3	*MPS* 309232		644
2001 UJ_{231}	2001 10 21.35390	01 08 22.10	+00 57 04.0	*MPS* 309232		644
2001 UJ_{231}	2001 10 21.37441	01 08 21.05	+00 57 02.5	*MPS* 309232		644
2002 NV_{79}	*2002 07 04.27681	20 13 55.57	−19 58 05.2	*MPC* 79429		291
2002 NV_{79}	2002 07 04.29801	20 13 54.62	−19 58 06.2	*MPC* 79429		291
2002 NV_{79}	2002 07 04.31947	20 13 53.66	−19 58 07.0	*MPC* 79429		291
2002 TM_{323}	*2002 10 05.31167	00 03 08.399	+00 01 58.97	*MPS* 83055		645
2002 TM_{323}	2002 10 05.311670	00 03 08.398	+00 01 59.00	*MPS* 83055		645
2002 TM_{323}	2002 10 05.315142	00 03 08.226	+00 01 58.19	*MPS* 83055		645
2005 EJ_{278}	2005 03 13.26790	12 18 22.36	−02 33 32.5	*MPS* 130292		691
2005 EJ_{278}	2005 03 13.30280	12 18 20.77	−02 33 19.0	*MPS* 130292		691
2005 EJ_{278}	2005 03 13.33049	12 18 19.51	−02 33 08.3	*MPS* 130292		691
2005 SV_{16}	2010 05 02.67126	20 42 39.02	+00 04 40.1	*MPS* 324877		C51
Geocentric position (km)	+ 4195.7391	− 5488.2434	− 206.4560			
2005 UW_{343}	2005 10 29.32300	02 28 26.36	+21 16 14.8	*MPS* 341827		703
2005 UW_{343}	2005 10 29.33057	02 28 26.11	+21 16 12.6	*MPS* 341827		703
2005 UW_{343}	2005 10 29.33812	02 28 25.60	+21 16 08.1	*MPS* 341827		703
2005 UW_{343}	2005 10 29.34553	02 28 25.21	+21 16 03.9	*MPS* 341827		703
2005 WZ_{51}	2005 11 25.47814	04 27 01.98	+20 39 55.2	*MPS* 312426		G96
2005 WZ_{51}	2005 11 25.47972	04 27 01.90	+20 39 54.9	*MPS* 312426		G96
2005 WZ_{51}	2005 11 25.48130	04 27 01.80	+20 39 55.3	*MPS* 312426		G96
2005 WZ_{51}	2005 11 25.48288	04 27 01.69	+20 39 54.6	*MPS* 312426		G96
2006 FY_9	2006 03 25.44307	13 36 45.36	−09 52 45.2	*MPS* 312453		G96
2006 FY_9	2006 03 25.44536	13 36 45.28	−09 52 45.5	*MPS* 312453		G96
2006 FY_9	2006 03 25.44774	13 36 45.18	−09 52 44.5	*MPS* 312453		G96
2006 FY_9	2006 03 25.45015	13 36 45.07	−09 52 43.7	*MPS* 312453		G96
2006 UW_{85}	2014 04 21.35161	13 34 35.86	−13 29 51.2	*MPS* 512500		G96
2006 UW_{85}	2014 04 21.35784	13 34 35.60	−13 29 50.1	*MPS* 512500		G96
2006 UW_{85}	2014 04 21.36409	13 34 35.29	−13 29 48.7	*MPS* 512500		G96
2006 UW_{85}	2014 04 21.37033	13 34 34.93	−13 29 46.6	*MPS* 512500		G96
2006 WR_{129}	2006 11 30.63771	05 52 24.27	+11 20 33.0	*MPS* 190861		D35
2007 SC_{22}	*2007 09 22.35745	00 34 53.06	+09 10 09.3	*MPS* 313406		704
2007 SC_{22}	2007 09 22.36966	00 34 52.51	+09 10 06.6	*MPS* 313406		704
2007 SC_{22}	2007 09 22.38199	00 34 51.97	+09 10 03.4	*MPS* 313406		704
2007 SC_{22}	2007 09 22.39420	00 34 51.35	+09 10 01.2	*MPS* 313406		704
2007 SC_{22}	2007 10 09.21538	00 22 21.71	+07 51 24.9	*MPS* 313406		704
2007 SC_{22}	2007 10 09.22630	00 22 21.21	+07 51 22.7	*MPS* 313406		704
2007 SC_{22}	2007 10 09.23726	00 22 20.70	+07 51 17.3	*MPS* 313406		704
2007 SC_{22}	2007 10 09.24837	00 22 20.24	+07 51 15.0	*MPS* 313406		704
2007 TK_{260}	2009 02 26.21747	07 55 49.29	+19 40 08.2	*MPS* 444913		G96
2007 TE_{422}	*2007 10 10.38774	02 54 12.63	+09 41 25.8	*MPC* 62219		G96
2007 TE_{422}	2007 10 10.39444	02 54 12.34	+09 41 24.9	*MPC* 62219		G96
2007 TE_{422}	2007 10 10.40119	02 54 12.02	+09 41 24.4	*MPC* 62219		G96
2007 TE_{422}	2007 10 10.40787	02 54 11.70	+09 41 23.1	*MPC* 62219		G96
2007 YL_{61}	*2007 12 16.22282	04 45 49.39	+31 21 12.9	*MPS* 244084		703
2007 YL_{61}	2007 12 16.22939	04 45 48.88	+31 21 12.3	*MPS* 244084		703
2007 YL_{61}	2007 12 16.23589	04 45 48.45	+31 21 12.1	*MPS* 244084		703
2007 YL_{61}	2007 12 16.24240	04 45 47.95	+31 21 11.3	*MPS* 244084		703
2008 AR_{135}	*2008 01 11.34586	09 01 50.30	+27 31 23.3	*MPS* 327449		704
2008 AR_{135}	2008 01 11.35870	09 01 49.69	+27 31 28.3	*MPS* 327449		704
2008 AR_{135}	2008 01 11.37156	09 01 49.10	+27 31 33.2	*MPS* 327449		704
2008 AR_{135}	2008 01 11.38440	09 01 48.61	+27 31 36.8	*MPS* 327449		704
2008 BS_{52}	*2008 01 30.39780	10 09 02.83	+20 28 20.7	*MPS* 327457		704
2008 BS_{52}	2008 01 30.41033	10 09 02.02	+20 28 20.8	*MPS* 327457		704
2008 BS_{52}	2008 01 30.42298	10 09 01.17	+20 28 19.2	*MPS* 327457		704
2008 BS_{52}	2008 01 30.43564	10 09 00.30	+20 28 17.9	*MPS* 327457		704
2008 BS_{52}	2008 02 06.28714	10 01 35.55	+20 19 18.6	*MPS* 327457		704
2008 BS_{52}	2008 02 06.29942	10 01 34.69	+20 19 17.5	*MPS* 327457		704
2008 BS_{52}	2008 02 06.31169	10 01 33.87	+20 19 16.2	*MPS* 327457		704
2008 BS_{52}	2008 02 06.32397	10 01 33.01	+20 19 15.4	*MPS* 327457		704
2008 BS_{52}	2008 02 06.33626	10 01 32.11	+20 19 13.3	*MPS* 327457		704
2008 EU_5	2015 10 19.25295	01 06 23.01	−29 07 15.1	*MPS* 719410		G45
2008 EU_5	2015 10 19.25302	01 06 23.04	−29 07 14.7	*MPS* 719410		G45
2008 EU_5	2015 10 19.25818	01 06 22.20	−29 07 08.7	*MPS* 719410		G45
2008 EU_5	2015 10 19.25824	01 06 22.21	−29 07 08.8	*MPS* 719410		G45
2008 EU_5	2015 10 19.26235	01 06 21.57	−29 07 05.1	*MPS* 719410		G45
2008 EU_5	2015 10 19.27630	01 06 19.30	−29 06 47.5	*MPS* 719410		G45
2008 EU_5	2015 10 19.27637	01 06 19.28	−29 06 48.5	*MPS* 719410		G45
2008 JS_{41}	*2008 05 02.20655	12 39 00.28	−04 51 32.4	*MPC* 100319		G96
2008 JS_{41}	2008 05 02.21273	12 39 00.10	−04 51 32.7	*MPC* 100319		G96
2008 JS_{41}	2008 05 02.21890	12 38 59.85	−04 51 30.6	*MPC* 100319		G96
2008 JS_{41}	2008 05 02.22508	12 38 59.78	−04 51 30.2	*MPC* 100319		G96
2008 RU_{132}	*2008 09 06.37698	01 36 36.86	+00 05 51.9	*MPS* 306669		703
2008 RU_{132}	2008 09 06.38524	01 36 37.04	+00 05 40.9	*MPS* 306669		703
2008 RU_{132}	2008 09 06.39357	01 36 37.26	+00 05 27.4	*MPS* 306669		703
2008 RU_{132}	2008 09 06.40192	01 36 37.51	+00 05 13.8	*MPS* 306669		703
2008 RU_{132}	2008 09 07.39410	01 37 08.07	−00 20 09.2	*MPS* 306669		703
2008 RU_{132}	2008 09 07.40067	01 37 08.29	−00 20 18.9	*MPS* 306669		703
2008 RU_{132}	2008 09 07.40720	01 37 08.50	−00 20 29.0	*MPS* 306669		703
2008 RU_{132}	2008 09 07.41374	01 37 08.65	−00 20 39.6	*MPS* 306669		703
2008 RR_{133}	*2008 09 03.03350	23 00 59.15	−11 14 14.1	*MPS* 306670		J75
2008 RR_{133}	2008 09 03.04686	23 00 58.44	−11 14 15.6	*MPS* 306670		J75
2008 RR_{133}	2008 09 03.06015	23 00 57.78	−11 14 16.9	*MPS* 306670		J75
2008 SG_{304}	2008 10 24.26006	02 04 06.92	+00 24 49.5	*MPS* 311928		704
2008 SG_{304}	2008 10 24.27154	02 04 06.23	+00 24 46.9	*MPS* 311928		704
2008 SG_{304}	2008 10 24.28314	02 04 05.67	+00 24 42.5	*MPS* 311928		704
2008 SG_{304}	2008 10 24.29466	02 04 04.99	+00 24 39.2	*MPS* 311928		704
2008 SB_{306}	*2008 09 28.28638	02 41 23.39	+11 21 30.6	*MPS* 311932		704
2008 SB_{306}	2008 09 28.29859	02 41 23.13	+11 21 28.2	*MPS* 311932		704
2008 SB_{306}	2008 09 28.31069	02 41 22.79	+11 21 25.4	*MPS* 311932		704
2008 SB_{306}	2008 09 28.32294	02 41 22.57	+11 21 22.4	*MPS* 311932		704
2008 SB_{306}	2008 09 28.33504	02 41 22.33	+11 21 20.8	*MPS* 311932		704
2008 SQ_{310}	*2008 09 28.37810	00 19 14.55	+09 26 02.8	*MPC* 80334		703
2008 SQ_{310}	2008 09 28.38568	00 19 14.26	+09 25 59.8	*MPC* 80334		703
2008 SQ_{310}	2008 09 28.39325	00 19 13.83	+09 25 57.5	*MPC* 80334		703
2008 SQ_{310}	2008 09 28.40087	00 19 13.51	+09 25 54.0	*MPC* 80334		703
2008 TC_{183}	*2008 10 02.28199	01 14 35.79	+15 35 35.0	*MPS* 311949		704
2008 TC_{183}	2008 10 02.29432	01 14 35.25	+15 35 31.1	*MPS* 311949		704

2008 TC_{183} 2008 10 02.30658 01 14 34.61 +15 35 28.8 *MPS* 311949 704
2008 TC_{183} 2008 10 02.31884 01 14 34.02 +15 35 26.0 *MPS* 311949 704
2008 TC_{183} 2008 10 02.33119 01 14 33.39 +15 35 22.1 *MPS* 311949 704
2008 XR_{26} 2018 08 23.77020 00 51 55.63 +15 01 47.2 *MPS* 910994 D29
2008 XR_{26} 2018 08 23.78433 00 51 55.51 +15 01 48.9 *MPS* 910994 D29
2009 SS_{365} *2009 09 21.35387 00 59 41.64 +17 41 59.6 *MPC* 76680 703
2009 SS_{365} 2009 09 21.35931 00 59 41.31 +17 41 59.3 *MPC* 76680 703
2009 SS_{365} 2009 09 21.36488 00 59 41.13 +17 41 56.4 *MPC* 76680 703
2009 SS_{365} 2009 09 21.37041 00 59 40.95 +17 41 57.0 *MPC* 76680 703
2009 SE_{369} *2009 09 30.31729 01 41 56.50 +21 41 27.4 *MPC* 93071 G96
2009 SE_{369} 2009 09 30.32334 01 41 56.18 +21 41 26.0 *MPC* 93072 G96
2009 SE_{369} 2009 09 30.32941 01 41 55.93 +21 41 24.3 *MPC* 93072 G96
2009 SE_{369} 2009 09 30.33551 01 41 55.64 +21 41 22.9 *MPC* 93072 G96
2010 BG_{12} 2010 01 16.71290 02 15 46.31 −02 32 18.5 *MPS* 332050 C51
Geocentric position (km) + 6267.6846 + 2816.4629 − 728.4984
2010 BA_{50} 2010 01 21.55130 01 25 10.78 +40 19 04.8 *MPS* 332134 C51
Geocentric position (km) + 4964.1325 + 2002.2769 + 4357.3505
2010 BC_{71} 2010 07 13.15200 14 01 32.87 +04 19 21.7 *MPS* 343979 C51
Geocentric position (km) − 6557.9836 − 2011.0527 + 829.1947
2010 BE_{95} 2010 01 27.26942 14 22 52.40 −13 31 48.9 *MPS* 335169 C51
Geocentric position (km) − 5726.2765 − 3602.8038 − 1424.1674
2010 BR_{108} 2010 01 28.76131 02 20 24.37 +31 10 05.6 *MPS* 343778 C51
Geocentric position (km) + 5179.1689 + 3118.2053 + 3334.3524
2010 BA_{116} 2010 01 30.08359 02 34 37.04 +25 57 26.7 *MPS* 343795 C51
Geocentric position (km) + 5296.7135 + 3472.1399 + 2750.2761
2010 BC_{127} 2010 01 31.40447 02 58 47.96 +13 34 56.3 *MPS* 343822 C51
Geocentric position (km) + 5463.9599 + 4032.9142 + 1260.4083
2010 BO_{129} 2010 01 31.00603 03 06 10.41 +05 30 09.0 *MPS* 375346 C51
Geocentric position (km) + 5504.1206 + 4162.4946 + 318.9336
2010 CL_{199} 2010 02 14.69574 04 05 44.13 +12 23 37.4 *MPS* 330896 C51
Geocentric position (km) + 4322.5446 + 5253.1511 + 1201.1140
2010 CU_{238} 2010 02 02.49434 14 06 06.40 −42 05 27.9 *MPS* 343851 C51
Geocentric position (km) − 4339.9206 − 2838.1092 − 4575.0269
2010 DS_{16} 2010 02 17.01431 04 00 17.82 +27 49 46.7 *MPS* 375362 C51
Geocentric position (km) + 3961.4965 + 4814.7474 + 2969.6049
2010 DG_{21} 2010 02 18.20377 04 13 39.96 +19 45 49.8 *MPS* 313952 C51
Geocentric position (km) + 3968.6765 + 5254.4346 + 2085.5218
2010 DG_{62} 2010 02 25.37938 16 33 48.28 −03 00 25.1 *MPS* 375375 C51
Geocentric position (km) − 3221.1261 − 6110.4730 − 181.0836
2010 EG_{17} 2010 03 07.47650 05 19 07.51 +42 47 09.6 *MPS* 316905 C51
Geocentric position (km) + 2139.7708 + 4722.6382 + 4559.9617
2010 EZ_{17} 2010 03 08.26599 05 29 51.07 +18 38 43.7 *MPS* 337463 C51
Geocentric position (km) + 2176.1430 + 6222.2378 + 2067.8343
2010 EQ_{20} 2010 03 07.14389 05 17 23.64 +33 08 41.4 *MPS* 375377 C51
Geocentric position (km) + 2267.5041 + 5423.2188 + 3624.9473
2010 EU_{49} 2010 03 12.33265 17 24 55.53 −05 57 18.9 *MPS* 335250 C51
Geocentric position (km) − 1619.0867 − 6684.5358 − 658.0813
2010 FC_{42} 2010 03 20.70894 06 30 59.85 +43 08 36.7 *MPS* 319565 C51
Geocentric position (km) + 1027.8776 + 4977.2067 + 4672.7467
2010 FH_{50} 2010 03 25.70402 18 25 22.89 −43 15 57.6 *MPS* 320784 C51
Geocentric position (km) − 601.2202 − 5035.9019 − 4698.4849
2010 GV_3 2010 04 01.88422 07 36 30.22 +52 14 07.5 *MPS* 320858 C51
Geocentric position (km) + 195.4041 + 4189.5468 + 5480.0162
2010 GK_{12} 2010 04 03.06974 07 18 55.86 +23 04 21.2 *MPS* 320879 C51
Geocentric position (km) − 565.2819 + 6291.3900 + 2791.8218
2010 GN_{43} 2010 04 08.43016 07 49 01.91 +31 03 40.9 *MPS* 322414 C51
Geocentric position (km) − 913.6082 + 5775.7625 + 3670.6367
2010 GZ_{60} 2010 04 05.58683 07 45 06.98 +39 16 26.1 *MPS* 870109 C51
Geocentric position (km) − 416.6582 + 5257.4567 + 4453.7327
2010 GH_{151} 2010 04 15.50774 08 17 11.21 +22 43 26.6 *MPS* 323696 C51
Geocentric position (km) − 1856.6754 + 5988.9669 + 2892.2914
2010 HL_{33} 2010 04 24.83729 08 56 15.85 +29 14 56.9 *MPS* 325017 C51
Geocentric position (km) − 2495.1422 + 5306.0839 + 3642.6836
2010 HY_{72} 2010 04 28.94063 09 28 49.01 +37 08 05.2 *MPS* 325110 C51
Geocentric position (km) − 2420.7378 + 4659.3620 + 4478.3904
2010 HP_{100} 2010 04 30.59297 09 26 56.46 +28 27 52.0 *MPS* 325171 C51
Geocentric position (km) − 3002.6679 + 5029.9539 + 3651.1276
2010 HR_{101} 2010 04 30.88954 21 01 58.48 −23 16 20.7 *MPS* 325173 C51
Geocentric position (km) + 3303.8296 − 5257.6632 − 3041.5226
2010 HN_{111} 2010 04 19.71002 20 16 04.93 −30 24 29.0 *MPS* 340895 C51
Geocentric position (km) + 2023.9989 − 5517.0885 − 3643.9126
2010 HX_{111} 2010 04 20.36632 19 52 17.97 −01 40 41.3 *MPS* 378752 C51
Geocentric position (km) + 2922.6033 − 6248.9292 − 411.1195
2010 JV_{23} 2010 05 08.89783 21 58 28.41 −40 22 31.9 *MPS* 326544 C51
Geocentric position (km) + 2946.8402 − 4000.6424 − 4809.7495
2010 KQ_3 2010 05 17.46155 10 30 45.71 +20 21 37.7 *MPS* 327723 C51
Geocentric position (km) − 4680.0782 + 4128.4483 + 2953.5084
2010 KT_{21} 2010 05 18.52113 10 48 06.69 +25 58 43.9 *MPS* 328726 C51
Geocentric position (km) − 4431.1355 + 3903.8623 + 3575.6018
2010 KZ_{31} 2010 05 20.07147 21 53 47.22 −05 30 39.0 *MPS* 328751 C51
Geocentric position (km) + 5511.7909 − 4054.5936 − 979.8694
2010 LG_{23} 2010 06 05.11843 11 59 13.85 +26 08 32.8 *MPS* 331019 C51
Geocentric position (km) − 5362.3484 + 2403.3874 + 3625.6061
2010 LF_{30} 2010 06 06.33514 22 40 42.34 +07 47 47.8 *MPS* 331037 C51
Geocentric position (km) + 6548.8999 − 2050.6395 + 798.0809
2010 LW_{43} 2010 06 08.19249 23 31 34.38 −17 29 42.7 *MPS* 332303 C51
Geocentric position (km) + 6111.7369 − 2136.7478 − 2418.8856
2010 LD_{49} 2010 06 09.58072 23 26 57.66 −12 56 23.7 *MPS* 332317 C51
Geocentric position (km) + 6376.8846 − 1963.8828 − 1799.4468
2010 LJ_{97} 2010 06 14.20970 23 33 22.84 −03 54 21.0 *MPS* 332434 C51
Geocentric position (km) + 6747.0075 − 1340.2493 − 650.9370
2010 MZ_{24} 2006 11 25.20726 04 27 40.05 +26 58 01.3 *MPS* 348144 691
2010 MZ_{24} 2006 11 25.22461 04 27 38.96 +26 57 59.0 *MPS* 348145 691
2010 MZ_{24} 2006 11 25.24197 04 27 37.84 +26 57 56.7 *MPS* 348145 691
2010 MD_{32} 2010 06 20.62433 23 44 33.74 +07 42 04.8 *MPS* 335470 C51
Geocentric position (km) + 6846.4337 − 394.7852 + 824.7203
2010 MT_{68} 2010 06 26.81294 12 52 00.24 +07 39 03.6 *MPS* 335565 C51
Geocentric position (km) − 6793.1962 − 56.7102 + 1261.3634
2010 MY_{85} 2010 06 28.76082 00 15 05.04 +09 28 39.9 *MPS* 337552 C51
Geocentric position (km) + 6798.9973 + 591.1318 + 1058.5992
2010 MW_{94} 2010 06 29.45468 12 27 04.98 −14 17 41.9 *MPS* 337573 C51
Geocentric position (km) − 6693.6671 − 731.2678 − 1565.1012
2010 MB_{109} 2010 06 30.44588 12 23 12.53 −20 19 12.8 *MPS* 337610 C51
Geocentric position (km) − 6472.0290 − 916.1121 − 2252.0101
2010 NZ_{59} 2010 07 11.72951 01 27 54.65 −05 51 10.4 *MPS* 340072 C51
Geocentric position (km) + 6612.0670 + 1865.7035 − 729.1156

2010 NT_{107}	2010 07 13.15200	14 01 32.87	+04 19 21.7	*MPS* 343979		C51
Geocentric position (km)		− 6557.9836	− 2011.0527	+ 829.1947		
2011 EP_{51}	2017 01 30.933660	10 20 17.50	−08 49 59.4	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.936107	10 20 16.30	−08 49 49.7	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.938564	10 20 15.07	−08 49 40.5	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.941015	10 20 13.88	−08 49 31.5	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.943486	10 20 12.66	−08 49 22.0	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.945945	10 20 11.44	−08 49 12.5	*MPS* 799341		K92
2011 EP_{51}	2017 01 30.948395	10 20 10.25	−08 49 03.3	*MPS* 799341		K92
2013 EP_{41}	2018 09 06.74344	23 23 14.71	−01 05 17.9	*MPS* 912312		C97
2013 EP_{41}	2018 09 06.74647	23 23 14.65	−01 05 30.9	*MPS* 912312		C97
2013 EP_{41}	2018 09 06.74799	23 23 14.60	−01 05 41.8	*MPS* 912312		C97
2014 EZ_{155}	2002 08 27.21233	22 05 53.51	−06 05 39.0	*MPS* 851603		644
2014 EZ_{155}	2002 08 27.28245	22 05 50.14	−06 06 06.9	*MPS* 851603		644
2014 EZ_{155}	2002 08 27.35195	22 05 46.76	−06 06 35.1	*MPS* 851603		644
2014 SU_{349}	2014 09 21.30612	01 18 43.603	−17 16 59.43	*MPS* 725667		807
2014 SU_{349}	2014 09 22.31750	01 18 40.386	−17 17 24.72	*MPS* 725667		807
2014 SU_{349}	2014 09 22.39605	01 18 40.159	−17 17 26.84	*MPS* 725667		807
2015 RR_{245}	2015 09 18.44074	00 18 33.499	+05 36 59.74	*MPC* 100617		568
2015 RR_{245}	2015 10 08.32880	00 17 33.721	+05 30 17.92	*MPC* 100617		568
2015 RR_{245}	2015 10 08.38143	00 17 33.561	+05 30 16.82	*MPC* 100617		568
2015 RR_{245}	2015 10 09.29850	00 17 30.841	+05 29 57.91	*MPC* 100617		568
2015 RR_{245}	2015 11 10.41160	00 16 07.019	+05 19 40.31	*MPC* 100617		568
2015 RR_{245}	2015 12 08.22307	00 15 27.461	+05 13 41.39	*MPC* 100617		568
2015 RR_{245}	2016 02 04.21904	00 16 25.997	+05 16 04.86	*MPS* 719597		568
2015 RR_{245}	2016 02 04.22299	00 16 26.014	+05 16 04.93	*MPC* 100617		568
2015 RR_{245}	2016 02 04.22679	00 16 26.030	+05 16 05.02	*MPC* 100617		568
2015 RR_{245}	2016 02 05.21589	00 16 28.569	+05 16 17.87	*MPC* 100617		568
2015 RR_{245}	2016 02 05.21880	00 16 28.576	+05 16 18.26	*MPC* 100617		568
2015 RR_{245}	2016 02 06.21934	00 16 31.227	+05 16 31.87	*MPC* 100617		568
2015 RR_{245}	2016 02 07.21905	00 16 33.905	+05 16 45.77	*MPC* 100617		568
2015 RR_{245}	2016 06 05.61595	00 22 51.600	+05 56 38.99	*MPS* 719597		568
2015 RR_{245}	2016 06 07.61302	00 22 54.751	+05 57 03.67	*MPS* 719597		568
2015 RR_{245}	2016 06 08.57085	00 22 56.191	+05 57 15.09	*MPS* 719597		568
2017 BW_{30}	2017 01 15.65501	14 27 11.754	+32 09 10.33	*MPS* 813441		F51
2017 BW_{30}	2017 01 15.66180	14 27 07.785	+32 08 41.98	*MPS* 813441		F51
2017 GM_7	2017 05 27.261832	10 35 28.095	+53 28 34.12	*MPS* 805578		T12
2018 EJ_4	2018 06 04.24664	15 10 02.56	+26 05 23.2	*MPS* 895037		V16
2018 JP_1	2018 05 15.42828	15 18 18.40	+22 51 53.3	*MPS* 891327		I52
2018 JP_1	2018 05 15.42952	15 18 18.32	+22 51 50.7	*MPS* 891327		I52
2018 JP_1	2018 05 15.43077	15 18 18.11	+22 51 47.9	*MPS* 891327		I52
2018 LA	2018 06 02.34330	16 11 10.34	−11 19 34.7	*MPS* 895050		G96
2018 LA	2018 06 02.34851	16 10 59.30	−11 20 21.6	*MPS* 895050		G96
2018 LA	2018 06 02.35373	16 10 48.15	−11 21 08.9	*MPS* 895050		G96
2018 LA	2018 06 02.35895	16 10 36.57	−11 21 57.6	*MPS* 895050		G96
2018 LA	2018 06 02.39785	16 09 02.60	−11 28 26.0	*MPS* 895050		I52
2018 LA	2018 06 02.39804	16 09 02.13	−11 28 28.1	*MPS* 895050		I52
2018 LA	2018 06 02.39822	16 09 01.62	−11 28 30.1	*MPS* 895050		I52
2018 LA	2018 06 02.39840	16 09 01.15	−11 28 31.8	*MPS* 895050		I52
2018 LA	2018 06 02.40223	16 08 51.04	−11 29 13.6	*MPS* 895050		G96
2018 LA	2018 06 02.40233	16 08 50.78	−11 29 15.1	*MPS* 895050		G96
2018 LA	2018 06 02.40242	16 08 50.58	−11 29 16.1	*MPS* 895051		G96
2018 LA	2018 06 02.40251	16 08 50.28	−11 29 16.8	*MPS* 895051		G96
2018 LA	2018 06 02.49263	16 06 03.77	−11 44 01.9	*MPS* 895051		T08
2018 LA	2018 06 02.50096	16 05 20.09	−11 46 56.2	*MPS* 895051		T08
D/1993F2-P	1994 01 18.50858	14 30 59.66	−15 42 08.0	*MPC* 22995		695
0001I	2017 10 18.47298	01 59 57.442	+02 06 04.30	*MPC* 106548		F51
0001I	2017 10 18.49990	01 59 08.910	+02 07 20.19	*MPC* 106548		F51
0001I	2017 10 19.39715	01 34 55.362	+02 45 03.20	*MPC* 106548		F51
0001I	2017 10 19.40837	01 34 38.745	+02 45 28.24	*MPC* 106548		F51
0001I	2017 10 19.41968	01 34 21.948	+02 45 53.55	*MPC* 106548		F51
0001I	2017 10 19.43106	01 34 05.174	+02 46 18.89	*MPC* 106548		F51
0001I	2017 10 19.940934	01 22 22.288	+03 03 53.76	*MPC* 106548		J04
0001I	2017 10 19.943901	01 22 18.372	+03 03 59.57	*MPC* 106548		J04
46P	2018 05 08.46166	22 57 48.75	−16 27 39.0	*MPC* 110163		G37
46P	2018 05 08.46362	22 57 48.91	−16 27 38.1	*MPC* 110163		G37
46P	2018 05 08.46644	22 57 49.17	−16 27 37.4	*MPC* 110163		G37
46P	2018 05 08.46898	22 57 49.35	−16 27 35.9	*MPC* 110163		G37
46P	2018 05 08.47171	22 57 49.45	−16 27 35.3	*MPC* 110163		G37
46P	2018 05 08.47434	22 57 49.76	−16 27 34.5	*MPC* 110163		G37
(3393)	2010 03 16.33730	06 04 18.35	+15 54 39.4	*MPS* 318220		C51
Geocentric position (km)		+ 1277.3709	+ 6533.6604	+ 1847.8424		
(17485)	2018 04 18.36116	13 55 38.07	−00 55 46.0	*MPS* 882538		703
(17485)	2018 04 18.36640	13 55 37.63	−00 55 46.3	*MPS* 882538		703
(17485)	2018 04 18.37164	13 55 37.22	−00 55 46.5	*MPS* 882538		703
(17485)	2018 04 18.37689	13 55 36.81	−00 55 46.0	*MPS* 882538		703
(23712)	2018 05 24.19912	14 23 08.30	−26 10 35.5	*MPS* 893961		703
(23712)	2018 05 24.20522	14 23 07.93	−26 10 29.8	*MPS* 893961		703
(23712)	2018 05 24.21132	14 23 07.64	−26 10 24.0	*MPS* 893961		703
(25454)	2018 03 07.39247	12 03 14.44	+06 38 21.4	*MPS* 873122		703
(25454)	2018 03 07.40303	12 03 13.76	+06 38 29.4	*MPS* 873122		703
(25454)	2018 03 07.40832	12 03 13.42	+06 38 33.3	*MPS* 873122		703
(41050)	2018 03 06.30273	04 44 57.15	+32 16 49.4	*MPS* 873263		T05
(66612)	2010 06 05.90690	11 15 05.25	−01 00 00.4	*MPS* 331474		C51
Geocentric position (km)		− 6524.0678	+ 2252.1206	+ 323.3226		
(78292)	2010 03 07.34025	05 22 49.56	+21 21 47.0	*MPS* 317400		C51
Geocentric position (km)		+ 2281.1957	+ 6068.7842	+ 2385.0271		
(98864)	2010 07 05.80704	13 09 02.46	−06 03 31.6	*MPS* 339545		C51
Geocentric position (km)		− 6761.9240	− 1346.6386	− 486.2660		
(160888)	2010 03 28.97546	06 51 57.61	+23 28 49.1	*MPS* 338605		C51
Geocentric position (km)		− 13.0384	+ 6316.7592	+ 2793.7892		
(165923)	*1999 03 21.350350	13 17 23.179	+00 54 33.99	*MPC* 54282		645
(165923)	1999 03 21.353822	13 17 23.042	+00 54 34.95	*MPC* 54282		645
(175791)	2010 07 10.86756	01 08 43.14	+04 18 31.4	*MPS* 339699		C51
Geocentric position (km)		+ 6608.2522	+ 1933.3789	+ 547.1635		
(233046)	2010 02 20.02342	15 54 32.65	−19 47 56.8	*MPS* 313189		C51
Geocentric position (km)		− 3796.1691	− 5333.1705	− 2219.6057		
(240909)	2010 05 02.44332	09 19 41.88	+17 34 16.0	*MPS* 324889		C51
Geocentric position (km)		− 3652.2823	+ 5315.4611	+ 2466.2165		
(266666)	2010 04 26.75513	09 02 56.49	+24 50 28.5	*MPS* 324944		C51
Geocentric position (km)		− 2840.2407	+ 5395.6673	+ 3236.8731		
(277004)	1995 04 04.28724	11 21 14.80	+09 10 33.0	*MPS* 167099		691
(303804)	2010 05 16.03715	21 46 54.93	−11 58 48.6	*MPS* 327707		C51
Geocentric position (km)		+ 5037.9436	− 4407.5363	− 1727.7526		
(306173)	2010 07 01.21156	00 56 13.90	−05 54 53.2	*MPS* 343919		C51
Geocentric position (km)		+ 6817.3116	+ 617.5370	− 936.9586		

(310091) 2010 07 20.98479 01 20 11.75 +24 41 00.5 *MPS* 341017 C51
Geocentric position (km) + 5383.8013 + 3035.5412 + 3075.6302
(311518) 2010 06 27.70061 23 55 00.07 +18 02 55.3 *MPS* 335599 C51
Geocentric position (km) + 6526.1787 + 600.7866 + 2173.8379
(332589) 2010 03 02.71038 04 57 31.36 +29 39 20.4 *MPS* 316790 C51
Geocentric position (km) + 2712.1494 + 5463.0805 + 3240.8771
(335210) 2010 06 26.80988 12 26 52.94 −08 14 23.2 *MPS* 335582 C51
Geocentric position (km) − 6867.1027 − 319.9715 − 718.3833
(335855) 2010 05 11.57167 09 50 06.64 +10 09 30.8 *MPS* 341927 C51
Geocentric position (km) − 4682.7254 + 4776.5344 + 1716.7439
(345633) 2010 02 23.06705 16 08 38.31 −20 59 19.3 *MPS* 314002 C51
Geocentric position (km) − 3506.6433 − 5489.0175 − 2313.4447
(350259) 2010 04 15.90528 08 21 16.61 +25 35 27.6 *MPS* 323700 C51
Geocentric position (km) − 1790.0762 + 5827.2422 + 3241.7723
(350391) 2010 07 25.71780 14 24 29.22 −10 36 32.4 *MPS* 341140 C51
Geocentric position (km) − 5800.9957 − 3570.8113 − 1168.4119
(362403) 2010 08 04.34414 02 49 36.72 +01 43 53.3 *MPS* 344014 C51
Geocentric position (km) + 5281.0514 + 4446.9104 + 277.4309
(372613) 2010 03 01.91541 04 58 22.81 +24 16 44.0 *MPS* 335074 C51
Geocentric position (km) + 2826.8531 + 5723.5849 + 2639.6147
(378290) 2010 02 27.92473 05 03 10.75 −07 23 35.7 *MPS* 335209 C51
Geocentric position (km) + 2767.1108 + 6243.2003 − 1067.9897
(380129) 2010 04 17.36572 09 09 08.96 +51 33 06.4 *MPS* 323390 C51
Geocentric position (km) − 815.2394 + 3909.6774 + 5625.6285
(380911) 2010 04 19.87428 08 37 43.39 +22 37 24.4 *MPS* 325012 C51
Geocentric position (km) − 2275.4636 + 5803.9678 + 2967.8005
(382272) 2010 01 19.99224 13 37 21.20 −16 51 12.8 *MPS* 332127 C51
Geocentric position (km) − 6030.0643 − 2725.6110 − 2004.1202
(384990) 2010 07 02.69619 12 43 04.33 −15 00 26.7 *MPS* 343938 C51
Geocentric position (km) − 6642.7257 − 1102.4044 − 1564.4353
(385595) 2010 02 12.74568 15 19 40.86 −20 23 12.6 *MPS* 316720 C51
Geocentric position (km) − 4416.9355 − 4777.6439 − 2335.2923
(387301) 2010 08 02.65412 14 47 30.93 −19 59 38.2 *MPS* 344035 C51
Geocentric position (km) − 4922.4139 − 4253.7808 − 2334.8283
(387998) 2010 04 20.43444 19 59 54.09 −12 58 22.1 *MPS* 340728 C51
Geocentric position (km) + 2694.1542 − 6141.7043 − 1674.7410
(388254) 2010 02 12.08620 15 02 04.70 −32 05 29.6 *MPS* 313315 C51
Geocentric position (km) − 4198.6507 − 4155.3118 − 3593.0004
(398605) 2010 06 19.36471 23 10 41.68 +21 04 37.3 *MPS* 335386 C51
Geocentric position (km) + 6420.7207 − 277.4409 + 2525.5055
(402723) 2010 06 30.35050 00 40 53.24 −00 54 32.7 *MPS* 337586 C51
Geocentric position (km) + 6876.3776 + 612.8534 − 245.7590
(403556) 2010 05 23.11598 22 17 41.67 −12 42 53.3 *MPS* 329489 C51
Geocentric position (km) + 5497.1009 − 3759.5737 − 1853.4604
(403630) 2010 07 19.86295 01 40 50.07 +11 15 51.7 *MPS* 341020 C51
Geocentric position (km) + 6072.9217 + 2977.2329 + 1396.7420
(408331) 2010 06 30.21935 00 51 00.50 −06 43 42.2 *MPS* 337594 C51
Geocentric position (km) + 6820.1030 + 493.7837 − 988.9737
(408742) 2010 04 09.78695 19 29 48.16 −34 51 00.2 *MPS* 322431 C51
Geocentric position (km) + 951.5337 − 5562.2786 − 3995.2713
(411219) 2010 07 18.86895 01 17 53.72 +19 57 25.0 *MPS* 340977 C51
Geocentric position (km) + 5772.7299 + 2873.8362 + 2467.0070
(411582) 2010 02 07.81528 03 29 50.10 +15 27 49.5 *MPS* 313700 C51
Geocentric position (km) + 4892.4090 + 4623.2220 + 1548.9495
(418643) 2010 04 26.35847 09 02 03.27 +26 24 58.9 *MPS* 324934 C51
Geocentric position (km) − 2737.5637 + 5348.3382 + 3399.1298
(419419) 2010 07 04.74721 12 51 11.15 −13 12 17.9 *MPS* 343944 C51
Geocentric position (km) − 6643.9893 − 1318.6699 − 1380.3692
(420020) 2010 02 04.11332 02 51 18.40 +33 01 24.4 *MPS* 375358 C51
Geocentric position (km) + 4758.3336 + 3592.2999 + 3481.2956
(424942) 2010 06 17.48113 11 44 59.11 −14 57 01.6 *MPS* 335039 C51
Geocentric position (km) − 6728.2065 + 671.3048 − 1434.2194
(426290) 2010 07 04.21774 12 47 15.04 −14 19 56.9 *MPS* 343942 C51
Geocentric position (km) − 6618.1179 − 1273.2478 − 1537.7800
(428771) 2010 05 03.17131 09 21 03.38 +19 03 02.0 *MPS* 325204 C51
Geocentric position (km) − 3661.5409 + 5231.0183 + 2626.1026
(429585) 2010 02 13.50895 03 36 58.46 +35 04 57.5 *MPS* 375352 C51
Geocentric position (km) + 4057.8097 + 4187.4917 + 3698.3895
(436365) 2010 06 01.70514 22 34 52.21 +04 03 22.2 *MPS* 330951 C51
Geocentric position (km) + 6377.5439 − 2645.0145 + 271.5812
(437483) 2010 05 25.13671 11 08 36.80 +26 18 11.6 *MPS* 329505 C51
Geocentric position (km) − 4828.7777 + 3370.4704 + 3603.2962
(438897) 2010 03 15.92065 12 03 36.20 −87 38 09.2 *MPS* 318041 C51
Geocentric position (km) − 923.8813 − 5.0556 − 6853.1063
(439170) 2010 05 03.99506 20 53 04.43 −03 07 30.0 *MPS* 326536 C51
Geocentric position (km) + 4257.4299 − 5407.0039 − 645.1704
(439686) 2010 06 10.43579 22 51 24.17 +11 51 59.9 *MPS* 332372 C51
Geocentric position (km) + 6603.6607 − 1487.5144 + 1375.8895
(440686) 2010 07 24.56005 02 01 29.73 +09 32 15.8 *MPS* 340743 C51
Geocentric position (km) + 5861.8781 + 3453.2462 + 1192.1742
(443774) 2010 06 15.46512 23 26 55.31 +03 34 07.7 *MPS* 335358 C51
Geocentric position (km) + 6817.0356 − 1071.0035 + 324.6322
(444025) 2015 04 25.29273 14 27 38.35 −14 12 22.3 *MPS* 814992 W84
(444025) 2015 04 25.36171 14 27 38.02 −14 12 21.1 *MPS* 814992 W84
(445342) 2010 06 11.56400 23 24 18.40 −06 02 27.5 *MPS* 332374 C51
Geocentric position (km) + 6635.8786 − 1675.9627 − 950.1659
(445360) 2010 07 19.66379 01 31 08.92 +14 43 45.0 *MPS* 340997 C51
Geocentric position (km) + 5959.0464 + 2964.3982 + 1841.0503
(446679) 2010 06 13.91389 12 12 33.74 +10 45 54.3 *MPS* 335325 C51
Geocentric position (km) − 6493.5602 + 1486.1619 + 1830.4547
(448506) 2010 06 23.13759 23 51 11.39 +10 26 32.7 *MPS* 335506 C51
Geocentric position (km) + 6803.1486 − 48.8013 + 1191.4512
(448913) 2010 04 08.59774 19 29 41.04 −43 44 43.2 *MPS* 375382 C51
Geocentric position (km) + 565.8482 − 4934.4089 − 4811.1938
(459806) 2010 04 14.05570 08 31 06.99 +40 36 12.7 *MPS* 322483 C51
Geocentric position (km) − 1056.0299 + 4913.3943 + 4729.7370
(461642) 2010 05 03.76394 09 09 22.46 +04 24 15.7 *MPS* 326535 C51
Geocentric position (km) − 4190.5081 + 5418.5570 + 886.3372
(461856) 2010 04 06.84251 07 41 31.16 +31 52 09.5 *MPS* 341866 C51
Geocentric position (km) − 732.3687 + 5745.4852 + 3757.7138
(467076) 2010 05 28.14340 22 36 53.21 −10 28 07.5 *MPS* 329561 C51
Geocentric position (km) + 5868.9811 − 3271.9509 − 1620.9504
(472587) 2010 04 13.45899 08 15 19.11 +34 08 00.3 *MPS* 375383 C51
Geocentric position (km) − 1259.7715 + 5412.1492 + 4095.2545
(477210) 2010 06 15.33435 23 39 08.55 −04 09 43.0 *MPS* 335352 C51
Geocentric position (km) + 6768.9491 − 1212.0602 − 671.2462

(480598)	2010 06 21.81507	23 49 40.42	+07 56 38.3	*MPS* 335482		C51
Geocentric position (km)	+ 6850.8185	− 252.3332	+ 841.6037			
(480658)	2010 07 18.80757	01 58 54.20	−04 43 30.3	*MPS* 340992		C51
Geocentric position (km)	+ 6342.5554	+ 2677.1252	− 583.4234			
(482061)	2010 07 21.68667	14 35 28.44	+11 00 49.8	*MPS* 340977		C51
Geocentric position (km)	− 6126.8895	− 2815.3927	+ 1500.3750			
(482171)	2010 07 23.83079	01 48 37.23	+17 47 56.7	*MPS* 341103		C51
Geocentric position (km)	+ 5612.5508	+ 3371.0279	+ 2194.2789			
(484589)	2010 03 20.90733	06 30 38.56	+42 53 23.7	*MPS* 337528		C51
Geocentric position (km)	+ 1008.3990	+ 5020.0256	+ 4631.3066			
(485064)	2010 04 19.34405	08 29 08.35	+17 56 51.4	*MPS* 340855		C51
Geocentric position (km)	− 2397.2328	+ 6020.8530	+ 2384.6429			
(497243)	2010 05 02.04412	09 02 08.86	+05 36 08.2	*MPS* 325200		C51
Geocentric position (km)	− 3998.1995	+ 5534.0235	+ 1045.0865			
(499503)	2010 07 10.86846	01 18 08.38	−00 16 42.2	*MPS* 340064		C51
Geocentric position (km)	+ 6650.8355	+ 1866.2333	− 32.4893			
(502884)	2010 03 14.91074	17 35 45.40	+06 07 04.7	*MPS* 318135		C51
Geocentric position (km)	− 1132.7632	− 6770.2255	+ 769.1343			
(514284)	2010 07 28.92557	02 16 35.08	+11 35 57.4	*MPS* 342177		C51
Geocentric position (km)	+ 5510.8324	+ 3881.7317	+ 1505.7990			
(514642)	2010 05 10.87972	21 43 42.60	−26 06 29.1	*MPS* 327603		C51
Geocentric position (km)	+ 4000.6662	− 4527.0091	− 3363.0496			
(522278)	2002 08 17.23107	21 52 11.87	−00 50 56.1	*MPS* 886743		644
(522278)	2002 08 17.30857	21 52 08.00	−00 51 04.0	*MPS* 886743		644
(522278)	2002 08 17.37231	21 52 04.80	−00 51 10.6	*MPS* 886743		644

IDENTIFICATION CHANGES

Continuation to *MPC* 110139.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N	Obs.
2000 EW_{208}	*2000 03 03.469120	13 00 53.895	−02 15 02.81	2014 QK_{132}	21.51V			645
2000 EW_{208}	2000 03 03.472592	13 00 53.795	−02 15 01.87	2014 QK_{132}	22.24			645
2001 TT_{263}	*2001 10 10.35397	01 17 43.13	+01 20 11.2	2001 UJ_{231}	19.9	R		644
2001 TT_{263}	2001 10 10.37523	01 17 42.00	+01 20 07.8	2001 UJ_{231}	19.9	R		644
2002 TA_{389}	*2002 10 10.304870	23 59 13.150	−00 12 26.86	2002 TM_{323}	21.32V			645
2002 TA_{389}	2002 10 10.308342	23 59 12.977	−00 12 27.36	2002 TM_{323}	22.13			645
2006 FK_{56}	*2006 03 25.19181	12 23 56.25	+00 36 35.4	2008 RP_{65}	20.8	V		691
2006 FK_{56}	2006 03 25.20907	12 23 55.43	+00 36 40.3	2008 RP_{65}	20.9	V		691
2006 FK_{56}	2006 03 25.22631	12 23 54.66	+00 36 44.1	2008 RP_{65}	20.9	V		691
2006 KY_{145}	*2006 05 25.26736	14 26 19.14	−10 13 58.7	2008 VP_{21}	22.5	V		G96
2006 KY_{145}	2006 05 25.27270	14 26 18.92	−10 13 58.4	2008 VP_{21}	22.2	V		G96
2006 KY_{145}	2006 05 25.27817	14 26 18.78	−10 13 57.7	2008 VP_{21}	21.4	V		G96
2006 KY_{145}	2006 05 25.28368	14 26 18.52	−10 13 57.6	2008 VP_{21}	22.1	V		G96
2006 UN_{363}	*2006 10 31.13693	01 01 16.96	+04 40 38.2	2014 PT_{72}	21.8	V		G96
2006 UN_{363}	2006 10 31.14466	01 01 16.53	+04 40 37.1	2014 PT_{72}	20.9	V		G96
2006 UN_{363}	2006 10 31.15246	01 01 16.28	+04 40 34.6	2014 PT_{72}	21.3	V		G96
2006 UN_{363}	2006 10 31.16018	01 01 15.88	+04 40 33.9	2014 PT_{72}	21.1	V		G96
2006 UV_{365}	*2006 10 22.34524	00 42 53.64	+01 49 21.3	2006 ST_{332}	20.7	V		G96
2006 UV_{365}	2006 10 22.35149	00 42 53.28	+01 49 20.4	2006 ST_{332}	21.7	V		G96
2006 UV_{365}	2006 10 22.35763	00 42 52.99	+01 49 18.5	2006 ST_{332}	21.0	V		G96
2006 UV_{365}	2006 10 22.36365	00 42 52.70	+01 49 18.4	2006 ST_{332}	20.7	V		G96
2007 JT_{46}	*2007 05 13.31646	15 17 31.38	−15 14 13.0	2007 JX_{27}	21.4	V		G96
2007 JT_{46}	2007 05 13.32135	15 17 31.09	−15 14 11.9	2007 JX_{27}	21.2	V		G96
2007 JT_{46}	2007 05 13.32634	15 17 30.80	−15 14 10.9	2007 JX_{27}	22.2	V		G96
2007 JT_{46}	2007 05 13.33131	15 17 30.51	−15 14 11.1	2007 JX_{27}	21.8	V		G96
2007 TA_{456}	*2007 10 15.25534	00 18 22.28	+07 19 44.3	2007 SC_{22}	22.1	V		G96
2007 TA_{456}	2007 10 15.26155	00 18 22.06	+07 19 42.7	2007 SC_{22}	22.4	V		G96
2007 TA_{456}	2007 10 15.26751	00 18 21.78	+07 19 41.2	2007 SC_{22}	21.7	V		G96
2007 TA_{456}	2007 10 15.27354	00 18 21.52	+07 19 38.9	2007 SC_{22}	22.6	V		G96
2008 BW_{54}	*2008 01 18.29818	08 56 27.27	+28 08 21.5	2008 AR_{135}	21.0	V		G96
2008 BW_{54}	2008 01 18.30262	08 56 27.06	+28 08 23.5	2008 AR_{135}	20.7	V		G96
2008 BW_{54}	2008 01 18.30706	08 56 26.80	+28 08 25.5	2008 AR_{135}	20.4	V		G96
2008 BW_{54}	2008 01 18.31152	08 56 26.62	+28 08 27.2	2008 AR_{135}	20.2	V		G96
2008 CR_{218}	*2008 02 11.24859	09 55 50.34	+20 10 03.2	2008 BS_{52}	20.3	V		G96
2008 CR_{218}	2008 02 11.25338	09 55 50.01	+20 10 03.2	2008 BS_{52}	20.1	V		G96
2008 CR_{218}	2008 02 11.25816	09 55 49.69	+20 10 03.3	2008 BS_{52}	20.4	V		G96
2008 CR_{218}	2008 02 11.26292	09 55 49.40	+20 10 03.5	2008 BS_{52}	19.9	V		G96
2008 ED_{172}	*2008 03 01.35285	09 06 19.90	+29 43 12.8	2008 BM_{54}	19.7	V		G96
2008 ED_{172}	2008 03 01.35936	09 06 19.69	+29 43 13.6	2008 BM_{54}	19.7	V		G96
2008 ED_{172}	2008 03 01.36587	09 06 19.44	+29 43 14.5	2008 BM_{54}	20.0	V		G96
2008 ED_{172}	2008 03 01.37247	09 06 19.18	+29 43 14.8	2008 BM_{54}	19.8	V		G96
2008 GN_{149}	*2008 04 08.32712	13 15 13.86	−00 24 49.9	2008 GX_{23}	20.4	V		G96
2008 GN_{149}	2008 04 08.33376	13 15 13.53	−00 24 48.4	2008 GX_{23}	20.3	V		G96
2008 GN_{149}	2008 04 08.34049	13 15 13.21	−00 24 46.5	2008 GX_{23}	20.3	V		G96
2008 GN_{149}	2008 04 08.34718	13 15 12.85	−00 24 45.0	2008 GX_{23}	20.4	V		G96
2008 SN_{313}	*2008 09 24.37271	02 24 17.06	+03 20 44.4	2008 SG_{304}	20.7	V		G96
2008 SN_{313}	2008 09 24.38030	02 24 16.84	+03 20 41.9	2008 SG_{304}	20.7	V		G96
2008 SN_{313}	2008 09 24.38790	02 24 16.63	+03 20 39.9	2008 SG_{304}	20.9	V		G96
2008 SN_{313}	2008 09 24.39560	02 24 16.38	+03 20 37.7	2008 SG_{304}	20.6	V		G96
2008 TB_{193}	*2008 10 06.37103	02 37 39.20	+10 54 53.1	2008 SB_{306}	20.9	V		691
2008 TB_{193}	2008 10 06.38864	02 37 38.53	+10 54 50.1	2008 SB_{306}	20.9	V		691
2008 TB_{193}	2008 10 06.40628	02 37 37.90	+10 54 46.5	2008 SB_{306}	21.0	V		691
2008 TC_{193}	*2008 10 09.38805	01 08 47.81	+14 56 38.7	2008 TC_{183}				291
2008 TC_{193}	2008 10 09.39411	01 08 47.46	+14 56 37.6	2008 TC_{183}				291
2008 TC_{193}	2008 10 09.39959	01 08 47.19	+14 56 36.1	2008 TC_{183}				291
2008 UN_{375}	*2008 10 22.32420	02 05 46.21	+00 35 27.9	2008 SG_{304}	19.8	V		G96
2008 UN_{375}	2008 10 22.32949	02 05 45.92	+00 35 25.8	2008 SG_{304}	19.7	V		G96
2008 UN_{375}	2008 10 22.33482	02 05 45.60	+00 35 24.1	2008 SG_{304}	19.7	V		G96
2008 UN_{375}	2008 10 22.34003	02 05 45.38	+00 35 22.4	2008 SG_{304}	19.5	V		G96
2008 UO_{375}	*2008 10 24.36207	02 24 37.65	+09 41 31.0	2008 SB_{306}	21.3	V		G96
2008 UO_{375}	2008 10 24.36814	02 24 37.26	+09 41 29.0	2008 SB_{306}	22.1	V		G96
2008 UO_{375}	2008 10 24.37421	02 24 36.97	+09 41 27.4	2008 SB_{306}	21.1	V		G96
2008 UO_{375}	2008 10 24.38022	02 24 36.64	+09 41 25.1	2008 SB_{306}	20.9	V		G96
2008 UP_{375}	*2008 10 29.30922	00 55 09.87	+12 43 56.6	2008 TC_{183}	21.3	V		G96
2008 UP_{375}	2008 10 29.31594	00 55 09.62	+12 43 53.2	2008 TC_{183}	21.0	V		G96
2008 UP_{375}	2008 10 29.32281	00 55 09.40	+12 43 50.2	2008 TC_{183}	21.2	V		G96
2008 UP_{375}	2008 10 29.32960	00 55 09.12	+12 43 46.9	2008 TC_{183}	21.2	V		G96
2008 XN_{57}	*2008 12 04.20628	04 38 13.93	+22 27 54.7	2008 WR_{112}	20.5	V		691
2008 XN_{57}	2008 12 04.22770	04 38 12.64	+22 27 52.0	2008 WR_{112}	21.3	V		691
2008 XN_{57}	2008 12 04.24290	04 38 11.74	+22 27 49.5	2008 WR_{112}	20.8	V		691
2009 DQ_{145}	*2009 02 26.22157	07 55 49.15	+19 40 09.3	2007 TK_{260}	21.2	V		G96
2009 DQ_{145}	2009 02 26.22568	07 55 49.04	+19 40 10.3	2007 TK_{260}	21.3	V		G96
2009 DQ_{145}	2009 02 26.22979	07 55 48.97	+19 40 11.7	2007 TK_{260}	21.1	V		G96
2009 FV_{81}	*2009 03 19.22113	12 11 00.37	−01 03 10.3	2009 DX_{103}	21.1	V		691
2009 FV_{81}	2009 03 19.23638	12 10 59.62	−01 03 04.2	2009 DX_{103}	21.1	V		691

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2016 NG_{90}	2016 07 12.18182	17 01 09.29	−14 18 27.7	2010 HE_{94}	19.5	V	G96
2016 NG_{90}	2016 07 12.18709	17 01 09.12	−14 18 31.0	2010 HE_{94}	20.4	V	G96
2016 NG_{90}	2016 07 12.19237	17 01 08.91	−14 18 35.0	2010 HE_{94}	20.1	V	G96
2016 TG_{100}	*2016 10 06.49506	03 54 31.25	+32 46 31.8	2016 OT_5	20.7	V	G96
2016 TG_{100}	2016 10 06.49934	03 54 31.14	+32 46 33.4	2016 OT_5	20.2	V	G96
2016 TG_{100}	2016 10 06.50363	03 54 31.11	+32 46 36.4	2016 OT_5	20.4	V	G96
2016 TG_{100}	2016 10 06.50800	03 54 31.02	+32 46 39.3	2016 OT_5	20.5	V	G96
2016 TG_{100}	2016 10 14.50904	03 51 30.181	+33 58 23.91	2016 OT_5	20.2	i	F51
2016 TG_{100}	2016 10 14.52035	03 51 29.793	+33 58 29.57	2016 OT_5	20.1	i	F51
2016 TG_{100}	2016 10 14.53170	03 51 29.402	+33 58 35.45	2016 OT_5	20.3	i	F51
2016 TG_{100}	2016 10 14.54303	03 51 28.991	+33 58 40.93	2016 OT_5	20.3	i	F51
2017 AB_{25}	*2017 01 09.46388	13 05 20.93	−05 53 28.1	2001 FH_{180}	20.9	V	G96
2017 AB_{25}	2017 01 09.46828	13 05 21.07	−05 53 29.4	2001 FH_{180}	21.2	V	G96
2017 AB_{25}	2017 01 09.47260	13 05 21.29	−05 53 29.7	2001 FH_{180}	21.1	V	G96
2017 AB_{25}	2017 01 09.47691	13 05 21.44	−05 53 30.7	2001 FH_{180}	21.4	V	G96
2017 WG_{30}	*2017 11 23.46882	23 57 40.31	+24 45 34.2	2017 SL_{36}	20.0	R	D29
2017 WG_{30}	2017 11 23.48296	23 57 40.32	+24 45 33.9	2017 SL_{36}	20.6	R	D29

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 110130:

2001 XQ_{102}	= (520999)	2006 AG_{108}	= (522666)	2007 EY_{212}	= (520176)
2007 HU_{96}	= (519260)	2008 TB_{193}	= (464425)	2008 UN_{375}	= (278842)
2009 DQ_{145}	= (428968)	2009 WL_{268}	= (520262)	2010 EN_{150}	= (521153)
2010 HU_{60}	= (520065)	2012 AB_{13}	= (523152)	2013 CQ_{140}	= (523247)
2015 RL_3	= (523575)	2018 FR_7	= (521747)	2018 FN_{10}	= (521759)
2018 FX_{14}	= (521773)	2018 FZ_{16}	= (519401)	2018 FB_{17}	= (521419)
2018 FC_{18}	= (520142)	2018 FQ_{27}	= (520573)	2018 FR_{27}	= (520389)

NUMBERING OF PERIODIC COMETS

Continuation to the list on *MPC* 109640.

368P/2005 R1 = 2018 L3 (NEAT)
369P/2010 A1 = 2018 P1 (Hill)
370P/2001 T3 = 2018 P2 (NEAT)
371P/2001 R6 = 2018 R1 (LINEAR-Skiff)
372P/2008 O2 = 2018 P6 (McNaught)
373P/2011 W2 = 2018 R2 (Rinner)
374P/2007 V1 = 2018 S1 (Larson)

OBSERVATIONS OF COMETS (AND A/ OBJECTS)

Observations are published here for the following observatory codes:

033 Karl Schwarzschild Observatory, Tautenburg. Observers C. Hoegner, B. Stecklum. Measurer B. Stecklum. 1.34-m $f/3$ Schmidt + CCD.
048 Hradec Králové. Observer M. Lehký. 0.40-m $f/5$ reflector + CCD.
089 Nikolaev. Observers A. Pomazan, D. Bodryagin, F. Bushuev, M. Kaliuzny, V. Kryuchkovskiy. Measurers A. V. Pomazan, N. V. Maigurova. 0.5-m $f/6.0$ Maksutov + CCD.
094 Crimea-Simeïs. Observers A. Novichonok, Y. Krugly. 1.0-m $f/13$ reflector + CCD.
104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripieri, S. Sisi, M. Fragai, M. D. Grazia, G. Succi. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.6-m $f/4.0$ reflector + CCD, 0.60-m reflector + CCD.
106 Črni Vrh. Observer B. Mikuž. 0.6-m $f/3.3$ Deltagraph + CCD.
107 Cavezzo. Observers G. Corradini, R. Bonomi, M. Facchini, D. Losi, P. Negrelli. Measurers G. Corradini, R. Bonomi, D. Losi. 0.4-m $f/5.5$ reflector + CCD.
108 Montelupo. Observers M. Tombelli, S. Foglia, G. Interrante, T. Bitossi, M. Lombardo, A. Marku, L. Martinelli, G. Vettori, G. Interra. Measurers M. Tombelli, S. Foglia, G. Interrante, E. Masotti, M. Lombardo, Y. Mazzanti. 0.30-m $f/2.9$ Schmidt-Cassegrain + CCD.
113 Volkssternwarte Drebach, Schoenbrunn. Observers A. Knöfel, G. Lehmann. 0.5-m $f/4.6$ reflector + CCD.
118 Astronomical and Geophysical Observatory, Modra. Observer Š. Gajdoš. 0.6-m $f/5.5$ reflector + CCD.
151 Eschenberg Observatory, Winterthur. Observer M. Griesser. 0.6-m $f/3.8$ astrograph + CCD.
152 Moletai Astronomical Observatory. Observers K. Černis, H. Selevicius. Measurer K. Černis. 0.35-m $f/3.5$ 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, W. Vollmann. Measurer E. Prosperi. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.
193 Sanglok. Observers A. M. Buriev, U. K. Khamroev, S. K. Abdulloev.
198 Wildberg. Observer R. Apitzsch. 0.35-m $f/3.1$ reflector + CCD.
204 Schiaparelli Observatory. Observer L. Buzzi. 0.60-m $f/4.64$ reflector + CCD, 0.84-m $f/3.5$ reflector + CCD.
212 Observatorio La Dehesilla. Observer I. Almendros. 0.30-m $f/10$ Schmidt-Cassegrain + CCD.
213 Observatorio Montcabre. Observer R. Naves. Measurer M. Campas. 0.30-m $f/10$ Schmidt-Cassegrain.
215 Buchloe. Observer W. Hasubick. 0.44-m $f/4.6$ reflector + CCD.
238 Grorudalen Optical Observatory. Observer O. Trondal. 0.61-m Cassegrain + CCD.
246 Kleť Observatory-KLENOT. Observers M. Tichý, J. Tichá. Measurer M. Tichý. 1.06-m KLENOT Telescope + CCD.
247 Roving Observer. Observer G. Wells. Measurer D. Bamberger. 0.07-m $f/5.9$ refractor + CCD.
291 LPL/Spacewatch II. Observers J. V. Scotti, T. H. Bressi, M. J. Brucker. 1.8-m $f/2.7$ reflector + CCD.
309 Cerro Paranal. Observers M. Altmann, T. Prusti. Measurers C. Barache, S. Bouquillon, T. Carlucci, F. Taris. 2.6-m $f/5.5$ Ritchey-Chrétien + CCD.
323 Perth Observatory, Bickley. Observer P. Camilleri. 0.34-m $f/5$ reflector + CCD, 0.40-m $f/5$ reflector + CCD.
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.
372 Geisei. Observers T. Seki, S. Shimomoto. Measurers T. Seki, S. Shimomoto, H. Sato. 0.70-m $f/10$ reflector + $f/5$ focal reducer, 0.70-m $f/10$ reflector + CCD + $f/5$ focal reducer.

458 Guadarrama Observatory. Observer D. Rodríguez. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD.
461 University of Szeged, Piszkéstető Stn. (Konkoly). Observers O. Hanyecz, B. Ignacz, R. Szakats, A. Bodi, A. Pal, A. Ordasi, K. Sárneczky. Measurer K. Sárneczky. 1.02-m Ritchey-Chrétien + CCD, 0.60-m Schmidt + CCD.
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 K. Meech, J. Kleyna, J. V. Keane, K. J. Meech, D. Woodworth, L. Wells, R. Wainscoat, C. Wipper, A. Petric, C. Crowder, R. J. Wainscoat. Measurers J. V. Keane, M. Micheli, J. Kleyna, P. A. Wiegert, R. Weryk, R. Wainscoat, R. J. Wainscoat, Y. Ramanjooloo. 3.6-m Canada-France-Hawaii Telescope + CCD, 3.6-m Canada-France-Hawaii Telescope + MegaCam.
585 Kyiv comet station. Observers A. Baransky, O. Maznychenko, A. Kasianchuk, A. Simon, V. Vasylenko, V. Dziadyk, A. Slusarenko, B. Buzevskiy. Measurers A. Baransky, K. Zaritskiy, O. Bakaieva, A. Kasyanchuk, D. Bondar, V. Morgun, V. Tochonyy, V. Smolynec, V. Radomskiy. 0.7-m $f/4$ reflector + CCD.
587 Sormano. Observers P. Sicoli, A. Testa, A. Fumagalli, I. Proserpio. Measurer P. Sicoli. 0.5-m $f/6.8$ reflector + CCD.
595 Farra d'Isonzo. Observers E. Pettarin, U. Montanar, F. Piani. Measurers U. Montanar, E. Pettarin. 0.40-m $f/4.5$ reflector + CCD, 0.61-m $f/4.0$ reflector + CCD.
619 Sabadell. Observer C. Perello. 0.50-m $f/4$ Newtonian reflector + CCD.
628 Mülheim-Ruhr. Observers A. Martin, K. Kleemann-Boeker. Measurer A. Martin. 0.35-m $f/3.4$ reflector + CCD.
658 National Research Council of Canada. Observer D. D. Balam. 1.82-m reflector + CCD.
673 Table Mountain Observatory, Wrightwood. Observer W. Buehlman. Measurers M. Brewer, H. Rhoades. 1.0-m $f/15$ Cassegrain + CCD.
691 Steward Observatory, Kitt Peak-Spacewatch. Observers T. H. Bressi, A. F. Tubbiolo, J. V. Scotti, M. T. Read, R. A. Mastaler. 0.9-m $f/3$ reflector + CCD.
695 Kitt Peak. Observers J. V. Scotti, R. A. Mastaler. 2.3-m $f/9$ reflector + CCD.
703 Catalina Sky Survey. Observers B. M. Africano, J. A. Johnson, R. A. Kowalski, D. C. Fuls, G. J. Leonard, H. Groeller, E. J. Christensen. Measurers B. M. Africano, E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. L. Seaman, F. C. Shelly. 0.68-m Schmidt + 10K CCD.
711 McDonald Observatory, Fort Davis. Observers G. van Biesbroeck, J. G. Ries. Measurers M. Meyer, G. W. Kronk, J. G. Ries. 0.25-m astrograph, 2.1-m reflector + CCD + focal reducer.
734 Farpoint Observatory, Eskridge. Observer G. Hug. 0.69-m reflector + 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. 1.00-m $f/10.0$ astrograph + CCD, 0.61-m $f/10.0$ astrograph + CCD, 0.61-m $f/6.5$ astrograph + CCD.
850 Cordell-Lorenz Observatory, Sewanee. Observer D. T. Durig. Measurers D. T. Durig, A. A. Carr, J. M. Vaughn, W. H. Johnson, K. C. Lugo, E. A. Carter. 0.3-m $f/7.6$ Schmidt-Cassegrain + 1536x1024 CCD, 0.3-m $f/9.4$ Schmidt-Cassegrain + 3072x2048 CCD.
900 Moriyama. Observer Y. Ikari. 0.26-m $f/7.0$ reflector + CCD.
926 Tenagra II Observatory, Nogales. Observers M. Schwartz, P. R. Holvorcem. Measurer M. Schwartz. 0.81-m $f/7$ Ritchey-Chrétien + CCD.
970 Chelmsford. Observer N. James. 0.28-m $f/10$ Schmidt-Cassegrain + CCD.
987 Isle of Man Observatory, Foxdale. Observer D. Storey. 0.4-m Schmidt-Cassegrain + CCD.
A17 Guidestar Observatory, Weinheim. Observers M. Emmerich, S. Melchert. 0.36-m $f/6$ Schmidt-Cassegrain + CCD.
A58 Observatoire de Chalandray-Canotiers. Observer J. B. de Vanssay. 0.16-m $f/3.3$ reflector + CCD.
A71 Stixendorf. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann, D. Moller. Measurer M. Jaeger. 0.3-m $f/4$ reflector + CCD, 0.4-m $f/3.5$ reflector + CCD.
A77 Observatoire Chante-Perdrix, Dauban. Observers J. Nicolas, A. Klotz, F. Kugel, C. Rinner, J.-F. Soulier. Measurers J. Nicolas, F. Kugel, J.-F. Soulier. 0.41-m $f/3.3$ reflector + CCD, 0.20-m $f/4$ Schmidt-Cassegrain + CCD, 0.20-m $f/2$ Schmidt-Cassegrain + CCD, 0.06-m $f/5.8$ refractor + CCD, 0.4-m $f/3$ reflector + CCD, 0.20-m $f/4$ Newtonian reflector + CCD.
A98 Observatory Mazzarot-1, Baran'. Observer S. Shurpakov. 0.20-m $f/4$ Schmidt-Newtonian + CCD, 0.20-m $f/4$ Schmidt + CCD.
B18 Terskol. Observers V. Kozlov, V. Godunova, I. Izvekova, O. Sergeev, A. Simon. Measurers V. Kozlov, A. Simon. 0.6-m $f/12.8$ Cassegrain + CCD, 0.6-m $f/12.9$ Cassegrain + CCD.
B37 Obs. de L' Ametlla del Valles, Barcelona. Observer A. Garrigós. 0.51-m $f/4$ reflector + CCD.
B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m $f/4$ Newtonian reflector + CCD.
B50 Corner Observatory, Durmersheim. Observer J. Linder. 0.20-m $f/9.7$ Schmidt-Cassegrain + CCD.
B53 Casal Lumbroso, Rome. Observer D. Pivato. 0.19-m $f/4$ reflector + CCD, 0.25-m $f/5$ reflector + CCD.
B54 Ager. Observer J. Bel. 0.30-m $f/10.28$ Schmidt-Cassegrain + CCD.
B67 Sternwarte Mirasteilas, Falera. Observer J. De Queiroz. 0.90-m $f/6.7$ reflector + CCD.
B69 Owls and Ravens Observatory, Holzgerlingen. Observer S. Beck. 0.20-m $f/2.8$ Newtonian reflector + CCD.
B70 Sant Celoni. Observer L. Montoro. 0.28-m $f/7.25$ Schmidt-Cassegrain + CCD.
B74 Santa Maria de Montmagastrell. Observer J. M. Bosch. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.
B96 Brixiis Observatory, Kruibeke. Observer E. Bryssinck. 0.4-m $f/3.8$ astrograph + CCD, 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.
C27 Pallerols. Observer A. Jorba. 0.36-m $f/8$ Ritchey-Chrétien + CCD.
C36 Starry Wanderer Observatory, Baran'. Observer S. Shurpakov. 0.15-m $f/3.2$ Newtonian reflector + CCD, 0.25-m $f/4.7$ Newtonian 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, J. W. Dailey, R. M. Cutri, E. L. Wright, S. Sonnett, E. Kramer, J. P. Chesley, C. Nugent.

C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m $f/4.0$ reflector + CCD, 0.25-m $f/1000.0$ reflector + CCD.

C86 Blanes. Observer J. Gaitan. 0.24-m $f/6.8$ reflector.

C90 Vinyols. Observer L. Tremosa. 0.30-m $f/5$ reflector + CCD.

C95 SATINO Remote Observatory, Haute Provence. Observer J. Jahn. 0.60-m $f/3.2$ Newtonian reflector + CCD.

C97 Al-Fulaij Observatory, Oman. Observer M. Al-Bussaidi.

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. 1.04-m $f/1.8$ Schmidt + CCD.

D35 Lulin Observatory. Observers C.-H. Hsia, M.-T. Hui, C.-S. Lin, H.-C. Lin, Q.-Z. Ye, X. Gao, Z.-Y. Lin, H.-Y. Hsiao, Y. Liao, W.-H. Ip. Measurer M.-T. Hui. 1.0-m $f/8$ Cassegrain + CCD, 0.6-m $f/8$ Ritchey-Chrétien + CCD.

D81 Nagano. Observer Y. Ohshima. , 0.30-m $f/4.6$ reflector + CCD.

D95 Kurihara. Observer T. Takahashi. 0.25-m $f/4.2$ reflector + CCD.

E23 Arcadia. Observer A. Hidas. 0.35-m $f/1.9$ reflector + CCD.

E85 Farm Cove. Observer J. McCormick. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.

E89 Geyserland Observatory, Pukehangi. Observer R. Carstens. 0.25-m Schmidt-Cassegrain + CCD.

E94 Possum Observatory, Gisborne. Observer J. Drummond. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.

F51 Pan-STARRS 1, Haleakala. Observers J. Bulger, T. Lowe, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Magnier, Y. Ramanjooloo, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chrétien + CCD.

F52 Pan-STARRS 2, Haleakala. Observers J. Bulger, T. Dukes, T. Lowe, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Magnier, Y. Ramanjooloo, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chrétien + CCD.

F65 Haleakala-Faulkes Telescope North. Observers J. D. Armstrong, C. A. Crawford, E. J. Bloyer, R. J. Matsumoto, A. T. Chyba-Rabeendran. 2.0-m $f/10$ reflector + CCD.

G26 Fushan Observatory, Mt Shaohua. Observer W. Pei. 0.28-m $f/2$ Schmidt-Cassegrain + CCD.

G33 Wickede. Observer G. Neue. 0.1-m Schmidt-Cassegrain + CCD.

G40 Slooh.com Canary Islands Observatory. Observers N. Paul, B. Lütkenhöner, P. Cox, A. Kocsis, A. Nagy Melykuti, K. Sárneczky, T. Zalezsak, J. Tuten, K. Dankov, G. Gašparović, J. Waterworth, M. Suzuki, Y. Chen. Measurers N. Paul, B. Lütkenhöner, A. Kocsis, A. Nagy Melykuti, K. Sárneczky, T. Zalezsak, K. Dankov, G. Gašparović, Y. Chen, G. Y. Gasparovic, M. Suzuki. , 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.51-m reflector + CCD, 0.36-m $f/11$ Schmidt-Cassegrain + CCD, 0.36-m Schmidt-Cassegrain + CCD, 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD.

G96 Mt. Lemmon Survey. Observers B. M. Africano, A. D. Grauer, G. J. Leonard, R. A. Kowalski, H. Groeller, E. J. Christensen, J. A. Johnson, D. C. Fuls. Measurers B. M. Africano, E. J. Christensen, G. A. Farneth, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. L. Seaman, F. C. Shelly. 1.5-m reflector + 10K CCD.

H01 Magdalena Ridge Observatory, Socorro. Observers W. H. Ryan, E. V. Ryan. Measurer W. H. Ryan. 2.4-m $f/8.9$ reflector + CCD.

H06 iTelescope Observatory, Mayhill. Observers E. Bryssinck, W. Clark, S. M. Tilley, A. S. Betzler, M. Mattiazzo, H. Sato, P. S. Lau, B. Lütkenhöner, M. Suzuki, M. Urbanik. 0.43-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, , 0.50-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.25-m $f/3.4$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD, 0.50-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.25-m $f/3.4$ reflector + CCD, 0.43-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer.

H15 ISON-NM Observatory, Mayhill. Observer L. Elenin. 0.4-m $f/3$ reflector + CCD.

H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers S. Foglia, L. Buzzi, T. Linder, R. Holmes. 0.61-m $f/4.5$ astrograph + CCD, 0.81-m $f/4.0$ astrograph + CCD.

H36 Sandlot Observatory, Scranton. Observer G. Hug. 0.56-m reflector + CCD.

H47 Vicksburg. Observer C. Bell. 0.3-m $f/6.6$ Schmidt-Cassegrain + CCD, 0.3-m Schmidt-Cassegrain + CCD.

I11 Gemini South Observatory, Cerro Pachon. Observers J. Masiero, J. Chavez, M. Gomez. Measurer J. Masiero. 8.0-m reflector.

I15 Wishing Star Observatory, Barrington. Observer H. Peterson. 0.35-m $f/10$ Schmidt-Cassegrain + CCD + $f/5.87$ focal reducer.

I17 Thomas G. Cupillari Observatory, Fleetville. Observer J. Sabia. 0.5-m $f/8.1$ Ritchey-Chrétien + CCD.

I19 Observatorio El Gato Gris, Tanti. Observer C. Colazo. 0.36-m $f/10.70$ Schmidt-Cassegrain + CCD.

I39 Observatorio Cruz del Sur, San Justo. Observer A. Chapman. 0.20-m $f/4$ reflector + CCD.

I41 Palomar Mountain–ZTF. Observer A. U. Tomatic. Measurers Q.-Z. Ye, F. Masci. 1.2-m $f/2.4$ Schmidt, 1.2-m Schmidt.

I47 Pierre Auger Observatory, Malargüe. Observers M. Masek, J. Ebr, P. Janecek, R. Cunniffe. Measurer M. Masek. 0.3-m $f/10$ reflector + CCD, 0.3-m $f/6.8$ reflector + CCD.

I52 Steward Observatory, Mt. Lemmon Station. Observers D. C. Fuls, A. R. Gibbs, B. M. Africano, G. J. Leonard, R. A. Kowalski, J. A. Johnson, H. Groeller, E. J. Christensen. Measurers B. M. Africano, 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. L. Seaman, F. C. Shelly, H. Groeller, G. A. Farneth. 1.0-m reflector + CCD.

I72 Observatorio Carpe-Noctem, Madrid. Observer J. L. Martin. 0.30-m Ritchey-Chrétien + CCD.

I81 Tarbatness Observatory, Portmahomack. Observer D. Buczynski. 0.35-m Schmidt-Cassegrain + CCD + $f/6$ focal reducer.

I89 iTelescope Observatory, Nerpio. Observers A. S. Betzler, E. Bryssinck. 0.43-m $f/6.8$ astrograph + CCD, 0.43-m $f/6.8$ reflector + CCD, 0.15-m $f/7.3$ refractor + CCD.

J01 Observatorio Cielo Profundo, Leon. Observer J. Gonzalez. 0.15-m $f/6$ Ritchey-Chrétien + CCD, 0.15-m $f/9$ Ritchey-Chrétien + CCD, 0.23-m $f/7$ Schmidt-Cassegrain + CCD.

J04 ESA Optical Ground Station, Tenerife. Observers D. Abreu, P. Ruiz. Measurers E. Schwab, M. Micheli, D. Koschny, A. Knöfel, M. Busch. 1.0-m $f/4.4$ reflector + CCD.

J22 Tacande Observatory, La Palma. Observer K. Hills. 0.5-m $f/2.9$ astrograph + CCD.
J27 El Guijo Observatory. Observer A. San Segundo. 0.30-m $f/4$ reflector + CCD.
J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m $f/8.1$ Ritchey-Chrétien + CCD.
J43 Oukaïmeden Observatory, Marrakech. Observer C. Rinner. 0.5-m $f/3$ reflector + CCD.
J69 North Observatory, Clanfield. Observer D. Briggs. 0.41-m $f/4.5$ Newtonian reflector + CCD.
J77 Golden Hill Observatory, Stourton Caundle. Observer R. Miles. 0.35-m $f/8$ Schmidt-Cassegrain + CCD.
J87 La Cañada. Observer J. Lacruz. 0.40-m Ritchey-Chrétien + CCD.
J95 Great Shefford. Observer P. Birtwhistle. 0.41-m $f/6.3$ Schmidt-Cassegrain + CCD, 0.40-m $f/6.0$ Schmidt-Cassegrain + CCD.
K02 Eastwood Observatory, Leigh on Sea. Observer P. Carson. 0.32-m reflector + CCD + $f/5.4$ focal reducer.
K08 Observatorio Lledoner, Vallirana. Observer E. Sanchez. 0.30-m $f/6.3$ Schmidt-Cassegrain + CCD.
K14 Observatorio de Sencelles. Observer M. Morales. 0.25-m $f/3.3$ Schmidt-Cassegrain + CCD, 0.25-m $f/3$ Schmidt-Cassegrain + CCD.
K19 PASTIS Observatory, Banon. Observer C. Demeautis. Measurers C. Demeautis, R. Behrend.
K21 Saint-Saturnin-lès-Avignon. Observer H. Boussier. 0.20-m $f/6.2$ Schmidt-Cassegrain + CCD.
K22 Les Barres Observatory, Lamanon. Observer M. Deldem. 0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.4$ focal reducer.
K32 Maritime Alps Observatory, Cuneo. Observer G. Locatelli. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD.
K38 M57 Observatory, Saltrio. Observer G. Baj. 0.30-m $f/5.5$ Ritchey-Chrétien + CCD, 0.3-m $f/5.5$ Ritchey-Chrétien + CCD.
K40 Altdorf. Observer S. Beck. 0.20-m $f/2.8$ Newtonian reflector + CCD.
K41 Vegaquattro Astronomical Observatory, Novi Ligure. Observer V. Luna. 0.3-m Schmidt-Cassegrain + CCD.
K61 Rokycany Observatory. Observer M. Adamovsky. 0.51-m $f/6.8$ reflector + CCD.
K63 G. Pascoli Observatory, Castelvecchio Pascoli. Observer R. Bacci. 0.41-m $f/3.2$ Newtonian reflector + CCD.
K73 Gravina in Puglia. Observer F. Taccogna. 0.15-m $f/2.56$ reflector + CCD.
K74 Muensterschwarzach Observatory, Schwarzach. Observer C. Gerhard. 0.30-m $f/4.6$ Newtonian reflector + CCD, 0.18-m $f/5$ refractor + CCD.
K77 EHB01 Observatory, Engelhardsberg. Observer R. Fichtl. 0.40-m $f/2.6$ reflector + CCD.
K83 Beppe Forti Astronomical Observatory, Montelupo. Observers L. Grazzini, M. Tombelli, M. Lombardo, S. Bartolini, Y. Mazzanti. Measurers L. Grazzini, M. Tombelli, M. Lombardo, S. Foglia, S. Bartolini, A. Mazzanti. 0.25-m Newtonian reflector + CCD, 0.30-m $f//6.2$ Ritchey-Chrétien + CCD.
K87 Dettelbach Vineyard Observatory. Observer B. Haeusler. 0.30-m Schmidt-Cassegrain + CCD.
K88 GINOP-KHK, Piszkéstető. Observers K. Sárneczky, A. Bodi, O. Hanyecz, R. Szakats. Measurer K. Sárneczky. 0.60-m Schmidt + CCD, 1.02-m Ritchey-Chrétien + CCD.
K97 Freconrupt. Observer P. Ditz. 0.20-m $f/7.45$ reflector + CCD.
L01 Višnjan Observatory, Tican. Observers K. Korlević, G. Kervina, F. Hrzenjak, E. Pettarin, A. Dragovic, D. Ivanic, M. Rakitic, L. Gelo, J. Minic, D. Vida, I. Lyon. Measurers K. Korlević, E. Pettarin, D. Vida. 1.0-m $f/2.9$ reflector + CCD.
L04 ROASTERR-1 Observatory, Cluj-Napoca. Observer L. Hudin. 0.3-m $f/5$ reflector + CCD.
L05 Dridri Observatory, Franciacorta. Observer C. Ghidetti.
L07 Osservatorio Salvatore di Giacomo, Agerola. Observer A. Noschese. 0.5-m $f/8.0$ Ritchey-Chrétien + CCD.
L12 Koksijde. Observer G. Vandenbulcke.
L17 Observatori Astronòmic Albanyà. Observer P. Guerra.
L27 ¡no name¿. Observer J.-F. Soulier. 0.20-m $f/4$ Newtonian reflector + CCD.
L29 ¡no name¿. Observer G. Lehmann. 0.4-m $f/3.6$ reflector + CCD.
L30 ¡no name¿. Observer T. Zilch. 0.3-m $f/4$ reflector + CCD.
L51 MARGO, Nauchnij. Observer G. Borisov. Measurer A. Novichonok. 0.3-m $f/2$ astrograph + CCD.
N55 Corona Borealis Observatory, Ngari. Observers P. Sun, T. Chen. Measurer P. Sun. 0.3-m $f/7.2$ reflector + CCD.
P93 Space Tracking and Communications Center, JAXA. Observers S. Urakawa, T. Fujiwara. 1.0-m $f/3.0$ reflector + CCD.
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 ¡no name¿. Observer H. Sato. 0.25-m $f/4$ reflector + CCD.
Q38 Swan Hill. Observer M. Mattiazzo.
Q62 iTelescope Observatory, Siding Spring. Observers H. Sato, D. Storey, G. van Buitenen, R. Ligustri, M. Mattiazzo, W. Clark, B. Lütkenhöner, M. Suzuki, S. M. Tilley, D. Denisenko, I. Larin, E. Bryssinck, M. Urbanik, G. Baj, G. Crinklaw, E. Guido. 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.43-m Corrected Dall-Kirkham + CCD, , 0.43-m $f/6.3$ astrograph + CCD, 0.43-m $f/6.8$ refractor + CCD, 0.50-m $f/6.8$ reflector + CCD + focal reducer, 0.51-m $f/4.5$ astrograph + CCD, 0.50-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.43-m $f/6.8$ reflector + CCD, 0.70-m $f/6.6$ reflector + CCD, 0.51-m $f/4.5$ Ritchey-Chrétien + CCD, 0.43-m $f/6.8$ astrograph + CCD, 0.4-m $f/3.5$ reflector + CCD.
Q67 JBL Observatory, Bathurst. Observers J. Oey, P. Camilleri. Measurer P. Camilleri.
Q68 Blue Mountains Observatory, Leura. Observers P. Camilleri, H. Williams. Measurer P. Camilleri. 0.30-m $f/3.0$ reflector + CCD.
T05 ATLAS-HKO, Haleakala. Observers L. Denneau, H. Flewelling, A. Heinze, H. Weiland, J. Tonry. Measurers L. Denneau, H. Flewelling, A. Heinze, J. Tonry, A. Fitzsimmons, D. Young, B. Stalder. 0.5-m $f/2.0$ Schmidt + CCD.
T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, H. Flewelling, A. Heinze, H. Weiland, J. Tonry. Measurers L. Denneau, H. Flewelling, A. Heinze, J. Tonry, A. Fitzsimmons, D. Young, B. Stalder. 0.5-m $f/2.0$ Schmidt + CCD.
T12 Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m). Observer D. J. Tholen. 2.24-m $f/10.1$ reflector + CCD.
U63 Burnt Tree Hill Observatory, Cle Elum. Observer B. Van Deventer. 0.4-m $f/10$ Schmidt-Cassegrain + CCD.

U69 iTelescope SRO Observatory, Auberry. Observers B. Lütkenhöner, M. Suzuki, H. Sato, M. Mattiazzo. 0.61-m $f/6.5$ reflector + CCD, 0.61-m $f/6.5$ astrograph + CCD.
V03 Big Water. Observer D. Rankin. 0.30-m reflector + CCD.
V06 Catalina Sky Survey-Kuiper. Observer D. C. Fuls. 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. 1.55-m reflector + CCD.
W25 RMS Observatory, Cincinnati. Observer B. Rowe. 0.35-m $f/7.0$ Schmidt-Cassegrain + CCD.
W34 Squirrel Valley Observatory, Columbus. Observer R. L. Flynn. 0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.0$ focal reducer.
W85 Cerro Tololo-LCO A. Observers D. Bodewits, T. Farnham, T. Lister. Measurer M. Micheli. 1.0-m $f/8$ Ritchey-Chrétien + CCD.
W87 Cerro Tololo-LCO C. Observers D. Bodewits, T. Farnham, T. Lister. Measurer M. Micheli. 1.0-m $f/8$ Ritchey-Chrétien + CCD, .
W88 Slooh.com Chile Observatory, La Dehesa. Observers P. Cox, B. Lütkenhöner, G. Gašparović, A. Kocsis, A. Nagy Melykuti, K. Sárneczky, T. Zalezsak, N. Paul, M. Suzuki, A. J. Evans, K. Dankov. Measurers B. Lütkenhöner, G. Gašparović, A. Kocsis, A. Nagy Melykuti, K. Sárneczky, T. Zalezsak, N. Paul, M. Suzuki, A. J. Evans, K. Dankov. 0.35-m $f/11$ Schmidt-Cassegrain + CCD, 0.36-m Schmidt-Cassegrain + CCD, , 0.35-m $f/11$ Schmidt + CCD.
W92 MASTER-OAFA Observatory, San Juan. Observers S. M. Bodrov, V. Lipunov, T. Pogrosheva, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, A. Kuznetsov, V. Chazov, C. Lopez, F. Podesta, H. Levato, C. Saffe. 0.4-m $f/2.5$ reflector + CCD.
W96 CAO, San Pedro de Atacama (since 2013). Observers A. Maury, J.-B. de Vanssay, J.-F. Soulier, J.-G. Bosch, T. Noel. Measurers J.-F. Soulier, J.-G. Bosch, T. Noel. 0.4-m $f/5$ Ritchey-Chrétien + CCD, 0.4-m $f/5.4$ Ritchey-Chrétien + CCD, 0.4-m $f/5.2$ Ritchey-Chrétien + CCD.
W98 SDA Observatory, San Pedro de Atacama. Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski. Measurers R. Reszelewski, M. Kusiak. 0.25-m $f/3.6$ reflector + CCD.
X74 Observatório Campo dos Amarais. Observer L. S. Amaral. Measurers P. R. Holvorcem, L. S. Amaral. 0.31-m $f/2.9$ Newtonian reflector + CCD, 0.3-m $f/4$ reflector + CCD.
XXX ¡no name¿. Observer J.-F. Soulier. Measurers J.-F. Soulier, Q.-Z. Ye. 0.20-m $f/4$ Newtonian reflector + CCD, 0.68-m $f/3.7$ Schmidt + CCD.
Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros. Measurer C. Jacques. 0.45-m $f/2.9$ reflector + CCD, 0.28-m $f/2.2$ astrograph + CCD.
Y28 OASI, Nova Itacuruba. Observers F. Monteiro, P. Arcoverde, E. Rondon, D. Lazzaro, R. Souza, T. Rodrigues. Measurer M. Micheli. 1.0-m $f/7$ reflector + CCD.
Z18 Gran Telescopio Canarias, Roque de los Muchachos. Observer C. Cazasteroides. Measurer C. Benasoft.
Z37 Northolt Branch Observatory 3, Blandford Forum. Observer G. Wells. Measurer D. Bamberger. 0.15-m $f/10$ Schmidt-Cassegrain + CCD.
Z39 Observatorio Costa Teguise. Observer A. Acosta. Measurers A. Sofia, A. Silvia. 0.23-m $f/6$ Schmidt-Cassegrain + CCD, 0.23-m Schmidt-Cassegrain + CCD, 0.20-m Schmidt-Cassegrain + CCD.
Z43 Landehen. Observer C. Ratinaud. 0.25-m $f/4.7$ reflector + CCD + GPS-tagged video.
Z50 Mazariegos. Observer F. Limon. 0.20-m $f/0.78$ Schmidt-Cassegrain + CCD.
Z55 Uraniborg Observatory, Écija. Observer R. Farfan. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.
Z80 Northolt Branch Observatory. Observer G. Wells. Measurers D. Bamberger, G. Wells. 0.25-m $f/8$ Ritchey-Chrétien + CCD, 0.25-m $f/8.0$ Ritchey-Chrétien + CCD.
Z92 West Park Observatory, Leeds. Observer A. R. Pratt. 0.28-m $f/10$ Schmidt-Cassegrain + CCD + $f/3.3$ focal reducer.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
			X/1951 G1				
X/1951 G1	1951 04	02.17361	12 07 37.90	+13 19 52.5	15.3	T	711
X/1951 G1	1951 04	02.22292	12 07 36.28	+13 19 49.4	14.9	T	711
			X/1951 G2				
X/1951 G2	1951 04	09.21597	13 09 03.16	−02 10 10.6	15.5	T	711
X/1951 G2	1951 04	09.26597	13 08 57.93	−02 09 42.3	15.7	T	711
			X/1951 K1				
X/1951 K1	1951 05	28.18958	15 34 01.91	−37 37 12.4	15.2	T	711
X/1951 K1	1951 05	28.24792	15 34 09.98	−37 34 21.2	15.2	T	711
			C/2010 B1 (Cardinal)				
C/2010 B1	2012 04	18.59858	01 08 20.24	−65 11 19.4	18.8	N	N43
C/2010 B1	2012 04	18.59932	01 08 20.28	−65 11 19.2	18.9	N	N43
C/2010 B1	2012 04	20.57667	01 09 53.12	−65 16 58.0	18.9	N	N43
C/2010 B1	2012 04	20.57741	01 09 52.90	−65 16 58.6	18.3	N	N43
C/2010 B1	2012 04	21.56526	01 10 38.91	−65 20 04.9	19.3	N	N43
C/2010 B1	2012 04	21.56600	01 10 39.02	−65 20 05.3	18.8	N	N43
			C/2010 S1 (LINEAR)				
C/2010 S1	2012 08	27.16584	21 47 10.89	+55 54 00.1			24 I89
C/2010 S1	2012 08	27.17117	21 47 10.40	+55 53 58.3			24 I89
C/2010 S1	2012 08	27.17707	21 47 09.81	+55 53 56.3			24 I89
			C/2010 U3 (Boattini)				
C/2010 U3	2018 05	01.88034	06 30 53.27	+71 53 14.4	17.5	N	I72
C/2010 U3	2018 05	01.89858	06 30 54.76	+71 53 11.4	17.5	N	I72
C/2010 U3	2018 05	01.91678	06 30 56.11	+71 53 07.5	17.6	N	I72
C/2010 U3	2018 05	10.19118	06 42 28.66	+71 30 06.2			5 U69
C/2010 U3	2018 05	10.19479	06 42 28.95	+71 30 05.4	17.0	w	5 U69
C/2010 U3	2018 05	10.29128	06 42 37.37	+71 29 50.1	18.3	o	T05
C/2010 U3	2018 05	10.30020	06 42 37.99	+71 29 48.2	18.1	o	T05
C/2010 U3	2018 05	10.30857	06 42 38.73	+71 29 46.6	18.3	o	T05
C/2010 U3	2018 05	10.31693	06 42 39.41	+71 29 44.4	17.3	o	T05
C/2010 U3	2018 05	10.84631	06 43 25.18	+71 28 18.0	17.1	N	K 585
C/2010 U3	2018 05	10.84702	06 43 25.20	+71 28 18.0	17.0	N	K 585
C/2010 U3	2018 05	10.84772	06 43 25.45	+71 28 17.9	17.0	N	K 585
C/2010 U3	2018 05	10.84843	06 43 25.45	+71 28 18.1	17.1	N	K 585
C/2010 U3	2018 05	10.84914	06 43 25.50	+71 28 17.8	17.1	N	K 585
C/2010 U3	2018 05	10.84985	06 43 25.64	+71 28 18.1	17.2	N	K 585
C/2010 U3	2018 05	10.85056	06 43 25.73	+71 28 18.3	17.2	N	K 585
C/2010 U3	2018 05	10.85126	06 43 25.79	+71 28 18.2	17.2	N	K 585

C/2010 U3	2018 05 10.85339	06 43 25.97	+71 28 16.5	17.1	N	K	585
C/2010 U3	2018 05 10.85410	06 43 25.79	+71 28 16.5	17.1	N	K	585
C/2010 U3	2018 05 31.83945	07 15 19.49	+70 33 22.6	17.1	N	K	585
C/2010 U3	2018 05 31.84221	07 15 19.75	+70 33 22.6	17.2	N	K	585
C/2010 U3	2018 05 31.84350	07 15 20.12	+70 33 23.6	17.3	N	K	585
C/2010 U3	2018 05 31.84414	07 15 19.99	+70 33 23.1	17.3	N	K	585
C/2010 U3	2018 05 31.84479	07 15 20.07	+70 33 22.2	17.3	N	K	585
C/2010 U3	2018 06 04.98346	07 21 55.96	+70 23 02.9	17.7	R		B96
C/2010 U3	2018 06 04.98509	07 21 56.01	+70 23 02.6	17.4	R		B96
C/2010 U3	2018 06 04.98672	07 21 56.79	+70 23 02.3	17.8	R		B96
C/2010 U3	2018 06 04.98836	07 21 56.73	+70 23 01.9	17.6	R		B96
C/2010 U3	2018 08 03.05057	09 00 02.13	+68 14 13.7	16.9	N	K	K02
C/2010 U3	2018 08 03.05677	09 00 02.85	+68 14 13.2	17.9	N	K	K02
C/2010 U3	2018 08 05.04600	09 03 19.85	+68 10 44.4	17.7	N	K	K02
C/2010 U3	2018 08 05.05374	09 03 20.49	+68 10 43.0	17.6	N	K	K02
C/2010 U3	2018 08 05.97083	09 04 50.84	+68 09 09.8	17.8	N		I72
C/2010 U3	2018 08 05.98618	09 04 52.52	+68 09 07.2	17.5	N		I72
C/2010 U3	2018 08 06.00123	09 04 53.82	+68 09 05.9	17.6	N		I72
C/2010 U3	2018 08 07.96594	09 08 07.91	+68 05 48.2	17.7	N		I72
C/2010 U3	2018 08 07.98091	09 08 09.15	+68 05 46.0	17.7	N		I72
C/2010 U3	2018 08 07.99569	09 08 10.73	+68 05 42.3	17.6	N		I72
C/2010 U3	2018 08 08.06427	09 08 17.63	+68 05 36.7	16.9	N		I81
C/2010 U3	2018 08 08.06861	09 08 18.04	+68 05 36.3	17.1	N		I81
C/2010 U3	2018 08 08.07151	09 08 18.40	+68 05 36.3	17.1	N		I81
C/2010 U3	2018 08 09.08675	09 09 58.18	+68 03 55.1	17.0	N	K	I81
C/2010 U3	2018 08 09.08892	09 09 58.50	+68 03 54.9	16.9	N	K	I81
C/2010 U3	2018 08 09.09109	09 09 58.81	+68 03 54.6	16.9	N	K	I81
C/2010 U3	2018 08 14.86722	09 19 24.04	+67 54 50.0	17.9	N		I72
C/2010 U3	2018 08 14.88678	09 19 25.95	+67 54 49.1	18.0	N		I72
C/2010 U3	2018 08 14.90596	09 19 27.84	+67 54 46.6	18.0	N		I72
C/2010 U3	2018 08 31.07200	09 45 16.30	+67 34 15.6	18.0	N		I81
C/2010 U3	2018 08 31.07562	09 45 16.63	+67 34 15.5	17.4	N	K	I81
C/2010 U3	2018 08 31.07634	09 45 16.70	+67 34 15.7	17.8	N		I81
C/2010 U3	2018 08 31.07924	09 45 17.00	+67 34 15.2	17.7	N		I81
C/2010 U3	2018 09 02.08392	09 48 24.97	+67 32 17.7	17.1	N		I81
C/2010 U3	2018 09 02.08827	09 48 25.40	+67 32 17.1	17.3	N		I81
C/2010 U3	2018 09 02.09116	09 48 25.62	+67 32 16.0	17.3	N		I81
C/2010 U3	2018 09 09.14483	09 59 19.66	+67 26 30.0	18.3	R	K	215
C/2010 U3	2018 09 09.14586	09 59 19.73	+67 26 30.3	18.6	R	K	215
C/2010 U3	2018 09 09.14688	09 59 19.82	+67 26 29.9	18.1	R	K	215
C/2010 U3	2018 09 12.07016	10 03 46.24	+67 24 38.9	16.9	N	K	I81
C/2010 U3	2018 09 12.07377	10 03 46.47	+67 24 38.8	17.2	N	K	I81
C/2010 U3	2018 09 12.07739	10 03 46.79	+67 24 38.6	17.2	N	K	I81

C/2011 KP$_{36}$ (Spacewatch)

C/2011 KP$_{36}$	2018 08 23.80243	05 07 13.91	+04 55 37.1			1	Q62
C/2011 KP$_{36}$	2018 08 23.80613	05 07 14.01	+04 55 36.2	17.8	G	1	Q62

C/2012 K6 (McNaught)

C/2012 K6	2012 04 20.98190	22 28 21.55	−58 12 43.7	19.3	N		N43
C/2012 K6	2012 04 20.98264	22 28 21.56	−58 12 45.1	19.1	N		N43
C/2012 K6	2012 04 21.95678	22 28 39.60	−58 21 50.4	19.1	N		N43
C/2012 K6	2012 04 21.95752	22 28 38.96	−58 21 51.4	18.9	N		N43

C/2013 C2 (Tenagra)

C/2013 C2	2018 06 21.16677	15 27 27.39	−22 46 39.0	19.7	V		691
C/2013 C2	2018 06 21.18245	15 27 27.19	−22 46 37.8	19.9	V		691
C/2013 C2	2018 06 21.19814	15 27 26.97	−22 46 35.7	19.5	V		691
C/2013 C2	2018 07 02.95383	15 25 31.11	−22 26 13.5	19.4	N	9	G40
C/2013 C2	2018 07 02.96987	15 25 30.92	−22 26 11.8	19.5	N	9	G40

C/2013 P3 (Palomar)

C/2013 P3	2018 06 24.79639	02 05 34.69	−49 41 49.4			1	Q62
C/2013 P3	2018 06 24.79973	02 05 34.78	−49 41 50.5	19.1	w	1	Q62

P/2013 R3 (Catalina-PANSTARRS)

P/2013 R3-A	2018 08 29.73752	20 44 06.44	−18 40 40.1	18.1	N		C97
P/2013 R3-A	2018 08 29.74119	20 44 06.63	−18 40 43.2	16.9	N		C97
P/2013 R3-B	2018 08 29.73752	20 43 38.87	−18 42 41.8	17.7	N		C97
P/2013 R3-B	2018 08 29.74119	20 43 39.28	−18 42 39.1	17.7	N		C97

C/2013 V4 (Catalina)

C/2013 V4	2018 06 03.21476	14 36 45.16	+46 54 43.2	19.77g			I41
C/2013 V4	2018 06 03.24168	14 36 44.37	+46 54 35.6	19.66g			I41
C/2013 V4	2018 06 03.28887	14 36 42.97	+46 54 21.1	19.12r			I41
C/2013 V4	2018 06 03.29818	14 36 42.70	+46 54 18.0	19.24r			I41
C/2013 V4	2018 06 03.31721	14 36 42.15	+46 54 12.1	19.33r			I41
C/2013 V4	2018 06 04.64033	14 36 03.81	+46 47 29.9			K	D81
C/2013 V4	2018 06 04.64414	14 36 03.65	+46 47 27.9			K	D81
C/2013 V4	2018 06 04.65176	14 36 03.37	+46 47 24.2	17.9	T	K	D81
C/2013 V4	2018 06 15.39284	14 31 27.74	+45 47 23.4	18.5	c		T05
C/2013 V4	2018 06 15.40227	14 31 27.51	+45 47 18.6	19.2	c		T05
C/2013 V4	2018 06 15.40411	14 31 27.50	+45 47 17.2	20.0	c		T05
C/2013 V4	2018 06 15.41235	14 31 27.33	+45 47 15.9	19.6	c		T05
C/2013 V4	2018 06 15.41372	14 31 27.39	+45 47 14.9	19.7	c		T05
C/2013 V4	2018 07 03.29918	14 26 20.455	+43 50 10.60	20.3	w		F51
C/2013 V4	2018 07 03.31205	14 26 20.295	+43 50 05.44	20.9	w		F51
C/2013 V4	2018 07 03.32500	14 26 20.134	+43 50 00.01	20.2	w		F51
C/2013 V4	2018 07 03.33799	14 26 19.971	+43 49 54.15	20.6	w		F51
C/2013 V4	2018 08 06.85299	14 25 17.93	+39 36 11.1	19.3	T	K	461
C/2013 V4	2018 08 06.86268	14 25 18.02	+39 36 07.2	20.1	T	K	461

C/2013 X1 (PANSTARRS)

C/2013 X1	2016 01 20.83483	23 44 53.98	+14 30 11.5	13.4	N	11	G40
C/2013 X1	2016 01 20.86397	23 44 52.85	+14 29 41.1	13.5	N	11	G40

C/2014 B1 (Schwartz)

C/2014 B1	2018 05 11.93393	10 18 13.93	+09 06 53.6	19.2	N	17	G40
C/2014 B1	2018 05 11.93516	10 18 13.95	+09 06 53.8	19.0	N	17	G40
C/2014 B1	2018 05 29.88949	10 21 08.40	+09 18 07.7	17.5	N	17	G40
C/2014 B1	2018 05 29.89242	10 21 08.45	+09 18 07.7	17.3	N	17	G40
C/2014 B1	2018 05 31.89852	10 21 34.94	+09 18 36.0	17.8	N	17	G40
C/2014 B1	2018 05 31.91861	10 21 35.23	+09 18 36.1	17.7	N	17	G40
C/2014 B1	2018 06 04.88926	10 22 31.61	+09 19 05.3	17.3	N	17	G40
C/2014 B1	2018 06 04.89238	10 22 31.67	+09 19 05.3	17.5	N	17	G40
C/2014 B1	2018 06 06.88738	10 23 01.92	+09 19 06.6	17.4	N	9	G40
C/2014 B1	2018 06 06.90148	10 23 02.16	+09 19 07.0	17.5	N	9	G40
C/2014 B1	2018 06 06.91920	10 23 02.41	+09 19 06.7	17.4	N	9	G40

C/2014 OE$_4$ (PANSTARRS)

C/2014 OE$_4$	2018 05 15.71189	23 05 51.11	+69 29 14.9				349
C/2014 OE$_4$	2018 05 15.72537	23 05 52.09	+69 29 20.7	16.9	T		349
C/2014 OE$_4$	2018 06 09.60180	23 31 26.43	+72 11 55.5	17.1	o		T08
C/2014 OE$_4$	2018 06 09.61190	23 31 27.10	+72 11 58.7	17.4	o		T08
C/2014 OE$_4$	2018 06 09.61364	23 31 27.11	+72 12 00.1	17.0	o		T08
C/2014 OE$_4$	2018 06 09.62203	23 31 27.70	+72 12 02.7	16.9	o		T08
C/2014 OE$_4$	2018 06 09.62370	23 31 27.66	+72 12 02.8	16.4	o		T08
C/2014 OE$_4$	2018 06 13.69903	23 34 48.57	+72 37 50.7				Q11
C/2014 OE$_4$	2018 06 13.70186	23 34 48.70	+72 37 51.8				Q11
C/2014 OE$_4$	2018 06 13.70758	23 34 48.94	+72 37 54.0				Q11
C/2014 OE$_4$	2018 06 13.71330	23 34 49.18	+72 37 56.1	17.1	T		Q11
C/2014 OE$_4$	2018 06 13.96331	23 35 01.07	+72 39 29.5	17.2	N	K	C23
C/2014 OE$_4$	2018 06 13.96620	23 35 01.09	+72 39 31.2	17.3	N	K	C23
C/2014 OE$_4$	2018 06 13.96908	23 35 01.20	+72 39 31.7	17.5	N	K	C23
C/2014 OE$_4$	2018 06 13.97197	23 35 01.40	+72 39 33.5	17.0	N	K	C23
C/2014 OE$_4$	2018 06 19.00779	23 38 43.67	+73 10 52.1	17.5	R		B96
C/2014 OE$_4$	2018 06 19.00942	23 38 43.79	+73 10 52.5	17.6	R		B96
C/2014 OE$_4$	2018 06 19.01105	23 38 43.83	+73 10 53.4	17.5	R		B96
C/2014 OE$_4$	2018 06 19.01269	23 38 43.87	+73 10 54.0	17.3	R		B96
C/2014 OE$_4$	2018 06 19.01433	23 38 43.93	+73 10 54.8	17.7	R		B96
C/2014 OE$_4$	2018 06 19.01596	23 38 43.99	+73 10 55.3	17.5	R		B96
C/2014 OE$_4$	2018 06 20.94180	23 40 01.33	+73 22 41.5	16.9	N		C23
C/2014 OE$_4$	2018 06 20.94613	23 40 01.58	+73 22 43.5	16.9	N		C23
C/2014 OE$_4$	2018 06 20.95190	23 40 01.79	+73 22 45.8	16.9	N		C23
C/2014 OE$_4$	2018 06 23.59383	23 41 40.72	+73 38 45.9	17.1	o		T05
C/2014 OE$_4$	2018 06 23.60547	23 41 41.06	+73 38 50.1	17.0	o		T05
C/2014 OE$_4$	2018 06 23.61565	23 41 41.70	+73 38 53.4	17.6	o		T05
C/2014 OE$_4$	2018 06 29.95628	23 45 03.13	+74 16 14.9	16.5	N		C23
C/2014 OE$_4$	2018 06 29.96205	23 45 03.22	+74 16 16.3	16.6	N		C23
C/2014 OE$_4$	2018 06 29.96782	23 45 03.63	+74 16 19.4	16.7	N		C23
C/2014 OE$_4$	2018 07 01.58861	23 45 46.32	+74 25 38.7	17.8	o		T05
C/2014 OE$_4$	2018 07 01.59784	23 45 46.40	+74 25 41.6	17.2	o		T05
C/2014 OE$_4$	2018 07 01.60680	23 45 46.71	+74 25 45.0	17.1	o		T05
C/2014 OE$_4$	2018 07 01.61589	23 45 46.86	+74 25 48.7	17.0	o		T05
C/2014 OE$_4$	2018 07 01.70808	23 45 49.54	+74 26 18.0			K	D81
C/2014 OE$_4$	2018 07 01.71126	23 45 49.63	+74 26 19.6			K	D81
C/2014 OE$_4$	2018 07 01.71444	23 45 49.61	+74 26 20.4			K	D81
C/2014 OE$_4$	2018 07 01.71762	23 45 49.47	+74 26 21.4	17.2	T	K	D81
C/2014 OE$_4$	2018 07 01.92796	23 45 54.92	+74 27 32.9	17.8	N	K	A71
C/2014 OE$_4$	2018 07 01.93667	23 45 55.20	+74 27 35.6	17.9	N	K	A71
C/2014 OE$_4$	2018 07 01.94617	23 45 55.40	+74 27 38.9	18.0	N	K	A71
C/2014 OE$_4$	2018 07 01.95475	23 45 55.69	+74 27 41.9	17.8	N	K	A71
C/2014 OE$_4$	2018 07 01.96332	23 45 55.83	+74 27 45.0	17.7	N	K	A71
C/2014 OE$_4$	2018 07 01.97135	23 45 56.01	+74 27 47.7	17.7	N	K	A71
C/2014 OE$_4$	2018 07 02.69769	23 46 13.77	+74 31 55.3	17.0	T		349
C/2014 OE$_4$	2018 07 02.71116	23 46 13.99	+74 32 00.2				349
C/2014 OE$_4$	2018 07 05.94036	23 47 23.09	+74 50 03.5	17.0	N		C23
C/2014 OE$_4$	2018 07 05.94614	23 47 23.18	+74 50 05.1	16.9	N		C23
C/2014 OE$_4$	2018 07 05.95047	23 47 23.25	+74 50 06.2	17.1	N		C23
C/2014 OE$_4$	2018 07 09.01637	23 48 14.13	+75 06 47.6	17.1	N		C23
C/2014 OE$_4$	2018 07 09.01983	23 48 14.39	+75 06 48.3	16.8	N		C23
C/2014 OE$_4$	2018 07 09.02271	23 48 14.30	+75 06 48.8	17.0	N		C23
C/2014 OE$_4$	2018 07 11.57349	23 48 45.36	+75 20 20.9	17.2	o		T08
C/2014 OE$_4$	2018 07 11.58314	23 48 45.63	+75 20 23.5	17.6	o		T08
C/2014 OE$_4$	2018 07 11.58980	23 48 45.62	+75 20 25.7	17.1	o		T08
C/2014 OE$_4$	2018 07 11.59294	23 48 45.54	+75 20 26.3	17.1	o		T08
C/2014 OE$_4$	2018 07 11.59938	23 48 45.66	+75 20 29.6	17.4	o		T08
C/2014 OE$_4$	2018 07 11.60215	23 48 45.47	+75 20 29.0	17.1	o		T08
C/2014 OE$_4$	2018 07 11.60833	23 48 45.75	+75 20 31.6	17.7	o		T08
C/2014 OE$_4$	2018 07 11.61715	23 48 45.41	+75 20 34.2	17.1	o		T08
C/2014 OE$_4$	2018 07 14.00196	23 49 05.60	+75 32 50.1	17.5	R		B96
C/2014 OE$_4$	2018 07 14.00686	23 49 05.50	+75 32 52.3	17.5	R		B96
C/2014 OE$_4$	2018 07 14.01014	23 49 05.71	+75 32 53.5	17.4	R		B96
C/2014 OE$_4$	2018 07 15.04682	23 49 10.97	+75 38 07.4	17.3	R		B96
C/2014 OE$_4$	2018 07 15.05008	23 49 10.90	+75 38 08.5	17.3	R		B96
C/2014 OE$_4$	2018 07 15.05499	23 49 11.07	+75 38 09.7	17.5	R		B96
C/2014 OE$_4$	2018 07 15.97375	23 49 14.32	+75 42 44.9	17.8	T		461
C/2014 OE$_4$	2018 07 15.98508	23 49 14.22	+75 42 48.5	17.6	T		461
C/2014 OE$_4$	2018 07 19.56102	23 49 13.20	+76 00 07.8	16.9	o		T08
C/2014 OE$_4$	2018 07 19.57175	23 49 13.20	+76 00 10.8	17.0	o		T08
C/2014 OE$_4$	2018 07 19.58188	23 49 13.08	+76 00 13.5	17.0	o		T08
C/2014 OE$_4$	2018 07 19.59099	23 49 13.00	+76 00 16.2	17.1	o		T08
C/2014 OE$_4$	2018 07 19.95933	23 49 12.08	+76 01 59.1	16.8	N		C23
C/2014 OE$_4$	2018 07 19.96366	23 49 11.96	+76 02 00.0	16.6	N		C23
C/2014 OE$_4$	2018 07 19.96943	23 49 11.99	+76 02 01.6	16.9	N		C23
C/2014 OE$_4$	2018 07 21.56045	23 49 03.46	+76 09 26.1	17.4	o		T05
C/2014 OE$_4$	2018 07 21.57059	23 49 02.98	+76 09 28.0	17.0	o		T05
C/2014 OE$_4$	2018 07 21.59011	23 49 02.87	+76 09 33.0	17.8	o		T05
C/2014 OE$_4$	2018 07 21.59115	23 49 02.83	+76 09 33.3	16.9	o		T05
C/2014 OE$_4$	2018 07 21.59941	23 49 02.67	+76 09 36.0	17.1	o		T05
C/2014 OE$_4$	2018 07 23.55652	23 48 45.63	+76 18 23.7	17.1	o		T08
C/2014 OE$_4$	2018 07 23.56618	23 48 45.61	+76 18 26.7	17.6	o		T08
C/2014 OE$_4$	2018 07 23.57554	23 48 45.51	+76 18 29.0	17.5	o		T08
C/2014 OE$_4$	2018 07 23.58566	23 48 45.44	+76 18 31.8	17.5	o		T08
C/2014 OE$_4$	2018 07 25.58272	23 48 20.73	+76 27 12.2	17.2	o		T05
C/2014 OE$_4$	2018 07 25.58537	23 48 20.88	+76 27 14.1	17.7	o		T05
C/2014 OE$_4$	2018 07 25.60236	23 48 20.64	+76 27 17.6	16.8	o		T05
C/2014 OE$_4$	2018 07 25.61404	23 48 20.56	+76 27 20.7	17.7	o		T05
C/2014 OE$_4$	2018 07 29.64413	23 47 08.61	+76 43 51.1			K	D81
C/2014 OE$_4$	2018 07 29.64649	23 47 08.49	+76 43 51.6			K	D81
C/2014 OE$_4$	2018 07 29.64884	23 47 08.40	+76 43 52.6			K	D81
C/2014 OE$_4$	2018 07 29.64963	23 47 08.36	+76 43 52.8	16.8	T	K	D81
C/2014 OE$_4$	2018 07 30.93021	23 46 39.87	+76 48 48.1	16.9	N	K	C23
C/2014 OE$_4$	2018 07 30.93309	23 46 39.82	+76 48 49.5	17.0	N	K	C23
C/2014 OE$_4$	2018 07 30.93598	23 46 39.75	+76 48 50.7	16.9	N	K	C23
C/2014 OE$_4$	2018 07 30.93887	23 46 39.52	+76 48 50.5	17.0	N	K	C23
C/2014 OE$_4$	2018 07 31.54129	23 46 25.04	+76 51 08.1	17.6	o		T08
C/2014 OE$_4$	2018 07 31.56581	23 46 24.02	+76 51 13.8	17.7	o		T08
C/2014 OE$_4$	2018 07 31.57552	23 46 23.78	+76 51 14.3	17.7	o		T08
C/2014 OE$_4$	2018 07 31.59388	23 46 23.06	+76 51 20.7	17.2	o		T08
C/2014 OE$_4$	2018 08 01.90631	23 45 49.45	+76 56 09.3	17.7	R		B96
C/2014 OE$_4$	2018 08 01.90795	23 45 49.35	+76 56 09.5	17.6	R		B96
C/2014 OE$_4$	2018 08 02.88737	23 45 21.60	+76 59 39.9	17.5	R		B96
C/2014 OE$_4$	2018 08 02.89064	23 45 21.09	+76 59 40.6	16.9	R		B96
C/2014 OE$_4$	2018 08 02.89391	23 45 21.42	+76 59 41.0	17.7	R		B96

C/2014 OE_4	2018 08 03.89414	23 44 51.13	+77 03 09.9	17.7	R		B96
C/2014 OE_4	2018 08 03.89742	23 44 50.98	+77 03 11.0	17.5	R		B96
C/2014 OE_4	2018 08 03.90068	23 44 50.91	+77 03 11.1	17.2	R		B96
C/2014 OE_4	2018 08 05.89116	23 43 45.58	+77 09 49.6	17.5	R		B96
C/2014 OE_4	2018 08 05.89442	23 43 45.44	+77 09 50.2	17.6	R		B96
C/2014 OE_4	2018 08 05.89770	23 43 45.29	+77 09 50.4	17.8	R		B96
C/2014 OE_4	2018 08 06.89057	23 43 10.11	+77 13 00.1	17.8	R		B96
C/2014 OE_4	2018 08 06.89383	23 43 09.89	+77 13 01.1	18.0	R		B96
C/2014 OE_4	2018 08 06.89709	23 43 09.85	+77 13 01.6	17.9	R		B96
C/2014 OE_4	2018 08 08.90050	23 41 53.22	+77 19 04.3	17.2	N	K	C23
C/2014 OE_4	2018 08 08.90483	23 41 53.18	+77 19 05.4	17.2	N	K	C23
C/2014 OE_4	2018 08 08.90772	23 41 53.07	+77 19 05.7	17.1	N	K	C23
C/2014 OE_4	2018 08 08.91060	23 41 52.86	+77 19 06.3	17.1	N	K	C23
C/2014 OE_4	2018 08 12.50673	23 39 17.85	+77 28 50.9	17.0	o		T08
C/2014 OE_4	2018 08 12.52183	23 39 17.14	+77 28 53.1	17.0	o		T08
C/2014 OE_4	2018 08 12.53226	23 39 16.57	+77 28 54.6	17.0	o		T08
C/2014 OE_4	2018 08 12.54271	23 39 16.20	+77 28 56.4	17.7	o		T08
C/2014 OE_4	2018 08 14.52184	23 37 42.35	+77 33 37.3	18.0	c		T05
C/2014 OE_4	2018 08 14.53483	23 37 41.45	+77 33 39.1	17.3	c		T05
C/2014 OE_4	2018 08 14.54113	23 37 41.29	+77 33 40.0	18.2	c		T05
C/2014 OE_4	2018 08 14.55017	23 37 40.49	+77 33 41.9	18.2	c		T05
C/2014 OE_4	2018 08 15.08902	23 37 13.91	+77 34 52.9	18.0	N	K	A77
C/2014 OE_4	2018 08 15.10167	23 37 13.33	+77 34 54.4	18.0	N	K	A77
C/2014 OE_4	2018 08 17.89537	23 34 47.83	+77 40 30.3	16.8	N		C23
C/2014 OE_4	2018 08 17.90259	23 34 47.34	+77 40 30.7	16.9	N		C23
C/2014 OE_4	2018 08 17.90836	23 34 47.36	+77 40 31.6	17.0	N		C23
C/2014 OE_4	2018 08 18.98828	23 33 47.47	+77 42 26.4	17.9	N	K	461
C/2014 OE_4	2018 08 18.99476	23 33 47.08	+77 42 27.1	18.0	N	K	461
C/2014 OE_4	2018 08 19.00124	23 33 46.71	+77 42 27.5	17.9	N	K	461
C/2014 OE_4	2018 08 19.56954	23 33 15.15	+77 43 23.4	16.9	T		Q11
C/2014 OE_4	2018 08 19.57811	23 33 14.56	+77 43 24.3				Q11
C/2014 OE_4	2018 08 19.58240	23 33 14.34	+77 43 24.8				Q11
C/2014 OE_4	2018 08 19.94331	23 32 53.78	+77 43 59.2	18.0	N	K	461
C/2014 OE_4	2018 08 19.94979	23 32 53.44	+77 43 59.9	18.0	N	K	461
C/2014 OE_4	2018 08 19.95626	23 32 53.12	+77 44 00.4	18.0	N	K	461
C/2014 OE_4	2018 08 31.86481	23 20 21.46	+77 52 46.0	16.9	N		C23
C/2014 OE_4	2018 08 31.87059	23 20 21.02	+77 52 46.5	17.1	N		C23
C/2014 OE_4	2018 08 31.87492	23 20 20.81	+77 52 46.7	16.8	N		C23
C/2014 OE_4	2018 08 31.91196	23 20 18.46	+77 52 46.2	17.4	N	9	G40
C/2014 OE_4	2018 08 31.92572	23 20 17.52	+77 52 45.7	17.4	N	9	G40
C/2014 OE_4	2018 08 31.93384	23 20 16.61	+77 52 46.3	18.0	N	K	461
C/2014 OE_4	2018 08 31.94040	23 20 16.16	+77 52 45.9	18.1	N	K	461
C/2014 OE_4	2018 08 31.94698	23 20 15.74	+77 52 45.8	18.0	N	K	461
C/2014 OE_4	2018 09 05.47525	23 15 04.18	+77 50 38.6	17.3	o		T08
C/2014 OE_4	2018 09 05.47709	23 15 04.23	+77 50 37.9	17.3	o		T08
C/2014 OE_4	2018 09 05.49527	23 15 02.96	+77 50 37.3	17.1	o		T08
C/2014 OE_4	2018 09 05.92220	23 14 33.72	+77 50 14.7	18.1	R	K	215
C/2014 OE_4	2018 09 05.92348	23 14 33.66	+77 50 14.6	18.3	R	K	215
C/2014 OE_4	2018 09 05.92477	23 14 33.61	+77 50 14.4	18.2	R	K	215
C/2014 OE_4	2018 09 14.12381	23 05 09.41	+77 37 49.3	16.8	N		C23
C/2014 OE_4	2018 09 14.12958	23 05 09.02	+77 37 49.3	16.9	N		C23
C/2014 OE_4	2018 09 14.13391	23 05 08.79	+77 37 48.1	17.0	N		C23

C/2014 Q2 (Lovejoy)

C/2014 Q2	2015 06 05.90374	15 15 50.13	+86 29 51.0	12.6	N		11G40
C/2014 Q2	2015 06 06.12263	15 14 02.79	+86 23 33.3	12.6	N		11G40

C/2014 R3 (PANSTARRS)

C/2014 R3	2017 12 13.53768	12 01 38.03	+37 51 52.5				5 U69
C/2014 R3	2017 12 13.54282	12 01 37.97	+37 51 52.9	17.4	w		5 U69
C/2014 R3	2018 05 14.90328	10 37 32.06	+35 59 34.2	17.7	N		17G40
C/2014 R3	2018 05 14.90475	10 37 32.04	+35 59 33.6	17.7	N		17G40
C/2014 R3	2018 06 02.32780	10 35 02.45	+34 11 12.7	18.5	o		T05
C/2014 R3	2018 06 02.33531	10 35 02.45	+34 11 10.3	17.8	o		T05
C/2014 R3	2018 06 02.34356	10 35 02.39	+34 11 07.9	18.4	o		T05
C/2014 R3	2018 06 02.35196	10 35 02.41	+34 11 05.3	18.0	o		T05
C/2014 R3	2018 06 06.32540	10 34 55.20	+33 47 06.5	17.9	o		T05
C/2014 R3	2018 06 06.33318	10 34 55.15	+33 47 03.0	18.5	o		T05
C/2014 R3	2018 06 06.34125	10 34 55.10	+33 47 00.0	18.7	o		T05
C/2014 R3	2018 06 06.35017	10 34 55.21	+33 46 57.3	17.7	o		T05
C/2014 R3	2018 06 10.31745	10 34 56.06	+33 22 54.9	18.5	c		T05
C/2014 R3	2018 06 10.32871	10 34 56.07	+33 22 51.1	18.3	c		T05
C/2014 R3	2018 06 10.34010	10 34 56.09	+33 22 47.1	18.9	c		T05
C/2014 R3	2018 06 10.35146	10 34 56.05	+33 22 41.6	18.9	c		T05
C/2014 R3	2018 06 20.31038	10 35 31.77	+32 22 22.8	19.1	o		T08
C/2014 R3	2018 06 20.31869	10 35 31.36	+32 22 12.4	18.3	o		T08
C/2014 R3	2018 06 20.32684	10 35 31.42	+32 22 10.1	18.4	o		T08
C/2014 R3	2018 06 20.33470	10 35 31.39	+32 22 08.9	18.4	o		T08
C/2014 R3	2018 06 22.31845	10 35 43.61	+32 10 05.7	18.2	o		T05
C/2014 R3	2018 06 22.32561	10 35 43.79	+32 10 04.1	18.3	o		T05
C/2014 R3	2018 06 22.34468	10 35 43.78	+32 09 56.1	18.0	o		T05
C/2014 R3	2018 06 22.35388	10 35 43.82	+32 09 53.6	18.0	o		T05

C/2015 ER_{61} (PANSTARRS)

C/2015 ER_{61}	2018 01 22.86282	02 47 19.91	+15 36 30.3	17.6	N	K	212
C/2015 ER_{61}	2018 01 22.86786	02 47 20.03	+15 36 30.5	17.8	N	K	212
C/2015 ER_{61}	2018 01 22.87289	02 47 20.16	+15 36 31.5	17.7	N	K	212

C/2015 H2 (PANSTARRS)

C/2015 H2	2018 08 08.49748	23 33 15.940	−06 12 19.16	21.1	w		F51
C/2015 H2	2018 08 08.50928	23 33 15.685	−06 12 18.99	21.0	w		F51
C/2015 H2	2018 08 08.52110	23 33 15.470	−06 12 19.00	21.1	w		F51
C/2015 H2	2018 08 08.53293	23 33 15.220	−06 12 18.89	21.0	w		F51
C/2015 H2	2018 08 12.01566	23 32 05.75	−06 12 01.3	19.4	R	K	215
C/2015 H2	2018 08 12.01823	23 32 05.67	−06 12 01.5	19.3	R	K	215
C/2015 H2	2018 08 12.02079	23 32 05.54	−06 12 01.9	19.8	R	K	215
C/2015 H2	2018 09 05.51865	23 22 26.95	−06 16 11.2	19.7	G	K	474
C/2015 H2	2018 09 05.52076	23 22 26.90	−06 16 11.1	19.6	G	K	474
C/2015 H2	2018 09 05.52287	23 22 26.85	−06 16 11.3	19.7	G	K	474
C/2015 H2	2018 09 09.50891	23 20 45.15	−06 17 20.1	19.4	o		T05
C/2015 H2	2018 09 09.50994	23 20 45.04	−06 17 19.0	19.2	o		T05
C/2015 H2	2018 09 09.51965	23 20 44.85	−06 17 20.3	19.3	o		T05
C/2015 H2	2018 09 09.52010	23 20 44.80	−06 17 18.6	19.4	o		T05
C/2015 H2	2018 09 09.53079	23 20 44.50	−06 17 20.2	19.3	o		T05
C/2015 H2	2018 09 09.54051	23 20 44.26	−06 17 21.6	19.1	o		T05
C/2015 H2	2018 09 11.93427	23 19 43.20	−06 17 59.4	19.1	N	K	K77
C/2015 H2	2018 09 11.93855	23 19 43.11	−06 18 00.0	19.0	N	K	K77

C/2015 H2	2018 09 14.24068	23 18 44.58	−06 18 34.4	18.5	G	G96
C/2015 H2	2018 09 14.24819	23 18 44.37	−06 18 34.6	18.8	G	G96
C/2015 H2	2018 09 14.25387	23 18 44.24	−06 18 33.8	19.0	G	G96
C/2015 H2	2018 09 14.25954	23 18 43.97	−06 18 33.9			G96

C/2015 LC_2 (PANSTARRS)

C/2015 LC_2	2018 06 02.65979	15 38 46.83	+46 29 58.0	18.6	T	349
C/2015 LC_2	2018 06 02.67177	15 38 46.41	+46 29 58.5			349
C/2015 LC_2	2018 06 15.32950	15 32 38.801	+46 36 21.53	20.9	w	F51
C/2015 LC_2	2018 06 15.34301	15 32 38.401	+46 36 21.57	21.0	w	F51
C/2015 LC_2	2018 06 15.35652	15 32 38.044	+46 36 21.68	21.2	w	F51
C/2015 LC_2	2018 06 15.37004	15 32 37.658	+46 36 21.27	21.1	w	F51
C/2015 LC_2	2018 08 16.82355	15 20 04.73	+44 21 03.6	20.2	T	K 461
C/2015 LC_2	2018 08 16.83061	15 20 04.79	+44 21 02.1	20.3	T	K 461
C/2015 LC_2	2018 08 17.83209	15 20 09.46	+44 17 50.7	20.4	T	K 461
C/2015 LC_2	2018 08 17.84478	15 20 09.48	+44 17 48.6	21.1	T	K 461

C/2015 O1 (PANSTARRS)

C/2015 O1	2018 05 04.97973	13 43 57.20	+56 58 29.5	14.8	N	K A58
C/2015 O1	2018 05 04.99304	13 43 54.40	+56 58 29.2	14.8	N	K A58
C/2015 O1	2018 05 05.00939	13 43 51.00	+56 58 29.5	14.8	N	K A58
C/2015 O1	2018 05 07.93887	13 34 02.16	+56 55 08.7	15.4	N	L30
C/2015 O1	2018 05 07.94252	13 34 01.52	+56 55 07.9	16.4	N	L30
C/2015 O1	2018 05 07.94620	13 34 00.71	+56 55 07.8	15.5	N	L30
C/2015 O1	2018 05 07.94985	13 34 00.08	+56 55 07.5	16.4	N	L30
C/2015 O1	2018 05 07.95716	13 33 58.53	+56 55 06.6	15.4	N	L30
C/2015 O1	2018 05 08.94194	13 30 44.96	+56 52 51.3	15.2	N	L30
C/2015 O1	2018 05 08.95291	13 30 42.78	+56 52 49.8	15.3	N	L30
C/2015 O1	2018 05 08.95656	13 30 42.04	+56 52 49.3	15.7	N	L30
C/2015 O1	2018 05 10.90750	13 24 25.85	+56 46 46.4	14.8	N	585
C/2015 O1	2018 05 10.90821	13 24 25.78	+56 46 45.9	14.9	N	585
C/2015 O1	2018 05 10.90892	13 24 25.59	+56 46 45.9	14.9	N	585
C/2015 O1	2018 05 10.90963	13 24 25.47	+56 46 45.6	14.9	N	585
C/2015 O1	2018 05 10.91033	13 24 25.38	+56 46 45.3	14.9	N	585
C/2015 O1	2018 05 10.91104	13 24 25.16	+56 46 45.4	14.9	N	585
C/2015 O1	2018 05 10.91175	13 24 25.19	+56 46 44.6	15.0	N	585
C/2015 O1	2018 05 10.91246	13 24 24.90	+56 46 44.9	14.9	N	585
C/2015 O1	2018 05 10.91317	13 24 24.78	+56 46 44.8	14.9	N	585
C/2015 O1	2018 05 10.91388	13 24 24.63	+56 46 44.6	14.9	N	585
C/2015 O1	2018 05 10.91537	13 24 24.36	+56 46 44.5	14.8	N	585
C/2015 O1	2018 05 10.91608	13 24 24.22	+56 46 44.4	14.9	N	585
C/2015 O1	2018 05 10.91679	13 24 24.07	+56 46 44.1	14.8	N	585
C/2015 O1	2018 05 10.91749	13 24 23.93	+56 46 44.2	14.8	N	585
C/2015 O1	2018 05 10.91820	13 24 23.79	+56 46 44.1	14.9	N	585
C/2015 O1	2018 05 10.91891	13 24 23.74	+56 46 43.8	14.8	N	585
C/2015 O1	2018 05 10.91962	13 24 23.52	+56 46 43.7	14.9	N	585
C/2015 O1	2018 05 10.92033	13 24 23.47	+56 46 43.1	14.9	N	585
C/2015 O1	2018 05 18.94803	13 00 35.47	+56 01 57.7	15.4	N	K02
C/2015 O1	2018 05 18.95388	13 00 34.52	+56 01 55.4	15.4	N	K02
C/2015 O1	2018 05 18.96118	13 00 33.30	+56 01 51.8	15.4	N	K02
C/2015 O1	2018 05 20.67462	12 55 56.34	+55 48 44.9	13.4	T	D95
C/2015 O1	2018 05 20.67785	12 55 55.81	+55 48 43.5			D95
C/2015 O1	2018 05 20.68325	12 55 54.96	+55 48 40.8			D95
C/2015 O1	2018 05 26.89416	12 40 39.97	+54 52 57.3	16.4	N	K K87
C/2015 O1	2018 05 26.91673	12 40 36.80	+54 52 43.9	16.5	N	K K87
C/2015 O1	2018 05 26.93175	12 40 34.74	+54 52 34.8	16.6	N	K K87
C/2015 O1	2018 05 28.95086	12 36 07.16	+54 32 08.7	15.1	N	585
C/2015 O1	2018 05 28.95122	12 36 07.10	+54 32 08.6	15.2	N	585
C/2015 O1	2018 05 28.95158	12 36 07.11	+54 32 08.1	15.1	N	585
C/2015 O1	2018 05 28.95194	12 36 06.99	+54 32 08.1	15.1	N	585
C/2015 O1	2018 05 28.95230	12 36 07.00	+54 32 07.7	15.2	N	585
C/2015 O1	2018 05 28.95266	12 36 06.95	+54 32 07.4	15.2	N	585
C/2015 O1	2018 05 28.95302	12 36 06.92	+54 32 06.7	15.1	N	585
C/2015 O1	2018 05 28.95339	12 36 06.77	+54 32 07.1	15.0	N	585
C/2015 O1	2018 05 28.95411	12 36 06.76	+54 32 06.4	15.1	N	585
C/2015 O1	2018 05 28.95447	12 36 06.79	+54 32 05.3	15.1	N	585
C/2015 O1	2018 05 28.95483	12 36 06.74	+54 32 05.4	15.0	N	585
C/2015 O1	2018 05 28.95520	12 36 06.64	+54 32 05.7	15.1	N	585
C/2015 O1	2018 05 28.95556	12 36 06.64	+54 32 05.3	15.1	N	585
C/2015 O1	2018 05 28.95592	12 36 06.55	+54 32 05.6	15.1	N	585
C/2015 O1	2018 05 28.95628	12 36 06.49	+54 32 05.4	15.1	N	585
C/2015 O1	2018 05 28.95664	12 36 06.52	+54 32 04.5	15.2	N	585
C/2015 O1	2018 05 28.95700	12 36 06.42	+54 32 04.7	15.0	N	585
C/2015 O1	2018 05 28.95772	12 36 06.29	+54 32 04.2	15.0	N	585
C/2015 O1	2018 05 28.95816	12 36 06.29	+54 32 03.6	15.0	N	585
C/2015 O1	2018 05 28.95852	12 36 06.22	+54 32 03.4	15.0	N	585
C/2015 O1	2018 05 28.95888	12 36 06.19	+54 32 03.1	15.1	N	585
C/2015 O1	2018 05 31.61361	12 30 36.41	+54 03 50.3	14.3	N	G26
C/2015 O1	2018 05 31.67006	12 30 29.70	+54 03 11.8	14.1	N	G26
C/2015 O1	2018 05 31.89799	12 30 02.62	+54 00 42.1	15.3	N	585
C/2015 O1	2018 05 31.89869	12 30 02.41	+54 00 42.2	15.2	N	585
C/2015 O1	2018 05 31.89940	12 30 02.34	+54 00 41.3	15.2	N	585
C/2015 O1	2018 05 31.90011	12 30 02.22	+54 00 41.0	15.2	N	585
C/2015 O1	2018 05 31.90082	12 30 02.21	+54 00 40.4	15.2	N	585
C/2015 O1	2018 05 31.90153	12 30 02.11	+54 00 39.8	15.1	N	585
C/2015 O1	2018 05 31.90224	12 30 01.99	+54 00 39.7	15.2	N	585
C/2015 O1	2018 05 31.90295	12 30 01.98	+54 00 38.9	15.2	N	585
C/2015 O1	2018 05 31.90436	12 30 01.79	+54 00 38.0	15.1	N	585
C/2015 O1	2018 05 31.90507	12 30 01.76	+54 00 37.5	15.2	N	585
C/2015 O1	2018 05 31.90578	12 30 01.67	+54 00 36.9	15.2	N	585
C/2015 O1	2018 05 31.90649	12 30 01.53	+54 00 36.7	15.2	N	585
C/2015 O1	2018 05 31.90719	12 30 01.40	+54 00 36.4	15.2	N	585
C/2015 O1	2018 05 31.90790	12 30 01.33	+54 00 36.1	15.2	N	585
C/2015 O1	2018 05 31.90861	12 30 01.30	+54 00 35.0	15.2	N	585
C/2015 O1	2018 05 31.90932	12 30 01.16	+54 00 34.8	15.1	N	585
C/2015 O1	2018 05 31.91003	12 30 01.18	+54 00 34.0	15.2	N	585
C/2015 O1	2018 05 31.91074	12 30 01.00	+54 00 33.8	15.1	N	585
C/2015 O1	2018 06 01.58552	12 28 41.81	+53 53 07.3			K D81
C/2015 O1	2018 06 01.58856	12 28 41.40	+53 53 06.4			K D81
C/2015 O1	2018 06 01.59162	12 28 41.19	+53 53 04.9			K D81
C/2015 O1	2018 06 01.59467	12 28 40.82	+53 53 01.6	13.8	T	K D81
C/2015 O1	2018 06 02.53144	12 26 53.39	+53 42 34.8			900
C/2015 O1	2018 06 02.53857	12 26 52.56	+53 42 30.1	13.6	T	900
C/2015 O1	2018 06 02.55094	12 26 51.37	+53 42 19.3	14.6	N	G26
C/2015 O1	2018 06 02.59580	12 26 45.88	+53 41 50.9	14.7	N	G26
C/2015 O1	2018 06 02.805396	12 26 22.658	+53 39 29.39	16.4	G	5 089
C/2015 O1	2018 06 02.807176	12 26 22.428	+53 39 27.89	16.0	G	5 089

C/2015 O1	2018 06 02.808954	12 26 22.228	+53 39 26.44	16.3	G	5	089
C/2015 O1	2018 06 02.810736	12 26 22.057	+53 39 25.15	16.5	G	5	089
C/2015 O1	2018 06 02.812519	12 26 21.851	+53 39 23.95	16.4	G	5	089
C/2015 O1	2018 06 02.825356	12 26 20.427	+53 39 15.31	16.5	G	5	089
C/2015 O1	2018 06 02.827136	12 26 20.163	+53 39 14.18	16.9	G	5	089
C/2015 O1	2018 06 02.828920	12 26 20.021	+53 39 13.06	16.8	G	5	089
C/2015 O1	2018 06 02.830701	12 26 19.801	+53 39 11.55	16.8	G	5	089
C/2015 O1	2018 06 02.832485	12 26 19.615	+53 39 10.17	16.4	G	5	089
C/2015 O1	2018 06 02.89981	12 26 12.14	+53 38 25.8	15.6	N	9	G40
C/2015 O1	2018 06 02.90403	12 26 11.65	+53 38 22.8	15.7	N	9	G40
C/2015 O1	2018 06 02.90904	12 26 11.07	+53 38 19.3	15.6	N	9	G40
C/2015 O1	2018 06 02.91449	12 26 10.50	+53 38 15.5	15.6	N	9	G40
C/2015 O1	2018 06 02.98115	12 26 02.85	+53 37 28.9	15.5	N		K02
C/2015 O1	2018 06 02.98733	12 26 02.15	+53 37 24.6	15.5	N		K02
C/2015 O1	2018 06 02.99505	12 26 01.35	+53 37 19.8	15.5	N		K02
C/2015 O1	2018 06 03.22389	12 25 35.67	+53 34 45.6	13.6	G		G96
C/2015 O1	2018 06 03.22923	12 25 35.06	+53 34 42.0	13.6	G		G96
C/2015 O1	2018 06 03.23456	12 25 34.48	+53 34 38.2	13.6	G		G96
C/2015 O1	2018 06 03.23990	12 25 33.88	+53 34 34.5	13.6	G		G96
C/2015 O1	2018 06 03.90487	12 24 21.38	+53 26 59.0	15.7	R		B96
C/2015 O1	2018 06 03.90650	12 24 21.23	+53 26 58.6	15.9	R		B96
C/2015 O1	2018 06 03.90814	12 24 21.05	+53 26 55.9	15.8	R		B96
C/2015 O1	2018 06 03.90977	12 24 20.79	+53 26 55.2	15.7	R		B96
C/2015 O1	2018 06 03.91149	12 24 20.68	+53 26 54.1	15.8	R		B96
C/2015 O1	2018 06 04.54166	12 23 12.57	+53 19 40.1	14.6	N		G26
C/2015 O1	2018 06 04.59619	12 23 07.07	+53 19 02.7	14.8	N		G26
C/2015 O1	2018 06 04.90051	12 22 34.96	+53 15 30.5	15.7	N		C23
C/2015 O1	2018 06 04.90350	12 22 34.61	+53 15 28.7	15.5	N		C23
C/2015 O1	2018 06 04.90650	12 22 34.29	+53 15 26.6	15.4	N		C23
C/2015 O1	2018 06 04.90951	12 22 34.08	+53 15 24.3	15.7	R		B96
C/2015 O1	2018 06 04.91116	12 22 33.89	+53 15 23.1	15.6	R		B96
C/2015 O1	2018 06 04.91279	12 22 33.71	+53 15 22.3	15.7	R		B96
C/2015 O1	2018 06 04.91442	12 22 33.62	+53 15 20.5	15.7	R		B96
C/2015 O1	2018 06 04.91605	12 22 33.41	+53 15 19.7	15.8	R		B96
C/2015 O1	2018 06 04.94101	12 22 30.66	+53 15 01.9	15.1	N		585
C/2015 O1	2018 06 04.94173	12 22 30.56	+53 15 01.4	15.1	N		585
C/2015 O1	2018 06 04.94245	12 22 30.45	+53 15 00.9	15.1	N		585
C/2015 O1	2018 06 04.94318	12 22 30.45	+53 15 00.2	15.1	N		585
C/2015 O1	2018 06 04.94390	12 22 30.38	+53 14 59.6	15.2	N		585
C/2015 O1	2018 06 04.94462	12 22 30.29	+53 14 59.3	15.2	N		585
C/2015 O1	2018 06 04.94534	12 22 30.23	+53 14 58.7	15.2	N		585
C/2015 O1	2018 06 04.94606	12 22 30.15	+53 14 58.0	15.2	N		585
C/2015 O1	2018 06 04.94679	12 22 30.08	+53 14 57.5	15.2	N		585
C/2015 O1	2018 06 05.03439	12 22 20.77	+53 13 58.0	15.4	N		J22
C/2015 O1	2018 06 05.03561	12 22 20.62	+53 13 56.1	15.4	N		J22
C/2015 O1	2018 06 05.03928	12 22 20.30	+53 13 54.0	15.4	N		J22
C/2015 O1	2018 06 05.55465	12 21 26.70	+53 07 55.0	14.8	N		G26
C/2015 O1	2018 06 05.61645	12 21 20.38	+53 07 11.6	14.7	N		G26
C/2015 O1	2018 06 05.89981	12 20 51.52	+53 03 51.5	15.8	R		B96
C/2015 O1	2018 06 05.90145	12 20 51.39	+53 03 50.3	15.6	R		B96
C/2015 O1	2018 06 05.90319	12 20 51.19	+53 03 48.9	15.7	R		B96
C/2015 O1	2018 06 05.90483	12 20 51.03	+53 03 48.1	15.7	R		B96
C/2015 O1	2018 06 05.90647	12 20 50.82	+53 03 46.9	15.7	R		B96
C/2015 O1	2018 06 05.90810	12 20 50.70	+53 03 45.4	15.6	R		B96
C/2015 O1	2018 06 05.90973	12 20 50.51	+53 03 44.3	15.7	R		B96
C/2015 O1	2018 06 05.91568	12 20 49.80	+53 03 39.9	16.3	N		L04
C/2015 O1	2018 06 05.92318	12 20 49.06	+53 03 34.6	16.4	N		L04
C/2015 O1	2018 06 05.92713	12 20 48.63	+53 03 31.9	16.3	N		L04
C/2015 O1	2018 06 05.93029	12 20 48.33	+53 03 29.5	16.3	N		L04
C/2015 O1	2018 06 05.98948	12 20 42.27	+53 02 48.1	15.6	N		C23
C/2015 O1	2018 06 05.99697	12 20 41.46	+53 02 43.0	15.3	N		C23
C/2015 O1	2018 06 06.00370	12 20 40.78	+53 02 38.1	15.4	N		C23
C/2015 O1	2018 06 06.834641	12 19 17.535	+52 52 51.02	16.3	N	5	089
C/2015 O1	2018 06 06.836419	12 19 17.376	+52 52 49.40	16.4	N	5	089
C/2015 O1	2018 06 06.838201	12 19 17.222	+52 52 48.07	16.3	N	5	089
C/2015 O1	2018 06 06.839983	12 19 17.011	+52 52 47.20	16.4	N	5	089
C/2015 O1	2018 06 06.841765	12 19 16.874	+52 52 45.81	16.3	N	5	089
C/2015 O1	2018 06 06.851992	12 19 15.812	+52 52 38.51	16.4	N	5	089
C/2015 O1	2018 06 06.855081	12 19 15.525	+52 52 36.11	16.4	N	5	089
C/2015 O1	2018 06 06.919475	12 19 09.155	+52 51 50.43	16.3	N	5	089
C/2015 O1	2018 06 06.921258	12 19 08.964	+52 51 48.81	16.3	N	5	089
C/2015 O1	2018 06 06.923040	12 19 08.696	+52 51 48.04	16.3	N	5	089
C/2015 O1	2018 06 06.924822	12 19 08.592	+52 51 46.60	16.3	N	5	089
C/2015 O1	2018 06 06.928120	12 19 08.230	+52 51 43.37	16.4	N	5	089
C/2015 O1	2018 06 06.929903	12 19 08.017	+52 51 43.19	16.3	N	5	089
C/2015 O1	2018 06 06.931685	12 19 07.865	+52 51 41.81	16.3	N	5	089
C/2015 O1	2018 06 07.49606	12 18 12.72	+52 45 00.8			K	367
C/2015 O1	2018 06 07.49850	12 18 12.50	+52 44 59.1			K	367
C/2015 O1	2018 06 07.49971	12 18 12.36	+52 44 58.2	13.4	T	K	367
C/2015 O1	2018 06 07.868440	12 17 36.881	+52 40 33.71	16.3	N	5	089
C/2015 O1	2018 06 07.870215	12 17 36.727	+52 40 32.33	16.4	N	5	089
C/2015 O1	2018 06 07.871997	12 17 36.485	+52 40 31.07	16.4	N	5	089
C/2015 O1	2018 06 07.873779	12 17 36.354	+52 40 30.09	16.5	N	5	089
C/2015 O1	2018 06 07.877018	12 17 36.068	+52 40 27.02	16.4	N	5	089
C/2015 O1	2018 06 07.887510	12 17 35.030	+52 40 19.76	16.4	N	5	089
C/2015 O1	2018 06 07.889290	12 17 34.813	+52 40 18.45	16.3	N	5	089
C/2015 O1	2018 06 07.918777	12 17 31.963	+52 39 56.58	16.4	N	5	089
C/2015 O1	2018 06 07.920551	12 17 31.885	+52 39 56.28	16.5	N	5	089
C/2015 O1	2018 06 07.92372	12 17 31.51	+52 39 54.3	16.0	N	K	K14
C/2015 O1	2018 06 07.93225	12 17 30.68	+52 39 48.5	15.7	N	K	K14
C/2015 O1	2018 06 08.002799	12 17 24.033	+52 38 56.52	16.1	N	5	089
C/2015 O1	2018 06 08.22510	12 17 02.98	+52 36 17.4	13.3	G		703
C/2015 O1	2018 06 08.23048	12 17 02.47	+52 36 13.5	13.3	G		703
C/2015 O1	2018 06 08.23587	12 17 01.87	+52 36 09.9	13.3	G		703
C/2015 O1	2018 06 08.24125	12 17 01.33	+52 36 05.9	13.4	G		703
C/2015 O1	2018 06 09.31061	12 15 21.96	+52 23 16.0	16.0	o		T08
C/2015 O1	2018 06 09.31950	12 15 20.92	+52 23 09.5	15.2	o		T08
C/2015 O1	2018 06 09.32791	12 15 20.15	+52 23 03.4	15.3	o		T08
C/2015 O1	2018 06 09.32885	12 15 20.07	+52 23 02.9	15.2	o		T08
C/2015 O1	2018 06 09.33025	12 15 19.94	+52 23 02.0	15.3	o		T08
C/2015 O1	2018 06 09.33633	12 15 19.38	+52 22 57.1	15.3	o		T08
C/2015 O1	2018 06 09.33725	12 15 19.31	+52 22 56.8	15.3	o		T08
C/2015 O1	2018 06 09.34096	12 15 18.95	+52 22 54.1	15.3	o		T08
C/2015 O1	2018 06 09.34941	12 15 18.18	+52 22 48.0	15.3	o		T08
C/2015 O1	2018 06 09.35079	12 15 18.09	+52 22 46.8	15.2	o		T08
C/2015 O1	2018 06 09.35959	12 15 17.22	+52 22 40.3	15.2	o		T08

C/2015 O1	2018 06 09.36005	12 15 17.19	+52 22 40.3	15.3	o	T08
C/2015 O1	2018 06 09.88794	12 14 29.90	+52 16 15.8	15.5	R	B96
C/2015 O1	2018 06 09.88957	12 14 29.72	+52 16 14.6	15.5	R	B96
C/2015 O1	2018 06 09.89120	12 14 29.57	+52 16 13.9	15.6	R	B96
C/2015 O1	2018 06 09.89285	12 14 29.48	+52 16 12.2	15.6	R	B96
C/2015 O1	2018 06 09.89448	12 14 29.36	+52 16 10.5	15.6	R	B96
C/2015 O1	2018 06 09.89622	12 14 29.19	+52 16 08.9	15.5	R	B96
C/2015 O1	2018 06 09.89948	12 14 28.79	+52 16 05.3	15.6	R	B96
C/2015 O1	2018 06 09.92289	12 14 26.66	+52 15 51.1	15.3	N	Z39
C/2015 O1	2018 06 09.94563	12 14 24.60	+52 15 34.5	15.3	N	Z39
C/2015 O1	2018 06 09.95025	12 14 24.15	+52 15 30.0	15.2	N	L27
C/2015 O1	2018 06 09.96424	12 14 22.92	+52 15 20.7	15.3	N	Z39
C/2015 O1	2018 06 09.97122	12 14 22.25	+52 15 14.6	15.2	N	L27
C/2015 O1	2018 06 09.99291	12 14 20.34	+52 14 58.5	15.3	N	L27
C/2015 O1	2018 06 10.55122	12 13 30.84	+52 08 13.8	14.4	N	G26
C/2015 O1	2018 06 10.61360	12 13 25.44	+52 07 27.3	14.3	N	G26
C/2015 O1	2018 06 10.89433	12 13 01.26	+52 04 01.4	15.0	N	K08
C/2015 O1	2018 06 10.90183	12 13 00.50	+52 03 56.5	15.0	N	K08
C/2015 O1	2018 06 10.90432	12 13 00.29	+52 03 54.4	15.0	N	K08
C/2015 O1	2018 06 10.94586	12 12 56.73	+52 03 22.8	14.9	N	585
C/2015 O1	2018 06 10.94656	12 12 56.66	+52 03 22.3	14.9	N	585
C/2015 O1	2018 06 10.94799	12 12 56.56	+52 03 21.3	14.9	N	585
C/2015 O1	2018 06 10.94869	12 12 56.48	+52 03 20.9	14.8	N	585
C/2015 O1	2018 06 10.95012	12 12 56.31	+52 03 19.8	14.9	N	585
C/2015 O1	2018 06 10.95082	12 12 56.29	+52 03 19.2	14.9	N	585
C/2015 O1	2018 06 10.95223	12 12 56.14	+52 03 18.3	14.9	N	585
C/2015 O1	2018 06 11.32805	12 12 23.70	+51 58 44.1	15.6	c	T05
C/2015 O1	2018 06 11.33820	12 12 22.84	+51 58 36.7	15.6	c	T05
C/2015 O1	2018 06 11.34153	12 12 22.52	+51 58 34.4	15.4	c	T05
C/2015 O1	2018 06 11.34872	12 12 21.92	+51 58 28.8	15.5	c	T05
C/2015 O1	2018 06 11.35101	12 12 21.74	+51 58 27.3	15.6	c	T05
C/2015 O1	2018 06 11.36823	12 12 20.25	+51 58 14.6	15.5	c	T05
C/2015 O1	2018 06 11.58057	12 12 02.35	+51 55 38.5	14.5	N	G26
C/2015 O1	2018 06 11.63865	12 11 57.29	+51 54 55.2	14.4	N	G26
C/2015 O1	2018 06 12.10702	12 11 18.35	+51 49 10.3			I15
C/2015 O1	2018 06 12.11133	12 11 17.99	+51 49 07.1			I15
C/2015 O1	2018 06 12.11686	12 11 17.48	+51 49 03.1			I15
C/2015 O1	2018 06 12.20589	12 11 10.19	+51 47 57.2	12.9	G	703
C/2015 O1	2018 06 12.21129	12 11 09.64	+51 47 52.6	12.9	G	703
C/2015 O1	2018 06 12.21667	12 11 09.21	+51 47 48.2	12.9	G	703
C/2015 O1	2018 06 12.22206	12 11 08.70	+51 47 44.4	13.0	G	703
C/2015 O1	2018 06 12.54968	12 10 41.58	+51 43 45.0	14.3	N	G26
C/2015 O1	2018 06 12.60434	12 10 37.17	+51 43 04.0	15.0	N	G26
C/2015 O1	2018 06 12.805379	12 10 21.087	+51 40 34.87	16.1	N	5 089
C/2015 O1	2018 06 12.813525	12 10 20.391	+51 40 28.64	16.2	N	5 089
C/2015 O1	2018 06 12.815307	12 10 20.286	+51 40 27.18	16.5	N	5 089
C/2015 O1	2018 06 12.817089	12 10 20.165	+51 40 25.66	16.4	N	5 089
C/2015 O1	2018 06 12.818872	12 10 19.992	+51 40 24.64	16.2	N	5 089
C/2015 O1	2018 06 12.822171	12 10 19.728	+51 40 22.37	16.4	N	5 089
C/2015 O1	2018 06 12.823953	12 10 19.548	+51 40 20.71	16.3	N	5 089
C/2015 O1	2018 06 12.825735	12 10 19.460	+51 40 19.62	16.3	N	5 089
C/2015 O1	2018 06 12.827518	12 10 19.268	+51 40 18.27	16.3	N	5 089
C/2015 O1	2018 06 12.829301	12 10 19.109	+51 40 16.71	16.2	N	5 089
C/2015 O1	2018 06 12.847382	12 10 17.658	+51 40 03.27	16.3	N	5 089
C/2015 O1	2018 06 12.849163	12 10 17.514	+51 40 01.98	16.3	N	5 089
C/2015 O1	2018 06 12.853370	12 10 17.209	+51 39 59.13	16.5	N	5 089
C/2015 O1	2018 06 12.855146	12 10 17.015	+51 39 57.49	16.2	N	5 089
C/2015 O1	2018 06 12.89352	12 10 13.90	+51 39 30.1	15.3	N	J01
C/2015 O1	2018 06 12.94015	12 10 10.16	+51 38 55.2	15.4	N	J01
C/2015 O1	2018 06 12.95090	12 10 09.31	+51 38 46.9	15.4	N	J01
C/2015 O1	2018 06 13.59935	12 09 17.35	+51 30 47.2	14.7	N	G26
C/2015 O1	2018 06 13.66128	12 09 12.53	+51 30 02.5	14.9	N	G26
C/2015 O1	2018 06 13.87048	12 08 56.27	+51 27 26.9	15.6	N	213
C/2015 O1	2018 06 13.87861	12 08 55.69	+51 27 20.9	15.5	N	213
C/2015 O1	2018 06 13.89285	12 08 54.59	+51 27 09.4	15.6	N	213
C/2015 O1	2018 06 13.90643	12 08 53.48	+51 26 58.9	15.5	N	C23
C/2015 O1	2018 06 13.90942	12 08 53.26	+51 26 56.6	15.9	N	C23
C/2015 O1	2018 06 13.91242	12 08 53.01	+51 26 54.5	15.7	N	C23
C/2015 O1	2018 06 16.50584	12 05 40.03	+50 54 41.2			K 367
C/2015 O1	2018 06 16.50706	12 05 39.94	+50 54 40.2			K 367
C/2015 O1	2018 06 16.50828	12 05 39.84	+50 54 39.4	13.7	T	K 367
C/2015 O1	2018 06 16.85886	12 05 15.17	+50 50 17.1	15.5	N	107
C/2015 O1	2018 06 16.87192	12 05 14.23	+50 50 07.0	16.0	N	107
C/2015 O1	2018 06 16.88643	12 05 13.18	+50 49 56.1	15.5	N	107
C/2015 O1	2018 06 16.89803	12 05 12.39	+50 49 47.2	15.9	N	107
C/2015 O1	2018 06 16.91724	12 05 11.01	+50 49 32.8	15.4	N	C23
C/2015 O1	2018 06 16.92173	12 05 10.85	+50 49 29.6	15.9	N	C23
C/2015 O1	2018 06 16.92547	12 05 10.48	+50 49 26.5	15.6	N	C23
C/2015 O1	2018 06 17.92103	12 04 02.29	+50 37 01.2	15.6	N	J01
C/2015 O1	2018 06 17.93227	12 04 01.59	+50 36 52.6	15.6	N	J01
C/2015 O1	2018 06 17.94303	12 04 00.86	+50 36 44.5	15.7	N	J01
C/2015 O1	2018 06 17.97582	12 03 58.55	+50 36 19.3	15.7	N	J38
C/2015 O1	2018 06 17.98103	12 03 58.21	+50 36 15.3	15.7	N	J38
C/2015 O1	2018 06 17.98623	12 03 57.86	+50 36 11.6	15.7	N	J38
C/2015 O1	2018 06 18.94451	12 02 54.73	+50 24 12.7	16.0	R	B96
C/2015 O1	2018 06 18.94615	12 02 54.65	+50 24 11.3	16.0	R	B96
C/2015 O1	2018 06 18.94778	12 02 54.51	+50 24 10.0	16.0	R	B96
C/2015 O1	2018 06 18.94942	12 02 54.41	+50 24 09.0	16.0	R	B96
C/2015 O1	2018 06 18.95105	12 02 54.30	+50 24 07.7	16.0	R	B96
C/2015 O1	2018 06 18.95222	12 02 54.20	+50 24 06.8	16.0	N	C23
C/2015 O1	2018 06 18.95269	12 02 54.21	+50 24 06.6	16.0	R	B96
C/2015 O1	2018 06 18.95441	12 02 54.13	+50 24 05.3	16.0	R	B96
C/2015 O1	2018 06 18.95605	12 02 53.98	+50 24 03.9	16.1	R	B96
C/2015 O1	2018 06 18.95769	12 02 53.86	+50 24 02.4	16.0	R	B96
C/2015 O1	2018 06 18.96120	12 02 53.56	+50 24 00.1	15.8	N	C23
C/2015 O1	2018 06 18.97019	12 02 52.96	+50 23 53.3	15.3	N	C23
C/2015 O1	2018 06 19.18401	12 02 39.22	+50 21 14.5	13.4	G	703
C/2015 O1	2018 06 19.18935	12 02 38.84	+50 21 10.2	13.4	G	703
C/2015 O1	2018 06 19.19470	12 02 38.57	+50 21 06.4	13.4	G	703
C/2015 O1	2018 06 19.20005	12 02 38.25	+50 21 02.3	13.4	G	703
C/2015 O1	2018 06 19.30011	12 02 31.68	+50 19 47.5	15.3	o	T05
C/2015 O1	2018 06 19.30998	12 02 31.15	+50 19 39.5	16.5	o	T05
C/2015 O1	2018 06 19.31940	12 02 30.42	+50 19 32.7	15.2	o	T05
C/2015 O1	2018 06 19.32825	12 02 29.84	+50 19 26.1	15.3	o	T05
C/2015 O1	2018 06 20.86961	12 00 54.55	+50 00 07.6	15.6	N	Z55
C/2015 O1	2018 06 20.87053	12 00 54.56	+50 00 07.6	15.5	N	Z55

C/2015 O1	2018 06 20.87155	12 00 54.48	+50 00 06.8	15.5	N	Z55
C/2015 O1	2018 06 20.87225	12 00 54.44	+50 00 06.3	15.5	N	Z55
C/2015 O1	2018 06 20.87433	12 00 54.31	+50 00 04.6	15.4	N	Z55
C/2015 O1	2018 06 20.87573	12 00 54.22	+50 00 03.5	15.5	N	Z55
C/2015 O1	2018 06 20.87642	12 00 54.03	+50 00 03.1	15.4	N	Z55
C/2015 O1	2018 06 20.87839	12 00 54.08	+50 00 01.8	15.5	N	Z55
C/2015 O1	2018 06 20.87904	12 00 54.02	+50 00 00.8	15.5	N	Z55
C/2015 O1	2018 06 20.87969	12 00 54.07	+50 00 00.4	15.5	N	Z55
C/2015 O1	2018 06 20.88035	12 00 54.05	+50 00 00.7	15.5	N	Z55
C/2015 O1	2018 06 20.98765	12 00 47.52	+49 58 38.5	15.8	R	B96
C/2015 O1	2018 06 20.99091	12 00 47.35	+49 58 36.1	15.8	R	B96
C/2015 O1	2018 06 20.99419	12 00 47.18	+49 58 33.7	15.8	R	B96
C/2015 O1	2018 06 20.99755	12 00 46.94	+49 58 31.2	15.9	R	B96
C/2015 O1	2018 06 21.00082	12 00 46.74	+49 58 28.8	15.9	R	B96
C/2015 O1	2018 06 21.56584	12 00 13.38	+49 51 26.7	14.0	N	G26
C/2015 O1	2018 06 21.58941	12 00 11.89	+49 51 07.8	14.3	T	Q11
C/2015 O1	2018 06 21.59796	12 00 11.38	+49 51 01.5			Q11
C/2015 O1	2018 06 21.60650	12 00 10.92	+49 50 55.0			Q11
C/2015 O1	2018 06 21.68360	12 00 05.88	+49 50 01.3	13.9	N	G26
C/2015 O1	2018 06 21.91854	11 59 52.89	+49 47 00.9	15.9	R	B96
C/2015 O1	2018 06 21.92181	11 59 52.70	+49 46 57.5	15.9	R	B96
C/2015 O1	2018 06 21.92671	11 59 52.44	+49 46 54.3	15.9	R	B96
C/2015 O1	2018 06 21.93008	11 59 52.22	+49 46 51.6	15.9	R	B96
C/2015 O1	2018 06 21.93171	11 59 52.13	+49 46 50.0	15.9	R	B96
C/2015 O1	2018 06 21.94926	11 59 51.02	+49 46 37.3	15.6	N	K02
C/2015 O1	2018 06 21.95657	11 59 50.63	+49 46 31.7	15.7	N	K02
C/2015 O1	2018 06 21.96535	11 59 50.13	+49 46 25.4	15.8	N	K02
C/2015 O1	2018 06 22.55591	11 59 16.50	+49 39 06.4	14.7	N	G26
C/2015 O1	2018 06 22.66402	11 59 10.38	+49 37 40.7	13.5	N	G26
C/2015 O1	2018 06 23.28987	11 58 35.76	+49 29 54.2	15.3	o	T05
C/2015 O1	2018 06 23.29500	11 58 35.48	+49 29 50.2	15.3	o	T05
C/2015 O1	2018 06 23.30900	11 58 34.71	+49 29 39.6	15.3	o	T05
C/2015 O1	2018 06 23.31837	11 58 34.17	+49 29 32.5	15.3	o	T05
C/2015 O1	2018 06 23.57175	11 58 20.52	+49 26 24.4	14.4	N	G26
C/2015 O1	2018 06 23.62507	11 58 17.45	+49 25 42.6	14.6	N	G26
C/2015 O1	2018 06 25.91034	11 56 20.36	+48 57 14.1	15.4	N	C23
C/2015 O1	2018 06 25.91483	11 56 20.14	+48 57 10.7	15.8	N	C23
C/2015 O1	2018 06 25.91858	11 56 20.00	+48 57 08.1	15.9	N	C23
C/2015 O1	2018 06 25.92863	11 56 19.53	+48 57 00.2	16.0	R	B96
C/2015 O1	2018 06 25.93354	11 56 19.26	+48 56 56.6	15.9	R	B96
C/2015 O1	2018 06 25.93682	11 56 19.18	+48 56 53.8	16.0	R	B96
C/2015 O1	2018 06 25.93845	11 56 19.10	+48 56 52.6	16.0	R	B96
C/2015 O1	2018 06 25.94171	11 56 18.88	+48 56 50.9	15.9	R	B96
C/2015 O1	2018 06 26.92697	11 55 31.68	+48 44 37.3	15.7	N	L27
C/2015 O1	2018 06 26.92884	11 55 31.70	+48 44 36.0	16.3	R	B96
C/2015 O1	2018 06 26.93374	11 55 31.54	+48 44 31.8	16.2	R	B96
C/2015 O1	2018 06 26.93701	11 55 31.35	+48 44 29.6	16.3	R	B96
C/2015 O1	2018 06 26.94192	11 55 31.11	+48 44 25.9	16.4	R	B96
C/2015 O1	2018 06 26.94215	11 55 31.00	+48 44 26.1	15.9	N	L27
C/2015 O1	2018 06 26.95920	11 55 30.17	+48 44 13.2	15.8	N	L27
C/2015 O1	2018 06 27.92868	11 54 45.85	+48 32 12.6	16.2	R	B96
C/2015 O1	2018 06 27.93523	11 54 45.63	+48 32 07.6	16.1	R	B96
C/2015 O1	2018 06 27.94014	11 54 45.36	+48 32 04.8	15.6	R	B96
C/2015 O1	2018 06 28.92199	11 54 02.22	+48 19 57.9	15.4	N	C23
C/2015 O1	2018 06 28.92648	11 54 02.05	+48 19 54.4	15.7	N	C23
C/2015 O1	2018 06 28.92753	11 54 02.08	+48 19 53.0	16.0	R	B96
C/2015 O1	2018 06 28.93023	11 54 01.88	+48 19 51.7	15.5	N	C23
C/2015 O1	2018 06 28.93244	11 54 01.85	+48 19 50.1	15.9	R	B96
C/2015 O1	2018 06 28.93571	11 54 01.69	+48 19 47.6	16.0	R	B96
C/2015 O1	2018 06 28.94061	11 54 01.58	+48 19 43.6	16.0	R	B96
C/2015 O1	2018 06 29.92347	11 53 20.32	+48 07 39.1	15.9	R	B96
C/2015 O1	2018 06 29.92838	11 53 20.10	+48 07 35.2	15.9	R	B96
C/2015 O1	2018 06 29.93339	11 53 19.90	+48 07 31.3	16.0	R	B96
C/2015 O1	2018 06 29.93830	11 53 19.71	+48 07 27.7	16.0	R	B96
C/2015 O1	2018 06 30.868526	11 52 42.37	+47 56 04.5	16.5	V	C95
C/2015 O1	2018 06 30.870930	11 52 42.21	+47 56 02.9	15.9	V	C95
C/2015 O1	2018 06 30.873205	11 52 42.18	+47 56 01.2	16.5	V	C95
C/2015 O1	2018 06 30.875470	11 52 42.03	+47 55 59.4	16.0	V	C95
C/2015 O1	2018 06 30.877747	11 52 41.99	+47 55 57.6	16.5	V	C95
C/2015 O1	2018 06 30.880010	11 52 41.92	+47 55 55.8	16.6	V	C95
C/2015 O1	2018 06 30.90102	11 52 41.15	+47 55 41.0	16.1	N	9 G40
C/2015 O1	2018 06 30.90652	11 52 40.95	+47 55 36.7	16.0	N	9 G40
C/2015 O1	2018 06 30.91225	11 52 40.66	+47 55 32.5	16.1	N	9 G40
C/2015 O1	2018 07 01.16312	11 52 30.67	+47 52 27.8	13.5	G	703
C/2015 O1	2018 07 01.16849	11 52 30.47	+47 52 23.9	13.5	G	703
C/2015 O1	2018 07 01.17387	11 52 30.27	+47 52 20.0	13.5	G	703
C/2015 O1	2018 07 01.17924	11 52 30.04	+47 52 16.1	13.6	G	703
C/2015 O1	2018 07 01.48684	11 52 18.32	+47 48 31.4			K D81
C/2015 O1	2018 07 01.48850	11 52 18.27	+47 48 30.4			K D81
C/2015 O1	2018 07 01.49016	11 52 18.24	+47 48 29.2	14.5	T	K D81
C/2015 O1	2018 07 01.88043	11 52 03.63	+47 43 42.0	16.2	G	C47
C/2015 O1	2018 07 01.88412	11 52 03.49	+47 43 40.7	17.4	G	C47
C/2015 O1	2018 07 01.88818	11 52 03.30	+47 43 36.2	17.2	G	C47
C/2015 O1	2018 07 01.89223	11 52 02.99	+47 43 35.4	16.6	G	C47
C/2015 O1	2018 07 01.89629	11 52 02.96	+47 43 30.9	16.6	G	C47
C/2015 O1	2018 07 01.90035	11 52 02.80	+47 43 27.9	16.5	G	C47
C/2015 O1	2018 07 01.90763	11 52 02.56	+47 43 23.2	15.7	N	C23
C/2015 O1	2018 07 01.91587	11 52 02.20	+47 43 17.0	15.3	N	C23
C/2015 O1	2018 07 01.92186	11 52 01.98	+47 43 12.9	16.1	N	C23
C/2015 O1	2018 07 01.93804	11 52 01.44	+47 43 00.7	16.1	R	B96
C/2015 O1	2018 07 01.94295	11 52 01.32	+47 42 56.8	16.0	R	B96
C/2015 O1	2018 07 01.94796	11 52 01.11	+47 42 53.6	15.8	R	B96
C/2015 O1	2018 07 01.95287	11 52 00.91	+47 42 50.2	15.9	R	B96
C/2015 O1	2018 07 02.15995	11 51 52.97	+47 40 19.7	14.0	G	G96
C/2015 O1	2018 07 02.16520	11 51 52.78	+47 40 15.9	13.9	G	G96
C/2015 O1	2018 07 02.17046	11 51 52.60	+47 40 12.0	13.9	G	G96
C/2015 O1	2018 07 02.17573	11 51 52.39	+47 40 08.0	13.9	G	G96
C/2015 O1	2018 07 02.87244	11 51 27.44	+47 31 39.2	15.6	N	C86
C/2015 O1	2018 07 02.87543	11 51 27.35	+47 31 37.1	15.7	N	C86
C/2015 O1	2018 07 02.88439	11 51 26.93	+47 31 31.1	15.6	N	C86
C/2015 O1	2018 07 02.91081	11 51 25.96	+47 31 11.3	15.5	N	J01
C/2015 O1	2018 07 02.91808	11 51 25.64	+47 31 06.2	15.4	N	J01
C/2015 O1	2018 07 02.92174	11 51 25.54	+47 31 04.0	15.5	N	J01
C/2015 O1	2018 07 02.92494	11 51 25.48	+47 31 00.8	15.9	R	B96
C/2015 O1	2018 07 02.92985	11 51 25.36	+47 30 56.4	16.0	R	B96
C/2015 O1	2018 07 02.93486	11 51 25.16	+47 30 53.6	16.0	R	B96

C/2015 O1	2018 07 02.93977	11 51 24.97	+47 30 49.1	16.0	R	B96
C/2015 O1	2018 07 02.95348	11 51 24.47	+47 30 39.5	15.8	N	K02
C/2015 O1	2018 07 02.95811	11 51 24.34	+47 30 35.8	15.8	N	K02
C/2015 O1	2018 07 02.96586	11 51 24.03	+47 30 30.5	15.8	N	K02
C/2015 O1	2018 07 05.91381	11 49 46.58	+46 55 00.7	15.2	N	C23
C/2015 O1	2018 07 05.91831	11 49 46.47	+46 54 57.4	15.9	N	C23
C/2015 O1	2018 07 05.92205	11 49 46.37	+46 54 54.3	14.9	N	C23
C/2015 O1	2018 07 05.92509	11 49 46.42	+46 54 51.2	16.1	R	B96
C/2015 O1	2018 07 05.93000	11 49 46.22	+46 54 48.0	16.1	R	B96
C/2015 O1	2018 07 05.93501	11 49 46.00	+46 54 45.4	15.9	R	B96
C/2015 O1	2018 07 05.93991	11 49 45.93	+46 54 41.4	16.0	R	B96
C/2015 O1	2018 07 06.56928	11 49 26.68	+46 47 12.3	14.2	N	G26
C/2015 O1	2018 07 06.63155	11 49 25.16	+46 46 26.6	13.6	N	G26
C/2015 O1	2018 07 06.93012	11 49 16.56	+46 42 51.8	16.2	R	B96
C/2015 O1	2018 07 06.93501	11 49 16.38	+46 42 49.0	16.1	R	B96
C/2015 O1	2018 07 06.94002	11 49 16.32	+46 42 45.8	16.1	R	B96
C/2015 O1	2018 07 06.94493	11 49 15.99	+46 42 42.7	16.0	R	B96
C/2015 O1	2018 07 07.92503	11 48 48.46	+46 31 05.0	16.2	R	B96
C/2015 O1	2018 07 07.92993	11 48 48.31	+46 31 01.6	16.0	R	B96
C/2015 O1	2018 07 07.93037	11 48 48.15	+46 31 01.7	16.0	N	C23
C/2015 O1	2018 07 07.93488	11 48 48.02	+46 30 57.9	15.5	N	C23
C/2015 O1	2018 07 07.93494	11 48 48.28	+46 30 58.5	16.2	R	B96
C/2015 O1	2018 07 07.93862	11 48 47.96	+46 30 55.0	16.1	N	C23
C/2015 O1	2018 07 07.93985	11 48 48.02	+46 30 54.3	15.9	R	B96
C/2015 O1	2018 07 08.92240	11 48 21.84	+46 19 18.5	15.9	R	B96
C/2015 O1	2018 07 08.92566	11 48 21.73	+46 19 17.0	16.0	R	B96
C/2015 O1	2018 07 08.93067	11 48 21.57	+46 19 13.0	16.0	R	B96
C/2015 O1	2018 07 08.93721	11 48 21.44	+46 19 07.8	16.0	R	B96
C/2015 O1	2018 07 12.86659	11 46 50.66	+45 33 29.7	15.5	N	C86
C/2015 O1	2018 07 12.87258	11 46 50.53	+45 33 24.3	15.5	N	C86
C/2015 O1	2018 07 12.87858	11 46 50.51	+45 33 20.0	15.6	N	C86
C/2015 O1	2018 07 12.90625	11 46 49.75	+45 33 01.6	15.4	N	Z55
C/2015 O1	2018 07 12.90694	11 46 49.87	+45 33 01.2	15.3	N	Z55
C/2015 O1	2018 07 12.90764	11 46 49.57	+45 32 57.1	15.4	N	Z55
C/2015 O1	2018 07 12.90838	11 46 49.88	+45 32 59.9	15.3	N	Z55
C/2015 O1	2018 07 12.92640	11 46 49.44	+45 32 47.2	15.9	R	B96
C/2015 O1	2018 07 12.92804	11 46 49.42	+45 32 46.1	15.9	R	B96
C/2015 O1	2018 07 13.26090	11 46 42.70	+45 28 58.3	16.7	c	T05
C/2015 O1	2018 07 13.26931	11 46 42.53	+45 28 52.3	16.6	c	T05
C/2015 O1	2018 07 13.27922	11 46 42.30	+45 28 45.8	16.6	c	T05
C/2015 O1	2018 07 13.28908	11 46 41.97	+45 28 38.9	15.7	c	T05
C/2015 O1	2018 07 13.49189	11 46 38.17	+45 26 19.3	14.5	T	Q11
C/2015 O1	2018 07 13.49904	11 46 38.04	+45 26 14.3			Q11
C/2015 O1	2018 07 13.50902	11 46 37.83	+45 26 07.4			Q11
C/2015 O1	2018 07 13.89235	11 46 30.40	+45 21 44.8	16.8	V	K 215
C/2015 O1	2018 07 13.89364	11 46 30.38	+45 21 43.8	16.9	V	K 215
C/2015 O1	2018 07 13.89492	11 46 30.43	+45 21 42.1	16.7	V	K 215
C/2015 O1	2018 07 13.92797	11 46 29.78	+45 21 19.9	16.0	R	B96
C/2015 O1	2018 07 13.93288	11 46 29.77	+45 21 17.1	16.0	R	B96
C/2015 O1	2018 07 13.93788	11 46 29.60	+45 21 13.4	15.8	R	B96
C/2015 O1	2018 07 13.94279	11 46 29.57	+45 21 10.0	15.9	R	B96
C/2015 O1	2018 07 14.93212	11 46 11.44	+45 09 55.4	16.0	R	B96
C/2015 O1	2018 07 14.93701	11 46 11.27	+45 09 52.0	15.8	R	B96
C/2015 O1	2018 07 14.94204	11 46 11.24	+45 09 48.6	16.0	R	B96
C/2015 O1	2018 07 14.94693	11 46 11.13	+45 09 45.6	15.9	R	B96
C/2015 O1	2018 07 15.51515	11 46 01.18	+45 03 21.5	13.9	T	349
C/2015 O1	2018 07 15.52478	11 46 00.98	+45 03 15.1			349
C/2015 O1	2018 07 15.89829	11 45 54.85	+44 59 01.9	16.2	G	KA77
C/2015 O1	2018 07 15.90167	11 45 54.79	+44 58 59.9	16.3	G	KA77
C/2015 O1	2018 07 15.90660	11 45 54.68	+44 58 56.5	16.2	G	KA77
C/2015 O1	2018 07 15.91219	11 45 54.67	+44 58 52.4	16.2	G	KA77
C/2015 O1	2018 07 16.88156	11 45 39.24	+44 48 02.4	15.6	N	I72
C/2015 O1	2018 07 16.89749	11 45 38.98	+44 47 51.7	15.6	N	I72
C/2015 O1	2018 07 16.91396	11 45 38.74	+44 47 40.7	15.6	N	I72
C/2015 O1	2018 07 17.26656	11 45 33.25	+44 43 45.5	15.8	c	T05
C/2015 O1	2018 07 17.27651	11 45 33.12	+44 43 38.7	15.8	c	T05
C/2015 O1	2018 07 17.28653	11 45 32.90	+44 43 31.8	15.8	c	T05
C/2015 O1	2018 07 17.29660	11 45 32.80	+44 43 25.2	15.8	c	T05
C/2015 O1	2018 07 17.87270	11 45 24.75	+44 37 00.2	15.7	N	C86
C/2015 O1	2018 07 17.87867	11 45 24.67	+44 36 56.6	15.7	N	C86
C/2015 O1	2018 07 17.88464	11 45 24.59	+44 36 52.5	15.6	N	C86
C/2015 O1	2018 07 17.89051	11 45 24.37	+44 36 49.5	15.6	N	I72
C/2015 O1	2018 07 17.90752	11 45 24.20	+44 36 37.8	15.6	N	I72
C/2015 O1	2018 07 17.92575	11 45 23.93	+44 36 25.8	15.6	N	I72
C/2015 O1	2018 07 19.25948	11 45 05.92	+44 21 45.6	15.5	o	T08
C/2015 O1	2018 07 19.26040	11 45 06.03	+44 21 44.5	16.2	o	T08
C/2015 O1	2018 07 19.27126	11 45 05.90	+44 21 37.5	16.4	o	T08
C/2015 O1	2018 07 19.28105	11 45 05.62	+44 21 31.0	15.5	o	T08
C/2015 O1	2018 07 19.89740	11 44 58.27	+44 14 46.0	16.2	N	C23
C/2015 O1	2018 07 19.90173	11 44 58.34	+44 14 42.9	15.9	N	C23
C/2015 O1	2018 07 19.90606	11 44 58.18	+44 14 40.1	15.5	N	C23
C/2015 O1	2018 07 21.26589	11 44 42.96	+43 59 56.9	15.4	o	T05
C/2015 O1	2018 07 21.26635	11 44 42.98	+43 59 56.5	15.4	o	T05
C/2015 O1	2018 07 21.26772	11 44 42.96	+43 59 55.5	15.5	o	T05
C/2015 O1	2018 07 23.25096	11 44 24.24	+43 38 43.5	15.5	o	T08
C/2015 O1	2018 07 23.26017	11 44 24.18	+43 38 37.5	15.5	o	T08
C/2015 O1	2018 07 23.26906	11 44 24.16	+43 38 31.6	16.2	o	T08
C/2015 O1	2018 07 23.28159	11 44 23.93	+43 38 23.5	15.4	o	T08
C/2015 O1	2018 07 23.50419	11 44 22.25	+43 36 02.3			KD81
C/2015 O1	2018 07 23.50854	11 44 22.17	+43 35 59.6	14.3	T	KD81
C/2015 O1	2018 07 23.95663	11 44 18.78	+43 31 13.4	16.0	N	KK02
C/2015 O1	2018 07 23.96437	11 44 18.70	+43 31 08.8	16.1	N	KK02
C/2015 O1	2018 07 25.25208	11 44 09.40	+43 17 41.1	15.5	o	T05
C/2015 O1	2018 07 25.25345	11 44 09.41	+43 17 39.9	15.5	o	T05
C/2015 O1	2018 07 25.26037	11 44 09.38	+43 17 35.6	15.5	o	T05
C/2015 O1	2018 07 25.26129	11 44 09.32	+43 17 35.1	15.5	o	T05
C/2015 O1	2018 07 25.26753	11 44 09.32	+43 17 30.9	15.5	o	T05
C/2015 O1	2018 07 25.26948	11 44 09.24	+43 17 29.9	15.5	o	T05
C/2015 O1	2018 07 25.28147	11 44 09.24	+43 17 22.3	15.5	o	T05
C/2015 O1	2018 07 25.28193	11 44 09.21	+43 17 21.9	15.5	o	T05
C/2015 O1	2018 07 29.90176	11 43 48.99	+42 30 10.5	15.6	N	I72
C/2015 O1	2018 07 29.92060	11 43 48.95	+42 29 59.2	15.7	N	I72
C/2015 O1	2018 07 29.94477	11 43 48.88	+42 29 44.8	15.6	N	I72
C/2015 O1	2018 07 30.87008	11 43 46.90	+42 20 32.3	15.7	N	C23
C/2015 O1	2018 07 30.87757	11 43 47.06	+42 20 28.2	16.1	N	C23
C/2015 O1	2018 07 30.88431	11 43 47.04	+42 20 24.6	15.9	N	C23

C/2015 O1	2018 07 31.24355	11 43 46.38	+42 16 52.2	16.0	o	T08
C/2015 O1	2018 07 31.24401	11 43 46.23	+42 16 52.0	15.5	o	T08
C/2015 O1	2018 07 31.24447	11 43 46.36	+42 16 51.8	16.1	o	T08
C/2015 O1	2018 07 31.25885	11 43 46.24	+42 16 43.1	15.5	o	T08
C/2015 O1	2018 08 02.87835	11 43 45.49	+41 51 10.7	15.8	N	C23
C/2015 O1	2018 08 02.88268	11 43 45.50	+41 51 08.1	15.6	N	C23
C/2015 O1	2018 08 02.88557	11 43 45.43	+41 51 05.6	15.6	N	C23
C/2015 O1	2018 08 05.87469	11 43 50.46	+41 22 45.9	15.8	N	C23
C/2015 O1	2018 08 05.87907	11 43 50.52	+41 22 43.2	16.0	N	C23
C/2015 O1	2018 08 05.88345	11 43 50.56	+41 22 40.7	16.1	N	C23
C/2015 O1	2018 08 08.23876	11 43 58.47	+41 00 59.2	15.7	o	T08
C/2015 O1	2018 08 08.23922	11 43 58.47	+41 00 58.9	16.2	o	T08
C/2015 O1	2018 08 08.23968	11 43 58.56	+41 00 57.6	15.4	o	T08
C/2015 O1	2018 08 08.25584	11 43 58.56	+41 00 49.4	15.5	o	T08
C/2015 O1	2018 08 12.85922	11 44 24.39	+40 19 57.3	15.6	N	I72
C/2015 O1	2018 08 12.87434	11 44 24.61	+40 19 47.3	15.7	N	I72
C/2015 O1	2018 08 12.87511	11 44 24.59	+40 19 48.1	15.7	N	I72
C/2015 O1	2018 08 14.85878	11 44 39.13	+40 02 50.8	15.6	N	I72
C/2015 O1	2018 08 14.87822	11 44 39.25	+40 02 40.9	15.6	N	I72
C/2015 O1	2018 08 14.89743	11 44 39.44	+40 02 31.1	15.5	N	I72
C/2015 O1	2018 08 15.84916	11 44 47.06	+39 54 30.5	15.4	N	K C23
C/2015 O1	2018 08 15.85215	11 44 47.19	+39 54 28.7	16.1	N	K C23
C/2015 O1	2018 08 15.85514	11 44 47.13	+39 54 27.2	15.8	N	K C23
C/2015 O1	2018 08 16.86973	11 44 55.85	+39 46 02.6	16.1	N	9 G40
C/2015 O1	2018 08 16.87530	11 44 55.88	+39 45 59.9	16.2	N	9 G40
C/2015 O1	2018 08 16.88103	11 44 55.95	+39 45 57.1	16.3	N	9 G40
C/2015 O1	2018 08 17.45684	11 45 00.91	+39 41 12.9	14.3	T	349
C/2015 O1	2018 08 17.46299	11 45 01.00	+39 41 10.6			349

C/2015 T2 (PANSTARRS)

C/2015 T2	2018 08 12.49404	22 49 40.31	+50 08 47.8	19.3	o	T08
C/2015 T2	2018 08 12.49865	22 49 39.99	+50 08 47.4	19.4	o	T08
C/2015 T2	2018 08 12.51121	22 49 39.27	+50 08 49.1	19.3	o	T08
C/2015 T2	2018 08 12.51999	22 49 38.49	+50 08 49.6	19.4	o	T08
C/2015 T2	2018 08 16.91062	22 44 24.22	+50 11 30.1	19.8	T	K 461
C/2015 T2	2018 08 16.92473	22 44 23.20	+50 11 30.4	19.4	T	K 461
C/2015 T2	2018 08 20.89314	22 39 33.42	+50 11 07.7	19.1	T	K 461
C/2015 T2	2018 08 20.90160	22 39 32.84	+50 11 07.6	19.5	T	K 461
C/2015 T2	2018 09 10.42601	22 14 22.08	+49 25 56.4			32H06
C/2015 T2	2018 09 10.42863	22 14 21.90	+49 25 56.1			32H06
C/2015 T2	2018 09 10.43125	22 14 21.73	+49 25 55.1	19.0	G	32H06

C/2015 V1 (PANSTARRS)

C/2015 V1	2018 06 14.20527	01 00 21.56	−11 28 03.7	16.9	T	20G40
C/2015 V1	2018 06 14.20583	01 00 21.53	−11 28 03.9	17.2	N	9 G40
C/2015 V1	2018 06 14.20849	01 00 21.53	−11 28 05.8	17.2	T	20G40
C/2015 V1	2018 06 14.21077	01 00 21.55	−11 28 06.4	17.5	N	9 G40
C/2015 V1	2018 06 15.80066	01 00 26.78	−11 42 52.9			1 Q62
C/2015 V1	2018 06 15.80372	01 00 26.79	−11 42 54.7	16.4	w	1 Q62
C/2015 V1	2018 06 29.57289	00 59 51.46	−14 08 07.1	16.9	o	T05
C/2015 V1	2018 06 29.58080	00 59 51.40	−14 08 12.3	16.9	o	T05
C/2015 V1	2018 06 29.58865	00 59 51.33	−14 08 19.0	17.9	o	T05
C/2015 V1	2018 06 29.59663	00 59 51.25	−14 08 24.6	16.9	o	T05
C/2015 V1	2018 07 14.16522	00 56 08.76	−17 16 23.6	17.2	N	J22
C/2015 V1	2018 07 14.16914	00 56 08.72	−17 16 26.9	17.2	N	J22
C/2015 V1	2018 07 14.17308	00 56 08.62	−17 16 30.0	17.2	N	J22
C/2015 V1	2018 07 16.58503	00 55 10.46	−17 50 59.7	16.9	o	T08
C/2015 V1	2018 07 16.59291	00 55 10.25	−17 51 06.3	16.9	o	T08
C/2015 V1	2018 07 16.60076	00 55 10.04	−17 51 13.1	16.9	o	T08
C/2015 V1	2018 07 16.60863	00 55 09.84	−17 51 20.1	17.0	o	T08
C/2015 V1	2018 07 22.13086	00 52 31.84	−19 13 43.8	17.1	N	J22
C/2015 V1	2018 07 22.13675	00 52 31.75	−19 13 48.3	17.1	N	J22
C/2015 V1	2018 07 22.13872	00 52 31.63	−19 13 49.5	17.1	N	J22
C/2015 V1	2018 07 22.55964	00 52 18.11	−19 20 16.0	16.8	o	T05
C/2015 V1	2018 07 22.56702	00 52 17.85	−19 20 23.3	17.8	o	T05
C/2015 V1	2018 07 22.57586	00 52 17.55	−19 20 31.3	17.9	o	T05
C/2015 V1	2018 07 22.58324	00 52 17.29	−19 20 37.9	17.9	o	T05
C/2015 V1	2018 07 24.56956	00 51 10.76	−19 51 26.5	16.6	o	T08
C/2015 V1	2018 07 24.57787	00 51 10.48	−19 51 34.1	17.3	o	T08
C/2015 V1	2018 07 24.58665	00 51 10.15	−19 51 42.0	16.8	o	T08
C/2015 V1	2018 07 26.50866	00 50 01.24	−20 22 02.6	18.0	o	T05
C/2015 V1	2018 07 26.51386	00 50 01.02	−20 22 06.9	17.7	o	T05
C/2015 V1	2018 07 26.51812	00 50 00.85	−20 22 10.3	17.0	o	T05
C/2015 V1	2018 07 26.52427	00 50 00.67	−20 22 16.8	16.9	o	T05
C/2015 V1	2018 08 01.54350	00 45 55.24	−22 00 04.6	17.6	o	T08
C/2015 V1	2018 08 01.55133	00 45 54.85	−22 00 12.9	17.1	o	T08
C/2015 V1	2018 08 01.55918	00 45 54.50	−22 00 20.4	17.5	o	T08
C/2015 V1	2018 08 01.56703	00 45 54.05	−22 00 28.2	17.6	o	T08
C/2015 V1	2018 08 04.06716	00 43 58.85	−22 42 11.1	17.3	R	K 215
C/2015 V1	2018 08 04.06844	00 43 58.82	−22 42 12.9	17.9	R	K 215
C/2015 V1	2018 08 04.06972	00 43 58.72	−22 42 13.5	17.2	R	K 215
C/2015 V1	2018 08 05.74774	00 42 36.83	−23 10 30.7	16.8	T	K Q11
C/2015 V1	2018 08 05.75128	00 42 36.66	−23 10 34.3			K Q11
C/2015 V1	2018 08 05.76199	00 42 36.10	−23 10 45.4			K Q11
C/2015 V1	2018 08 17.23505	00 31 40.90	−26 27 45.2	18.8	N	1W88
C/2015 V1	2018 08 17.25219	00 31 39.82	−26 28 02.7	18.8	N	1W88
C/2015 V1	2018 08 18.68462	00 30 06.51	−26 52 46.5	16.3	T	349
C/2015 V1	2018 08 18.69596	00 30 05.72	−26 52 58.8			349
C/2015 V1	2018 08 19.57816	00 29 07.09	−27 08 09.2	16.8	o	T05
C/2015 V1	2018 08 19.58842	00 29 06.36	−27 08 19.5	16.8	o	T05
C/2015 V1	2018 08 19.59903	00 29 05.67	−27 08 30.7	16.9	o	T05
C/2015 V1	2018 08 19.60920	00 29 04.97	−27 08 40.7	16.7	o	T05
C/2015 V1	2018 08 21.56144	00 26 51.97	−27 42 09.1	16.9	o	T08
C/2015 V1	2018 08 21.57187	00 26 51.19	−27 42 20.3	16.9	o	T08
C/2015 V1	2018 08 21.58159	00 26 50.53	−27 42 29.8	16.8	o	T08
C/2015 V1	2018 08 21.59179	00 26 49.80	−27 42 40.2	16.8	o	T08
C/2015 V1	2018 08 31.46853	00 14 33.41	−30 27 30.5	17.7	o	T05
C/2015 V1	2018 08 31.47447	00 14 32.96	−30 27 36.1	16.7	o	T05
C/2015 V1	2018 08 31.48392	00 14 32.19	−30 27 44.8	17.6	o	T05
C/2015 V1	2018 08 31.49077	00 14 31.61	−30 27 52.2	17.8	o	T05
C/2015 V1	2018 09 04.04825	00 09 43.84	−31 24 19.1	17.0	N	J22
C/2015 V1	2018 09 04.05237	00 09 43.46	−31 24 22.4	17.0	N	J22
C/2015 V1	2018 09 04.05627	00 09 43.11	−31 24 25.0	17.0	N	J22
C/2015 V1	2018 09 04.19310	00 09 31.83	−31 26 31.8	17.4	N	3W88
C/2015 V1	2018 09 04.19838	00 09 31.41	−31 26 36.4	17.5	N	3W88
C/2015 V1	2018 09 04.20360	00 09 30.99	−31 26 41.8	17.6	N	3W88
C/2015 V1	2018 09 14.42342	23 54 55.92	−33 55 26.7	16.9	o	T08

C/2015 V1	2018 09 14.42849	23 54 55.49	−33 55 30.4	16.9	o		T08
C/2015 V1	2018 09 14.43678	23 54 54.74	−33 55 37.8	16.7	o		T08
C/2015 V1	2018 09 14.44370	23 54 54.13	−33 55 43.5	17.0	o		T08
C/2015 V1	2018 09 18.46950	23 48 57.87	−34 47 47.7	17.1	o		T08
C/2015 V1	2018 09 18.47972	23 48 56.92	−34 47 54.7	16.9	o		T08
C/2015 V1	2018 09 18.48947	23 48 56.12	−34 48 02.2	17.7	o		T08
C/2015 V1	2018 09 18.49740	23 48 55.40	−34 48 06.2	16.4	o		T08

C/2015 V2 (Johnson)

C/2015 V2	2018 06 18.38222	01 50 09.50	−44 23 12.9	15.2	R	K	I47
C/2015 V2	2018 06 18.38939	01 50 09.83	−44 23 14.8	15.2	R	K	I47
C/2015 V2	2018 06 18.39584	01 50 10.11	−44 23 16.7	15.2	R	K	I47
C/2015 V2	2018 06 19.29104	01 50 52.11	−44 27 24.0	16.7	R		Y00
C/2015 V2	2018 06 19.29871	01 50 52.42	−44 27 26.2	16.9	R		Y00
C/2015 V2	2018 06 19.30569	01 50 52.77	−44 27 28.5	17.0	R		Y00
C/2015 V2	2018 06 19.35184	01 50 54.92	−44 27 39.1	16.1	N		3W88
C/2015 V2	2018 06 19.35593	01 50 55.18	−44 27 39.7	16.2	N		3W88
C/2015 V2	2018 06 19.35984	01 50 55.38	−44 27 41.6	16.3	N		3W88
C/2015 V2	2018 06 19.36398	01 50 55.54	−44 27 42.3	16.1	N		3W88
C/2015 V2	2018 06 23.60858	01 54 05.13	−44 48 19.1	19	R		C51
Geocentric position (km)	+ 4984.5135	+ 1872.0898	− 4334.2834				
C/2015 V2	2018 06 23.93583	01 54 19.06	−44 49 59.5				C51
Geocentric position (km)	+ 4955.1949	+ 1887.0795	− 4361.4120				
C/2015 V2	2018 06 24.00129	01 54 21.93	−44 50 21.7				C51
Geocentric position (km)	+ 4949.2925	+ 1890.0235	− 4366.8523				
C/2015 V2	2018 06 24.06674	01 54 24.56	−44 50 39.0				C51
Geocentric position (km)	+ 4943.3979	+ 1892.9638	− 4372.2708				
C/2015 V2	2018 06 24.59022	01 54 46.83	−44 53 22.3				C51
Geocentric position (km)	+ 4939.8079	+ 1948.1359	− 4352.1094				
C/2015 V2	2018 06 24.65567	01 54 49.55	−44 53 41.9				C51
Geocentric position (km)	+ 4933.8931	+ 1951.0364	− 4357.5317				
C/2015 V2	2018 06 24.72113	01 54 52.25	−44 54 02.5				C51
Geocentric position (km)	+ 4927.9569	+ 1953.9109	− 4362.9785				
C/2015 V2	2018 07 14.81947	02 05 46.76	−46 57 29.9				1 Q62
C/2015 V2	2018 07 14.82241	02 05 46.84	−46 57 31.0	14.7	w		1 Q62
C/2015 V2	2018 08 08.35253	02 09 15.49	−50 01 18.7	16.2	N		W96
C/2015 V2	2018 08 08.36324	02 09 15.42	−50 01 24.4	16.0	N		W96
C/2015 V2	2018 08 08.37470	02 09 15.34	−50 01 28.7	16.2	N		W96
C/2015 V2	2018 08 09.67079	02 09 06.30	−50 11 26.1	16.8	G		Q38
C/2015 V2	2018 08 09.67373	02 09 06.25	−50 11 25.9	17.5	G		Q38
C/2015 V2	2018 08 09.67668	02 09 06.02	−50 11 29.1	16.5	G		Q38
C/2015 V2	2018 08 14.34141	02 08 15.04	−50 46 59.7	15.8	N		W96
C/2015 V2	2018 08 14.37169	02 08 14.61	−50 47 12.7	16.0	N		W96
C/2015 V2	2018 08 20.22929	02 06 31.19	−51 30 30.5	16.7	R		Y00
C/2015 V2	2018 08 20.23824	02 06 30.97	−51 30 36.5	16.8	R		Y00
C/2015 V2	2018 08 20.25476	02 06 30.61	−51 30 43.8	16.8	R		Y00
C/2015 V2	2018 08 21.14021	02 06 11.30	−51 37 03.5	16.9	R		Y00
C/2015 V2	2018 08 21.15016	02 06 11.04	−51 37 08.7	17.1	R		Y00
C/2015 V2	2018 08 21.16027	02 06 10.89	−51 37 13.4	17.1	R		Y00
C/2015 V2	2018 08 23.65155	02 05 10.86	−51 54 48.8	16.1	N		E94
C/2015 V2	2018 08 23.65404	02 05 10.73	−51 54 50.0	16.1	N		E94
C/2015 V2	2018 08 23.65654	02 05 10.72	−51 54 51.2	16.1	N		E94
C/2015 V2	2018 08 23.65909	02 05 10.59	−51 54 52.2	16.1	N		E94
C/2015 V2	2018 08 30.31994	02 01 53.24	−52 39 22.6	16.1	N		W96
C/2015 V2	2018 08 30.35355	02 01 52.07	−52 39 36.5	16.0	N		W96
C/2015 V2	2018 09 03.21007	01 59 33.95	−53 03 14.4	16.6	N		3W88
C/2015 V2	2018 09 03.21543	01 59 33.83	−53 03 15.9	16.6	N		3W88
C/2015 V2	2018 09 03.22105	01 59 33.61	−53 03 18.1	16.6	N		3W88

C/2015 VL_{62} (Lemmon-Yeung-PANSTARRS)

C/2015 VL_{62}	2018 06 18.40571	16 49 53.08	−28 10 54.7	18.5	o		T08
C/2015 VL_{62}	2018 06 18.41080	16 49 52.49	−28 10 53.1	18.2	o		T08
C/2015 VL_{62}	2018 06 18.41126	16 49 52.44	−28 10 53.4	18.1	o		T08
C/2015 VL_{62}	2018 06 18.41172	16 49 52.46	−28 10 54.2	17.5	o		T08
C/2015 VL_{62}	2018 06 18.42374	16 49 50.65	−28 10 52.2	18.2	o		T08
C/2015 VL_{62}	2018 07 04.42049	16 17 38.42	−27 32 01.1	19.3	N		Q68
C/2015 VL_{62}	2018 07 04.45449	16 17 34.89	−27 31 53.6	18.4	N		Q68
C/2015 VL_{62}	2018 07 09.56742	16 09 01.48	−27 15 42.6	18.2	N	K	Q68
C/2015 VL_{62}	2018 07 09.58236	16 09 00.00	−27 15 41.6	19.4	N	K	Q68
C/2015 VL_{62}	2018 07 12.33678	16 04 46.23	−27 06 47.2	19.2	o		T08
C/2015 VL_{62}	2018 07 12.34416	16 04 45.46	−27 06 45.9	18.5	o		T08
C/2015 VL_{62}	2018 07 12.34462	16 04 45.48	−27 06 45.7	18.7	o		T08
C/2015 VL_{62}	2018 07 12.35204	16 04 44.72	−27 06 43.3	18.7	o		T08
C/2015 VL_{62}	2018 07 12.35250	16 04 44.76	−27 06 44.9	19.0	o		T08
C/2015 VL_{62}	2018 07 12.36939	16 04 43.18	−27 06 40.4	18.9	o		T08
C/2015 VL_{62}	2018 07 15.46400	16 00 16.98	−26 56 37.2	18.4	N	K	Q68
C/2015 VL_{62}	2018 07 15.48700	16 00 15.00	−26 56 32.3	18.0	N	K	Q68
C/2015 VL_{62}	2018 07 16.38822	15 59 01.43	−26 53 37.9	18.2	N		Q68
C/2015 VL_{62}	2018 07 16.41565	15 58 59.22	−26 53 31.7	18.7	N		Q68

C/2015 X5 (PANSTARRS)

C/2015 X5	2018 09 11.47263	07 06 12.94	+58 49 43.8	19.5	G		703
C/2015 X5	2018 09 11.48102	07 06 12.97	+58 49 48.3	19.9	G		703
C/2015 X5	2018 09 11.48942	07 06 13.02	+58 49 52.4	19.4	G		703
C/2015 X5	2018 09 11.49781	07 06 13.28	+58 49 55.1	19.4	G		703
C/2015 X5	2018 09 16.10770	07 06 47.10	+59 26 10.8	19.4	T	K	461
C/2015 X5	2018 09 16.11257	07 06 47.15	+59 26 13.0	19.3	T	K	461
C/2015 X5	2018 09 16.11744	07 06 47.21	+59 26 15.2	19.4	T	K	461
C/2015 X5	2018 09 16.12231	07 06 47.22	+59 26 17.5	19.1	T	K	461

C/2016 A1 (PANSTARRS)

C/2016 A1	2018 02 19.84634	07 42 34.99	+41 50 19.4	17.6	N	K	160
C/2016 A1	2018 02 19.84887	07 42 34.80	+41 50 19.6	17.6	N	K	160
C/2016 A1	2018 02 19.85139	07 42 34.62	+41 50 20.7	17.6	N	K	160
C/2016 A1	2018 04 14.17983	07 06 02.85	+44 30 47.2			5	U69
C/2016 A1	2018 04 14.18208	07 06 02.84	+44 30 47.0	16.9	w	5	U69
C/2016 A1	2018 04 21.84770	07 05 20.69	+44 40 59.6	16.8	N	K	585
C/2016 A1	2018 04 21.84841	07 05 20.67	+44 40 59.7	17.0	N	K	585
C/2016 A1	2018 04 21.84912	07 05 20.69	+44 41 00.1	17.0	N	K	585
C/2016 A1	2018 04 21.84984	07 05 20.68	+44 41 00.2	16.8	N	K	585
C/2016 A1	2018 04 21.85055	07 05 20.67	+44 40 59.6	16.9	N	K	585
C/2016 A1	2018 04 21.85126	07 05 20.74	+44 40 59.7	16.7	N	K	585
C/2016 A1	2018 04 21.85196	07 05 20.74	+44 40 59.9	17.1	N	K	585
C/2016 A1	2018 04 21.85338	07 05 20.72	+44 41 00.2	16.9	N	K	585
C/2016 A1	2018 04 21.85409	07 05 20.73	+44 40 59.9	16.9	N	K	585
C/2016 A1	2018 04 21.85480	07 05 20.69	+44 41 00.2	16.7	N	K	585
C/2016 A1	2018 04 21.85551	07 05 20.68	+44 41 00.2	17.0	N	K	585

C/2016 A1	2018 04 21.85622	07 05 20.69	+44 40 59.8	16.9	N	K	585
C/2016 A1	2018 04 21.85692	07 05 20.67	+44 40 59.8	17.0	N	K	585
C/2016 A1	2018 04 21.85763	07 05 20.69	+44 40 59.9	17.0	N	K	585
C/2016 A1	2018 04 22.82197	07 05 19.60	+44 42 15.1	16.9	N		585
C/2016 A1	2018 04 22.82267	07 05 19.51	+44 42 14.9	17.0	N		585
C/2016 A1	2018 04 22.82338	07 05 19.50	+44 42 14.5	17.1	N		585
C/2016 A1	2018 04 22.82409	07 05 19.56	+44 42 14.6	16.8	N		585
C/2016 A1	2018 04 22.82480	07 05 19.47	+44 42 15.6	16.6	N		585
C/2016 A1	2018 04 22.82550	07 05 19.60	+44 42 15.1	17.0	N		585
C/2016 A1	2018 04 22.82621	07 05 19.57	+44 42 15.7	17.0	N		585
C/2016 A1	2018 04 22.82692	07 05 19.46	+44 42 15.7	17.0	N		585
C/2016 A1	2018 04 22.82763	07 05 19.57	+44 42 14.8	16.8	N		585
C/2016 A1	2018 04 22.82834	07 05 19.53	+44 42 15.7	17.3	N		585
C/2016 A1	2018 04 22.82905	07 05 19.50	+44 42 15.4	17.1	N		585
C/2016 A1	2018 04 22.82975	07 05 19.56	+44 42 15.0	17.0	N		585
C/2016 A1	2018 04 22.83047	07 05 19.54	+44 42 15.8	17.1	N		585
C/2016 A1	2018 04 22.83259	07 05 19.52	+44 42 15.5	17.1	N		585
C/2016 A1	2018 04 22.83402	07 05 19.45	+44 42 15.6	17.0	N		585
C/2016 A1	2018 05 01.87451	07 05 49.55	+44 53 50.3	16.9	N		I72
C/2016 A1	2018 05 01.89264	07 05 49.64	+44 53 51.6	17.0	N		I72
C/2016 A1	2018 05 01.91087	07 05 49.78	+44 53 53.1	17.0	N		I72
C/2016 A1	2018 05 05.91367	07 06 25.16	+44 59 07.1	16.3	N	K	B50
C/2016 A1	2018 05 05.93169	07 06 25.64	+44 59 06.1	17.4	N	K	B50
C/2016 A1	2018 05 06.90462	07 06 35.97	+45 00 22.2	16.9	N	K	585
C/2016 A1	2018 05 06.90535	07 06 36.04	+45 00 22.8	16.5	N	K	585
C/2016 A1	2018 05 06.90905	07 06 36.10	+45 00 22.1	16.9	N	K	585
C/2016 A1	2018 05 06.90979	07 06 36.13	+45 00 22.2	16.8	N	K	585
C/2016 A1	2018 05 06.91477	07 06 36.16	+45 00 22.9	17.4	N	K	585
C/2016 A1	2018 05 06.91632	07 06 36.15	+45 00 23.8	17.3	N	K	585
C/2016 A1	2018 05 06.91834	07 06 36.12	+45 00 24.2	18.0	N	K	585
C/2016 A1	2018 08 13.12133	07 58 32.70	+49 35 47.4	17.0	N		I72
C/2016 A1	2018 08 13.13828	07 58 33.32	+49 35 51.1	17.0	N		I72
C/2016 A1	2018 08 13.15619	07 58 34.05	+49 35 58.2	17.1	N		I72
C/2016 A1	2018 09 06.15095	08 12 37.42	+52 07 11.6	16.5	N		I81
C/2016 A1	2018 09 06.15529	08 12 37.48	+52 07 12.1	16.5	N		I81
C/2016 A1	2018 09 06.15819	08 12 37.54	+52 07 14.0	16.6	N		I81
C/2016 A1	2018 09 12.06583	08 15 35.37	+52 52 37.3	17.0	R		113
C/2016 A1	2018 09 12.07034	08 15 35.47	+52 52 39.1	16.9	R		113
C/2016 A1	2018 09 12.07484	08 15 35.63	+52 52 40.8	16.9	R		113
C/2016 A1	2018 09 12.07934	08 15 35.75	+52 52 42.7	16.9	R		113
C/2016 A1	2018 09 12.08404	08 15 35.88	+52 52 45.4	16.9	R		113

C/2016 M1 (PANSTARRS)

C/2016 M1	2018 03 15.37792	19 24 41.66	−00 27 50.6	13.8	N	14	W88
C/2016 M1	2018 03 15.37877	19 24 41.71	−00 27 50.9	13.8	N	14	W88
C/2016 M1	2018 03 15.37966	19 24 41.74	−00 27 51.5	13.8	N	14	W88
C/2016 M1	2018 03 15.38117	19 24 41.79	−00 27 52.0	13.7	N	14	W88
C/2016 M1	2018 03 15.38205	19 24 41.84	−00 27 52.3	13.7	N	14	W88
C/2016 M1	2018 03 15.38291	19 24 41.87	−00 27 52.7	13.8	N	14	W88
C/2016 M1	2018 04 14.39523	19 40 33.34	−05 06 36.4	13.5	N	14	W88
C/2016 M1	2018 04 14.39611	19 40 33.36	−05 06 36.9	13.5	N	14	W88
C/2016 M1	2018 04 14.39697	19 40 33.36	−05 06 37.7	13.5	N	14	W88
C/2016 M1	2018 04 14.39855	19 40 33.39	−05 06 38.9	13.5	N	14	W88
C/2016 M1	2018 04 14.39942	19 40 33.40	−05 06 39.5	13.6	N	14	W88
C/2016 M1	2018 04 14.40029	19 40 33.42	−05 06 40.1	13.5	N	14	W88
C/2016 M1	2018 04 14.40198	19 40 33.45	−05 06 41.4	13.5	N	14	W88
C/2016 M1	2018 04 14.40285	19 40 33.46	−05 06 42.1	13.5	N	14	W88
C/2016 M1	2018 04 14.40372	19 40 33.47	−05 06 42.7	13.5	N	14	W88
C/2016 M1	2018 04 19.76323	19 41 47.05	−06 17 56.2	13.5	N		Q68
C/2016 M1	2018 04 19.78000	19 41 47.16	−06 18 10.9	13.4	N		Q68
C/2016 M1	2018 05 08.40308	19 39 59.54	−11 58 23.9	13.5	R	K	H47
C/2016 M1	2018 05 08.41155	19 39 59.31	−11 58 35.7	13.5	R	K	H47
C/2016 M1	2018 05 08.41850	19 39 59.17	−11 58 45.2	13.5	R	K	H47
C/2016 M1	2018 05 10.37040	19 39 06.21	−12 45 10.1	13.5	R	K	H47
C/2016 M1	2018 05 10.37810	19 39 05.93	−12 45 21.6	13.5	R	K	H47
C/2016 M1	2018 05 10.38524	19 39 05.72	−12 45 32.1	13.1	R	K	H47
C/2016 M1	2018 05 11.02127	19 38 46.32	−13 01 12.2	12.6	N		585
C/2016 M1	2018 05 11.02157	19 38 46.30	−13 01 12.7	12.7	N		585
C/2016 M1	2018 05 11.02176	19 38 46.30	−13 01 12.9	12.7	N		585
C/2016 M1	2018 05 11.02192	19 38 46.30	−13 01 13.1	12.7	N		585
C/2016 M1	2018 05 11.02214	19 38 46.33	−13 01 14.2	12.6	N		585
C/2016 M1	2018 05 11.02336	19 38 46.28	−13 01 16.1	12.7	N		585
C/2016 M1	2018 05 11.02408	19 38 46.23	−13 01 17.0	12.7	N		585
C/2016 M1	2018 05 11.02480	19 38 46.27	−13 01 17.2	12.7	N		585
C/2016 M1	2018 05 11.02552	19 38 46.17	−13 01 18.5	12.6	N		585
C/2016 M1	2018 05 11.02638	19 38 46.19	−13 01 20.1	12.7	N		585
C/2016 M1	2018 05 11.02710	19 38 46.17	−13 01 21.1	12.7	N		585
C/2016 M1	2018 05 11.02782	19 38 46.13	−13 01 22.4	12.7	N		585
C/2016 M1	2018 05 11.02854	19 38 46.11	−13 01 23.7	12.7	N		585
C/2016 M1	2018 05 11.02927	19 38 46.01	−13 01 24.3	12.7	N		585
C/2016 M1	2018 05 11.39153	19 38 34.51	−13 10 26.5	13.0	R	K	H47
C/2016 M1	2018 05 11.40089	19 38 34.20	−13 10 40.0	13.0	R	K	H47
C/2016 M1	2018 05 11.40986	19 38 33.90	−13 10 53.5	13.1	R	K	H47
C/2016 M1	2018 05 12.23942	19 38 06.28	−13 31 50.5	12.9	N	14	W88
C/2016 M1	2018 05 12.24029	19 38 06.26	−13 31 51.9	13.4	N	14	W88
C/2016 M1	2018 05 12.24116	19 38 06.22	−13 31 53.2	13.0	N	14	W88
C/2016 M1	2018 05 12.24235	19 38 06.18	−13 31 55.0	13.0	N	14	W88
C/2016 M1	2018 05 12.24324	19 38 06.15	−13 31 56.4	12.9	N	14	W88
C/2016 M1	2018 05 12.24412	19 38 06.12	−13 31 57.8	13.0	N	14	W88
C/2016 M1	2018 05 12.24582	19 38 06.06	−13 32 00.4	13.0	N	14	W88
C/2016 M1	2018 05 12.24670	19 38 06.02	−13 32 01.7	13.0	N	14	W88
C/2016 M1	2018 05 12.24758	19 38 05.99	−13 32 03.1	13.0	N	14	W88
C/2016 M1	2018 05 12.40039	19 38 00.52	−13 36 04.2	12.9	R		H47
C/2016 M1	2018 05 12.41430	19 38 00.02	−13 36 25.6	12.7	R		H47
C/2016 M1	2018 05 12.41872	19 37 59.85	−13 36 32.5	13.0	R		H47
C/2016 M1	2018 05 14.63504	19 36 35.29	−14 35 20.6				D95
C/2016 M1	2018 05 14.63796	19 36 35.17	−14 35 25.2				D95
C/2016 M1	2018 05 14.64454	19 36 34.89	−14 35 35.9	10.5	T		D95
C/2016 M1	2018 05 19.69010	19 32 26.31	−17 02 43.9	10.0	T		349
C/2016 M1	2018 05 19.69389	19 32 26.08	−17 02 51.0				349
C/2016 M1	2018 05 19.69765	19 32 25.87	−17 02 58.1				349
C/2016 M1	2018 05 19.70137	19 32 25.65	−17 03 05.2				349
C/2016 M1	2018 05 19.74416	19 32 23.14	−17 04 25.0			K	367
C/2016 M1	2018 05 19.74537	19 32 23.06	−17 04 27.2			K	367
C/2016 M1	2018 05 19.74659	19 32 22.99	−17 04 29.5	9.6	T	K	367
C/2016 M1	2018 05 20.71100	19 31 25.77	−17 34 51.0	10.2	T		D95

C/2016 M1	2018 05 20.71466	19 31 25.56	−17 34 58.0				D95
C/2016 M1	2018 05 20.71905	19 31 25.28	−17 35 06.2				D95
C/2016 M1	2018 05 21.04103	19 31 05.49	−17 45 24.1	13.2	N	K	A71
C/2016 M1	2018 05 21.04196	19 31 05.42	−17 45 25.6	13.2	N	K	A71
C/2016 M1	2018 05 21.04287	19 31 05.37	−17 45 27.5	13.2	N	K	A71
C/2016 M1	2018 05 21.04379	19 31 05.29	−17 45 29.4	13.2	N	K	A71
C/2016 M1	2018 05 21.04471	19 31 05.23	−17 45 31.0	13.2	N	K	A71
C/2016 M1	2018 05 22.63176	19 29 22.10	−18 37 27.2				D95
C/2016 M1	2018 05 22.63322	19 29 22.01	−18 37 30.3				D95
C/2016 M1	2018 05 22.64052	19 29 21.50	−18 37 44.7	10.0	T		D95
C/2016 M1	2018 05 22.999049	19 28 56.792	−18 49 45.95	14.4	G	5	089
C/2016 M1	2018 05 23.000829	19 28 56.672	−18 49 49.44	13.7	G	5	089
C/2016 M1	2018 05 23.002613	19 28 56.521	−18 49 53.33	13.9	G	5	089
C/2016 M1	2018 05 23.004395	19 28 56.421	−18 49 56.82	13.8	G	5	089
C/2016 M1	2018 05 23.006178	19 28 56.274	−18 50 00.24	13.1	G	5	089
C/2016 M1	2018 05 23.011814	19 28 55.877	−18 50 12.03	13.8	G	5	089
C/2016 M1	2018 05 23.013596	19 28 55.749	−18 50 15.41	13.8	G	5	089
C/2016 M1	2018 05 23.015379	19 28 55.648	−18 50 18.70	13.7	G	5	089
C/2016 M1	2018 05 23.017161	19 28 55.506	−18 50 22.36	13.7	G	5	089
C/2016 M1	2018 05 23.021026	19 28 55.226	−18 50 30.45	13.6	G	5	089
C/2016 M1	2018 05 23.022809	19 28 55.091	−18 50 34.12	13.1	G	5	089
C/2016 M1	2018 05 23.024591	19 28 54.988	−18 50 37.21	13.2	G	5	089
C/2016 M1	2018 05 23.028156	19 28 54.712	−18 50 44.63	13.1	G	5	089
C/2016 M1	2018 05 24.09899	19 27 38.34	−19 27 13.9	12.4	N		J22
C/2016 M1	2018 05 24.10152	19 27 38.16	−19 27 18.6	12.4	N		J22
C/2016 M1	2018 05 24.10402	19 27 37.96	−19 27 23.7	12.4	N		J22
C/2016 M1	2018 05 25.26051	19 26 10.20	−20 07 45.6	13.5	N	11	W88
C/2016 M1	2018 05 25.26310	19 26 09.99	−20 07 50.8	13.2	N	11	W88
C/2016 M1	2018 05 25.26485	19 26 09.86	−20 07 54.8	13.3	N	11	W88
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C/2016 M1	2018 05 26.72483	19 24 11.40	−21 00 35.5			K	D81
C/2016 M1	2018 05 26.72635	19 24 11.17	−21 00 38.5			K	D81
C/2016 M1	2018 05 26.72788	19 24 11.11	−21 00 41.9	9.7	T	K	D81
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C/2016 M1	2018 05 26.76256	19 24 08.13	−21 01 58.3	9.4	T	K	367
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C/2016 M1	2018 05 28.62923	19 21 23.56	−22 11 41.6				D95
C/2016 M1	2018 05 28.63289	19 21 23.22	−22 11 50.0				D95
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C/2016 M1	2018 05 29.02671	19 20 46.38	−22 26 54.0	12.2	N		585
C/2016 M1	2018 05 29.02722	19 20 46.32	−22 26 55.3	12.1	N		585
C/2016 M1	2018 05 29.02748	19 20 46.24	−22 26 55.3	12.2	N		585
C/2016 M1	2018 05 29.02774	19 20 46.26	−22 26 56.3	12.2	N		585
C/2016 M1	2018 05 29.02800	19 20 46.25	−22 26 57.0	12.2	N		585
C/2016 M1	2018 05 29.02826	19 20 46.23	−22 26 57.8	12.2	N		585
C/2016 M1	2018 05 29.02852	19 20 46.20	−22 26 58.3	12.2	N		585
C/2016 M1	2018 05 29.02878	19 20 46.09	−22 26 58.5	12.2	N		585
C/2016 M1	2018 05 29.02904	19 20 46.11	−22 26 59.0	12.1	N		585
C/2016 M1	2018 05 29.02943	19 20 46.10	−22 27 00.3	12.2	N		585
C/2016 M1	2018 05 29.03305	19 20 45.72	−22 27 08.3	12.2	N		585
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C/2016 M1	2018 05 29.03464	19 20 45.60	−22 27 12.3	12.2	N		585
C/2016 M1	2018 05 29.03477	19 20 45.59	−22 27 12.5	12.3	N		585
C/2016 M1	2018 05 29.03503	19 20 45.59	−22 27 13.3	12.2	N		585
C/2016 M1	2018 05 29.03689	19 20 45.34	−22 27 17.4	12.2	N		585
C/2016 M1	2018 05 29.03913	19 20 45.17	−22 27 22.5	12.2	N		585
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C/2016 M1	2018 06 01.01274	19 15 44.85	−24 24 54.3	12.1	N		585
C/2016 M1	2018 06 01.01310	19 15 44.83	−24 24 54.9	12.1	N		585
C/2016 M1	2018 06 01.01346	19 15 44.85	−24 24 56.9	12.1	N		585
C/2016 M1	2018 06 01.01383	19 15 44.76	−24 24 57.1	12.1	N		585
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C/2016 M1	2018 06 01.01604	19 15 44.60	−24 25 02.6	12.1	N		585
C/2016 M1	2018 06 01.01641	19 15 44.50	−24 25 03.4	12.1	N		585
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C/2016 M1	2018 06 01.01753	19 15 44.43	−24 25 06.1	12.1	N		585
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C/2016 M1	2018 06 01.01862	19 15 44.27	−24 25 08.9	12.1	N		585
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C/2016 M1	2018 06 04.50276	19 08 57.54	−26 50 55.4	12.1	o		T05
C/2016 M1	2018 06 04.51466	19 08 56.00	−26 51 26.0	11.9	o		T05
C/2016 M1	2018 06 04.51650	19 08 55.78	−26 51 30.8	11.9	o		T05
C/2016 M1	2018 06 04.99183	19 07 55.38	−27 12 03.6	12.0	N		585
C/2016 M1	2018 06 04.99219	19 07 55.33	−27 12 03.5	12.0	N		585
C/2016 M1	2018 06 04.99255	19 07 55.28	−27 12 04.6	12.0	N		585
C/2016 M1	2018 06 04.99291	19 07 55.24	−27 12 05.8	12.0	N		585
C/2016 M1	2018 06 04.99328	19 07 55.22	−27 12 06.9	12.0	N		585
C/2016 M1	2018 06 04.99364	19 07 55.14	−27 12 08.1	12.0	N		585
C/2016 M1	2018 06 04.99400	19 07 55.11	−27 12 08.7	12.0	N		585
C/2016 M1	2018 06 04.99436	19 07 55.07	−27 12 09.9	12.0	N		585
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C/2016 M1	2018 06 05.49589	19 06 50.34	−27 33 48.6	13.7	V		Q38
C/2016 M1	2018 06 05.49881	19 06 49.93	−27 33 56.5	13.6	V		Q38
C/2016 M1	2018 06 07.22828	19 02 54.83	−28 50 13.9	12.5	N	12	W88
C/2016 M1	2018 06 07.23156	19 02 54.35	−28 50 22.7	12.5	N	12	W88
C/2016 M1	2018 06 07.23501	19 02 53.89	−28 50 32.1	12.5	N	12	W88
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C/2016 M1	2018 06 07.67130	19 01 51.90	−29 10 08.5				Q23
C/2016 M1	2018 06 07.67954	19 01 50.73	−29 10 30.0	9.3	T		349
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C/2016 M1	2018 06 07.68535	19 01 49.88	−29 10 45.8				349
C/2016 M1	2018 06 08.16587	19 00 40.26	−29 32 20.0	12.0	N		J22

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C/2016 M1	2018 06 08.29151	19 00 21.93	−29 37 55.3	12.3	N		W96
C/2016 M1	2018 06 08.30632	19 00 19.72	−29 38 35.4	12.3	N		W96
C/2016 M1	2018 06 09.00418	18 58 35.98	−30 10 15.5	11.3	N		585
C/2016 M1	2018 06 09.00529	18 58 35.81	−30 10 18.4	11.4	N		585
C/2016 M1	2018 06 09.00584	18 58 35.71	−30 10 19.5	11.4	N		585
C/2016 M1	2018 06 09.00697	18 58 35.55	−30 10 23.1	11.4	N		585
C/2016 M1	2018 06 09.00752	18 58 35.46	−30 10 24.4	11.3	N		585
C/2016 M1	2018 06 09.00808	18 58 35.37	−30 10 26.0	11.4	N		585
C/2016 M1	2018 06 09.00863	18 58 35.30	−30 10 27.4	11.3	N		585
C/2016 M1	2018 06 09.00976	18 58 35.13	−30 10 30.2	11.4	N		585
C/2016 M1	2018 06 09.01031	18 58 35.04	−30 10 32.5	11.3	N		585
C/2016 M1	2018 06 09.01087	18 58 34.95	−30 10 33.9	11.4	N		585
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C/2016 M1	2018 06 09.01254	18 58 34.71	−30 10 38.1	11.3	N		585
C/2016 M1	2018 06 09.01309	18 58 34.61	−30 10 39.7	11.3	N		585
C/2016 M1	2018 06 09.01365	18 58 34.53	−30 10 41.6	11.3	N		585
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C/2016 M1	2018 06 10.16784	18 55 36.45	−31 03 20.8	12.4	N	9	G40
C/2016 M1	2018 06 10.17881	18 55 34.67	−31 03 50.9	12.3	N	9	G40
C/2016 M1	2018 06 10.47646	18 54 47.69	−31 17 30.8	11.7	o		T08
C/2016 M1	2018 06 10.47830	18 54 47.40	−31 17 35.8	11.7	o		T08
C/2016 M1	2018 06 10.48615	18 54 46.12	−31 17 57.5	11.7	o		T08
C/2016 M1	2018 06 10.50181	18 54 43.57	−31 18 40.7	11.7	o		T08
C/2016 M1	2018 06 12.47880	18 49 16.31	−32 50 09.2	12.0	c		T05
C/2016 M1	2018 06 12.48017	18 49 16.07	−32 50 12.9	12.0	c		T05
C/2016 M1	2018 06 12.48860	18 49 14.60	−32 50 36.6	12.1	c		T05
C/2016 M1	2018 06 12.50251	18 49 12.17	−32 51 15.4	12.1	c		T05
C/2016 M1	2018 06 12.57708	18 48 59.62	−32 54 43.5	9.1	T		372
C/2016 M1	2018 06 12.58090	18 48 58.95	−32 54 54.2				372
C/2016 M1	2018 06 12.68084	18 48 41.42	−32 59 34.1	8.2	T		Q11
C/2016 M1	2018 06 12.68940	18 48 39.94	−32 59 57.9				Q11
C/2016 M1	2018 06 12.69510	18 48 38.93	−33 00 14.3				Q11
C/2016 M1	2018 06 13.60795	18 45 58.80	−33 42 48.1			K	D81
C/2016 M1	2018 06 13.60948	18 45 58.52	−33 42 52.3			K	D81
C/2016 M1	2018 06 13.61100	18 45 58.26	−33 42 56.7			K	D81
C/2016 M1	2018 06 13.61405	18 45 57.69	−33 43 05.2	9.1	T	K	D81
C/2016 M1	2018 06 13.64229	18 45 52.58	−33 44 24.4				372
C/2016 M1	2018 06 13.65243	18 45 50.74	−33 44 52.7	8.9	T		372
C/2016 M1	2018 06 13.69910	18 45 42.25	−33 47 03.9	9.1	T		349
C/2016 M1	2018 06 13.70124	18 45 41.86	−33 47 09.8				349
C/2016 M1	2018 06 13.70337	18 45 41.46	−33 47 15.8				349
C/2016 M1	2018 06 14.33334	18 43 47.08	−34 16 37.4	11.7	R		Y00
C/2016 M1	2018 06 14.33515	18 43 46.73	−34 16 42.3	11.7	R		Y00
C/2016 M1	2018 06 14.33692	18 43 46.41	−34 16 47.3	11.7	R		Y00
C/2016 M1	2018 06 15.03959	18 41 36.88	−34 49 45.7	12.3	N	9	G40
C/2016 M1	2018 06 15.04106	18 41 36.61	−34 49 49.8	12.3	N	9	G40
C/2016 M1	2018 06 15.04929	18 41 35.05	−34 50 13.2	12.2	N	9	G40
C/2016 M1	2018 06 15.05231	18 41 34.47	−34 50 21.5	12.2	N	9	G40
C/2016 M1	2018 06 15.30694	18 40 46.19	−35 02 12.0	12.1	N		W96
C/2016 M1	2018 06 15.31490	18 40 44.68	−35 02 34.4	10.8	T		W96
C/2016 M1	2018 06 15.32341	18 40 42.99	−35 02 58.2	12.2	N		W96
C/2016 M1	2018 06 16.14109	18 38 06.83	−35 41 14.0	12.0	N		W96
C/2016 M1	2018 06 16.14725	18 38 05.57	−35 41 31.3	12.0	N		W96
C/2016 M1	2018 06 16.15374	18 38 04.34	−35 41 50.1	12.0	N		W96
C/2016 M1	2018 06 16.16022	18 38 03.08	−35 42 08.5	12.1	N		W96
C/2016 M1	2018 06 16.16670	18 38 01.68	−35 42 26.4	10.3	T		W96
C/2016 M1	2018 06 16.17318	18 38 00.48	−35 42 44.6	12.0	N		W96
C/2016 M1	2018 06 16.46083	18 37 04.15	−35 56 16.7	11.9	c		T05
C/2016 M1	2018 06 16.46449	18 37 03.42	−35 56 27.0	12.0	c		T05
C/2016 M1	2018 06 16.47401	18 37 01.52	−35 56 53.6	11.9	c		T05
C/2016 M1	2018 06 16.48812	18 36 58.70	−35 57 33.2	11.9	c		T05
C/2016 M1	2018 06 17.13488	18 34 50.69	−36 27 40.6	8.7	R	K	I47
C/2016 M1	2018 06 17.14469	18 34 48.71	−36 28 07.9	8.7	R	K	I47
C/2016 M1	2018 06 17.15494	18 34 46.58	−36 28 36.7	8.7	R	K	I47
C/2016 M1	2018 06 20.35000	18 23 33.43	−38 56 32.8	12.0	N	14	W88
C/2016 M1	2018 06 20.35089	18 23 33.26	−38 56 35.1	12.3	N	14	W88
C/2016 M1	2018 06 20.35175	18 23 33.04	−38 56 37.6	11.9	N	14	W88
C/2016 M1	2018 06 20.35343	18 23 32.67	−38 56 42.1	12.0	N	14	W88
C/2016 M1	2018 06 20.35431	18 23 32.47	−38 56 44.5	12.0	N	14	W88
C/2016 M1	2018 06 20.35520	18 23 32.28	−38 56 47.0	11.9	N	14	W88
C/2016 M1	2018 06 20.36047	18 23 31.10	−38 57 01.4	12.0	N	14	W88
C/2016 M1	2018 06 20.36135	18 23 30.91	−38 57 03.8	11.9	N	14	W88
C/2016 M1	2018 06 20.36222	18 23 30.72	−38 57 06.1	11.9	N	14	W88
C/2016 M1	2018 06 21.61528	18 18 50.24	−39 54 13.6	9.0	T		372
C/2016 M1	2018 06 21.64271	18 18 43.84	−39 55 28.2				349
C/2016 M1	2018 06 21.64340	18 18 43.74	−39 55 29.8				372
C/2016 M1	2018 06 21.64484	18 18 43.34	−39 55 34.1				349
C/2016 M1	2018 06 21.65171	18 18 41.76	−39 55 52.7				349
C/2016 M1	2018 06 21.65384	18 18 41.24	−39 55 58.2	8.9	T		349
C/2016 M1	2018 06 21.69549	18 18 31.69	−39 57 50.9				372
C/2016 M1	2018 06 21.99980	18 17 22.40	−40 11 27.7	12.8	R		Y00
C/2016 M1	2018 06 22.01098	18 17 19.84	−40 11 58.9	12.7	R		Y00
C/2016 M1	2018 06 22.02067	18 17 17.58	−40 12 25.1	12.7	R		Y00
C/2016 M1	2018 06 22.44132	18 15 39.80	−40 31 21.9	11.6	o		T08
C/2016 M1	2018 06 22.44966	18 15 37.82	−40 31 44.3	11.6	o		T08
C/2016 M1	2018 06 22.45610	18 15 36.30	−40 32 01.5	11.6	o		T08
C/2016 M1	2018 06 22.46626	18 15 33.90	−40 32 28.8	11.6	o		T08
C/2016 M1	2018 06 22.63405	18 14 54.66	−40 39 53.5	11.8			Q68
C/2016 M1	2018 06 22.68360	18 14 42.87	−40 42 06.0	11.8			Q68
C/2016 M1	2018 06 22.73523	18 14 30.68	−40 44 22.8	11.8			Q68
C/2016 M1	2018 06 24.15047	18 08 53.46	−41 46 49.0	10.4	T		W96
C/2016 M1	2018 06 24.16636	18 08 49.63	−41 47 30.4	12.1	N		W96
C/2016 M1	2018 06 24.18877	18 08 44.05	−41 48 29.3	12.1	N		W96
C/2016 M1	2018 06 25.06534	18 05 08.90	−42 26 28.5	12.4	N	9	G40
C/2016 M1	2018 06 25.06969	18 05 07.81	−42 26 39.6	12.4	N	9	G40
C/2016 M1	2018 06 25.07058	18 05 07.59	−42 26 41.8	12.4	N	9	G40
C/2016 M1	2018 06 30.45947	17 41 40.82	−46 04 24.4	12.0	N		Q68
C/2016 M1	2018 06 30.48826	17 41 32.88	−46 05 29.7	11.9	N		Q68
C/2016 M1	2018 07 01.53723	17 36 44.24	−46 44 22.6			K	D81
C/2016 M1	2018 07 01.54055	17 36 43.21	−46 44 29.6			K	D81
C/2016 M1	2018 07 01.54220	17 36 42.79	−46 44 32.5	11.0	T	K	D81
C/2016 M1	2018 07 04.42644	17 23 11.54	−48 24 13.6	12.0	N		Q68
C/2016 M1	2018 07 04.45656	17 23 02.86	−48 25 13.3	12.0	N		Q68

C/2016 M1	2018 07 05.22044	17 19 23.89	−48 49 51.5	12.2	N		W96
C/2016 M1	2018 07 05.24332	17 19 17.22	−48 50 34.1	10.6	T		W96
C/2016 M1	2018 07 05.25921	17 19 12.67	−48 51 04.5	12.1	N		W96
C/2016 M1	2018 07 05.51581	17 17 59.48	−48 59 10.6	12.0	N		Q68
C/2016 M1	2018 07 05.54470	17 17 51.10	−49 00 04.6	12.0	N		Q68
C/2016 M1	2018 07 06.38012	17 13 51.00	−49 25 47.7	12.0	R	¡	Q62
C/2016 M1	2018 07 06.39468	17 13 46.73	−49 26 14.3	11.9	R	¡	Q62
C/2016 M1	2018 07 09.57113	16 58 26.85	−50 55 31.7	12.1	N		Q68
C/2016 M1	2018 07 09.58703	16 58 22.18	−50 55 55.6	12.2	N		Q68
C/2016 M1	2018 07 11.06597	16 51 14.97	−51 32 57.4	12.3	R	13	W88
C/2016 M1	2018 07 11.06693	16 51 14.63	−51 32 58.8	12.5	R	13	W88
C/2016 M1	2018 07 12.38792	16 44 55.08	−52 03 38.5	12.2	N		Q68
C/2016 M1	2018 07 12.41551	16 44 47.09	−52 04 15.8	12.2	N		Q68
C/2016 M1	2018 07 12.56175	16 44 04.72	−52 07 31.2	12.8	G		Q38
C/2016 M1	2018 07 12.56663	16 44 03.39	−52 07 37.3	12.6	G		Q38
C/2016 M1	2018 07 12.57006	16 44 02.33	−52 07 42.2	12.9	G		Q38
C/2016 M1	2018 07 12.57493	16 44 00.94	−52 07 48.1	12.8	G		Q38
C/2016 M1	2018 07 15.46773	16 30 23.63	−53 06 45.8	12.2	N		Q68
C/2016 M1	2018 07 15.49087	16 30 17.11	−53 07 11.2	12.2	N		Q68
C/2016 M1	2018 07 15.56958	16 29 54.95	−53 08 38.7	11.1	N		Q68
C/2016 M1	2018 07 16.39257	16 26 07.71	−53 23 31.4	12.2	N		Q68
C/2016 M1	2018 07 16.41723	16 26 00.82	−53 23 57.7	12.0	N		Q68
C/2016 M1	2018 07 18.40419	16 17 01.55	−53 56 44.2	12.0	N		Q68
C/2016 M1	2018 07 18.41916	16 16 57.45	−53 56 59.1	11.5	N		Q68
C/2016 M1	2018 07 19.48952	16 12 13.83	−54 12 55.0	11.8	N		Q68
C/2016 M1	2018 07 19.50225	16 12 10.50	−54 13 06.1	11.1	N		Q68
C/2016 M1	2018 07 26.05413	15 45 24.85	−55 28 33.3	12.5	N		W96
C/2016 M1	2018 07 26.08690	15 45 17.31	−55 28 50.6	11.2	T		W96
C/2016 M1	2018 07 26.11452	15 45 10.99	−55 29 04.9	12.5	N		W96
C/2016 M1	2018 07 26.53867	15 43 35.58	−55 32 48.9	13.0	N	25	Q62
C/2016 M1	2018 07 26.54124	15 43 35.05	−55 32 50.4	13.0	N	25	Q62
C/2016 M1	2018 07 30.08631	15 31 01.53	−56 00 05.8	12.6	N	14	W88
C/2016 M1	2018 07 30.08716	15 31 01.33	−56 00 05.8	12.8	N	14	W88
C/2016 M1	2018 07 30.08802	15 31 01.18	−56 00 06.2	12.9	N	14	W88
C/2016 M1	2018 07 30.08954	15 31 00.88	−56 00 06.7	12.8	N	14	W88
C/2016 M1	2018 07 30.09039	15 31 00.71	−56 00 07.2	12.8	N	14	W88
C/2016 M1	2018 07 30.09125	15 31 00.51	−56 00 07.4	12.7	N	14	W88
C/2016 M1	2018 08 03.58842	15 16 57.50	−56 26 14.6	14	R		C51
Geocentric position (km)		− 639.5477	− 3505.0225	− 5865.4374			
C/2016 M1	2018 08 03.71920	15 16 34.89	−56 26 54.7				C51
Geocentric position (km)		− 605.8611	− 3455.2330	− 5898.4750			
C/2016 M1	2018 08 03.85010	15 16 12.29	−56 27 33.3				C51
Geocentric position (km)		− 604.8312	− 3470.2877	− 5889.7263			
C/2016 M1	2018 08 03.91555	15 16 01.01	−56 27 50.9				C51
Geocentric position (km)		− 604.2874	− 3477.8046	− 5885.3388			
C/2016 M1	2018 08 03.98100	15 15 49.81	−56 28 11.6				C51
Geocentric position (km)		− 603.7382	− 3485.3449	− 5880.9300			
C/2016 M1	2018 08 04.04645	15 15 38.64	−56 28 30.7				C51
Geocentric position (km)		− 603.1595	− 3492.8566	− 5876.5237			
C/2016 M1	2018 08 04.30813	15 14 54.13	−56 29 46.4				C51
Geocentric position (km)		− 568.7750	− 3457.7080	− 5900.6918			
C/2016 M1	2018 08 04.43904	15 14 32.06	−56 30 24.0				C51
Geocentric position (km)		− 567.6157	− 3472.7857	− 5891.9315			
C/2016 M1	2018 08 08.05006	15 05 03.19	−56 46 06.7	12.6	N		W96
C/2016 M1	2018 08 08.07809	15 04 59.04	−56 46 12.5	12.5	N		W96
C/2016 M1	2018 08 08.10970	15 04 54.41	−56 46 19.3	11.2	T		W96
C/2016 M1	2018 08 08.12220	15 04 52.48	−56 46 22.3	12.5	N		W96
C/2016 M1	2018 08 09.53145	15 01 31.94	−56 51 47.5	13.1	G		Q38
C/2016 M1	2018 08 09.53488	15 01 31.48	−56 51 48.1	13.1	G		Q38
C/2016 M1	2018 08 09.53887	15 01 30.93	−56 51 49.2	13.1	G		Q38
C/2016 M1	2018 08 11.42407	14 57 20.12	−56 58 42.4	11.6	N		E89
C/2016 M1	2018 08 11.42800	14 57 19.61	−56 58 42.7	12.1	N		E89
C/2016 M1	2018 08 11.42970	14 57 19.33	−56 58 44.7	11.6	N		E89
C/2016 M1	2018 08 11.43065	14 57 19.26	−56 58 43.2	11.6	N		E89
C/2016 M1	2018 08 11.43341	14 57 18.86	−56 58 44.4	11.9	N		E89
C/2016 M1	2018 08 12.36795	14 55 22.08	−57 02 03.5	12.6	N		Q68
C/2016 M1	2018 08 12.47132	14 55 09.16	−57 02 23.5	12.6	N		Q68
C/2016 M1	2018 08 13.35750	14 53 23.19	−57 05 28.3	12.7	N		Q68
C/2016 M1	2018 08 13.37197	14 53 21.44	−57 05 31.1	12.7	N		Q68
C/2016 M1	2018 08 14.37318	14 51 26.31	−57 08 57.1	12.6	N		Q68
C/2016 M1	2018 08 14.38769	14 51 24.65	−57 08 59.9	12.6	N		Q68
C/2016 M1	2018 08 15.02381	14 50 14.14	−57 11 09.3	12.6	N	14	W88
C/2016 M1	2018 08 15.02469	14 50 14.05	−57 11 09.4	12.6	N	14	W88
C/2016 M1	2018 08 15.02554	14 50 13.96	−57 11 09.6	12.6	N	14	W88
C/2016 M1	2018 08 16.35050	14 47 53.84	−57 15 39.3	12.6	N		Q68
C/2016 M1	2018 08 16.37208	14 47 51.56	−57 15 43.4	12.7	N		Q68
C/2016 M1	2018 08 17.38714	14 46 09.89	−57 19 10.6	12.6	N		Q68
C/2016 M1	2018 08 17.40276	14 46 08.34	−57 19 12.9	12.6	N		Q68
C/2016 M1	2018 08 19.42047	14 43 00.60	−57 26 09.3	12.7	N		Q68
C/2016 M1	2018 08 19.46162	14 42 56.96	−57 26 17.3	12.6	N		Q68
C/2016 M1	2018 08 26.35650	14 34 26.47	−57 51 58.0	12.0	N		E89
C/2016 M1	2018 08 26.36150	14 34 26.14	−57 51 58.9	12.2	N		E89
C/2016 M1	2018 08 26.37008	14 34 25.59	−57 52 00.9	12.2	N		E89
C/2016 M1	2018 08 27.28853	14 33 31.58	−57 55 47.6	12.0	N		E89
C/2016 M1	2018 08 27.29735	14 33 31.04	−57 55 49.7	12.1	N		E89
C/2016 M1	2018 08 27.30683	14 33 30.49	−57 55 51.9	12.1	N		E89
C/2016 M1	2018 08 27.31826	14 33 29.82	−57 55 54.6	12.0	N		E89
C/2016 M1	2018 08 28.07250	14 32 47.48	−57 59 03.0	13.0	N	3	W88
C/2016 M1	2018 08 28.07903	14 32 47.16	−57 59 04.8	13.0	N	3	W88
C/2016 M1	2018 08 28.08426	14 32 46.87	−57 59 05.4	13.0	N	3	W88
C/2016 M1	2018 09 07.47779	14 26 10.40	−58 50 24.0	13.2	G		Q38
C/2016 M1	2018 09 07.48024	14 26 10.35	−58 50 24.7	13.2	G		Q38
C/2016 M1	2018 09 07.48269	14 26 10.28	−58 50 25.5	13.2	G		Q38

C/2016 N4 (MASTER)

C/2016 N4	2018 05 01.88632	07 07 24.82	+85 25 48.1	17.5	N	I72
C/2016 N4	2018 05 01.90454	07 07 39.31	+85 25 30.8	17.4	N	I72
C/2016 N4	2018 05 01.92289	07 07 53.65	+85 25 13.4	17.4	N	I72
C/2016 N4	2018 05 10.87414	08 26 40.33	+82 45 44.5	17.3	N	585
C/2016 N4	2018 05 10.87485	08 26 40.77	+82 45 44.5	16.8	N	585
C/2016 N4	2018 05 10.87627	08 26 40.72	+82 45 41.7	17.0	N	585
C/2016 N4	2018 05 10.87698	08 26 41.19	+82 45 42.2	17.0	N	585
C/2016 N4	2018 05 10.87769	08 26 41.79	+82 45 40.6	16.9	N	585
C/2016 N4	2018 05 10.87839	08 26 41.84	+82 45 40.1	16.9	N	585
C/2016 N4	2018 05 10.87910	08 26 41.92	+82 45 39.8	17.1	N	585
C/2016 N4	2018 05 10.87981	08 26 42.16	+82 45 38.8	17.2	N	585

C/2016 N4	2018 05 10.88193	08 26 43.10	+82 45 35.5	16.3	N		585
C/2016 N4	2018 05 10.88264	08 26 43.30	+82 45 35.1	16.1	T		585
C/2016 N4	2018 05 10.88335	08 26 43.62	+82 45 33.7	16.9	N		585
C/2016 N4	2018 05 10.88405	08 26 43.96	+82 45 33.3	17.0	N		585
C/2016 N4	2018 05 10.88476	08 26 44.18	+82 45 32.2	17.0	N		585
C/2016 N4	2018 05 30.84776	09 38 29.26	+76 13 10.1	17.2	N	K	585
C/2016 N4	2018 05 30.84815	09 38 29.32	+76 13 09.7	17.1	N	K	585
C/2016 N4	2018 05 30.84893	09 38 29.45	+76 13 09.0	17.3	N	K	585
C/2016 N4	2018 05 30.84932	09 38 29.56	+76 13 08.6	17.3	N	K	585
C/2016 N4	2018 05 30.85007	09 38 29.61	+76 13 07.3	17.1	N	K	585
C/2016 N4	2018 05 30.85079	09 38 29.72	+76 13 07.2	17.2	N	K	585
C/2016 N4	2018 05 30.85151	09 38 29.66	+76 13 05.6	17.0	N	K	585
C/2016 N4	2018 05 30.85223	09 38 29.78	+76 13 04.4	17.0	N	K	585
C/2016 N4	2018 05 30.85368	09 38 29.97	+76 13 02.9	16.8	N	K	585
C/2016 N4	2018 05 30.85877	09 38 30.68	+76 12 56.4	16.7	N	K	585
C/2016 N4	2018 05 30.86386	09 38 31.39	+76 12 50.9	16.8	N	K	585
C/2016 N4	2018 06 01.68901	09 42 44.43	+75 37 04.9			K	D81
C/2016 N4	2018 06 01.69282	09 42 44.94	+75 36 59.6			K	D81
C/2016 N4	2018 06 01.69664	09 42 45.79	+75 36 54.8			K	D81
C/2016 N4	2018 06 01.70045	09 42 45.99	+75 36 49.9	16.7	T	K	D81
C/2016 N4	2018 06 01.92404	09 43 16.07	+75 32 30.2	17.2	N	K	L27
C/2016 N4	2018 06 01.93272	09 43 17.14	+75 32 19.7	17.3	N	K	L27
C/2016 N4	2018 06 01.94213	09 43 18.60	+75 32 08.5	17.1	N	K	L27
C/2016 N4	2018 06 04.87576	09 49 39.36	+74 35 01.2	17.3	N	17	G40
C/2016 N4	2018 06 04.87866	09 49 39.65	+74 34 57.8	17.3	N	17	G40
C/2016 N4	2018 06 05.92417	09 51 49.35	+74 14 41.6	17.2	N	9	G40
C/2016 N4	2018 06 05.92703	09 51 49.77	+74 14 38.3			9	G40
C/2016 N4	2018 06 09.31764	09 58 31.66	+73 09 20.8	17.1	o		T08
C/2016 N4	2018 06 09.32560	09 58 32.58	+73 09 11.9	17.5	o		T08
C/2016 N4	2018 06 09.33400	09 58 33.48	+73 09 01.8	17.5	o		T08
C/2016 N4	2018 06 09.34234	09 58 34.32	+73 08 52.5	17.2	o		T08
C/2016 N4	2018 06 11.31283	10 02 16.68	+72 31 15.4	18.1	c		T05
C/2016 N4	2018 06 11.32272	10 02 17.54	+72 31 03.1	17.8	c		T05
C/2016 N4	2018 06 11.33286	10 02 19.06	+72 30 52.1	18.0	c		T05
C/2016 N4	2018 06 11.34302	10 02 19.76	+72 30 39.9	17.5	c		T05
C/2016 N4	2018 06 12.30824	10 04 05.922	+72 12 20.11	18.3	w		F51
C/2016 N4	2018 06 12.32098	10 04 07.275	+72 12 05.51	18.3	w		F51
C/2016 N4	2018 06 13.31815	10 05 55.04	+71 53 13.4	17.1	o		T08
C/2016 N4	2018 06 13.32655	10 05 55.86	+71 53 03.6	17.0	o		T08
C/2016 N4	2018 06 13.33642	10 05 56.76	+71 52 51.7	17.7	o		T08
C/2016 N4	2018 06 13.97566	10 07 05.23	+71 40 46.7	17.1	N	K	C23
C/2016 N4	2018 06 13.97999	10 07 05.68	+71 40 42.2	16.9	N	K	C23
C/2016 N4	2018 06 15.11765	10 09 05.28	+71 19 18.9				I17
C/2016 N4	2018 06 15.11911	10 09 05.45	+71 19 17.4				I17
C/2016 N4	2018 06 15.12057	10 09 05.52	+71 19 15.8				I17
C/2016 N4	2018 06 15.12203	10 09 05.74	+71 19 14.4				I17
C/2016 N4	2018 06 15.30758	10 09 24.95	+71 15 45.2	18.0	c		T05
C/2016 N4	2018 06 15.31710	10 09 25.86	+71 15 34.7	17.9	c		T05
C/2016 N4	2018 06 15.32670	10 09 27.04	+71 15 23.9	18.0	c		T05
C/2016 N4	2018 06 15.33628	10 09 28.00	+71 15 13.1	18.0	c		T05
C/2016 N4	2018 06 18.93630	10 15 32.80	+70 08 10.9	17.0	R		B96
C/2016 N4	2018 06 18.93803	10 15 33.14	+70 08 08.4	17.4	R		B96
C/2016 N4	2018 06 18.93966	10 15 33.21	+70 08 05.9	17.2	R		B96
C/2016 N4	2018 06 19.32357	10 16 10.92	+70 01 02.4	17.1	o		T05
C/2016 N4	2018 06 19.33293	10 16 11.82	+70 00 51.9	17.2	o		T05
C/2016 N4	2018 06 19.34184	10 16 12.66	+70 00 41.5	17.1	o		T05
C/2016 N4	2018 06 20.92235	10 18 46.75	+69 31 37.7	17.1	N		C23
C/2016 N4	2018 06 20.92813	10 18 47.37	+69 31 31.3	17.1	N		C23
C/2016 N4	2018 06 20.93390	10 18 47.83	+69 31 24.5	16.9	N		C23
C/2016 N4	2018 06 20.97294	10 18 51.67	+69 30 42.1	17.4	R		B96
C/2016 N4	2018 06 20.97620	10 18 52.12	+69 30 38.3	17.5	R		B96
C/2016 N4	2018 06 20.97948	10 18 52.35	+69 30 34.8	17.4	R		B96
C/2016 N4	2018 06 21.31066	10 19 23.96	+69 24 31.5	17.2	o		T08
C/2016 N4	2018 06 21.31910	10 19 24.82	+69 24 22.5	17.7	o		T08
C/2016 N4	2018 06 21.32704	10 19 25.61	+69 24 14.3	17.1	o		T08
C/2016 N4	2018 06 21.33266	10 19 26.06	+69 24 07.9	17.4	o		T08
C/2016 N4	2018 06 21.94964	10 20 25.19	+69 12 51.2	17.4	R		B96
C/2016 N4	2018 06 21.95291	10 20 25.52	+69 12 47.3	17.6	R		B96
C/2016 N4	2018 06 21.95455	10 20 25.55	+69 12 45.4	17.3	R		B96
C/2016 N4	2018 06 21.95781	10 20 26.05	+69 12 42.2	17.3	R		B96
C/2016 N4	2018 06 23.31367	10 22 33.97	+68 48 03.2	17.2	o		T05
C/2016 N4	2018 06 23.32305	10 22 34.78	+68 47 53.0	17.1	o		T05
C/2016 N4	2018 06 23.33240	10 22 35.67	+68 47 43.0	17.7	o		T05
C/2016 N4	2018 06 23.34091	10 22 36.39	+68 47 34.0	17.7	o		T05
C/2016 N4	2018 06 29.91534	10 32 31.35	+66 50 12.6	17.0	N	K	C23
C/2016 N4	2018 06 29.91823	10 32 31.72	+66 50 10.1	17.3	N	K	C23
C/2016 N4	2018 06 29.92256	10 32 31.98	+66 50 05.6	17.1	N	K	C23
C/2016 N4	2018 07 01.97057	10 35 29.47	+66 14 18.8	17.7	R		B96
C/2016 N4	2018 07 01.97384	10 35 29.96	+66 14 13.8	17.8	R		B96
C/2016 N4	2018 07 01.97874	10 35 30.29	+66 14 09.6	17.5	R		B96
C/2016 N4	2018 07 02.95764	10 36 54.01	+65 57 11.2	17.5	R		B96
C/2016 N4	2018 07 02.96091	10 36 54.31	+65 57 07.1	17.5	R		B96
C/2016 N4	2018 07 02.96581	10 36 54.74	+65 57 02.3	17.5	R		B96
C/2016 N4	2018 07 03.30342	10 37 23.27	+65 51 14.1	17.2	o		T08
C/2016 N4	2018 07 03.31192	10 37 23.91	+65 51 05.4	17.0	o		T08
C/2016 N4	2018 07 03.31981	10 37 24.65	+65 50 56.6	17.1	o		T08
C/2016 N4	2018 07 05.90253	10 41 01.51	+65 06 39.5	17.3	N	K	C23
C/2016 N4	2018 07 05.90542	10 41 01.90	+65 06 37.4	17.0	N	K	C23
C/2016 N4	2018 07 05.91119	10 41 02.47	+65 06 31.3	17.3	N	K	C23
C/2016 N4	2018 07 05.95769	10 41 06.30	+65 05 43.1	17.6	R		B96
C/2016 N4	2018 07 05.96095	10 41 06.69	+65 05 39.9	17.5	R		B96
C/2016 N4	2018 07 05.96586	10 41 06.93	+65 05 34.9	17.4	R		B96
C/2016 N4	2018 07 06.96277	10 42 29.49	+64 48 40.1	17.5	R		B96
C/2016 N4	2018 07 06.96603	10 42 29.67	+64 48 37.1	17.7	R		B96
C/2016 N4	2018 07 06.97094	10 42 30.14	+64 48 30.8	17.5	R		B96
C/2016 N4	2018 07 07.95766	10 43 51.37	+64 31 52.3	17.4	R		B96
C/2016 N4	2018 07 07.96094	10 43 51.46	+64 31 49.8	17.2	R		B96
C/2016 N4	2018 07 07.96583	10 43 51.89	+64 31 44.2	18.1	R		B96
C/2016 N4	2018 07 08.95491	10 45 12.50	+64 15 07.7	17.4	R		B96
C/2016 N4	2018 07 08.95817	10 45 12.76	+64 15 04.8	17.4	R		B96
C/2016 N4	2018 07 08.96308	10 45 13.14	+64 15 00.1	17.5	R		B96
C/2016 N4	2018 07 13.94753	10 51 50.91	+62 52 46.9	17.5	R		B96
C/2016 N4	2018 07 13.95244	10 51 51.45	+62 52 41.8	17.3	R		B96
C/2016 N4	2018 07 13.95571	10 51 51.61	+62 52 38.6	17.7	R		B96
C/2016 N4	2018 07 14.48220	10 52 32.86	+62 44 04.8			K	D81
C/2016 N4	2018 07 14.48600	10 52 33.15	+62 44 02.5			K	D81

C/2016 N4	2018 07 14.48981	10 52 33.53	+62 43 59.7			K D81
C/2016 N4	2018 07 14.49362	10 52 33.95	+62 43 57.9	17.2	T	K D81
C/2016 N4	2018 07 14.49932	10 52 34.12	+62 43 50.0	17.1	T	K Q11
C/2016 N4	2018 07 14.50644	10 52 34.69	+62 43 43.2			K Q11
C/2016 N4	2018 07 14.51001	10 52 34.93	+62 43 39.5			K Q11
C/2016 N4	2018 07 14.95160	10 53 09.50	+62 36 30.4	17.3	R	B96
C/2016 N4	2018 07 14.95486	10 53 09.76	+62 36 27.1	17.7	R	B96
C/2016 N4	2018 07 14.95977	10 53 10.11	+62 36 22.5	17.5	R	B96
C/2016 N4	2018 07 15.89987	10 54 23.14	+62 21 13.0	17.5	N	J22
C/2016 N4	2018 07 15.90625	10 54 23.37	+62 21 08.9	17.5	N	J22
C/2016 N4	2018 07 16.88450	10 55 39.11	+62 05 29.5	17.8	N	I72
C/2016 N4	2018 07 16.90031	10 55 40.35	+62 05 14.7	17.6	N	I72
C/2016 N4	2018 07 16.91675	10 55 41.65	+62 04 58.9	17.8	N	I72
C/2016 N4	2018 07 17.26328	10 56 08.33	+61 59 26.4	17.6	c	T05
C/2016 N4	2018 07 17.27265	10 56 08.99	+61 59 17.2	18.1	c	T05
C/2016 N4	2018 07 17.28260	10 56 09.77	+61 59 08.9	18.1	c	T05
C/2016 N4	2018 07 17.29263	10 56 10.55	+61 58 59.5	17.6	c	T05
C/2016 N4	2018 07 17.89338	10 56 56.59	+61 49 26.6	17.8	N	I72
C/2016 N4	2018 07 17.91041	10 56 57.90	+61 49 10.4	17.5	N	I72
C/2016 N4	2018 07 17.92861	10 56 59.35	+61 48 52.5	17.8	N	I72
C/2016 N4	2018 08 01.87738	11 15 15.26	+58 03 19.3	17.3	N	K C23
C/2016 N4	2018 08 01.88027	11 15 15.63	+58 03 16.4	17.2	N	K C23
C/2016 N4	2018 08 01.88315	11 15 15.75	+58 03 13.7	17.1	N	K C23
C/2016 N4	2018 08 01.88604	11 15 15.98	+58 03 11.3	17.2	N	K C23
C/2016 N4	2018 08 02.96320	11 16 31.69	+57 47 49.6	17.4	N	K K02
C/2016 N4	2018 08 02.97089	11 16 32.20	+57 47 43.1	17.4	N	K K02
C/2016 N4	2018 08 04.96729	11 18 51.46	+57 19 35.5	17.3	N	K K02
C/2016 N4	2018 08 04.97347	11 18 51.88	+57 19 29.8	17.1	N	K K02
C/2016 N4	2018 08 05.96795	11 20 00.63	+57 05 40.6	17.8	N	I72
C/2016 N4	2018 08 05.98331	11 20 01.66	+57 05 27.2	17.7	N	I72
C/2016 N4	2018 08 05.99834	11 20 02.46	+57 05 15.1	17.7	N	I72
C/2016 N4	2018 08 07.96306	11 22 17.81	+56 38 11.5	17.6	N	I72
C/2016 N4	2018 08 07.97802	11 22 18.88	+56 37 59.1	17.6	N	I72
C/2016 N4	2018 08 07.99286	11 22 19.84	+56 37 48.7	17.5	N	I72
C/2016 N4	2018 08 14.86440	11 30 02.91	+55 06 30.6	17.4	N	I72
C/2016 N4	2018 08 14.88390	11 30 04.14	+55 06 15.6	17.5	N	I72
C/2016 N4	2018 08 14.90307	11 30 05.48	+55 06 00.1	17.4	N	I72
C/2016 N4	2018 08 16.98243	11 32 22.90	+54 39 23.8	17.1	N	K K02
C/2016 N4	2018 08 16.98753	11 32 23.11	+54 39 19.7	17.3	N	K K02
C/2016 N4	2018 08 16.99349	11 32 23.53	+54 39 14.0	17.7	N	K K02
C/2016 N4	2018 08 17.84786	11 33 19.54	+54 28 28.7	17.1	N	K C23
C/2016 N4	2018 08 17.85086	11 33 19.89	+54 28 26.2	17.3	N	K C23
C/2016 N4	2018 08 17.85385	11 33 19.85	+54 28 24.4	17.0	N	K C23
C/2016 N4	2018 08 17.85685	11 33 20.15	+54 28 21.3	17.3	N	K C23

C/2016 N6 (PANSTARRS)

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C/2016 N6	2018 04 21.86435	07 51 41.91	+63 32 16.4	14.1	N	585
C/2016 N6	2018 04 21.86506	07 51 41.90	+63 32 15.5	14.1	N	585
C/2016 N6	2018 04 21.86578	07 51 41.93	+63 32 14.4	14.1	N	585
C/2016 N6	2018 04 21.86648	07 51 41.89	+63 32 11.8	14.1	N	585
C/2016 N6	2018 04 21.86719	07 51 41.82	+63 32 11.8	14.1	N	585
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C/2016 N6	2018 04 21.86860	07 51 41.87	+63 32 08.3	14.1	N	585
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C/2016 N6	2018 04 21.87073	07 51 41.82	+63 32 05.5	14.0	N	585
C/2016 N6	2018 04 21.87144	07 51 41.63	+63 32 03.8	14.1	N	585
C/2016 N6	2018 04 21.87217	07 51 41.73	+63 32 02.1	14.1	N	585
C/2016 N6	2018 04 21.87288	07 51 41.62	+63 32 01.1	14.1	N	585
C/2016 N6	2018 04 21.87359	07 51 41.58	+63 31 59.0	14.1	N	585
C/2016 N6	2018 05 01.87748	07 48 00.14	+58 38 30.1	14.2	N	I72
C/2016 N6	2018 05 01.89561	07 48 00.01	+58 37 59.2	14.2	N	I72
C/2016 N6	2018 05 01.91384	07 47 59.87	+58 37 28.4	14.2	N	I72
C/2016 N6	2018 05 05.53236	07 47 52.73	+56 56 44.6	12.8	T	349
C/2016 N6	2018 05 05.53925	07 47 52.75	+56 56 33.3			349
C/2016 N6	2018 05 06.88140	07 47 57.48	+56 19 58.3	15.6	N	L30
C/2016 N6	2018 05 06.89603	07 47 57.58	+56 19 33.9	15.5	N	L30
C/2016 N6	2018 05 06.91510	07 47 57.68	+56 19 03.0	15.7	N	L30
C/2016 N6	2018 05 06.93339	07 47 57.74	+56 18 33.1	15.7	N	L30
C/2016 N6	2018 05 07.92046	07 48 03.49	+55 51 56.7	15.1	N	19G40
C/2016 N6	2018 05 07.92766	07 48 03.52	+55 51 45.0	15.1	N	19G40
C/2016 N6	2018 05 07.93485	07 48 03.56	+55 51 33.0	15.2	N	19G40
C/2016 N6	2018 05 10.81733	07 48 30.50	+54 35 04.7	14.2	N	585
C/2016 N6	2018 05 10.81790	07 48 30.51	+54 35 03.7	14.3	N	585
C/2016 N6	2018 05 10.81811	07 48 30.51	+54 35 03.6	14.2	N	585
C/2016 N6	2018 05 10.81912	07 48 30.53	+54 35 01.9	14.2	N	585
C/2016 N6	2018 05 10.81982	07 48 30.54	+54 35 00.8	14.3	N	585
C/2016 N6	2018 05 10.82124	07 48 30.56	+54 34 58.4	14.3	N	585
C/2016 N6	2018 05 10.82195	07 48 30.56	+54 34 57.4	14.2	N	585
C/2016 N6	2018 05 10.82408	07 48 30.58	+54 34 54.3	14.3	N	585
C/2016 N6	2018 05 10.82480	07 48 30.58	+54 34 52.9	14.2	N	585
C/2016 N6	2018 05 10.82551	07 48 30.65	+54 34 51.7	14.2	N	585
C/2016 N6	2018 05 10.82621	07 48 30.61	+54 34 50.6	14.2	N	585
C/2016 N6	2018 05 10.82692	07 48 30.62	+54 34 49.7	14.2	N	585
C/2016 N6	2018 05 20.51724	07 51 27.89	+50 31 31.7	13.2	T	D95
C/2016 N6	2018 05 20.52163	07 51 27.98	+50 31 24.8			D95
C/2016 N6	2018 05 20.52748	07 51 28.09	+50 31 16.4			D95
C/2016 N6	2018 05 20.90478	07 51 37.15	+50 22 12.7	14.9	N	K A71
C/2016 N6	2018 05 20.90871	07 51 37.25	+50 22 07.0	14.9	N	K A71
C/2016 N6	2018 05 20.91346	07 51 37.38	+50 22 00.5	14.8	N	K A71
C/2016 N6	2018 05 20.91932	07 51 37.51	+50 21 51.9	15.0	N	K A71
C/2016 N6	2018 05 26.50723	07 54 06.10	+48 11 13.7	12.9	T	349
C/2016 N6	2018 05 26.51115	07 54 06.25	+48 11 08.3			349
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C/2016 N6	2018 05 28.88348	07 55 16.38	+47 17 32.2	14.3	N	585
C/2016 N6	2018 05 28.88419	07 55 16.36	+47 17 30.8	14.2	N	585
C/2016 N6	2018 05 28.88490	07 55 16.46	+47 17 30.0	14.2	N	585
C/2016 N6	2018 05 28.88561	07 55 16.49	+47 17 29.2	14.3	N	585
C/2016 N6	2018 05 28.88632	07 55 16.46	+47 17 28.4	14.2	N	585
C/2016 N6	2018 05 28.88703	07 55 16.49	+47 17 27.5	14.2	N	585
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C/2016 N6	2018 05 28.88915	07 55 16.52	+47 17 24.2	14.3	N	585
C/2016 N6	2018 05 28.88986	07 55 16.58	+47 17 23.4	14.3	N	585
C/2016 N6	2018 05 28.89057	07 55 16.59	+47 17 22.6	14.2	N	585
C/2016 N6	2018 05 28.89128	07 55 16.63	+47 17 20.9	14.3	N	585

C/2016 N6	2018 05 28.89199	07 55 16.62	+47 17 20.3	14.2	N	585
C/2016 N6	2018 05 28.89269	07 55 16.71	+47 17 19.7	14.2	N	585
C/2016 N6	2018 05 28.90098	07 55 16.96	+47 17 08.7	14.2	N	585
C/2016 N6	2018 05 28.90169	07 55 16.94	+47 17 07.6	14.3	N	585
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C/2016 N6	2018 05 28.90311	07 55 17.00	+47 17 05.8	14.3	N	585
C/2016 N6	2018 05 29.87903	07 55 46.76	+46 55 23.4	14.7	N	9 G40
C/2016 N6	2018 05 29.88221	07 55 46.86	+46 55 18.8	14.7	N	9 G40
C/2016 N6	2018 05 29.88571	07 55 46.98	+46 55 14.1	14.7	N	9 G40
C/2016 N6	2018 05 29.88920	07 55 47.14	+46 55 09.9			9 G40
C/2016 N6	2018 05 30.87270	07 56 17.89	+46 33 26.1	15.0	N	K A71
C/2016 N6	2018 05 30.87402	07 56 17.94	+46 33 24.3	15.0	N	K A71
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C/2016 N6	2018 05 30.87666	07 56 17.99	+46 33 20.8	15.0	N	K A71
C/2016 N6	2018 05 30.87798	07 56 18.02	+46 33 19.4	15.0	N	K A71
C/2016 N6	2018 05 30.87930	07 56 18.09	+46 33 17.2	14.9	N	K A71
C/2016 N6	2018 05 30.90337	07 56 18.74	+46 32 47.0	14.1	N	J22
C/2016 N6	2018 05 30.90542	07 56 18.84	+46 32 43.8	14.1	N	J22
C/2016 N6	2018 05 30.90745	07 56 18.92	+46 32 41.6	14.1	N	J22
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C/2016 N6	2018 06 01.25538	07 57 01.89	+46 03 14.1	14.2	o	T08
C/2016 N6	2018 06 01.25584	07 57 01.94	+46 03 13.4	14.2	o	T08
C/2016 N6	2018 06 01.25630	07 57 01.95	+46 03 12.6	14.7	o	T08
C/2016 N6	2018 06 01.26574	07 57 02.26	+46 03 00.4	14.1	o	T08
C/2016 N6	2018 06 01.26956	07 57 02.37	+46 02 55.2	14.2	o	T08
C/2016 N6	2018 06 01.27565	07 57 02.57	+46 02 47.2	14.2	o	T08
C/2016 N6	2018 06 01.27896	07 57 02.70	+46 02 42.9	14.3	o	T08
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C/2016 N6	2018 06 01.51327	07 57 10.30	+45 57 36.5			K D81
C/2016 N6	2018 06 01.51632	07 57 10.35	+45 57 32.7	13.1	T	K D81
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C/2016 N6	2018 06 02.59288	07 57 45.53	+45 34 17.9	13.5	N	G26
C/2016 N6	2018 06 02.96319	07 57 57.90	+45 26 19.7	14.5	N	K02
C/2016 N6	2018 06 02.96997	07 57 58.10	+45 26 10.7	14.4	N	K02
C/2016 N6	2018 06 02.97760	07 57 58.39	+45 26 00.9	14.5	N	K02
C/2016 N6	2018 06 04.53900	07 58 50.65	+44 52 47.9	14.2	N	G26
C/2016 N6	2018 06 04.59296	07 58 52.49	+44 51 39.2	14.1	N	G26
C/2016 N6	2018 06 04.86945	07 59 01.94	+44 45 47.2	14.2	N	585
C/2016 N6	2018 06 04.87017	07 59 01.97	+44 45 46.4	14.2	N	585
C/2016 N6	2018 06 04.87089	07 59 01.98	+44 45 45.3	14.3	N	585
C/2016 N6	2018 06 04.87161	07 59 02.01	+44 45 44.4	14.2	N	585
C/2016 N6	2018 06 04.87234	07 59 02.04	+44 45 43.6	14.2	N	585
C/2016 N6	2018 06 04.87306	07 59 02.07	+44 45 42.8	14.2	N	585
C/2016 N6	2018 06 04.87378	07 59 02.07	+44 45 41.8	14.2	N	585
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C/2016 N6	2018 06 04.87522	07 59 02.14	+44 45 40.2	14.2	N	585
C/2016 N6	2018 06 04.87594	07 59 02.18	+44 45 39.1	14.2	N	585
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C/2016 N6	2018 06 04.89596	07 59 02.82	+44 45 13.9	14.5	N	C23
C/2016 N6	2018 06 04.89896	07 59 02.94	+44 45 10.0	14.6	N	C23
C/2016 N6	2018 06 04.92176	07 59 03.70	+44 44 40.6	15.0	N	K A71
C/2016 N6	2018 06 04.92319	07 59 03.76	+44 44 39.0	14.9	N	K A71
C/2016 N6	2018 06 04.92587	07 59 03.85	+44 44 35.9	15.0	N	K A71
C/2016 N6	2018 06 07.48819	08 00 32.47	+43 51 05.6			K 367
C/2016 N6	2018 06 07.48981	08 00 32.54	+43 51 03.6			K 367
C/2016 N6	2018 06 07.49103	08 00 32.58	+43 51 02.2	12.7	T	K 367
C/2016 N6	2018 06 08.87824	08 01 21.70	+43 22 31.1	14.8	N	9 G40
C/2016 N6	2018 06 08.88127	08 01 21.81	+43 22 27.3	14.7	N	9 G40
C/2016 N6	2018 06 08.88325	08 01 21.90	+43 22 24.4	14.6	N	9 G40
C/2016 N6	2018 06 09.24559	08 01 34.79	+43 15 01.6	14.2	o	T08
C/2016 N6	2018 06 09.25025	08 01 34.96	+43 14 56.0	14.2	o	T08
C/2016 N6	2018 06 09.25961	08 01 35.29	+43 14 44.6	14.2	o	T08
C/2016 N6	2018 06 09.26342	08 01 35.40	+43 14 40.0	14.2	o	T08
C/2016 N6	2018 06 11.24918	08 02 47.17	+42 34 28.5	14.5	c	T05
C/2016 N6	2018 06 11.25250	08 02 47.35	+42 34 24.6	14.5	c	T05
C/2016 N6	2018 06 11.25814	08 02 47.54	+42 34 17.3	14.7	c	T05
C/2016 N6	2018 06 11.26619	08 02 47.83	+42 34 07.9	14.3	c	T05
C/2016 N6	2018 06 16.49803	08 06 02.63	+40 51 02.3			K 367
C/2016 N6	2018 06 16.49965	08 06 02.69	+40 51 00.5			K 367
C/2016 N6	2018 06 16.50087	08 06 02.72	+40 50 59.0	12.7	T	K 367
C/2016 N6	2018 06 20.86178	08 08 49.90	+39 27 57.1	14.0	N	C86
C/2016 N6	2018 06 20.86726	08 08 50.10	+39 27 50.7	14.1	N	C86
C/2016 N6	2018 06 20.86907	08 08 50.16	+39 27 48.8	14.0	N	C86
C/2016 N6	2018 08 28.41280	08 50 37.81	+20 48 46.8	14.0	R	K 850
C/2016 N6	2018 08 28.42681	08 50 38.24	+20 48 34.3	14.1	R	K 850
C/2016 N6	2018 08 30.24249	08 51 28.12	+20 20 27.9	14.6	N	9 G40
C/2016 N6	2018 08 30.24441	08 51 28.18	+20 20 25.4	14.6	N	9 G40
C/2016 N6	2018 08 30.40608	08 51 32.51	+20 17 55.8	14.1	R	K 850
C/2016 N6	2018 08 30.41307	08 51 32.64	+20 17 49.8	14.1	R	K 850
C/2016 N6	2018 08 30.41999	08 51 32.93	+20 17 43.5	14.2	R	K 850
C/2016 N6	2018 08 30.42798	08 51 33.10	+20 17 35.0	14.2	R	K 850
C/2016 N6	2018 08 30.43597	08 51 33.37	+20 17 27.8	14.1	R	K 850
C/2016 N6	2018 08 31.23406	08 51 54.76	+20 05 04.9	14.7	N	9 G40
C/2016 N6	2018 08 31.24177	08 51 54.90	+20 04 58.0	14.6	N	9 G40
C/2016 N6	2018 09 02.40746	08 52 51.38	+19 31 17.6	14.1	R	K 850
C/2016 N6	2018 09 02.41468	08 52 51.57	+19 31 11.4	14.1	R	K 850
C/2016 N6	2018 09 02.42164	08 52 51.70	+19 31 05.2	14.1	R	K 850
C/2016 N6	2018 09 02.42886	08 52 51.93	+19 30 58.1	14.2	R	K 850
C/2016 N6	2018 09 13.48009	08 57 00.81	+16 36 59.8			32H06
C/2016 N6	2018 09 13.48208	08 57 00.85	+16 36 58.1	13.0	G	32H06
C/2016 N6	2018 09 16.79808	08 58 00.94	+15 43 49.3			349
C/2016 N6	2018 09 16.80296	08 58 01.03	+15 43 44.7			349
C/2016 N6	2018 09 16.80786	08 58 01.10	+15 43 39.8	13.0	T	349

C/2016 Q2 (PANSTARRS)

C/2016 Q2	2018 08 03.98512	20 38 52.92	+07 23 10.8	19.6	T	K 461
C/2016 Q2	2018 08 03.99488	20 38 52.54	+07 23 11.7	19.8	T	K 461
C/2016 Q2	2018 08 04.50799	20 38 35.71	+07 23 26.0			1 Q62
C/2016 Q2	2018 08 04.51042	20 38 35.60	+07 23 26.3			1 Q62
C/2016 Q2	2018 08 04.51285	20 38 35.54	+07 23 26.5	19.1	G	1 Q62
C/2016 Q2	2018 08 04.94955	20 38 21.00	+07 23 36.2	20.1	T	K 461
C/2016 Q2	2018 08 04.95940	20 38 20.62	+07 23 36.2	20.0	T	K 461
C/2016 Q2	2018 08 11.95904	20 34 29.59	+07 25 18.8	19.6	R	K 215
C/2016 Q2	2018 08 11.96225	20 34 29.49	+07 25 20.0	19.3	R	K 215
C/2016 Q2	2018 08 11.96546	20 34 29.35	+07 25 20.4	19.2	R	K 215

C/2016 Q2	2018 08 17.85827	20 31 18.08	+07 24 57.2	20.1	T	K	461
C/2016 Q2	2018 08 17.86462	20 31 17.88	+07 24 57.3	20.4	T	K	461
C/2016 Q2	2018 08 18.90040	20 30 44.69	+07 24 44.5	20.4	T	K	461
C/2016 Q2	2018 08 18.91027	20 30 44.38	+07 24 44.6	20.6	T	K	461
C/2016 Q2	2018 08 19.91409	20 30 12.44	+07 24 29.3	20.5	T	K	461
C/2016 Q2	2018 08 19.92467	20 30 12.06	+07 24 28.5	20.6	T	K	461

C/2016 R2 (PANSTARRS)

C/2016 R2	2018 01 21.23310	04 05 18.05	+20 05 03.2	15.5	N	N	H06
C/2016 R2	2018 01 21.23669	04 05 17.88	+20 05 07.6	15.5	N	N	H06
C/2016 R2	2018 01 21.24028	04 05 17.74	+20 05 11.1	15.4	N	N	H06
C/2016 R2	2018 01 21.24615	04 05 17.59	+20 05 16.6	15.4	N	N	H06
C/2016 R2	2018 02 17.02380	03 58 41.54	+27 19 21.9	15.6	N	14	W88
C/2016 R2	2018 02 17.02466	03 58 41.52	+27 19 22.7	15.4	N	14	W88
C/2016 R2	2018 02 17.02553	03 58 41.52	+27 19 23.7	15.6	N	14	W88
C/2016 R2	2018 02 17.03420	03 58 41.63	+27 19 31.8	15.6	N	14	W88
C/2016 R2	2018 02 17.03508	03 58 41.59	+27 19 31.8	16.1	N	14	W88
C/2016 R2	2018 02 17.03595	03 58 41.62	+27 19 33.2	15.5	N	14	W88
C/2016 R2	2018 02 17.04457	03 58 41.69	+27 19 41.1	15.6	N	14	W88
C/2016 R2	2018 02 17.04546	03 58 41.69	+27 19 41.5	15.5	N	14	W88
C/2016 R2	2018 02 17.04638	03 58 41.65	+27 19 42.4	15.6	N	14	W88
C/2016 R2	2018 02 19.76425	03 59 13.33	+28 00 49.0	16.3	N	K	160
C/2016 R2	2018 02 19.77109	03 59 13.42	+28 00 55.2	16.3	N	K	160
C/2016 R2	2018 02 19.77790	03 59 13.50	+28 01 01.4	16.3	N	K	160
C/2016 R2	2018 02 19.78604	03 59 13.65	+28 01 08.7	16.3	N	K	160
C/2016 R2	2018 02 19.79279	03 59 13.73	+28 01 14.8	16.2	N	K	160
C/2016 R2	2018 02 19.79953	03 59 13.81	+28 01 20.7	16.3	N	K	160
C/2016 R2	2018 02 19.81960	03 59 14.09	+28 01 38.8	16.2	N	K	160
C/2016 R2	2018 04 21.81390	04 59 13.77	+41 40 14.2	14.9	N		585
C/2016 R2	2018 04 21.81461	04 59 13.91	+41 40 15.1	14.9	N		585
C/2016 R2	2018 04 21.81531	04 59 13.97	+41 40 15.5	14.9	N		585
C/2016 R2	2018 04 21.81673	04 59 14.08	+41 40 16.6	14.7	N		585
C/2016 R2	2018 04 21.81744	04 59 14.17	+41 40 16.9	14.5	N		585
C/2016 R2	2018 04 21.81815	04 59 14.24	+41 40 17.4	14.5	N		585
C/2016 R2	2018 04 21.81886	04 59 14.32	+41 40 17.9	14.5	N		585
C/2016 R2	2018 04 21.81957	04 59 14.35	+41 40 18.6	14.2	N		585
C/2016 R2	2018 04 21.82099	04 59 14.52	+41 40 19.3	14.3	N		585
C/2016 R2	2018 05 01.87169	05 16 53.25	+43 36 18.8	14.9	N		I72
C/2016 R2	2018 05 01.88969	05 16 55.30	+43 36 31.0	14.9	N		I72
C/2016 R2	2018 05 01.90787	05 16 57.35	+43 36 42.5	14.9	N		I72
C/2016 R2	2018 05 06.85839	05 26 24.41	+44 31 19.7	15.7	N		L30
C/2016 R2	2018 05 06.85997	05 26 24.64	+44 31 20.8	15.6	N		L30
C/2016 R2	2018 05 06.86153	05 26 24.72	+44 31 21.6	15.8	N		L30
C/2016 R2	2018 05 06.86310	05 26 24.95	+44 31 22.3	16.5	N		L30
C/2016 R2	2018 05 06.86468	05 26 25.21	+44 31 23.3	16.2	N		L30
C/2016 R2	2018 05 06.86625	05 26 25.34	+44 31 24.2	16.3	N		L30
C/2016 R2	2018 05 06.86781	05 26 25.55	+44 31 26.0	16.3	N		L30
C/2016 R2	2018 05 07.87512	05 28 24.57	+44 42 18.7	15.6	N		L30
C/2016 R2	2018 05 07.87825	05 28 24.90	+44 42 21.5	15.8	N		L30
C/2016 R2	2018 05 07.87983	05 28 25.20	+44 42 22.3	16.1	N		L30
C/2016 R2	2018 05 07.88297	05 28 25.46	+44 42 24.4	15.4	N		L30
C/2016 R2	2018 05 09.86614	05 32 23.51	+45 03 36.6	15.3	N		K97
C/2016 R2	2018 05 09.86935	05 32 23.91	+45 03 38.7	15.2	N		K97
C/2016 R2	2018 05 09.87338	05 32 24.34	+45 03 41.1	15.3	N		K97
C/2016 R2	2018 05 09.88668	05 32 25.98	+45 03 49.4	15.4	N		K97
C/2016 R2	2018 05 30.87448	06 19 17.24	+48 26 56.6	14.8	N		C86
C/2016 R2	2018 05 30.87703	06 19 17.78	+48 26 57.6	14.7	N		C86
C/2016 R2	2018 05 30.87957	06 19 18.08	+48 26 59.2	14.7	N		C86
C/2016 R2	2018 06 01.46702	06 23 12.00	+48 40 30.8			K	D81
C/2016 R2	2018 06 01.46831	06 23 12.08	+48 40 31.5			K	D81
C/2016 R2	2018 06 01.46958	06 23 12.23	+48 40 31.2			K	D81
C/2016 R2	2018 06 01.47086	06 23 12.46	+48 40 31.7	13.0	T	K	D81
C/2016 R2	2018 06 02.45914	06 25 39.68	+48 48 48.6	12.8	T		349
C/2016 R2	2018 06 02.46586	06 25 40.69	+48 48 51.8				349
C/2016 R2	2018 06 02.87928	06 26 42.61	+48 52 16.9	15.5	N		K97
C/2016 R2	2018 06 02.88811	06 26 43.96	+48 52 21.1	15.3	N		K97
C/2016 R2	2018 06 02.89546	06 26 45.04	+48 52 24.8	15.3	N		K97
C/2016 R2	2018 06 02.89840	06 26 45.48	+48 52 26.2	15.4	N		K97
C/2016 R2	2018 06 02.91164	06 26 47.43	+48 52 33.4	15.4	N		K97
C/2016 R2	2018 06 04.90730	06 31 49.18	+49 08 48.0	15.6	N	K	A71
C/2016 R2	2018 06 04.91401	06 31 50.29	+49 08 51.0	15.7	N	K	A71
C/2016 R2	2018 06 07.47662	06 38 24.25	+49 29 01.1			K	367
C/2016 R2	2018 06 07.48067	06 38 24.89	+49 29 03.1			K	367
C/2016 R2	2018 06 07.48472	06 38 25.52	+49 29 04.8	12.3	T	K	367
C/2016 R2	2018 06 16.48410	07 02 28.11	+50 33 02.8			K	367
C/2016 R2	2018 06 16.48531	07 02 28.32	+50 33 02.9			K	367
C/2016 R2	2018 06 16.48693	07 02 28.56	+50 33 03.6	12.0	T	K	367
C/2016 R2	2018 07 17.86201	08 36 01.83	+52 38 11.1	15.0	N		C86
C/2016 R2	2018 07 17.86520	08 36 02.40	+52 38 11.9	15.0	N		C86
C/2016 R2	2018 07 17.86837	08 36 02.99	+52 38 11.9	15.0	N		C86
C/2016 R2	2018 07 31.07173	09 18 07.31	+52 39 31.0	14.7	N		I81
C/2016 R2	2018 07 31.07549	09 18 08.12	+52 39 31.0	14.7	N		I81
C/2016 R2	2018 07 31.07850	09 18 08.64	+52 39 30.3	14.9	N		I81
C/2016 R2	2018 07 31.86834	09 20 40.87	+52 38 37.8	13.2	N		K77
C/2016 R2	2018 07 31.87060	09 20 41.03	+52 38 37.0	13.4	N		K77
C/2016 R2	2018 07 31.97041	09 21 00.07	+52 38 27.7	15.4	N	K	K02
C/2016 R2	2018 07 31.97348	09 21 00.66	+52 38 27.1	15.3	N	K	K02
C/2016 R2	2018 07 31.97654	09 21 01.28	+52 38 27.5	15.4	N	K	K02
C/2016 R2	2018 08 02.94405	09 27 19.44	+52 35 39.7	15.5	N	K	K02
C/2016 R2	2018 08 02.95001	09 27 20.65	+52 35 39.9	15.6	N	K	K02
C/2016 R2	2018 08 02.95595	09 27 21.82	+52 35 38.4	15.6	N	K	K02
C/2016 R2	2018 08 04.47147	09 32 12.94	+52 33 03.4			K	367
C/2016 R2	2018 08 04.47431	09 32 13.50	+52 33 03.0			K	367
C/2016 R2	2018 08 04.47714	09 32 14.02	+52 33 02.5	12.6	T	K	367
C/2016 R2	2018 08 04.94359	09 33 43.76	+52 32 08.2	15.5	N	K	K02
C/2016 R2	2018 08 04.94957	09 33 44.91	+52 32 08.7	15.5	N	K	K02
C/2016 R2	2018 08 04.95641	09 33 46.22	+52 32 07.3	15.6	N	K	K02
C/2016 R2	2018 08 06.94799	09 40 08.69	+52 27 57.4	15.9	N		238
C/2016 R2	2018 08 06.95238	09 40 09.48	+52 27 56.6	15.8	N		238
C/2016 R2	2018 08 06.95823	09 40 10.53	+52 27 55.5	15.6	N		238
C/2016 R2	2018 08 10.84343	09 52 34.86	+52 17 50.9	13.2	N		A98
C/2016 R2	2018 08 10.84432	09 52 35.02	+52 17 49.3	13.3	N		A98
C/2016 R2	2018 08 10.84609	09 52 35.29	+52 17 50.1	13.4	N		A98
C/2016 R2	2018 08 10.85284	09 52 36.61	+52 17 47.6	13.0	N		A98
C/2016 R2	2018 08 10.85637	09 52 37.13	+52 17 46.6	13.0	N		A98
C/2016 R2	2018 08 10.93255	09 52 51.68	+52 17 34.6	15.8	N		238

C/2016 R2	2018 08 10.94062	09 52 53.23	+52 17 33.2	15.9	N	238
C/2016 R2	2018 08 10.95444	09 52 55.88	+52 17 30.7	16.0	N	238
C/2016 R2	2018 08 10.96425	09 52 57.77	+52 17 29.0	16.1	N	238
C/2016 R2	2018 08 14.86162	10 05 20.09	+52 04 51.5	15.4	N	I72
C/2016 R2	2018 08 14.88108	10 05 23.80	+52 04 47.1	15.4	N	I72
C/2016 R2	2018 08 14.90029	10 05 27.48	+52 04 42.9	15.4	N	I72
C/2016 R2	2018 08 17.43660	10 13 27.94	+51 55 14.2	13.0	T	349
C/2016 R2	2018 08 17.44137	10 13 28.90	+51 55 13.5			349
C/2016 R2	2018 09 01.89706	11 01 06.96	+50 38 17.7	14.9	N	I81
C/2016 R2	2018 09 01.90141	11 01 07.75	+50 38 16.1	14.9	N	I81
C/2016 R2	2018 09 01.90430	11 01 08.27	+50 38 14.8	14.9	N	I81
C/2016 R2	2018 09 13.78647	11 35 59.65	+49 21 22.4	16.1	N	K L27
C/2016 R2	2018 09 13.79946	11 36 01.84	+49 21 17.0	16.2	N	K L27
C/2016 R2	2018 09 13.81571	11 36 04.66	+49 21 10.4	16.2	N	K L27
C/2016 R2	2018 09 15.06856	11 39 39.20	+49 12 25.6	15.1	N	A98
C/2016 R2	2018 09 15.07010	11 39 39.36	+49 12 22.2	15.1	N	A98
C/2016 R2	2018 09 15.07087	11 39 39.48	+49 12 23.5	15.0	N	A98
C/2016 R2	2018 09 15.07241	11 39 39.80	+49 12 25.9	15.2	N	A98
C/2016 R2	2018 09 15.07703	11 39 40.58	+49 12 22.0	14.9	N	A98
C/2016 R2	2018 09 15.07933	11 39 41.05	+49 12 20.8	15.0	N	A98
C/2016 R2	2018 09 16.13050	11 42 39.62	+49 04 55.9	15.6	N	K C10
C/2016 R2	2018 09 16.15528	11 42 43.84	+49 04 45.1	15.8	N	K C10
C/2016 R2	2018 09 16.17586	11 42 47.34	+49 04 36.9	15.8	N	K C10
C/2016 R2	2018 09 18.15155	11 48 20.70	+48 50 29.5	15.9	N	C10
C/2016 R2	2018 09 18.16293	11 48 22.58	+48 50 24.9	15.7	N	C10
C/2016 R2	2018 09 18.17508	11 48 24.63	+48 50 19.7	15.8	N	C10

C/2017 AB$_5$ (PANSTARRS)

C/2017 AB$_5$	2018 02 09.24028	08 32 01.51	+54 59 05.9			5 U69
C/2017 AB$_5$	2018 02 09.24289	08 32 01.42	+54 59 05.7			5 U69
C/2017 AB$_5$	2018 02 09.24547	08 32 01.39	+54 59 05.5	19.2	w	5 U69

C/2017 B3 (LINEAR)

C/2017 B3	2018 06 05.46417	12 04 18.71	−66 47 09.2	16.9	V	Q38
C/2017 B3	2018 06 05.46852	12 04 18.35	−66 47 08.2	16.8	V	Q38
C/2017 B3	2018 06 05.47192	12 04 18.21	−66 47 07.7	16.8	V	Q38
C/2017 B3	2018 06 18.04882	11 58 57.97	−65 53 34.5	15.1	R	K I47
C/2017 B3	2018 06 18.05846	11 58 57.88	−65 53 31.6	15.1	R	K I47
C/2017 B3	2018 06 18.06886	11 58 57.73	−65 53 29.4	15.1	R	K I47
C/2017 B3	2018 06 20.98069	11 58 37.38	−65 41 28.8	15.6	T	3W88
C/2017 B3	2018 06 20.98620	11 58 37.41	−65 41 26.8	15.6	T	3W88
C/2017 B3	2018 06 20.99192	11 58 37.40	−65 41 26.0	15.6	T	3W88
C/2017 B3	2018 06 30.36351	11 59 38.09	−65 05 49.0	15.2	N	Q68
C/2017 B3	2018 06 30.39185	11 59 38.43	−65 05 43.0	15.2	N	Q68
C/2017 B3	2018 07 04.36018	12 00 58.92	−64 52 33.1	15.4	N	Q68
C/2017 B3	2018 07 04.38903	12 00 59.49	−64 52 27.6	15.9	N	Q68
C/2017 B3	2018 07 05.45475	12 01 26.51	−64 49 07.8	15.3	N	Q68
C/2017 B3	2018 07 05.48119	12 01 27.00	−64 49 04.4	15.4	N	Q68
C/2017 B3	2018 07 12.34358	12 05 12.18	−64 30 20.7	14.8	N	Q68
C/2017 B3	2018 07 12.35866	12 05 12.68	−64 30 18.8	15.2	N	Q68
C/2017 B3	2018 07 14.41903	12 06 37.02	−64 25 35.9	15.4	N	Q68
C/2017 B3	2018 07 14.43336	12 06 37.58	−64 25 33.8	15.4	N	Q68
C/2017 B3	2018 07 15.42748	12 07 20.98	−64 23 28.0	16.7	N	Q68
C/2017 B3	2018 07 15.44096	12 07 21.59	−64 23 25.8	16.2	N	Q68
C/2017 B3	2018 07 16.35001	12 08 02.90	−64 21 37.4	15.5	N	Q68
C/2017 B3	2018 07 16.36438	12 08 03.54	−64 21 35.4	15.6	N	Q68
C/2017 B3	2018 07 17.38375	12 08 51.43	−64 19 39.2	15.5	N	Q68
C/2017 B3	2018 07 17.42323	12 08 53.25	−64 19 34.3	15.7	N	Q68
C/2017 B3	2018 07 18.37592	12 09 39.77	−64 17 52.6	15.6	N	Q68
C/2017 B3	2018 07 18.39005	12 09 40.44	−64 17 51.0	15.7	N	Q68
C/2017 B3	2018 07 19.46920	12 10 34.83	−64 16 02.1	15.5	N	Q68
C/2017 B3	2018 07 19.47652	12 10 35.22	−64 16 01.0	15.5	N	Q68
C/2017 B3	2018 08 09.52164	12 34 24.23	−64 07 12.1	16.2	G	Q38
C/2017 B3	2018 08 09.52995	12 34 25.13	−64 07 12.9	16.1	G	Q38
C/2017 B3	2018 08 12.36077	12 38 28.43	−64 09 51.0	15.7	N	Q68
C/2017 B3	2018 08 12.37675	12 38 29.96	−64 09 52.7	15.8	N	Q68
C/2017 B3	2018 08 13.35182	12 39 56.32	−64 10 57.4	15.8	N	Q68
C/2017 B3	2018 08 13.36756	12 39 57.68	−64 10 59.3	15.9	N	Q68
C/2017 B3	2018 08 14.35383	12 41 26.58	−64 12 12.0	15.7	N	Q68
C/2017 B3	2018 08 14.36826	12 41 27.93	−64 12 13.3	15.7	N	Q68
C/2017 B3	2018 08 15.96910	12 43 55.58	−64 14 25.5	14.5	T	13W88
C/2017 B3	2018 08 15.99386	12 43 57.90	−64 14 27.4	14.6	T	13W88
C/2017 B3	2018 08 16.34757	12 44 30.83	−64 14 59.4	14.5	N	Q68
C/2017 B3	2018 08 16.36791	12 44 32.37	−64 15 01.7	15.4	N	Q68
C/2017 B3	2018 08 17.38424	12 46 08.95	−64 16 34.9	15.5	N	Q68
C/2017 B3	2018 08 17.40042	12 46 10.45	−64 16 36.5	15.2	N	Q68
C/2017 B3	2018 08 29.01927	13 06 16.04	−64 41 44.2	15.8	N	3W88
C/2017 B3	2018 08 29.04323	13 06 18.72	−64 41 47.0			3W88
C/2017 B3	2018 08 29.04805	13 06 19.27	−64 41 48.4	16.0	N	3W88

C/2017 D2 (Barros)

C/2017 D2	2018 09 17.30869	01 40 54.66	+45 38 43.7	21.7	G	G96
C/2017 D2	2018 09 17.31380	01 40 54.45	+45 38 44.1	21.5	G	G96
C/2017 D2	2018 09 17.31891	01 40 54.28	+45 38 45.3	21.5	G	G96
C/2017 D2	2018 09 17.32403	01 40 54.09	+45 38 46.7	21.5	G	G96

C/2017 D3 (ATLAS)

C/2017 D3	2018 04 21.89861	11 41 25.03	+24 25 11.0	17.5	N	K 585
C/2017 D3	2018 04 21.89932	11 41 25.00	+24 25 11.3	17.6	N	K 585
C/2017 D3	2018 04 21.90004	11 41 24.99	+24 25 11.2	17.7	N	K 585
C/2017 D3	2018 04 21.90075	11 41 24.92	+24 25 11.9	17.6	N	K 585
C/2017 D3	2018 04 21.90146	11 41 24.88	+24 25 12.1	17.7	N	K 585
C/2017 D3	2018 04 21.90217	11 41 24.85	+24 25 12.4	17.7	N	K 585
C/2017 D3	2018 04 21.90288	11 41 24.84	+24 25 12.7	17.6	N	K 585
C/2017 D3	2018 04 21.90359	11 41 24.81	+24 25 13.0	17.7	N	K 585
C/2017 D3	2018 04 21.90430	11 41 24.77	+24 25 13.4	17.8	N	K 585
C/2017 D3	2018 04 21.90515	11 41 24.74	+24 25 13.5	17.7	N	K 585
C/2017 D3	2018 04 21.90600	11 41 24.70	+24 25 13.6	17.8	N	K 585
C/2017 D3	2018 04 21.90685	11 41 24.66	+24 25 13.9	17.8	N	K 585
C/2017 D3	2018 04 21.90770	11 41 24.63	+24 25 14.3	17.7	N	K 585
C/2017 D3	2018 04 22.50499	11 40 57.89	+24 29 24.6	17.2	T	349
C/2017 D3	2018 04 22.52049	11 40 57.17	+24 29 30.9			349
C/2017 D3	2018 07 13.47327	11 23 01.84	+27 35 17.4			K Q11
C/2017 D3	2018 07 13.47934	11 23 01.93	+27 35 17.3			K Q11
C/2017 D3	2018 07 13.48539	11 23 02.02	+27 35 17.2	18.3	T	K Q11

C/2017 E3 (PANSTARRS)

C/2017 E3	2018 04 22.62576	14 50 53.89	−11 52 07.6	16.9	T	349
C/2017 E3	2018 04 22.64125	14 50 53.44	−11 52 00.4			349
C/2017 E3	2018 05 07.28490	14 44 07.12	−09 53 38.9	17.1	R	K H47
C/2017 E3	2018 05 07.30358	14 44 06.65	−09 53 29.7	17.0	R	K H47
C/2017 E3	2018 05 07.32061	14 44 06.14	−09 53 21.6	17.2	R	K H47
C/2017 E3	2018 05 08.31869	14 43 38.64	−09 45 26.6	17.6	R	K H47
C/2017 E3	2018 05 08.33456	14 43 38.18	−09 45 19.5	17.3	R	K H47
C/2017 E3	2018 05 08.34590	14 43 37.83	−09 45 14.0	16.8	R	K H47
C/2017 E3	2018 05 18.03400	14 39 18.99	−08 30 33.8	17.6	N	17G40
C/2017 E3	2018 05 18.03613	14 39 18.92	−08 30 32.9	17.7	N	17G40
C/2017 E3	2018 05 31.00245	14 34 12.95	−06 58 44.0	17.1	N	17G40
C/2017 E3	2018 05 31.01596	14 34 12.63	−06 58 38.4	17.4	N	17G40
C/2017 E3	2018 05 31.02309	14 34 12.47	−06 58 35.7	17.4	N	17G40
C/2017 E3	2018 05 31.45486	14 34 03.40	−06 55 42.5	18.0	o	T05
C/2017 E3	2018 05 31.46193	14 34 03.19	−06 55 41.0	18.1	o	T05
C/2017 E3	2018 05 31.46287	14 34 03.17	−06 55 39.4	17.8	o	T05
C/2017 E3	2018 05 31.47039	14 34 03.12	−06 55 38.5	17.9	o	T05
C/2017 E3	2018 05 31.47085	14 34 02.97	−06 55 36.9	17.9	o	T05
C/2017 E3	2018 05 31.47880	14 34 02.80	−06 55 34.3	18.0	o	T05
C/2017 E3	2018 05 31.48625	14 34 02.64	−06 55 31.0	18.1	o	T05
C/2017 E3	2018 06 02.60936	14 33 19.08	−06 41 39.6	17.0	T	349
C/2017 E3	2018 06 02.62235	14 33 18.84	−06 41 34.1			349
C/2017 E3	2018 06 04.92086	14 32 33.95	−06 26 56.9	18.1	R	B96
C/2017 E3	2018 06 04.92412	14 32 33.92	−06 26 56.6	17.2	R	B96
C/2017 E3	2018 06 04.92575	14 32 33.82	−06 26 55.6	17.8	R	B96
C/2017 E3	2018 06 06.56333	14 32 03.21	−06 16 47.7	17.0	R	D29
C/2017 E3	2018 06 06.57747	14 32 02.94	−06 16 42.2	17.0	R	D29
C/2017 E3	2018 06 06.59162	14 32 02.67	−06 16 37.6	16.7	R	D29
C/2017 E3	2018 06 13.87010	14 30 02.71	−05 34 06.0	17.1	N	B74
C/2017 E3	2018 06 13.88640	14 30 02.47	−05 34 00.5	17.1	N	B74
C/2017 E3	2018 06 13.90025	14 30 02.18	−05 33 57.0	17.1	N	B74
C/2017 E3	2018 06 14.29593	14 29 56.50	−05 31 42.6	19.7	N	E85
C/2017 E3	2018 06 14.30668	14 29 56.26	−05 31 39.8	19.4	N	E85
C/2017 E3	2018 06 14.31384	14 29 56.18	−05 31 36.5	19.3	N	E85
C/2017 E3	2018 06 14.32462	14 29 56.17	−05 31 33.3	19.4	N	E85
C/2017 E3	2018 06 15.56454	14 29 38.62	−05 24 51.4	16.9	R	D29
C/2017 E3	2018 06 15.57868	14 29 38.37	−05 24 46.3	17.0	R	D29
C/2017 E3	2018 06 15.59283	14 29 38.16	−05 24 42.3	17.0	R	D29
C/2017 E3	2018 06 17.39998	14 29 14.19	−05 15 04.4	18.4	c	T05
C/2017 E3	2018 06 17.41085	14 29 14.04	−05 15 01.8	17.6	c	T05
C/2017 E3	2018 06 17.42182	14 29 13.92	−05 14 58.4	17.7	c	T05
C/2017 E3	2018 06 17.43272	14 29 13.78	−05 14 54.6	18.4	c	T05
C/2017 E3	2018 06 18.21024	14 29 04.20	−05 10 53.7			G96
C/2017 E3	2018 06 18.21542	14 29 04.02	−05 10 51.7	16.7	G	G96
C/2017 E3	2018 06 18.22058	14 29 03.96	−05 10 49.8	16.9	G	G96
C/2017 E3	2018 06 18.22576	14 29 03.78	−05 10 45.0			G96
C/2017 E3	2018 06 18.25398	14 29 03.56	−05 10 41.4	16.6	G	703
C/2017 E3	2018 06 18.25928	14 29 03.50	−05 10 40.8	16.6	G	703
C/2017 E3	2018 06 18.26459	14 29 03.40	−05 10 37.5	16.7	G	703
C/2017 E3	2018 06 18.26989	14 29 03.31	−05 10 37.2	16.3	G	703
C/2017 E3	2018 06 18.93440	14 28 55.29	−05 07 08.1	17.0	N	K C23
C/2017 E3	2018 06 18.94018	14 28 55.27	−05 07 06.7	17.2	N	K C23
C/2017 E3	2018 06 19.37175	14 28 50.15	−05 04 55.2	18.1	o	T08
C/2017 E3	2018 06 19.38228	14 28 49.94	−05 04 51.9	18.2	o	T08
C/2017 E3	2018 06 19.39333	14 28 49.87	−05 04 49.2	18.1	o	T08
C/2017 E3	2018 06 19.40380	14 28 49.75	−05 04 46.2	18.1	o	T08
C/2017 E3	2018 06 19.91017	14 28 43.95	−05 02 12.5	17.5	N	B54
C/2017 E3	2018 06 19.91502	14 28 43.89	−05 02 11.1	17.5	N	B54
C/2017 E3	2018 06 19.91623	14 28 43.92	−05 02 10.8	17.6	N	B54
C/2017 E3	2018 06 21.36162	14 28 27.94	−04 54 58.7	18.2	o	T05
C/2017 E3	2018 06 21.37218	14 28 27.85	−04 54 56.7	17.8	o	T05
C/2017 E3	2018 06 21.38225	14 28 27.71	−04 54 54.4	17.2	o	T05
C/2017 E3	2018 06 21.39285	14 28 27.65	−04 54 49.8	18.2	o	T05
C/2017 E3	2018 06 30.39841	14 27 14.95	−04 14 09.4	17.9	o	T08
C/2017 E3	2018 06 30.40194	14 27 15.06	−04 14 06.9	18.0	N	Q68
C/2017 E3	2018 06 30.40547	14 27 14.89	−04 14 07.9	17.7	o	T08
C/2017 E3	2018 06 30.41114	14 27 14.97	−04 14 07.2	17.9	o	T08
C/2017 E3	2018 06 30.41770	14 27 14.80	−04 14 08.2	18.1	o	T08
C/2017 E3	2018 06 30.46738	14 27 14.59	−04 13 50.3	17.7	N	Q68
C/2017 E3	2018 07 04.39940	14 26 57.35	−03 58 13.4	18.0	N	Q68
C/2017 E3	2018 07 04.43460	14 26 57.24	−03 58 05.4	17.7	N	Q68
C/2017 E3	2018 07 05.49090	14 26 54.03	−03 54 05.2	17.6	N	Q68
C/2017 E3	2018 07 05.52392	14 26 53.92	−03 54 00.3	17.5	N	Q68
C/2017 E3	2018 07 06.90322	14 26 50.88	−03 48 57.4	17.2	R	20G40
C/2017 E3	2018 07 06.90697	14 26 50.86	−03 48 56.5	17.1	R	20G40
C/2017 E3	2018 07 06.91704	14 26 50.83	−03 48 53.9	17.7	R	20G40
C/2017 E3	2018 07 12.26767	14 26 48.93	−03 30 40.0	19.1	N	E85
C/2017 E3	2018 07 12.27124	14 26 48.93	−03 30 39.5	19.7	N	E85
C/2017 E3	2018 07 12.27483	14 26 48.97	−03 30 38.6	19.7	N	E85
C/2017 E3	2018 07 12.27840	14 26 48.97	−03 30 37.8	19.1	N	E85
C/2017 E3	2018 07 12.36641	14 26 48.71	−03 30 19.7	16.2	N	Q68
C/2017 E3	2018 07 12.39162	14 26 48.79	−03 30 18.9	16.1	N	Q68
C/2017 E3	2018 07 13.34497	14 26 50.46	−03 27 18.2	17.7	o	T08
C/2017 E3	2018 07 13.35564	14 26 50.45	−03 27 17.9	17.4	o	T08
C/2017 E3	2018 07 13.36638	14 26 50.43	−03 27 14.3	18.1	o	T08
C/2017 E3	2018 07 13.37724	14 26 50.54	−03 27 13.1	18.1	o	T08
C/2017 E3	2018 07 13.55145	14 26 50.86	−03 26 40.7	17.3	R	D29
C/2017 E3	2018 07 13.56559	14 26 50.87	−03 26 38.2	17.1	R	D29
C/2017 E3	2018 07 13.57973	14 26 50.90	−03 26 35.7	17.2	R	D29
C/2017 E3	2018 07 15.44665	14 26 55.42	−03 20 54.4	17.9	N	Q68
C/2017 E3	2018 07 15.47095	14 26 55.51	−03 20 50.1	18.0	N	Q68
C/2017 E3	2018 07 16.36995	14 26 58.43	−03 18 11.9	17.7	N	Q68
C/2017 E3	2018 07 16.39615	14 26 58.48	−03 18 07.8	17.8	N	Q68
C/2017 E3	2018 07 17.31420	14 27 01.80	−03 15 31.8	18.4	o	T08
C/2017 E3	2018 07 17.32447	14 27 01.81	−03 15 30.1	18.3	o	T08
C/2017 E3	2018 07 17.33432	14 27 01.87	−03 15 30.2	17.7	o	T08
C/2017 E3	2018 07 17.34473	14 27 01.87	−03 15 28.7	17.4	o	T08
C/2017 E3	2018 07 18.39578	14 27 06.41	−03 12 29.9	18.0	N	Q68
C/2017 E3	2018 07 18.40961	14 27 06.51	−03 12 27.6	18.3	N	Q68
C/2017 E3	2018 07 26.29546	14 27 59.06	−02 52 58.0	18.5	o	T05
C/2017 E3	2018 07 26.29779	14 27 59.18	−02 52 56.7	18.4	o	T05
C/2017 E3	2018 07 26.30343	14 27 59.20	−02 52 53.4	18.6	o	T05
C/2017 E3	2018 07 26.30574	14 27 59.23	−02 52 56.2	18.4	o	T05
C/2017 E3	2018 07 26.31125	14 27 59.33	−02 52 56.9	18.6	o	T05
C/2017 E3	2018 07 26.31354	14 27 59.37	−02 52 56.0	18.2	o	T05

C/2017 E3	2018 08 09.86841	14 30 59.74	−02 26 51.7	17.9	T		20G40
C/2017 E3	2018 08 09.87900	14 30 59.88	−02 26 50.3	17.8	T		20G40
C/2017 E3	2018 08 11.30522	14 31 23.05	−02 24 52.8	19.2	G		474
C/2017 E3	2018 08 11.30920	14 31 23.11	−02 24 52.4	19.0	G		474
C/2017 E3	2018 08 11.31318	14 31 23.17	−02 24 52.4	18.6	G		474

C/2017 F1 (Lemmon)

C/2017 F1	2018 02 03.11608	04 24 13.79	+58 48 05.7				5 U69
C/2017 F1	2018 02 03.11872	04 24 13.49	+58 48 03.8	21.0	w		5 U69

C/2017 F2 (PANSTARRS)

C/2017 F2	2018 02 15.54239	13 38 09.50	+19 48 50.0				5 U69
C/2017 F2	2018 02 15.54589	13 38 09.47	+19 48 50.5	20.7	w		5 U69
C/2017 F2	2018 06 07.302657	13 00 04.974	+16 45 50.66	22.9	G		29 568
C/2017 F2	2018 06 07.304534	13 00 04.957	+16 45 50.01	22.4	G		29 568
C/2017 F2	2018 06 07.306439	13 00 04.947	+16 45 49.38	22.2	G		29 568
C/2017 F2	2018 06 07.308312	13 00 04.931	+16 45 48.83	22.4	G		29 568
C/2017 F2	2018 06 07.310203	13 00 04.916	+16 45 48.16	22.7	G		29 568
C/2017 F2	2018 06 07.312075	13 00 04.896	+16 45 47.55	22.5	G		29 568

C/2017 K1 (PANSTARRS)

C/2017 K1	2018 06 06.26904	14 02 11.16	−07 11 05.0	19.4	G		703
C/2017 K1	2018 06 06.27448	14 02 11.00	−07 11 03.8	18.9	G		703
C/2017 K1	2018 06 06.27991	14 02 10.81	−07 11 02.5	18.8	G		703
C/2017 K1	2018 06 06.28534	14 02 10.63	−07 11 00.0	19.4	G		703
C/2017 K1	2018 06 11.24452	13 59 07.85	−06 46 47.1	18.9	G		703
C/2017 K1	2018 06 11.24999	13 59 07.54	−06 46 43.4	19.3	G		703
C/2017 K1	2018 06 11.25546	13 59 07.45	−06 46 42.1	18.8	G		703
C/2017 K1	2018 06 11.26093	13 59 07.19	−06 46 40.8	19.3	G		703
C/2017 K1	2018 06 18.19375	13 55 15.89	−06 15 28.5	19.7	G		G96
C/2017 K1	2018 06 18.19890	13 55 15.74	−06 15 27.1	19.5	G		G96
C/2017 K1	2018 06 18.20406	13 55 15.58	−06 15 25.9	19.6	G		G96
C/2017 K1	2018 06 18.20920	13 55 15.42	−06 15 24.8	19.4	G		G96
C/2017 K1	2018 06 18.92869	13 54 53.11	−06 12 22.5	19.3	T		9 G40
C/2017 K1	2018 06 18.94293	13 54 52.61	−06 12 18.6	19.6	T		9 G40

C/2017 K2 (PANSTARRS)

C/2017 K2	2018 05 15.61150	17 57 42.21	+61 45 23.2	17.7	T		349
C/2017 K2	2018 05 15.62911	17 57 41.73	+61 45 25.1				349
C/2017 K2	2018 05 18.64802	17 56 13.795	+61 51 03.28	19.4	G		D35
C/2017 K2	2018 05 18.65855	17 56 13.484	+61 51 04.45	19.4	G		D35
C/2017 K2	2018 05 18.66897	17 56 13.167	+61 51 05.58	19.4	G		D35
C/2017 K2	2018 05 18.67941	17 56 12.850	+61 51 06.73	19.3	G		D35
C/2017 K2	2018 05 18.68998	17 56 12.528	+61 51 07.89	19.4	G		D35
C/2017 K2	2018 05 18.70044	17 56 12.208	+61 51 08.98	19.4	G		D35
C/2017 K2	2018 05 18.71091	17 56 11.888	+61 51 10.15	19.4	G		D35
C/2017 K2	2018 05 22.49204	17 54 16.30	+61 57 21.5	17.2	T	K	D95
C/2017 K2	2018 05 22.50475	17 54 15.91	+61 57 22.6			K	D95
C/2017 K2	2018 05 28.48862	17 51 02.88	+62 05 08.2			K	D95
C/2017 K2	2018 05 28.49289	17 51 02.71	+62 05 08.6	17.3	T	K	D95
C/2017 K2	2018 06 04.93744	17 46 47.99	+62 11 03.6	17.7	N	K	C23
C/2017 K2	2018 06 04.94033	17 46 48.00	+62 11 04.4	17.9	N	K	C23
C/2017 K2	2018 06 04.94322	17 46 47.86	+62 11 04.8	17.9	N	K	C23
C/2017 K2	2018 06 04.94610	17 46 47.82	+62 11 04.7	17.9	N	K	C23
C/2017 K2	2018 06 07.48507	17 45 18.25	+62 12 07.3	16.9	T	K	D95
C/2017 K2	2018 06 07.48930	17 45 18.14	+62 12 07.6			K	D95
C/2017 K2	2018 06 07.49354	17 45 17.99	+62 12 08.1			K	D95
C/2017 K2	2018 06 08.07199	17 44 57.45	+62 12 17.9	18.4	N		J22
C/2017 K2	2018 06 08.07804	17 44 57.16	+62 12 17.8	18.4	N		J22
C/2017 K2	2018 06 08.08103	17 44 57.09	+62 12 18.5	18.4	N		J22
C/2017 K2	2018 06 10.95103	17 43 14.42	+62 12 43.0	18.6	N	K	A71
C/2017 K2	2018 06 10.95607	17 43 14.29	+62 12 43.3	18.5	N	K	A71
C/2017 K2	2018 06 12.70999	17 42 11.07	+62 12 38.9				Q11
C/2017 K2	2018 06 12.71571	17 42 10.88	+62 12 38.7				Q11
C/2017 K2	2018 06 12.72144	17 42 10.64	+62 12 38.6	17.6	T		Q11
C/2017 K2	2018 06 14.90182	17 40 51.90	+62 12 12.0	18.3	N		J01
C/2017 K2	2018 06 14.90891	17 40 51.62	+62 12 11.9	18.4	N		J01
C/2017 K2	2018 06 14.93714	17 40 50.65	+62 12 11.6	18.3	N		J01
C/2017 K2	2018 06 17.98935	17 38 59.95	+62 10 54.6	18.4	N		J01
C/2017 K2	2018 06 18.00347	17 38 59.47	+62 10 54.4	18.5	N		J01
C/2017 K2	2018 06 18.01760	17 38 58.91	+62 10 53.6	18.4	N		J01
C/2017 K2	2018 06 18.41639	17 38 44.497	+62 10 40.26	19.6	w		F51
C/2017 K2	2018 06 18.42822	17 38 43.996	+62 10 39.72	19.8	w		F51
C/2017 K2	2018 06 18.44005	17 38 43.633	+62 10 39.42	19.7	w		F51
C/2017 K2	2018 06 18.45186	17 38 43.134	+62 10 39.07	19.8	w		F51
C/2017 K2	2018 06 18.91024	17 38 26.35	+62 10 21.2	17.9	N	K	C23
C/2017 K2	2018 06 18.91602	17 38 26.45	+62 10 20.7	17.9	N	K	C23
C/2017 K2	2018 06 18.92035	17 38 26.21	+62 10 21.1	17.7	N	K	C23
C/2017 K2	2018 06 18.96036	17 38 24.84	+62 10 21.0	18.2	N		B54
C/2017 K2	2018 06 18.96619	17 38 24.43	+62 10 20.4	18.4	N		B54
C/2017 K2	2018 06 18.96764	17 38 24.38	+62 10 21.2	18.5	N		B54
C/2017 K2	2018 06 18.99465	17 38 23.46	+62 10 17.6	18.4	R		B96
C/2017 K2	2018 06 18.99801	17 38 23.30	+62 10 18.4	18.3	R		B96
C/2017 K2	2018 06 19.00292	17 38 23.18	+62 10 19.2	18.3	R		B96
C/2017 K2	2018 06 19.90219	17 37 50.61	+62 09 42.4	18.3	N	K	C10
C/2017 K2	2018 06 19.92226	17 37 49.73	+62 09 41.4	18.2	N	K	C10
C/2017 K2	2018 06 19.94394	17 37 49.20	+62 09 40.8	18.2	N	K	C10
C/2017 K2	2018 06 20.90004	17 37 14.55	+62 08 58.8	18.4	R	K	C10
C/2017 K2	2018 06 20.92121	17 37 13.74	+62 08 56.7	18.3	R	K	C10
C/2017 K2	2018 06 20.94403	17 37 12.82	+62 08 55.6	18.3	R	K	C10
C/2017 K2	2018 06 23.03837	17 35 57.25	+62 07 06.3	18.7	N	K	L27
C/2017 K2	2018 06 23.05788	17 35 56.55	+62 07 04.2	18.3	N	K	L27
C/2017 K2	2018 06 23.07812	17 35 55.80	+62 07 02.6	18.5	N	K	L27
C/2017 K2	2018 06 24.16619	17 35 16.61	+62 05 57.2	18.4	N		J22
C/2017 K2	2018 06 24.17550	17 35 16.42	+62 05 56.7	18.4	N		J22
C/2017 K2	2018 06 25.45937	17 34 30.414	+62 04 32.10	19.1	i		F51
C/2017 K2	2018 06 25.47233	17 34 29.896	+62 04 31.00	19.6	i		F51
C/2017 K2	2018 06 25.48529	17 34 29.465	+62 04 30.22	19.3	i		F51
C/2017 K2	2018 06 25.49825	17 34 28.939	+62 04 29.04	19.5	i		F51
C/2017 K2	2018 06 25.96003	17 34 12.44	+62 03 55.5	18.4	R		B96
C/2017 K2	2018 06 25.96573	17 34 12.41	+62 03 56.3	18.4	R		B96
C/2017 K2	2018 06 25.96900	17 34 12.28	+62 03 55.4	18.2	R		B96
C/2017 K2	2018 06 26.95990	17 33 36.90	+62 02 39.8	19.0	R		B96
C/2017 K2	2018 06 26.96644	17 33 36.52	+62 02 40.2	18.2	R		B96
C/2017 K2	2018 06 26.97470	17 33 36.13	+62 02 41.0	19.1	R		B96
C/2017 K2	2018 06 27.96198	17 33 01.37	+62 01 22.5	18.4	R		B96
C/2017 K2	2018 06 27.96851	17 33 00.96	+62 01 22.2	18.9	R		B96
C/2017 K2	2018 06 27.97677	17 33 00.83	+62 01 22.0	18.9	R		B96

C/2017 K2	2018 06 28.95822	17 32 26.19	+61 59 58.9	18.2	R		B96
C/2017 K2	2018 06 28.96311	17 32 25.95	+61 59 58.8	18.5	R		B96
C/2017 K2	2018 06 28.96802	17 32 25.90	+61 59 58.0	18.5	R		B96
C/2017 K2	2018 06 28.97608	17 32 25.46	+61 59 56.9	17.7	N	K	970
C/2017 K2	2018 06 29.00987	17 32 24.22	+61 59 53.6	17.8	N	K	970
C/2017 K2	2018 06 29.40766	17 32 10.15	+61 59 20.7	17.6	o		T08
C/2017 K2	2018 06 29.40904	17 32 10.26	+61 59 19.5	18.4	o		T08
C/2017 K2	2018 06 29.42475	17 32 09.58	+61 59 18.0	18.2	o		T08
C/2017 K2	2018 06 29.42891	17 32 08.92	+61 59 16.7	18.4	o		T08
C/2017 K2	2018 06 29.95603	17 31 51.05	+61 58 28.9	18.6	R		B96
C/2017 K2	2018 06 29.96094	17 31 50.77	+61 58 30.3	18.3	R		B96
C/2017 K2	2018 06 29.99556	17 31 49.49	+61 58 26.4	17.8	N	K	C23
C/2017 K2	2018 06 29.99989	17 31 49.45	+61 58 26.4	17.8	N	K	C23
C/2017 K2	2018 06 30.00422	17 31 49.23	+61 58 25.5	17.5	N	K	C23
C/2017 K2	2018 06 30.00855	17 31 49.06	+61 58 24.0	18.0	N	K	C23
C/2017 K2	2018 06 30.90659	17 31 17.74	+61 57 00.4	18.2	N	K	C10
C/2017 K2	2018 06 30.92617	17 31 16.92	+61 56 58.4	18.3	N	K	C10
C/2017 K2	2018 06 30.94750	17 31 16.17	+61 56 57.0	18.2	N	K	C10
C/2017 K2	2018 07 01.67008	17 30 51.22	+61 55 48.0			K	D81
C/2017 K2	2018 07 01.67388	17 30 50.94	+61 55 47.1			K	D81
C/2017 K2	2018 07 01.67693	17 30 50.84	+61 55 46.7			K	D81
C/2017 K2	2018 07 01.67769	17 30 50.92	+61 55 45.1	16.6	T	K	D81
C/2017 K2	2018 07 02.03639	17 30 38.42	+61 55 09.2	18.9	T	K	461
C/2017 K2	2018 07 02.04852	17 30 37.91	+61 55 08.2	19.0	T	K	461
C/2017 K2	2018 07 02.64167	17 30 17.49	+61 54 07.5	17.6	T		349
C/2017 K2	2018 07 02.65203	17 30 17.14	+61 54 06.2				349
C/2017 K2	2018 07 03.03046	17 30 03.90	+61 53 25.7	18.0	N	K	L27
C/2017 K2	2018 07 03.05720	17 30 03.01	+61 53 23.3	17.9	N	K	L27
C/2017 K2	2018 07 03.08469	17 30 02.27	+61 53 20.0	18.0	N	K	L27
C/2017 K2	2018 07 04.40330	17 29 16.963	+61 50 56.57	19.4	i		F51
C/2017 K2	2018 07 04.41778	17 29 16.439	+61 50 54.61	19.4	i		F51
C/2017 K2	2018 07 04.43217	17 29 15.961	+61 50 53.36	19.4	i		F51
C/2017 K2	2018 07 04.44651	17 29 15.427	+61 50 51.63	19.6	i		F51
C/2017 K2	2018 07 07.99671	17 27 15.85	+61 43 41.3	18.0	N	K	C23
C/2017 K2	2018 07 07.99960	17 27 15.96	+61 43 39.6	18.1	N	K	C23
C/2017 K2	2018 07 08.00248	17 27 15.63	+61 43 40.8	17.8	N	K	C23
C/2017 K2	2018 07 08.00537	17 27 15.56	+61 43 40.3	17.4	N	K	C23
C/2017 K2	2018 07 08.00826	17 27 15.58	+61 43 41.3	17.8	N	K	C23
C/2017 K2	2018 07 13.01615	17 24 33.33	+61 31 55.4	18.8	T	K	461
C/2017 K2	2018 07 13.02103	17 24 33.18	+61 31 54.5	18.8	T	K	461
C/2017 K2	2018 07 13.02590	17 24 32.96	+61 31 54.0	18.9	T	K	461
C/2017 K2	2018 07 13.93664	17 24 04.34	+61 29 33.8	17.9	N	K	C23
C/2017 K2	2018 07 13.94097	17 24 04.31	+61 29 32.9	18.0	N	K	C23
C/2017 K2	2018 07 13.94458	17 24 04.06	+61 29 32.4	17.4	N	K	C23
C/2017 K2	2018 07 14.07045	17 24 00.16	+61 29 12.2	18.4	N		J22
C/2017 K2	2018 07 14.07734	17 23 59.95	+61 29 11.4	18.4	N		J22
C/2017 K2	2018 07 14.07963	17 23 59.91	+61 29 11.1	18.4	N		J22
C/2017 K2	2018 07 15.62155	17 23 12.34	+61 25 05.0	17.3	T		Q11
C/2017 K2	2018 07 15.62582	17 23 12.26	+61 25 04.1				Q11
C/2017 K2	2018 07 15.63012	17 23 12.07	+61 25 03.7				Q11
C/2017 K2	2018 07 15.90819	17 23 03.61	+61 24 18.2	18.9	T	K	461
C/2017 K2	2018 07 15.91305	17 23 03.49	+61 24 17.2	19.0	T	K	461
C/2017 K2	2018 07 15.91790	17 23 03.34	+61 24 16.2	18.9	T	K	461
C/2017 K2	2018 07 16.89058	17 22 33.91	+61 21 34.3	18.2	N		I72
C/2017 K2	2018 07 16.90687	17 22 33.42	+61 21 31.7	18.3	N		I72
C/2017 K2	2018 07 16.92302	17 22 32.84	+61 21 28.6	18.2	N		I72
C/2017 K2	2018 07 16.97757	17 22 31.29	+61 21 18.4	18.3	N	K	L27
C/2017 K2	2018 07 17.00111	17 22 30.52	+61 21 15.0	18.3	N	K	L27
C/2017 K2	2018 07 17.02367	17 22 29.75	+61 21 11.4	18.2	N	K	L27
C/2017 K2	2018 07 17.90053	17 22 03.69	+61 18 42.6	18.2	N		I72
C/2017 K2	2018 07 17.91669	17 22 03.21	+61 18 39.3	18.1	N		I72
C/2017 K2	2018 07 17.93507	17 22 02.72	+61 18 35.6	18.1	N		I72
C/2017 K2	2018 07 19.90888	17 21 04.71	+61 12 46.0	18.1	N	K	L27
C/2017 K2	2018 07 19.92841	17 21 04.34	+61 12 43.2	18.3	N	K	L27
C/2017 K2	2018 07 19.95082	17 21 03.71	+61 12 38.2	18.3	N	K	L27
C/2017 K2	2018 07 19.97757	17 21 02.94	+61 12 33.1	18.1	N	K	L27
C/2017 K2	2018 07 21.93883	17 20 07.27	+61 06 30.2	17.7	N	K	C23
C/2017 K2	2018 07 21.94205	17 20 07.26	+61 06 28.9	17.8	R	K	212
C/2017 K2	2018 07 21.94461	17 20 06.91	+61 06 29.7	17.8	N	K	C23
C/2017 K2	2018 07 21.95213	17 20 06.99	+61 06 28.5	18.4	R	K	212
C/2017 K2	2018 07 21.95327	17 20 06.84	+61 06 26.4	17.8	N	K	C23
C/2017 K2	2018 07 21.95403	17 20 06.85	+61 06 27.5	19.1	R		B96
C/2017 K2	2018 07 21.95730	17 20 06.77	+61 06 26.7	18.1	R		B96
C/2017 K2	2018 07 21.96220	17 20 06.63	+61 06 25.3	18.8	R		B96
C/2017 K2	2018 07 21.96246	17 20 06.69	+61 06 25.0	18.1	R	K	212
C/2017 K2	2018 07 30.94504	17 16 14.85	+60 35 34.4	18.0	N	K	C23
C/2017 K2	2018 07 30.94865	17 16 14.66	+60 35 34.6	17.8	N	K	C23
C/2017 K2	2018 07 30.95225	17 16 14.61	+60 35 32.3	17.9	N	K	C23
C/2017 K2	2018 07 31.88030	17 15 52.75	+60 32 04.8	17.9	N		K77
C/2017 K2	2018 07 31.89964	17 15 52.37	+60 32 00.3	17.7	N		K77
C/2017 K2	2018 08 03.00255	17 15 05.04	+60 23 59.5	18.0	R		B96
C/2017 K2	2018 08 03.00745	17 15 04.98	+60 23 59.3	18.2	R		B96
C/2017 K2	2018 08 03.01072	17 15 04.89	+60 23 58.3	18.5	R		B96
C/2017 K2	2018 08 03.58295	17 14 52.48	+60 21 46.2			K	D81
C/2017 K2	2018 08 03.58600	17 14 52.38	+60 21 45.2			K	D81
C/2017 K2	2018 08 03.58753	17 14 52.34	+60 21 42.8			K	D81
C/2017 K2	2018 08 03.58905	17 14 52.24	+60 21 44.2	17.7	T	K	D81
C/2017 K2	2018 08 03.88475	17 14 45.93	+60 20 34.2	18.3	N		J22
C/2017 K2	2018 08 03.88937	17 14 45.80	+60 20 33.3	18.3	N		J22
C/2017 K2	2018 08 03.89400	17 14 45.77	+60 20 33.0	18.3	N		J22
C/2017 K2	2018 08 03.96987	17 14 44.07	+60 20 14.2	18.4	T	K	461
C/2017 K2	2018 08 03.97472	17 14 43.90	+60 20 13.0	18.6	T	K	461
C/2017 K2	2018 08 04.01034	17 14 43.23	+60 20 05.9	18.3	R		B96
C/2017 K2	2018 08 04.01360	17 14 43.15	+60 20 05.6	18.6	R		B96
C/2017 K2	2018 08 04.01851	17 14 42.89	+60 20 04.2	18.6	R		B96
C/2017 K2	2018 08 04.89833	17 14 24.29	+60 16 34.6	18.3	T	K	461
C/2017 K2	2018 08 04.90323	17 14 24.22	+60 16 33.4	18.3	T	K	461
C/2017 K2	2018 08 04.90813	17 14 24.12	+60 16 32.1	18.5	T	K	461
C/2017 K2	2018 08 04.91304	17 14 24.01	+60 16 31.2	18.5	T	K	461
C/2017 K2	2018 08 05.95657	17 14 02.17	+60 12 20.5	18.1	N	K	C23
C/2017 K2	2018 08 05.95946	17 14 02.33	+60 12 19.6	17.6	N	K	C23
C/2017 K2	2018 08 05.96234	17 14 02.30	+60 12 19.4	17.8	N	K	C23
C/2017 K2	2018 08 05.96523	17 14 02.26	+60 12 18.9	17.6	N	K	C23
C/2017 K2	2018 08 05.96811	17 14 02.13	+60 12 17.6	17.8	N	K	C23
C/2017 K2	2018 08 05.97706	17 14 02.00	+60 12 16.1	18.5	N		I72
C/2017 K2	2018 08 05.99248	17 14 01.71	+60 12 12.2	18.3	N		I72

C/2017 K2	2018 08 06.00610	17 14 01.39	+60 12 08.4	16.7	R	B96
C/2017 K2	2018 08 06.00749	17 14 01.33	+60 12 09.0	18.4	N	I72
C/2017 K2	2018 08 06.01101	17 14 01.34	+60 12 07.6	18.3	R	B96
C/2017 K2	2018 08 06.01427	17 14 01.28	+60 12 06.5	19.0	R	B96
C/2017 K2	2018 08 07.03990	17 13 40.63	+60 07 56.4	18.2	R	B96
C/2017 K2	2018 08 07.04317	17 13 40.54	+60 07 56.3	18.7	R	B96
C/2017 K2	2018 08 07.04807	17 13 40.45	+60 07 56.2	18.1	R	B96
C/2017 K2	2018 08 07.94769	17 13 22.85	+60 04 14.6	18.1	N	9 G40
C/2017 K2	2018 08 07.95359	17 13 22.75	+60 04 14.2	18.4	N	I72
C/2017 K2	2018 08 07.95625	17 13 22.66	+60 04 12.7			9 G40
C/2017 K2	2018 08 07.97214	17 13 22.42	+60 04 09.5	18.6	N	I72
C/2017 K2	2018 08 08.00179	17 13 21.86	+60 04 01.3	18.6	N	I72
C/2017 K2	2018 08 08.36762	17 13 14.76	+60 02 31.4	17.6	o	T08
C/2017 K2	2018 08 08.37089	17 13 14.85	+60 02 30.4	17.8	o	T08
C/2017 K2	2018 08 08.38444	17 13 14.41	+60 02 25.5	18.3	o	T08
C/2017 K2	2018 08 08.49147	17 13 12.52	+60 02 00.8	17.7	T	Q11
C/2017 K2	2018 08 08.49573	17 13 12.41	+60 01 59.8			Q11
C/2017 K2	2018 08 08.50001	17 13 12.34	+60 01 58.4			Q11
C/2017 K2	2018 08 08.88390	17 13 05.20	+60 00 23.3	19.1	R	B96
C/2017 K2	2018 08 08.88950	17 13 05.02	+60 00 21.6	18.3	R	B96
C/2017 K2	2018 08 09.96287	17 12 45.11	+59 55 51.2	17.1	N	K I81
C/2017 K2	2018 08 09.96504	17 12 45.04	+59 55 51.0	17.1	N	K I81
C/2017 K2	2018 08 09.96721	17 12 45.01	+59 55 50.4	17.5	N	K I81
C/2017 K2	2018 08 10.88404	17 12 28.49	+59 51 58.1	18.0	N	K L27
C/2017 K2	2018 08 10.91368	17 12 28.08	+59 51 50.0	18.0	N	K L27
C/2017 K2	2018 08 10.94014	17 12 27.57	+59 51 43.4	18.1	N	K L27
C/2017 K2	2018 08 11.91485	17 12 10.56	+59 47 32.9			K 215
C/2017 K2	2018 08 11.91613	17 12 10.61	+59 47 32.6	18.5	R	K 215
C/2017 K2	2018 08 11.91742	17 12 10.65	+59 47 32.3	18.7	R	K 215
C/2017 K2	2018 08 12.85789	17 11 54.82	+59 43 29.5	18.4	N	K A77
C/2017 K2	2018 08 12.86753	17 11 54.73	+59 43 27.1	18.4	N	K A77
C/2017 K2	2018 08 12.87737	17 11 54.63	+59 43 24.6	18.5	N	K A77
C/2017 K2	2018 08 14.87392	17 11 22.77	+59 34 40.5	18.3	N	I72
C/2017 K2	2018 08 14.89324	17 11 22.48	+59 34 35.7	18.3	N	I72
C/2017 K2	2018 08 14.91237	17 11 22.15	+59 34 30.6	18.3	N	I72
C/2017 K2	2018 08 17.53885	17 10 43.92	+59 22 46.2	17.6	T	349
C/2017 K2	2018 08 17.55642	17 10 43.62	+59 22 41.9			349
C/2017 K2	2018 08 17.87795	17 10 39.34	+59 21 15.4	17.6	N	C23
C/2017 K2	2018 08 17.88517	17 10 39.16	+59 21 12.8	17.6	N	C23
C/2017 K2	2018 08 17.89239	17 10 38.96	+59 21 09.0	17.3	N	C23
C/2017 K2	2018 08 17.93734	17 10 38.35	+59 20 59.3	18.3	R	B96
C/2017 K2	2018 08 17.94225	17 10 38.30	+59 20 58.1	18.5	R	B96
C/2017 K2	2018 08 17.94551	17 10 38.21	+59 20 55.0	19.0	R	B96
C/2017 K2	2018 08 20.83938	17 10 01.49	+59 07 42.8	19.0	N	K 461
C/2017 K2	2018 08 20.84643	17 10 01.38	+59 07 40.7	19.0	N	K 461
C/2017 K2	2018 08 20.85348	17 10 01.32	+59 07 38.9	18.9	N	K 461
C/2017 K2	2018 08 20.94817	17 10 00.29	+59 07 11.9	17.3	N	K 970
C/2017 K2	2018 08 20.95123	17 10 00.26	+59 07 11.3	17.8	N	K 970
C/2017 K2	2018 08 26.90073	17 09 00.45	+58 39 11.9	18.4	N	K L27
C/2017 K2	2018 08 26.95491	17 08 59.98	+58 38 57.2	18.4	N	K L27
C/2017 K2	2018 08 28.86620	17 08 45.00	+58 29 47.1	18.4	N	J22
C/2017 K2	2018 08 28.87089	17 08 45.03	+58 29 46.2	18.4	N	J22
C/2017 K2	2018 08 28.87552	17 08 45.05	+58 29 43.8	18.4	N	J22
C/2017 K2	2018 08 29.90954	17 08 37.74	+58 24 43.6	17.9	N	K L27
C/2017 K2	2018 08 29.93799	17 08 37.51	+58 24 36.0	17.9	N	K L27
C/2017 K2	2018 08 29.95966	17 08 37.28	+58 24 29.3	18.0	N	K L27
C/2017 K2	2018 08 30.31690	17 08 35.09	+58 22 44.8	17.5	o	T05
C/2017 K2	2018 08 30.32580	17 08 35.03	+58 22 43.1	17.8	o	T05
C/2017 K2	2018 08 30.32809	17 08 35.01	+58 22 41.6	17.8	o	T05
C/2017 K2	2018 08 30.33792	17 08 34.95	+58 22 39.6	17.5	o	T05
C/2017 K2	2018 08 31.81204	17 08 26.35	+58 15 29.2	18.8	T	K 461
C/2017 K2	2018 08 31.81855	17 08 26.34	+58 15 27.2	19.0	T	K 461
C/2017 K2	2018 08 31.82507	17 08 26.27	+58 15 25.4	18.7	T	K 461
C/2017 K2	2018 08 31.84043	17 08 26.21	+58 15 20.6	17.8	N	K C23
C/2017 K2	2018 08 31.84620	17 08 26.29	+58 15 18.3	17.6	N	K C23
C/2017 K2	2018 08 31.85197	17 08 25.92	+58 15 17.9	17.5	N	K C23
C/2017 K2	2018 08 31.85422	17 08 26.22	+58 15 17.1	18.0	R	B96
C/2017 K2	2018 08 31.85750	17 08 26.19	+58 15 15.2	18.2	R	B96
C/2017 K2	2018 08 31.86240	17 08 26.16	+58 15 13.7	18.2	R	B96
C/2017 K2	2018 09 01.84497	17 08 21.02	+58 10 26.2	17.9	R	B96
C/2017 K2	2018 09 01.84986	17 08 20.95	+58 10 24.4	18.2	R	B96
C/2017 K2	2018 09 01.85314	17 08 20.86	+58 10 23.7	18.4	R	B96
C/2017 K2	2018 09 01.86465	17 08 20.81	+58 10 20.1	18.4	N	K L27
C/2017 K2	2018 09 01.88846	17 08 20.79	+58 10 17.5	18.5	N	K I81
C/2017 K2	2018 09 01.89063	17 08 20.76	+58 10 13.8	17.1	N	K I81
C/2017 K2	2018 09 01.89280	17 08 20.71	+58 10 12.3	17.0	N	K I81
C/2017 K2	2018 09 01.90130	17 08 20.70	+58 10 09.4	18.3	N	K L27
C/2017 K2	2018 09 02.84322	17 08 16.50	+58 05 32.0	18.5	R	B96
C/2017 K2	2018 09 02.84813	17 08 16.39	+58 05 31.7	18.3	R	B96
C/2017 K2	2018 09 02.85139	17 08 16.13	+58 05 29.3	18.1	R	B96
C/2017 K2	2018 09 03.30453	17 08 14.33	+58 03 16.6	17.7	o	T05
C/2017 K2	2018 09 03.31294	17 08 14.50	+58 03 14.5	18.6	o	T05
C/2017 K2	2018 09 03.32227	17 08 14.35	+58 03 11.1	17.7	o	T05
C/2017 K2	2018 09 03.32550	17 08 14.46	+58 03 09.8	18.6	o	T05
C/2017 K2	2018 09 03.32917	17 08 14.38	+58 03 09.8	17.7	o	T05
C/2017 K2	2018 09 03.33379	17 08 14.10	+58 03 07.2	17.5	o	T05
C/2017 K2	2018 09 11.28687	17 08 00.37	+57 23 42.1	17.8	o	T05
C/2017 K2	2018 09 11.30804	17 08 00.51	+57 23 35.8	17.6	o	T05
C/2017 K2	2018 09 11.32433	17 08 00.41	+57 23 30.9	17.7	o	T05
C/2017 K2	2018 09 11.82281	17 08 00.79	+57 21 01.9	18.3	N	K77
C/2017 K2	2018 09 11.87201	17 08 00.95	+57 20 46.9	18.2	N	K77
C/2017 K2	2018 09 13.28066	17 08 02.60	+57 13 46.0	18.2	o	T08
C/2017 K2	2018 09 13.29088	17 08 02.45	+57 13 42.3	18.6	o	T08
C/2017 K2	2018 09 13.29229	17 08 02.38	+57 13 42.5	18.2	o	T08
C/2017 K2	2018 09 13.29599	17 08 02.41	+57 13 40.8	18.7	o	T08
C/2017 K2	2018 09 13.29785	17 08 02.57	+57 13 40.3	18.4	o	T08
C/2017 K2	2018 09 13.29972	17 08 02.59	+57 13 39.4	17.8	o	T08
C/2017 K2	2018 09 13.30392	17 08 02.46	+57 13 39.1	17.9	o	T08
C/2017 K2	2018 09 13.30577	17 08 02.48	+57 13 38.1	18.2	o	T08
C/2017 K2	2018 09 13.31744	17 08 02.67	+57 13 34.3	18.4	o	T08
C/2017 K2	2018 09 13.31836	17 08 02.58	+57 13 34.3	18.4	o	T08
C/2017 K2	2018 09 15.29118	17 08 06.98	+57 03 43.6	18.2	c	T05
C/2017 K2	2018 09 15.30026	17 08 06.95	+57 03 42.9	18.7	c	T05
C/2017 K2	2018 09 15.30935	17 08 06.96	+57 03 38.7	18.5	c	T05
C/2017 K2	2018 09 15.31792	17 08 06.92	+57 03 36.1	18.3	c	T05
C/2017 K2	2018 09 19.28510	17 08 21.98	+56 43 50.3	18.8	o	T05

C/2017 K2	2018 09 19.29350	17 08 22.13	+56 43 47.1	18.9	o		T05
C/2017 K2	2018 09 19.30192	17 08 22.12	+56 43 45.3	17.6	o		T05
C/2017 K2	2018 09 19.30987	17 08 22.18	+56 43 42.8	18.8	o		T05

C/2017 K4 (ATLAS)

C/2017 K4	2018 05 26.73910	00 17 07.31	+14 48 32.0				349
C/2017 K4	2018 05 26.74287	00 17 07.61	+14 48 35.1	17.0	T		349
C/2017 K4	2018 06 13.42607	00 36 48.05	+18 23 29.5	15.9	G		703
C/2017 K4	2018 06 13.43575	00 36 48.62	+18 23 34.7	16.1	G		703
C/2017 K4	2018 06 13.44059	00 36 48.99	+18 23 36.9	16.1	G		703
C/2017 K4	2018 06 19.08864	00 42 23.91	+19 28 48.4	17.8	N	K	160
C/2017 K4	2018 06 19.09089	00 42 24.05	+19 28 50.1	18.4	N	K	160
C/2017 K4	2018 06 19.09314	00 42 24.08	+19 28 50.2	17.5	N	K	160
C/2017 K4	2018 06 20.02256	00 43 17.07	+19 39 23.4	18.0		K	215
C/2017 K4	2018 06 20.02385	00 43 17.14	+19 39 24.5	18.1		K	215
C/2017 K4	2018 06 20.02513	00 43 17.22	+19 39 25.6	17.9		K	215
C/2017 K4	2018 06 24.10173	00 47 01.53	+20 25 01.5	17.9	N	K	160
C/2017 K4	2018 06 24.10417	00 47 01.70	+20 25 04.0	18.3	N	K	160
C/2017 K4	2018 06 24.10661	00 47 01.78	+20 25 06.1	18.5	N	K	160
C/2017 K4	2018 07 03.03940	00 54 28.09	+22 01 18.2	18.5	R	K	B96
C/2017 K4	2018 07 03.04430	00 54 28.35	+22 01 22.5	18.4	R	K	B96
C/2017 K4	2018 07 03.40097	00 54 44.50	+22 05 04.8	16.6	G		703
C/2017 K4	2018 07 03.40581	00 54 44.79	+22 05 06.7	16.8	G		703
C/2017 K4	2018 07 03.41548	00 54 45.33	+22 05 14.1	17.0	G		703
C/2017 K4	2018 07 14.08994	01 02 04.26	+23 52 29.0	18.1	N		J22
C/2017 K4	2018 07 14.09583	01 02 04.42	+23 52 30.4	18.1	N		J22
C/2017 K4	2018 07 15.75826	01 03 02.87	+24 08 25.8	17.6	T		Q11
C/2017 K4	2018 07 15.76541	01 03 03.12	+24 08 30.3				Q11
C/2017 K4	2018 07 15.76899	01 03 03.25	+24 08 32.3				Q11
C/2017 K4	2018 07 16.98619	01 03 44.71	+24 19 55.6	18.0	N		K77
C/2017 K4	2018 07 16.99197	01 03 44.85	+24 20 03.9	18.3	N		K77
C/2017 K4	2018 07 20.73306	01 05 41.44	+24 54 32.6	17.2	T		349
C/2017 K4	2018 07 20.74205	01 05 41.72	+24 54 37.2				349
C/2017 K4	2018 07 23.02547	01 06 45.98	+25 14 59.8	17.9	R	K	628
C/2017 K4	2018 07 23.05188	01 06 46.68	+25 15 14.1	18.3	R	K	628
C/2017 K4	2018 07 23.07832	01 06 47.34	+25 15 28.3	18.0	R	K	628
C/2017 K4	2018 07 29.70078	01 09 21.31	+26 11 46.2			K	D81
C/2017 K4	2018 07 29.70459	01 09 21.43	+26 11 48.3			K	D81
C/2017 K4	2018 07 29.70841	01 09 21.50	+26 11 49.7			K	D81
C/2017 K4	2018 07 29.71223	01 09 21.56	+26 11 51.6	17.9	T	K	D81
C/2017 K4	2018 08 02.00388	01 10 20.03	+26 38 09.0	17.9	R	K	628
C/2017 K4	2018 08 02.03378	01 10 20.52	+26 38 23.4	18.4	R	K	628
C/2017 K4	2018 08 02.06372	01 10 20.92	+26 38 37.5	18.2	R	K	628
C/2017 K4	2018 08 02.09358	01 10 21.39	+26 38 51.6	18.2	R	K	628
C/2017 K4	2018 08 07.99797	01 11 34.33	+27 22 53.6	17.1	N		I81
C/2017 K4	2018 08 08.00231	01 11 34.36	+27 22 55.7	17.3	N		I81
C/2017 K4	2018 08 08.00723	01 11 34.45	+27 22 58.1	17.5	N		I81
C/2017 K4	2018 08 08.06942	01 11 34.96	+27 23 25.2	17.9	N		I72
C/2017 K4	2018 08 08.07860	01 11 35.04	+27 23 28.2	17.9	N		I72
C/2017 K4	2018 08 08.08787	01 11 35.12	+27 23 32.9	18.0	N		I72
C/2017 K4	2018 08 08.74718	01 11 40.59	+27 28 12.2			K	Q11
C/2017 K4	2018 08 08.75430	01 11 40.66	+27 28 15.0			K	Q11
C/2017 K4	2018 08 08.76142	01 11 40.70	+27 28 18.5	17.8	T	K	Q11
C/2017 K4	2018 08 09.98496	01 11 49.65	+27 36 46.4	17.5	N		I81
C/2017 K4	2018 08 09.98930	01 11 49.71	+27 36 48.0	17.8	N		I81
C/2017 K4	2018 08 09.99219	01 11 49.72	+27 36 49.5	17.6	N		I81
C/2017 K4	2018 08 12.01713	01 12 00.44	+27 50 26.7	18.2	R	K	628
C/2017 K4	2018 08 12.06023	01 12 00.60	+27 50 44.4	18.1	R	K	628
C/2017 K4	2018 08 13.11531	01 12 04.18	+27 57 37.1	18.1	N		I72
C/2017 K4	2018 08 13.13170	01 12 04.19	+27 57 43.5	17.9	N		I72
C/2017 K4	2018 08 13.14965	01 12 04.23	+27 57 49.8	17.9	N		I72
C/2017 K4	2018 08 16.92291	01 12 06.23	+28 21 08.3	17.6	R	K	628
C/2017 K4	2018 08 16.95874	01 12 06.31	+28 21 21.5	18.1	R	K	628
C/2017 K4	2018 08 16.99452	01 12 06.09	+28 21 34.9	18.5	R	K	628
C/2017 K4	2018 08 18.05970	01 12 03.43	+28 27 47.6	20.5	R		B96
C/2017 K4	2018 08 18.06461	01 12 03.45	+28 27 50.1	20.3	R		B96
C/2017 K4	2018 08 18.06787	01 12 03.47	+28 27 49.5	18.3	R		B96
C/2017 K4	2018 08 21.21373	01 11 47.91	+28 45 14.1	18.4	N		J22
C/2017 K4	2018 08 21.21569	01 11 47.87	+28 45 14.5	18.4	N		J22
C/2017 K4	2018 08 21.21964	01 11 47.81	+28 45 15.4	18.4	N		J22
C/2017 K4	2018 08 22.96129	01 11 34.53	+28 54 12.3	18.9	V	K	A71
C/2017 K4	2018 08 22.97593	01 11 34.38	+28 54 17.3	19.2	V	K	A71
C/2017 K4	2018 08 25.73241	01 11 05.79	+29 07 31.4	17.5	T		349
C/2017 K4	2018 08 25.74425	01 11 05.61	+29 07 34.3				349
C/2017 K4	2018 08 31.57225	01 09 37.88	+29 31 30.9	18.5	o		T08
C/2017 K4	2018 08 31.58369	01 09 37.63	+29 31 34.2	18.4	o		T08
C/2017 K4	2018 08 31.58516	01 09 37.59	+29 31 34.5	18.4	o		T08
C/2017 K4	2018 08 31.60095	01 09 37.26	+29 31 37.0	18.3	o		T08
C/2017 K4	2018 09 01.86021	01 09 13.77	+29 35 59.9	18.2	R	K	628
C/2017 K4	2018 09 01.90793	01 09 12.85	+29 36 10.2	18.4	R	K	628
C/2017 K4	2018 09 01.95573	01 09 11.85	+29 36 19.8	18.6	R	K	628
C/2017 K4	2018 09 01.96151	01 09 11.72	+29 36 20.6	17.8	N	K	I81
C/2017 K4	2018 09 01.96369	01 09 11.70	+29 36 21.0	17.9	N	K	I81
C/2017 K4	2018 09 01.96586	01 09 11.69	+29 36 21.9	18.1	N	K	I81
C/2017 K4	2018 09 03.99734	01 08 29.96	+29 42 54.2	18.5	N		J22
C/2017 K4	2018 09 04.00147	01 08 29.73	+29 42 53.9	18.5	N		J22
C/2017 K4	2018 09 04.00343	01 08 29.57	+29 42 53.6	18.5	N		J22
C/2017 K4	2018 09 04.55960	01 08 17.29	+29 44 31.0	18.7	o		T08
C/2017 K4	2018 09 04.56057	01 08 17.16	+29 44 32.2	18.9	o		T08
C/2017 K4	2018 09 04.56949	01 08 16.99	+29 44 35.3	18.2	o		T08
C/2017 K4	2018 09 04.57849	01 08 16.59	+29 44 33.4	17.6	o		T08
C/2017 K4	2018 09 05.90473	01 07 46.63	+29 48 16.6	18.2	R	K	215
C/2017 K4	2018 09 05.90601	01 07 46.61	+29 48 17.1	18.1	R	K	215
C/2017 K4	2018 09 05.90729	01 07 46.58	+29 48 17.5	18.2	R	K	215
C/2017 K4	2018 09 06.00350	01 07 44.28	+29 48 32.8	17.9	N		I81
C/2017 K4	2018 09 06.00785	01 07 44.09	+29 48 33.8	18.1	N		I81
C/2017 K4	2018 09 06.01074	01 07 44.04	+29 48 33.4	17.7	N		I81
C/2017 K4	2018 09 06.56975	01 07 30.63	+29 50 03.8	18.7	o		T05
C/2017 K4	2018 09 06.57066	01 07 30.56	+29 50 02.5	17.9	o		T05
C/2017 K4	2018 09 06.58751	01 07 30.17	+29 50 06.8	18.8	o		T05
C/2017 K4	2018 09 06.59264	01 07 30.01	+29 50 07.0	18.3	o		T05
C/2017 K4	2018 09 10.53879	01 05 47.73	+29 58 41.1	17.9	o		T05
C/2017 K4	2018 09 10.55835	01 05 47.28	+29 58 47.4	18.1	o		T05
C/2017 K4	2018 09 10.56038	01 05 47.20	+29 58 47.4	18.7	o		T05
C/2017 K4	2018 09 10.57830	01 05 46.66	+29 58 49.0	18.2	o		T05
C/2017 K4	2018 09 11.90393	01 05 09.55	+30 01 01.0	17.4	N	K	I81

C/2017 K4	2018 09 11.90610	01 05 09.53	+30 00 58.4	16.8	N	K	I81
C/2017 K4	2018 09 11.90827	01 05 09.43	+30 01 00.7	17.5	N	K	I81
C/2017 K4	2018 09 14.06908	01 04 05.50	+30 03 59.7	18.0	N	K	C23
C/2017 K4	2018 09 14.07197	01 04 05.42	+30 04 00.4	18.1	N	K	C23
C/2017 K4	2018 09 14.07630	01 04 05.24	+30 04 00.0	18.2	N	K	C23
C/2017 K4	2018 09 14.54817	01 03 50.82	+30 04 33.2	19.3	c		T05
C/2017 K4	2018 09 14.54908	01 03 50.77	+30 04 33.0	19.1	c		T05
C/2017 K4	2018 09 14.55845	01 03 50.53	+30 04 33.9	18.6	c		T05
C/2017 K4	2018 09 14.56917	01 03 50.19	+30 04 33.1	18.4	c		T05
C/2017 K4	2018 09 14.58516	01 03 49.77	+30 04 34.9	19.0	c		T05
C/2017 K4	2018 09 14.59020	01 03 49.46	+30 04 36.7	19.0	c		T05
C/2017 K4	2018 09 15.01152	01 03 36.70	+30 04 59.5	18.1	N	K	I81
C/2017 K4	2018 09 15.01370	01 03 36.63	+30 04 59.7	17.8	N	K	I81
C/2017 K4	2018 09 15.01587	01 03 36.55	+30 04 59.9	17.6	N	K	I81
C/2017 K4	2018 09 16.52651	01 02 48.96	+30 06 18.3	18.1	o		T08
C/2017 K4	2018 09 16.52802	01 02 48.82	+30 06 15.3	17.6	o		T08
C/2017 K4	2018 09 16.54570	01 02 48.29	+30 06 15.7	18.1	o		T08
C/2017 K4	2018 09 16.54816	01 02 48.26	+30 06 19.0	18.8	o		T08
C/2017 K4	2018 09 17.83314	01 02 06.94	+30 07 00.6	18.1	R	K	628
C/2017 K4	2018 09 17.87930	01 02 05.35	+30 07 02.7	18.3	R	K	628
C/2017 K4	2018 09 17.92522	01 02 03.78	+30 07 04.1	18.3	R	K	628
C/2017 K4	2018 09 18.52263	01 01 43.93	+30 07 19.4	18.8	o		T05
C/2017 K4	2018 09 18.53321	01 01 43.58	+30 07 20.1	18.9	o		T05
C/2017 K4	2018 09 18.54984	01 01 42.98	+30 07 20.5	18.7	o		T05
C/2017 K4	2018 09 18.55594	01 01 42.77	+30 07 20.0	18.8	o		T05

C/2017 K6 (Jacques)

C/2017 K6	2018 02 10.06926	02 35 43.76	−16 23 31.9	15.6	N	14	W88
C/2017 K6	2018 02 10.07014	02 35 43.82	−16 23 30.0	15.7	N	14	W88
C/2017 K6	2018 02 10.07105	02 35 43.96	−16 23 28.2	15.5	N	14	W88
C/2017 K6	2018 08 24.46678	07 36 53.66	+37 20 32.8			32	H06
C/2017 K6	2018 08 24.46918	07 36 53.82	+37 20 33.6	18.1	G	32	H06

C/2017 M4 (ATLAS)

C/2017 M4	2018 03 28.66725	19 39 33.47	+41 12 49.6			K	D81
C/2017 M4	2018 03 28.67488	19 39 33.58	+41 12 52.2			K	D81
C/2017 M4	2018 03 28.68251	19 39 33.51	+41 12 54.9			K	D81
C/2017 M4	2018 03 28.69014	19 39 33.32	+41 12 56.7	15.4	T	K	D81
C/2017 M4	2018 05 07.33908	19 17 05.75	+45 23 44.9	14.8	R		H47
C/2017 M4	2018 05 07.34300	19 17 05.43	+45 23 47.8	15.9	R		H47
C/2017 M4	2018 05 07.34611	19 17 05.21	+45 23 49.1	16.1	R		H47
C/2017 M4	2018 05 08.36597	19 15 53.34	+45 29 22.1	16.4	R	K	H47
C/2017 M4	2018 05 08.38056	19 15 52.31	+45 29 26.9	15.9	R	K	H47
C/2017 M4	2018 05 08.39311	19 15 51.40	+45 29 31.0	15.9	R	K	H47
C/2017 M4	2018 05 09.19899	19 14 53.11	+45 33 48.2	15.7	N		J22
C/2017 M4	2018 05 09.20284	19 14 52.86	+45 33 49.6	15.7	N		J22
C/2017 M4	2018 05 09.20666	19 14 52.61	+45 33 50.8	15.7	N		J22
C/2017 M4	2018 05 10.35145	19 13 27.50	+45 39 46.0	15.9	R		H47
C/2017 M4	2018 05 10.35425	19 13 27.30	+45 39 46.9	15.9	R		H47
C/2017 M4	2018 05 10.35653	19 13 27.12	+45 39 47.5	15.9	R		H47
C/2017 M4	2018 05 10.36060	19 13 26.80	+45 39 48.7	15.9	R		H47
C/2017 M4	2018 05 11.36124	19 12 10.21	+45 44 49.7	15.8	R	K	H47
C/2017 M4	2018 05 11.36715	19 12 09.75	+45 44 51.3	15.6	R	K	H47
C/2017 M4	2018 05 11.37192	19 12 09.37	+45 44 52.8	15.7	R	K	H47
C/2017 M4	2018 05 12.38457	19 10 49.91	+45 49 48.2	15.0	R		H47
C/2017 M4	2018 05 12.38912	19 10 49.37	+45 49 49.0	15.8	R		H47
C/2017 M4	2018 05 12.39164	19 10 49.18	+45 49 49.6	15.6	R		H47
C/2017 M4	2018 05 12.39536	19 10 48.86	+45 49 50.5	15.6	R		H47
C/2017 M4	2018 05 14.50715	19 07 56.18	+45 59 28.5				D95
C/2017 M4	2018 05 14.51470	19 07 55.56	+45 59 30.9				D95
C/2017 M4	2018 05 14.52333	19 07 54.84	+45 59 33.2	15.1	T		D95
C/2017 M4	2018 05 19.75842	19 00 07.03	+46 19 38.5			K	367
C/2017 M4	2018 05 19.76004	19 00 06.88	+46 19 38.7			K	367
C/2017 M4	2018 05 19.76328	19 00 06.56	+46 19 39.5	15.0	T	K	367
C/2017 M4	2018 05 21.96058	18 56 34.25	+46 26 09.9	15.6	N		J22
C/2017 M4	2018 05 21.96253	18 56 34.11	+46 26 10.8	15.6	N		J22
C/2017 M4	2018 05 21.96449	18 56 33.92	+46 26 11.5	15.6	N		J22
C/2017 M4	2018 05 22.52811	18 55 37.87	+46 27 39.5				D95
C/2017 M4	2018 05 22.53242	18 55 37.47	+46 27 40.3				D95
C/2017 M4	2018 05 22.53565	18 55 37.14	+46 27 40.4	14.5	T		D95
C/2017 M4	2018 05 22.71175	18 55 19.32	+46 28 08.4	14.6	T		349
C/2017 M4	2018 05 22.71780	18 55 18.72	+46 28 09.4				349
C/2017 M4	2018 05 22.72388	18 55 18.11	+46 28 10.1				349
C/2017 M4	2018 05 26.75205	18 48 19.16	+46 35 54.3			K	367
C/2017 M4	2018 05 26.75367	18 48 19.00	+46 35 54.5			K	367
C/2017 M4	2018 05 26.75530	18 48 18.82	+46 35 54.6	14.6	T	K	367
C/2017 M4	2018 05 26.99282	18 47 53.34	+46 36 12.6	17.4	N	K	K87
C/2017 M4	2018 05 27.00334	18 47 52.18	+46 36 13.6	17.2	N	K	K87
C/2017 M4	2018 05 27.01912	18 47 50.44	+46 36 14.7	17.4	N	K	K87
C/2017 M4	2018 05 28.50501	18 45 07.92	+46 37 45.3	15.3	o		T08
C/2017 M4	2018 05 28.51276	18 45 07.22	+46 37 44.6	13.3	T		D95
C/2017 M4	2018 05 28.51464	18 45 06.84	+46 37 45.5	15.3	o		T08
C/2017 M4	2018 05 28.51923	18 45 06.48	+46 37 45.2				D95
C/2017 M4	2018 05 28.53300	18 45 04.93	+46 37 45.4				D95
C/2017 M4	2018 05 28.53443	18 45 04.61	+46 37 47.0	15.9	o		T08
C/2017 M4	2018 05 28.58853	18 44 58.79	+46 37 48.8				Q23
C/2017 M4	2018 05 28.59443	18 44 58.11	+46 37 49.5				Q23
C/2017 M4	2018 05 28.60715	18 44 56.70	+46 37 50.0	14.8	T		Q23
C/2017 M4	2018 05 29.00618	18 44 12.23	+46 38 05.7	15.3	N		585
C/2017 M4	2018 05 29.00689	18 44 12.15	+46 38 05.9	15.2	N		585
C/2017 M4	2018 05 29.00760	18 44 12.08	+46 38 05.7	15.2	N		585
C/2017 M4	2018 05 29.00831	18 44 12.02	+46 38 05.4	15.3	N		585
C/2017 M4	2018 05 29.00902	18 44 11.92	+46 38 05.8	15.3	N		585
C/2017 M4	2018 05 29.00972	18 44 11.84	+46 38 05.9	15.4	N		585
C/2017 M4	2018 05 29.01043	18 44 11.78	+46 38 05.9	15.5	N		585
C/2017 M4	2018 05 29.01114	18 44 11.69	+46 38 05.9	15.3	N		585
C/2017 M4	2018 05 29.01185	18 44 11.61	+46 38 05.5	15.5	N		585
C/2017 M4	2018 05 29.01260	18 44 11.52	+46 38 05.5	15.3	N		585
C/2017 M4	2018 05 29.01340	18 44 11.43	+46 38 05.8	15.3	N		585
C/2017 M4	2018 05 29.01482	18 44 11.25	+46 38 06.0	15.4	N		585
C/2017 M4	2018 05 29.01555	18 44 11.20	+46 38 05.8	15.4	N		585
C/2017 M4	2018 05 29.01628	18 44 11.13	+46 38 06.0	15.3	N		585
C/2017 M4	2018 05 29.01699	18 44 11.03	+46 38 05.9	15.3	N		585
C/2017 M4	2018 05 29.01841	18 44 10.89	+46 38 06.0	15.2	N		585
C/2017 M4	2018 05 31.95995	18 38 36.03	+46 38 25.6	15.3	N		585
C/2017 M4	2018 05 31.96066	18 38 35.93	+46 38 25.5	15.2	N		585
C/2017 M4	2018 05 31.96137	18 38 35.86	+46 38 25.7	15.3	N		585

C/2017 M4	2018 05 31.96208	18 38 35.79	+46 38 25.6	15.3	N	585
C/2017 M4	2018 05 31.96279	18 38 35.69	+46 38 25.6	15.3	N	585
C/2017 M4	2018 05 31.96349	18 38 35.62	+46 38 25.6	15.3	N	585
C/2017 M4	2018 05 31.96420	18 38 35.54	+46 38 25.7	15.3	N	585
C/2017 M4	2018 05 31.96491	18 38 35.45	+46 38 25.6	15.3	N	585
C/2017 M4	2018 05 31.96562	18 38 35.37	+46 38 25.6	15.4	N	585
C/2017 M4	2018 05 31.96633	18 38 35.28	+46 38 25.8	15.3	N	585
C/2017 M4	2018 05 31.96703	18 38 35.20	+46 38 25.7	15.3	N	585
C/2017 M4	2018 05 31.96774	18 38 35.09	+46 38 25.7	15.3	N	585
C/2017 M4	2018 05 31.96845	18 38 35.02	+46 38 25.3	15.2	N	585
C/2017 M4	2018 05 31.96916	18 38 34.94	+46 38 25.7	15.1	N	585
C/2017 M4	2018 05 31.96987	18 38 34.86	+46 38 25.5	15.2	N	585
C/2017 M4	2018 05 31.97058	18 38 34.76	+46 38 25.4	15.1	N	585
C/2017 M4	2018 05 31.97129	18 38 34.68	+46 38 25.5	15.2	N	585
C/2017 M4	2018 05 31.97199	18 38 34.60	+46 38 25.6	15.1	N	585
C/2017 M4	2018 05 31.97270	18 38 34.50	+46 38 25.6	15.1	N	585
C/2017 M4	2018 06 01.50230	18 37 32.80	+46 38 10.3	15.3	o	T08
C/2017 M4	2018 06 01.50955	18 37 31.95	+46 38 10.2	15.2	o	T08
C/2017 M4	2018 06 01.52524	18 37 30.11	+46 38 09.8	15.3	o	T08
C/2017 M4	2018 06 01.53624	18 37 28.78	+46 38 09.4	15.2	o	T08
C/2017 M4	2018 06 01.89445	18 36 46.97	+46 37 53.8	15.5	N	213
C/2017 M4	2018 06 01.89611	18 36 46.78	+46 37 53.7	15.5	N	213
C/2017 M4	2018 06 01.90605	18 36 45.71	+46 37 51.5	15.1	N	213
C/2017 M4	2018 06 02.44250	18 35 42.15	+46 37 26.4	14.4	G	703
C/2017 M4	2018 06 02.44748	18 35 41.56	+46 37 26.3	14.4	G	703
C/2017 M4	2018 06 02.45246	18 35 40.95	+46 37 26.1	14.4	G	703
C/2017 M4	2018 06 02.45744	18 35 40.37	+46 37 25.9	14.4	G	703
C/2017 M4	2018 06 02.49266	18 35 36.42	+46 37 23.4		K	D81
C/2017 M4	2018 06 02.49649	18 35 35.95	+46 37 22.6		K	D81
C/2017 M4	2018 06 02.50031	18 35 35.53	+46 37 23.8		K	D81
C/2017 M4	2018 06 02.50413	18 35 35.11	+46 37 22.8	14.6	T	D81
C/2017 M4	2018 06 02.948507	18 34 42.25	+46 36 55.1	16.2	N	K Z80
C/2017 M4	2018 06 02.949722	18 34 42.12	+46 36 55.4	15.9	N	K Z80
C/2017 M4	2018 06 02.950937	18 34 41.99	+46 36 55.2	15.8	N	K Z80
C/2017 M4	2018 06 02.952146	18 34 41.74	+46 36 54.5	15.7	N	K Z80
C/2017 M4	2018 06 02.953356	18 34 41.65	+46 36 54.1	15.8	N	K Z80
C/2017 M4	2018 06 02.954572	18 34 41.57	+46 36 54.9			K Z80
C/2017 M4	2018 06 02.955787	18 34 41.39	+46 36 54.5			K Z80
C/2017 M4	2018 06 02.956995	18 34 41.26	+46 36 54.7			K Z80
C/2017 M4	2018 06 02.958206	18 34 41.04	+46 36 54.4			K Z80
C/2017 M4	2018 06 03.00523	18 34 35.46	+46 36 51.7	15.5	N	K02
C/2017 M4	2018 06 03.01141	18 34 34.71	+46 36 51.4	15.5	N	K02
C/2017 M4	2018 06 03.01919	18 34 33.80	+46 36 50.9	15.5	N	K02
C/2017 M4	2018 06 03.90373	18 32 47.98	+46 35 40.7	15.8	N	K 628
C/2017 M4	2018 06 03.93878	18 32 43.74	+46 35 37.7	15.9	N	K 628
C/2017 M4	2018 06 03.97391	18 32 39.48	+46 35 34.7	15.8	N	K 628
C/2017 M4	2018 06 04.38536	18 31 49.78	+46 34 55.6	14.6	G	G96
C/2017 M4	2018 06 04.39067	18 31 49.11	+46 34 55.0	14.7	G	G96
C/2017 M4	2018 06 04.39597	18 31 48.46	+46 34 54.5	14.6	G	G96
C/2017 M4	2018 06 04.40130	18 31 47.81	+46 34 53.9	14.6	G	G96
C/2017 M4	2018 06 04.88647	18 30 49.05	+46 34 02.1	15.3	N	C23
C/2017 M4	2018 06 04.88946	18 30 48.78	+46 34 02.1	15.7	N	C23
C/2017 M4	2018 06 04.89171	18 30 48.49	+46 34 01.9	15.7	N	C23
C/2017 M4	2018 06 04.95412	18 30 40.85	+46 33 55.8	16.0	R	B96
C/2017 M4	2018 06 04.95575	18 30 40.69	+46 33 55.7	16.0	R	B96
C/2017 M4	2018 06 04.95738	18 30 40.51	+46 33 55.5	16.0	R	B96
C/2017 M4	2018 06 04.95903	18 30 40.30	+46 33 55.4	16.0	R	B96
C/2017 M4	2018 06 04.96066	18 30 40.11	+46 33 55.3	16.0	R	B96
C/2017 M4	2018 06 04.96229	18 30 39.92	+46 33 54.9	16.0	R	B96
C/2017 M4	2018 06 04.96515	18 30 39.65	+46 33 55.1	15.5	N	J22
C/2017 M4	2018 06 04.96709	18 30 39.41	+46 33 54.5	15.5	N	J22
C/2017 M4	2018 06 04.97297	18 30 38.66	+46 33 54.0	15.5	N	J22
C/2017 M4	2018 06 05.91464	18 28 43.51	+46 31 56.2	15.8	R	B96
C/2017 M4	2018 06 05.91703	18 28 43.20	+46 31 55.8	15.6	N	213
C/2017 M4	2018 06 05.91954	18 28 42.87	+46 31 55.6	15.8	R	B96
C/2017 M4	2018 06 05.92291	18 28 42.46	+46 31 55.4	15.8	R	B96
C/2017 M4	2018 06 05.92903	18 28 41.70	+46 31 54.1	15.6	N	213
C/2017 M4	2018 06 05.94105	18 28 40.19	+46 31 52.7	15.6	N	213
C/2017 M4	2018 06 07.01330	18 26 27.68	+46 29 13.0	14.6	N	585
C/2017 M4	2018 06 07.01400	18 26 27.58	+46 29 12.7	14.6	N	585
C/2017 M4	2018 06 07.01472	18 26 27.48	+46 29 12.5	14.7	N	585
C/2017 M4	2018 06 07.01543	18 26 27.39	+46 29 12.4	14.6	N	585
C/2017 M4	2018 06 07.01615	18 26 27.31	+46 29 12.4	14.7	N	585
C/2017 M4	2018 06 07.01685	18 26 27.24	+46 29 12.4	14.7	N	585
C/2017 M4	2018 06 07.01756	18 26 27.12	+46 29 12.1	14.8	N	585
C/2017 M4	2018 06 07.01826	18 26 27.05	+46 29 12.0	14.7	N	585
C/2017 M4	2018 06 07.01898	18 26 26.95	+46 29 11.8	14.8	N	585
C/2017 M4	2018 06 07.01969	18 26 26.89	+46 29 12.1	14.7	N	585
C/2017 M4	2018 06 07.02039	18 26 26.78	+46 29 11.8	14.7	N	585
C/2017 M4	2018 06 07.02111	18 26 26.69	+46 29 11.7	14.6	N	585
C/2017 M4	2018 06 07.02182	18 26 26.59	+46 29 11.5	14.8	N	585
C/2017 M4	2018 06 07.02252	18 26 26.51	+46 29 11.3	14.8	N	585
C/2017 M4	2018 06 07.02323	18 26 26.40	+46 29 11.4	14.7	N	585
C/2017 M4	2018 06 07.04410	18 26 23.96	+46 29 08.2	15.4	N	Z39
C/2017 M4	2018 06 07.05817	18 26 22.16	+46 29 05.8	15.4	N	Z39
C/2017 M4	2018 06 07.08678	18 26 18.59	+46 29 01.1	15.4	N	Z39
C/2017 M4	2018 06 07.50897	18 25 26.22	+46 27 48.6			D95
C/2017 M4	2018 06 07.51328	18 25 25.66	+46 27 48.0			D95
C/2017 M4	2018 06 07.51759	18 25 25.13	+46 27 47.3	14.4	T	D95
C/2017 M4	2018 06 08.17564	18 24 02.65	+46 25 48.4	15.5	N	J22
C/2017 M4	2018 06 08.17760	18 24 02.38	+46 25 48.0	15.5	N	J22
C/2017 M4	2018 06 08.17958	18 24 02.16	+46 25 47.8	15.5	N	J22
C/2017 M4	2018 06 08.38875	18 23 35.92	+46 25 06.0	14.2	G	703
C/2017 M4	2018 06 08.39372	18 23 35.29	+46 25 04.9	14.2	G	703
C/2017 M4	2018 06 08.39868	18 23 34.67	+46 25 04.0	14.3	G	703
C/2017 M4	2018 06 08.40362	18 23 34.05	+46 25 02.9	14.3	G	703
C/2017 M4	2018 06 08.40818	18 23 33.67	+46 25 01.9	14.3	G	703
C/2017 M4	2018 06 08.41320	18 23 33.02	+46 25 00.9	14.3	G	703
C/2017 M4	2018 06 08.41822	18 23 32.36	+46 24 59.9	14.4	G	703
C/2017 M4	2018 06 08.42325	18 23 31.75	+46 24 59.0	14.3	G	703
C/2017 M4	2018 06 08.86991	18 22 35.63	+46 23 28.5	15.8	N	C77
C/2017 M4	2018 06 08.87953	18 22 34.40	+46 23 27.0	15.8	N	C77
C/2017 M4	2018 06 08.89105	18 22 32.87	+46 23 24.8	15.7	N	C77
C/2017 M4	2018 06 09.48691	18 21 17.51	+46 21 16.1	15.3	o	T08
C/2017 M4	2018 06 09.49295	18 21 16.76	+46 21 15.2	15.2	o	T08
C/2017 M4	2018 06 09.49436	18 21 16.57	+46 21 14.6	15.3	o	T08

C/2017 M4	2018 06 09.50327	18 21 15.43	+46 21 12.5	15.2	o	T08
C/2017 M4	2018 06 09.50471	18 21 15.23	+46 21 12.4	15.2	o	T08
C/2017 M4	2018 06 09.51354	18 21 14.11	+46 21 10.9	15.8	o	T08
C/2017 M4	2018 06 09.91600	18 20 23.23	+46 19 37.5	15.6	R	B96
C/2017 M4	2018 06 09.91763	18 20 23.04	+46 19 37.1	15.8	R	B96
C/2017 M4	2018 06 09.91926	18 20 22.83	+46 19 36.7	15.7	R	B96
C/2017 M4	2018 06 09.92089	18 20 22.63	+46 19 36.4	15.7	R	B96
C/2017 M4	2018 06 09.92253	18 20 22.41	+46 19 35.9	15.7	R	B96
C/2017 M4	2018 06 09.92426	18 20 22.22	+46 19 35.6	15.9	R	B96
C/2017 M4	2018 06 09.92589	18 20 21.98	+46 19 35.1	15.8	R	B96
C/2017 M4	2018 06 09.92752	18 20 21.77	+46 19 34.8	15.7	R	B96
C/2017 M4	2018 06 10.04932	18 20 06.16	+46 19 06.6	15.4	N	L27
C/2017 M4	2018 06 10.07751	18 20 02.61	+46 18 59.3	15.4	N	L27
C/2017 M4	2018 06 10.10644	18 19 58.83	+46 18 52.5	15.5	N	L27
C/2017 M4	2018 06 10.96589	18 18 09.33	+46 15 17.4	16.1	N	K A71
C/2017 M4	2018 06 10.97061	18 18 08.72	+46 15 16.7	16.0	N	K A71
C/2017 M4	2018 06 10.97423	18 18 08.26	+46 15 15.6	16.1	N	K A71
C/2017 M4	2018 06 10.97785	18 18 07.81	+46 15 15.0	16.1	N	K A71
C/2017 M4	2018 06 10.98086	18 18 07.42	+46 15 13.7	16.0	N	K A71
C/2017 M4	2018 06 11.48861	18 17 02.41	+46 12 58.0	16.2	c	T05
C/2017 M4	2018 06 11.51786	18 16 58.60	+46 12 50.1	16.4	c	T05
C/2017 M4	2018 06 11.52918	18 16 57.12	+46 12 46.3	15.5	c	T05
C/2017 M4	2018 06 12.39825	18 15 05.40	+46 08 35.4	14.3	G	703
C/2017 M4	2018 06 12.40317	18 15 04.76	+46 08 33.9	14.3	G	703
C/2017 M4	2018 06 12.40809	18 15 04.12	+46 08 32.4	14.2	G	703
C/2017 M4	2018 06 12.41302	18 15 03.48	+46 08 30.8	14.2	G	703
C/2017 M4	2018 06 12.55248	18 14 45.66	+46 07 49.7			900
C/2017 M4	2018 06 12.55961	18 14 44.75	+46 07 47.4	12.1	T	900
C/2017 M4	2018 06 12.72539	18 14 23.15	+46 06 57.4	14.2	T	Q11
C/2017 M4	2018 06 12.73396	18 14 22.04	+46 06 54.8			Q11
C/2017 M4	2018 06 12.74255	18 14 20.92	+46 06 51.9			Q11
C/2017 M4	2018 06 13.49149	18 12 44.10	+46 02 53.3	15.2	o	T08
C/2017 M4	2018 06 13.50503	18 12 42.32	+46 02 49.4	15.8	o	T08
C/2017 M4	2018 06 13.52197	18 12 40.09	+46 02 43.3	15.2	o	T08
C/2017 M4	2018 06 13.53419	18 12 38.50	+46 02 39.1	15.2	o	T08
C/2017 M4	2018 06 13.89666	18 11 51.70	+46 00 37.5	15.6	N	C23
C/2017 M4	2018 06 13.90115	18 11 51.13	+46 00 35.9	15.6	N	C23
C/2017 M4	2018 06 13.90490	18 11 50.64	+46 00 34.5	15.5	N	C23
C/2017 M4	2018 06 14.65654	18 10 12.85	+45 56 11.9	14.7	R	D29
C/2017 M4	2018 06 14.67068	18 10 11.02	+45 56 07.2	14.6	R	D29
C/2017 M4	2018 06 14.68482	18 10 09.15	+45 56 01.9	14.7	R	D29
C/2017 M4	2018 06 14.97359	18 09 31.60	+45 54 17.1	15.4	N	J01
C/2017 M4	2018 06 14.97938	18 09 30.84	+45 54 15.1	15.4	N	J01
C/2017 M4	2018 06 14.99672	18 09 28.59	+45 54 08.8	15.4	N	J01
C/2017 M4	2018 06 15.48568	18 08 24.70	+45 51 05.7	16.4	c	T05
C/2017 M4	2018 06 15.49711	18 08 23.19	+45 51 00.7	15.5	c	T05
C/2017 M4	2018 06 15.50691	18 08 21.91	+45 50 56.9	15.5	c	T05
C/2017 M4	2018 06 15.51352	18 08 21.04	+45 50 54.2	15.5	c	T05
C/2017 M4	2018 06 15.89022	18 07 32.04	+45 48 28.0	15.5	R	K K22
C/2017 M4	2018 06 15.90567	18 07 30.03	+45 48 21.9	15.4	R	K K22
C/2017 M4	2018 06 15.91716	18 07 28.52	+45 48 17.3	15.5	R	K K22
C/2017 M4	2018 06 15.95494	18 07 23.56	+45 48 03.0	15.3	N	Z55
C/2017 M4	2018 06 15.95758	18 07 23.23	+45 48 01.7	15.4	N	Z55
C/2017 M4	2018 06 15.95927	18 07 23.01	+45 48 01.1	15.4	N	Z55
C/2017 M4	2018 06 15.96014	18 07 22.93	+45 48 01.0	15.3	N	Z55
C/2017 M4	2018 06 16.53200	18 06 08.12	+45 44 09.9			K 367
C/2017 M4	2018 06 16.53322	18 06 07.97	+45 44 09.4			K 367
C/2017 M4	2018 06 16.53484	18 06 07.77	+45 44 08.9	14.6	T	K 367
C/2017 M4	2018 06 17.09495	18 04 54.43	+45 40 13.9			I15
C/2017 M4	2018 06 17.09710	18 04 54.14	+45 40 12.9			I15
C/2017 M4	2018 06 17.09926	18 04 53.85	+45 40 12.1			I15
C/2017 M4	2018 06 17.47182	18 04 04.87	+45 37 31.9	15.2	o	T08
C/2017 M4	2018 06 17.48351	18 04 03.32	+45 37 27.2	15.8	o	T08
C/2017 M4	2018 06 17.49230	18 04 02.16	+45 37 22.7	15.1	o	T08
C/2017 M4	2018 06 17.49927	18 04 01.24	+45 37 19.8	15.2	o	T08
C/2017 M4	2018 06 17.96685	18 03 00.09	+45 33 52.1	15.4	N	J01
C/2017 M4	2018 06 17.97404	18 02 59.13	+45 33 48.6	15.4	N	J01
C/2017 M4	2018 06 17.98122	18 02 58.20	+45 33 45.6	15.4	N	J01
C/2017 M4	2018 06 18.02683	18 02 52.13	+45 33 24.8	15.0	N	B74
C/2017 M4	2018 06 18.03352	18 02 51.27	+45 33 22.2	15.0	N	B74
C/2017 M4	2018 06 18.04013	18 02 50.37	+45 33 18.9	15.0	N	B74
C/2017 M4	2018 06 18.25448	18 02 22.27	+45 31 41.8	15.9	R	K H47
C/2017 M4	2018 06 18.26343	18 02 21.08	+45 31 37.7	16.0	R	K H47
C/2017 M4	2018 06 18.27641	18 02 19.41	+45 31 31.5	16.0	R	K H47
C/2017 M4	2018 06 18.86362	18 01 02.49	+45 26 56.7	16.6	N	K 160
C/2017 M4	2018 06 18.86626	18 01 02.14	+45 26 55.5	16.6	N	K 160
C/2017 M4	2018 06 18.86891	18 01 01.78	+45 26 53.8	16.6	N	K 160
C/2017 M4	2018 06 18.89661	18 00 58.12	+45 26 40.8	15.5	N	C23
C/2017 M4	2018 06 18.90013	18 00 57.69	+45 26 39.2	15.5	R	B96
C/2017 M4	2018 06 18.90177	18 00 57.47	+45 26 38.1	15.6	R	B96
C/2017 M4	2018 06 18.90185	18 00 57.36	+45 26 38.2	15.5	N	C23
C/2017 M4	2018 06 18.90340	18 00 57.23	+45 26 37.6	15.5	R	B96
C/2017 M4	2018 06 18.90503	18 00 57.06	+45 26 36.9	15.5	R	B96
C/2017 M4	2018 06 18.90634	18 00 56.80	+45 26 36.0	15.4	N	C23
C/2017 M4	2018 06 18.90668	18 00 56.83	+45 26 36.1	15.5	R	B96
C/2017 M4	2018 06 18.90840	18 00 56.57	+45 26 35.2	15.5	R	B96
C/2017 M4	2018 06 18.91005	18 00 56.37	+45 26 34.8	15.5	R	B96
C/2017 M4	2018 06 18.91168	18 00 56.16	+45 26 33.8	15.5	R	B96
C/2017 M4	2018 06 18.91218	18 00 56.10	+45 26 33.7	15.5	R	K K22
C/2017 M4	2018 06 18.91332	18 00 55.92	+45 26 32.9	15.5	R	B96
C/2017 M4	2018 06 18.92818	18 00 53.99	+45 26 26.5	15.5	R	K K22
C/2017 M4	2018 06 18.94602	18 00 51.62	+45 26 17.5	15.3	N	B54
C/2017 M4	2018 06 18.94706	18 00 51.48	+45 26 17.3	15.3	N	B54
C/2017 M4	2018 06 18.94733	18 00 51.45	+45 26 17.1	15.3	N	B54
C/2017 M4	2018 06 18.96846	18 00 48.59	+45 26 07.2	15.4	R	K K22
C/2017 M4	2018 06 19.00034	18 00 44.64	+45 25 50.3	14.6	N	K14
C/2017 M4	2018 06 19.01000	18 00 43.08	+45 25 47.0	15.9	N	K14
C/2017 M4	2018 06 19.01503	18 00 42.43	+45 25 44.4	15.9	N	K14
C/2017 M4	2018 06 19.92633	17 58 42.91	+45 18 15.4	15.0	N	K K21
C/2017 M4	2018 06 19.933995	17 58 41.92	+45 18 11.0	15.3		Z43
C/2017 M4	2018 06 19.93680	17 58 41.51	+45 18 10.0	15.0	N	K K21
C/2017 M4	2018 06 19.937700	17 58 41.43	+45 18 09.0	15.1		Z43
C/2017 M4	2018 06 19.940880	17 58 41.01	+45 18 07.3	15.1		Z43
C/2017 M4	2018 06 19.944339	17 58 40.53	+45 18 06.2	15.0		Z43
C/2017 M4	2018 06 19.94529	17 58 40.43	+45 18 06.3	15.0	N	K K21
C/2017 M4	2018 06 19.947879	17 58 40.06	+45 18 03.9	14.8		Z43

C/2017 M4	2018 06 19.95141	17 58 39.62	+45 18 03.2	15.3	N	C10
C/2017 M4	2018 06 19.97353	17 58 36.69	+45 17 51.8	15.2	N	C10
C/2017 M4	2018 06 19.99642	17 58 33.65	+45 17 40.3	15.3	N	C10
C/2017 M4	2018 06 20.87222	17 56 38.86	+45 10 05.6	15.4	N	C86
C/2017 M4	2018 06 20.87405	17 56 38.59	+45 10 04.4	15.4	N	C86
C/2017 M4	2018 06 20.87594	17 56 38.35	+45 10 04.1	15.1	N	C86
C/2017 M4	2018 06 20.90025	17 56 35.15	+45 09 50.7	15.6	R	B96
C/2017 M4	2018 06 20.90353	17 56 34.72	+45 09 48.8	15.6	R	B96
C/2017 M4	2018 06 20.90681	17 56 34.29	+45 09 47.2	15.6	R	B96
C/2017 M4	2018 06 20.91016	17 56 33.82	+45 09 45.5	15.7	R	B96
C/2017 M4	2018 06 20.91344	17 56 33.40	+45 09 44.0	15.7	R	B96
C/2017 M4	2018 06 20.95124	17 56 28.44	+45 09 23.4	15.4	R	C10
C/2017 M4	2018 06 20.97328	17 56 25.53	+45 09 11.9	15.4	R	C10
C/2017 M4	2018 06 20.99606	17 56 22.41	+45 08 59.4	15.4	R	C10
C/2017 M4	2018 06 21.02043	17 56 19.34	+45 08 47.6	15.4	N	20G40
C/2017 M4	2018 06 21.02238	17 56 19.09	+45 08 46.4	15.4	N	20G40
C/2017 M4	2018 06 21.45314	17 55 22.52	+45 04 52.4	15.1	o	T08
C/2017 M4	2018 06 21.46395	17 55 21.09	+45 04 46.5	15.1	o	T08
C/2017 M4	2018 06 21.48239	17 55 18.64	+45 04 36.2	15.1	o	T08
C/2017 M4	2018 06 21.49370	17 55 17.14	+45 04 30.0	15.1	o	T08
C/2017 M4	2018 06 21.50565	17 55 15.73	+45 04 23.9			K D81
C/2017 M4	2018 06 21.52850	17 55 12.74	+45 04 11.1			K D81
C/2017 M4	2018 06 21.53079	17 55 12.45	+45 04 09.5			K D81
C/2017 M4	2018 06 21.53687	17 55 11.68	+45 04 06.1	13.9	T	K D81
C/2017 M4	2018 06 21.90067	17 54 24.01	+45 00 44.1	15.7	R	B96
C/2017 M4	2018 06 21.90394	17 54 23.57	+45 00 42.7	15.7	R	B96
C/2017 M4	2018 06 21.90721	17 54 23.16	+45 00 41.0	15.6	R	B96
C/2017 M4	2018 06 21.91058	17 54 22.70	+45 00 38.8	15.6	R	B96
C/2017 M4	2018 06 21.91384	17 54 22.27	+45 00 36.9	15.7	R	B96
C/2017 M4	2018 06 21.93106	17 54 20.01	+45 00 27.4	16.8	N	K 160
C/2017 M4	2018 06 21.93485	17 54 19.51	+45 00 25.3	16.8	N	K 160
C/2017 M4	2018 06 21.93864	17 54 18.99	+45 00 23.5	16.6	N	K 160
C/2017 M4	2018 06 22.00616	17 54 10.10	+44 59 44.7	15.5	N	K02
C/2017 M4	2018 06 22.01234	17 54 09.28	+44 59 41.3	15.6	N	K02
C/2017 M4	2018 06 22.01851	17 54 08.45	+44 59 37.9	15.6	N	K02
C/2017 M4	2018 06 22.947350	17 52 06.97	+44 50 42.9	15.5		Z43
C/2017 M4	2018 06 22.951404	17 52 06.50	+44 50 40.1	15.1		Z43
C/2017 M4	2018 06 22.956230	17 52 05.83	+44 50 37.4	15.0		Z43
C/2017 M4	2018 06 22.959640	17 52 05.39	+44 50 35.5	15.0		Z43
C/2017 M4	2018 06 22.98951	17 52 01.46	+44 50 17.6	15.4	N	L27
C/2017 M4	2018 06 23.01047	17 51 58.64	+44 50 05.2	15.4	N	L27
C/2017 M4	2018 06 23.03218	17 51 55.77	+44 49 52.1	15.4	N	L27
C/2017 M4	2018 06 23.45642	17 51 00.39	+44 45 39.9	15.1	o	T05
C/2017 M4	2018 06 23.46575	17 50 59.15	+44 45 34.1	15.1	o	T05
C/2017 M4	2018 06 23.47377	17 50 58.10	+44 45 29.2	15.1	o	T05
C/2017 M4	2018 06 23.48610	17 50 56.47	+44 45 21.6	15.1	o	T05
C/2017 M4	2018 06 23.88488	17 50 04.69	+44 41 17.9	15.4	N	Z50
C/2017 M4	2018 06 23.89534	17 50 03.32	+44 41 11.6	15.4	N	Z50
C/2017 M4	2018 06 23.89796	17 50 02.95	+44 41 10.1	15.4	N	Z50
C/2017 M4	2018 06 23.97635	17 49 52.60	+44 40 22.5	15.2	N	J38
C/2017 M4	2018 06 23.97918	17 49 52.38	+44 40 21.0	15.3	N	J38
C/2017 M4	2018 06 23.98366	17 49 51.79	+44 40 19.3	15.1	N	J38
C/2017 M4	2018 06 24.86206	17 47 57.51	+44 31 03.8	15.3	N	C86
C/2017 M4	2018 06 24.86397	17 47 57.31	+44 31 03.0	15.3	N	C86
C/2017 M4	2018 06 24.86581	17 47 57.00	+44 31 00.5	15.0	N	C86
C/2017 M4	2018 06 24.88964	17 47 53.89	+44 30 45.5	15.5	N	K14
C/2017 M4	2018 06 24.89522	17 47 53.17	+44 30 41.6	15.6	N	K14
C/2017 M4	2018 06 24.90786	17 47 51.49	+44 30 33.9	15.5	N	K14
C/2017 M4	2018 06 24.91344	17 47 50.77	+44 30 30.5	15.8	N	K14
C/2017 M4	2018 06 24.92461	17 47 49.23	+44 30 21.2	15.1	N	K14
C/2017 M4	2018 06 24.93212	17 47 48.21	+44 30 17.3	13.9	N	A98
C/2017 M4	2018 06 24.93295	17 47 48.08	+44 30 16.9	14.2	N	A98
C/2017 M4	2018 06 24.93713	17 47 47.48	+44 30 14.1	13.8	N	A98
C/2017 M4	2018 06 24.95706	17 47 45.04	+44 30 02.8	15.3	N	B74
C/2017 M4	2018 06 24.96335	17 47 44.21	+44 29 58.2	15.3	N	B74
C/2017 M4	2018 06 24.96996	17 47 43.34	+44 29 54.3	15.3	N	B74
C/2017 M4	2018 06 25.29301	17 47 01.44	+44 26 23.6	14.4	G	G96
C/2017 M4	2018 06 25.29873	17 47 00.68	+44 26 19.7	14.3	G	G96
C/2017 M4	2018 06 25.30414	17 46 59.97	+44 26 16.3	14.3	G	G96
C/2017 M4	2018 06 25.91049	17 45 41.49	+44 19 34.6	15.8	R	B96
C/2017 M4	2018 06 25.91375	17 45 41.09	+44 19 32.7	15.8	R	B96
C/2017 M4	2018 06 25.91703	17 45 40.65	+44 19 30.2	15.9	R	B96
C/2017 M4	2018 06 25.92039	17 45 40.21	+44 19 27.9	15.8	R	B96
C/2017 M4	2018 06 25.92366	17 45 39.79	+44 19 25.9	15.8	R	B96
C/2017 M4	2018 06 26.04376	17 45 24.10	+44 18 04.6	15.5	N	C23
C/2017 M4	2018 06 26.04825	17 45 23.54	+44 18 01.6	15.6	N	C23
C/2017 M4	2018 06 26.05199	17 45 23.05	+44 17 59.1	15.6	N	C23
C/2017 M4	2018 06 26.37431	17 44 41.580	+44 14 21.52	15.6	i	F51
C/2017 M4	2018 06 26.38664	17 44 39.964	+44 14 13.10	15.5	i	F51
C/2017 M4	2018 06 26.91060	17 43 32.43	+44 08 09.2	15.8	R	B96
C/2017 M4	2018 06 26.91223	17 43 32.23	+44 08 08.4	15.9	R	B96
C/2017 M4	2018 06 26.91387	17 43 32.01	+44 08 07.1	15.8	R	B96
C/2017 M4	2018 06 26.91550	17 43 31.80	+44 08 05.8	15.8	R	B96
C/2017 M4	2018 06 26.91714	17 43 31.57	+44 08 04.6	15.9	R	B96
C/2017 M4	2018 06 26.91877	17 43 31.38	+44 08 03.6	15.8	R	B96
C/2017 M4	2018 06 26.92050	17 43 31.16	+44 08 02.2	15.8	R	B96
C/2017 M4	2018 06 26.92214	17 43 30.93	+44 08 01.1	15.9	R	B96
C/2017 M4	2018 06 26.92377	17 43 30.72	+44 08 00.0	15.9	R	B96
C/2017 M4	2018 06 27.01557	17 43 18.80	+44 06 55.9	15.2	N	L27
C/2017 M4	2018 06 27.04378	17 43 15.15	+44 06 35.9	15.1	N	L27
C/2017 M4	2018 06 27.07271	17 43 11.39	+44 06 15.8	15.1	N	L27
C/2017 M4	2018 06 27.48502	17 42 18.42	+44 01 23.7	15.0	o	T05
C/2017 M4	2018 06 27.49234	17 42 17.47	+44 01 18.4	15.1	o	T05
C/2017 M4	2018 06 27.50332	17 42 16.03	+44 01 10.8	15.1	o	T05
C/2017 M4	2018 06 27.51246	17 42 14.85	+44 01 03.9	15.0	o	T05
C/2017 M4	2018 06 27.89260	17 41 26.43	+43 56 30.4	15.9	N	9 G40
C/2017 M4	2018 06 27.90069	17 41 25.39	+43 56 24.4	15.7	N	9 G40
C/2017 M4	2018 06 27.91047	17 41 24.00	+43 56 16.5	15.6	R	B96
C/2017 M4	2018 06 27.91375	17 41 23.64	+43 56 14.5	15.9	R	B96
C/2017 M4	2018 06 27.91867	17 41 23.00	+43 56 10.9	15.9	R	B96
C/2017 M4	2018 06 27.92368	17 41 22.38	+43 56 07.5	15.9	R	B96
C/2017 M4	2018 06 28.90941	17 39 16.55	+43 43 58.0	15.9	R	B96
C/2017 M4	2018 06 28.91267	17 39 16.15	+43 43 55.2	15.8	R	B96
C/2017 M4	2018 06 28.91758	17 39 15.55	+43 43 51.7	15.9	R	B96
C/2017 M4	2018 06 28.92258	17 39 14.88	+43 43 48.0	15.9	R	B96
C/2017 M4	2018 06 29.89903	17 37 11.04	+43 31 18.8	15.0	N	C10

C/2017 M4	2018 06 29.90203	17 37 10.68	+43 31 16.9	15.8	N	K14
C/2017 M4	2018 06 29.90534	17 37 10.26	+43 31 14.2	15.8	R	B96
C/2017 M4	2018 06 29.90716	17 37 10.02	+43 31 12.8	15.7	N	K14
C/2017 M4	2018 06 29.90861	17 37 09.82	+43 31 11.5	15.8	R	B96
C/2017 M4	2018 06 29.91189	17 37 09.43	+43 31 09.2	15.8	R	B96
C/2017 M4	2018 06 29.91229	17 37 09.33	+43 31 08.7	15.7	N	K14
C/2017 M4	2018 06 29.91525	17 37 08.99	+43 31 06.8	15.8	R	B96
C/2017 M4	2018 06 29.91741	17 37 08.69	+43 31 04.7	15.6	N	K14
C/2017 M4	2018 06 29.91852	17 37 08.57	+43 31 04.2	15.8	R	B96
C/2017 M4	2018 06 29.92118	17 37 08.21	+43 31 01.4	15.1	N	C10
C/2017 M4	2018 06 29.94403	17 37 05.31	+43 30 43.6	15.2	N	C10
C/2017 M4	2018 06 29.98076	17 37 00.60	+43 30 15.1	15.4	N	C23
C/2017 M4	2018 06 29.98675	17 36 59.86	+43 30 10.2	15.3	N	C23
C/2017 M4	2018 06 29.99199	17 36 59.20	+43 30 06.2	15.5	N	C23
C/2017 M4	2018 06 30.89811	17 35 05.21	+43 18 06.6	16.4	N	K 160
C/2017 M4	2018 06 30.90089	17 35 04.90	+43 18 04.4	16.4	N	K 160
C/2017 M4	2018 06 30.90366	17 35 04.52	+43 18 02.0	16.4	N	K 160
C/2017 M4	2018 06 30.906642	17 35 04.09	+43 17 59.5	16.3	V	C95
C/2017 M4	2018 06 30.909005	17 35 03.85	+43 17 57.6	15.8	V	C95
C/2017 M4	2018 06 30.911366	17 35 03.55	+43 17 55.4	15.7	V	C95
C/2017 M4	2018 06 30.913729	17 35 03.24	+43 17 53.7	15.8	V	C95
C/2017 M4	2018 06 30.916091	17 35 02.97	+43 17 51.9	15.9	V	C95
C/2017 M4	2018 06 30.919633	17 35 02.52	+43 17 48.9	15.9	V	C95
C/2017 M4	2018 07 01.12544	17 34 36.73	+43 15 02.3			I15
C/2017 M4	2018 07 01.12759	17 34 36.45	+43 15 00.5			I15
C/2017 M4	2018 07 01.12974	17 34 36.18	+43 14 58.6			I15
C/2017 M4	2018 07 01.33710	17 34 10.17	+43 12 07.3	14.0	G	703
C/2017 M4	2018 07 01.34249	17 34 09.50	+43 12 03.2	14.1	G	703
C/2017 M4	2018 07 01.35327	17 34 08.11	+43 11 54.8	14.1	G	703
C/2017 M4	2018 07 01.92000	17 32 57.60	+43 04 07.9	15.7	R	B96
C/2017 M4	2018 07 01.92328	17 32 57.21	+43 04 05.9	15.7	R	B96
C/2017 M4	2018 07 01.92818	17 32 56.57	+43 04 01.9	15.7	R	B96
C/2017 M4	2018 07 01.93318	17 32 55.88	+43 03 57.1	15.7	R	B96
C/2017 M4	2018 07 01.93414	17 32 55.76	+43 03 56.4	15.4	G	C47
C/2017 M4	2018 07 01.93820	17 32 55.25	+43 03 53.5	16.9	G	C47
C/2017 M4	2018 07 01.94226	17 32 54.74	+43 03 49.5	16.2	G	C47
C/2017 M4	2018 07 01.94631	17 32 54.24	+43 03 46.4	16.6	G	C47
C/2017 M4	2018 07 01.95037	17 32 53.67	+43 03 42.8	15.8	G	C47
C/2017 M4	2018 07 01.95480	17 32 53.17	+43 03 39.0	16.9	G	C47
C/2017 M4	2018 07 01.95960	17 32 52.62	+43 03 35.3	17.0	G	C47
C/2017 M4	2018 07 02.67108	17 31 24.34	+42 53 34.8	14.5	T	349
C/2017 M4	2018 07 02.67622	17 31 23.70	+42 53 30.4			349
C/2017 M4	2018 07 02.68137	17 31 23.04	+42 53 26.2			349
C/2017 M4	2018 07 02.86847	17 31 00.06	+42 50 44.9	15.4	V	K A77
C/2017 M4	2018 07 02.87629	17 30 59.20	+42 50 38.7	15.4	V	K A77
C/2017 M4	2018 07 02.88413	17 30 58.18	+42 50 31.2	15.3	V	K A77
C/2017 M4	2018 07 02.89043	17 30 57.43	+42 50 26.7	15.3	N	C86
C/2017 M4	2018 07 02.89236	17 30 57.20	+42 50 25.7	15.4	N	C86
C/2017 M4	2018 07 02.89429	17 30 56.95	+42 50 23.9	15.4	N	C86
C/2017 M4	2018 07 02.90671	17 30 55.42	+42 50 12.8	15.7	R	B96
C/2017 M4	2018 07 02.90998	17 30 54.99	+42 50 10.5	15.6	R	B96
C/2017 M4	2018 07 02.91488	17 30 54.39	+42 50 05.9	15.7	R	B96
C/2017 M4	2018 07 02.91988	17 30 53.77	+42 50 01.8	15.7	R	B96
C/2017 M4	2018 07 02.98058	17 30 46.15	+42 49 09.6	15.1	N	L27
C/2017 M4	2018 07 02.99334	17 30 44.63	+42 48 57.9	15.4	N	K02
C/2017 M4	2018 07 02.99951	17 30 43.85	+42 48 52.8	15.3	N	K02
C/2017 M4	2018 07 03.00155	17 30 43.60	+42 48 51.5	15.0	N	L27
C/2017 M4	2018 07 03.00725	17 30 42.89	+42 48 46.0	15.3	N	K02
C/2017 M4	2018 07 03.02324	17 30 40.91	+42 48 32.8	15.1	N	L27
C/2017 M4	2018 07 03.28684	17 30 08.55	+42 44 43.7	14.3	G	G96
C/2017 M4	2018 07 03.29204	17 30 07.89	+42 44 39.3	14.3	G	G96
C/2017 M4	2018 07 03.29723	17 30 07.25	+42 44 34.7	14.3	G	G96
C/2017 M4	2018 07 03.30242	17 30 06.61	+42 44 30.2	14.2	G	G96
C/2017 M4	2018 07 03.41735	17 29 52.48	+42 42 51.0	15.1	o	T08
C/2017 M4	2018 07 03.41921	17 29 52.26	+42 42 49.4	15.1	o	T08
C/2017 M4	2018 07 03.42818	17 29 51.14	+42 42 41.4	15.1	o	T08
C/2017 M4	2018 07 03.43192	17 29 50.67	+42 42 38.2	15.1	o	T08
C/2017 M4	2018 07 03.43791	17 29 49.92	+42 42 33.0	15.1	o	T08
C/2017 M4	2018 07 03.43976	17 29 49.69	+42 42 31.8	15.7	o	T08
C/2017 M4	2018 07 03.44641	17 29 48.87	+42 42 26.1	15.7	o	T08
C/2017 M4	2018 07 03.44780	17 29 48.71	+42 42 24.3	15.2	o	T08
C/2017 M4	2018 07 03.87453	17 28 56.58	+42 36 10.0	16.3	N	K A71
C/2017 M4	2018 07 03.87996	17 28 55.94	+42 36 05.0	16.0	N	K A71
C/2017 M4	2018 07 03.88539	17 28 55.24	+42 36 00.3	16.0	N	K A71
C/2017 M4	2018 07 03.89083	17 28 54.56	+42 35 55.2	16.0	N	K A71
C/2017 M4	2018 07 04.04211	17 28 35.99	+42 33 40.1	15.2	V	K A77
C/2017 M4	2018 07 04.04818	17 28 35.22	+42 33 34.3	15.2	V	K A77
C/2017 M4	2018 07 04.05427	17 28 34.40	+42 33 29.3	15.2	V	K A77
C/2017 M4	2018 07 04.89286	17 26 52.87	+42 20 56.0	16.1	N	B49
C/2017 M4	2018 07 04.89667	17 26 52.38	+42 20 52.3	15.7	N	K14
C/2017 M4	2018 07 04.90156	17 26 51.77	+42 20 47.7	15.6	N	K14
C/2017 M4	2018 07 04.90373	17 26 51.54	+42 20 45.9	16.2	N	B49
C/2017 M4	2018 07 04.90645	17 26 51.18	+42 20 43.5	15.6	N	K14
C/2017 M4	2018 07 04.91028	17 26 50.75	+42 20 40.1	15.3	N	J01
C/2017 M4	2018 07 04.91133	17 26 50.55	+42 20 39.0	15.6	N	K14
C/2017 M4	2018 07 04.91612	17 26 50.01	+42 20 34.4	15.3	N	B49
C/2017 M4	2018 07 04.91623	17 26 49.94	+42 20 34.7	15.5	N	K14
C/2017 M4	2018 07 04.94719	17 26 46.18	+42 20 06.4	15.3	N	J01
C/2017 M4	2018 07 04.95086	17 26 45.78	+42 20 03.1	15.3	N	J01
C/2017 M4	2018 07 05.02123	17 26 37.18	+42 18 58.4	14.7	V	K 104
C/2017 M4	2018 07 05.03564	17 26 35.43	+42 18 45.2	14.7	V	K 104
C/2017 M4	2018 07 05.42855	17 25 48.14	+42 12 45.0	15.0	o	T05
C/2017 M4	2018 07 05.43621	17 25 47.22	+42 12 38.5	16.1	o	T05
C/2017 M4	2018 07 05.45043	17 25 45.44	+42 12 24.8	15.9	o	T05
C/2017 M4	2018 07 05.45342	17 25 45.12	+42 12 23.1	15.1	o	T05
C/2017 M4	2018 07 05.90675	17 24 50.92	+42 05 20.9	15.6	R	B96
C/2017 M4	2018 07 05.91001	17 24 50.53	+42 05 17.5	15.7	R	B96
C/2017 M4	2018 07 05.91492	17 24 49.95	+42 05 13.1	15.7	R	B96
C/2017 M4	2018 07 05.91992	17 24 49.33	+42 05 08.2	15.7	R	B96
C/2017 M4	2018 07 05.95246	17 24 45.40	+42 04 37.2	15.3	N	C23
C/2017 M4	2018 07 05.95770	17 24 44.78	+42 04 32.4	15.3	N	C23
C/2017 M4	2018 07 05.96219	17 24 44.26	+42 04 28.5	15.8	N	C23
C/2017 M4	2018 07 06.91277	17 22 51.34	+41 49 27.5	15.7	R	B96
C/2017 M4	2018 07 06.91767	17 22 50.75	+41 49 23.0	15.7	R	B96
C/2017 M4	2018 07 06.92267	17 22 50.16	+41 49 18.2	15.7	R	B96
C/2017 M4	2018 07 06.95962	17 22 45.81	+41 48 43.7	15.2	N	Z55

C/2017 M4	2018 07 06.96130	17 22 45.59	+41 48 40.7	15.2	N	Z55
C/2017 M4	2018 07 06.96204	17 22 45.43	+41 48 41.2	15.2	N	Z55
C/2017 M4	2018 07 06.96328	17 22 45.34	+41 48 39.8	15.2	N	Z55
C/2017 M4	2018 07 07.90684	17 20 54.56	+41 33 21.4	15.7	R	B96
C/2017 M4	2018 07 07.90913	17 20 54.29	+41 33 19.0	15.3	N	C90
C/2017 M4	2018 07 07.91012	17 20 54.20	+41 33 18.3	15.7	R	B96
C/2017 M4	2018 07 07.91502	17 20 53.60	+41 33 13.3	15.7	R	B96
C/2017 M4	2018 07 07.92002	17 20 53.01	+41 33 08.9	15.7	R	B96
C/2017 M4	2018 07 07.92083	17 20 52.92	+41 33 07.9	15.3	N	C90
C/2017 M4	2018 07 07.93231	17 20 51.58	+41 32 56.9	15.3	N	C90
C/2017 M4	2018 07 07.94820	17 20 49.67	+41 32 40.7	17.0	N	K 160
C/2017 M4	2018 07 07.95094	17 20 49.36	+41 32 38.0	16.9	N	K 160
C/2017 M4	2018 07 07.95371	17 20 49.04	+41 32 35.2	17.0	N	K 160
C/2017 M4	2018 07 08.89126	17 19 00.41	+41 17 01.5	15.3	N	C86
C/2017 M4	2018 07 08.89310	17 19 00.14	+41 16 59.2	15.2	N	C86
C/2017 M4	2018 07 08.89494	17 18 59.92	+41 16 57.6	15.3	N	C86
C/2017 M4	2018 07 08.90341	17 18 58.96	+41 16 49.6	15.7	R	B96
C/2017 M4	2018 07 08.90832	17 18 58.36	+41 16 44.2	15.7	R	B96
C/2017 M4	2018 07 08.91495	17 18 57.60	+41 16 37.6	15.7	R	B96
C/2017 M4	2018 07 08.98204	17 18 49.76	+41 15 30.0	15.9	N	K B37
C/2017 M4	2018 07 08.99431	17 18 48.44	+41 15 17.2	16.8	N	K B37
C/2017 M4	2018 07 09.00590	17 18 46.99	+41 15 05.2	15.5	N	K B37
C/2017 M4	2018 07 09.43739	17 17 57.47	+41 07 48.1	15.4	c	T05
C/2017 M4	2018 07 09.44787	17 17 56.25	+41 07 37.4	15.4	c	T05
C/2017 M4	2018 07 09.46428	17 17 54.35	+41 07 20.5	15.4	c	T05
C/2017 M4	2018 07 09.47002	17 17 53.69	+41 07 14.8	15.4	c	T05
C/2017 M4	2018 07 09.90465	17 17 04.27	+40 59 49.5	16.5	N	K 160
C/2017 M4	2018 07 09.90747	17 17 03.94	+40 59 46.6	16.5	N	K 160
C/2017 M4	2018 07 09.91029	17 17 03.64	+40 59 43.6	16.4	N	K 160
C/2017 M4	2018 07 09.91602	17 17 02.94	+40 59 37.7	15.9	G	A77
C/2017 M4	2018 07 09.91951	17 17 02.55	+40 59 34.3	15.8	G	A77
C/2017 M4	2018 07 09.92426	17 17 02.01	+40 59 29.5	15.8	G	A77
C/2017 M4	2018 07 09.92921	17 17 01.47	+40 59 24.4	15.9	G	A77
C/2017 M4	2018 07 09.93421	17 17 00.94	+40 59 19.0	15.9	G	A77
C/2017 M4	2018 07 09.93832	17 17 00.40	+40 59 15.0	15.9	G	A77
C/2017 M4	2018 07 10.92770	17 15 08.72	+40 42 02.5	15.1	N	J38
C/2017 M4	2018 07 10.93393	17 15 08.06	+40 41 56.9	15.2	N	J38
C/2017 M4	2018 07 10.93550	17 15 07.93	+40 41 54.9	15.2	N	J38
C/2017 M4	2018 07 11.41145	17 14 14.65	+40 33 31.5	15.1	o	T08
C/2017 M4	2018 07 11.42204	17 14 13.46	+40 33 20.1	15.1	o	T08
C/2017 M4	2018 07 11.42822	17 14 12.77	+40 33 13.6	15.1	o	T08
C/2017 M4	2018 07 11.44253	17 14 11.16	+40 32 58.1	15.1	o	T08
C/2017 M4	2018 07 11.92215	17 13 18.14	+40 24 24.3	15.9	G	A77
C/2017 M4	2018 07 11.92558	17 13 17.77	+40 24 21.3	15.9	G	A77
C/2017 M4	2018 07 11.92969	17 13 17.28	+40 24 17.3	15.9	G	A77
C/2017 M4	2018 07 11.93215	17 13 16.99	+40 24 14.8	16.4	N	K 160
C/2017 M4	2018 07 11.93462	17 13 16.71	+40 24 12.2	15.9	G	A77
C/2017 M4	2018 07 11.93652	17 13 16.50	+40 24 10.1	16.4	N	K 160
C/2017 M4	2018 07 11.93873	17 13 16.31	+40 24 07.8	15.9	G	A77
C/2017 M4	2018 07 11.94036	17 13 16.10	+40 24 05.8	16.5	N	K 160
C/2017 M4	2018 07 12.15800	17 12 52.10	+40 20 11.5			I17
C/2017 M4	2018 07 12.15942	17 12 51.97	+40 20 09.3			I17
C/2017 M4	2018 07 12.16020	17 12 51.87	+40 20 09.0			I17
C/2017 M4	2018 07 12.16096	17 12 51.79	+40 20 08.5			I17
C/2017 M4	2018 07 12.16172	17 12 51.67	+40 20 07.6			I17
C/2017 M4	2018 07 12.16249	17 12 51.58	+40 20 06.5			I17
C/2017 M4	2018 07 12.89364	17 11 31.68	+40 06 50.9	16.3	N	K 160
C/2017 M4	2018 07 12.89643	17 11 31.33	+40 06 47.5	15.6	N	K 160
C/2017 M4	2018 07 12.89923	17 11 31.03	+40 06 44.6	16.2	N	K 160
C/2017 M4	2018 07 12.89955	17 11 30.96	+40 06 44.8	15.4	N	C86
C/2017 M4	2018 07 12.90153	17 11 30.81	+40 06 42.7	15.3	N	C86
C/2017 M4	2018 07 12.90348	17 11 30.61	+40 06 39.8	15.4	N	C86
C/2017 M4	2018 07 12.90822	17 11 30.08	+40 06 34.7	15.4	R	B96
C/2017 M4	2018 07 12.91149	17 11 29.72	+40 06 31.0	15.4	R	B96
C/2017 M4	2018 07 12.91476	17 11 29.36	+40 06 27.5	15.4	R	B96
C/2017 M4	2018 07 12.91812	17 11 29.00	+40 06 24.0	15.4	R	B96
C/2017 M4	2018 07 12.92139	17 11 28.63	+40 06 20.3	15.4	R	B96
C/2017 M4	2018 07 12.93966	17 11 26.62	+40 06 00.5	15.4	N	C90
C/2017 M4	2018 07 12.94309	17 11 26.29	+40 05 56.8	15.4	N	C90
C/2017 M4	2018 07 12.94638	17 11 25.77	+40 05 50.1	14.8	N	A98
C/2017 M4	2018 07 12.94647	17 11 25.88	+40 05 53.0	15.4	N	C90
C/2017 M4	2018 07 12.94804	17 11 25.51	+40 05 48.8	14.7	N	A98
C/2017 M4	2018 07 12.94971	17 11 25.30	+40 05 47.7	14.6	N	A98
C/2017 M4	2018 07 12.96304	17 11 23.87	+40 05 32.9	14.7	N	A98
C/2017 M4	2018 07 12.96471	17 11 23.74	+40 05 31.2	14.9	N	A98
C/2017 M4	2018 07 12.96638	17 11 23.54	+40 05 27.7	14.9	N	A98
C/2017 M4	2018 07 13.07227	17 11 12.12	+40 03 35.2	15.7	R	20G40
C/2017 M4	2018 07 13.07422	17 11 11.90	+40 03 33.2	15.6	R	20G40
C/2017 M4	2018 07 13.40625	17 10 36.01	+39 57 26.4	15.4	c	T05
C/2017 M4	2018 07 13.41540	17 10 35.04	+39 57 16.2	15.4	c	T05
C/2017 M4	2018 07 13.41724	17 10 34.82	+39 57 14.3	15.4	c	T05
C/2017 M4	2018 07 13.42349	17 10 34.17	+39 57 07.1	15.4	c	T05
C/2017 M4	2018 07 13.43681	17 10 32.69	+39 56 52.5	15.4	c	T05
C/2017 M4	2018 07 13.44165	17 10 32.17	+39 56 47.1	15.4	c	T05
C/2017 M4	2018 07 13.44211	17 10 32.12	+39 56 46.2	15.4	c	T05
C/2017 M4	2018 07 13.55823	17 10 19.69	+39 54 37.6			K D81
C/2017 M4	2018 07 13.56204	17 10 19.29	+39 54 33.5			K D81
C/2017 M4	2018 07 13.56584	17 10 18.87	+39 54 29.2			K D81
C/2017 M4	2018 07 13.56966	17 10 18.45	+39 54 25.1	13.5	T	K D81
C/2017 M4	2018 07 13.63386	17 10 11.60	+39 53 13.4	14.5	R	D29
C/2017 M4	2018 07 13.63998	17 10 10.81	+39 53 07.1	14.3	T	Q11
C/2017 M4	2018 07 13.64535	17 10 10.32	+39 53 00.4	14.5	R	D29
C/2017 M4	2018 07 13.64863	17 10 09.89	+39 52 57.4			Q11
C/2017 M4	2018 07 13.65432	17 10 09.26	+39 52 50.7			Q11
C/2017 M4	2018 07 13.65684	17 10 09.08	+39 52 47.6	14.5	R	D29
C/2017 M4	2018 07 13.86915	17 09 46.43	+39 48 51.7	15.8	N	K14
C/2017 M4	2018 07 13.87421	17 09 45.95	+39 48 46.2	15.5	N	K14
C/2017 M4	2018 07 13.87928	17 09 45.32	+39 48 40.1	15.8	N	K14
C/2017 M4	2018 07 13.88435	17 09 44.81	+39 48 35.1	16.1	N	K14
C/2017 M4	2018 07 13.88940	17 09 44.22	+39 48 29.4	16.2	N	K14
C/2017 M4	2018 07 13.90979	17 09 42.04	+39 48 06.2	15.4	R	B96
C/2017 M4	2018 07 13.91633	17 09 41.36	+39 47 58.9	15.4	R	B96
C/2017 M4	2018 07 13.92296	17 09 40.64	+39 47 51.9	15.5	R	B96
C/2017 M4	2018 07 13.92348	17 09 40.50	+39 47 51.0	17.0	G	C47
C/2017 M4	2018 07 13.92597	17 09 40.29	+39 47 48.5	15.4	N	I72
C/2017 M4	2018 07 13.92681	17 09 40.17	+39 47 47.6	16.9	G	C47

C/2017 M4	2018 07 13.93050	17 09 39.75	+39 47 42.8	16.2	G	C47
C/2017 M4	2018 07 13.93419	17 09 39.34	+39 47 38.6	17.0	G	C47
C/2017 M4	2018 07 13.93472	17 09 39.35	+39 47 38.8	15.4	N	I72
C/2017 M4	2018 07 13.93621	17 09 39.19	+39 47 37.0	15.4	N	I72
C/2017 M4	2018 07 13.93824	17 09 38.94	+39 47 34.3	16.9	G	C47
C/2017 M4	2018 07 13.94230	17 09 38.49	+39 47 29.8	16.3	G	C47
C/2017 M4	2018 07 13.96547	17 09 36.03	+39 47 04.5	15.4	N	J22
C/2017 M4	2018 07 13.96940	17 09 35.54	+39 46 59.8	15.4	N	J22
C/2017 M4	2018 07 13.97332	17 09 35.23	+39 46 55.9	15.4	N	J22
C/2017 M4	2018 07 14.87175	17 08 00.00	+39 30 03.1	15.4	N	Z55
C/2017 M4	2018 07 14.87225	17 07 59.96	+39 30 02.6	15.4	N	Z55
C/2017 M4	2018 07 14.87273	17 07 59.91	+39 30 01.9	15.4	N	Z55
C/2017 M4	2018 07 14.87323	17 07 59.82	+39 30 01.2	15.3	N	Z55
C/2017 M4	2018 07 14.87373	17 07 59.79	+39 30 00.9	15.4	N	Z55
C/2017 M4	2018 07 14.87421	17 07 59.78	+39 30 00.4	15.3	N	Z55
C/2017 M4	2018 07 14.87471	17 07 59.69	+39 30 00.0	15.4	N	Z55
C/2017 M4	2018 07 14.87521	17 07 59.66	+39 29 59.5	15.4	N	Z55
C/2017 M4	2018 07 14.87572	17 07 59.61	+39 29 58.9	15.3	N	Z55
C/2017 M4	2018 07 14.89065	17 07 57.78	+39 29 39.6	14.8	N	K K73
C/2017 M4	2018 07 14.89792	17 07 57.12	+39 29 31.9	14.9	N	K K73
C/2017 M4	2018 07 14.90712	17 07 56.19	+39 29 20.9	15.6	N	K K73
C/2017 M4	2018 07 14.91394	17 07 55.49	+39 29 14.6	15.5	R	B96
C/2017 M4	2018 07 14.92711	17 07 54.04	+39 28 58.9	15.4	R	B96
C/2017 M4	2018 07 14.94485	17 07 52.15	+39 28 39.9	15.5	N	C90
C/2017 M4	2018 07 14.95422	17 07 51.13	+39 28 27.8	15.4	N	K02
C/2017 M4	2018 07 14.96039	17 07 50.56	+39 28 21.0	15.3	N	K02
C/2017 M4	2018 07 14.96659	17 07 49.90	+39 28 14.1	15.4	N	K02
C/2017 M4	2018 07 14.96963	17 07 49.56	+39 28 11.4	15.5	N	C90
C/2017 M4	2018 07 14.97087	17 07 49.41	+39 28 09.3	16.0	N	K40
C/2017 M4	2018 07 14.97821	17 07 48.61	+39 28 01.0	15.9	N	K40
C/2017 M4	2018 07 14.99104	17 07 47.27	+39 27 47.2	15.4	N	C90
C/2017 M4	2018 07 15.07948	17 07 37.91	+39 26 06.3	15.1	T	9 G40
C/2017 M4	2018 07 15.08044	17 07 37.81	+39 26 05.1	15.1	T	9 G40
C/2017 M4	2018 07 15.08146	17 07 37.73	+39 26 03.9	15.1	T	9 G40
C/2017 M4	2018 07 15.89424	17 06 13.29	+39 10 31.2	15.2	N	C90
C/2017 M4	2018 07 15.89975	17 06 12.68	+39 10 24.7	15.2	N	C90
C/2017 M4	2018 07 15.90641	17 06 12.00	+39 10 17.0	15.2	N	C90
C/2017 M4	2018 07 15.91217	17 06 11.30	+39 10 08.9	15.3	V	K C43
C/2017 M4	2018 07 15.91398	17 06 11.13	+39 10 06.6	15.6	V	K C43
C/2017 M4	2018 07 15.91579	17 06 10.91	+39 10 04.4	15.5	V	K C43
C/2017 M4	2018 07 15.91797	17 06 10.69	+39 10 02.1	15.4	V	K C43
C/2017 M4	2018 07 15.94304	17 06 08.13	+39 09 33.8	15.3	N	C23
C/2017 M4	2018 07 15.95053	17 06 07.34	+39 09 25.2	15.5	N	C23
C/2017 M4	2018 07 15.95727	17 06 06.63	+39 09 17.2	15.4	N	C23
C/2017 M4	2018 07 16.92480	17 04 27.63	+38 50 29.1	16.9	N	K K87
C/2017 M4	2018 07 16.93814	17 04 26.24	+38 50 12.8	15.2	R	B96
C/2017 M4	2018 07 16.93978	17 04 26.06	+38 50 11.1	15.3	R	B96
C/2017 M4	2018 07 16.94141	17 04 25.93	+38 50 09.5	15.3	R	B96
C/2017 M4	2018 07 16.94142	17 04 25.90	+38 50 09.3	16.7	N	K K87
C/2017 M4	2018 07 16.94633	17 04 25.41	+38 50 03.3	15.2	R	B96
C/2017 M4	2018 07 16.95134	17 04 24.95	+38 49 57.3	15.4	R	B96
C/2017 M4	2018 07 16.95803	17 04 24.13	+38 49 49.7	17.1	N	K K87
C/2017 M4	2018 07 16.96573	17 04 23.46	+38 49 41.3	16.4	N	J27
C/2017 M4	2018 07 16.96986	17 04 22.93	+38 49 35.7	16.5	N	J27
C/2017 M4	2018 07 16.97377	17 04 22.63	+38 49 31.7	16.4	N	J27
C/2017 M4	2018 07 16.98149	17 04 21.79	+38 49 22.4	16.7	N	K K87
C/2017 M4	2018 07 17.89714	17 02 49.94	+38 31 18.8	15.3	N	I72
C/2017 M4	2018 07 17.90951	17 02 48.60	+38 31 02.7	15.4	R	B96
C/2017 M4	2018 07 17.91369	17 02 48.29	+38 30 59.4	15.3	N	I72
C/2017 M4	2018 07 17.91605	17 02 47.96	+38 30 55.1	15.4	R	B96
C/2017 M4	2018 07 17.92269	17 02 47.31	+38 30 47.2	15.4	R	B96
C/2017 M4	2018 07 17.93196	17 02 46.43	+38 30 37.4	15.4	N	I72
C/2017 M4	2018 07 18.88319	17 01 12.47	+38 11 32.7	14.9	N	C90
C/2017 M4	2018 07 18.88685	17 01 12.00	+38 11 27.8	14.9	N	C90
C/2017 M4	2018 07 18.88888	17 01 11.92	+38 11 25.6	14.9	N	C90
C/2017 M4	2018 07 18.88931	17 01 11.85	+38 11 25.0	16.6	N	K 160
C/2017 M4	2018 07 18.89206	17 01 11.58	+38 11 21.7	16.6	N	K 160
C/2017 M4	2018 07 18.89482	17 01 11.31	+38 11 18.4	16.5	N	K 160
C/2017 M4	2018 07 18.91013	17 01 09.83	+38 10 59.5	15.1	R	B96
C/2017 M4	2018 07 18.91340	17 01 09.48	+38 10 55.4	15.1	R	B96
C/2017 M4	2018 07 18.91831	17 01 09.02	+38 10 49.5	15.1	R	B96
C/2017 M4	2018 07 18.92330	17 01 08.52	+38 10 43.0	15.1	R	B96
C/2017 M4	2018 07 19.38630	17 00 23.42	+38 01 21.9	15.8	o	T08
C/2017 M4	2018 07 19.39828	17 00 22.25	+38 01 06.7	15.1	o	T08
C/2017 M4	2018 07 19.40356	17 00 21.73	+38 01 00.0	15.1	o	T08
C/2017 M4	2018 07 19.41737	17 00 20.38	+38 00 43.1	15.1	o	T08
C/2017 M4	2018 07 19.86977	16 59 36.97	+37 51 30.4	14.6	N	C90
C/2017 M4	2018 07 19.87178	16 59 36.76	+37 51 28.1	14.6	N	C90
C/2017 M4	2018 07 19.87479	16 59 36.50	+37 51 24.0	14.6	N	C90
C/2017 M4	2018 07 19.87964	16 59 35.97	+37 51 18.6	16.5	N	K 160
C/2017 M4	2018 07 19.88258	16 59 35.69	+37 51 14.9	16.6	N	K 160
C/2017 M4	2018 07 19.88535	16 59 35.41	+37 51 11.3	16.6	N	K 160
C/2017 M4	2018 07 19.94255	16 59 29.90	+37 50 00.3	15.4	N	C23
C/2017 M4	2018 07 19.95004	16 59 29.19	+37 49 51.2	15.8	N	C23
C/2017 M4	2018 07 19.95678	16 59 28.51	+37 49 42.9	15.5	N	C23
C/2017 M4	2018 07 20.06464	16 59 18.28	+37 47 30.6			I15
C/2017 M4	2018 07 20.06680	16 59 18.09	+37 47 28.2			I15
C/2017 M4	2018 07 20.06896	16 59 17.89	+37 47 25.5			I15
C/2017 M4	2018 07 21.00821	16 57 48.85	+37 28 01.8	14.9	N	B53
C/2017 M4	2018 07 21.01221	16 57 48.46	+37 27 56.9	14.8	N	B53
C/2017 M4	2018 07 21.01622	16 57 48.12	+37 27 52.3	14.9	N	B53
C/2017 M4	2018 07 21.02024	16 57 47.74	+37 27 46.7	14.9	N	B53
C/2017 M4	2018 07 21.02424	16 57 47.33	+37 27 41.1	14.8	N	B53
C/2017 M4	2018 07 21.02825	16 57 46.96	+37 27 37.0	14.8	N	B53
C/2017 M4	2018 07 21.03227	16 57 46.59	+37 27 31.6	14.9	N	B53
C/2017 M4	2018 07 21.03628	16 57 46.23	+37 27 27.2	14.8	N	B53
C/2017 M4	2018 07 21.03684	16 57 46.17	+37 27 26.5	15.3	N	212
C/2017 M4	2018 07 21.03828	16 57 46.08	+37 27 24.9	15.3	N	212
C/2017 M4	2018 07 21.03971	16 57 45.90	+37 27 23.4	15.3	N	212
C/2017 M4	2018 07 21.04115	16 57 45.79	+37 27 21.6	15.3	N	212
C/2017 M4	2018 07 21.89633	16 56 26.62	+37 09 31.0	15.0	R	B96
C/2017 M4	2018 07 21.90287	16 56 26.00	+37 09 22.7	15.0	R	B96
C/2017 M4	2018 07 21.90787	16 56 25.54	+37 09 16.5	15.0	R	B96
C/2017 M4	2018 07 21.92062	16 56 24.29	+37 09 00.6	15.1	N	212
C/2017 M4	2018 07 21.92207	16 56 24.18	+37 08 59.1	15.1	N	212
C/2017 M4	2018 07 21.92494	16 56 23.93	+37 08 55.0	15.2	N	212

C/2017 M4	2018 07 21.92638	16 56 23.78	+37 08 53.5	15.1	N		212
C/2017 M4	2018 07 21.92781	16 56 23.71	+37 08 51.9	15.2	N		212
C/2017 M4	2018 07 22.27297	16 55 52.214	+37 01 37.47	16.7	i		F52
C/2017 M4	2018 07 22.28309	16 55 51.273	+37 01 24.67	16.8	i		F52
C/2017 M4	2018 07 22.29326	16 55 50.339	+37 01 11.80	16.9	i		F52
C/2017 M4	2018 07 22.30339	16 55 49.401	+37 00 59.03	16.8	i		F52
C/2017 M4	2018 07 22.38482	16 55 41.82	+36 59 14.5	15.1	o		T08
C/2017 M4	2018 07 22.39591	16 55 40.82	+36 59 00.9	15.6	o		T08
C/2017 M4	2018 07 22.40777	16 55 39.72	+36 58 45.3	15.2	o		T08
C/2017 M4	2018 07 22.41906	16 55 38.68	+36 58 31.0	15.1	o		T08
C/2017 M4	2018 07 22.87988	16 54 57.12	+36 48 46.6	14.9	N		C90
C/2017 M4	2018 07 22.88417	16 54 56.73	+36 48 41.6	14.9	N		C90
C/2017 M4	2018 07 22.88539	16 54 56.63	+36 48 38.2	15.2	N		J01
C/2017 M4	2018 07 22.89794	16 54 55.50	+36 48 22.6	15.2	N		J38
C/2017 M4	2018 07 22.90012	16 54 55.25	+36 48 20.5	14.9	N		C90
C/2017 M4	2018 07 22.90224	16 54 55.15	+36 48 16.5	15.2	N		J38
C/2017 M4	2018 07 22.90381	16 54 54.92	+36 48 15.1	15.2	N		J01
C/2017 M4	2018 07 22.90511	16 54 54.82	+36 48 12.4	15.2	N		J38
C/2017 M4	2018 07 22.91116	16 54 54.27	+36 48 05.7	15.3	N		J01
C/2017 M4	2018 07 23.53649	16 53 58.42	+36 34 46.5			K	D81
C/2017 M4	2018 07 23.54032	16 53 58.06	+36 34 42.2			K	D81
C/2017 M4	2018 07 23.54417	16 53 57.68	+36 34 37.6			K	D81
C/2017 M4	2018 07 23.54811	16 53 57.38	+36 34 31.9	14.5	T	K	D81
C/2017 M4	2018 07 23.87968	16 53 28.17	+36 27 26.7	16.4	N		J27
C/2017 M4	2018 07 23.88038	16 53 28.13	+36 27 26.2	14.6	N		Z39
C/2017 M4	2018 07 23.88354	16 53 27.83	+36 27 21.6	16.5	N		J27
C/2017 M4	2018 07 23.88739	16 53 27.48	+36 27 16.7	16.4	N		J27
C/2017 M4	2018 07 23.88920	16 53 27.39	+36 27 14.6	14.7	N		Z39
C/2017 M4	2018 07 23.89799	16 53 26.52	+36 27 03.0	14.7	N		Z39
C/2017 M4	2018 07 23.91087	16 53 25.33	+36 26 45.5	14.9	N		C90
C/2017 M4	2018 07 23.91758	16 53 24.75	+36 26 37.1	14.9	N		C90
C/2017 M4	2018 07 23.92365	16 53 24.22	+36 26 28.7	14.8	N		C90
C/2017 M4	2018 07 23.93148	16 53 23.59	+36 26 19.2	15.6	N		C23
C/2017 M4	2018 07 23.93347	16 53 23.33	+36 26 16.2	14.7	N		B53
C/2017 M4	2018 07 23.93725	16 53 23.01	+36 26 11.7	15.2	N		C23
C/2017 M4	2018 07 23.93750	16 53 22.95	+36 26 10.9	14.8	N		B53
C/2017 M4	2018 07 23.94152	16 53 22.62	+36 26 05.6	14.8	N		B53
C/2017 M4	2018 07 23.94158	16 53 22.63	+36 26 06.1	15.4	N		C23
C/2017 M4	2018 07 23.94553	16 53 22.23	+36 26 00.5	14.8	N		B53
C/2017 M4	2018 07 23.94954	16 53 21.87	+36 25 55.5	14.7	N		B53
C/2017 M4	2018 07 23.95355	16 53 21.51	+36 25 50.0	14.8	N		B53
C/2017 M4	2018 07 23.95757	16 53 21.16	+36 25 44.9	14.8	N		B53
C/2017 M4	2018 07 23.96157	16 53 20.83	+36 25 39.9	14.9	N		B53
C/2017 M4	2018 07 23.97103	16 53 20.02	+36 25 27.8	15.3	N		K02
C/2017 M4	2018 07 23.97720	16 53 19.52	+36 25 20.1	15.3	N		K02
C/2017 M4	2018 07 23.98493	16 53 18.79	+36 25 09.4	15.3	N		K02
C/2017 M4	2018 07 24.38405	16 52 43.93	+36 16 35.1	15.0	o		T05
C/2017 M4	2018 07 24.39478	16 52 42.92	+36 16 21.9	15.3	o		T05
C/2017 M4	2018 07 24.40653	16 52 41.95	+36 16 06.5	15.0	o		T05
C/2017 M4	2018 07 24.41787	16 52 40.94	+36 15 51.7	15.0	o		T05
C/2017 M4	2018 07 24.97477	16 51 52.86	+36 03 47.4	15.6	N		238
C/2017 M4	2018 07 24.97645	16 51 52.67	+36 03 46.1	16.8	G		C47
C/2017 M4	2018 07 24.98014	16 51 52.46	+36 03 41.5	16.6	G		C47
C/2017 M4	2018 07 24.98415	16 51 52.05	+36 03 35.3	15.7	N		238
C/2017 M4	2018 07 24.98420	16 51 52.09	+36 03 36.2	16.7	G		C47
C/2017 M4	2018 07 24.98826	16 51 51.69	+36 03 30.8	16.8	G		C47
C/2017 M4	2018 07 24.99232	16 51 51.36	+36 03 25.2	15.7	G		C47
C/2017 M4	2018 07 24.99638	16 51 51.06	+36 03 19.5	16.9	G		C47
C/2017 M4	2018 07 24.99642	16 51 50.99	+36 03 19.5	15.7	N		238
C/2017 M4	2018 07 25.87659	16 50 36.40	+35 44 09.9	16.3	N	K	160
C/2017 M4	2018 07 25.87942	16 50 36.16	+35 44 06.2	16.4	N	K	160
C/2017 M4	2018 07 25.88224	16 50 35.91	+35 44 02.5	16.4	N	K	160
C/2017 M4	2018 07 25.97194	16 50 28.29	+35 42 03.4	15.7	N		238
C/2017 M4	2018 07 25.97596	16 50 27.94	+35 41 58.1	15.7	N		238
C/2017 M4	2018 07 25.98145	16 50 27.46	+35 41 50.9	15.8	N		238
C/2017 M4	2018 07 26.37795	16 49 54.42	+35 33 09.9	15.1	o		T08
C/2017 M4	2018 07 26.38843	16 49 53.52	+35 32 56.7	15.6	o		T08
C/2017 M4	2018 07 26.40990	16 49 51.71	+35 32 28.1	15.6	o		T08
C/2017 M4	2018 07 28.36660	16 47 13.27	+34 49 04.7	15.1	o		T05
C/2017 M4	2018 07 28.37532	16 47 12.58	+34 48 53.0	15.0	o		T05
C/2017 M4	2018 07 28.37577	16 47 12.53	+34 48 52.3	15.0	o		T05
C/2017 M4	2018 07 28.37763	16 47 12.38	+34 48 49.6	15.1	o		T05
C/2017 M4	2018 07 28.86968	16 46 33.83	+34 37 48.1	15.4	N		C23
C/2017 M4	2018 07 28.87418	16 46 33.49	+34 37 42.1	15.3	N		C23
C/2017 M4	2018 07 28.87792	16 46 33.16	+34 37 37.0	15.2	N		C23
C/2017 M4	2018 07 29.88022	16 45 15.97	+34 15 02.9	17.0	N	K	L05
C/2017 M4	2018 07 29.88515	16 45 15.58	+34 14 56.4	17.2	N	K	L05
C/2017 M4	2018 07 29.89711	16 45 14.67	+34 14 37.6	14.7	G		595
C/2017 M4	2018 07 29.90874	16 45 13.75	+34 14 22.1	14.7	G		595
C/2017 M4	2018 07 29.91370	16 45 13.42	+34 14 16.2	15.1	N		J38
C/2017 M4	2018 07 29.91471	16 45 13.42	+34 14 17.0	15.3	N		I72
C/2017 M4	2018 07 29.91681	16 45 13.24	+34 14 12.0	15.2	N		J38
C/2017 M4	2018 07 29.91837	16 45 13.10	+34 14 10.1	15.2	N		J38
C/2017 M4	2018 07 29.92038	16 45 12.85	+34 14 06.1	14.7	G		595
C/2017 M4	2018 07 29.93051	16 45 12.19	+34 13 55.3	15.3	N		I72
C/2017 M4	2018 07 29.95534	16 45 10.31	+34 13 21.9	15.3	N		I72
C/2017 M4	2018 07 29.95699	16 45 10.11	+34 13 16.3	15.9	N		238
C/2017 M4	2018 07 29.96538	16 45 09.44	+34 13 05.3	15.9	N		238
C/2017 M4	2018 07 29.97599	16 45 08.60	+34 12 51.4	15.9	N		238
C/2017 M4	2018 07 30.40083	16 44 36.55	+34 03 15.4	15.8	o		T08
C/2017 M4	2018 07 30.41201	16 44 35.73	+34 02 59.4	15.1	o		T08
C/2017 M4	2018 07 30.42363	16 44 34.83	+34 02 43.6	15.1	o		T08
C/2017 M4	2018 07 30.43485	16 44 33.99	+34 02 28.1	15.1	o		T08
C/2017 M4	2018 07 30.86285	16 44 02.25	+33 52 44.6	16.7	N	K	160
C/2017 M4	2018 07 30.86561	16 44 02.06	+33 52 41.7	16.6	N	K	160
C/2017 M4	2018 07 30.86838	16 44 01.84	+33 52 37.7	16.6	N	K	160
C/2017 M4	2018 07 30.88606	16 44 00.50	+33 52 13.2	15.8	N		C23
C/2017 M4	2018 07 30.88700	16 44 00.43	+33 52 11.5	16.2	N		L04
C/2017 M4	2018 07 30.89354	16 43 59.93	+33 52 02.7	15.8	N		C23
C/2017 M4	2018 07 30.89843	16 43 59.58	+33 51 56.4	15.6	G		L07
C/2017 M4	2018 07 30.89853	16 43 59.48	+33 51 56.1	16.0	N		L04
C/2017 M4	2018 07 30.90028	16 43 59.48	+33 51 53.7	15.7	N		C23
C/2017 M4	2018 07 30.90035	16 43 59.45	+33 51 54.0	15.2	N		C86
C/2017 M4	2018 07 30.90332	16 43 59.22	+33 51 50.0	15.3	N		C86
C/2017 M4	2018 07 30.90480	16 43 59.14	+33 51 47.7	15.2	N		C86
C/2017 M4	2018 07 30.90966	16 43 58.71	+33 51 40.7	16.2	N		L04

C/2017 M4	2018 07 30.94560	16 43 56.09	+33 50 51.8	15.7 G		L07
C/2017 M4	2018 07 30.95562	16 43 55.34	+33 50 38.5	15.1 N		Z55
C/2017 M4	2018 07 30.95881	16 43 55.13	+33 50 34.2	15.1 N		Z55
C/2017 M4	2018 07 30.95947	16 43 55.07	+33 50 33.6	15.2 N		Z55
C/2017 M4	2018 07 30.96019	16 43 55.01	+33 50 32.5	15.1 N		Z55
C/2017 M4	2018 07 30.99907	16 43 52.10	+33 49 38.5	15.7 G		L07
C/2017 M4	2018 07 31.00312	16 43 51.81	+33 49 32.3	14.8 N		I81
C/2017 M4	2018 07 31.00613	16 43 51.58	+33 49 28.2	14.7 N		I81
C/2017 M4	2018 07 31.00990	16 43 51.30	+33 49 23.1	14.7 N		I81
C/2017 M4	2018 07 31.63362	16 43 05.63	+33 35 09.4	14.1 T		349
C/2017 M4	2018 07 31.64083	16 43 05.12	+33 34 59.6			349
C/2017 M4	2018 07 31.64804	16 43 04.59	+33 34 49.6			349
C/2017 M4	2018 07 31.86139	16 42 49.29	+33 29 57.4	16.5 N		K 160
C/2017 M4	2018 07 31.86421	16 42 49.09	+33 29 53.5	16.5 N		K 160
C/2017 M4	2018 07 31.86703	16 42 48.88	+33 29 49.3	16.8 N		K 160
C/2017 M4	2018 07 31.88339	16 42 47.64	+33 29 26.0	15.7 G		L07
C/2017 M4	2018 07 31.92904	16 42 44.39	+33 28 23.5	15.4 N		K02
C/2017 M4	2018 07 31.93488	16 42 43.96	+33 28 15.3	15.4 N		K02
C/2017 M4	2018 07 31.93575	16 42 43.83	+33 28 13.8	15.7 G		L07
C/2017 M4	2018 07 31.94073	16 42 43.54	+33 28 07.3	15.4 N		K02
C/2017 M4	2018 07 31.95260	16 42 42.67	+33 27 51.4	14.9 R		C27
C/2017 M4	2018 07 31.97736	16 42 40.85	+33 27 17.3	15.1 R		C27
C/2017 M4	2018 07 31.98825	16 42 40.04	+33 27 01.8	15.0 R		C27
C/2017 M4	2018 07 31.99156	16 42 39.78	+33 26 56.7	15.6 G		L07
C/2017 M4	2018 07 31.99443	16 42 39.61	+33 26 53.5	15.0 R		C27
C/2017 M4	2018 08 01.38026	16 42 12.23	+33 18 03.1	18 R		C51
Geocentric position (km)		− 2845.1091	− 5049.0865	+ 3658.9684		
C/2017 M4	2018 08 01.64194	16 41 53.72	+33 12 02.3			C51
Geocentric position (km)		− 2828.1725	− 5087.9124	+ 3618.4950		
C/2017 M4	2018 08 01.70739	16 41 49.15	+33 10 31.9			C51
Geocentric position (km)		− 2821.3127	− 5086.5086	+ 3625.7970		
C/2017 M4	2018 08 01.82911	16 41 40.44	+33 07 42.8	15.2 N		B53
C/2017 M4	2018 08 01.83714	16 41 40.01	+33 07 33.7	13.9 N		B53
C/2017 M4	2018 08 01.84115	16 41 39.61	+33 07 26.3	15.6 N		B53
C/2017 M4	2018 08 01.84515	16 41 39.37	+33 07 21.3	16.2 N		B53
C/2017 M4	2018 08 01.84914	16 41 39.03	+33 07 15.4	16.2 N		B53
C/2017 M4	2018 08 01.85314	16 41 38.74	+33 07 08.6	16.2 N		B53
C/2017 M4	2018 08 01.85714	16 41 38.43	+33 07 04.4	16.2 N		B53
C/2017 M4	2018 08 01.89166	16 41 36.14	+33 06 17.0	16.3 R		B96
C/2017 M4	2018 08 01.89656	16 41 35.77	+33 06 10.0	16.2 R		B96
C/2017 M4	2018 08 01.90156	16 41 35.41	+33 06 03.4	16.2 R		B96
C/2017 M4	2018 08 01.95436	16 41 31.65	+33 04 50.9	15.3 N		20G40
C/2017 M4	2018 08 01.95634	16 41 31.52	+33 04 48.2	15.2 N		20G40
C/2017 M4	2018 08 01.96919	16 41 30.70	+33 04 29.3			C51
Geocentric position (km)		− 2793.8739	− 5080.6150	+ 3655.1350		
C/2017 M4	2018 08 02.03452	16 41 26.15	+33 02 59.9			C51
Geocentric position (km)		− 2797.0983	− 5123.7337	+ 3592.1109		
C/2017 M4	2018 08 02.09997	16 41 21.61	+33 01 28.7			C51
Geocentric position (km)		− 2790.2379	− 5122.2807	+ 3599.5011		
C/2017 M4	2018 08 02.29632	16 41 07.97	+32 56 57.2			C51
Geocentric position (km)		− 2769.6774	− 5117.8505	+ 3621.5673		
C/2017 M4	2018 08 02.49255	16 40 54.36	+32 52 24.5			C51
Geocentric position (km)		− 2758.7486	− 5157.7578	+ 3573.1186		
C/2017 M4	2018 08 02.87270	16 40 28.32	+32 43 36.6	15.8 R		B96
C/2017 M4	2018 08 02.87571	16 40 28.09	+32 43 29.1	15.2 N		A98
C/2017 M4	2018 08 02.87597	16 40 28.10	+32 43 32.1	15.9 R		B96
C/2017 M4	2018 08 02.87924	16 40 27.87	+32 43 27.6	16.0 R		B96
C/2017 M4	2018 08 02.87925	16 40 27.73	+32 43 25.4	15.6 N		A98
C/2017 M4	2018 08 02.88071	16 40 27.78	+32 43 25.4	15.4 N		C10
C/2017 M4	2018 08 02.88191	16 40 27.57	+32 43 22.6	14.9 N		A98
C/2017 M4	2018 08 02.88279	16 40 27.45	+32 43 20.7	14.8 N		A98
C/2017 M4	2018 08 02.89051	16 40 26.84	+32 43 10.0	14.8 N		A98
C/2017 M4	2018 08 02.89140	16 40 26.87	+32 43 09.6	15.1 N		A98
C/2017 M4	2018 08 02.89847	16 40 26.41	+32 42 58.1	15.2 N		A98
C/2017 M4	2018 08 02.90289	16 40 26.21	+32 42 54.7	15.4 N		C10
C/2017 M4	2018 08 02.92382	16 40 24.85	+32 42 25.8	15.2 N		J38
C/2017 M4	2018 08 02.92538	16 40 24.73	+32 42 23.4	15.2 N		J38
C/2017 M4	2018 08 02.92916	16 40 24.43	+32 42 18.1	15.4 N		C10
C/2017 M4	2018 08 02.93163	16 40 24.23	+32 42 14.1	15.2 N		J38
C/2017 M4	2018 08 02.98617	16 40 20.53	+32 40 58.4	15.4 N		K02
C/2017 M4	2018 08 02.99237	16 40 20.09	+32 40 49.4	15.4 N		K02
C/2017 M4	2018 08 03.00010	16 40 19.62	+32 40 39.2	15.4 N		K02
C/2017 M4	2018 08 03.35565	16 39 55.56	+32 32 25.0	15.1 o		T08
C/2017 M4	2018 08 03.36665	16 39 54.82	+32 32 09.6	15.1 o		T08
C/2017 M4	2018 08 03.37737	16 39 54.04	+32 31 55.0	15.5 o		T08
C/2017 M4	2018 08 03.85882	16 39 22.14	+32 20 43.1	16.9 G		C47
C/2017 M4	2018 08 03.86583	16 39 21.69	+32 20 33.4	16.7 G		C47
C/2017 M4	2018 08 03.87321	16 39 21.17	+32 20 22.8	16.9 G		C47
C/2017 M4	2018 08 03.87956	16 39 20.75	+32 20 14.0	16.5 R		B96
C/2017 M4	2018 08 03.88059	16 39 20.62	+32 20 12.5	16.0 G		C47
C/2017 M4	2018 08 03.88259	16 39 20.47	+32 20 10.2	16.5 N		K 160
C/2017 M4	2018 08 03.88446	16 39 20.44	+32 20 07.0	16.5 R		B96
C/2017 M4	2018 08 03.88530	16 39 20.36	+32 20 06.4	16.5 N		K 160
C/2017 M4	2018 08 03.88797	16 39 20.12	+32 20 02.0	17.1 G		C47
C/2017 M4	2018 08 03.88803	16 39 20.18	+32 20 02.7	16.4 N		K 160
C/2017 M4	2018 08 03.88946	16 39 20.10	+32 20 00.3	16.5 R		B96
C/2017 M4	2018 08 03.89536	16 39 19.72	+32 19 51.7	16.9 G		C47
C/2017 M4	2018 08 03.93745	16 39 16.85	+32 18 54.2	15.3 N		J22
C/2017 M4	2018 08 03.94148	16 39 16.57	+32 18 48.4	15.3 N		J22
C/2017 M4	2018 08 03.94550	16 39 16.38	+32 18 43.1	15.3 N		J22
C/2017 M4	2018 08 04.51297	16 38 39.22	+32 05 28.7			K 367
C/2017 M4	2018 08 04.51581	16 38 39.03	+32 05 24.6			K 367
C/2017 M4	2018 08 04.51743	16 38 38.93	+32 05 22.2	14.3 T		K 367
C/2017 M4	2018 08 04.96606	16 38 10.01	+31 54 53.1	15.3 N		J01
C/2017 M4	2018 08 04.97701	16 38 09.29	+31 54 37.4	15.3 N		J01
C/2017 M4	2018 08 04.98580	16 38 08.70	+31 54 24.4	15.4 N		K02
C/2017 M4	2018 08 04.98795	16 38 08.57	+31 54 21.4	15.3 N		J01
C/2017 M4	2018 08 04.98889	16 38 08.51	+31 54 20.5	15.4 N		K02
C/2017 M4	2018 08 04.99198	16 38 08.33	+31 54 16.2	15.3 N		K02
C/2017 M4	2018 08 05.37207	16 37 44.12	+31 45 23.3	15.4 c		T05
C/2017 M4	2018 08 05.38219	16 37 43.46	+31 45 08.8	15.6 c		T05
C/2017 M4	2018 08 05.38610	16 37 43.21	+31 45 03.2	15.4 c		T05
C/2017 M4	2018 08 05.39243	16 37 42.82	+31 44 54.6	15.4 c		T05
C/2017 M4	2018 08 05.39638	16 37 42.57	+31 44 48.9	15.4 c		T05
C/2017 M4	2018 08 05.40287	16 37 42.14	+31 44 39.8	15.4 c		T05
C/2017 M4	2018 08 05.40680	16 37 41.91	+31 44 33.9	15.4 c		T05

C/2017 M4	2018 08 05.53227	16 37 34.06	+31 41 37.9	14.5	T		Q11
C/2017 M4	2018 08 05.54083	16 37 33.50	+31 41 26.0				Q11
C/2017 M4	2018 08 05.54941	16 37 32.94	+31 41 13.8				Q11
C/2017 M4	2018 08 05.84072	16 37 14.82	+31 34 24.6	17.1	N	K	L05
C/2017 M4	2018 08 05.85089	16 37 14.15	+31 34 10.1	16.5	N	K	160
C/2017 M4	2018 08 05.85168	16 37 14.13	+31 34 09.5	17.0	N	K	L05
C/2017 M4	2018 08 05.85368	16 37 13.97	+31 34 06.1	16.5	N	K	160
C/2017 M4	2018 08 05.85648	16 37 13.82	+31 34 02.3	16.4	N	K	160
C/2017 M4	2018 08 05.85964	16 37 13.60	+31 33 57.7	17.1	N	K	L05
C/2017 M4	2018 08 05.86675	16 37 13.09	+31 33 46.8	16.6	V		K40
C/2017 M4	2018 08 05.87160	16 37 12.86	+31 33 41.0	17.0	N	K	L05
C/2017 M4	2018 08 05.87215	16 37 12.83	+31 33 39.7	16.6	V		K40
C/2017 M4	2018 08 05.87611	16 37 12.63	+31 33 34.2	16.5	R		B96
C/2017 M4	2018 08 05.88102	16 37 12.29	+31 33 27.1	16.4	R		B96
C/2017 M4	2018 08 05.88601	16 37 11.98	+31 33 19.9	16.5	R		B96
C/2017 M4	2018 08 05.88670	16 37 11.91	+31 33 19.0	15.5	N		C23
C/2017 M4	2018 08 05.89392	16 37 11.44	+31 33 08.8	15.4	N		C23
C/2017 M4	2018 08 05.90258	16 37 10.92	+31 32 56.6	15.4	N		C23
C/2017 M4	2018 08 05.91369	16 37 10.23	+31 32 41.5	15.4	N		213
C/2017 M4	2018 08 05.92566	16 37 09.47	+31 32 24.7	15.3	N		J38
C/2017 M4	2018 08 05.92624	16 37 09.43	+31 32 23.4	15.5	N		213
C/2017 M4	2018 08 05.92729	16 37 09.38	+31 32 21.8	15.2	N		J38
C/2017 M4	2018 08 05.93053	16 37 09.15	+31 32 18.1	15.3	N		J38
C/2017 M4	2018 08 05.94127	16 37 08.39	+31 32 03.3	15.5	N		213
C/2017 M4	2018 08 05.97400	16 37 06.50	+31 31 17.7	15.3	N		I72
C/2017 M4	2018 08 05.98941	16 37 05.56	+31 30 56.0	15.3	N		I72
C/2017 M4	2018 08 05.99535	16 37 05.07	+31 30 45.1	15.4	N		K02
C/2017 M4	2018 08 06.00306	16 37 04.66	+31 30 34.8	15.4	N		K02
C/2017 M4	2018 08 06.00446	16 37 04.63	+31 30 34.6	15.3	N		I72
C/2017 M4	2018 08 06.01160	16 37 04.12	+31 30 22.7	15.4	N		K02
C/2017 M4	2018 08 06.05823	16 37 01.29	+31 29 17.6				I15
C/2017 M4	2018 08 06.06254	16 37 01.02	+31 29 11.6				I15
C/2017 M4	2018 08 06.06685	16 37 00.75	+31 29 05.4				I15
C/2017 M4	2018 08 06.84828	16 36 12.99	+31 10 43.3	16.5	N	K	160
C/2017 M4	2018 08 06.85111	16 36 12.84	+31 10 39.0	16.5	N	K	160
C/2017 M4	2018 08 06.85397	16 36 12.67	+31 10 35.4	16.4	N	K	160
C/2017 M4	2018 08 06.87565	16 36 11.36	+31 10 03.9	16.5	R		B96
C/2017 M4	2018 08 06.88056	16 36 11.06	+31 09 57.3	16.5	R		B96
C/2017 M4	2018 08 06.88556	16 36 10.75	+31 09 49.9	16.0	R		B96
C/2017 M4	2018 08 07.86873	16 35 12.43	+30 46 39.2	14.9	N		Z55
C/2017 M4	2018 08 07.86964	16 35 12.27	+30 46 37.6	14.9	N		Z55
C/2017 M4	2018 08 07.87028	16 35 12.41	+30 46 37.1	15.6	N		Z55
C/2017 M4	2018 08 07.87089	16 35 12.31	+30 46 37.4	14.9	N		Z55
C/2017 M4	2018 08 07.96911	16 35 06.54	+30 44 18.2	15.4	N		I72
C/2017 M4	2018 08 07.98406	16 35 05.65	+30 43 57.2	15.4	N		I72
C/2017 M4	2018 08 07.99882	16 35 04.81	+30 43 35.6	15.4	N		I72
C/2017 M4	2018 08 08.86752	16 34 15.01	+30 23 01.8	16.7	R		B96
C/2017 M4	2018 08 08.87243	16 34 14.76	+30 22 54.6	16.5	R		B96
C/2017 M4	2018 08 08.87906	16 34 14.36	+30 22 45.1	16.6	R		B96
C/2017 M4	2018 08 08.93468	16 34 11.18	+30 21 25.3	14.7	N		I81
C/2017 M4	2018 08 08.93955	16 34 10.91	+30 21 18.5	14.7	N		I81
C/2017 M4	2018 08 08.96102	16 34 09.73	+30 20 48.1	14.8	N		I81
C/2017 M4	2018 08 09.36860	16 33 46.77	+30 11 10.1	16.2	c		T05
C/2017 M4	2018 08 09.37942	16 33 46.19	+30 10 53.7	16.4	c		T05
C/2017 M4	2018 08 09.39074	16 33 45.62	+30 10 37.3	15.4	c		T05
C/2017 M4	2018 08 09.40132	16 33 45.02	+30 10 23.3	16.4	c		T05
C/2017 M4	2018 08 09.43455	16 33 43.07	+30 09 37.1	16.6	G		Q38
C/2017 M4	2018 08 09.43750	16 33 43.12	+30 09 34.3	16.2	G		Q38
C/2017 M4	2018 08 09.44044	16 33 43.05	+30 09 30.5	16.0	G		Q38
C/2017 M4	2018 08 09.87024	16 33 19.29	+29 59 15.4	15.3	N		I72
C/2017 M4	2018 08 09.87660	16 33 18.89	+29 59 05.2	14.8	V	K	K73
C/2017 M4	2018 08 09.88468	16 33 18.52	+29 58 53.8	15.2	V	K	K73
C/2017 M4	2018 08 09.88516	16 33 18.43	+29 58 54.3	16.5	N	K	160
C/2017 M4	2018 08 09.88646	16 33 18.41	+29 58 52.4	15.4	N		I72
C/2017 M4	2018 08 09.88784	16 33 18.28	+29 58 50.4	16.5	N	K	160
C/2017 M4	2018 08 09.89054	16 33 18.17	+29 58 46.7	16.5	N	K	160
C/2017 M4	2018 08 09.89330	16 33 18.00	+29 58 41.9	14.9	V	K	K73
C/2017 M4	2018 08 09.90981	16 33 17.12	+29 58 19.0	15.3	N		I72
C/2017 M4	2018 08 09.92308	16 33 16.37	+29 57 59.5	14.7	N		I81
C/2017 M4	2018 08 09.94541	16 33 15.15	+29 57 27.6	14.7	N		I81
C/2017 M4	2018 08 09.94975	16 33 14.91	+29 57 21.3	14.7	N		I81
C/2017 M4	2018 08 10.04424	16 33 09.83	+29 55 07.3				I15
C/2017 M4	2018 08 10.04716	16 33 09.64	+29 55 01.9				I15
C/2017 M4	2018 08 10.05009	16 33 09.50	+29 54 57.7				I15
C/2017 M4	2018 08 10.81431	16 32 28.60	+29 36 49.9	15.6	N		A98
C/2017 M4	2018 08 10.81519	16 32 28.41	+29 36 47.2	15.4	N		A98
C/2017 M4	2018 08 10.81785	16 32 28.33	+29 36 43.4	15.8	N		A98
C/2017 M4	2018 08 10.82051	16 32 28.11	+29 36 40.5	15.5	N		A98
C/2017 M4	2018 08 10.82140	16 32 28.04	+29 36 38.0	15.6	N		A98
C/2017 M4	2018 08 10.83131	16 32 27.74	+29 36 22.0	15.5	N		A98
C/2017 M4	2018 08 10.89922	16 32 24.10	+29 34 49.1	15.4	N		J22
C/2017 M4	2018 08 10.90334	16 32 23.90	+29 34 43.6	15.4	N		J22
C/2017 M4	2018 08 10.90727	16 32 23.67	+29 34 38.4	15.4	N		J22
C/2017 M4	2018 08 10.95203	16 32 21.22	+29 33 32.3	15.1	N		L27
C/2017 M4	2018 08 10.97300	16 32 20.14	+29 33 03.0	15.1	N		L27
C/2017 M4	2018 08 10.98550	16 32 19.52	+29 32 44.9	15.4	N		K02
C/2017 M4	2018 08 10.99167	16 32 19.17	+29 32 35.7	15.4	N		K02
C/2017 M4	2018 08 10.99760	16 32 18.80	+29 32 27.6	15.1	N		L27
C/2017 M4	2018 08 10.99940	16 32 18.74	+29 32 24.9	15.4	N		K02
C/2017 M4	2018 08 11.33309	16 32 01.33	+29 24 29.8	15.7	o		T08
C/2017 M4	2018 08 11.34181	16 32 00.87	+29 24 16.8	15.1	o		T08
C/2017 M4	2018 08 11.35081	16 32 00.40	+29 24 04.0	15.1	o		T08
C/2017 M4	2018 08 11.36171	16 31 59.83	+29 23 48.3	15.1	o		T08
C/2017 M4	2018 08 11.83909	16 31 35.40	+29 12 26.8	16.1	N	K	A77
C/2017 M4	2018 08 11.84224	16 31 35.18	+29 12 21.7	16.1	N	K	A77
C/2017 M4	2018 08 11.84565	16 31 35.07	+29 12 17.5	16.1	N	K	A77
C/2017 M4	2018 08 11.85011	16 31 34.80	+29 12 10.9	16.1	N	K	A77
C/2017 M4	2018 08 11.85301	16 31 34.68	+29 12 06.7	17.0	N		L05
C/2017 M4	2018 08 11.85404	16 31 34.62	+29 12 05.0	16.1	N	K	A77
C/2017 M4	2018 08 11.85596	16 31 34.46	+29 12 01.9	16.0	R		B53
C/2017 M4	2018 08 11.85964	16 31 34.26	+29 11 56.6	16.1	R		B53
C/2017 M4	2018 08 11.86097	16 31 34.30	+29 11 55.4	17.0	N		L05
C/2017 M4	2018 08 11.86333	16 31 34.09	+29 11 51.6	14.9	R		B53
C/2017 M4	2018 08 11.86701	16 31 33.85	+29 11 46.1	16.1	R		B53
C/2017 M4	2018 08 11.86894	16 31 33.84	+29 11 43.9	17.0	N		L05
C/2017 M4	2018 08 11.87071	16 31 33.67	+29 11 40.6	16.1	R		B53

C/2017 M4	2018 08 11.87439	16 31 33.57	+29 11 36.6	15.9	R	B53
C/2017 M4	2018 08 11.87690	16 31 33.38	+29 11 32.7	16.9	N	L05
C/2017 M4	2018 08 11.87808	16 31 33.37	+29 11 31.2	16.0	R	B53
C/2017 M4	2018 08 11.88175	16 31 33.14	+29 11 25.6	16.0	R	B53
C/2017 M4	2018 08 11.92416	16 31 30.99	+29 10 24.3	16.0	R	K 215
C/2017 M4	2018 08 11.92545	16 31 30.92	+29 10 22.3	15.7	R	K 215
C/2017 M4	2018 08 11.92673	16 31 30.85	+29 10 20.6	16.0	R	K 215
C/2017 M4	2018 08 11.96620	16 31 28.82	+29 09 24.4	17.1	G	K C47
C/2017 M4	2018 08 11.96989	16 31 28.66	+29 09 19.1	16.9	G	K C47
C/2017 M4	2018 08 11.97358	16 31 28.45	+29 09 14.1	17.0	G	K C47
C/2017 M4	2018 08 11.97727	16 31 28.31	+29 09 08.2	16.3	G	K C47
C/2017 M4	2018 08 11.98096	16 31 28.10	+29 09 03.3	17.2	G	K C47
C/2017 M4	2018 08 11.98576	16 31 27.92	+29 08 56.2	16.5	G	K C47
C/2017 M4	2018 08 12.83740	16 30 45.47	+28 48 40.1	16.4	V	A71
C/2017 M4	2018 08 12.83883	16 30 45.39	+28 48 38.0	16.3	V	A71
C/2017 M4	2018 08 12.84027	16 30 45.31	+28 48 35.9	16.4	V	A71
C/2017 M4	2018 08 12.84137	16 30 45.23	+28 48 34.1	16.7	N	K 160
C/2017 M4	2018 08 12.84171	16 30 45.24	+28 48 33.9	16.4	V	A71
C/2017 M4	2018 08 12.84315	16 30 45.17	+28 48 31.8	16.3	V	A71
C/2017 M4	2018 08 12.84458	16 30 45.10	+28 48 29.7	16.3	V	A71
C/2017 M4	2018 08 12.84528	16 30 45.04	+28 48 28.5	16.6	N	K 160
C/2017 M4	2018 08 12.84602	16 30 45.02	+28 48 27.9	16.3	V	A71
C/2017 M4	2018 08 12.84936	16 30 44.85	+28 48 22.5	16.5	N	K 160
C/2017 M4	2018 08 12.85156	16 30 44.75	+28 48 20.0	15.4	N	Z55
C/2017 M4	2018 08 12.85344	16 30 44.67	+28 48 17.1	15.3	N	Z55
C/2017 M4	2018 08 12.85456	16 30 44.57	+28 48 14.8	16.8	G	C47
C/2017 M4	2018 08 12.85516	16 30 44.61	+28 48 14.6	15.3	N	Z55
C/2017 M4	2018 08 12.85586	16 30 44.56	+28 48 13.4	15.4	N	Z55
C/2017 M4	2018 08 12.86084	16 30 44.29	+28 48 05.8	17.0	G	C47
C/2017 M4	2018 08 12.88077	16 30 43.28	+28 47 37.5	16.2	G	C47
C/2017 M4	2018 08 14.87047	16 29 09.37	+28 00 11.8	15.4	N	I72
C/2017 M4	2018 08 14.88992	16 29 08.48	+27 59 44.1	15.4	N	I72
C/2017 M4	2018 08 14.90910	16 29 07.58	+27 59 16.5	15.4	N	I72
C/2017 M4	2018 08 15.83924	16 28 26.12	+27 37 04.0	16.5	N	K 160
C/2017 M4	2018 08 15.84203	16 28 26.00	+27 37 00.0	16.5	N	K 160
C/2017 M4	2018 08 15.84481	16 28 25.86	+27 36 56.1	16.5	N	K 160
C/2017 M4	2018 08 15.85903	16 28 25.21	+27 36 34.5	15.7	N	C23
C/2017 M4	2018 08 15.86769	16 28 24.84	+27 36 22.4	15.6	N	C23
C/2017 M4	2018 08 15.87491	16 28 24.53	+27 36 12.1	15.9	N	C23
C/2017 M4	2018 08 15.88170	16 28 24.30	+27 36 03.5	15.5	N	9 G40
C/2017 M4	2018 08 15.88472	16 28 24.15	+27 35 59.1	15.5	N	9 G40
C/2017 M4	2018 08 15.88914	16 28 23.93	+27 35 52.9	15.5	N	9 G40
C/2017 M4	2018 08 15.89707	16 28 23.58	+27 35 41.6	15.6	N	9 G40
C/2017 M4	2018 08 15.92404	16 28 22.33	+27 35 01.8	15.3	N	212
C/2017 M4	2018 08 15.92691	16 28 22.22	+27 34 57.6	15.4	N	212
C/2017 M4	2018 08 15.93122	16 28 22.05	+27 34 51.1	15.3	N	212
C/2017 M4	2018 08 16.82631	16 27 43.83	+27 13 30.4	16.7	G	C47
C/2017 M4	2018 08 16.83147	16 27 43.59	+27 13 23.0	16.1	G	C47
C/2017 M4	2018 08 16.83701	16 27 43.36	+27 13 15.2	16.8	G	C47
C/2017 M4	2018 08 16.84254	16 27 43.09	+27 13 07.4	16.6	G	C47
C/2017 M4	2018 08 16.84808	16 27 42.89	+27 12 59.3	17.0	G	C47
C/2017 M4	2018 08 16.85362	16 27 42.60	+27 12 51.1	16.9	G	C47
C/2017 M4	2018 08 16.85461	16 27 42.63	+27 12 50.2	16.5	N	K 160
C/2017 M4	2018 08 16.85877	16 27 42.38	+27 12 44.3	16.6	N	K 160
C/2017 M4	2018 08 16.86290	16 27 42.24	+27 12 38.6	16.4	N	K 160
C/2017 M4	2018 08 16.94267	16 27 38.81	+27 10 44.1	15.1	N	212
C/2017 M4	2018 08 16.94699	16 27 38.69	+27 10 37.8	15.1	N	212
C/2017 M4	2018 08 16.94986	16 27 38.51	+27 10 33.3	15.1	N	212
C/2017 M4	2018 08 16.96517	16 27 37.93	+27 10 10.9	15.4	N	K02
C/2017 M4	2018 08 16.97134	16 27 37.67	+27 10 02.5	15.4	N	K02
C/2017 M4	2018 08 16.97907	16 27 37.37	+27 09 51.5	15.4	N	K02
C/2017 M4	2018 08 17.32286	16 27 23.07	+27 01 40.9	16.0	o	T05
C/2017 M4	2018 08 17.32877	16 27 22.83	+27 01 32.4	16.1	o	T05
C/2017 M4	2018 08 17.32924	16 27 22.81	+27 01 31.8	16.0	o	T05
C/2017 M4	2018 08 17.33676	16 27 22.49	+27 01 20.5	15.1	o	T05
C/2017 M4	2018 08 17.33789	16 27 22.43	+27 01 18.7	15.1	o	T05
C/2017 M4	2018 08 17.34526	16 27 22.13	+27 01 08.2	15.1	o	T05
C/2017 M4	2018 08 17.35545	16 27 21.69	+27 00 54.0	15.1	o	T05
C/2017 M4	2018 08 17.81983	16 27 02.83	+26 49 48.3	16.0	R	B53
C/2017 M4	2018 08 17.82380	16 27 02.74	+26 49 43.9	15.9	R	B53
C/2017 M4	2018 08 17.82777	16 27 02.52	+26 49 37.9	15.3	R	B53
C/2017 M4	2018 08 17.83175	16 27 02.36	+26 49 32.6	15.0	R	B53
C/2017 M4	2018 08 17.83574	16 27 02.22	+26 49 27.2	15.9	R	B53
C/2017 M4	2018 08 17.83971	16 27 02.07	+26 49 20.4	16.0	R	B53
C/2017 M4	2018 08 17.84978	16 27 01.66	+26 49 06.8	16.6	N	K 160
C/2017 M4	2018 08 17.85257	16 27 01.55	+26 49 02.9	16.5	N	K 160
C/2017 M4	2018 08 17.85535	16 27 01.43	+26 48 58.6	15.7	N	K 160
C/2017 M4	2018 08 17.86870	16 27 00.95	+26 48 39.0	15.7	R	B96
C/2017 M4	2018 08 17.87197	16 27 00.81	+26 48 35.1	15.8	R	B96
C/2017 M4	2018 08 17.87382	16 27 00.76	+26 48 34.3	15.3	N	I72
C/2017 M4	2018 08 17.87524	16 27 00.65	+26 48 30.3	15.7	R	B96
C/2017 M4	2018 08 17.88024	16 27 00.46	+26 48 22.2	15.7	R	B96
C/2017 M4	2018 08 17.89652	16 26 59.77	+26 48 01.1	15.3	N	I72
C/2017 M4	2018 08 17.93307	16 26 58.40	+26 47 08.8	15.3	N	I72
C/2017 M4	2018 08 18.82348	16 26 23.24	+26 25 54.6	15.3	N	K 160
C/2017 M4	2018 08 18.82639	16 26 23.20	+26 25 51.5	16.7	N	K 160
C/2017 M4	2018 08 18.82932	16 26 23.06	+26 25 46.9	16.4	N	K 160
C/2017 M4	2018 08 18.93067	16 26 19.05	+26 23 21.4	15.1	N	212
C/2017 M4	2018 08 18.93354	16 26 18.94	+26 23 17.9	15.1	N	212
C/2017 M4	2018 08 18.93855	16 26 18.80	+26 23 10.0	15.2	N	212
C/2017 M4	2018 08 19.90840	16 25 42.34	+26 00 04.3	14.6	G	K 104
C/2017 M4	2018 08 19.91991	16 25 41.95	+25 59 48.0	14.6	G	K 104
C/2017 M4	2018 08 20.86812	16 25 07.86	+25 37 18.2	16.4	N	K 160
C/2017 M4	2018 08 20.87351	16 25 07.66	+25 37 10.4	16.6	N	K 160
C/2017 M4	2018 08 20.87891	16 25 07.44	+25 37 02.6	15.6	N	K 160
C/2017 M4	2018 08 21.29694	16 24 52.87	+25 27 07.5	15.0	o	T05
C/2017 M4	2018 08 21.30393	16 24 52.62	+25 26 57.5	15.1	o	T05
C/2017 M4	2018 08 21.30957	16 24 52.42	+25 26 49.5	15.1	o	T05
C/2017 M4	2018 08 21.31644	16 24 52.18	+25 26 39.6	15.1	o	T05
C/2017 M4	2018 08 21.84420	16 24 34.28	+25 14 09.1	15.3	N	212
C/2017 M4	2018 08 21.84851	16 24 34.12	+25 14 02.9	15.3	N	212
C/2017 M4	2018 08 21.85426	16 24 33.91	+25 13 54.7	15.3	N	212
C/2017 M4	2018 08 21.85856	16 24 33.78	+25 13 48.7	15.2	N	212
C/2017 M4	2018 08 22.82770	16 24 02.02	+24 50 51.8	16.9	G	K C47
C/2017 M4	2018 08 22.83139	16 24 01.89	+24 50 46.7	16.8	G	K C47
C/2017 M4	2018 08 22.83508	16 24 01.75	+24 50 41.6	16.8	G	K C47

C/2017 M4	2018 08 22.83877	16 24 01.62	+24 50 36.0	15.9	G	K	C47
C/2017 M4	2018 08 22.84357	16 24 01.49	+24 50 29.2	16.9	G	K	C47
C/2017 M4	2018 08 22.86145	16 24 00.88	+24 50 03.9	14.7	N		585
C/2017 M4	2018 08 22.86216	16 24 00.91	+24 50 03.1	14.7	N		585
C/2017 M4	2018 08 22.86287	16 24 00.85	+24 50 02.0	14.7	N		585
C/2017 M4	2018 08 22.86358	16 24 00.82	+24 50 00.9	14.7	N		585
C/2017 M4	2018 08 22.86428	16 24 00.79	+24 49 59.7	14.8	N		585
C/2017 M4	2018 08 22.86499	16 24 00.77	+24 49 58.6	14.7	N		585
C/2017 M4	2018 08 22.86570	16 24 00.75	+24 49 57.7	14.8	N		585
C/2017 M4	2018 08 22.86640	16 24 00.73	+24 49 56.7	14.7	N		585
C/2017 M4	2018 08 22.86711	16 24 00.70	+24 49 55.7	14.7	N		585
C/2017 M4	2018 08 22.86782	16 24 00.68	+24 49 54.6	14.7	N		585
C/2017 M4	2018 08 22.86853	16 24 00.66	+24 49 53.7	14.7	N		585
C/2017 M4	2018 08 22.86923	16 24 00.64	+24 49 52.8	14.7	N		585
C/2017 M4	2018 08 22.86994	16 24 00.61	+24 49 51.7	14.7	N		585
C/2017 M4	2018 08 22.87065	16 24 00.59	+24 49 50.6	14.8	N		585
C/2017 M4	2018 08 22.87136	16 24 00.58	+24 49 49.5	14.8	N		585
C/2017 M4	2018 08 22.87207	16 24 00.54	+24 49 48.6	14.9	N		585
C/2017 M4	2018 08 22.87277	16 24 00.52	+24 49 47.7	14.8	N		585
C/2017 M4	2018 08 22.87348	16 24 00.49	+24 49 46.8	14.8	N		585
C/2017 M4	2018 08 22.87419	16 24 00.48	+24 49 45.6	14.8	N		585
C/2017 M4	2018 08 25.83713	16 22 32.64	+23 39 57.7	15.3	N		C23
C/2017 M4	2018 08 25.84291	16 22 32.50	+23 39 49.4	15.9	N		C23
C/2017 M4	2018 08 25.84868	16 22 32.30	+23 39 41.7	15.6	N		C23
C/2017 M4	2018 08 26.08108	16 22 25.96	+23 34 14.3	15.4	N		KW34
C/2017 M4	2018 08 26.09008	16 22 25.71	+23 34 01.7	15.2	N		KW34
C/2017 M4	2018 08 26.10181	16 22 25.37	+23 33 45.2	15.4	N		KW34
C/2017 M4	2018 08 26.11243	16 22 25.09	+23 33 30.2	15.4	N		KW34
C/2017 M4	2018 08 26.82686	16 22 06.25	+23 16 46.1	16.0	R		B53
C/2017 M4	2018 08 26.83054	16 22 06.13	+23 16 41.5	16.2	R		B53
C/2017 M4	2018 08 26.83414	16 22 06.08	+23 16 36.5	15.4	N		L27
C/2017 M4	2018 08 26.83422	16 22 06.05	+23 16 36.3	15.0	R		B53
C/2017 M4	2018 08 26.84897	16 22 05.69	+23 16 16.0	15.8	R		B53
C/2017 M4	2018 08 26.85266	16 22 05.55	+23 16 09.9	15.9	R		B53
C/2017 M4	2018 08 26.86274	16 22 05.28	+23 15 55.9	15.4	N		L27
C/2017 M4	2018 08 26.89464	16 22 04.50	+23 15 11.6	15.3	N		L27
C/2017 M4	2018 08 27.82551	16 21 41.19	+22 53 27.9	16.5	N	K	160
C/2017 M4	2018 08 27.82818	16 21 41.13	+22 53 24.1	16.4	N	K	160
C/2017 M4	2018 08 27.83098	16 21 41.06	+22 53 20.1	16.5	N	K	160
C/2017 M4	2018 08 27.86796	16 21 40.16	+22 52 28.3	15.6	N		B74
C/2017 M4	2018 08 27.88161	16 21 39.80	+22 52 09.2	15.6	N		B74
C/2017 M4	2018 08 27.89040	16 21 39.61	+22 51 56.8	15.6	N		B74
C/2017 M4	2018 08 28.83700	16 21 17.24	+22 29 55.5	16.5	N	K	160
C/2017 M4	2018 08 28.83982	16 21 17.17	+22 29 51.5	16.6	N	K	160
C/2017 M4	2018 08 28.84264	16 21 17.09	+22 29 47.6	16.6	N	K	160
C/2017 M4	2018 08 28.88662	16 21 16.13	+22 28 46.7	15.3	N		J22
C/2017 M4	2018 08 28.89063	16 21 15.96	+22 28 41.6	15.3	N		J22
C/2017 M4	2018 08 28.89455	16 21 15.84	+22 28 35.8	15.3	N		J22
C/2017 M4	2018 08 29.21203	16 21 08.84	+22 21 13.2	14.3	G		703
C/2017 M4	2018 08 29.21732	16 21 08.43	+22 21 04.5				703
C/2017 M4	2018 08 29.22260	16 21 08.48	+22 20 58.0	14.8	G		703
C/2017 M4	2018 08 29.22789	16 21 08.37	+22 20 50.3	14.7	G		703
C/2017 M4	2018 08 29.68916	16 20 58.18	+22 10 10.6	16.3	N		C97
C/2017 M4	2018 08 29.69188	16 20 58.17	+22 10 06.9	16.2	N		C97
C/2017 M4	2018 08 29.84866	16 20 54.78	+22 06 27.8	15.3	N		L27
C/2017 M4	2018 08 29.87324	16 20 54.22	+22 05 52.9	15.3	N		L27
C/2017 M4	2018 08 29.88322	16 20 54.01	+22 05 39.9	15.4	N		Z55
C/2017 M4	2018 08 29.88510	16 20 53.98	+22 05 36.8	15.4	N		Z55
C/2017 M4	2018 08 29.88609	16 20 53.96	+22 05 35.8	15.4	N		Z55
C/2017 M4	2018 08 29.88747	16 20 53.94	+22 05 34.2	15.4	N		Z55
C/2017 M4	2018 08 29.90164	16 20 53.52	+22 05 13.7	15.3	N		L27
C/2017 M4	2018 08 29.90508	16 20 53.54	+22 05 10.3	15.8	N	9	G40
C/2017 M4	2018 08 29.91173	16 20 53.45	+22 05 00.9	15.6	N	9	G40
C/2017 M4	2018 08 31.22500	16 20 26.60	+21 34 42.2	15.0	o		T08
C/2017 M4	2018 08 31.22546	16 20 26.58	+21 34 41.3	15.3	o		T08
C/2017 M4	2018 08 31.24291	16 20 26.22	+21 34 17.1	15.2	o		T08
C/2017 M4	2018 08 31.25089	16 20 26.05	+21 34 06.2	15.2	o		T08
C/2017 M4	2018 08 31.82034	16 20 15.18	+21 21 00.1	15.3	N		C23
C/2017 M4	2018 08 31.82899	16 20 15.04	+21 20 48.1	15.5	N		C23
C/2017 M4	2018 08 31.83765	16 20 14.86	+21 20 36.4	15.5	N		C23
C/2017 M4	2018 08 31.84770	16 20 14.69	+21 20 22.8	15.9	R		B96
C/2017 M4	2018 08 31.84933	16 20 14.65	+21 20 21.0	15.8	R		B96
C/2017 M4	2018 08 31.88755	16 20 13.91	+21 19 27.0	14.6	N		970
C/2017 M4	2018 08 31.89591	16 20 13.80	+21 19 15.7	14.6	N		970
C/2017 M4	2018 08 31.90352	16 20 13.65	+21 19 05.3	14.5	N		970
C/2017 M4	2018 08 31.94437	16 20 12.82	+21 18 08.7	15.9	N	K	K02
C/2017 M4	2018 08 31.94912	16 20 12.78	+21 18 02.7	15.4	N	K	K02
C/2017 M4	2018 09 01.82880	16 19 57.06	+20 57 54.4	15.5	R		B96
C/2017 M4	2018 09 01.83218	16 19 56.99	+20 57 49.8	15.5	R		B96
C/2017 M4	2018 09 01.83544	16 19 56.96	+20 57 45.7	15.5	R		B96
C/2017 M4	2018 09 01.84035	16 19 56.84	+20 57 38.6	15.5	R		B96
C/2017 M4	2018 09 01.85378	16 19 56.55	+20 57 18.7	14.9	V	K	A77
C/2017 M4	2018 09 01.86038	16 19 56.46	+20 57 10.3	15.3	N		J01
C/2017 M4	2018 09 01.86339	16 19 56.38	+20 57 05.7	15.1	V	K	A77
C/2017 M4	2018 09 01.87025	16 19 56.27	+20 56 56.7	14.8	N		I81
C/2017 M4	2018 09 01.87299	16 19 56.22	+20 56 52.9	15.0	V	K	A77
C/2017 M4	2018 09 01.87982	16 19 56.11	+20 56 43.1	14.8	N		I81
C/2017 M4	2018 09 01.88416	16 19 56.08	+20 56 37.7	14.8	N		I81
C/2017 M4	2018 09 01.88586	16 19 56.03	+20 56 36.1	15.3	N		J01
C/2017 M4	2018 09 01.89312	16 19 55.86	+20 56 25.2	15.3	N		J01
C/2017 M4	2018 09 02.12968	16 19 51.83	+20 51 00.9	15.7	V		750
C/2017 M4	2018 09 02.15119	16 19 51.43	+20 50 31.9	16.5	V		750
C/2017 M4	2018 09 02.17507	16 19 51.11	+20 49 58.9	15.5	N		U63
C/2017 M4	2018 09 02.17634	16 19 51.07	+20 49 57.2	15.5	N		U63
C/2017 M4	2018 09 02.18248	16 19 51.02	+20 49 49.2	15.5	N		U63
C/2017 M4	2018 09 02.18742	16 19 50.91	+20 49 42.2	15.5	N		U63
C/2017 M4	2018 09 02.19295	16 19 50.83	+20 49 34.4	15.5	N		U63
C/2017 M4	2018 09 02.82705	16 19 40.44	+20 35 07.6	15.7	R		B96
C/2017 M4	2018 09 02.83043	16 19 40.39	+20 35 02.9	15.7	R		B96
C/2017 M4	2018 09 02.83369	16 19 40.31	+20 34 58.2	15.7	R		B96
C/2017 M4	2018 09 02.83860	16 19 40.25	+20 34 51.5	15.7	R		B96
C/2017 M4	2018 09 05.79786	16 18 58.75	+19 27 58.7	16.1	N	K	L05
C/2017 M4	2018 09 05.81081	16 18 58.56	+19 27 41.5	15.8	N	K	L05
C/2017 M4	2018 09 05.82271	16 18 58.43	+19 27 25.5	16.6	N	K	160
C/2017 M4	2018 09 05.82552	16 18 58.40	+19 27 21.8	16.6	N	K	160
C/2017 M4	2018 09 05.82831	16 18 58.40	+19 27 17.8	16.6	N	K	160

C/2017 M4	2018 09 05.90478	16 18 57.44	+19 25 34.0	14.8	N	I81
C/2017 M4	2018 09 05.91106	16 18 57.35	+19 25 25.4	14.8	N	I81
C/2017 M4	2018 09 05.91395	16 18 57.31	+19 25 21.8	14.8	N	I81
C/2017 M4	2018 09 06.22040	16 18 53.75	+19 18 30.4	15.1	o	T05
C/2017 M4	2018 09 06.22872	16 18 53.63	+19 18 19.7	15.1	o	T05
C/2017 M4	2018 09 06.23010	16 18 53.62	+19 18 17.6	15.0	o	T05
C/2017 M4	2018 09 06.24492	16 18 53.42	+19 17 57.7	15.1	o	T05
C/2017 M4	2018 09 07.44323	16 18 40.42	+18 51 14.4	16.1	G	Q38
C/2017 M4	2018 09 07.44568	16 18 40.52	+18 51 09.6	16.6	G	Q38
C/2017 M4	2018 09 07.44814	16 18 40.48	+18 51 08.7	16.2	G	Q38
C/2017 M4	2018 09 07.45056	16 18 40.31	+18 51 04.9	16.3	G	Q38
C/2017 M4	2018 09 07.85444	16 18 36.55	+18 42 05.0	15.6	N	9 G40
C/2017 M4	2018 09 07.85791	16 18 36.50	+18 42 00.2	15.5	N	9 G40
C/2017 M4	2018 09 07.86481	16 18 36.42	+18 41 51.1	15.6	N	9 G40
C/2017 M4	2018 09 08.80155	16 18 28.07	+18 21 04.9	16.5	G	C47
C/2017 M4	2018 09 08.80856	16 18 27.96	+18 20 56.3	16.0	G	C47
C/2017 M4	2018 09 08.81214	16 18 27.96	+18 20 52.0	16.6	N	K 160
C/2017 M4	2018 09 08.81490	16 18 27.94	+18 20 48.3	16.6	N	K 160
C/2017 M4	2018 09 08.81594	16 18 27.94	+18 20 46.5	16.7	G	C47
C/2017 M4	2018 09 08.81765	16 18 27.89	+18 20 44.5	16.8	N	K 160
C/2017 M4	2018 09 08.82332	16 18 27.87	+18 20 36.8	16.8	G	C47
C/2017 M4	2018 09 08.83033	16 18 27.81	+18 20 27.4	16.2	G	C47
C/2017 M4	2018 09 08.83697	16 18 27.75	+18 20 18.9	16.8	G	C47
C/2017 M4	2018 09 08.85981	16 18 27.50	+18 19 48.2	15.5	R	B53
C/2017 M4	2018 09 08.86591	16 18 27.44	+18 19 39.7	15.2	R	B53
C/2017 M4	2018 09 08.86959	16 18 27.44	+18 19 35.1	16.0	R	B53
C/2017 M4	2018 09 08.87330	16 18 27.37	+18 19 30.2	15.0	R	B53
C/2017 M4	2018 09 08.87698	16 18 27.37	+18 19 25.2	15.5	R	B53
C/2017 M4	2018 09 08.88066	16 18 27.34	+18 19 20.7	15.4	R	B53
C/2017 M4	2018 09 08.88434	16 18 27.29	+18 19 15.4	15.3	R	B53
C/2017 M4	2018 09 09.15605	16 18 25.20	+18 13 16.5	14.3	G	703
C/2017 M4	2018 09 09.16125	16 18 25.17	+18 13 09.7	14.3	G	703
C/2017 M4	2018 09 09.16646	16 18 25.10	+18 13 02.7	14.3	G	703
C/2017 M4	2018 09 09.17166	16 18 25.06	+18 12 55.9	14.4	G	703
C/2017 M4	2018 09 09.82041	16 18 20.13	+17 58 39.7	16.8	N	K 160
C/2017 M4	2018 09 09.82314	16 18 20.11	+17 58 36.0	16.8	N	K 160
C/2017 M4	2018 09 09.82588	16 18 20.10	+17 58 32.9	16.3	N	K 160
C/2017 M4	2018 09 10.22608	16 18 17.36	+17 49 46.5	16.2	o	T05
C/2017 M4	2018 09 10.22791	16 18 17.33	+17 49 43.6	15.0	o	T05
C/2017 M4	2018 09 10.24176	16 18 17.23	+17 49 25.3	15.1	o	T05
C/2017 M4	2018 09 10.24975	16 18 17.17	+17 49 15.0	15.1	o	T05
C/2017 M4	2018 09 10.77618	16 18 13.90	+17 37 43.9	16.6	N	K 160
C/2017 M4	2018 09 10.78178	16 18 13.87	+17 37 36.6	16.5	N	K 160
C/2017 M4	2018 09 10.78738	16 18 13.84	+17 37 29.0	16.5	N	K 160
C/2017 M4	2018 09 10.86285	16 18 13.35	+17 35 50.2	15.3	N	J22
C/2017 M4	2018 09 10.86678	16 18 13.31	+17 35 45.7	15.3	N	J22
C/2017 M4	2018 09 10.87072	16 18 13.27	+17 35 40.1	15.3	N	J22
C/2017 M4	2018 09 12.22354	16 18 06.37	+17 06 15.1	15.1	o	T08
C/2017 M4	2018 09 12.22768	16 18 06.34	+17 06 09.6	15.1	o	T08
C/2017 M4	2018 09 12.23883	16 18 06.30	+17 05 55.0	15.1	o	T08
C/2017 M4	2018 09 12.24854	16 18 06.25	+17 05 42.5	15.2	o	T08
C/2017 M4	2018 09 13.82931	16 18 00.87	+16 31 37.5	16.1	N	K A77
C/2017 M4	2018 09 13.83377	16 18 00.82	+16 31 32.2	16.0	N	K A77
C/2017 M4	2018 09 13.83817	16 18 00.84	+16 31 27.1	16.1	N	K A77
C/2017 M4	2018 09 14.80366	16 17 58.93	+16 10 48.6	16.5	N	K 160
C/2017 M4	2018 09 14.80649	16 17 58.93	+16 10 45.1	16.5	N	K 160
C/2017 M4	2018 09 14.80929	16 17 58.90	+16 10 41.5	16.6	N	K 160
C/2017 M4	2018 09 14.89137	16 17 58.78	+16 08 55.7	14.8	N	I81
C/2017 M4	2018 09 14.89571	16 17 58.78	+16 08 50.2	14.8	N	I81
C/2017 M4	2018 09 14.90020	16 17 58.80	+16 08 44.7	14.8	N	I81
C/2017 M4	2018 09 14.90310	16 17 58.75	+16 08 40.7	14.8	N	I81
C/2017 M4	2018 09 15.13372	16 17 58.51	+16 03 46.3	14.6	G	703
C/2017 M4	2018 09 15.13939	16 17 58.49	+16 03 38.9	14.5	G	703
C/2017 M4	2018 09 15.14506	16 17 58.48	+16 03 31.6	14.5	G	703
C/2017 M4	2018 09 15.15072	16 17 58.48	+16 03 24.4	14.4	G	703
C/2017 M4	2018 09 17.46645	16 17 58.70	+15 14 32.2			K 367
C/2017 M4	2018 09 17.46807	16 17 58.70	+15 14 30.3			K 367
C/2017 M4	2018 09 17.46928	16 17 58.70	+15 14 28.5	14.5	T	K 367
C/2017 M4	2018 09 18.22407	16 18 00.01	+14 58 42.3	15.0	o	T05
C/2017 M4	2018 09 18.23615	16 18 00.03	+14 58 27.2	15.1	o	T05
C/2017 M4	2018 09 18.25048	16 18 00.04	+14 58 09.2	15.1	o	T05
C/2017 M4	2018 09 18.26021	16 18 00.06	+14 57 57.1	15.0	o	T05

C/2017 M5 (TOTAS)

C/2017 M5	2018 05 21.72903	21 00 20.76	+00 26 00.4	18.1	T	349
C/2017 M5	2018 05 21.74655	21 00 20.93	+00 26 03.8			349
C/2017 M5	2018 06 04.38018	21 02 03.55	+01 10 03.4	18.6	R	K H47
C/2017 M5	2018 06 04.40966	21 02 03.76	+01 10 09.5	18.4	R	K H47
C/2017 M5	2018 06 10.95941	21 02 15.07	+01 27 46.1	17.8	N	585
C/2017 M5	2018 06 10.96083	21 02 15.07	+01 27 45.7	17.8	N	585
C/2017 M5	2018 06 10.96225	21 02 15.08	+01 27 46.4	17.5	N	585
C/2017 M5	2018 06 10.96367	21 02 15.06	+01 27 46.4	17.5	N	585
C/2017 M5	2018 06 10.96508	21 02 15.08	+01 27 46.4	17.7	N	585
C/2017 M5	2018 06 10.96649	21 02 15.02	+01 27 46.4	17.4	N	585
C/2017 M5	2018 06 10.96792	21 02 15.06	+01 27 46.8	17.3	N	585
C/2017 M5	2018 06 10.96933	21 02 15.06	+01 27 46.7	17.2	N	585
C/2017 M5	2018 06 13.64143	21 02 12.67	+01 34 13.2	17.9	T	K Q11
C/2017 M5	2018 06 13.64570	21 02 12.66	+01 34 13.7			K Q11
C/2017 M5	2018 06 13.65035	21 02 12.65	+01 34 14.4			K Q11
C/2017 M5	2018 06 19.00889	21 01 56.14	+01 45 43.3	17.0	N	K 160
C/2017 M5	2018 06 19.01128	21 01 56.10	+01 45 44.1	19.0	N	K 160
C/2017 M5	2018 06 19.01367	21 01 56.09	+01 45 44.8	18.6	N	K 160
C/2017 M5	2018 06 20.97866	21 01 46.24	+01 49 29.7	18.8	N	K77
C/2017 M5	2018 06 20.98010	21 01 46.20	+01 49 28.6	18.8	N	K77
C/2017 M5	2018 06 21.58173	21 01 42.74	+01 50 32.9	18.9	o	T05
C/2017 M5	2018 06 21.59259	21 01 42.71	+01 50 34.4	18.9	o	T05
C/2017 M5	2018 06 21.60300	21 01 42.52	+01 50 35.0	18.8	o	T05
C/2017 M5	2018 06 21.61402	21 01 42.54	+01 50 36.8	18.8	o	T05
C/2017 M5	2018 06 23.59076	21 01 29.93	+01 53 59.6	18.8	o	T08
C/2017 M5	2018 06 23.59657	21 01 29.85	+01 53 59.9	18.0	o	T08
C/2017 M5	2018 06 23.60826	21 01 29.82	+01 54 02.2	18.3	o	T08
C/2017 M5	2018 06 23.61919	21 01 29.66	+01 54 02.0	18.3	o	T08
C/2017 M5	2018 07 05.96730	20 59 30.10	+02 08 42.4	17.8	N	K C23
C/2017 M5	2018 07 05.97451	20 59 29.94	+02 08 43.3	17.7	N	K C23
C/2017 M5	2018 07 06.49774	20 59 23.503	+02 09 05.73	19.7	i	F51
C/2017 M5	2018 07 06.51124	20 59 23.301	+02 09 06.40	20.0	i	F51

C/2017 M5	2018 07 06.52476	20 59 23.142	+02 09 07.02	19.5	i		F51
C/2017 M5	2018 07 06.53823	20 59 22.938	+02 09 07.53	19.9	i		F51
C/2017 M5	2018 07 09.05065	20 58 50.14	+02 10 35.5	17.9	N	K	C23
C/2017 M5	2018 07 09.05498	20 58 49.99	+02 10 35.3	17.9	N	K	C23
C/2017 M5	2018 07 12.93168	20 57 55.19	+02 11 52.8	18.7	N	K	A71
C/2017 M5	2018 07 12.93875	20 57 55.05	+02 11 52.2	18.5	N	K	A71
C/2017 M5	2018 07 12.94552	20 57 54.97	+02 11 53.6	18.6	N	K	A71
C/2017 M5	2018 07 13.66231	20 57 44.28	+02 11 59.9	17.9	T	K	Q11
C/2017 M5	2018 07 13.66659	20 57 44.19	+02 11 59.8			K	Q11
C/2017 M5	2018 07 13.67562	20 57 44.06	+02 12 00.3			K	Q11
C/2017 M5	2018 07 15.72615	20 57 12.54	+02 12 05.6	18.1	R		D29
C/2017 M5	2018 07 15.74029	20 57 12.29	+02 12 05.3	18.0	R		D29
C/2017 M5	2018 07 15.75443	20 57 12.09	+02 12 05.5	18.2	R		D29
C/2017 M5	2018 07 15.93913	20 57 09.29	+02 12 05.4	18.8	T	K	461
C/2017 M5	2018 07 15.94884	20 57 09.15	+02 12 05.3	18.7	T	K	461
C/2017 M5	2018 07 16.00405	20 57 08.36	+02 12 04.1	18.2			104
C/2017 M5	2018 07 16.03110	20 57 07.78	+02 12 04.5	17.6			104
C/2017 M5	2018 07 17.52702	20 56 43.99	+02 11 54.0	18.5	o		T08
C/2017 M5	2018 07 17.53776	20 56 43.76	+02 11 54.8	18.4	o		T08
C/2017 M5	2018 07 17.54806	20 56 43.58	+02 11 55.1	18.3	o		T08
C/2017 M5	2018 07 17.55879	20 56 43.43	+02 11 54.4	18.3	o		T08
C/2017 M5	2018 07 19.97395	20 56 03.91	+02 11 14.4	18.1	N	K	C23
C/2017 M5	2018 07 19.98117	20 56 03.80	+02 11 14.5	18.1	N	K	C23
C/2017 M5	2018 07 21.53121	20 55 37.87	+02 10 37.4			K	D95
C/2017 M5	2018 07 21.54833	20 55 37.44	+02 10 37.0	17.0	T	K	D95
C/2017 M5	2018 07 21.98567	20 55 29.93	+02 10 22.8	19.6	R		B96
C/2017 M5	2018 07 21.98895	20 55 29.90	+02 10 22.3	17.8	R		B96
C/2017 M5	2018 07 21.99384	20 55 29.57	+02 10 22.1	18.8	R		B96
C/2017 M5	2018 07 22.00446	20 55 29.57	+02 10 24.6	18.1	R	K	212
C/2017 M5	2018 07 22.01598	20 55 29.48	+02 10 24.0	18.3	R	K	212
C/2017 M5	2018 07 22.02806	20 55 29.29	+02 10 24.6	18.1	R	K	212
C/2017 M5	2018 07 23.51724	20 55 03.63	+02 09 31.4	18.7	o		T05
C/2017 M5	2018 07 23.52781	20 55 03.49	+02 09 31.6	18.7	o		T05
C/2017 M5	2018 07 23.53909	20 55 03.24	+02 09 30.4	18.6	o		T05
C/2017 M5	2018 07 23.55045	20 55 03.09	+02 09 30.7	18.6	o		T05
C/2017 M5	2018 07 23.80006	20 54 57.86	+02 09 03.1	19.3	N		193
C/2017 M5	2018 07 23.80289	20 54 57.87	+02 09 03.0	19.1	N		193
C/2017 M5	2018 07 23.80574	20 54 57.86	+02 09 03.1	19.3	N		193
C/2017 M5	2018 07 23.80859	20 54 57.87	+02 09 03.1	19.6	N		193
C/2017 M5	2018 07 23.81144	20 54 57.87	+02 09 03.1	19.6	N		193
C/2017 M5	2018 07 23.81997	20 54 57.87	+02 09 03.1	19.3	N		193
C/2017 M5	2018 07 23.82850	20 54 57.87	+02 09 03.1	19.3	N		193
C/2017 M5	2018 07 23.83419	20 54 57.87	+02 09 03.0	19.1	N		193
C/2017 M5	2018 07 23.84272	20 54 58.10	+02 09 18.7	19.2	N		193
C/2017 M5	2018 07 23.84840	20 54 57.99	+02 09 18.5	19.2	N		193
C/2017 M5	2018 08 02.89025	20 51 57.92	+01 59 10.0	17.9	N	K	C23
C/2017 M5	2018 08 02.89602	20 51 57.95	+01 59 11.8	17.9	N	K	C23
C/2017 M5	2018 08 03.47755	20 51 47.27	+01 58 23.4				D95
C/2017 M5	2018 08 03.48324	20 51 47.21	+01 58 22.6				D95
C/2017 M5	2018 08 03.49036	20 51 47.07	+01 58 22.1	16.9	T		D95
C/2017 M5	2018 08 03.85995	20 51 40.27	+01 57 50.0	18.3	V	K	A71
C/2017 M5	2018 08 03.86835	20 51 40.13	+01 57 49.2	18.6	V	K	A71
C/2017 M5	2018 08 03.87571	20 51 39.99	+01 57 48.9	18.6	V	K	A71
C/2017 M5	2018 08 03.94235	20 51 38.75	+01 57 44.0	18.4	T	K	461
C/2017 M5	2018 08 03.94720	20 51 38.64	+01 57 43.4	18.0	T	K	461
C/2017 M5	2018 08 03.95204	20 51 38.56	+01 57 43.2	18.6	T	K	461
C/2017 M5	2018 08 04.96738	20 51 20.03	+01 56 14.4	18.3	T	K	461
C/2017 M5	2018 08 04.97228	20 51 19.93	+01 56 13.8	17.9	T	K	461
C/2017 M5	2018 08 04.97719	20 51 19.86	+01 56 13.3	18.2	T	K	461
C/2017 M5	2018 08 04.98211	20 51 19.76	+01 56 13.0	18.1	T	K	461
C/2017 M5	2018 08 06.50667	20 50 51.87	+01 53 52.3	18.4	o		T08
C/2017 M5	2018 08 06.51770	20 50 51.70	+01 53 50.4	18.4	o		T08
C/2017 M5	2018 08 06.52154	20 50 51.63	+01 53 51.6	18.3	o		T08
C/2017 M5	2018 08 06.52825	20 50 51.53	+01 53 49.9	18.2	o		T08
C/2017 M5	2018 08 06.53206	20 50 51.48	+01 53 50.4	18.2	o		T08
C/2017 M5	2018 08 08.54597	20 50 15.06	+01 50 30.4			K	Q11
C/2017 M5	2018 08 08.55313	20 50 14.93	+01 50 29.3			K	Q11
C/2017 M5	2018 08 08.55670	20 50 14.86	+01 50 29.1	17.9	T	K	Q11
C/2017 M5	2018 08 10.48698	20 49 40.08	+01 47 04.3	18.4	o		T08
C/2017 M5	2018 08 10.49751	20 49 39.85	+01 47 03.4	18.3	o		T08
C/2017 M5	2018 08 10.50853	20 49 39.84	+01 47 02.0	18.5	o		T08
C/2017 M5	2018 08 10.51907	20 49 39.47	+01 47 01.1	18.4	o		T08
C/2017 M5	2018 08 11.49997	20 49 22.11	+01 45 11.6				D95
C/2017 M5	2018 08 11.50282	20 49 22.00	+01 45 11.3				D95
C/2017 M5	2018 08 11.50709	20 49 21.95	+01 45 11.4	18.3	T		D95
C/2017 M5	2018 08 12.87867	20 48 57.65	+01 42 31.8	18.9	V	K	A71
C/2017 M5	2018 08 12.89968	20 48 57.25	+01 42 29.3	18.7	V	K	A71
C/2017 M5	2018 08 14.91236	20 48 22.26	+01 38 26.1	19.0	N		K77
C/2017 M5	2018 08 14.91817	20 48 22.21	+01 38 24.5	19.7	N		K77
C/2017 M5	2018 08 17.36433	20 47 40.54	+01 33 15.5	17.9	N	K	E94
C/2017 M5	2018 08 17.40740	20 47 39.80	+01 33 08.1	18.1	N	K	E94
C/2017 M5	2018 08 17.49368	20 47 38.29	+01 32 56.5	18.1	N	K	E94
C/2017 M5	2018 08 17.82551	20 47 32.90	+01 32 11.2	18.1	N	K	585
C/2017 M5	2018 08 17.82657	20 47 32.87	+01 32 11.0	18.1	N	K	585
C/2017 M5	2018 08 17.82692	20 47 32.87	+01 32 11.0	18.1	N	K	585
C/2017 M5	2018 08 17.82763	20 47 32.86	+01 32 10.9	18.2	N	K	585
C/2017 M5	2018 08 17.82834	20 47 32.84	+01 32 10.7	18.4	N	K	585
C/2017 M5	2018 08 17.82905	20 47 32.82	+01 32 10.7	18.4	N	K	585
C/2017 M5	2018 08 17.82976	20 47 32.80	+01 32 10.7	18.3	N	K	585
C/2017 M5	2018 08 17.83047	20 47 32.80	+01 32 10.5	18.2	N	K	585
C/2017 M5	2018 08 17.83118	20 47 32.79	+01 32 10.5	18.1	N	K	585
C/2017 M5	2018 08 17.83190	20 47 32.78	+01 32 10.4	18.2	N	K	585
C/2017 M5	2018 08 17.83261	20 47 32.76	+01 32 10.2	18.4	N	K	585
C/2017 M5	2018 08 17.83333	20 47 32.77	+01 32 10.1	18.4	N	K	585
C/2017 M5	2018 08 17.83404	20 47 32.76	+01 32 10.1	18.2	N	K	585
C/2017 M5	2018 08 17.83476	20 47 32.74	+01 32 10.0	18.4	N	K	585
C/2017 M5	2018 08 17.83547	20 47 32.70	+01 32 09.8	18.2	N	K	585
C/2017 M5	2018 08 17.83619	20 47 32.69	+01 32 09.7	18.4	N	K	585
C/2017 M5	2018 08 17.91358	20 47 31.49	+01 31 58.8	19.3	R		B96
C/2017 M5	2018 08 17.91685	20 47 31.35	+01 31 58.6	18.4	R		B96
C/2017 M5	2018 08 17.92175	20 47 31.32	+01 31 57.6	18.2	R		B96
C/2017 M5	2018 08 20.86212	20 46 43.39	+01 25 15.0	19.0	T	K	461
C/2017 M5	2018 08 20.86917	20 46 43.29	+01 25 14.1	19.0	T	K	461
C/2017 M5	2018 08 20.87622	20 46 43.16	+01 25 13.0	18.9	T	K	461
C/2017 M5	2018 08 31.84958	20 44 07.28	+00 57 14.5	18.8	T	K	461
C/2017 M5	2018 08 31.85448	20 44 07.19	+00 57 13.7	18.7	T	K	461

C/2017 M5	2018 08 31.85936	20 44 07.13	+00 57 13.3	18.8	T	K	461
C/2017 M5	2018 09 03.42775	20 43 36.96	+00 50 10.2	18.5	o		T08
C/2017 M5	2018 09 03.43842	20 43 36.75	+00 50 08.2	18.5	o		T08
C/2017 M5	2018 09 03.44862	20 43 36.63	+00 50 08.2	18.5	o		T08
C/2017 M5	2018 09 03.45929	20 43 36.54	+00 50 05.3	18.5	o		T08
C/2017 M5	2018 09 05.92935	20 43 10.36	+00 43 09.6	19.0	N	K	I81
C/2017 M5	2018 09 05.93152	20 43 10.34	+00 43 09.3	18.5	N	K	I81
C/2017 M5	2018 09 05.93370	20 43 10.29	+00 43 08.4	18.6	N	K	I81
C/2017 M5	2018 09 09.41630	20 42 37.94	+00 33 15.5	18.2	o		T05
C/2017 M5	2018 09 09.42692	20 42 37.77	+00 33 13.7	18.5	o		T05
C/2017 M5	2018 09 09.43708	20 42 37.75	+00 33 11.6	18.6	o		T05
C/2017 M5	2018 09 09.44771	20 42 37.46	+00 33 08.9	17.6	o		T05
C/2017 M5	2018 09 10.37595	20 42 30.10	+00 30 32.3	18.4	N	K	Q68
C/2017 M5	2018 09 10.40098	20 42 29.88	+00 30 27.5	18.5	N	K	Q68
C/2017 M5	2018 09 12.45186	20 42 14.60	+00 24 33.3	18.6	N	K	Q68
C/2017 M5	2018 09 12.47656	20 42 14.44	+00 24 29.2	18.3	N	K	Q68
C/2017 M5	2018 09 17.37229	20 41 47.02	+00 10 19.2	18.6	o		T05
C/2017 M5	2018 09 17.38373	20 41 46.95	+00 10 17.2	18.9	o		T05
C/2017 M5	2018 09 17.39240	20 41 46.87	+00 10 15.7	18.8	o		T05
C/2017 M5	2018 09 17.39377	20 41 46.82	+00 10 15.1	18.2	o		T05
C/2017 M5	2018 09 17.40379	20 41 46.86	+00 10 14.3	19.1	o		T05
C/2017 M5	2018 09 17.41383	20 41 46.75	+00 10 11.1	18.2	o		T05
C/2017 M5	2018 09 17.81251	20 41 45.17	+00 09 02.4	18.2		K	215
C/2017 M5	2018 09 17.81508	20 41 45.18	+00 09 01.8	18.3		K	215
C/2017 M5	2018 09 17.81764	20 41 45.18	+00 09 01.2	18.1		K	215

C/2017 P2 (PANSTARRS)

C/2017 P2	2018 06 17.602216	00 48 41.821	−02 52 34.92	23.4	G	29	568
C/2017 P2	2018 06 17.605475	00 48 41.981	−02 52 36.36	24.1	G	29	568

C/2017 S3 (PANSTARRS)

C/2017 S3	2018 05 26.77295	00 54 59.57	+56 53 32.2			K	367
C/2017 S3	2018 05 26.77538	00 54 59.99	+56 53 33.3			K	367
C/2017 S3	2018 05 26.77821	00 55 00.47	+56 53 34.5	16.3	T	K	367
C/2017 S3	2018 05 29.20290	01 01 40.01	+57 08 26.6	17.1	N	9	G40
C/2017 S3	2018 05 29.20846	01 01 40.96	+57 08 28.4			9	G40
C/2017 S3	2018 05 29.21420	01 01 41.96	+57 08 30.5	17.0	N	9	G40
C/2017 S3	2018 05 31.16063	01 07 10.96	+57 20 21.3	16.7	N	17	G40
C/2017 S3	2018 05 31.16351	01 07 11.39	+57 20 22.7	16.4	N	17	G40
C/2017 S3	2018 06 05.97336	01 24 23.01	+57 54 56.7	16.8	R		B96
C/2017 S3	2018 06 05.97662	01 24 23.73	+57 54 57.2	16.9	R		B96
C/2017 S3	2018 06 05.97990	01 24 24.50	+57 54 58.7	16.7	R		B96
C/2017 S3	2018 06 06.05363	01 24 38.07	+57 55 24.9	16.4	N	K	C23
C/2017 S3	2018 06 06.05816	01 24 38.78	+57 55 27.1	16.6	N	K	C23
C/2017 S3	2018 06 06.06105	01 24 39.40	+57 55 28.6	16.1	N	K	C23
C/2017 S3	2018 06 06.06393	01 24 39.94	+57 55 28.8	16.5	N	K	C23
C/2017 S3	2018 06 07.69863	01 29 46.10	+58 04 53.4	15.2	T		349
C/2017 S3	2018 06 07.70512	01 29 47.30	+58 04 55.4				349
C/2017 S3	2018 06 11.00338	01 40 28.44	+58 23 11.3	17.2	N	K	A71
C/2017 S3	2018 06 11.00632	01 40 29.09	+58 23 11.8	17.5	N	K	A71
C/2017 S3	2018 06 11.00926	01 40 29.55	+58 23 13.1	17.4	N	K	A71
C/2017 S3	2018 06 11.01222	01 40 30.27	+58 23 14.1	16.9	N	K	A71
C/2017 S3	2018 06 11.01519	01 40 30.80	+58 23 15.6	16.9	N	K	A71
C/2017 S3	2018 06 11.01815	01 40 31.27	+58 23 16.4	16.8	N	K	A71
C/2017 S3	2018 06 14.00043	01 50 41.68	+58 38 43.6	16.9	N	K	C23
C/2017 S3	2018 06 14.00331	01 50 42.28	+58 38 45.4	15.5	N	K	C23
C/2017 S3	2018 06 14.00620	01 50 42.95	+58 38 45.9	16.6	N	K	C23
C/2017 S3	2018 06 14.00909	01 50 43.48	+58 38 47.2	16.7	N	K	C23
C/2017 S3	2018 06 19.01932	02 09 05.22	+59 01 34.5	16.6	N		C23
C/2017 S3	2018 06 19.02232	02 09 05.87	+59 01 35.2	16.4	N		C23
C/2017 S3	2018 06 19.02531	02 09 06.66	+59 01 35.1	15.9	N		C23
C/2017 S3	2018 06 21.68324	02 19 36.38	+59 11 24.0			K	D81
C/2017 S3	2018 06 21.68552	02 19 36.85	+59 11 24.6			K	D81
C/2017 S3	2018 06 21.68781	02 19 37.68	+59 11 23.6			K	D81
C/2017 S3	2018 06 21.69009	02 19 38.16	+59 11 24.9	14.7	T	K	D81
C/2017 S3	2018 06 21.99463	02 20 52.48	+59 12 22.8	16.6	R		B96
C/2017 S3	2018 06 21.99789	02 20 53.17	+59 12 23.2	16.6	R		B96
C/2017 S3	2018 06 22.00117	02 20 54.04	+59 12 24.4	16.6	R		B96
C/2017 S3	2018 06 22.00608	02 20 55.26	+59 12 25.8	16.6	R		B96
C/2017 S3	2018 06 22.02307	02 20 59.46	+59 12 28.0	15.8	N		K02
C/2017 S3	2018 06 22.02770	02 21 00.50	+59 12 29.2	16.1	N		K02
C/2017 S3	2018 06 22.03696	02 21 02.87	+59 12 30.9	16.2	N		K02
C/2017 S3	2018 06 24.19682	02 30 05.55	+59 18 41.6	15.5	N		J22
C/2017 S3	2018 06 24.21059	02 30 09.17	+59 18 44.8	15.5	N		J22
C/2017 S3	2018 06 24.21454	02 30 10.23	+59 18 45.3	15.5	N		J22
C/2017 S3	2018 06 25.17392	02 34 19.69	+59 20 53.7	15.8	N	9	G40
C/2017 S3	2018 06 25.17735	02 34 20.76	+59 20 53.7	15.8	N	9	G40
C/2017 S3	2018 06 25.18064	02 34 21.48	+59 20 54.6	15.8	N	9	G40
C/2017 S3	2018 06 25.18410	02 34 22.40	+59 20 54.8	15.7	N	9	G40
C/2017 S3	2018 06 25.18763	02 34 23.42	+59 20 55.3	15.7	N	9	G40
C/2017 S3	2018 06 25.99198	02 37 56.62	+59 22 23.9	15.6	N		C23
C/2017 S3	2018 06 25.99920	02 37 58.54	+59 22 24.8	16.0	N		C23
C/2017 S3	2018 06 26.00641	02 38 00.60	+59 22 24.7	15.8	N		C23
C/2017 S3	2018 06 26.04654	02 38 11.33	+59 22 30.3	16.0	R		B96
C/2017 S3	2018 06 26.047327	02 38 11.53	+59 22 30.0	13.5	T	K	Z80
C/2017 S3	2018 06 26.048773	02 38 11.90	+59 22 29.7	16.1	N	K	Z80
C/2017 S3	2018 06 26.050222	02 38 12.41	+59 22 30.2	15.8	N	K	Z80
C/2017 S3	2018 06 26.05144	02 38 12.68	+59 22 30.6	16.0	R		B96
C/2017 S3	2018 06 26.051671	02 38 12.68	+59 22 30.7	15.8	N	K	Z80
C/2017 S3	2018 06 26.053121	02 38 13.09	+59 22 30.6	15.9	N	K	Z80
C/2017 S3	2018 06 26.054572	02 38 13.34	+59 22 31.4	16.0	N	K	Z80
C/2017 S3	2018 06 26.05471	02 38 13.51	+59 22 31.1	16.1	R		B96
C/2017 S3	2018 06 26.056019	02 38 13.81	+59 22 30.8	15.8	N	K	Z80
C/2017 S3	2018 06 26.057469	02 38 14.23	+59 22 31.0	15.8	N	K	Z80
C/2017 S3	2018 06 26.058918	02 38 14.65	+59 22 30.6	16.0	N	K	Z80
C/2017 S3	2018 06 26.060365	02 38 14.99	+59 22 31.1	16.1	N	K	Z80
C/2017 S3	2018 06 27.05184	02 42 44.11	+59 23 59.1	16.5	R		B96
C/2017 S3	2018 06 27.06176	02 42 47.10	+59 24 00.4	16.2	R		B96
C/2017 S3	2018 06 27.06666	02 42 48.48	+59 24 00.9	16.2	R		B96
C/2017 S3	2018 06 27.90183	02 46 40.17	+59 24 49.4	15.2	N		B18
C/2017 S3	2018 06 27.90321	02 46 40.57	+59 24 49.4	15.4	N		B18
C/2017 S3	2018 06 27.90459	02 46 40.92	+59 24 49.6	15.5	N		B18
C/2017 S3	2018 06 27.90598	02 46 41.36	+59 24 49.5	15.2	N		B18
C/2017 S3	2018 06 27.91014	02 46 42.50	+59 24 49.7	15.3	N		B18
C/2017 S3	2018 06 27.91153	02 46 42.93	+59 24 50.0	15.4	N		B18
C/2017 S3	2018 06 27.91292	02 46 43.30	+59 24 50.2	15.3	N		B18
C/2017 S3	2018 06 27.93388	02 46 49.19	+59 24 51.4	15.4	N		B18

C/2017 S3	2018 06 27.93527	02 46 49.54	+59 24 51.6	15.3	N	B18
C/2017 S3	2018 06 27.93664	02 46 49.94	+59 24 51.5	15.4	N	B18
C/2017 S3	2018 06 27.93803	02 46 50.35	+59 24 51.6	15.4	N	B18
C/2017 S3	2018 06 27.93942	02 46 50.78	+59 24 51.7	15.5	N	B18
C/2017 S3	2018 06 27.94081	02 46 51.13	+59 24 51.8	15.3	N	B18
C/2017 S3	2018 06 27.94219	02 46 51.55	+59 24 52.1	15.3	N	B18
C/2017 S3	2018 06 27.94358	02 46 51.93	+59 24 52.1	15.4	N	B18
C/2017 S3	2018 06 27.94497	02 46 52.31	+59 24 52.2	15.4	N	B18
C/2017 S3	2018 06 27.96721	02 46 58.59	+59 24 53.6	15.4	N	B18
C/2017 S3	2018 06 27.96860	02 46 58.96	+59 24 53.5	15.5	N	B18
C/2017 S3	2018 06 27.96999	02 46 59.38	+59 24 53.8	15.4	N	B18
C/2017 S3	2018 06 27.97138	02 46 59.73	+59 24 53.8	15.3	N	B18
C/2017 S3	2018 06 27.97277	02 47 00.14	+59 24 53.9	15.2	N	B18
C/2017 S3	2018 06 27.97416	02 47 00.49	+59 24 53.9	15.4	N	B18
C/2017 S3	2018 06 27.97554	02 47 00.92	+59 24 53.9	15.4	N	B18
C/2017 S3	2018 06 27.97692	02 47 01.34	+59 24 54.2	15.4	N	B18
C/2017 S3	2018 06 27.97831	02 47 01.72	+59 24 54.3	15.5	N	B18
C/2017 S3	2018 06 27.98072	02 47 02.37	+59 24 54.5	15.5	N	B18
C/2017 S3	2018 06 28.02204	02 47 13.83	+59 24 53.4	16.5	R	B96
C/2017 S3	2018 06 28.02705	02 47 15.51	+59 24 54.9	16.3	R	B96
C/2017 S3	2018 06 28.03194	02 47 16.76	+59 24 56.1	16.1	R	B96
C/2017 S3	2018 06 29.00838	02 51 54.57	+59 25 22.2	16.3	R	B96
C/2017 S3	2018 06 29.01502	02 51 56.45	+59 25 22.3	16.3	R	B96
C/2017 S3	2018 06 29.02321	02 51 58.83	+59 25 22.5	16.2	R	B96
C/2017 S3	2018 06 30.01289	02 56 47.45	+59 25 15.3	16.2	R	B96
C/2017 S3	2018 06 30.02106	02 56 49.88	+59 25 14.6	16.2	R	B96
C/2017 S3	2018 06 30.06461	02 57 02.86	+59 25 16.1	15.8	N	C23
C/2017 S3	2018 06 30.06536	02 57 03.06	+59 25 15.6	15.5	N	C23
C/2017 S3	2018 06 30.06611	02 57 03.30	+59 25 14.7	15.6	N	C23
C/2017 S3	2018 06 30.06686	02 57 03.63	+59 25 15.7	16.6	N	C23
C/2017 S3	2018 06 30.99319	03 01 40.68	+59 24 32.2	15.9	N	K A71
C/2017 S3	2018 06 30.99720	03 01 41.91	+59 24 32.2	15.8	N	K A71
C/2017 S3	2018 07 01.00146	03 01 43.12	+59 24 31.9	15.8	N	K A71
C/2017 S3	2018 07 01.00570	03 01 44.50	+59 24 31.8	15.9	N	K A71
C/2017 S3	2018 07 01.00588	03 01 44.48	+59 24 31.3	15.0	N	C10
C/2017 S3	2018 07 01.02814	03 01 51.23	+59 24 30.4	14.9	N	C10
C/2017 S3	2018 07 01.05111	03 01 58.33	+59 24 29.3	14.9	N	C10
C/2017 S3	2018 07 01.98579	03 06 44.93	+59 23 07.6	14.9	N	K A71
C/2017 S3	2018 07 01.99017	03 06 46.30	+59 23 07.2	15.0	N	K A71
C/2017 S3	2018 07 01.99458	03 06 47.67	+59 23 07.0	15.0	N	K A71
C/2017 S3	2018 07 01.99898	03 06 49.01	+59 23 06.4	15.0	N	K A71
C/2017 S3	2018 07 02.00339	03 06 50.42	+59 23 06.0	15.0	N	K A71
C/2017 S3	2018 07 02.00779	03 06 51.78	+59 23 05.5	15.0	N	K A71
C/2017 S3	2018 07 02.00903	03 06 52.32	+59 23 07.0	14.2	N	B18
C/2017 S3	2018 07 02.00936	03 06 52.40	+59 23 06.9	14.3	N	B18
C/2017 S3	2018 07 02.00971	03 06 52.52	+59 23 06.8	14.4	N	B18
C/2017 S3	2018 07 02.01006	03 06 52.61	+59 23 06.9	14.3	N	B18
C/2017 S3	2018 07 02.01041	03 06 52.69	+59 23 06.8	14.2	N	B18
C/2017 S3	2018 07 02.01075	03 06 52.81	+59 23 06.8	14.3	N	B18
C/2017 S3	2018 07 02.01109	03 06 52.90	+59 23 06.9	14.2	N	B18
C/2017 S3	2018 07 02.01144	03 06 53.03	+59 23 06.9	14.2	N	B18
C/2017 S3	2018 07 02.01178	03 06 53.12	+59 23 06.8	14.2	N	B18
C/2017 S3	2018 07 02.01213	03 06 53.18	+59 23 07.0	14.1	N	B18
C/2017 S3	2018 07 02.01247	03 06 53.31	+59 23 06.7	14.1	N	B18
C/2017 S3	2018 07 02.01281	03 06 53.42	+59 23 06.6	14.0	N	B18
C/2017 S3	2018 07 02.01316	03 06 53.57	+59 23 06.5	14.1	N	B18
C/2017 S3	2018 07 02.01351	03 06 53.71	+59 23 06.2	14.2	N	B18
C/2017 S3	2018 07 02.01384	03 06 53.84	+59 23 07.0	14.1	N	B18
C/2017 S3	2018 07 02.40380	03 08 55.62	+59 22 21.1	14.2	G	WH06
C/2017 S3	2018 07 02.40463	03 08 55.95	+59 22 20.4	14.1	G	WH06
C/2017 S3	2018 07 02.40545	03 08 56.12	+59 22 20.8	14.1	G	WH06
C/2017 S3	2018 07 02.40626	03 08 56.39	+59 22 20.6	14.1	G	WH06
C/2017 S3	2018 07 02.40708	03 08 56.64	+59 22 20.5	11.8	T	WH06
C/2017 S3	2018 07 02.72773	03 10 37.64	+59 21 37.6	10.2	T	349
C/2017 S3	2018 07 02.73154	03 10 38.82	+59 21 37.3			349
C/2017 S3	2018 07 02.73535	03 10 40.04	+59 21 36.7			349
C/2017 S3	2018 07 02.93585	03 11 43.52	+59 21 04.4	14.7	N	K A71
C/2017 S3	2018 07 02.93952	03 11 44.67	+59 21 04.2	14.7	N	K A71
C/2017 S3	2018 07 02.94319	03 11 45.86	+59 21 03.3	14.7	N	K A71
C/2017 S3	2018 07 02.94686	03 11 47.03	+59 21 02.7	14.7	N	K A71
C/2017 S3	2018 07 02.95053	03 11 48.26	+59 21 02.5	14.8	N	K A71
C/2017 S3	2018 07 02.95420	03 11 49.39	+59 21 01.8	14.8	N	K A71
C/2017 S3	2018 07 02.95788	03 11 50.58	+59 21 01.5	14.7	N	K A71
C/2017 S3	2018 07 02.96155	03 11 51.71	+59 21 00.7	14.6	N	K A71
C/2017 S3	2018 07 02.99933	03 12 03.89	+59 20 55.1	14.9	G	C47
C/2017 S3	2018 07 03.00413	03 12 05.38	+59 20 54.6	15.1	G	C47
C/2017 S3	2018 07 03.00587	03 12 05.84	+59 20 54.0	14.5	R	B96
C/2017 S3	2018 07 03.00930	03 12 06.99	+59 20 54.3	14.9	G	C47
C/2017 S3	2018 07 03.01446	03 12 08.67	+59 20 53.1	14.9	G	C47
C/2017 S3	2018 07 03.01638	03 12 09.25	+59 20 52.6	14.4	R	B96
C/2017 S3	2018 07 03.01926	03 12 10.16	+59 20 52.6	15.0	G	C47
C/2017 S3	2018 07 03.02201	03 12 11.14	+59 20 51.5	14.4	R	B96
C/2017 S3	2018 07 03.02479	03 12 12.00	+59 20 51.6	15.0	G	C47
C/2017 S3	2018 07 03.02766	03 12 12.83	+59 20 50.8	14.4	R	B96
C/2017 S3	2018 07 03.03330	03 12 14.65	+59 20 50.1	14.4	R	B96
C/2017 S3	2018 07 03.03490	03 12 15.13	+59 20 49.6	13.6	N	K02
C/2017 S3	2018 07 03.04341	03 12 17.88	+59 20 48.5	13.6	N	K02
C/2017 S3	2018 07 03.045605	03 12 18.54	+59 20 48.2	11.2	T	K Z80
C/2017 S3	2018 07 03.046753	03 12 18.91	+59 20 48.4	13.8	N	K Z80
C/2017 S3	2018 07 03.047786	03 12 19.28	+59 20 48.1	13.9	N	K Z80
C/2017 S3	2018 07 03.048929	03 12 19.63	+59 20 47.6	13.9	N	K Z80
C/2017 S3	2018 07 03.050205	03 12 20.03	+59 20 47.6	13.9	N	K Z80
C/2017 S3	2018 07 03.05078	03 12 20.25	+59 20 48.3	13.0	N	048
C/2017 S3	2018 07 03.051956	03 12 20.58	+59 20 47.3	14.0	N	K Z80
C/2017 S3	2018 07 03.05220	03 12 20.69	+59 20 48.2			048
C/2017 S3	2018 07 03.05278	03 12 20.83	+59 20 47.0	13.6	N	K02
C/2017 S3	2018 07 03.053044	03 12 20.93	+59 20 47.0	13.9	N	K Z80
C/2017 S3	2018 07 03.05362	03 12 21.15	+59 20 47.9			048
C/2017 S3	2018 07 03.054129	03 12 21.27	+59 20 47.1	13.9	N	K Z80
C/2017 S3	2018 07 03.055457	03 12 21.69	+59 20 46.7	13.9	N	K Z80
C/2017 S3	2018 07 03.19152	03 13 05.46	+59 20 27.5	13.9	N	9 G40
C/2017 S3	2018 07 03.19846	03 13 07.70	+59 20 26.1	13.8	N	9 G40
C/2017 S3	2018 07 03.20539	03 13 09.86	+59 20 25.7	13.9	N	9 G40
C/2017 S3	2018 07 03.21235	03 13 12.13	+59 20 24.4			9 G40
C/2017 S3	2018 07 03.96796	03 17 16.51	+59 18 01.0	14.2	N	K A71
C/2017 S3	2018 07 03.97101	03 17 17.52	+59 18 00.5	14.0	N	K A71

C/2017 S3	2018 07 03.97407	03 17 18.51	+59 17 59.8	14.1	N	K A71
C/2017 S3	2018 07 03.97712	03 17 19.48	+59 17 59.1	13.9	N	K A71
C/2017 S3	2018 07 03.98032	03 17 20.53	+59 17 58.3	14.0	N	K A71
C/2017 S3	2018 07 03.98361	03 17 21.59	+59 17 58.1	14.0	N	K A71
C/2017 S3	2018 07 03.98666	03 17 22.64	+59 17 57.5	14.1	N	K A71
C/2017 S3	2018 07 03.98972	03 17 23.65	+59 17 56.5	13.9	N	K A71
C/2017 S3	2018 07 03.99277	03 17 24.64	+59 17 56.2	14.1	N	K A71
C/2017 S3	2018 07 03.99585	03 17 25.64	+59 17 55.4	14.1	N	K A71
C/2017 S3	2018 07 03.99892	03 17 26.67	+59 17 55.0	14.0	N	K A71
C/2017 S3	2018 07 04.08194	03 17 53.82	+59 17 38.9	13.7	V	K A77
C/2017 S3	2018 07 04.08803	03 17 55.97	+59 17 38.4	13.7	V	K A77
C/2017 S3	2018 07 04.09558	03 17 58.53	+59 17 36.5	13.7	V	K A77
C/2017 S3	2018 07 04.10345	03 18 00.93	+59 17 35.1	10.7	T	K A77
C/2017 S3	2018 07 04.14079	03 18 13.33	+59 17 27.4	14.2	R	2 I89
C/2017 S3	2018 07 04.14666	03 18 15.24	+59 17 26.2	14.6	R	2 I89
C/2017 S3	2018 07 04.15231	03 18 17.10	+59 17 25.2	14.6	R	2 I89
C/2017 S3	2018 07 04.15720	03 18 18.63	+59 17 24.3	14.4	R	2 I89
C/2017 S3	2018 07 04.97355	03 22 49.69	+59 14 05.6	13.9	N	213
C/2017 S3	2018 07 04.98024	03 22 51.98	+59 14 04.7	14.2	N	K A71
C/2017 S3	2018 07 04.98291	03 22 52.83	+59 14 04.0	14.0	N	K A71
C/2017 S3	2018 07 04.98508	03 22 53.60	+59 14 03.0	13.9	N	213
C/2017 S3	2018 07 04.98558	03 22 53.79	+59 14 03.3	14.1	N	K A71
C/2017 S3	2018 07 04.98827	03 22 54.64	+59 14 02.8	13.9	N	K A71
C/2017 S3	2018 07 04.99097	03 22 55.56	+59 14 02.2	14.1	N	K A71
C/2017 S3	2018 07 04.99665	03 22 57.47	+59 14 01.2	14.1	N	K A71
C/2017 S3	2018 07 04.99971	03 22 58.52	+59 13 58.9	13.9	N	213
C/2017 S3	2018 07 05.00507	03 23 00.28	+59 13 58.9	14.1	N	K A71
C/2017 S3	2018 07 05.01303	03 23 02.98	+59 13 56.9	14.1	N	K A71
C/2017 S3	2018 07 05.02167	03 23 05.92	+59 13 54.9	14.1	N	K A71
C/2017 S3	2018 07 05.03122	03 23 09.12	+59 13 52.4	13.9	N	K A71
C/2017 S3	2018 07 05.06492	03 23 20.56	+59 13 43.6	13.3	V	104
C/2017 S3	2018 07 05.07880	03 23 25.23	+59 13 40.2	13.1	V	104
C/2017 S3	2018 07 05.09342	03 23 30.07	+59 13 37.3	13.0	V	104
C/2017 S3	2018 07 05.09584	03 23 30.95	+59 13 35.8	13.8	V	A77
C/2017 S3	2018 07 05.10110	03 23 32.70	+59 13 34.7	13.9	V	A77
C/2017 S3	2018 07 05.10718	03 23 34.71	+59 13 32.7	13.8	V	A77
C/2017 S3	2018 07 05.13214	03 23 43.23	+59 13 26.1	13.4	N	J01
C/2017 S3	2018 07 05.13418	03 23 43.93	+59 13 26.0	14.7	R	2 I89
C/2017 S3	2018 07 05.13609	03 23 44.57	+59 13 25.7	14.6	R	2 I89
C/2017 S3	2018 07 05.13671	03 23 44.73	+59 13 25.2	13.4	N	J01
C/2017 S3	2018 07 05.13817	03 23 45.28	+59 13 25.0	14.1	R	2 I89
C/2017 S3	2018 07 05.13902	03 23 45.50	+59 13 24.7	13.4	N	J01
C/2017 S3	2018 07 05.72840	03 27 05.74	+59 10 29.6	14.4	G	D35
C/2017 S3	2018 07 05.72881	03 27 05.88	+59 10 29.5	14.4	G	D35
C/2017 S3	2018 07 05.72918	03 27 05.96	+59 10 29.8	14.4	G	D35
C/2017 S3	2018 07 05.73122	03 27 06.66	+59 10 29.2	14.3	G	D35
C/2017 S3	2018 07 05.73218	03 27 06.99	+59 10 28.9	14.4	G	D35
C/2017 S3	2018 07 05.73318	03 27 07.37	+59 10 28.5	14.3	G	D35
C/2017 S3	2018 07 05.90444	03 28 06.10	+59 09 34.5	14.2	N	L04
C/2017 S3	2018 07 05.92297	03 28 12.51	+59 09 29.4	14.1	N	L04
C/2017 S3	2018 07 05.93132	03 28 15.38	+59 09 26.5	14.3	N	L04
C/2017 S3	2018 07 05.99004	03 28 35.68	+59 09 07.8	13.7	N	C23
C/2017 S3	2018 07 06.00801	03 28 41.94	+59 09 02.4	14.2	N	C23
C/2017 S3	2018 07 06.020563	03 28 46.16	+59 08 58.9			C95
C/2017 S3	2018 07 06.022220	03 28 46.82	+59 08 57.7	15.0	V	C95
C/2017 S3	2018 07 06.023047	03 28 47.18	+59 08 57.9	15.0	V	C95
C/2017 S3	2018 07 06.02523	03 28 47.88	+59 08 56.9	13.8	N	C23
C/2017 S3	2018 07 06.026359	03 28 48.24	+59 08 57.0	14.0	V	C95
C/2017 S3	2018 07 06.028016	03 28 48.92	+59 08 56.1	14.9	V	C95
C/2017 S3	2018 07 06.029672	03 28 49.42	+59 08 56.3	14.2	V	C95
C/2017 S3	2018 07 06.054450	03 28 57.98	+59 08 47.3	11.2	T	K Z80
C/2017 S3	2018 07 06.055905	03 28 58.45	+59 08 46.9	14.0	N	K Z80
C/2017 S3	2018 07 06.057355	03 28 58.93	+59 08 46.7	14.0	N	K Z80
C/2017 S3	2018 07 06.058812	03 28 59.44	+59 08 46.4	13.9	N	K Z80
C/2017 S3	2018 07 06.060260	03 28 59.97	+59 08 45.6	14.0	N	K Z80
C/2017 S3	2018 07 06.71041	03 32 46.66	+59 04 54.8	14.7	G	D35
C/2017 S3	2018 07 06.71138	03 32 46.99	+59 04 54.6	14.7	G	D35
C/2017 S3	2018 07 06.71235	03 32 47.31	+59 04 54.2	14.3	G	t D35
C/2017 S3	2018 07 06.79662	03 33 17.22	+59 04 23.8	14.6	G	D35
C/2017 S3	2018 07 06.79757	03 33 17.56	+59 04 23.5	14.6	G	D35
C/2017 S3	2018 07 06.79853	03 33 17.91	+59 04 23.1	14.6	G	D35
C/2017 S3	2018 07 06.84145	03 33 33.13	+59 04 07.7	14.6	G	D35
C/2017 S3	2018 07 06.84233	03 33 33.44	+59 04 07.3	14.6	G	D35
C/2017 S3	2018 07 06.84322	03 33 33.75	+59 04 07.0	14.6	G	D35
C/2017 S3	2018 07 07.01390	03 34 34.00	+59 03 00.5	14.6	R	B96
C/2017 S3	2018 07 07.02207	03 34 37.01	+59 02 55.7	14.7	R	B96
C/2017 S3	2018 07 07.02816	03 34 39.03	+59 02 53.9	14.5	R	B96
C/2017 S3	2018 07 07.03381	03 34 41.14	+59 02 51.9	14.6	R	B96
C/2017 S3	2018 07 07.03944	03 34 43.13	+59 02 49.6	14.6	R	B96
C/2017 S3	2018 07 07.04508	03 34 45.05	+59 02 48.2	14.6	R	B96
C/2017 S3	2018 07 07.05041	03 34 47.11	+59 02 45.2	14.5	N	L12
C/2017 S3	2018 07 07.05072	03 34 47.09	+59 02 45.4	14.5	R	B96
C/2017 S3	2018 07 07.05394	03 34 48.32	+59 02 44.1	13.7	N	L12
C/2017 S3	2018 07 07.05744	03 34 49.22	+59 02 43.2	13.6	N	L12
C/2017 S3	2018 07 07.06097	03 34 50.61	+59 02 41.9	13.7	N	L12
C/2017 S3	2018 07 07.06195	03 34 51.10	+59 02 41.8	14.2	V	A77
C/2017 S3	2018 07 07.062187	03 34 51.18	+59 02 40.6	11.3	T	K Z80
C/2017 S3	2018 07 07.063260	03 34 51.52	+59 02 40.5	14.2	N	K Z80
C/2017 S3	2018 07 07.064167	03 34 51.88	+59 02 39.9	14.2	N	K Z80
C/2017 S3	2018 07 07.06451	03 34 51.99	+59 02 40.0	14.4	N	L12
C/2017 S3	2018 07 07.06713	03 34 52.92	+59 02 40.0	14.2	V	A77
C/2017 S3	2018 07 07.06802	03 34 53.31	+59 02 39.3	14.2	N	L12
C/2017 S3	2018 07 07.071233	03 34 54.32	+59 02 37.5	14.1	N	K Z80
C/2017 S3	2018 07 07.072095	03 34 54.67	+59 02 37.4	14.3	N	K Z80
C/2017 S3	2018 07 07.10637	03 35 07.00	+59 02 26.8	14.4	N	213
C/2017 S3	2018 07 07.11465	03 35 09.84	+59 02 23.1	14.5	N	213
C/2017 S3	2018 07 07.12062	03 35 12.11	+59 02 20.8	14.6	N	213
C/2017 S3	2018 07 07.20413	03 35 41.88	+59 01 46.9	14.0	N	9 G40
C/2017 S3	2018 07 07.20750	03 35 43.09	+59 01 45.5	14.0	N	9 G40
C/2017 S3	2018 07 07.21111	03 35 44.38	+59 01 43.6	14.0	N	9 G40
C/2017 S3	2018 07 07.21553	03 35 45.98	+59 01 42.4	14.0	N	9 G40
C/2017 S3	2018 07 07.72310	03 38 47.97	+58 57 59.1	14.9	G	D35
C/2017 S3	2018 07 07.81402	03 39 21.10	+58 57 19.8	14.8	G	D35
C/2017 S3	2018 07 07.81494	03 39 21.44	+58 57 19.3	14.8	G	D35
C/2017 S3	2018 07 07.84154	03 39 31.07	+58 57 07.7	14.8	G	D35
C/2017 S3	2018 07 07.89257	03 39 49.66	+58 56 45.5	15.0	G	D35

C/2017 S3	2018 07 07.89345	03 39 49.97	+58 56 45.1	15.0	G		D35
C/2017 S3	2018 07 07.89434	03 39 50.29	+58 56 44.9	15.0	G		D35
C/2017 S3	2018 07 08.01037	03 40 32.28	+58 55 48.2	14.8	R		B96
C/2017 S3	2018 07 08.01691	03 40 34.78	+58 55 46.2	14.9	R		B96
C/2017 S3	2018 07 08.01997	03 40 35.97	+58 55 44.2	14.7	N	K	A71
C/2017 S3	2018 07 08.02115	03 40 36.40	+58 55 43.9	14.9	N	K	A71
C/2017 S3	2018 07 08.02267	03 40 36.90	+58 55 43.4	14.9	N	K	A71
C/2017 S3	2018 07 08.02409	03 40 37.30	+58 55 42.6	14.6	N		C23
C/2017 S3	2018 07 08.02677	03 40 38.35	+58 55 40.9	14.7	R		B96
C/2017 S3	2018 07 08.03052	03 40 39.79	+58 55 39.3	14.8	R		B96
C/2017 S3	2018 07 08.03458	03 40 41.22	+58 55 37.9	14.6	N		C23
C/2017 S3	2018 07 08.03804	03 40 42.48	+58 55 35.8	14.7	R		B96
C/2017 S3	2018 07 08.04462	03 40 44.96	+58 55 33.1	14.9	R		B96
C/2017 S3	2018 07 08.04581	03 40 45.16	+58 55 33.3	14.5	N		C23
C/2017 S3	2018 07 08.064346	03 40 52.10	+58 55 23.8	12.3	T	K	Z80
C/2017 S3	2018 07 08.066765	03 40 52.96	+58 55 21.7	14.3	N	K	Z80
C/2017 S3	2018 07 08.069192	03 40 53.79	+58 55 21.0	14.2	N	K	Z80
C/2017 S3	2018 07 08.076476	03 40 56.50	+58 55 17.9	14.1	N	K	Z80
C/2017 S3	2018 07 08.078896	03 40 57.44	+58 55 17.0	14.2	N	K	Z80
C/2017 S3	2018 07 08.081322	03 40 58.25	+58 55 15.9	14.2	N	K	Z80
C/2017 S3	2018 07 08.083744	03 40 59.13	+58 55 14.2	14.2	N	K	Z80
C/2017 S3	2018 07 08.086167	03 41 00.11	+58 55 13.1	14.2	N	K	Z80
C/2017 S3	2018 07 08.66263	03 44 32.41	+58 50 24.9	10.9	T		349
C/2017 S3	2018 07 08.66645	03 44 33.83	+58 50 23.1				349
C/2017 S3	2018 07 08.67028	03 44 35.23	+58 50 20.9				349
C/2017 S3	2018 07 08.99240	03 46 35.11	+58 47 27.8	15.8	N		K40
C/2017 S3	2018 07 09.00593	03 46 40.17	+58 47 18.4	14.9	R		B96
C/2017 S3	2018 07 09.01186	03 46 42.18	+58 47 16.7	16.2	N		K40
C/2017 S3	2018 07 09.01245	03 46 42.86	+58 47 15.6	14.9	R		B96
C/2017 S3	2018 07 09.02019	03 46 45.67	+58 47 12.5	14.7	R		B96
C/2017 S3	2018 07 09.02582	03 46 47.83	+58 47 07.7	14.8	R		B96
C/2017 S3	2018 07 09.02793	03 46 48.65	+58 47 07.6	15.2		K	215
C/2017 S3	2018 07 09.02923	03 46 49.14	+58 47 06.9	15.2		K	215
C/2017 S3	2018 07 09.03053	03 46 49.56	+58 47 06.1	15.2		K	215
C/2017 S3	2018 07 09.03146	03 46 49.86	+58 47 04.9	14.8	R		B96
C/2017 S3	2018 07 09.03606	03 46 51.49	+58 47 04.1	14.9	N		C23
C/2017 S3	2018 07 09.03709	03 46 52.03	+58 47 02.0	14.8	R		B96
C/2017 S3	2018 07 09.03897	03 46 52.65	+58 47 02.3	16.4	N	K	L05
C/2017 S3	2018 07 09.04130	03 46 53.55	+58 46 59.8	14.7	N		C23
C/2017 S3	2018 07 09.04274	03 46 54.04	+58 46 59.6	14.7	R		B96
C/2017 S3	2018 07 09.04729	03 46 55.82	+58 46 56.4	14.7	N		C23
C/2017 S3	2018 07 09.05353	03 46 58.31	+58 46 53.8	16.3	N	K	L05
C/2017 S3	2018 07 09.08266	03 47 09.12	+58 46 38.5	16.2	N	K	L05
C/2017 S3	2018 07 09.09969	03 47 15.62	+58 46 27.6	14.0	N		J01
C/2017 S3	2018 07 09.10429	03 47 17.37	+58 46 26.4	14.0	N		J01
C/2017 S3	2018 07 09.11813	03 47 22.53	+58 46 18.1	14.1	N		J01
C/2017 S3	2018 07 10.76216	03 57 54.28	+58 28 45.6	15.6	G		D35
C/2017 S3	2018 07 10.84692	03 58 27.76	+58 27 46.3	15.5	G		D35
C/2017 S3	2018 07 10.89896	03 58 48.32	+58 27 09.7	15.7	G		D35
C/2017 S3	2018 07 11.09477	04 00 05.38	+58 24 42.9	14.3	V	K	A77
C/2017 S3	2018 07 11.09914	04 00 07.59	+58 24 41.8	14.3	V	K	A77
C/2017 S3	2018 07 11.96557	04 05 55.02	+58 13 03.0	14.2	N	K	970
C/2017 S3	2018 07 11.97469	04 05 58.68	+58 12 56.0	13.6	N	K	970
C/2017 S3	2018 07 11.97697	04 05 59.79	+58 12 52.9	13.5	N		970
C/2017 S3	2018 07 12.94882	04 12 39.73	+57 58 09.5	15.4	R		B96
C/2017 S3	2018 07 12.94976	04 12 40.03	+57 58 09.1	15.4	R		B96
C/2017 S3	2018 07 12.95069	04 12 40.54	+57 58 08.4	15.5	R		B96
C/2017 S3	2018 07 12.95163	04 12 40.87	+57 58 07.7	15.5	R		B96
C/2017 S3	2018 07 12.95257	04 12 41.41	+57 58 05.8	15.5	R		B96
C/2017 S3	2018 07 12.95446	04 12 42.13	+57 58 04.7	15.3	R		B96
C/2017 S3	2018 07 13.02077	04 13 10.05	+57 57 01.7	16.2	N	K	A71
C/2017 S3	2018 07 13.03069	04 13 14.26	+57 56 51.9	16.3	N	K	A71
C/2017 S3	2018 07 13.03382	04 13 15.51	+57 56 49.4	16.2	N	K	A71
C/2017 S3	2018 07 13.03694	04 13 16.90	+57 56 45.0	16.3	N	K	A71
C/2017 S3	2018 07 13.04029	04 13 18.32	+57 56 42.2	16.3	N	K	A71
C/2017 S3	2018 07 13.04348	04 13 19.52	+57 56 40.1	16.0	N	K	A71
C/2017 S3	2018 07 13.04635	04 13 20.76	+57 56 36.7	16.4	N	K	A71
C/2017 S3	2018 07 13.20073	04 14 25.49	+57 54 08.4	14.2	N	2	G40
C/2017 S3	2018 07 13.20170	04 14 25.78	+57 54 08.1	14.2	N	2	G40
C/2017 S3	2018 07 13.20272	04 14 26.06	+57 54 07.7	13.7	N	2	G40
C/2017 S3	2018 07 13.20412	04 14 26.88	+57 54 05.3	14.2	N	2	G40
C/2017 S3	2018 07 13.20509	04 14 27.41	+57 54 02.5	15.0	N	2	G40
C/2017 S3	2018 07 13.20611	04 14 27.70	+57 54 03.1	14.4	N	2	G40
C/2017 S3	2018 07 13.67389	04 17 45.47	+57 45 57.0				349
C/2017 S3	2018 07 13.68131	04 17 48.68	+57 45 49.6	11.3	T		349
C/2017 S3	2018 07 13.77530	04 18 28.62	+57 44 06.3	16.0	G		D35
C/2017 S3	2018 07 13.86458	04 19 06.90	+57 42 31.5	15.9	G		D35
C/2017 S3	2018 07 13.86551	04 19 07.31	+57 42 30.6	15.9	G		D35
C/2017 S3	2018 07 13.87221	04 19 10.11	+57 42 23.5	16.1	G		D35
C/2017 S3	2018 07 13.87380	04 19 10.77	+57 42 22.0	16.1	G		D35
C/2017 S3	2018 07 13.99351	04 20 01.71	+57 40 08.3	14.7	N		C23
C/2017 S3	2018 07 14.00474	04 20 06.73	+57 39 55.4	15.3	N		C23
C/2017 S3	2018 07 14.01461	04 20 10.92	+57 39 44.7	15.4	R		B96
C/2017 S3	2018 07 14.01897	04 20 12.95	+57 39 38.9	15.2	N		C23
C/2017 S3	2018 07 14.02118	04 20 13.74	+57 39 36.9	15.6	R		B96
C/2017 S3	2018 07 14.02165	04 20 13.91	+57 39 39.2	15.7	N	K	A71
C/2017 S3	2018 07 14.02588	04 20 15.94	+57 39 32.7	15.5	R		B96
C/2017 S3	2018 07 14.02592	04 20 15.83	+57 39 33.1	15.5	N	K	A71
C/2017 S3	2018 07 14.03022	04 20 17.73	+57 39 29.2	15.4	N	K	A71
C/2017 S3	2018 07 14.03058	04 20 17.84	+57 39 27.4	15.5	R		B96
C/2017 S3	2018 07 14.03451	04 20 19.55	+57 39 23.6	15.7	N	K	A71
C/2017 S3	2018 07 14.03622	04 20 20.41	+57 39 21.4	15.5	R		B96
C/2017 S3	2018 07 14.04185	04 20 22.71	+57 39 15.5	15.5	R		B96
C/2017 S3	2018 07 14.05141	04 20 26.75	+57 39 04.8	15.7	R		B96
C/2017 S3	2018 07 14.12666	04 20 59.27	+57 37 41.4	14.2	N		J01
C/2017 S3	2018 07 14.13149	04 21 01.44	+57 37 38.1	14.2	N		J01
C/2017 S3	2018 07 14.14269	04 21 05.85	+57 37 24.4	14.2	N		J01
C/2017 S3	2018 07 14.14587	04 21 07.66	+57 37 20.7	14.3	N		J01
C/2017 S3	2018 07 14.18093	04 21 22.78	+57 36 42.9	14.4	N		J22
C/2017 S3	2018 07 14.18289	04 21 23.68	+57 36 41.6	14.4	N		J22
C/2017 S3	2018 07 14.18875	04 21 25.92	+57 36 34.5	14.4	N		J22
C/2017 S3	2018 07 14.20524	04 21 33.26	+57 36 15.1	14.8	N	9	G40
C/2017 S3	2018 07 14.21234	04 21 36.34	+57 36 06.8	14.8	N	9	G40
C/2017 S3	2018 07 14.21538	04 21 37.70	+57 36 03.5	14.8	N	9	G40
C/2017 S3	2018 07 14.68181	04 25 00.13	+57 26 54.1				D81
C/2017 S3	2018 07 14.68257	04 25 00.46	+57 26 52.4				D81

C/2017 S3	2018 07 14.68333	04 25 00.85	+57 26 51.9			D81
C/2017 S3	2018 07 14.68409	04 25 01.16	+57 26 50.9	11.0	T	D81
C/2017 S3	2018 07 14.96785	04 27 05.23	+57 21 00.5	13.2	N	C10
C/2017 S3	2018 07 14.98131	04 27 11.24	+57 20 43.3	13.3	N	C10
C/2017 S3	2018 07 14.99164	04 27 15.89	+57 20 30.4	12.8	N	K02
C/2017 S3	2018 07 14.99521	04 27 17.24	+57 20 27.4	10.9	T	C10
C/2017 S3	2018 07 14.99674	04 27 18.11	+57 20 23.7	12.8	N	K02
C/2017 S3	2018 07 14.99859	04 27 19.06	+57 20 21.6	14.6	N	K40
C/2017 S3	2018 07 15.00028	04 27 19.73	+57 20 19.6	14.5	G	C47
C/2017 S3	2018 07 15.00110	04 27 20.15	+57 20 18.7	13.7	N	L12
C/2017 S3	2018 07 15.00360	04 27 21.25	+57 20 15.5	14.2	G	C47
C/2017 S3	2018 07 15.00479	04 27 21.75	+57 20 14.6	14.3	N	K40
C/2017 S3	2018 07 15.00565	04 27 22.12	+57 20 12.7	13.3	R	B96
C/2017 S3	2018 07 15.00610	04 27 22.27	+57 20 12.1	12.8	N	K02
C/2017 S3	2018 07 15.00729	04 27 22.89	+57 20 11.1	14.6	G	C47
C/2017 S3	2018 07 15.00771	04 27 23.05	+57 20 10.7	14.3	N	K40
C/2017 S3	2018 07 15.00796	04 27 23.16	+57 20 09.9	13.4	R	B96
C/2017 S3	2018 07 15.00816	04 27 23.12	+57 20 09.6	13.4	N	L12
C/2017 S3	2018 07 15.00920	04 27 23.55	+57 20 09.0	13.2	N	C10
C/2017 S3	2018 07 15.01087	04 27 24.35	+57 20 07.6	13.4	N	K A71
C/2017 S3	2018 07 15.01098	04 27 24.48	+57 20 06.9	14.5	G	C47
C/2017 S3	2018 07 15.01178	04 27 24.84	+57 20 05.5	13.3	R	B96
C/2017 S3	2018 07 15.01355	04 27 25.57	+57 20 04.3	13.4	N	K A71
C/2017 S3	2018 07 15.01467	04 27 26.17	+57 20 02.2	14.4	G	C47
C/2017 S3	2018 07 15.01522	04 27 26.65	+57 19 59.5	13.1	N	L12
C/2017 S3	2018 07 15.01561	04 27 26.51	+57 20 00.9	13.3	R	B96
C/2017 S3	2018 07 15.01623	04 27 26.77	+57 20 01.2	13.2	N	K A71
C/2017 S3	2018 07 15.01873	04 27 27.91	+57 19 57.5	14.5	G	C47
C/2017 S3	2018 07 15.01892	04 27 27.91	+57 19 57.7	13.4	N	K A71
C/2017 S3	2018 07 15.02021	04 27 28.58	+57 19 54.8	13.3	R	B96
C/2017 S3	2018 07 15.02316	04 27 29.84	+57 19 51.8	14.7	G	C47
C/2017 S3	2018 07 15.02405	04 27 30.26	+57 19 50.2	13.3	R	B96
C/2017 S3	2018 07 15.02788	04 27 31.97	+57 19 45.5	13.3	R	B96
C/2017 S3	2018 07 15.03258	04 27 34.03	+57 19 39.7	13.5	R	B96
C/2017 S3	2018 07 15.03728	04 27 36.11	+57 19 33.7	13.5	R	B96
C/2017 S3	2018 07 15.04198	04 27 38.19	+57 19 27.9	13.6	R	B96
C/2017 S3	2018 07 15.05446	04 27 43.65	+57 19 12.5	13.3	N	C23
C/2017 S3	2018 07 15.07019	04 27 50.62	+57 18 53.0	13.2	N	C23
C/2017 S3	2018 07 15.07396	04 27 52.53	+57 18 49.0	12.3	V	A77
C/2017 S3	2018 07 15.07918	04 27 54.82	+57 18 42.2	12.2	V	A77
C/2017 S3	2018 07 15.08367	04 27 56.58	+57 18 36.3	12.9	N	C23
C/2017 S3	2018 07 15.08612	04 27 57.96	+57 18 32.4	10.0	T	A77
C/2017 S3	2018 07 15.10537	04 28 06.28	+57 18 08.5	12.1	N	J01
C/2017 S3	2018 07 15.10843	04 28 07.65	+57 18 04.9	12.2	N	J01
C/2017 S3	2018 07 15.11149	04 28 09.04	+57 18 00.8	12.1	N	J01
C/2017 S3	2018 07 15.68743	04 32 24.90	+57 05 18.7	13.4	G	D35
C/2017 S3	2018 07 15.68875	04 32 25.53	+57 05 17.0	13.4	G	D35
C/2017 S3	2018 07 15.70020	04 32 30.68	+57 05 01.2	13.5	G	D35
C/2017 S3	2018 07 15.72309	04 32 41.33	+57 04 34.5			349
C/2017 S3	2018 07 15.72565	04 32 42.51	+57 04 31.3			349
C/2017 S3	2018 07 15.72818	04 32 43.65	+57 04 27.8	9.1	T	349
C/2017 S3	2018 07 15.80764	04 33 19.28	+57 02 35.5	13.3	G	D35
C/2017 S3	2018 07 15.86585	04 33 45.56	+57 01 16.2	13.2	G	D35
C/2017 S3	2018 07 15.87514	04 33 49.74	+57 01 03.6	13.3	G	D35
C/2017 S3	2018 07 15.89967	04 34 00.31	+57 00 25.8	12.7	V	C43
C/2017 S3	2018 07 15.90130	04 34 01.06	+57 00 24.6	12.7	V	C43
C/2017 S3	2018 07 15.90311	04 34 01.85	+57 00 21.1	12.8	V	C43
C/2017 S3	2018 07 15.90510	04 34 02.68	+57 00 19.6	12.8	V	C43
C/2017 S3	2018 07 15.94191	04 34 19.33	+56 59 28.4	10.2	T	C10
C/2017 S3	2018 07 15.95703	04 34 26.34	+56 59 05.8	12.4	N	C10
C/2017 S3	2018 07 15.97594	04 34 34.90	+56 58 40.0	12.4	N	C10
C/2017 S3	2018 07 15.98166	04 34 37.43	+56 58 31.4	11.3	N	970
C/2017 S3	2018 07 15.98891	04 34 40.77	+56 58 21.7	12.4	N	C10
C/2017 S3	2018 07 15.99991	04 34 45.73	+56 58 05.7	11.3	N	970
C/2017 S3	2018 07 16.00762	04 34 49.34	+56 57 55.0	12.7	N	C23
C/2017 S3	2018 07 16.03008	04 34 59.52	+56 57 23.6	12.5	N	C23
C/2017 S3	2018 07 16.040799	04 35 04.39	+56 57 07.9	8.7	T	K Z80
C/2017 S3	2018 07 16.042981	04 35 05.37	+56 57 05.1	12.5	N	K Z80
C/2017 S3	2018 07 16.045161	04 35 06.35	+56 57 02.2	12.4	N	K Z80
C/2017 S3	2018 07 16.047338	04 35 07.31	+56 56 59.1	12.3	N	K Z80
C/2017 S3	2018 07 16.049515	04 35 08.30	+56 56 56.0	12.4	N	K Z80
C/2017 S3	2018 07 16.051686	04 35 09.25	+56 56 52.4	12.3	N	K Z80
C/2017 S3	2018 07 16.05255	04 35 09.72	+56 56 52.1	12.2	N	C23
C/2017 S3	2018 07 16.053857	04 35 10.30	+56 56 49.4	12.4	N	K Z80
C/2017 S3	2018 07 16.056030	04 35 11.31	+56 56 46.7	12.4	N	K Z80
C/2017 S3	2018 07 16.058218	04 35 12.29	+56 56 43.7	12.3	N	K Z80
C/2017 S3	2018 07 16.060396	04 35 13.27	+56 56 40.3	12.3	N	K Z80
C/2017 S3	2018 07 16.13248	04 35 46.08	+56 54 59.0	11.7	N	J01
C/2017 S3	2018 07 16.13407	04 35 46.80	+56 54 57.0	11.7	N	J01
C/2017 S3	2018 07 16.13931	04 35 49.21	+56 54 49.6	11.7	N	J01
C/2017 S3	2018 07 16.19733	04 36 15.65	+56 53 26.9	12.0	N	9 G40
C/2017 S3	2018 07 16.20594	04 36 19.56	+56 53 15.0	12.0	N	9 G40
C/2017 S3	2018 07 16.20943	04 36 21.15	+56 53 10.0	12.0	N	9 G40
C/2017 S3	2018 07 16.48400	04 38 26.33	+56 46 23.6	12.9	G	15U69
C/2017 S3	2018 07 16.48459	04 38 26.58	+56 46 22.6	12.9	G	15U69
C/2017 S3	2018 07 16.48521	04 38 26.85	+56 46 21.9	12.9	G	15U69
C/2017 S3	2018 07 16.48583	04 38 27.15	+56 46 20.9	12.9	G	15U69
C/2017 S3	2018 07 16.48637	04 38 27.42	+56 46 20.1	10.6	T	15U69
C/2017 S3	2018 07 16.86991	04 41 23.81	+56 36 29.4	13.1	G	D35
C/2017 S3	2018 07 16.87082	04 41 24.23	+56 36 28.0	13.1	G	D35
C/2017 S3	2018 07 16.87175	04 41 24.66	+56 36 26.6	13.1	G	D35
C/2017 S3	2018 07 16.89966	04 41 36.94	+56 35 39.8	12.6	N	C10
C/2017 S3	2018 07 16.91052	04 41 41.99	+56 35 22.5	12.5	N	C10
C/2017 S3	2018 07 16.92194	04 41 47.38	+56 35 04.8	12.5	N	C10
C/2017 S3	2018 07 16.93671	04 41 54.24	+56 34 40.7	12.5	N	C10
C/2017 S3	2018 07 16.94810	04 41 59.50	+56 34 23.7	12.5	N	C10
C/2017 S3	2018 07 16.95946	04 42 04.62	+56 34 05.4	10.3	T	C10
C/2017 S3	2018 07 16.98240	04 42 15.50	+56 33 30.1	13.2	N	238
C/2017 S3	2018 07 16.98529	04 42 16.85	+56 33 25.5	13.2	N	238
C/2017 S3	2018 07 16.98587	04 42 17.17	+56 33 23.6	12.3	R	B96
C/2017 S3	2018 07 16.98664	04 42 17.62	+56 33 21.7	12.2	R	B96
C/2017 S3	2018 07 16.98817	04 42 18.30	+56 33 19.2	12.3	R	B96
C/2017 S3	2018 07 16.98978	04 42 18.94	+56 33 18.4	13.2	N	238
C/2017 S3	2018 07 16.99131	04 42 19.82	+56 33 14.5	12.3	R	B96
C/2017 S3	2018 07 16.99181	04 42 19.89	+56 33 15.2	13.2	N	238
C/2017 S3	2018 07 16.99611	04 42 21.90	+56 33 07.3	12.4	R	B96

C/2017 S3	2018 07 17.009403	04 42 28.14	+56 32 46.1	13.5	G	K	J95
C/2017 S3	2018 07 17.013058	04 42 29.85	+56 32 40.1	13.4	G	K	J95
C/2017 S3	2018 07 17.015256	04 42 30.76	+56 32 36.9	8.5	T	K	Z80
C/2017 S3	2018 07 17.016716	04 42 31.53	+56 32 34.5	13.5	G	K	J95
C/2017 S3	2018 07 17.016956	04 42 31.67	+56 32 34.2	12.3	N	K	Z80
C/2017 S3	2018 07 17.018536	04 42 32.38	+56 32 32.1	12.3	N	K	Z80
C/2017 S3	2018 07 17.020106	04 42 33.04	+56 32 29.7	12.3	N	K	Z80
C/2017 S3	2018 07 17.021804	04 42 33.83	+56 32 26.3	12.3	N	K	Z80
C/2017 S3	2018 07 17.023374	04 42 34.57	+56 32 24.6	12.3	N	K	Z80
C/2017 S3	2018 07 17.024949	04 42 35.39	+56 32 22.1	12.3	N	K	Z80
C/2017 S3	2018 07 17.026644	04 42 36.12	+56 32 19.1	12.3	N	K	Z80
C/2017 S3	2018 07 17.028214	04 42 36.86	+56 32 16.2	12.2	N	K	Z80
C/2017 S3	2018 07 17.029833	04 42 37.64	+56 32 13.6	12.2	N	K	Z80
C/2017 S3	2018 07 17.04531	04 42 44.79	+56 31 49.9	11.3	N		970
C/2017 S3	2018 07 17.05918	04 42 51.47	+56 31 28.2	12.2	N		213
C/2017 S3	2018 07 17.05994	04 42 51.75	+56 31 26.7	12.2	N		213
C/2017 S3	2018 07 17.06154	04 42 52.51	+56 31 23.8	12.3	N		213
C/2017 S3	2018 07 17.06358	04 42 53.33	+56 31 20.8	11.3	N		970
C/2017 S3	2018 07 17.09498	04 43 08.21	+56 30 30.8	12.0	V		A77
C/2017 S3	2018 07 17.10312	04 43 12.01	+56 30 17.4	11.9	V		A77
C/2017 S3	2018 07 17.11008	04 43 15.26	+56 30 07.7	12.0	V		A77
C/2017 S3	2018 07 17.11793	04 43 18.86	+56 29 54.5	9.4	T		A77
C/2017 S3	2018 07 17.12630	04 43 22.72	+56 29 41.9	12.4	N		K14
C/2017 S3	2018 07 17.12764	04 43 23.27	+56 29 40.0	12.4	N		K14
C/2017 S3	2018 07 17.12960	04 43 24.26	+56 29 37.0	12.4	N		K14
C/2017 S3	2018 07 17.13093	04 43 24.94	+56 29 34.3	12.4	N		K14
C/2017 S3	2018 07 17.13264	04 43 25.70	+56 29 31.7	11.9	N		K14
C/2017 S3	2018 07 17.13398	04 43 26.33	+56 29 29.3	12.4	N		K14
C/2017 S3	2018 07 17.13542	04 43 27.01	+56 29 27.0	12.5	N		K14
C/2017 S3	2018 07 17.13677	04 43 27.63	+56 29 24.8	12.5	N		K14
C/2017 S3	2018 07 17.13812	04 43 28.22	+56 29 22.5	12.5	N		K14
C/2017 S3	2018 07 17.13945	04 43 28.63	+56 29 20.7	12.6	N		K14
C/2017 S3	2018 07 17.14080	04 43 29.47	+56 29 18.4	12.6	N		K14
C/2017 S3	2018 07 17.14214	04 43 30.06	+56 29 16.7	12.6	N		K14
C/2017 S3	2018 07 17.19361	04 43 54.20	+56 27 53.4	12.2	N	9	G40
C/2017 S3	2018 07 17.20059	04 43 57.43	+56 27 41.9	12.2	N	9	G40
C/2017 S3	2018 07 17.20405	04 43 58.99	+56 27 36.8	12.2	N	9	G40
C/2017 S3	2018 07 17.89378	04 49 22.60	+56 07 58.5	12.2	N		C10
C/2017 S3	2018 07 17.91429	04 49 32.37	+56 07 22.3	12.1	N		C10
C/2017 S3	2018 07 17.93031	04 49 40.29	+56 06 54.5	11.2	N		L51
C/2017 S3	2018 07 17.93181	04 49 40.95	+56 06 52.0	11.0	N		L51
C/2017 S3	2018 07 17.93627	04 49 43.10	+56 06 44.1	11.0	N		L51
C/2017 S3	2018 07 17.93775	04 49 43.80	+56 06 41.6	11.0	N		L51
C/2017 S3	2018 07 17.93831	04 49 43.79	+56 06 39.2	11.1	N		970
C/2017 S3	2018 07 17.94647	04 49 47.58	+56 06 26.4	12.2	N		C10
C/2017 S3	2018 07 17.95732	04 49 52.88	+56 06 05.6	11.1	N		970
C/2017 S3	2018 07 17.96747	04 49 57.62	+56 05 49.6	9.9	T		C10
C/2017 S3	2018 07 17.98965	04 50 08.39	+56 05 08.6	12.1	N		C10
C/2017 S3	2018 07 18.00323	04 50 14.97	+56 04 43.3	12.5	R		B96
C/2017 S3	2018 07 18.00630	04 50 16.40	+56 04 38.4	12.5	R		B96
C/2017 S3	2018 07 18.01013	04 50 18.25	+56 04 31.3	12.5	R		B96
C/2017 S3	2018 07 18.01473	04 50 20.40	+56 04 23.5	12.4	R		B96
C/2017 S3	2018 07 18.01610	04 50 21.10	+56 04 21.0	12.3	N		C23
C/2017 S3	2018 07 18.01932	04 50 22.68	+56 04 15.0	12.5	R		B96
C/2017 S3	2018 07 18.02393	04 50 24.85	+56 04 07.0	12.5	R		B96
C/2017 S3	2018 07 18.02883	04 50 27.14	+56 03 58.5	11.6	N		C23
C/2017 S3	2018 07 18.02922	04 50 27.37	+56 03 57.6	12.6	R		B96
C/2017 S3	2018 07 18.02929	04 50 27.44	+56 03 56.9	11.9	N		L12
C/2017 S3	2018 07 18.03508	04 50 30.16	+56 03 47.2	12.6	R		B96
C/2017 S3	2018 07 18.03635	04 50 30.84	+56 03 44.6	12.1	N		L12
C/2017 S3	2018 07 18.04340	04 50 34.44	+56 03 31.0	12.1	N		L12
C/2017 S3	2018 07 18.04407	04 50 34.38	+56 03 31.6	10.8	R		B96
C/2017 S3	2018 07 18.04455	04 50 34.65	+56 03 30.7	12.3	N		C23
C/2017 S3	2018 07 18.05307	04 50 38.70	+56 03 15.2	10.8	R		B96
C/2017 S3	2018 07 18.06375	04 50 43.96	+56 02 56.4	12.6	N		A77
C/2017 S3	2018 07 18.06588	04 50 44.97	+56 02 52.2	12.8	N		A77
C/2017 S3	2018 07 18.06730	04 50 45.69	+56 02 50.0	13.4	N	K	L05
C/2017 S3	2018 07 18.06825	04 50 46.09	+56 02 47.9	12.7	N		A77
C/2017 S3	2018 07 18.07063	04 50 47.21	+56 02 44.2	12.7	N		A77
C/2017 S3	2018 07 18.07300	04 50 48.40	+56 02 39.9	12.7	N		A77
C/2017 S3	2018 07 18.07547	04 50 49.58	+56 02 35.2	12.7	N		A77
C/2017 S3	2018 07 18.07786	04 50 50.69	+56 02 30.9	12.7	N		A77
C/2017 S3	2018 07 18.08389	04 50 53.58	+56 02 20.7	13.6	N	K	L05
C/2017 S3	2018 07 18.09426	04 50 58.50	+56 02 02.7	13.5	N	K	L05
C/2017 S3	2018 07 18.12703	04 51 14.10	+56 01 02.3	11.5	N		J01
C/2017 S3	2018 07 18.13187	04 51 16.46	+56 00 53.8	11.5	N		J01
C/2017 S3	2018 07 18.14155	04 51 20.96	+56 00 36.9	11.5	N		J01
C/2017 S3	2018 07 18.20407	04 51 51.01	+55 58 44.2	12.0	N	9	G40
C/2017 S3	2018 07 18.21806	04 51 57.71	+55 58 19.2	12.1	N	9	G40
C/2017 S3	2018 07 18.71050	04 55 54.34	+55 42 46.0	8.6	T		349
C/2017 S3	2018 07 18.71446	04 55 56.24	+55 42 38.5				349
C/2017 S3	2018 07 18.71839	04 55 58.15	+55 42 31.0				349
C/2017 S3	2018 07 18.76987	04 56 22.93	+55 40 47.2	12.9	G		D35
C/2017 S3	2018 07 18.77085	04 56 23.38	+55 40 45.4	12.9	G		D35
C/2017 S3	2018 07 18.77181	04 56 23.86	+55 40 43.6	13.0	G		D35
C/2017 S3	2018 07 18.82769	04 56 51.07	+55 38 55.2	12.9	G		D35
C/2017 S3	2018 07 18.82861	04 56 51.53	+55 38 53.3	12.9	G		D35
C/2017 S3	2018 07 18.82953	04 56 51.99	+55 38 51.5	12.9	G		D35
C/2017 S3	2018 07 18.89553	04 57 23.34	+55 36 39.7	12.2	N		C10
C/2017 S3	2018 07 18.91588	04 57 33.36	+55 35 59.6	12.2	N		C10
C/2017 S3	2018 07 18.94015	04 57 45.10	+55 35 12.6	10.0	N		C10
C/2017 S3	2018 07 18.96089	04 57 55.41	+55 34 30.3	12.1	N		C10
C/2017 S3	2018 07 18.98495	04 58 07.18	+55 33 42.5	12.1	N		C10
C/2017 S3	2018 07 18.98767	04 58 08.42	+55 33 37.6	12.0	N		238
C/2017 S3	2018 07 18.99041	04 58 09.77	+55 33 32.1	11.9	N		238
C/2017 S3	2018 07 18.99298	04 58 11.11	+55 33 25.7	12.4	R		B96
C/2017 S3	2018 07 18.99374	04 58 11.49	+55 33 24.5	12.4	R		B96
C/2017 S3	2018 07 18.99518	04 58 12.14	+55 33 22.6	11.8	N		238
C/2017 S3	2018 07 18.99910	04 58 14.12	+55 33 13.5	12.4	R		B96
C/2017 S3	2018 07 19.00371	04 58 16.34	+55 33 04.6	12.4	R		B96
C/2017 S3	2018 07 19.00830	04 58 18.75	+55 32 54.8	12.4	R		B96
C/2017 S3	2018 07 19.01290	04 58 20.91	+55 32 45.4	12.4	R		B96
C/2017 S3	2018 07 19.01721	04 58 23.03	+55 32 36.6	12.6	R		B96
C/2017 S3	2018 07 19.02192	04 58 25.32	+55 32 27.7	12.6	R		B96
C/2017 S3	2018 07 19.024039	04 58 26.34	+55 32 23.9	8.3	T	K	Z80
C/2017 S3	2018 07 19.028886	04 58 28.66	+55 32 13.2	12.0	N	K	Z80

C/2017 S3	2018 07 19.033740	04 58 31.10	+55 32 03.8	12.1	N	K Z80
C/2017 S3	2018 07 19.03535	04 58 32.08	+55 32 01.9	13.2	N	L05
C/2017 S3	2018 07 19.03603	04 58 32.16	+55 31 59.7	12.0	R	B96
C/2017 S3	2018 07 19.04050	04 58 34.42	+55 31 50.5	11.6	N	K02
C/2017 S3	2018 07 19.042282	04 58 35.28	+55 31 47.1	12.1	N	K Z80
C/2017 S3	2018 07 19.04420	04 58 36.31	+55 31 43.8	13.3	N	B69
C/2017 S3	2018 07 19.047125	04 58 37.63	+55 31 37.3	12.0	N	K Z80
C/2017 S3	2018 07 19.04816	04 58 38.17	+55 31 35.1	11.6	N	K02
C/2017 S3	2018 07 19.05028	04 58 39.14	+55 31 31.3	11.3	N	L12
C/2017 S3	2018 07 19.051968	04 58 40.00	+55 31 27.2	12.2	N	K Z80
C/2017 S3	2018 07 19.05478	04 58 41.47	+55 31 22.6	13.4	N	L05
C/2017 S3	2018 07 19.05567	04 58 41.94	+55 31 21.0	13.3	N	B69
C/2017 S3	2018 07 19.05737	04 58 42.74	+55 31 16.5	11.6	N	K02
C/2017 S3	2018 07 19.057474	04 58 42.68	+55 31 16.6	12.0	N	K Z80
C/2017 S3	2018 07 19.062320	04 58 45.02	+55 31 06.7	12.1	N	K Z80
C/2017 S3	2018 07 19.06240	04 58 45.06	+55 31 07.3	11.1	N	L12
C/2017 S3	2018 07 19.066922	04 58 47.19	+55 30 57.6	11.9	N	K Z80
C/2017 S3	2018 07 19.06693	04 58 47.51	+55 30 58.3	13.5	N	L05
C/2017 S3	2018 07 19.072381	04 58 49.90	+55 30 47.4	12.0	N	K Z80
C/2017 S3	2018 07 19.07590	04 58 51.60	+55 30 40.4	11.0	N	L12
C/2017 S3	2018 07 19.08802	04 58 57.63	+55 30 15.6	11.3	N	L12
C/2017 S3	2018 07 19.09853	04 59 02.90	+55 29 55.0	13.3	N	L05
C/2017 S3	2018 07 19.12633	04 59 16.56	+55 28 59.8	12.4	N	K14
C/2017 S3	2018 07 19.12755	04 59 17.12	+55 28 57.2	12.4	N	K14
C/2017 S3	2018 07 19.12876	04 59 17.73	+55 28 54.9	12.4	N	K14
C/2017 S3	2018 07 19.12998	04 59 18.33	+55 28 51.9	12.4	N	K14
C/2017 S3	2018 07 19.13119	04 59 18.95	+55 28 49.6	12.4	N	K14
C/2017 S3	2018 07 19.13240	04 59 19.47	+55 28 47.2	12.4	N	K14
C/2017 S3	2018 07 19.13361	04 59 20.13	+55 28 44.9	12.4	N	K14
C/2017 S3	2018 07 19.13486	04 59 20.62	+55 28 42.4	12.5	N	K14
C/2017 S3	2018 07 19.13608	04 59 21.33	+55 28 40.4	12.4	N	K14
C/2017 S3	2018 07 19.13729	04 59 21.92	+55 28 37.8	12.4	N	K14
C/2017 S3	2018 07 19.13850	04 59 22.46	+55 28 35.3	12.5	N	K14
C/2017 S3	2018 07 19.13971	04 59 23.09	+55 28 31.8	12.4	N	K14
C/2017 S3	2018 07 19.14154	04 59 23.97	+55 28 29.2	12.4	N	K14
C/2017 S3	2018 07 19.98467	05 06 19.40	+54 58 21.9	12.1	N	238
C/2017 S3	2018 07 19.98741	05 06 20.81	+54 58 15.9	12.1	N	238
C/2017 S3	2018 07 19.99160	05 06 22.96	+54 58 06.6	12.1	N	238
C/2017 S3	2018 07 20.00165	05 06 28.23	+54 57 44.4	13.4	G	C47
C/2017 S3	2018 07 20.00866	05 06 31.70	+54 57 28.0	13.6	G	C47
C/2017 S3	2018 07 20.01048	05 06 32.63	+54 57 23.4	13.5	G	C47
C/2017 S3	2018 07 20.01484	05 06 34.68	+54 57 13.2	10.9	N	970
C/2017 S3	2018 07 20.01584	05 06 35.29	+54 57 10.8	12.1	N	C23
C/2017 S3	2018 07 20.01749	05 06 36.05	+54 57 09.1	13.5	G	C47
C/2017 S3	2018 07 20.02376	05 06 39.31	+54 56 53.7	13.1	G	C47
C/2017 S3	2018 07 20.03040	05 06 42.63	+54 56 39.9	13.1	G	C47
C/2017 S3	2018 07 20.03156	05 06 43.05	+54 56 35.9	10.9	N	970
C/2017 S3	2018 07 20.03681	05 06 45.80	+54 56 24.2	12.0	N	C23
C/2017 S3	2018 07 20.04538	05 06 50.09	+54 56 05.4	12.1	N	K97
C/2017 S3	2018 07 20.04783	05 06 51.32	+54 55 59.6	12.0	N	K97
C/2017 S3	2018 07 20.04905	05 06 51.99	+54 55 57.5	12.0	N	K97
C/2017 S3	2018 07 20.06002	05 06 57.32	+54 55 32.5	11.4	N	C23
C/2017 S3	2018 07 20.06696	05 07 01.09	+54 55 16.2	13.4	N	K83
C/2017 S3	2018 07 20.06991	05 07 02.61	+54 55 09.5	12.8	N	K83
C/2017 S3	2018 07 20.07564	05 07 05.39	+54 54 57.2	12.8	N	K83
C/2017 S3	2018 07 20.08611	05 07 10.51	+54 54 34.3	12.6	N	A77
C/2017 S3	2018 07 20.08801	05 07 11.51	+54 54 29.7	12.6	N	A77
C/2017 S3	2018 07 20.09038	05 07 12.64	+54 54 24.5	12.6	N	A77
C/2017 S3	2018 07 20.09275	05 07 13.82	+54 54 19.4	12.6	N	A77
C/2017 S3	2018 07 20.09513	05 07 14.99	+54 54 13.7	12.6	N	A77
C/2017 S3	2018 07 20.09750	05 07 16.15	+54 54 08.1	12.6	N	A77
C/2017 S3	2018 07 20.09987	05 07 17.34	+54 54 02.9	12.6	N	A77
C/2017 S3	2018 07 20.10450	05 07 19.68	+54 53 52.8	12.2	N	A77
C/2017 S3	2018 07 20.10485	05 07 19.89	+54 53 52.4	11.4	V	A77
C/2017 S3	2018 07 20.10649	05 07 20.74	+54 53 48.2	12.2	N	A77
C/2017 S3	2018 07 20.10887	05 07 21.97	+54 53 42.6	12.3	N	A77
C/2017 S3	2018 07 20.11095	05 07 23.08	+54 53 37.6	11.4	V	A77
C/2017 S3	2018 07 20.11124	05 07 23.11	+54 53 37.4	12.2	N	A77
C/2017 S3	2018 07 20.11361	05 07 24.28	+54 53 31.9	12.2	N	A77
C/2017 S3	2018 07 20.11791	05 07 26.42	+54 53 23.1	8.7	T	A77
C/2017 S3	2018 07 20.13117	05 07 33.08	+54 52 52.9	11.8	N	C86
C/2017 S3	2018 07 20.13160	05 07 33.34	+54 52 51.8	11.8	N	C86
C/2017 S3	2018 07 20.13245	05 07 33.73	+54 52 49.6	11.8	N	C86
C/2017 S3	2018 07 20.44847	05 10 12.39	+54 40 37.5	12.0	N	V H06
C/2017 S3	2018 07 20.45396	05 10 15.14	+54 40 24.9	12.1	N	V H06
C/2017 S3	2018 07 20.75721	05 12 48.06	+54 28 17.2			349
C/2017 S3	2018 07 20.76013	05 12 49.54	+54 28 10.2			349
C/2017 S3	2018 07 20.76304	05 12 51.06	+54 28 02.9	8.3	T	349
C/2017 S3	2018 07 20.77176	05 12 55.54	+54 27 41.1			367
C/2017 S3	2018 07 20.77419	05 12 56.79	+54 27 35.3			367
C/2017 S3	2018 07 20.77662	05 12 58.01	+54 27 29.4	8.7	T	367
C/2017 S3	2018 07 21.44265	05 18 38.26	+53 59 18.0			V H06
C/2017 S3	2018 07 21.44925	05 18 41.59	+53 59 01.6	12.5	N	12H06
C/2017 S3	2018 07 21.45007	05 18 42.09	+53 58 59.1	12.9	V	V H06
C/2017 S3	2018 07 21.45346	05 18 43.81	+53 58 50.3	12.5	N	12H06
C/2017 S3	2018 07 21.72733	05 21 05.03	+53 46 36.5			349
C/2017 S3	2018 07 21.73018	05 21 06.52	+53 46 28.9			349
C/2017 S3	2018 07 21.73140	05 21 07.10	+53 46 26.5			D81
C/2017 S3	2018 07 21.73216	05 21 07.35	+53 46 24.3			D81
C/2017 S3	2018 07 21.73293	05 21 07.94	+53 46 21.5			D81
C/2017 S3	2018 07 21.73303	05 21 08.01	+53 46 21.2	9.6	T	349
C/2017 S3	2018 07 21.73369	05 21 08.20	+53 46 19.3	8.7	T	D81
C/2017 S3	2018 07 21.76409	05 21 23.80	+53 44 52.8	13.9	G	D35
C/2017 S3	2018 07 21.76506	05 21 24.29	+53 44 50.3	13.8	G	D35
C/2017 S3	2018 07 21.76603	05 21 24.81	+53 44 47.7	13.8	G	D35
C/2017 S3	2018 07 21.83073	05 21 58.52	+53 41 52.0	13.8	G	D35
C/2017 S3	2018 07 21.83225	05 21 59.26	+53 41 48.0	13.9	G	D35
C/2017 S3	2018 07 21.84732	05 22 07.11	+53 41 07.2	13.9	G	D35
C/2017 S3	2018 07 21.98248	05 23 16.93	+53 34 52.5	13.8	N	238
C/2017 S3	2018 07 21.98392	05 23 17.71	+53 34 48.3	13.9	N	238
C/2017 S3	2018 07 21.98595	05 23 18.80	+53 34 42.3	14.1	N	238
C/2017 S3	2018 07 22.02138	05 23 37.55	+53 33 01.6	13.4	R	B96
C/2017 S3	2018 07 22.02331	05 23 38.36	+53 32 58.3	13.6	N	C23
C/2017 S3	2018 07 22.02374	05 23 38.71	+53 32 55.4	13.3	R	B96
C/2017 S3	2018 07 22.02671	05 23 40.14	+53 32 47.2	13.4	R	B96
C/2017 S3	2018 07 22.03027	05 23 42.06	+53 32 38.0	13.4	R	B96

C/2017 S3	2018 07 22.03414	05 23 44.00	+53 32 27.5	13.4	R		B96
C/2017 S3	2018 07 22.03873	05 23 46.58	+53 32 14.2	13.4	R		B96
C/2017 S3	2018 07 22.04054	05 23 47.35	+53 32 10.6	13.5	N		C23
C/2017 S3	2018 07 22.04333	05 23 48.94	+53 32 00.9	13.4	R		B96
C/2017 S3	2018 07 22.04792	05 23 51.34	+53 31 48.9	13.4	R		B96
C/2017 S3	2018 07 22.05358	05 23 54.26	+53 31 32.6	13.4	R		B96
C/2017 S3	2018 07 22.05627	05 23 55.52	+53 31 27.0	13.6	N		C23
C/2017 S3	2018 07 22.06334	05 23 59.52	+53 31 05.8	12.4	V		A77
C/2017 S3	2018 07 22.06768	05 24 01.56	+53 30 53.1	12.5	V		A77
C/2017 S3	2018 07 22.07290	05 24 04.43	+53 30 39.9	10.5	T		A77
C/2017 S3	2018 07 22.14054	05 24 39.79	+53 27 28.9	14.7	N	K	J87
C/2017 S3	2018 07 22.14682	05 24 43.01	+53 27 11.9	14.8	N	K	J87
C/2017 S3	2018 07 22.15339	05 24 46.45	+53 26 52.9	14.7	N	K	J87
C/2017 S3	2018 07 22.20753	05 25 14.86	+53 24 20.6	12.8	N	9	G40
C/2017 S3	2018 07 22.21098	05 25 16.62	+53 24 10.6	12.8	N	9	G40
C/2017 S3	2018 07 22.21444	05 25 18.47	+53 24 00.9	12.8	N	9	G40
C/2017 S3	2018 07 22.88164	05 31 09.40	+52 50 59.1	13.9	G		D35
C/2017 S3	2018 07 22.88635	05 31 11.89	+52 50 45.0	14.2	G		D35
C/2017 S3	2018 07 22.88919	05 31 13.34	+52 50 36.6	14.3	G		D35
C/2017 S3	2018 07 22.93678	05 31 38.13	+52 48 05.8	13.4	N		C10
C/2017 S3	2018 07 22.95082	05 31 45.57	+52 47 22.8	13.4	N		C10
C/2017 S3	2018 07 22.96854	05 31 54.42	+52 46 32.8	11.3	T		C10
C/2017 S3	2018 07 22.98295	05 32 02.72	+52 45 43.5	13.3	N		C10
C/2017 S3	2018 07 22.98333	05 32 03.26	+52 45 44.3	14.1	N		B18
C/2017 S3	2018 07 22.98429	05 32 03.82	+52 45 41.5	14.0	N		B18
C/2017 S3	2018 07 22.98525	05 32 04.31	+52 45 38.5	13.9	N		B18
C/2017 S3	2018 07 22.98620	05 32 04.81	+52 45 35.5	14.0	N		B18
C/2017 S3	2018 07 22.98716	05 32 05.34	+52 45 32.6	13.9	N		B18
C/2017 S3	2018 07 22.98813	05 32 05.90	+52 45 28.8	14.0	N		B18
C/2017 S3	2018 07 22.98908	05 32 06.36	+52 45 25.7	14.1	N		B18
C/2017 S3	2018 07 22.99004	05 32 06.81	+52 45 23.2	13.9	N		B18
C/2017 S3	2018 07 22.99100	05 32 07.36	+52 45 21.2	14.1	N		B18
C/2017 S3	2018 07 22.99195	05 32 07.80	+52 45 17.9	14.1	N		B18
C/2017 S3	2018 07 22.99325	05 32 08.56	+52 45 12.8	14.0	N		B18
C/2017 S3	2018 07 22.99425	05 32 09.23	+52 45 10.4	14.0	N		B18
C/2017 S3	2018 07 22.99521	05 32 09.63	+52 45 07.1	14.0	N		B18
C/2017 S3	2018 07 22.99616	05 32 10.19	+52 45 05.2	14.1	N		B18
C/2017 S3	2018 07 22.99711	05 32 10.61	+52 45 02.3	14.1	N		B18
C/2017 S3	2018 07 22.99735	05 32 10.37	+52 44 58.8	13.4	N		C10
C/2017 S3	2018 07 22.99808	05 32 10.99	+52 44 58.0	14.1	N		B18
C/2017 S3	2018 07 22.99902	05 32 11.57	+52 44 56.7	14.1	N		B18
C/2017 S3	2018 07 22.99997	05 32 12.21	+52 44 52.7	14.1	N		B18
C/2017 S3	2018 07 23.00093	05 32 12.65	+52 44 50.6	14.0	N		B18
C/2017 S3	2018 07 23.00190	05 32 13.33	+52 44 46.2	14.1	N		B18
C/2017 S3	2018 07 23.00290	05 32 13.49	+52 44 44.8	14.2	N		B18
C/2017 S3	2018 07 23.00385	05 32 14.21	+52 44 40.5	14.0	N		B18
C/2017 S3	2018 07 23.00455	05 32 14.16	+52 44 37.2	13.4	N		C10
C/2017 S3	2018 07 23.00480	05 32 14.56	+52 44 37.8	14.1	N		B18
C/2017 S3	2018 07 23.00575	05 32 15.20	+52 44 35.9	13.9	N		B18
C/2017 S3	2018 07 23.00670	05 32 15.68	+52 44 32.6	13.9	N		B18
C/2017 S3	2018 07 23.00767	05 32 16.34	+52 44 30.0	14.1	N		B18
C/2017 S3	2018 07 23.00861	05 32 16.79	+52 44 26.2	14.0	N		B18
C/2017 S3	2018 07 23.00956	05 32 17.29	+52 44 23.1	14.0	N		B18
C/2017 S3	2018 07 23.01051	05 32 17.65	+52 44 20.9	13.9	N		B18
C/2017 S3	2018 07 23.01146	05 32 18.24	+52 44 17.6	13.9	N		B18
C/2017 S3	2018 07 23.01242	05 32 18.75	+52 44 14.9	14.0	N		B18
C/2017 S3	2018 07 23.01337	05 32 19.11	+52 44 11.2	14.1	N		B18
C/2017 S3	2018 07 23.01432	05 32 19.68	+52 44 08.2	14.0	N		B18
C/2017 S3	2018 07 23.01526	05 32 20.21	+52 44 05.7	14.1	N		B18
C/2017 S3	2018 07 23.01622	05 32 20.78	+52 44 02.8	13.9	N		B18
C/2017 S3	2018 07 23.01717	05 32 21.42	+52 43 59.2	14.0	N		B18
C/2017 S3	2018 07 23.02267	05 32 23.77	+52 43 41.1	12.1	N		970
C/2017 S3	2018 07 23.03711	05 32 31.61	+52 42 55.6	12.1	N		970
C/2017 S3	2018 07 23.04688	05 32 36.84	+52 42 24.6	14.8	G	K	J95
C/2017 S3	2018 07 23.06889	05 32 48.59	+52 41 15.8	14.9	G	K	J95
C/2017 S3	2018 07 23.07352	05 32 51.09	+52 41 01.2	14.7	G	K	J95
C/2017 S3	2018 07 23.09804	05 33 04.09	+52 39 45.5	14.9	G	K	J95
C/2017 S3	2018 07 23.10393	05 33 07.31	+52 39 28.9	14.0	N	K	A77
C/2017 S3	2018 07 23.10506	05 33 07.99	+52 39 25.1	14.0	N	K	A77
C/2017 S3	2018 07 23.11646	05 33 13.84	+52 38 49.9	12.6	V		A77
C/2017 S3	2018 07 23.12936	05 33 20.79	+52 38 10.1	12.8	N		J01
C/2017 S3	2018 07 23.12940	05 33 20.57	+52 38 10.9	12.6	V		A77
C/2017 S3	2018 07 23.13565	05 33 24.02	+52 37 49.7	12.8	N		J01
C/2017 S3	2018 07 23.14513	05 33 29.23	+52 37 18.8	12.8	N		J01
C/2017 S3	2018 07 23.20189	05 33 59.72	+52 34 19.8	13.4	N	9	G40
C/2017 S3	2018 07 23.20859	05 34 03.28	+52 33 58.4	13.5	N	9	G40
C/2017 S3	2018 07 23.21207	05 34 05.25	+52 33 47.5	13.5	N	9	G40
C/2017 S3	2018 07 23.21902	05 34 08.91	+52 33 26.0	13.5	N	9	G40
C/2017 S3	2018 07 23.22244	05 34 10.76	+52 33 14.7	13.5	N	9	G40
C/2017 S3	2018 07 23.74311	05 38 49.47	+52 04 49.7				D81
C/2017 S3	2018 07 23.74388	05 38 49.71	+52 04 47.1				D81
C/2017 S3	2018 07 23.74539	05 38 50.37	+52 04 40.6	9.6	T		D81
C/2017 S3	2018 07 23.86581	05 39 54.76	+51 57 49.8	11.3	N		A98
C/2017 S3	2018 07 23.86630	05 39 55.12	+51 57 48.4	11.1	N		A98
C/2017 S3	2018 07 23.86678	05 39 55.31	+51 57 47.0	11.5	N		A98
C/2017 S3	2018 07 23.86727	05 39 55.71	+51 57 42.8	11.7	N		A98
C/2017 S3	2018 07 23.86775	05 39 55.90	+51 57 42.7	11.6	N		A98
C/2017 S3	2018 07 23.86824	05 39 56.10	+51 57 41.3	11.5	N		A98
C/2017 S3	2018 07 23.86873	05 39 56.27	+51 57 44.0	11.9	N		A98
C/2017 S3	2018 07 24.00178	05 41 08.61	+51 50 04.1	14.6	N		238
C/2017 S3	2018 07 24.00742	05 41 11.71	+51 49 44.4	14.5	N		238
C/2017 S3	2018 07 24.01059	05 41 13.45	+51 49 33.3	14.5	N		238
C/2017 S3	2018 07 24.03902	05 41 28.89	+51 47 52.9	12.3	N		970
C/2017 S3	2018 07 24.04111	05 41 30.09	+51 47 44.7	13.7	N		K02
C/2017 S3	2018 07 24.04696	05 41 32.55	+51 47 30.3	13.4	N		L12
C/2017 S3	2018 07 24.04877	05 41 34.23	+51 47 19.2	13.6	N		K02
C/2017 S3	2018 07 24.05403	05 41 36.77	+51 47 04.4	12.4	N		L12
C/2017 S3	2018 07 24.05659	05 41 38.37	+51 46 53.3	13.8	N		C10
C/2017 S3	2018 07 24.05811	05 41 39.11	+51 46 47.5	13.7	N		K02
C/2017 S3	2018 07 24.06105	05 41 40.29	+51 46 42.0	12.7	N		L12
C/2017 S3	2018 07 24.06677	05 41 43.96	+51 46 18.4	13.7	N		C10
C/2017 S3	2018 07 24.06861	05 41 45.06	+51 46 09.6	12.4	N		970
C/2017 S3	2018 07 24.07725	05 41 49.61	+51 45 42.1	13.8	N		C10
C/2017 S3	2018 07 24.08331	05 41 53.05	+51 45 21.0	13.5	N	K	A77
C/2017 S3	2018 07 24.08622	05 41 54.53	+51 45 09.8			K	J95
C/2017 S3	2018 07 24.09233	05 41 57.76	+51 44 48.0			K	J95

C/2017 S3	2018 07 24.09362	05 41 58.65	+51 44 45.2	13.5 N	K	A77
C/2017 S3	2018 07 24.09703	05 42 00.44	+51 44 32.9	13.5 N	K	A77
C/2017 S3	2018 07 24.09887	05 42 01.43	+51 44 25.3	15.4 G	K	J95
C/2017 S3	2018 07 24.09998	05 42 01.29	+51 44 29.0	11.1 T		C10
C/2017 S3	2018 07 24.10692	05 42 05.79	+51 43 58.8	13.8 N		C10
C/2017 S3	2018 07 24.21203	05 43 03.14	+51 37 50.6	13.8 N		9 G40
C/2017 S3	2018 07 24.22247	05 43 08.80	+51 37 14.4	14.0 N		9 G40
C/2017 S3	2018 07 24.71581	05 47 37.60	+51 07 20.8		K	D81
C/2017 S3	2018 07 24.71733	05 47 38.25	+51 07 16.1	9.8 T	K	D81
C/2017 S3	2018 07 24.97134	05 49 57.18	+50 51 13.3	14.2 N		C10
C/2017 S3	2018 07 24.98495	05 50 04.21	+50 50 26.4	11.3 T		C10
C/2017 S3	2018 07 24.99174	05 50 08.55	+50 49 56.0	14.5 N		C10
C/2017 S3	2018 07 25.01624	05 50 22.11	+50 48 21.8	14.4 N		C10
C/2017 S3	2018 07 25.03892	05 50 34.79	+50 46 53.4	12.6 N		970
C/2017 S3	2018 07 25.048939	05 50 40.05	+50 46 15.8	10.7 T	K	Z80
C/2017 S3	2018 07 25.051354	05 50 41.35	+50 46 08.5	14.0 N	K	Z80
C/2017 S3	2018 07 25.053775	05 50 43.00	+50 45 57.5	13.9 N	K	Z80
C/2017 S3	2018 07 25.056197	05 50 44.19	+50 45 48.0	13.8 N	K	Z80
C/2017 S3	2018 07 25.058612	05 50 45.63	+50 45 38.1	13.9 N	K	Z80
C/2017 S3	2018 07 25.06096	05 50 46.90	+50 45 29.4	12.5 N		970
C/2017 S3	2018 07 25.061036	05 50 46.88	+50 45 30.0	13.8 N	K	Z80
C/2017 S3	2018 07 25.08725	05 51 01.32	+50 43 47.9		K	J95
C/2017 S3	2018 07 25.09138	05 51 03.71	+50 43 32.0		K	J95
C/2017 S3	2018 07 25.09552	05 51 05.94	+50 43 16.6		K	J95
C/2017 S3	2018 07 25.09685	05 51 06.76	+50 43 10.9	13.7 N	K	A77
C/2017 S3	2018 07 25.10327	05 51 10.13	+50 42 47.5	13.8 N	K	A77
C/2017 S3	2018 07 25.10412	05 51 10.71	+50 42 43.3	16.1 G	K	J95
C/2017 S3	2018 07 25.10919	05 51 13.37	+50 42 26.0	13.8 N	K	A77
C/2017 S3	2018 07 25.11937	05 51 19.01	+50 41 43.5	12.6 V	K	A77
C/2017 S3	2018 07 25.12155	05 51 20.25	+50 41 35.7	12.8 V	K	A77
C/2017 S3	2018 07 25.12460	05 51 21.82	+50 41 26.8	12.8 V	K	A77
C/2017 S3	2018 07 25.21994	05 52 15.02	+50 35 13.7	14.4 N		9 G40
C/2017 S3	2018 07 25.22511	05 52 17.85	+50 34 53.6	14.4 N		9 G40
C/2017 S3	2018 07 26.03532	05 59 47.23	+49 39 32.7	14.0 R		987
C/2017 S3	2018 07 26.03605	05 59 47.63	+49 39 31.7	14.0 R		987
C/2017 S3	2018 07 26.03933	05 59 49.36	+49 39 17.0	14.1 R		987
C/2017 S3	2018 07 26.03985	05 59 50.09	+49 39 14.9	14.0 R		987
C/2017 S3	2018 07 26.04030	05 59 50.38	+49 39 09.4	14.0 R		987
C/2017 S3	2018 07 26.058559	06 00 00.43	+49 37 54.5	11.2 T	K	Z80
C/2017 S3	2018 07 26.065529	06 00 04.40	+49 37 26.0	13.8 N	K	Z80
C/2017 S3	2018 07 26.069171	06 00 06.49	+49 37 09.0	14.1 N	K	Z80
C/2017 S3	2018 07 26.073169	06 00 08.56	+49 36 53.0	13.9 N	K	Z80
C/2017 S3	2018 07 26.07724	06 00 11.10	+49 36 34.4		K	J95
C/2017 S3	2018 07 26.08008	06 00 12.78	+49 36 22.0	14.5 N	K	C10
C/2017 S3	2018 07 26.08816	06 00 16.39	+49 35 56.2	11.2 T	K	C10
C/2017 S3	2018 07 26.08996	06 00 18.15	+49 35 40.6		K	J95
C/2017 S3	2018 07 26.09299	06 00 19.59	+49 35 31.8	13.1 V	K	A77
C/2017 S3	2018 07 26.09646	06 00 21.73	+49 35 12.1	13.1 V	K	A77
C/2017 S3	2018 07 26.09712	06 00 22.17	+49 35 11.0	14.7 N	K	C10
C/2017 S3	2018 07 26.09994	06 00 23.90	+49 35 00.0	10.1 T	K	A77
C/2017 S3	2018 07 26.10248	06 00 25.31	+49 34 46.0	16.6 G	K	J95
C/2017 S3	2018 07 26.10261	06 00 25.27	+49 34 48.2	14.1 N	K	A77
C/2017 S3	2018 07 26.10801	06 00 28.55	+49 34 25.0	14.1 N	K	A77
C/2017 S3	2018 07 26.11339	06 00 31.26	+49 34 02.4	14.2 N	K	A77
C/2017 S3	2018 07 26.11512	06 00 32.42	+49 33 52.8	14.5 N	K	C10
C/2017 S3	2018 07 26.20954	06 01 25.65	+49 27 06.0	14.6 N		9 G40
C/2017 S3	2018 07 26.21465	06 01 28.53	+49 26 44.3	14.6 N		9 G40
C/2017 S3	2018 07 27.06161	06 09 25.64	+48 22 43.1	14.8 N	K	C10
C/2017 S3	2018 07 27.08424	06 09 38.53	+48 20 56.5	14.9 N	K	C10
C/2017 S3	2018 07 27.09769	06 09 45.38	+48 20 01.4	11.1 T	K	C10
C/2017 S3	2018 07 27.09947	06 09 47.10	+48 19 47.0	14.2 N	K	A77
C/2017 S3	2018 07 27.10638	06 09 51.05	+48 19 14.5	14.2 N	K	A77
C/2017 S3	2018 07 27.11310	06 09 54.83	+48 18 41.5	14.3 N	K	A77
C/2017 S3	2018 07 27.11447	06 09 55.77	+48 18 33.2	14.8 N	K	C10
C/2017 S3	2018 07 27.22001	06 10 55.99	+48 10 10.8	15.0 N		9 G40
C/2017 S3	2018 07 27.22504	06 10 58.84	+48 09 47.6	15.1 N		9 G40
C/2017 S3	2018 07 28.21485	06 20 24.86	+46 46 34.4	15.5 N		9 G40
C/2017 S3	2018 07 28.22338	06 20 29.75	+46 45 49.9	15.4 N		9 G40
C/2017 S3	2018 07 29.72807	06 35 01.83	+44 23 04.6		K	D81
C/2017 S3	2018 07 29.72959	06 35 02.88	+44 22 58.1	9.0 T	K	D81
C/2017 S3	2018 07 29.78060	06 35 32.46	+44 17 49.3	9.6 T		349
C/2017 S3	2018 07 29.78203	06 35 33.19	+44 17 41.8			349
C/2017 S3	2018 07 30.11271	06 38 47.23	+43 43 21.9	15.5 N	K	A77
C/2017 S3	2018 07 30.11846	06 38 50.38	+43 42 35.9	16.5 N	K	A77
C/2017 S3	2018 07 30.21280	06 39 45.89	+43 32 42.6	15.2 N		9 G40
C/2017 S3	2018 07 30.22680	06 39 54.18	+43 31 13.2	15.0 N		9 G40
C/2017 S3	2018 07 31.07223	06 48 11.11	+41 57 37.5	13.3 N		K77
C/2017 S3	2018 07 31.07299	06 48 11.32	+41 57 34.5	13.5 N		K77
C/2017 S3	2018 07 31.11380	06 48 35.75	+41 53 04.3	15.6 N	K	A77
C/2017 S3	2018 07 31.11811	06 48 38.70	+41 52 28.8	15.2 N	K	A77
C/2017 S3	2018 07 31.12388	06 48 41.26	+41 51 53.0	15.7 N	K	A77
C/2017 S3	2018 07 31.22080	06 49 39.38	+41 40 37.8	15.4 N		9 G40
C/2017 S3	2018 07 31.22683	06 49 42.79	+41 39 57.1	15.6 N		9 G40
C/2017 S3	2018 08 01.22657	06 59 35.01	+39 38 43.8	15.5 N		9 G40
C/2017 S3	2018 08 01.22890	06 59 36.56	+39 38 26.4	15.5 N		9 G40
C/2017 S3	2018 08 02.10728	07 08 18.79	+37 43 23.5	16.3 N	K	C10
C/2017 S3	2018 08 02.11336	07 08 21.83	+37 42 42.3	11.5 T	K	C10
C/2017 S3	2018 08 02.11887	07 08 25.66	+37 41 46.2	16.1 N	K	C10
C/2017 S3	2018 08 02.22881	07 09 31.58	+37 26 55.3	16.2 N		9 G40
C/2017 S3	2018 08 02.23052	07 09 32.66	+37 26 40.3			9 G40
C/2017 S3	2018 08 03.07515	07 17 56.45	+35 27 28.8	12.9 N		K77
C/2017 S3	2018 08 03.07591	07 17 56.95	+35 27 20.9	13.2 N		K77
C/2017 S3	2018 08 03.10940	07 18 17.18	+35 22 26.2	16.6 N	K	C10
C/2017 S3	2018 08 03.11772	07 18 21.80	+35 21 21.3	11.5 T	K	C10
C/2017 S3	2018 08 03.12196	07 18 24.72	+35 20 37.5	16.2 N	K	C10

C/2017 S7 (Lemmon)

C/2017 S7	2018 09 15.42282	04 41 29.58	−09 48 50.3	20.4 G		G96
C/2017 S7	2018 09 15.42798	04 41 29.49	−09 48 52.7	20.2 G		G96
C/2017 S7	2018 09 15.43314	04 41 29.41	−09 48 55.7	20.2 G		G96
C/2017 S7	2018 09 15.43830	04 41 29.36	−09 48 57.7			G96

C/2017 T1 (Heinze)

C/2017 T1	2018 06 17.16422	21 43 01.66	−75 08 42.7	20.5 T		KW96
C/2017 T1	2018 06 17.18087	21 42 56.74	−75 09 24.2	20.4 T		KW96
C/2017 T1	2018 06 17.19751	21 42 51.90	−75 10 07.1	20.7 T		KW96

C/2017 T2 (PANSTARRS)

C/2017 T2	2018 08 08.78638	03 59 19.79	−03 40 57.1			Q11
C/2017 T2	2018 08 08.79067	03 59 19.83	−03 40 57.2			Q11
C/2017 T2	2018 08 08.79566	03 59 19.91	−03 40 57.4	16.8	T	Q11
C/2017 T2	2018 08 17.43252	04 01 03.35	−03 48 13.6	17.1	R	H47
C/2017 T2	2018 08 17.44108	04 01 03.41	−03 48 14.5	17.0	R	H47
C/2017 T2	2018 08 17.44875	04 01 03.52	−03 48 14.8	17.0	R	H47
C/2017 T2	2018 08 18.73407	04 01 15.78	−03 49 36.5			349
C/2017 T2	2018 08 18.77679	04 01 16.19	−03 49 38.9	17.0	T	349
C/2017 T2	2018 08 20.20867	04 01 28.88	−03 51 14.2	16.5	T	20G40
C/2017 T2	2018 08 20.23292	04 01 29.05	−03 51 15.7	16.4	T	20G40
C/2017 T2	2018 08 21.13131	04 01 36.48	−03 52 18.4	17.4	R	K 215
C/2017 T2	2018 08 21.13259	04 01 36.49	−03 52 18.6	17.4	R	K 215
C/2017 T2	2018 08 21.13388	04 01 36.50	−03 52 18.9	17.2	R	K 215
C/2017 T2	2018 08 24.20276	04 01 58.57	−03 56 05.9	17.1	T	9 G40
C/2017 T2	2018 08 24.20846	04 01 58.59	−03 56 06.1	17.1	T	9 G40
C/2017 T2	2018 08 24.21428	04 01 58.63	−03 56 06.7	17.1	T	9 G40
C/2017 T2	2018 09 07.62666	04 02 31.08	−04 18 17.6	17.9	G	K Q38
C/2017 T2	2018 09 07.63153	04 02 30.99	−04 18 18.3	17.6	G	K Q38
C/2017 T2	2018 09 10.08633	04 02 23.92	−04 22 44.0	17.2	N	K77
C/2017 T2	2018 09 10.09061	04 02 23.91	−04 22 44.5	16.9	N	K77
C/2017 T2	2018 09 17.61975	04 01 38.00	−04 37 02.6	16.8	o	T05
C/2017 T2	2018 09 17.62992	04 01 37.89	−04 37 03.6	16.7	o	T05
C/2017 T2	2018 09 17.63138	04 01 37.90	−04 37 03.6	17.3	o	T05
C/2017 T2	2018 09 17.64013	04 01 37.82	−04 37 05.0	17.2	o	T05
C/2017 T2	2018 09 17.64156	04 01 37.80	−04 37 05.2	17.0	o	T05
C/2017 T2	2018 09 19.61690	04 01 19.50	−04 41 00.1	17.0	o	T08
C/2017 T2	2018 09 19.62709	04 01 19.42	−04 41 01.0	16.7	o	T08
C/2017 T2	2018 09 19.63729	04 01 19.29	−04 41 02.5	16.7	o	T08

C/2017 T3 (ATLAS)

C/2017 T3	2018 07 09.83749	05 55 27.19	−01 14 47.6	11.6	G	Q38
C/2017 T3	2018 07 09.84110	05 55 28.15	−01 14 55.8	11.5	G	Q38
C/2017 T3	2018 07 09.84632	05 55 29.86	−01 15 11.6	11.8	G	Q38
C/2017 T3	2018 07 12.43443	06 07 38.05	−03 23 24.7	13.2	N	3W88
C/2017 T3	2018 07 12.43755	06 07 38.96	−03 23 34.3	13.3	N	3W88
C/2017 T3	2018 07 12.44103	06 07 40.00	−03 23 45.0	13.5	N	3W88
C/2017 T3	2018 07 12.44451	06 07 40.99	−03 23 55.0	13.5	N	3W88
C/2017 T3	2018 07 23.42501	07 07 38.99	−12 59 56.8	12.8	N	3W88
C/2017 T3	2018 07 23.42978	07 07 40.75	−13 00 11.9	12.9	N	3W88
C/2017 T3	2018 07 23.43064	07 07 41.04	−13 00 14.8	12.9	N	3W88
C/2017 T3	2018 07 23.43413	07 07 42.34	−13 00 25.9	12.8	N	3W88
C/2017 T3	2018 07 23.44468	07 07 46.21	−13 00 59.2	12.9	N	3W88
C/2017 T3	2018 08 02.42418	08 14 12.54	−21 14 04.8	13.5	N	3W88
C/2017 T3	2018 08 02.43730	08 14 18.19	−21 14 39.3	13.2	N	3W88
C/2017 T3	2018 08 02.43817	08 14 18.51	−21 14 42.3	13.3	N	3W88
C/2017 T3	2018 08 08.42692	08 57 43.97	−25 09 24.2	10.9	T	3W88
C/2017 T3	2018 08 08.43498	08 57 47.50	−25 09 40.4	11.0	T	3W88
C/2017 T3	2018 08 27.97383	11 10 28.93	−30 44 48.2	15.6	N	3W88
C/2017 T3	2018 08 27.97927	11 10 30.83	−30 44 49.1	15.6	N	3W88
C/2017 T3	2018 08 27.98500	11 10 32.82	−30 44 50.1	15.7	N	3W88
C/2017 T3	2018 09 06.98404	12 02 59.32	−30 41 47.1	16.1	N	3W88
C/2017 T3	2018 09 06.98918	12 03 00.88	−30 41 46.5	16.4	N	3W88

A/2017 U7

A/2017 U7	2018 06 17.36400	00 34 59.35	−35 27 02.3	17.4	R	13W88
A/2017 U7	2018 06 17.37872	00 34 59.22	−35 27 07.8	17.6	R	13W88
A/2017 U7	2018 06 21.72205	00 34 10.73	−35 53 32.0			1 Q62
A/2017 U7	2018 06 21.72540	00 34 10.69	−35 53 33.4	17.7	w	1 Q62
A/2017 U7	2018 07 12.57539	00 26 49.62	−38 21 16.8	17.5	o	T08
A/2017 U7	2018 07 12.57634	00 26 49.61	−38 21 17.2	17.4	o	T08
A/2017 U7	2018 07 12.57910	00 26 49.53	−38 21 18.5	18.0	o	T08
A/2017 U7	2018 07 12.58555	00 26 49.33	−38 21 21.4	17.6	o	T08
A/2017 U7	2018 07 12.58601	00 26 49.28	−38 21 21.6	17.7	o	T08
A/2017 U7	2018 07 12.59154	00 26 49.11	−38 21 23.8	17.6	o	T08
A/2017 U7	2018 07 12.60259	00 26 48.82	−38 21 29.4	17.6	o	T08
A/2017 U7	2018 07 16.57579	00 24 40.95	−38 52 43.9	17.7	o	T08
A/2017 U7	2018 07 16.58365	00 24 40.65	−38 52 47.1	17.6	o	T08
A/2017 U7	2018 07 16.59152	00 24 40.40	−38 52 50.5	17.5	o	T08
A/2017 U7	2018 07 16.59936	00 24 40.12	−38 52 54.3	17.8	o	T08
A/2017 U7	2018 07 20.55872	00 22 17.38	−39 24 39.3	17.6	o	T08
A/2017 U7	2018 07 20.57072	00 22 16.97	−39 24 44.2	17.7	o	T08
A/2017 U7	2018 07 20.57900	00 22 16.73	−39 24 49.4	17.1	o	T08
A/2017 U7	2018 07 20.58038	00 22 16.64	−39 24 48.5	17.4	o	T08
A/2017 U7	2018 07 22.54121	00 21 00.28	−39 40 41.9	17.4	o	T05
A/2017 U7	2018 07 22.54907	00 20 59.94	−39 40 45.8	17.4	o	T05
A/2017 U7	2018 07 22.55688	00 20 59.62	−39 40 49.6	17.8	o	T05
A/2017 U7	2018 07 22.56468	00 20 59.30	−39 40 53.4	17.3	o	T05
A/2017 U7	2018 07 23.29589	00 20 29.84	−39 46 48.4	17.1	R	13W88
A/2017 U7	2018 07 23.31679	00 20 29.02	−39 46 58.8	17.0	R	13W88
A/2017 U7	2018 08 04.26769	00 11 11.20	−41 24 20.9	17.5	R	13W88
A/2017 U7	2018 08 04.30603	00 11 09.11	−41 24 39.2	17.5	R	13W88
A/2017 U7	2018 08 13.50651	00 02 23.01	−42 37 08.4	17.4	o	T08
A/2017 U7	2018 08 13.51710	00 02 22.37	−42 37 13.1	17.2	o	T08
A/2017 U7	2018 08 13.52312	00 02 21.97	−42 37 16.1	17.3	o	T08
A/2017 U7	2018 08 13.52958	00 02 21.62	−42 37 18.7	17.3	o	T08
A/2017 U7	2018 08 16.36489	23 59 23.20	−42 58 36.5	17.1	R	13W88
A/2017 U7	2018 08 16.37875	23 59 22.29	−42 58 43.3	16.8	R	13W88

C/2017 W2 (Leonard)

C/2017 W2	2018 01 14.36181	09 22 08.29	+13 54 45.1			5 U69
C/2017 W2	2018 01 14.36567	09 22 07.91	+13 54 43.7	19.2	w	5 U69

P/2017 W3 (Gibbs)

P/2017 W3	2018 06 13.32376	11 52 05.80	−05 05 13.3	19.3	o	T05
P/2017 W3	2018 06 13.33408	11 52 06.12	−05 05 12.2	19.1	o	T05
P/2017 W3	2018 06 13.34478	11 52 06.50	−05 05 11.8	19.4	o	T05
P/2017 W3	2018 06 13.35540	11 52 06.86	−05 05 11.5	19.2	o	T05

C/2017 X1 (PANSTARRS)

C/2017 X1	2018 06 07.35279	10 01 00.61	−20 50 29.1	19.4	N	K 474
C/2017 X1	2018 06 07.35490	10 01 00.70	−20 50 28.8	19.4	N	K 474
C/2017 X1	2018 06 07.35701	10 01 00.80	−20 50 28.5	19.5	N	K 474
C/2017 X1	2018 06 07.35912	10 01 00.87	−20 50 28.3	19.4	N	K 474
C/2017 X1	2018 07 17.31274	10 37 36.67	−20 34 01.3	19.4	N	K 474
C/2017 X1	2018 07 17.31485	10 37 36.80	−20 34 01.5	19.5	N	K 474
C/2017 X1	2018 07 17.31696	10 37 36.91	−20 34 01.9	19.5	N	K 474
C/2017 X1	2018 07 17.31907	10 37 37.06	−20 34 02.0	19.6	N	K 474

P/2017 Y3 (Leonard)

P/2017 Y3	2018 05 24.69877	21 43 14.13	+08 50 01.4	19.1	T	349
P/2017 Y3	2018 05 24.70907	21 43 14.62	+08 50 02.0			349
P/2017 Y3	2018 08 18.40464	21 09 44.156	−05 11 50.56	22.3	w	F51
P/2017 Y3	2018 08 18.42990	21 09 42.906	−05 12 13.10	22.4	w	F51
P/2017 Y3	2018 08 18.44248	21 09 42.293	−05 12 24.20	22.4	w	F51

C/2018 A1 (PANSTARRS)

C/2018 A1	2018 06 11.259159	09 13 25.223	+28 31 45.65	22.6	G	29 568

C/2018 A3 (ATLAS)

C/2018 A3	2018 04 08.86688	11 29 31.05	+29 55 57.2			246
C/2018 A3	2018 04 08.86722	11 29 31.01	+29 55 57.6			246
C/2018 A3	2018 04 08.86770	11 29 30.97	+29 55 57.9			246
C/2018 A3	2018 04 08.86810	11 29 30.92	+29 55 57.8			246
C/2018 A3	2018 04 08.86832	11 29 30.91	+29 55 58.3			246
C/2018 A3	2018 04 08.86887	11 29 30.85	+29 55 58.7			246
C/2018 A3	2018 04 08.86918	11 29 30.85	+29 55 58.8			246
C/2018 A3	2018 04 08.86979	11 29 30.77	+29 55 59.5			246
C/2018 A3	2018 04 21.88057	11 10 05.60	+32 06 00.6	17.7	N	585
C/2018 A3	2018 04 21.88127	11 10 05.49	+32 06 00.9	17.1	N	585
C/2018 A3	2018 04 21.88198	11 10 05.46	+32 06 01.4	17.2	N	585
C/2018 A3	2018 04 21.88269	11 10 05.43	+32 06 01.7	18.0	N	585
C/2018 A3	2018 04 21.88340	11 10 05.35	+32 06 02.2	17.5	N	585
C/2018 A3	2018 04 21.88411	11 10 05.31	+32 06 02.5	16.7	N	585
C/2018 A3	2018 04 21.88481	11 10 05.25	+32 06 02.4	17.4	N	585
C/2018 A3	2018 04 21.88552	11 10 05.17	+32 06 03.1	17.4	N	585
C/2018 A3	2018 04 21.88623	11 10 05.09	+32 06 03.8	17.0	N	585
C/2018 A3	2018 04 21.88694	11 10 05.06	+32 06 04.0	17.2	N	585
C/2018 A3	2018 04 21.88765	11 10 05.01	+32 06 04.2	17.5	N	585
C/2018 A3	2018 05 16.96507	10 41 51.24	+34 20 07.6	17.1	N	J22
C/2018 A3	2018 05 16.97087	10 41 50.96	+34 20 08.5	17.1	N	J22
C/2018 A3	2018 05 16.97279	10 41 50.84	+34 20 08.9	17.1	N	J22
C/2018 A3	2018 05 20.56952	10 38 59.57	+34 29 45.3	17.1	T	D95
C/2018 A3	2018 05 20.57237	10 38 59.44	+34 29 45.3			D95
C/2018 A3	2018 05 20.58236	10 38 59.00	+34 29 47.5			D95
C/2018 A3	2018 05 25.83185	10 35 21.46	+34 40 46.1	17.2	N	K 160
C/2018 A3	2018 05 25.83323	10 35 21.41	+34 40 45.8	17.6	N	K 160
C/2018 A3	2018 05 30.89040	10 32 26.83	+34 48 21.9	17.4	N	K 585
C/2018 A3	2018 05 30.89118	10 32 26.85	+34 48 21.6	17.3	N	K 585
C/2018 A3	2018 05 30.89197	10 32 26.81	+34 48 21.9	17.4	N	K 585
C/2018 A3	2018 05 30.89317	10 32 26.76	+34 48 22.3	17.5	N	K 585
C/2018 A3	2018 05 30.89395	10 32 26.73	+34 48 22.2	17.6	N	K 585
C/2018 A3	2018 05 30.89474	10 32 26.69	+34 48 22.5	17.6	N	K 585
C/2018 A3	2018 05 30.89552	10 32 26.67	+34 48 22.3	17.6	N	K 585
C/2018 A3	2018 05 30.89630	10 32 26.66	+34 48 22.5	18.0	N	K 585
C/2018 A3	2018 05 30.89722	10 32 26.62	+34 48 22.7	17.8	N	K 585
C/2018 A3	2018 05 30.89814	10 32 26.58	+34 48 22.4	17.5	N	K 585
C/2018 A3	2018 05 30.89906	10 32 26.56	+34 48 22.6	17.9	N	K 585
C/2018 A3	2018 05 30.89992	10 32 26.53	+34 48 22.3	17.8	N	K 585
C/2018 A3	2018 05 30.90076	10 32 26.49	+34 48 22.5	17.9	N	K 585
C/2018 A3	2018 05 30.90160	10 32 26.48	+34 48 22.4	18.3	N	K 585
C/2018 A3	2018 05 30.90204	10 32 26.50	+34 48 22.5	18.3	N	K 585
C/2018 A3	2018 05 30.90289	10 32 26.46	+34 48 22.4	18.2	N	K 585
C/2018 A3	2018 05 31.36296	10 32 12.26	+34 48 57.9	17.5	o	T08
C/2018 A3	2018 05 31.36388	10 32 12.18	+34 48 57.7	17.4	o	T08
C/2018 A3	2018 05 31.37101	10 32 11.99	+34 48 57.9	17.2	o	T08
C/2018 A3	2018 05 31.37243	10 32 11.94	+34 48 58.3	17.1	o	T08
C/2018 A3	2018 05 31.37946	10 32 11.73	+34 48 59.0	17.3	o	T08
C/2018 A3	2018 05 31.38843	10 32 11.46	+34 48 59.6	17.4	o	T08
C/2018 A3	2018 05 31.39074	10 32 11.38	+34 49 00.4	17.5	o	T08
C/2018 A3	2018 05 31.85324	10 31 57.34	+34 49 33.1	17.1	N	585
C/2018 A3	2018 05 31.85395	10 31 57.38	+34 49 32.1	17.2	N	585
C/2018 A3	2018 05 31.85466	10 31 57.30	+34 49 32.2	17.4	N	585
C/2018 A3	2018 05 31.85537	10 31 57.30	+34 49 33.3	17.7	N	585
C/2018 A3	2018 05 31.85609	10 31 57.34	+34 49 31.6	17.1	N	585
C/2018 A3	2018 05 31.85680	10 31 57.37	+34 49 32.7	17.1	N	585
C/2018 A3	2018 05 31.85821	10 31 57.19	+34 49 32.5	17.1	N	585
C/2018 A3	2018 05 31.85892	10 31 57.22	+34 49 33.3	17.2	N	585
C/2018 A3	2018 05 31.85963	10 31 57.27	+34 49 33.0	16.8	N	585
C/2018 A3	2018 05 31.86034	10 31 57.19	+34 49 33.5	17.9	N	585
C/2018 A3	2018 05 31.86246	10 31 57.17	+34 49 33.0	17.0	N	585
C/2018 A3	2018 05 31.86317	10 31 57.11	+34 49 33.1	17.1	N	585
C/2018 A3	2018 05 31.86388	10 31 57.04	+34 49 32.3	17.5	N	585
C/2018 A3	2018 05 31.86530	10 31 57.04	+34 49 33.2	17.4	N	585
C/2018 A3	2018 06 01.82854	10 31 28.79	+34 50 38.6	17.3	N	K 160
C/2018 A3	2018 06 01.83088	10 31 28.71	+34 50 38.9	17.2	N	K 160
C/2018 A3	2018 06 01.83322	10 31 28.63	+34 50 39.5	17.8	N	K 160
C/2018 A3	2018 06 02.56072	10 31 08.14	+34 51 25.2	16.9	T	349
C/2018 A3	2018 06 02.57192	10 31 07.84	+34 51 25.6			349
C/2018 A3	2018 06 04.85034	10 30 07.66	+34 53 33.6	17.1	N	585
C/2018 A3	2018 06 04.85105	10 30 07.58	+34 53 33.4	16.8	N	585
C/2018 A3	2018 06 04.85175	10 30 07.58	+34 53 33.5	17.3	N	585
C/2018 A3	2018 06 04.85246	10 30 07.57	+34 53 33.3	16.8	N	585
C/2018 A3	2018 06 04.85317	10 30 07.53	+34 53 33.2	17.3	N	585
C/2018 A3	2018 06 04.85388	10 30 07.53	+34 53 33.5	17.5	N	585
C/2018 A3	2018 06 04.85459	10 30 07.52	+34 53 33.4	17.4	N	585
C/2018 A3	2018 06 04.85529	10 30 07.50	+34 53 33.6	17.9	N	585
C/2018 A3	2018 06 04.85600	10 30 07.46	+34 53 33.5	17.2	N	585
C/2018 A3	2018 06 04.85671	10 30 07.41	+34 53 33.2	17.4	N	585
C/2018 A3	2018 06 04.85742	10 30 07.45	+34 53 33.0	17.3	N	585
C/2018 A3	2018 06 04.85813	10 30 07.41	+34 53 33.3	17.4	N	585
C/2018 A3	2018 06 04.85884	10 30 07.41	+34 53 33.4	17.4	N	585
C/2018 A3	2018 06 04.85955	10 30 07.42	+34 53 33.8	17.8	N	585
C/2018 A3	2018 06 04.86025	10 30 07.37	+34 53 33.5	17.1	N	585
C/2018 A3	2018 06 04.86096	10 30 07.35	+34 53 33.7	17.3	N	585
C/2018 A3	2018 06 04.86167	10 30 07.31	+34 53 34.0	17.4	N	585
C/2018 A3	2018 06 04.86238	10 30 07.34	+34 53 33.6	17.6	N	585
C/2018 A3	2018 06 04.86309	10 30 07.28	+34 53 34.0	17.5	N	585
C/2018 A3	2018 06 04.95454	10 30 05.02	+34 53 38.6	17.3	N	J22
C/2018 A3	2018 06 04.95843	10 30 04.88	+34 53 38.6	17.3	N	J22
C/2018 A3	2018 06 04.96231	10 30 04.80	+34 53 38.9	17.3	N	J22
C/2018 A3	2018 06 12.92218	10 27 24.63	+34 58 12.4	17.0	T	9 G40
C/2018 A3	2018 06 12.92675	10 27 24.55	+34 58 12.6	17.0	T	9 G40
C/2018 A3	2018 06 16.80146	10 26 32.44	+34 59 10.8			8 094
C/2018 A3	2018 06 16.80407	10 26 32.40	+34 59 10.8	17.1	R	8 094
C/2018 A3	2018 06 16.80623	10 26 32.43	+34 59 10.7			8 094

C/2018 A3	2018 06 18.27977	10 26 16.86	+34 59 23.6	17.3	c	T05
C/2018 A3	2018 06 18.29083	10 26 16.67	+34 59 24.0	17.8	c	T05
C/2018 A3	2018 06 18.30122	10 26 16.67	+34 59 24.0	17.4	c	T05
C/2018 A3	2018 06 18.31223	10 26 16.50	+34 59 24.2	17.7	c	T05
C/2018 A3	2018 06 22.91013	10 25 41.86	+34 59 35.7	17.4	N	K97
C/2018 A3	2018 06 22.91607	10 25 41.76	+34 59 34.7	17.5	N	K97
C/2018 A3	2018 06 25.90033	10 25 30.23	+34 59 26.9	17.7	N	K97
C/2018 A3	2018 06 25.90895	10 25 30.16	+34 59 26.3	17.6	N	K97
C/2018 A3	2018 06 25.91469	10 25 30.25	+34 59 25.9	17.7	N	K97
C/2018 A3	2018 06 30.89158	10 25 28.44	+34 58 53.2	17.3	N	K97
C/2018 A3	2018 06 30.89445	10 25 28.42	+34 58 53.2	17.3	N	K97
C/2018 A3	2018 06 30.90019	10 25 28.38	+34 58 53.8	17.5	N	K97
C/2018 A3	2018 06 30.90306	10 25 28.19	+34 58 53.9	17.6	N	K97
C/2018 A3	2018 07 02.90077	10 25 33.61	+34 58 36.0	17.4	N	K L27
C/2018 A3	2018 07 02.91594	10 25 33.73	+34 58 36.4	17.4	N	K L27
C/2018 A3	2018 07 12.26020	10 26 38.91	+34 57 19.4	17.5	c	T05
C/2018 A3	2018 07 12.26930	10 26 39.05	+34 57 19.7	17.5	c	T05
C/2018 A3	2018 07 12.28046	10 26 39.18	+34 57 19.3	17.3	c	T05
C/2018 A3	2018 07 13.88403	10 26 56.66	+34 57 10.0	17.3	N	9 G40
C/2018 A3	2018 07 13.89091	10 26 56.74	+34 57 10.6	17.5	N	9 G40

C/2018 A6 (Gibbs)

C/2018 A6	2018 06 13.46807	09 57 01.93	+02 59 31.6	17.8	T	K Q11
C/2018 A6	2018 06 13.47852	09 57 02.03	+02 59 27.8			K Q11
C/2018 A6	2018 06 17.25847	09 57 51.73	+02 36 49.1	18.5	c	T05
C/2018 A6	2018 06 17.26374	09 57 51.77	+02 36 47.5	18.9	c	T05
C/2018 A6	2018 06 17.27419	09 57 51.95	+02 36 43.8	18.5	c	T05
C/2018 A6	2018 06 17.27788	09 57 51.96	+02 36 42.5	18.7	c	T05
C/2018 A6	2018 06 17.28512	09 57 52.03	+02 36 39.5	18.5	c	T05

C/2018 B1 (Lemmon)

C/2018 B1	2018 02 03.12580	03 41 49.71	+36 46 21.6			5 U69
C/2018 B1	2018 02 03.12945	03 41 49.53	+36 46 20.6	19.4	w	5 U69
C/2018 B1	2018 09 05.46084	03 18 51.15	+37 48 12.4	18.7	G	703
C/2018 B1	2018 09 05.46665	03 18 50.70	+37 48 13.9	18.5	G	703
C/2018 B1	2018 09 05.47249	03 18 50.39	+37 48 14.5	18.5	G	703
C/2018 B1	2018 09 05.47836	03 18 50.11	+37 48 14.9	18.6	G	703
C/2018 B1	2018 09 05.91277	03 18 24.87	+37 48 42.9	18.5	R	K 215
C/2018 B1	2018 09 05.91470	03 18 24.74	+37 48 43.7	18.4	R	K 215
C/2018 B1	2018 09 05.91662	03 18 24.62	+37 48 44.4	18.8	R	K 215
C/2018 B1	2018 09 07.58103	03 16 45.06	+37 50 30.7	18.9	o	T05
C/2018 B1	2018 09 07.59099	03 16 44.45	+37 50 31.8	18.8	o	T05
C/2018 B1	2018 09 07.60082	03 16 43.86	+37 50 31.9	18.9	o	T05
C/2018 B1	2018 09 07.60984	03 16 43.32	+37 50 33.4	19.0	o	T05
C/2018 B1	2018 09 08.37533	03 15 56.37	+37 51 15.4	19.2	G	703
C/2018 B1	2018 09 08.38017	03 15 56.08	+37 51 15.9	18.9	G	703
C/2018 B1	2018 09 08.38502	03 15 55.73	+37 51 15.2	18.8	G	703
C/2018 B1	2018 09 08.38987	03 15 55.47	+37 51 16.9	18.7	G	703
C/2018 B1	2018 09 11.38463	03 12 44.07	+37 53 29.5	19.1	G	703
C/2018 B1	2018 09 11.38992	03 12 43.66	+37 53 30.9	18.8	G	703
C/2018 B1	2018 09 11.39522	03 12 43.37	+37 53 30.2	19.1	G	703
C/2018 B1	2018 09 11.40051	03 12 42.98	+37 53 31.0	18.8	G	703
C/2018 B1	2018 09 18.44897	03 04 25.76	+37 54 30.3			G96
C/2018 B1	2018 09 18.45420	03 04 25.36	+37 54 30.6			G96
C/2018 B1	2018 09 18.45945	03 04 24.92	+37 54 30.2	19.1	G	G96
C/2018 B1	2018 09 18.46466	03 04 24.52	+37 54 30.3			G96

P/2018 C1 (Lemmon-Read)

P/2018 C1	2018 05 28.14924	09 56 38.39	+07 01 17.0	20.8	T	28 695
P/2018 C1	2018 05 28.15655	09 56 38.93	+07 01 14.8	22.0	T	28 695
P/2018 C1	2018 05 28.16387	09 56 39.47	+07 01 12.1	21.5	T	28 695

C/2018 C2 (Lemmon)

C/2018 C2	2018 03 22.18762	15 11 22.94	+40 43 30.1	17.7	T	2 Z18
C/2018 C2	2018 03 22.19080	15 11 23.12	+40 43 31.8	17.7	T	2 Z18
C/2018 C2	2018 03 22.19391	15 11 23.20	+40 43 33.2	17.7	T	2 Z18
C/2018 C2	2018 03 22.19825	15 11 23.29	+40 43 34.1	17.7	T	2 Z18
C/2018 C2	2018 04 13.50400	15 12 03.83	+41 40 00.3			5 U69
C/2018 C2	2018 04 13.50615	15 12 03.80	+41 40 00.0	16.9	w	5 U69
C/2018 C2	2018 04 22.02169	15 08 13.00	+41 03 30.0	16.3	N	585
C/2018 C2	2018 04 22.02240	15 08 12.97	+41 03 29.8	16.2	N	585
C/2018 C2	2018 04 22.02426	15 08 12.94	+41 03 28.7	16.2	N	585
C/2018 C2	2018 04 22.02497	15 08 12.88	+41 03 28.7	16.3	N	585
C/2018 C2	2018 04 22.02567	15 08 12.86	+41 03 28.5	16.3	N	585
C/2018 C2	2018 04 22.02638	15 08 12.82	+41 03 28.1	16.0	N	585
C/2018 C2	2018 04 22.02711	15 08 12.80	+41 03 27.9	16.1	N	585
C/2018 C2	2018 04 22.02782	15 08 12.78	+41 03 27.7	16.2	N	585
C/2018 C2	2018 04 22.02853	15 08 12.75	+41 03 27.3	16.3	N	585
C/2018 C2	2018 04 22.02924	15 08 12.72	+41 03 26.9	16.2	N	585
C/2018 C2	2018 04 27.70191	15 04 48.900	+40 15 49.78	16.8	G	D35
C/2018 C2	2018 04 27.70544	15 04 48.749	+40 15 47.60	16.8	G	D35
C/2018 C2	2018 04 27.70897	15 04 48.602	+40 15 45.46	16.7	G	D35
C/2018 C2	2018 04 27.71250	15 04 48.453	+40 15 43.29	16.8	G	D35
C/2018 C2	2018 04 27.71604	15 04 48.306	+40 15 41.14	16.8	G	D35
C/2018 C2	2018 04 27.84524	15 04 42.950	+40 14 20.34	16.7	G	D35
C/2018 C2	2018 04 28.69395	15 04 10.434	+40 05 26.66	16.5	G	t D35
C/2018 C2	2018 04 28.69749	15 04 10.286	+40 05 24.36	16.7	G	D35
C/2018 C2	2018 04 28.70103	15 04 10.132	+40 05 22.03	16.8	G	D35
C/2018 C2	2018 04 28.70456	15 04 09.981	+40 05 19.71	16.8	G	D35
C/2018 C2	2018 04 28.85363	15 04 03.711	+40 03 40.83	16.7	G	t D35
C/2018 C2	2018 04 28.85716	15 04 03.564	+40 03 38.44	16.7	G	t D35
C/2018 C2	2018 04 28.86069	15 04 03.421	+40 03 36.07	16.6	G	t D35
C/2018 C2	2018 04 28.86424	15 04 03.274	+40 03 33.63	16.9	G	D35
C/2018 C2	2018 05 07.23712	14 58 21.46	+38 09 41.7	15.9	R	K H47
C/2018 C2	2018 05 07.25456	14 58 20.66	+38 09 24.5	16.0	R	K H47
C/2018 C2	2018 05 07.26697	14 58 20.10	+38 09 12.3	16.0	R	K H47
C/2018 C2	2018 05 12.50247	14 54 46.248	+36 34 27.34	16.3	G	D35
C/2018 C2	2018 05 12.50600	14 54 46.099	+36 34 23.25	16.3	G	D35
C/2018 C2	2018 05 12.50953	14 54 45.950	+36 34 19.04	16.3	G	D35
C/2018 C2	2018 05 12.51571	14 54 45.689	+36 34 11.86	16.3	G	D35
C/2018 C2	2018 05 12.51924	14 54 45.540	+36 34 07.77	16.3	G	D35
C/2018 C2	2018 05 12.79359	14 54 33.770	+36 28 39.43	16.3	G	D35
C/2018 C2	2018 05 12.79712	14 54 33.624	+36 28 35.11	16.4	G	D35
C/2018 C2	2018 05 12.80065	14 54 33.473	+36 28 30.86	16.3	G	D35
C/2018 C2	2018 05 12.80420	14 54 33.329	+36 28 26.50	16.3	G	D35
C/2018 C2	2018 05 12.80773	14 54 33.181	+36 28 22.19	16.3	G	D35
C/2018 C2	2018 05 12.88750	14 54 30.87	+36 26 46.0	16.1	N	19G40
C/2018 C2	2018 05 12.89175	14 54 30.69	+36 26 41.1	16.0	N	19G40

C/2018 C2	2018 05 12.89655	14 54 30.48	+36 26 35.4	16.0	N			19G40
C/2018 C2	2018 05 13.49596	14 54 06.849	+36 14 26.59	16.3	G			D35
C/2018 C2	2018 05 13.49950	14 54 06.695	+36 14 22.29	16.3	G			D35
C/2018 C2	2018 05 13.50304	14 54 06.551	+36 14 18.01	16.3	G			D35
C/2018 C2	2018 05 13.50657	14 54 06.401	+36 14 13.81	16.3	G			D35
C/2018 C2	2018 05 14.46219	14 53 28.97	+35 54 20.9					D95
C/2018 C2	2018 05 14.46867	14 53 28.70	+35 54 12.6					D95
C/2018 C2	2018 05 14.47190	14 53 28.57	+35 54 08.5	15.7	T			D95
C/2018 C2	2018 05 15.83458	14 52 35.643	+35 24 48.03	16.2	G		t	D35
C/2018 C2	2018 05 15.83811	14 52 35.502	+35 24 43.20	16.3	G		t	D35
C/2018 C2	2018 05 15.84164	14 52 35.362	+35 24 38.45	16.3	G		t	D35
C/2018 C2	2018 05 16.50791	14 52 11.327	+35 09 53.16	16.2	G		t	D35
C/2018 C2	2018 05 16.61145	14 52 07.173	+35 07 35.07	16.2	G			D35
C/2018 C2	2018 05 16.67714	14 52 04.516	+35 06 06.32	16.2	G			D35
C/2018 C2	2018 05 16.71362	14 52 03.051	+35 05 16.74	16.7	G			D35
C/2018 C2	2018 05 16.78521	14 52 00.224	+35 03 38.74	16.8	G			D35
C/2018 C2	2018 05 16.81907	14 51 58.917	+35 02 52.16	16.2	G		t	D35
C/2018 C2	2018 05 16.97558	14 51 53.77	+34 59 21.2	15.8	N			J22
C/2018 C2	2018 05 16.97944	14 51 53.64	+34 59 16.0	15.8	N			J22
C/2018 C2	2018 05 16.98329	14 51 53.55	+34 59 10.3	15.8	N			J22
C/2018 C2	2018 05 17.50120	14 51 34.845	+34 47 19.91	16.1	G		t	D35
C/2018 C2	2018 05 17.56490	14 51 32.358	+34 45 52.67	16.2	G		t	D35
C/2018 C2	2018 05 17.67426	14 51 28.038	+34 43 21.31	16.1	G		t	D35
C/2018 C2	2018 05 17.74020	14 51 25.457	+34 41 48.93	16.3	G			D35
C/2018 C2	2018 05 17.77674	14 51 24.055	+34 40 57.49	16.3	G			D35
C/2018 C2	2018 05 17.81925	14 51 22.452	+34 39 57.48	16.2	G		t	D35
C/2018 C2	2018 05 17.82693	14 51 22.160	+34 39 46.50	16.3	G		t	D35
C/2018 C2	2018 05 17.88885	14 51 20.37	+34 38 19.7	15.1	N	K		B50
C/2018 C2	2018 05 17.89730	14 51 20.08	+34 38 07.5	15.4	N	K		B50
C/2018 C2	2018 05 17.94331	14 51 18.45	+34 37 03.3	15.8	N	K		B50
C/2018 C2	2018 05 17.96085	14 51 17.81	+34 36 38.8	16.4	N	K		B50
C/2018 C2	2018 05 18.63245	14 50 53.989	+34 20 54.64	16.3	G			D35
C/2018 C2	2018 05 18.74482	14 50 49.693	+34 18 13.56	16.3	G			D35
C/2018 C2	2018 05 18.77595	14 50 48.531	+34 17 28.63	16.3	G			D35
C/2018 C2	2018 05 18.83263	14 50 46.463	+34 16 06.34	16.3	G		t	D35
C/2018 C2	2018 05 19.50662	14 50 23.983	+33 59 55.44	16.4	G			D35
C/2018 C2	2018 05 19.52142	14 50 23.442	+33 59 34.21	16.2	G		t	D35
C/2018 C2	2018 05 19.53249	14 50 23.028	+33 59 18.18	16.4	G			D35
C/2018 C2	2018 05 19.54718	14 50 22.480	+33 58 57.02	16.2	G		t	D35
C/2018 C2	2018 05 19.78889	14 50 13.525	+33 53 02.49	16.7	G			D35
C/2018 C2	2018 05 19.82193	14 50 12.353	+33 52 13.36	16.3	G		t	D35
C/2018 C2	2018 05 20.54370	14 49 48.887	+33 34 27.55	16.1	G		t	D35
C/2018 C2	2018 05 20.65204	14 49 44.941	+33 31 45.92	16.3	G			D35
C/2018 C2	2018 05 20.74403	14 49 41.638	+33 29 27.23	17.2	G			D35
C/2018 C2	2018 05 20.82215	14 49 38.934	+33 27 28.47	16.4	G			D35
C/2018 C2	2018 05 20.82589	14 49 38.808	+33 27 22.81	16.3	G		t	D35
C/2018 C2	2018 05 20.82963	14 49 38.684	+33 27 17.05	16.3	G		t	D35
C/2018 C2	2018 05 21.49620	14 49 17.932	+33 10 29.24	16.2	G			D35
C/2018 C2	2018 05 21.54885	14 49 16.093	+33 09 09.61	16.2	G		t	D35
C/2018 C2	2018 05 21.55313	14 49 15.948	+33 09 03.10	16.2	G		t	D35
C/2018 C2	2018 05 21.59081	14 49 14.624	+33 08 05.68	16.1	G		t	D35
C/2018 C2	2018 05 21.63462	14 49 13.079	+33 06 58.71	17.0	G			D35
C/2018 C2	2018 05 21.67067	14 49 11.815	+33 06 03.38	16.7	G			D35
C/2018 C2	2018 05 21.71960	14 49 10.111	+33 04 47.82	17.2	G			D35
C/2018 C2	2018 05 21.75392	14 49 08.935	+33 03 54.60	16.7	G			D35
C/2018 C2	2018 05 21.79618	14 49 07.514	+33 02 48.87	16.3	G		t	D35
C/2018 C2	2018 05 21.79972	14 49 07.400	+33 02 43.40	16.2	G		t	D35
C/2018 C2	2018 05 21.84667	14 49 06.54	+33 01 30.6	16.2	N	K		A71
C/2018 C2	2018 05 21.85122	14 49 06.39	+33 01 23.7	16.2	N	K		A71
C/2018 C2	2018 05 21.85575	14 49 06.24	+33 01 16.7	16.2	N	K		A71
C/2018 C2	2018 05 21.86028	14 49 06.08	+33 01 09.8	16.2	N	K		A71
C/2018 C2	2018 05 21.86595	14 49 05.89	+33 01 01.0	16.2	N	K		A71
C/2018 C2	2018 05 21.87105	14 49 05.72	+33 00 53.2	16.2	N	K		A71
C/2018 C2	2018 05 22.51166	14 48 45.933	+32 44 22.06	16.1	G		t	D35
C/2018 C2	2018 05 22.51587	14 48 45.789	+32 44 15.65	16.1	G		t	D35
C/2018 C2	2018 05 22.55716	14 48 44.397	+32 43 11.54	15.9	G		t	D35
C/2018 C2	2018 05 22.56229	14 48 44.226	+32 43 03.55	16.4	G			D35
C/2018 C2	2018 05 22.59574	14 48 43.084	+32 42 11.35	16.2	G			D35
C/2018 C2	2018 05 22.63752	14 48 41.663	+32 41 05.99	16.2	G		t	D35
C/2018 C2	2018 05 22.67109	14 48 40.526	+32 40 13.24	16.1	G		t	D35
C/2018 C2	2018 05 22.67462	14 48 40.406	+32 40 07.65	16.1	G		t	D35
C/2018 C2	2018 05 22.67816	14 48 40.286	+32 40 02.13	16.1	G		t	D35
C/2018 C2	2018 05 22.71164	14 48 39.163	+32 39 09.23	16.1	G		t	D35
C/2018 C2	2018 05 22.71576	14 48 39.026	+32 39 02.71	16.1	G		t	D35
C/2018 C2	2018 05 22.75394	14 48 37.768	+32 38 02.26	16.1	G		t	D35
C/2018 C2	2018 05 22.79831	14 48 36.330	+32 36 51.63	16.1	G		t	D35
C/2018 C2	2018 05 23.56138	14 48 14.084	+32 16 45.06	17.2	G			D35
C/2018 C2	2018 05 23.60280	14 48 12.727	+32 15 39.06	17.1	G			D35
C/2018 C2	2018 05 23.64734	14 48 11.265	+32 14 27.74	16.0	G		t	D35
C/2018 C2	2018 05 23.69157	14 48 09.831	+32 13 16.71	16.1	G		t	D35
C/2018 C2	2018 05 23.73576	14 48 08.415	+32 12 05.27	16.0	G			D35
C/2018 C2	2018 05 23.77641	14 48 07.140	+32 10 59.38	16.1	G		t	D35
C/2018 C2	2018 05 23.81578	14 48 05.943	+32 09 55.47	16.1	G		t	D35
C/2018 C2	2018 05 24.55514	14 47 45.383	+31 50 01.80	17.3	G			D35
C/2018 C2	2018 05 24.59276	14 47 44.201	+31 49 00.77	16.8	G			D35
C/2018 C2	2018 05 24.65008	14 47 42.398	+31 47 27.13	16.7	G			D35
C/2018 C2	2018 05 24.65361	14 47 42.288	+31 47 21.34	17.2	G			D35
C/2018 C2	2018 05 24.68291	14 47 41.371	+31 46 33.25	16.3	G			D35
C/2018 C2	2018 05 24.71488	14 47 40.391	+31 45 40.71	16.3	G			D35
C/2018 C2	2018 05 24.75685	14 47 39.119	+31 44 31.36	16.3	G			D35
C/2018 C2	2018 05 24.79311	14 47 38.043	+31 43 31.30	16.1	G		t	D35
C/2018 C2	2018 05 25.49559	14 47 19.577	+31 24 14.52	16.4	G			D35
C/2018 C2	2018 05 25.55835	14 47 17.708	+31 22 30.90	16.7	G			D35
C/2018 C2	2018 05 25.59811	14 47 16.511	+31 21 24.99	17.1	G			D35
C/2018 C2	2018 05 25.68394	14 47 13.938	+31 19 01.66	16.2	G			D35
C/2018 C2	2018 05 25.73867	14 47 12.339	+31 17 29.74	16.2	G		t	D35
C/2018 C2	2018 05 25.90054	14 47 08.47	+31 12 58.1	16.2	N	K		160
C/2018 C2	2018 05 25.90292	14 47 08.40	+31 12 54.1	16.2	N	K		160
C/2018 C2	2018 05 25.90530	14 47 08.31	+31 12 50.2	16.2	N	K		160
C/2018 C2	2018 05 26.57559	14 46 50.88	+30 54 03.1	15.8	T			349
C/2018 C2	2018 05 26.58983	14 46 50.48	+30 53 38.7					349
C/2018 C2	2018 05 26.60405	14 46 50.07	+30 53 14.5					349
C/2018 C2	2018 05 26.73410	14 46 46.510	+30 49 34.37	16.2	G		t	D35
C/2018 C2	2018 05 26.73763	14 46 46.413	+30 49 28.30	16.3	G		t	D35
C/2018 C2	2018 05 26.74117	14 46 46.315	+30 49 22.16	16.3	G		t	D35
C/2018 C2	2018 05 26.78880	14 46 45.035	+30 48 00.44	16.2	G		t	D35

C/2018 C2	2018 05 27.45269	14 46 28.83	+30 29 06.8	16.0	o		T08
C/2018 C2	2018 05 27.46762	14 46 28.43	+30 28 41.0	15.8	o		T08
C/2018 C2	2018 05 27.47268	14 46 28.30	+30 28 32.3	15.9	o		T08
C/2018 C2	2018 05 27.47988	14 46 28.800	+30 28 19.20	16.3	G		D35
C/2018 C2	2018 05 27.58384	14 46 25.996	+30 25 21.03	16.3	G		D35
C/2018 C2	2018 05 27.65873	14 46 23.954	+30 23 11.58	16.2	G	t	D35
C/2018 C2	2018 05 27.72076	14 46 22.304	+30 21 23.74	16.3	G	t	D35
C/2018 C2	2018 05 27.76818	14 46 21.078	+30 20 00.92	16.3	G	t	D35
C/2018 C2	2018 05 27.77230	14 46 20.975	+30 19 53.65	16.3	G	t	D35
C/2018 C2	2018 05 27.920014	14 46 17.98	+30 15 35.9	15.9			Z43
C/2018 C2	2018 05 27.922900	14 46 17.91	+30 15 30.9	15.6			Z43
C/2018 C2	2018 05 27.926539	14 46 17.82	+30 15 24.9	15.3			Z43
C/2018 C2	2018 05 27.930240	14 46 17.76	+30 15 19.1	15.9			Z43
C/2018 C2	2018 05 27.933309	14 46 17.68	+30 15 13.4	16.1			Z43
C/2018 C2	2018 05 27.937129	14 46 17.53	+30 15 06.5	15.8			Z43
C/2018 C2	2018 05 28.96381	14 45 53.90	+29 45 09.5	15.9	N		585
C/2018 C2	2018 05 28.96451	14 45 53.88	+29 45 08.2	15.8	N		585
C/2018 C2	2018 05 28.96522	14 45 53.86	+29 45 06.5	15.7	N		585
C/2018 C2	2018 05 28.96593	14 45 53.85	+29 45 05.6	15.8	N		585
C/2018 C2	2018 05 28.96664	14 45 53.83	+29 45 04.4	15.9	N		585
C/2018 C2	2018 05 28.96735	14 45 53.82	+29 45 03.2	15.7	N		585
C/2018 C2	2018 05 28.96806	14 45 53.80	+29 45 02.1	15.8	N		585
C/2018 C2	2018 05 28.96877	14 45 53.79	+29 45 00.6	15.7	N		585
C/2018 C2	2018 05 29.05944	14 45 51.70	+29 42 23.2	16.0	N		17G40
C/2018 C2	2018 05 29.06261	14 45 51.61	+29 42 17.6	16.0	N		17G40
C/2018 C2	2018 05 29.12872	14 45 50.06	+29 40 19.9	16.0	N		17G40
C/2018 C2	2018 05 29.13205	14 45 49.93	+29 40 13.9	15.9	N		17G40
C/2018 C2	2018 05 30.71299	14 45 17.521	+28 53 01.42	16.5	G		D35
C/2018 C2	2018 05 30.78482	14 45 16.018	+28 50 49.98	16.1	G	t	D35
C/2018 C2	2018 05 30.89020	14 45 14.45	+28 47 37.5	16.0	N	K	A71
C/2018 C2	2018 05 30.89249	14 45 14.39	+28 47 33.3	16.0	N	K	A71
C/2018 C2	2018 05 30.89479	14 45 14.35	+28 47 29.2	16.1	N	K	A71
C/2018 C2	2018 05 30.89708	14 45 14.30	+28 47 24.9	16.1	N	K	A71
C/2018 C2	2018 05 30.89936	14 45 14.25	+28 47 20.7	16.1	N	K	A71
C/2018 C2	2018 05 30.94926	14 45 13.12	+28 45 49.6	15.8	N		585
C/2018 C2	2018 05 30.95210	14 45 13.06	+28 45 44.3	15.8	N		585
C/2018 C2	2018 05 30.95280	14 45 13.03	+28 45 43.1	15.8	N		585
C/2018 C2	2018 05 30.95353	14 45 13.03	+28 45 41.7	15.8	N		585
C/2018 C2	2018 05 30.95424	14 45 13.01	+28 45 39.9	15.9	N		585
C/2018 C2	2018 05 30.95495	14 45 12.98	+28 45 39.2	16.0	N		585
C/2018 C2	2018 05 30.95568	14 45 12.98	+28 45 38.0	15.9	N		585
C/2018 C2	2018 05 30.95639	14 45 12.97	+28 45 36.6	16.0	N		585
C/2018 C2	2018 05 30.95710	14 45 12.96	+28 45 35.3	15.7	N		585
C/2018 C2	2018 05 30.95781	14 45 12.94	+28 45 33.9	15.9	N		585
C/2018 C2	2018 05 30.95852	14 45 12.93	+28 45 32.5	15.7	N		585
C/2018 C2	2018 05 30.95922	14 45 12.91	+28 45 31.5	15.8	N		585
C/2018 C2	2018 05 30.95994	14 45 12.88	+28 45 29.9	15.9	N		585
C/2018 C2	2018 05 30.96064	14 45 12.87	+28 45 28.7	15.8	N		585
C/2018 C2	2018 05 30.96135	14 45 12.88	+28 45 27.4	16.0	N		585
C/2018 C2	2018 05 31.40899	14 45 04.56	+28 31 53.7	16.0	o		T08
C/2018 C2	2018 05 31.42103	14 45 04.32	+28 31 31.6	15.7	o		T08
C/2018 C2	2018 05 31.43276	14 45 04.05	+28 31 09.9	15.8	o		T08
C/2018 C2	2018 05 31.44426	14 45 03.82	+28 30 48.8	15.7	o		T08
C/2018 C2	2018 05 31.82412	14 44 57.42	+28 19 07.2	16.3	V		L01
C/2018 C2	2018 05 31.82471	14 44 57.40	+28 19 06.3	16.3	V		L01
C/2018 C2	2018 05 31.82529	14 44 57.39	+28 19 05.3	16.3	V		L01
C/2018 C2	2018 05 31.82588	14 44 57.38	+28 19 04.1	16.3	V		L01
C/2018 C2	2018 05 31.82647	14 44 57.37	+28 19 03.0	16.2	V		L01
C/2018 C2	2018 05 31.82705	14 44 57.35	+28 19 01.9	16.2	V		L01
C/2018 C2	2018 05 31.82764	14 44 57.34	+28 19 00.8	16.3	V		L01
C/2018 C2	2018 05 31.82853	14 44 57.33	+28 18 59.2	16.2	V		L01
C/2018 C2	2018 05 31.84318	14 44 57.10	+28 18 32.7	15.8	V	K	K32
C/2018 C2	2018 05 31.84811	14 44 57.00	+28 18 23.5	15.7	V	K	K32
C/2018 C2	2018 05 31.85305	14 44 56.88	+28 18 14.6	15.7	V	K	K32
C/2018 C2	2018 05 31.85797	14 44 56.78	+28 18 05.6	15.7	V	K	K32
C/2018 C2	2018 05 31.86290	14 44 56.70	+28 17 56.4	15.8	V	K	K32
C/2018 C2	2018 05 31.86435	14 44 56.65	+28 17 53.5	16.1	V		C77
C/2018 C2	2018 05 31.86727	14 44 56.58	+28 17 48.0	16.0	V		C77
C/2018 C2	2018 05 31.86783	14 44 56.59	+28 17 47.4	15.8	V	K	K32
C/2018 C2	2018 05 31.86838	14 44 56.52	+28 17 45.9	16.3	V		L01
C/2018 C2	2018 05 31.87334	14 44 56.43	+28 17 36.7	16.3	V		L01
C/2018 C2	2018 05 31.87351	14 44 56.47	+28 17 36.5	16.0	V		C77
C/2018 C2	2018 05 31.87587	14 44 56.38	+28 17 32.1	16.3	V		L01
C/2018 C2	2018 05 31.87705	14 44 56.34	+28 17 29.9	16.3	V		L01
C/2018 C2	2018 05 31.89458	14 44 56.24	+28 16 59.4	15.8	T	9	G40
C/2018 C2	2018 05 31.89487	14 44 56.04	+28 16 57.5	16.2	R	K	K38
C/2018 C2	2018 05 31.90084	14 44 56.11	+28 16 47.9	15.8	T	9	G40
C/2018 C2	2018 05 31.90138	14 44 55.90	+28 16 45.3	16.2	R	K	K38
C/2018 C2	2018 05 31.90598	14 44 56.01	+28 16 38.4	15.8	T	9	G40
C/2018 C2	2018 05 31.90788	14 44 55.76	+28 16 33.1	15.7	R	K	K38
C/2018 C2	2018 05 31.91438	14 44 55.64	+28 16 21.4	16.3	R	K	K38
C/2018 C2	2018 05 31.94353	14 44 54.96	+28 15 26.4	15.8	N		585
C/2018 C2	2018 05 31.94424	14 44 54.95	+28 15 25.1	15.8	N		585
C/2018 C2	2018 05 31.94494	14 44 54.94	+28 15 23.9	15.7	N		585
C/2018 C2	2018 05 31.94565	14 44 54.92	+28 15 22.6	15.9	N		585
C/2018 C2	2018 05 31.94636	14 44 54.90	+28 15 21.4	15.7	N		585
C/2018 C2	2018 05 31.94707	14 44 54.85	+28 15 20.3	15.8	N		585
C/2018 C2	2018 05 31.94778	14 44 54.88	+28 15 18.5	15.7	N		585
C/2018 C2	2018 05 31.94848	14 44 54.86	+28 15 17.3	15.7	N		585
C/2018 C2	2018 05 31.94919	14 44 54.85	+28 15 15.9	15.9	N		585
C/2018 C2	2018 05 31.94990	14 44 54.84	+28 15 14.6	15.8	N		585
C/2018 C2	2018 05 31.95063	14 44 54.80	+28 15 13.7	15.7	N		585
C/2018 C2	2018 05 31.95133	14 44 54.81	+28 15 12.0	15.7	N		585
C/2018 C2	2018 05 31.95204	14 44 54.79	+28 15 10.6	15.8	N		585
C/2018 C2	2018 05 31.95275	14 44 54.72	+28 15 09.3	15.8	N		585
C/2018 C2	2018 05 31.95346	14 44 54.73	+28 15 08.5	15.7	N		585
C/2018 C2	2018 06 01.04378	14 44 53.08	+28 12 23.6	15.8	N		17G40
C/2018 C2	2018 06 01.08533	14 44 52.26	+28 11 06.5	15.8	N		17G40
C/2018 C2	2018 06 01.09206	14 44 52.15	+28 10 54.0	15.9	N		17G40
C/2018 C2	2018 06 01.62741	14 44 43.32	+27 54 19.5			K	D81
C/2018 C2	2018 06 01.62894	14 44 43.27	+27 54 16.9			K	D81
C/2018 C2	2018 06 01.63046	14 44 43.24	+27 54 13.7			K	D81
C/2018 C2	2018 06 01.63199	14 44 43.20	+27 54 10.5	15.8	T	K	D81
C/2018 C2	2018 06 01.65879	14 44 42.75	+27 53 20.6				900
C/2018 C2	2018 06 01.66592	14 44 42.61	+27 53 07.2	16.0	T		900
C/2018 C2	2018 06 01.93053	14 44 38.55	+27 44 52.2	15.9	N	K	160

C/2018 C2	2018 06 01.93429	14 44 38.48	+27 44 45.1	15.9	N	K 160	
C/2018 C2	2018 06 01.93805	14 44 38.41	+27 44 38.0	15.9	N	K 160	
C/2018 C2	2018 06 02.983525	14 44 22.60	+27 11 46.5	15.7	G	K J69	
C/2018 C2	2018 06 02.990722	14 44 22.48	+27 11 32.8	15.8	G	K J69	
C/2018 C2	2018 06 03.28196	14 44 18.38	+27 02 21.7	15.5	G	703	
C/2018 C2	2018 06 03.28723	14 44 18.30	+27 02 11.5	15.5	G	703	
C/2018 C2	2018 06 03.29251	14 44 18.21	+27 02 01.5	15.5	G	703	
C/2018 C2	2018 06 03.29780	14 44 18.14	+27 01 51.2	15.5	G	703	
C/2018 C2	2018 06 03.63690	14 44 13.574	+26 51 05.00	16.0	G	t D35	
C/2018 C2	2018 06 03.74809	14 44 11.853	+26 47 30.91	16.3	G	D35	
C/2018 C2	2018 06 03.91650	14 44 10.13	+26 42 06.4	15.4	R	B96	
C/2018 C2	2018 06 03.91815	14 44 10.10	+26 42 03.4	15.4	R	B96	
C/2018 C2	2018 06 03.91979	14 44 10.08	+26 42 00.2	15.3	R	B96	
C/2018 C2	2018 06 03.92142	14 44 10.04	+26 41 57.1	15.4	R	B96	
C/2018 C2	2018 06 03.92307	14 44 10.03	+26 41 53.9	15.4	R	B96	
C/2018 C2	2018 06 04.42111	14 44 03.65	+26 25 58.3	15.7	o	T08	
C/2018 C2	2018 06 04.43234	14 44 03.47	+26 25 36.2	15.8	o	T08	
C/2018 C2	2018 06 04.44388	14 44 03.31	+26 25 14.0	15.7	o	T08	
C/2018 C2	2018 06 04.45547	14 44 03.15	+26 24 51.6	15.7	o	T08	
C/2018 C2	2018 06 04.89757	14 43 58.41	+26 10 32.7	15.4	R	B96	
C/2018 C2	2018 06 04.89920	14 43 58.40	+26 10 29.4	15.4	R	B96	
C/2018 C2	2018 06 04.90083	14 43 58.38	+26 10 26.2	15.4	R	B96	
C/2018 C2	2018 06 04.94898	14 43 57.69	+26 08 52.4	15.4	N	C23	
C/2018 C2	2018 06 04.95347	14 43 57.64	+26 08 43.8	15.5	N	C23	
C/2018 C2	2018 06 04.95721	14 43 57.58	+26 08 36.3	15.6	N	C23	
C/2018 C2	2018 06 04.97998	14 43 57.19	+26 07 51.6	15.6	N	585	
C/2018 C2	2018 06 04.98068	14 43 57.18	+26 07 50.2	15.8	N	585	
C/2018 C2	2018 06 04.98146	14 43 57.16	+26 07 48.7	15.7	N	585	
C/2018 C2	2018 06 04.98217	14 43 57.16	+26 07 47.4	15.6	N	585	
C/2018 C2	2018 06 04.98288	14 43 57.14	+26 07 45.8	15.7	N	585	
C/2018 C2	2018 06 04.98358	14 43 57.14	+26 07 44.6	15.8	N	585	
C/2018 C2	2018 06 04.98429	14 43 57.13	+26 07 43.1	15.7	N	585	
C/2018 C2	2018 06 04.98500	14 43 57.12	+26 07 41.9	15.8	N	585	
C/2018 C2	2018 06 04.98571	14 43 57.11	+26 07 40.3	15.7	N	585	
C/2018 C2	2018 06 05.89504	14 43 48.07	+25 38 06.1	15.7	N	213	
C/2018 C2	2018 06 05.89883	14 43 48.02	+25 37 58.9	15.8	N	213	
C/2018 C2	2018 06 05.90427	14 43 47.96	+25 37 48.5	15.8	N	213	
C/2018 C2	2018 06 05.92954	14 43 47.69	+25 36 57.4	15.5	R	B96	
C/2018 C2	2018 06 05.93117	14 43 47.67	+25 36 54.3	15.5	R	B96	
C/2018 C2	2018 06 05.93280	14 43 47.67	+25 36 51.1	15.5	R	B96	
C/2018 C2	2018 06 05.93443	14 43 47.63	+25 36 47.8	15.5	R	B96	
C/2018 C2	2018 06 05.93608	14 43 47.60	+25 36 44.6	15.4	R	B96	
C/2018 C2	2018 06 05.93771	14 43 47.59	+25 36 41.4	15.4	R	B96	
C/2018 C2	2018 06 06.42170	14 43 43.02	+25 20 51.8	15.7	o	T05	
C/2018 C2	2018 06 06.43333	14 43 42.89	+25 20 28.8	15.7	o	T05	
C/2018 C2	2018 06 06.44493	14 43 42.76	+25 20 05.8	15.7	o	T05	
C/2018 C2	2018 06 06.45639	14 43 42.63	+25 19 42.9	15.8	o	T05	
C/2018 C2	2018 06 06.97654	14 43 38.63	+25 02 32.9	15.6	N	Z39	
C/2018 C2	2018 06 06.99228	14 43 38.45	+25 02 01.6	15.6	N	Z39	
C/2018 C2	2018 06 07.00303	14 43 38.34	+25 01 40.2	15.6	N	Z39	
C/2018 C2	2018 06 07.28764	14 43 36.19	+24 52 13.9	15.4	G	703	
C/2018 C2	2018 06 07.29287	14 43 36.14	+24 52 03.5	15.5	G	703	
C/2018 C2	2018 06 07.29810	14 43 36.09	+24 51 53.0	15.5	G	703	
C/2018 C2	2018 06 07.30333	14 43 36.04	+24 51 42.6	15.5	G	703	
C/2018 C2	2018 06 07.51109	14 43 34.989	+24 44 49.88	16.2	G	D35	
C/2018 C2	2018 06 07.52529	14 43 34.75	+24 44 20.2			K 367	
C/2018 C2	2018 06 07.52691	14 43 34.74	+24 44 17.0			K 367	
C/2018 C2	2018 06 07.52812	14 43 34.73	+24 44 14.6	15.5	T	K 367	
C/2018 C2	2018 06 07.55675	14 43 34.540	+24 43 18.94	16.2	G	D35	
C/2018 C2	2018 06 07.60242	14 43 34.095	+24 41 47.70	16.1	G	D35	
C/2018 C2	2018 06 07.63093	14 43 33.68	+24 40 49.4			K Q23	
C/2018 C2	2018 06 07.64061	14 43 33.62	+24 40 29.8			K Q23	
C/2018 C2	2018 06 07.64549	14 43 33.55	+24 40 20.4	15.5	T	K Q23	
C/2018 C2	2018 06 07.64624	14 43 33.677	+24 40 19.77	16.1	G	D35	
C/2018 C2	2018 06 07.68233	14 43 33.349	+24 39 07.28	16.9	G	D35	
C/2018 C2	2018 06 07.72940	14 43 32.945	+24 37 32.65	16.2	G	D35	
C/2018 C2	2018 06 08.27189	14 43 29.94	+24 19 25.3	15.7	G	G96	
C/2018 C2	2018 06 08.27717	14 43 29.89	+24 19 14.7	15.6	G	G96	
C/2018 C2	2018 06 08.28356	14 43 29.85	+24 19 01.9	15.6	G	G96	
C/2018 C2	2018 06 08.28884	14 43 29.80	+24 18 51.2	15.6	G	G96	
C/2018 C2	2018 06 08.42593	14 43 28.98	+24 14 17.1	15.8	o	T08	
C/2018 C2	2018 06 08.43686	14 43 28.92	+24 13 55.1	15.9	o	T08	
C/2018 C2	2018 06 08.44809	14 43 28.82	+24 13 32.2	15.7	o	T08	
C/2018 C2	2018 06 08.60619	14 43 28.212	+24 08 14.08	16.2	G	D35	
C/2018 C2	2018 06 08.65538	14 43 27.833	+24 06 34.45	16.4	G	D35	
C/2018 C2	2018 06 08.70102	14 43 27.505	+24 05 01.95	16.4	G	D35	
C/2018 C2	2018 06 09.28914	14 43 25.11	+23 45 12.1	15.6	G	G96	
C/2018 C2	2018 06 09.29440	14 43 25.08	+23 45 01.4	15.6	G	G96	
C/2018 C2	2018 06 09.29444	14 43 25.09	+23 45 01.5	15.0	G	703	
C/2018 C2	2018 06 09.29965	14 43 25.04	+23 44 50.7	15.6	G	G96	
C/2018 C2	2018 06 09.29972	14 43 25.04	+23 44 50.7	15.5	G	703	
C/2018 C2	2018 06 09.30490	14 43 25.01	+23 44 39.8	15.6	G	G96	
C/2018 C2	2018 06 09.30500	14 43 25.01	+23 44 39.9	15.5	G	703	
C/2018 C2	2018 06 09.31028	14 43 24.95	+23 44 29.1	15.4	G	703	
C/2018 C2	2018 06 09.90441	14 43 23.25	+23 24 19.6	15.7	R	B96	
C/2018 C2	2018 06 09.90604	14 43 23.23	+23 24 16.4	15.7	R	B96	
C/2018 C2	2018 06 09.90767	14 43 23.23	+23 24 13.2	15.7	R	B96	
C/2018 C2	2018 06 09.90932	14 43 23.23	+23 24 09.7	15.6	R	B96	
C/2018 C2	2018 06 09.91095	14 43 23.21	+23 24 06.6	15.7	R	B96	
C/2018 C2	2018 06 09.94462	14 43 23.06	+23 22 59.3	15.7	N	Z55	
C/2018 C2	2018 06 09.94666	14 43 23.06	+23 22 55.2	15.7	N	Z55	
C/2018 C2	2018 06 09.94793	14 43 23.10	+23 22 52.5	15.7	N	Z55	
C/2018 C2	2018 06 09.94890	14 43 23.07	+23 22 50.6	15.6	N	Z55	
C/2018 C2	2018 06 09.98288	14 43 22.93	+23 21 42.3	15.6	N	Z39	
C/2018 C2	2018 06 10.00127	14 43 22.78	+23 21 02.6	15.7	N	K L27	
C/2018 C2	2018 06 10.00206	14 43 22.83	+23 21 03.1	15.6	N	Z39	
C/2018 C2	2018 06 10.02079	14 43 22.69	+23 20 22.8	15.7	N	K L27	
C/2018 C2	2018 06 10.02491	14 43 22.72	+23 20 16.4	15.6	N	Z39	
C/2018 C2	2018 06 10.04103	14 43 22.60	+23 19 41.4	15.7	N	K L27	
C/2018 C2	2018 06 10.42214	14 43 21.80	+23 06 46.0	16.1	c	T05	
C/2018 C2	2018 06 10.43395	14 43 21.74	+23 06 21.7	16.1	c	T05	
C/2018 C2	2018 06 10.44539	14 43 21.68	+23 05 58.1	16.0	c	T05	
C/2018 C2	2018 06 10.45681	14 43 21.64	+23 05 34.6	16.0	c	T05	
C/2018 C2	2018 06 10.88711	14 43 21.29	+22 50 51.3	16.1	N	K A71	
C/2018 C2	2018 06 10.89192	14 43 21.28	+22 50 41.2	16.0	N	K A71	
C/2018 C2	2018 06 10.89674	14 43 21.27	+22 50 31.6	16.0	N	K A71	

C/2018 C2	2018 06 10.90156	14 43 21.24	+22 50 21.6	16.1	N	K A71
C/2018 C2	2018 06 10.90638	14 43 21.24	+22 50 11.5	16.2	N	K A71
C/2018 C2	2018 06 10.92399	14 43 21.12	+22 49 34.1	15.5	N	585
C/2018 C2	2018 06 10.92470	14 43 21.12	+22 49 32.7	15.5	N	585
C/2018 C2	2018 06 10.92541	14 43 21.12	+22 49 31.1	15.6	N	585
C/2018 C2	2018 06 10.92611	14 43 21.12	+22 49 29.7	15.6	N	585
C/2018 C2	2018 06 10.92682	14 43 21.11	+22 49 28.1	15.5	N	585
C/2018 C2	2018 06 10.92753	14 43 21.11	+22 49 26.6	15.6	N	585
C/2018 C2	2018 06 10.92824	14 43 21.11	+22 49 25.3	15.5	N	585
C/2018 C2	2018 06 10.92895	14 43 21.11	+22 49 23.7	15.3	N	585
C/2018 C2	2018 06 10.92965	14 43 21.11	+22 49 22.3	15.3	N	585
C/2018 C2	2018 06 10.93036	14 43 21.10	+22 49 20.8	15.4	N	585
C/2018 C2	2018 06 10.93108	14 43 21.09	+22 49 19.4	15.4	N	585
C/2018 C2	2018 06 10.93178	14 43 21.09	+22 49 17.9	15.4	N	585
C/2018 C2	2018 06 10.93249	14 43 21.08	+22 49 16.7	15.3	N	585
C/2018 C2	2018 06 10.93319	14 43 21.09	+22 49 15.1	15.3	N	585
C/2018 C2	2018 06 10.93390	14 43 21.09	+22 49 13.7	15.3	N	585
C/2018 C2	2018 06 10.93532	14 43 21.09	+22 49 10.6	15.4	N	585
C/2018 C2	2018 06 10.93603	14 43 21.09	+22 49 09.1	15.4	N	585
C/2018 C2	2018 06 10.93674	14 43 21.09	+22 49 07.8	15.5	N	585
C/2018 C2	2018 06 10.93745	14 43 21.09	+22 49 06.2	15.5	N	585
C/2018 C2	2018 06 10.96846	14 43 21.18	+22 48 05.2	15.7	N	Z39
C/2018 C2	2018 06 10.98652	14 43 21.11	+22 47 28.2	15.7	N	Z39
C/2018 C2	2018 06 11.00568	14 43 21.05	+22 46 48.6	15.7	N	Z39
C/2018 C2	2018 06 11.90582	14 43 21.05	+22 15 51.4	15.6	N	B74
C/2018 C2	2018 06 11.91136	14 43 21.04	+22 15 39.9	15.6	N	B74
C/2018 C2	2018 06 11.91800	14 43 21.03	+22 15 26.3	15.6	N	B74
C/2018 C2	2018 06 12.39972	14 43 21.40	+21 58 50.7	15.7	o	T08
C/2018 C2	2018 06 12.40572	14 43 21.38	+21 58 38.1	15.7	o	T08
C/2018 C2	2018 06 12.41104	14 43 21.37	+21 58 27.0	15.6	o	T08
C/2018 C2	2018 06 12.42238	14 43 21.37	+21 58 03.4	15.8	o	T08
C/2018 C2	2018 06 12.43330	14 43 21.36	+21 57 40.6	15.7	o	T08
C/2018 C2	2018 06 12.49601	14 43 21.82	+21 55 29.3	15.1	T	372
C/2018 C2	2018 06 12.51236	14 43 21.79	+21 54 55.3			Q11
C/2018 C2	2018 06 12.51877	14 43 21.78	+21 54 42.0			Q11
C/2018 C2	2018 06 12.52257	14 43 21.79	+21 54 34.5			372
C/2018 C2	2018 06 12.52522	14 43 21.77	+21 54 28.6	15.5	T	Q11
C/2018 C2	2018 06 12.96947	14 43 22.59	+21 39 03.6	15.6	N	J01
C/2018 C2	2018 06 12.97826	14 43 22.59	+21 38 45.2	15.6	N	J01
C/2018 C2	2018 06 12.98485	14 43 22.60	+21 38 31.3	15.6	N	J01
C/2018 C2	2018 06 13.25429	14 43 23.34	+21 29 10.9	15.4	G	703
C/2018 C2	2018 06 13.25954	14 43 23.35	+21 28 59.8	15.2	G	703
C/2018 C2	2018 06 13.26478	14 43 23.35	+21 28 49.0	15.4	G	703
C/2018 C2	2018 06 13.27003	14 43 23.35	+21 28 37.8	15.3	G	703
C/2018 C2	2018 06 13.44377	14 43 23.76	+21 22 36.3	15.7	o	T05
C/2018 C2	2018 06 13.45288	14 43 23.77	+21 22 17.1	15.7	o	T05
C/2018 C2	2018 06 13.46227	14 43 23.79	+21 21 57.6	15.8	o	T05
C/2018 C2	2018 06 13.47258	14 43 23.80	+21 21 35.8	15.7	o	T05
C/2018 C2	2018 06 13.61215	14 43 24.44	+21 16 43.6	15.2	T	372
C/2018 C2	2018 06 13.61788	14 43 24.45	+21 16 31.6			372
C/2018 C2	2018 06 13.94336	14 43 25.80	+21 05 08.6	15.6	N	C23
C/2018 C2	2018 06 13.94785	14 43 25.82	+21 04 59.1	15.7	N	C23
C/2018 C2	2018 06 13.95234	14 43 25.82	+21 04 49.5	15.6	N	C23
C/2018 C2	2018 06 14.90498	14 43 30.62	+20 31 29.1	16.3	G	K K38
C/2018 C2	2018 06 14.91261	14 43 30.64	+20 31 13.1	16.2	G	K K38
C/2018 C2	2018 06 14.92024	14 43 30.67	+20 30 57.0	16.2	G	K K38
C/2018 C2	2018 06 14.92787	14 43 30.70	+20 30 40.9	16.3	G	K K38
C/2018 C2	2018 06 14.93550	14 43 30.73	+20 30 24.8	16.2	G	K K38
C/2018 C2	2018 06 14.94656	14 43 30.77	+20 30 01.4	16.2	G	K K38
C/2018 C2	2018 06 15.18972	14 43 32.48	+20 21 29.9	15.78r		I41
C/2018 C2	2018 06 15.23249	14 43 32.64	+20 19 59.8	16.37g		I41
C/2018 C2	2018 06 15.89670	14 43 37.24	+19 56 36.0	15.6	N	L27
C/2018 C2	2018 06 15.89810	14 43 37.24	+19 56 32.5	15.9	N	K97
C/2018 C2	2018 06 15.90228	14 43 37.23	+19 56 24.2	16.4	N	K 160
C/2018 C2	2018 06 15.90496	14 43 37.24	+19 56 18.5	16.4	N	K 160
C/2018 C2	2018 06 15.90764	14 43 37.25	+19 56 13.2	16.3	N	K 160
C/2018 C2	2018 06 15.91529	14 43 37.34	+19 55 56.0	16.1	N	K97
C/2018 C2	2018 06 15.91767	14 43 37.35	+19 55 51.6	15.6	N	L27
C/2018 C2	2018 06 15.92801	14 43 37.41	+19 55 29.2	16.0	N	K97
C/2018 C2	2018 06 15.93935	14 43 37.47	+19 55 05.7	15.6	N	L27
C/2018 C2	2018 06 16.38967	14 43 40.99	+19 39 14.5	15.8	o	T08
C/2018 C2	2018 06 16.40088	14 43 41.05	+19 38 50.7	15.7	o	T08
C/2018 C2	2018 06 16.41219	14 43 41.12	+19 38 26.5	15.8	o	T08
C/2018 C2	2018 06 16.42315	14 43 41.19	+19 38 03.4	15.8	o	T08
C/2018 C2	2018 06 16.51325	14 43 42.25	+19 34 50.7			K 367
C/2018 C2	2018 06 16.51447	14 43 42.26	+19 34 48.2			K 367
C/2018 C2	2018 06 16.51609	14 43 42.28	+19 34 44.8	15.7	T	K 367
C/2018 C2	2018 06 16.92677	14 43 45.82	+19 20 11.1	15.7	N	C23
C/2018 C2	2018 06 16.93126	14 43 45.86	+19 20 01.6	15.5	N	C23
C/2018 C2	2018 06 16.93576	14 43 45.89	+19 19 52.1	15.6	N	C23
C/2018 C2	2018 06 17.90794	14 43 55.77	+18 45 23.0	15.6	N	L27
C/2018 C2	2018 06 17.93252	14 43 55.97	+18 44 30.4	15.8	N	L27
C/2018 C2	2018 06 17.95784	14 43 56.22	+18 43 36.4	15.6	N	L27
C/2018 C2	2018 06 18.90887	14 44 07.54	+18 09 44.6	15.7	N	K 160
C/2018 C2	2018 06 18.91163	14 44 07.57	+18 09 38.7	15.7	N	K 160
C/2018 C2	2018 06 18.91427	14 44 07.59	+18 09 33.0	15.8	N	K 160
C/2018 C2	2018 06 18.91832	14 44 07.71	+18 09 24.0	15.8	R	B96
C/2018 C2	2018 06 18.91995	14 44 07.73	+18 09 20.3	15.8	R	B96
C/2018 C2	2018 06 18.92159	14 44 07.74	+18 09 17.1	15.8	R	B96
C/2018 C2	2018 06 18.92209	14 44 07.82	+18 09 18.2	15.7	N	Z39
C/2018 C2	2018 06 18.92323	14 44 07.76	+18 09 13.1	15.7	R	B96
C/2018 C2	2018 06 18.92486	14 44 07.78	+18 09 09.9	15.7	R	B96
C/2018 C2	2018 06 18.93189	14 44 07.92	+18 08 57.2	15.6	N	Z39
C/2018 C2	2018 06 18.94167	14 44 08.01	+18 08 36.4	15.7	N	Z39
C/2018 C2	2018 06 18.94436	14 44 07.98	+18 08 28.2	15.6	N	C23
C/2018 C2	2018 06 18.94736	14 44 08.01	+18 08 21.7	15.6	N	C23
C/2018 C2	2018 06 18.95035	14 44 08.05	+18 08 15.2	15.7	N	C23
C/2018 C2	2018 06 19.93525	14 44 21.51	+17 33 04.6	16.0	N	K B50
C/2018 C2	2018 06 19.94817	14 44 21.46	+17 32 39.9	16.0	N	K B50
C/2018 C2	2018 06 19.94865	14 44 21.60	+17 32 36.8	15.6	N	B54
C/2018 C2	2018 06 19.94955	14 44 21.62	+17 32 35.3	15.6	N	B54
C/2018 C2	2018 06 19.94969	14 44 21.62	+17 32 34.9	15.6	N	B54
C/2018 C2	2018 06 20.37541	14 44 27.87	+17 17 23.7	15.8	o	T08
C/2018 C2	2018 06 20.38646	14 44 28.01	+17 16 59.7	15.8	o	T08
C/2018 C2	2018 06 20.38744	14 44 28.02	+17 16 57.7	15.8	o	T08
C/2018 C2	2018 06 20.39787	14 44 28.15	+17 16 35.2	15.8	o	T08

C/2018 C2	2018 06 20.39833	14 44 28.16	+17 16 34.2	15.8	o	T08
C/2018 C2	2018 06 20.40891	14 44 28.29	+17 16 11.5	15.8	o	T08
C/2018 C2	2018 06 20.40983	14 44 28.30	+17 16 09.6	15.8	o	T08
C/2018 C2	2018 06 20.42100	14 44 28.44	+17 15 45.4	15.8	o	T08
C/2018 C2	2018 06 20.87572	14 44 35.78	+16 59 26.6	16.8	N	K 160
C/2018 C2	2018 06 20.87803	14 44 35.81	+16 59 21.5	16.9	N	K 160
C/2018 C2	2018 06 20.88035	14 44 35.82	+16 59 16.0	16.0	N	K 160
C/2018 C2	2018 06 20.92167	14 44 36.51	+16 57 47.1	15.7	R	B96
C/2018 C2	2018 06 20.92494	14 44 36.53	+16 57 39.8	15.7	R	B96
C/2018 C2	2018 06 20.92821	14 44 36.59	+16 57 32.7	15.7	R	B96
C/2018 C2	2018 06 21.86875	14 44 52.56	+16 23 50.3	16.0	N	J27
C/2018 C2	2018 06 21.87626	14 44 52.67	+16 23 34.2	16.1	N	J27
C/2018 C2	2018 06 21.88223	14 44 52.76	+16 23 21.4	16.1	N	J27
C/2018 C2	2018 06 21.93659	14 44 53.59	+16 21 23.0	15.8	R	B96
C/2018 C2	2018 06 21.93822	14 44 53.62	+16 21 19.4	15.7	R	B96
C/2018 C2	2018 06 21.93985	14 44 53.65	+16 21 15.9	15.7	R	B96
C/2018 C2	2018 06 21.94148	14 44 53.67	+16 21 12.4	15.6	R	B96
C/2018 C2	2018 06 21.94312	14 44 53.72	+16 21 08.9	15.6	R	B96
C/2018 C2	2018 06 21.94476	14 44 53.74	+16 21 05.7	15.6	R	B96
C/2018 C2	2018 06 22.39386	14 45 01.77	+16 05 01.5	15.7	o	T05
C/2018 C2	2018 06 22.40474	14 45 01.95	+16 04 38.0	15.7	o	T05
C/2018 C2	2018 06 22.41597	14 45 02.13	+16 04 13.7	15.9	o	T05
C/2018 C2	2018 06 22.42699	14 45 02.31	+16 03 49.9	15.7	o	T05
C/2018 C2	2018 06 22.90642	14 45 11.66	+15 46 35.0	15.7	N	Z50
C/2018 C2	2018 06 22.90852	14 45 11.70	+15 46 30.4	15.7	N	Z50
C/2018 C2	2018 06 22.91649	14 45 11.84	+15 46 13.2	15.7	N	Z50
C/2018 C2	2018 06 22.96063	14 45 12.59	+15 44 38.6	15.6	N	Z55
C/2018 C2	2018 06 22.96189	14 45 12.62	+15 44 35.7	15.8	N	Z55
C/2018 C2	2018 06 22.96323	14 45 12.66	+15 44 33.3	15.7	N	Z55
C/2018 C2	2018 06 22.96419	14 45 12.66	+15 44 30.8	15.7	N	Z55
C/2018 C2	2018 06 24.38407	14 45 41.84	+14 53 31.0	15.8	o	T08
C/2018 C2	2018 06 24.39517	14 45 42.05	+14 53 07.0	15.8	o	T08
C/2018 C2	2018 06 24.40650	14 45 42.28	+14 52 42.5	15.7	o	T08
C/2018 C2	2018 06 24.41775	14 45 42.50	+14 52 18.2	15.8	o	T08
C/2018 C2	2018 06 24.94174	14 45 54.28	+14 33 25.6	15.7	N	B74
C/2018 C2	2018 06 24.94612	14 45 54.39	+14 33 16.2	15.7	N	B74
C/2018 C2	2018 06 24.95098	14 45 54.48	+14 33 05.7	15.8	N	B74
C/2018 C2	2018 06 25.93752	14 46 17.64	+13 57 37.5	15.7	N	C23
C/2018 C2	2018 06 25.94276	14 46 17.76	+13 57 25.9	15.7	N	C23
C/2018 C2	2018 06 25.94661	14 46 17.87	+13 57 17.7	15.8	R	B96
C/2018 C2	2018 06 25.94726	14 46 17.86	+13 57 16.7	15.8	N	C23
C/2018 C2	2018 06 25.94824	14 46 17.90	+13 57 14.2	15.7	R	B96
C/2018 C2	2018 06 25.94987	14 46 17.95	+13 57 10.7	15.7	R	B96
C/2018 C2	2018 06 25.95152	14 46 17.98	+13 57 07.0	15.7	R	B96
C/2018 C2	2018 06 25.95315	14 46 18.02	+13 57 03.6	15.7	R	B96
C/2018 C2	2018 06 25.95478	14 46 18.05	+13 57 00.0	15.7	R	B96
C/2018 C2	2018 06 26.94686	14 46 42.92	+13 21 22.1	15.6	R	B96
C/2018 C2	2018 06 26.94850	14 46 42.96	+13 21 18.4	15.6	R	B96
C/2018 C2	2018 06 26.95013	14 46 42.99	+13 21 14.7	15.6	R	B96
C/2018 C2	2018 06 26.95176	14 46 43.04	+13 21 11.5	15.6	R	B96
C/2018 C2	2018 06 26.95340	14 46 43.08	+13 21 07.7	15.6	R	B96
C/2018 C2	2018 06 26.95503	14 46 43.12	+13 21 04.4	15.6	R	B96
C/2018 C2	2018 06 26.96611	14 46 43.34	+13 20 41.4	15.6	N	L27
C/2018 C2	2018 06 26.98707	14 46 43.87	+13 19 55.8	15.6	N	L27
C/2018 C2	2018 06 27.00876	14 46 44.36	+13 19 09.2	15.7	N	L27
C/2018 C2	2018 06 27.94888	14 47 09.58	+12 45 24.3	15.6	R	B96
C/2018 C2	2018 06 27.95051	14 47 09.63	+12 45 20.7	15.7	R	B96
C/2018 C2	2018 06 27.95378	14 47 09.71	+12 45 13.6	15.6	R	B96
C/2018 C2	2018 06 27.95705	14 47 09.80	+12 45 06.4	15.6	R	B96
C/2018 C2	2018 06 28.37137	14 47 21.24	+12 30 18.5	15.8	o	T08
C/2018 C2	2018 06 28.38084	14 47 21.48	+12 29 58.1	15.7	o	T08
C/2018 C2	2018 06 28.39042	14 47 21.75	+12 29 37.9	15.9	o	T08
C/2018 C2	2018 06 28.40034	14 47 21.99	+12 29 15.9	15.9	o	T08
C/2018 C2	2018 06 28.90201	14 47 36.47	+12 11 14.9	15.8	N	C23
C/2018 C2	2018 06 28.90650	14 47 36.59	+12 11 04.9	15.6	N	C23
C/2018 C2	2018 06 28.91174	14 47 36.71	+12 10 53.9	15.7	N	C23
C/2018 C2	2018 06 28.94546	14 47 37.68	+12 09 41.2	15.6	R	B96
C/2018 C2	2018 06 28.95036	14 47 37.79	+12 09 30.5	15.7	R	B96
C/2018 C2	2018 06 28.95363	14 47 37.90	+12 09 23.8	15.6	R	B96
C/2018 C2	2018 06 29.35265	14 47 49.55	+11 55 09.7	15.9	o	T05
C/2018 C2	2018 06 29.36065	14 47 49.77	+11 54 52.6	15.8	o	T05
C/2018 C2	2018 06 29.36866	14 47 49.99	+11 54 35.2	15.8	o	T05
C/2018 C2	2018 06 29.37666	14 47 50.20	+11 54 18.0	15.8	o	T05
C/2018 C2	2018 06 29.86890	14 48 05.09	+11 36 40.2	16.4	N	K 160
C/2018 C2	2018 06 29.87167	14 48 05.17	+11 36 33.9	15.8	N	K 160
C/2018 C2	2018 06 29.87460	14 48 05.26	+11 36 27.9	15.9	N	K 160
C/2018 C2	2018 06 29.94300	14 48 07.29	+11 34 00.4	15.7	R	B96
C/2018 C2	2018 06 29.94463	14 48 07.33	+11 33 56.8	15.7	R	B96
C/2018 C2	2018 06 29.94627	14 48 07.38	+11 33 53.2	15.7	R	B96
C/2018 C2	2018 06 29.94791	14 48 07.43	+11 33 49.7	15.6	R	B96
C/2018 C2	2018 06 29.94954	14 48 07.48	+11 33 46.4	15.6	R	B96
C/2018 C2	2018 06 29.95117	14 48 07.52	+11 33 42.6	15.6	R	B96
C/2018 C2	2018 06 29.97014	14 48 08.08	+11 33 02.1	15.6	N	C23
C/2018 C2	2018 06 29.97464	14 48 08.20	+11 32 52.4	15.5	N	C23
C/2018 C2	2018 06 29.97838	14 48 08.31	+11 32 44.2	15.6	N	C23
C/2018 C2	2018 06 30.26142	14 48 17.29	+11 22 40.7	15.8	o	T05
C/2018 C2	2018 06 30.26188	14 48 17.30	+11 22 40.0	15.8	o	T05
C/2018 C2	2018 06 30.26262	14 48 17.33	+11 22 37.9	15.8	o	T05
C/2018 C2	2018 06 30.27076	14 48 17.56	+11 22 20.7	15.8	o	T05
C/2018 C2	2018 06 30.28125	14 48 17.88	+11 21 57.9	15.8	o	T05
C/2018 C2	2018 06 30.28531	14 48 17.97	+11 21 49.4	15.8	o	T05
C/2018 C2	2018 06 30.29009	14 48 18.10	+11 21 39.3	15.7	o	T05
C/2018 C2	2018 06 30.43172	14 48 22.52	+11 16 41.8	16.2	N	Q68
C/2018 C2	2018 06 30.47227	14 48 23.70	+11 15 14.9	16.3	N	Q68
C/2018 C2	2018 06 30.86654	14 48 36.16	+11 01 02.0	15.8	N	K 160
C/2018 C2	2018 06 30.86937	14 48 36.26	+11 00 55.7	16.4	N	K 160
C/2018 C2	2018 06 30.87219	14 48 36.32	+11 00 50.7	16.4	N	K 160
C/2018 C2	2018 07 01.37444	14 48 52.39	+10 42 59.2	15.8	o	T08
C/2018 C2	2018 07 01.38486	14 48 52.71	+10 42 36.9	15.8	o	T08
C/2018 C2	2018 07 01.39475	14 48 53.00	+10 42 15.7	16.0	o	T08
C/2018 C2	2018 07 01.40551	14 48 53.34	+10 41 52.6	15.9	o	T08
C/2018 C2	2018 07 01.58688	14 48 59.33	+10 35 23.9			K D81
C/2018 C2	2018 07 01.59297	14 48 59.51	+10 35 10.8			K D81
C/2018 C2	2018 07 01.59906	14 48 59.70	+10 34 57.7			K D81
C/2018 C2	2018 07 01.60516	14 48 59.86	+10 34 44.4	16.1	T	K D81
C/2018 C2	2018 07 01.87778	14 49 09.04	+10 25 06.1	15.9	N	K 160

C/2018 C2	2018 07 01.88033	14 49 09.13	+10 25 00.6	16.1	N	K 160
C/2018 C2	2018 07 01.88262	14 49 09.20	+10 24 55.6	17.0	N	K 160
C/2018 C2	2018 07 01.89798	14 49 09.80	+10 24 18.6	15.8	N	C23
C/2018 C2	2018 07 01.90247	14 49 09.95	+10 24 08.9	15.7	N	C23
C/2018 C2	2018 07 01.90621	14 49 10.06	+10 24 01.1	15.6	N	C23
C/2018 C2	2018 07 01.90817	14 49 10.06	+10 23 56.6	15.9	G	C47
C/2018 C2	2018 07 01.91186	14 49 10.19	+10 23 48.6	16.0	G	C47
C/2018 C2	2018 07 01.91592	14 49 10.31	+10 23 40.0	16.6	G	C47
C/2018 C2	2018 07 01.91997	14 49 10.47	+10 23 30.9	16.6	G	C47
C/2018 C2	2018 07 01.92403	14 49 10.58	+10 23 22.5	16.2	G	C47
C/2018 C2	2018 07 01.92883	14 49 10.74	+10 23 12.4	15.8	G	C47
C/2018 C2	2018 07 01.95759	14 49 11.73	+10 22 10.9	15.7	R	B96
C/2018 C2	2018 07 01.95922	14 49 11.79	+10 22 07.3	15.7	R	B96
C/2018 C2	2018 07 01.96250	14 49 11.91	+10 22 00.5	15.6	R	B96
C/2018 C2	2018 07 01.96576	14 49 12.00	+10 21 53.5	15.6	R	B96
C/2018 C2	2018 07 01.99927	14 49 13.07	+10 20 43.7	15.7	N	J22
C/2018 C2	2018 07 02.00319	14 49 13.19	+10 20 35.9	15.7	N	J22
C/2018 C2	2018 07 02.00713	14 49 13.30	+10 20 27.5	15.7	N	J22
C/2018 C2	2018 07 02.01057	14 49 13.60	+10 20 26.4	16.1	R	Y00
C/2018 C2	2018 07 02.01237	14 49 13.62	+10 20 22.3	16.2	R	Y00
C/2018 C2	2018 07 02.01367	14 49 13.45	+10 20 17.6	16.0	R	Y00
C/2018 C2	2018 07 02.90581	14 49 44.30	+09 48 34.1	16.8	R	20G40
C/2018 C2	2018 07 02.90765	14 49 44.37	+09 48 30.3	16.6	R	20G40
C/2018 C2	2018 07 02.92569	14 49 44.91	+09 47 50.1	15.7	N	J01
C/2018 C2	2018 07 02.93108	14 49 45.03	+09 47 38.6	15.9	N	L27
C/2018 C2	2018 07 02.93179	14 49 45.11	+09 47 37.2	15.7	N	J01
C/2018 C2	2018 07 02.93789	14 49 45.32	+09 47 24.2	15.8	N	J01
C/2018 C2	2018 07 02.94457	14 49 45.54	+09 47 09.2	15.5	R	B96
C/2018 C2	2018 07 02.94622	14 49 45.59	+09 47 05.8	15.5	R	B96
C/2018 C2	2018 07 02.94785	14 49 45.65	+09 47 02.2	15.6	R	B96
C/2018 C2	2018 07 02.94948	14 49 45.71	+09 46 58.8	15.5	R	B96
C/2018 C2	2018 07 02.95111	14 49 45.76	+09 46 55.3	15.5	R	B96
C/2018 C2	2018 07 02.95275	14 49 45.81	+09 46 51.9	15.5	R	B96
C/2018 C2	2018 07 02.95281	14 49 45.79	+09 46 52.1	15.9	N	L27
C/2018 C2	2018 07 02.96931	14 49 46.37	+09 46 16.4	15.7	N	K02
C/2018 C2	2018 07 02.97377	14 49 46.46	+09 46 07.5	15.8	N	L27
C/2018 C2	2018 07 02.97549	14 49 46.58	+09 46 03.1	15.7	N	K02
C/2018 C2	2018 07 02.98321	14 49 46.84	+09 45 46.8	15.7	N	K02
C/2018 C2	2018 07 03.87634	14 50 18.74	+09 14 11.5	16.6	N	L04
C/2018 C2	2018 07 03.88110	14 50 18.94	+09 14 01.3	16.6	N	L04
C/2018 C2	2018 07 03.88627	14 50 19.08	+09 13 50.4	16.6	N	L04
C/2018 C2	2018 07 04.27151	14 50 33.12	+09 00 16.2	15.5	G	703
C/2018 C2	2018 07 04.27679	14 50 33.31	+09 00 04.9	15.6	G	703
C/2018 C2	2018 07 04.28208	14 50 33.51	+08 59 53.7	15.6	G	703
C/2018 C2	2018 07 04.28736	14 50 33.69	+08 59 42.6	15.5	G	703
C/2018 C2	2018 07 04.36200	14 50 36.51	+08 57 05.7	15.9	o	T05
C/2018 C2	2018 07 04.37211	14 50 36.87	+08 56 44.5	15.8	o	T05
C/2018 C2	2018 07 04.39440	14 50 37.65	+08 55 57.1	16.1	o	T05
C/2018 C2	2018 07 04.40732	14 50 38.43	+08 55 36.0	16.1	N	Q68
C/2018 C2	2018 07 04.43946	14 50 39.56	+08 54 28.0	16.2	N	Q68
C/2018 C2	2018 07 05.25187	14 51 10.03	+08 25 45.1	15.5	G	703
C/2018 C2	2018 07 05.25722	14 51 10.22	+08 25 33.9	15.5	G	703
C/2018 C2	2018 07 05.26259	14 51 10.42	+08 25 22.5	15.5	G	703
C/2018 C2	2018 07 05.26794	14 51 10.65	+08 25 10.3	15.5	G	703
C/2018 C2	2018 07 05.49719	14 51 19.53	+08 17 15.6	16.1	N	Q68
C/2018 C2	2018 07 05.52916	14 51 20.71	+08 16 08.2	16.2	N	Q68
C/2018 C2	2018 07 05.89171	14 51 34.96	+08 03 17.1	15.7	N	C23
C/2018 C2	2018 07 05.89546	14 51 35.11	+08 03 09.4	15.8	N	C23
C/2018 C2	2018 07 05.89995	14 51 35.27	+08 02 59.5	15.6	N	C23
C/2018 C2	2018 07 05.94463	14 51 37.00	+08 01 25.6	15.4	R	B96
C/2018 C2	2018 07 05.94627	14 51 37.06	+08 01 22.1	15.4	R	B96
C/2018 C2	2018 07 05.94791	14 51 37.12	+08 01 18.6	15.4	R	B96
C/2018 C2	2018 07 05.94872	14 51 37.16	+08 01 17.8	15.6	N	Z55
C/2018 C2	2018 07 05.94938	14 51 37.26	+08 01 17.1	15.7	N	Z55
C/2018 C2	2018 07 05.94954	14 51 37.18	+08 01 15.2	15.4	R	B96
C/2018 C2	2018 07 05.95000	14 51 37.20	+08 01 15.2	15.7	N	Z55
C/2018 C2	2018 07 05.95117	14 51 37.25	+08 01 11.9	15.4	R	B96
C/2018 C2	2018 07 05.95170	14 51 37.30	+08 01 12.2	15.8	N	Z55
C/2018 C2	2018 07 05.95281	14 51 37.31	+08 01 08.1	15.4	R	B96
C/2018 C2	2018 07 07.90650	14 52 56.87	+06 53 00.8	15.8	N	C23
C/2018 C2	2018 07 07.91101	14 52 57.03	+06 52 51.5	15.7	N	C23
C/2018 C2	2018 07 07.91477	14 52 57.17	+06 52 43.7	15.7	N	C23
C/2018 C2	2018 07 07.94461	14 52 58.44	+06 51 41.7	15.5	R	B96
C/2018 C2	2018 07 07.94951	14 52 58.65	+06 51 31.3	15.4	R	B96
C/2018 C2	2018 07 07.95279	14 52 58.78	+06 51 24.5	15.5	R	B96
C/2018 C2	2018 07 08.64596	14 53 28.152	+06 27 26.94	16.2	G	D35
C/2018 C2	2018 07 08.66582	14 53 29.001	+06 26 45.02	16.5	G	D35
C/2018 C2	2018 07 08.68676	14 53 30.29	+06 26 03.5	19	R	C51
Geocentric position (km)	− 5155.5428	− 4433.5822	+ 880.3951			
C/2018 C2	2018 07 08.81767	14 53 35.96	+06 21 32.4			C51
Geocentric position (km)	− 5145.2116	− 4442.4614	+ 895.6770			
C/2018 C2	2018 07 08.86752	14 53 37.99	+06 19 46.4	16.0	N	C86
C/2018 C2	2018 07 08.86970	14 53 38.07	+06 19 41.7	16.0	N	C86
C/2018 C2	2018 07 08.87189	14 53 38.16	+06 19 37.0	15.8	N	C86
C/2018 C2	2018 07 08.87662	14 53 38.37	+06 19 26.7	15.8	N	Z55
C/2018 C2	2018 07 08.87806	14 53 38.49	+06 19 24.1	15.8	N	Z55
C/2018 C2	2018 07 08.87878	14 53 38.53	+06 19 22.4	15.8	N	Z55
C/2018 C2	2018 07 08.87946	14 53 38.51	+06 19 22.1	15.9	N	Z55
C/2018 C2	2018 07 08.94194	14 53 41.18	+06 17 10.7	15.5	R	B96
C/2018 C2	2018 07 08.94359	14 53 41.20	+06 17 07.0	15.5	R	B96
C/2018 C2	2018 07 08.94522	14 53 41.29	+06 17 03.8	15.5	R	B96
C/2018 C2	2018 07 08.94685	14 53 41.35	+06 17 00.5	15.5	R	B96
C/2018 C2	2018 07 08.94844	14 53 41.61	+06 17 01.3			C51
Geocentric position (km)	− 5135.8171	− 4466.4466	+ 828.4401			
C/2018 C2	2018 07 08.94848	14 53 41.44	+06 16 57.1	15.5	R	B96
C/2018 C2	2018 07 08.95012	14 53 41.50	+06 16 53.6	15.5	R	B96
C/2018 C2	2018 07 09.07935	14 53 47.32	+06 12 30.5			C51
Geocentric position (km)	− 5125.5121	− 4475.3539	+ 843.7483			
C/2018 C2	2018 07 09.21025	14 53 53.06	+06 07 59.7			C51
Geocentric position (km)	− 5115.4260	− 4484.3065	+ 860.3886			
C/2018 C2	2018 07 09.27557	14 53 55.94	+06 05 43.8			C51
Geocentric position (km)	− 5110.7327	− 4503.5287	+ 785.4589			
C/2018 C2	2018 07 09.27570	14 53 55.94	+06 05 44.4			C51
Geocentric position (km)	− 5110.2391	− 4488.7144	+ 868.0751			
C/2018 C2	2018 07 09.40648	14 54 01.71	+06 01 14.0			C51
Geocentric position (km)	− 5100.4323	− 4512.4233	+ 800.8874			

C/2018 C2	2018 07 09.47193	14 54 04.60	+05 58 58.7						C51	
Geocentric position (km)	− 5095.2645	− 4516.8536	+ 808.5878							
C/2018 C2	2018 07 09.50583	14 54 06.030	+05 57 46.58	16.4	G				D35	
C/2018 C2	2018 07 09.53687	14 54 07.47	+05 56 45.3						C51	
Geocentric position (km)	− 5085.3051	− 4574.7383	+ 484.9764							
C/2018 C2	2018 07 09.56433	14 54 08.491	+05 55 45.59	16.4	G				D35	
C/2018 C2	2018 07 09.60283	14 54 10.41	+05 54 28.6						C51	
Geocentric position (km)	− 5084.9051	− 4525.6814	+ 823.9994							
C/2018 C2	2018 07 09.60863	14 54 10.366	+05 54 14.21	16.4	G				D35	
C/2018 C2	2018 07 09.66407	14 54 12.764	+05 52 19.67	16.3	G			t	D35	
C/2018 C2	2018 07 09.66816	14 54 13.32	+05 52 13.8						C51	
Geocentric position (km)	− 5079.7649	− 4544.5861	+ 749.0656							
C/2018 C2	2018 07 09.66828	14 54 13.32	+05 52 13.3						C51	
Geocentric position (km)	− 5079.7078	− 4530.0743	+ 831.7053							
C/2018 C2	2018 07 09.73361	14 54 16.24	+05 49 58.7						C51	
Geocentric position (km)	− 5074.6167	− 4549.0409	+ 756.7526							
C/2018 C2	2018 07 09.88056	14 54 22.61	+05 44 52.3	16.5	N		K	160		
C/2018 C2	2018 07 09.88336	14 54 22.73	+05 44 46.5	16.4	N		K	160		
C/2018 C2	2018 07 09.88618	14 54 22.87	+05 44 40.6	16.4	N		K	160		
C/2018 C2	2018 07 09.92996	14 54 24.98	+05 43 14.1						C51	
Geocentric position (km)	− 5059.1006	− 4562.2990	+ 779.9517							
C/2018 C2	2018 07 10.06074	14 54 30.86	+05 38 45.1						C51	
Geocentric position (km)	− 5048.3560	− 4584.8995	+ 715.0571							
C/2018 C2	2018 07 10.06087	14 54 30.89	+05 38 44.5						C51	
Geocentric position (km)	− 5048.7085	− 4570.6700	+ 797.7452							
C/2018 C2	2018 07 10.32255	14 54 42.72	+05 29 46.4						C51	
Geocentric position (km)	− 5027.6608	− 4602.5578	+ 746.0540							
C/2018 C2	2018 07 10.45332	14 54 48.67	+05 25 18.9						C51	
Geocentric position (km)	− 5016.4724	− 4625.2350	+ 678.8252							
C/2018 C2	2018 07 10.45345	14 54 48.61	+05 25 18.1						C51	
Geocentric position (km)	− 5017.2512	− 4611.3119	+ 761.5627							
C/2018 C2	2018 07 10.88308	14 55 08.27	+05 10 32.6	15.9	N				C86	
C/2018 C2	2018 07 10.88674	14 55 08.43	+05 10 25.2	15.8	N				C86	
C/2018 C2	2018 07 10.88856	14 55 08.50	+05 10 21.3	15.9	N				C86	
C/2018 C2	2018 07 11.37415	14 55 30.96	+04 53 49.8	16.3	c				T05	
C/2018 C2	2018 07 11.38648	14 55 31.51	+04 53 24.8	16.3	c				T05	
C/2018 C2	2018 07 11.39804	14 55 32.04	+04 53 01.2	16.3	c				T05	
C/2018 C2	2018 07 11.91352	14 55 56.49	+04 35 27.6	15.5	N				C23	
C/2018 C2	2018 07 11.91726	14 55 56.68	+04 35 19.7	15.8	N				C23	
C/2018 C2	2018 07 11.92176	14 55 56.91	+04 35 10.9	15.5	N				C23	
C/2018 C2	2018 07 12.84201	14 56 41.31	+04 04 03.3	16.3	N		K	160		
C/2018 C2	2018 07 12.84333	14 56 41.39	+04 04 00.4				K	160		
C/2018 C2	2018 07 12.84472	14 56 41.46	+04 03 56.9				K	160		
C/2018 C2	2018 07 12.89542	14 56 43.92	+04 02 14.6	15.5	R				B96	
C/2018 C2	2018 07 12.89705	14 56 44.00	+04 02 11.2	15.5	R				B96	
C/2018 C2	2018 07 12.90032	14 56 44.16	+04 02 04.7	15.5	R				B96	
C/2018 C2	2018 07 12.90359	14 56 44.31	+04 01 58.1	15.4	R				B96	
C/2018 C2	2018 07 12.92560	14 56 45.33	+04 01 14.5	16.1	N				C86	
C/2018 C2	2018 07 12.92808	14 56 45.44	+04 01 09.2	15.9	N				C86	
C/2018 C2	2018 07 12.93056	14 56 45.56	+04 01 04.9	16.1	N				C86	
C/2018 C2	2018 07 13.34681	14 57 06.01	+03 47 05.7	16.0	o				T08	
C/2018 C2	2018 07 13.35749	14 57 06.51	+03 46 44.2	16.0	o				T08	
C/2018 C2	2018 07 13.36835	14 57 07.03	+03 46 22.2	16.0	o				T08	
C/2018 C2	2018 07 13.37920	14 57 07.54	+03 46 00.4	16.0	o				T08	
C/2018 C2	2018 07 13.51676	14 57 14.556	+03 41 22.47	16.6	G				D35	
C/2018 C2	2018 07 13.52112	14 57 14.72	+03 41 13.4	15.9	T				349	
C/2018 C2	2018 07 13.52741	14 57 15.01	+03 41 00.9						349	
C/2018 C2	2018 07 13.54683	14 57 15.94	+03 40 21.5						349	
C/2018 C2	2018 07 13.55311	14 57 16.23	+03 40 08.7						349	
C/2018 C2	2018 07 13.56244	14 57 16.67	+03 39 50.1						Q11	
C/2018 C2	2018 07 13.56670	14 57 16.88	+03 39 41.5						Q11	
C/2018 C2	2018 07 13.57311	14 57 17.19	+03 39 28.6						Q11	
C/2018 C2	2018 07 13.57955	14 57 17.50	+03 39 15.7	15.7	T				Q11	
C/2018 C2	2018 07 13.58627	14 57 17.867	+03 39 02.36	16.6	G				D35	
C/2018 C2	2018 07 13.63874	14 57 20.397	+03 37 16.65	16.6	G				D35	
C/2018 C2	2018 07 13.88932	14 57 33.07	+03 28 50.6	16.3	G				C47	
C/2018 C2	2018 07 13.89264	14 57 33.22	+03 28 44.0	16.2	G				C47	
C/2018 C2	2018 07 13.89633	14 57 33.42	+03 28 36.3	16.1	G				C47	
C/2018 C2	2018 07 13.89671	14 57 33.50	+03 28 35.8	15.6	R				B96	
C/2018 C2	2018 07 13.89818	14 57 33.50	+03 28 33.2	15.9	G				C47	
C/2018 C2	2018 07 13.90162	14 57 33.75	+03 28 26.2	15.5	R				B96	
C/2018 C2	2018 07 13.90490	14 57 33.90	+03 28 19.5	15.5	R				B96	
C/2018 C2	2018 07 13.92179	14 57 34.68	+03 27 45.8	16.0	G				C47	
C/2018 C2	2018 07 13.92531	14 57 34.87	+03 27 38.4	15.8	N				C23	
C/2018 C2	2018 07 13.92906	14 57 35.06	+03 27 30.9	15.7	N				C23	
C/2018 C2	2018 07 13.93205	14 57 35.22	+03 27 24.9	15.8	N				C23	
C/2018 C2	2018 07 13.94374	14 57 35.82	+03 27 02.1	16.1	N				J22	
C/2018 C2	2018 07 13.94770	14 57 35.97	+03 26 55.2	16.1	N				J22	
C/2018 C2	2018 07 13.95156	14 57 36.18	+03 26 47.7	16.1	N				J22	
C/2018 C2	2018 07 14.50801	14 58 04.471	+03 08 12.22	16.7	G				D35	
C/2018 C2	2018 07 14.56691	14 58 07.348	+03 06 14.09	16.5	G				D35	
C/2018 C2	2018 07 14.62755	14 58 10.348	+03 04 12.70	16.5	G				D35	
C/2018 C2	2018 07 14.89395	14 58 24.25	+02 55 20.7	15.8	T	9	G40			
C/2018 C2	2018 07 14.89956	14 58 24.53	+02 55 09.3	15.9	T	9	G40			
C/2018 C2	2018 07 14.90062	14 58 24.54	+02 55 05.3	15.7	R				B96	
C/2018 C2	2018 07 14.90389	14 58 24.72	+02 54 58.9	15.7	R				B96	
C/2018 C2	2018 07 14.90532	14 58 24.81	+02 54 57.9	15.8	T	9	G40			
C/2018 C2	2018 07 14.90880	14 58 24.97	+02 54 49.2	15.7	R				B96	
C/2018 C2	2018 07 15.44982	14 58 53.03	+02 36 59.8	16.3	N				Q68	
C/2018 C2	2018 07 15.47587	14 58 54.34	+02 36 07.8	16.3	N				Q68	
C/2018 C2	2018 07 15.51381	14 58 56.381	+02 34 46.63	16.5	G				D35	
C/2018 C2	2018 07 15.55715	14 58 58.59	+02 33 19.7	16.1	R				D29	
C/2018 C2	2018 07 15.57130	14 58 59.31	+02 32 51.6	16.0	R				D29	
C/2018 C2	2018 07 15.58544	14 59 00.03	+02 32 23.5	16.1	R				D29	
C/2018 C2	2018 07 15.61605	14 59 01.544	+02 31 23.52	16.6	G				D35	
C/2018 C2	2018 07 15.65657	14 59 03.622	+02 30 02.98	16.3	G			t	D35	
C/2018 C2	2018 07 16.92506	15 00 11.39	+01 48 15.4	15.5	R				B96	
C/2018 C2	2018 07 16.92998	15 00 11.63	+01 48 05.2	15.8	R				B96	
C/2018 C2	2018 07 16.93325	15 00 11.79	+01 47 58.6	15.8	R				B96	
C/2018 C2	2018 07 17.31790	15 00 32.69	+01 35 26.7	16.0	o				T08	
C/2018 C2	2018 07 17.32830	15 00 33.24	+01 35 06.4	16.0	o				T08	
C/2018 C2	2018 07 17.33815	15 00 33.76	+01 34 46.9	16.1	o				T08	
C/2018 C2	2018 07 17.34853	15 00 34.30	+01 34 26.7	16.1	o				T08	
C/2018 C2	2018 07 17.89648	15 01 04.51	+01 16 32.8	15.7	R				B96	
C/2018 C2	2018 07 17.89976	15 01 04.69	+01 16 26.5	15.8	R				B96	
C/2018 C2	2018 07 17.90466	15 01 04.95	+01 16 16.7	16.0	R				B96	

C/2018 C2	2018 07 17.92728	15 01 06.12	+01 15 32.5	15.8	N		C86
C/2018 C2	2018 07 17.92954	15 01 06.28	+01 15 28.2	15.9	N		C86
C/2018 C2	2018 07 17.93067	15 01 06.37	+01 15 27.0	15.9	N		C86
C/2018 C2	2018 07 18.39899	15 01 32.56	+01 00 21.8	16.3	N		Q68
C/2018 C2	2018 07 18.41466	15 01 33.40	+00 59 51.5	16.3	N		Q68
C/2018 C2	2018 07 18.62843	15 01 45.113	+00 52 50.32	16.8	G		D35
C/2018 C2	2018 07 18.65065	15 01 46.348	+00 52 07.13	16.4	G	t	D35
C/2018 C2	2018 07 18.85597	15 01 58.10	+00 45 27.6	16.6	N	K	160
C/2018 C2	2018 07 18.85875	15 01 58.25	+00 45 22.3	16.6	N	K	160
C/2018 C2	2018 07 18.86153	15 01 58.40	+00 45 16.9	16.6	N	K	160
C/2018 C2	2018 07 18.89720	15 02 00.43	+00 44 08.4	16.0	R		B96
C/2018 C2	2018 07 18.89883	15 02 00.52	+00 44 04.8	16.0	R		B96
C/2018 C2	2018 07 18.90046	15 02 00.63	+00 44 01.6	15.9	R		B96
C/2018 C2	2018 07 18.90211	15 02 00.72	+00 43 58.4	16.0	R		B96
C/2018 C2	2018 07 18.90374	15 02 00.81	+00 43 55.2	16.0	R		B96
C/2018 C2	2018 07 18.90537	15 02 00.88	+00 43 51.7	15.9	R		B96
C/2018 C2	2018 07 19.31627	15 02 24.17	+00 30 39.9	16.1	o		T05
C/2018 C2	2018 07 19.32605	15 02 24.71	+00 30 21.2	16.3	o		T05
C/2018 C2	2018 07 19.33588	15 02 25.26	+00 30 02.4	16.3	o		T05
C/2018 C2	2018 07 19.34574	15 02 25.80	+00 29 43.2	16.1	o		T05
C/2018 C2	2018 07 19.48518	15 02 33.80	+00 25 20.0	16.6	N		Q68
C/2018 C2	2018 07 19.49936	15 02 34.59	+00 24 52.6	16.5	N		Q68
C/2018 C2	2018 07 19.85355	15 02 54.99	+00 13 24.0	16.6	N	K	160
C/2018 C2	2018 07 19.85621	15 02 55.14	+00 13 18.8	16.8	N	K	160
C/2018 C2	2018 07 19.85889	15 02 55.32	+00 13 13.3	16.5	N	K	160
C/2018 C2	2018 07 19.86931	15 02 55.93	+00 12 54.0	15.9	N	K	L27
C/2018 C2	2018 07 19.88604	15 02 56.86	+00 12 21.8	15.8	N		C23
C/2018 C2	2018 07 19.88884	15 02 57.01	+00 12 16.2	16.0	N	K	L27
C/2018 C2	2018 07 19.89037	15 02 57.13	+00 12 12.7	15.9	N		C23
C/2018 C2	2018 07 19.89470	15 02 57.38	+00 12 05.3	15.7	N		C23
C/2018 C2	2018 07 19.89825	15 02 57.55	+00 11 58.0	16.1	N	K	L27
C/2018 C2	2018 07 22.88517	15 05 55.14	−01 22 23.7	16.1	N		B74
C/2018 C2	2018 07 22.89219	15 05 55.57	−01 22 36.9	16.1	N		B74
C/2018 C2	2018 07 22.89744	15 05 55.88	−01 22 46.7	16.1	N		B74
C/2018 C2	2018 07 23.33741	15 06 22.85	−01 36 26.3	16.1	o		T05
C/2018 C2	2018 07 23.34483	15 06 23.29	−01 36 40.1	16.2	o		T05
C/2018 C2	2018 07 23.34760	15 06 23.45	−01 36 45.4	16.1	o		T05
C/2018 C2	2018 07 23.35506	15 06 23.90	−01 36 59.1	16.4	o		T05
C/2018 C2	2018 07 23.35837	15 06 24.11	−01 37 05.3	16.1	o		T05
C/2018 C2	2018 07 23.36583	15 06 24.56	−01 37 19.3	16.1	o		T05
C/2018 C2	2018 07 23.36863	15 06 24.73	−01 37 24.3	16.3	o		T05
C/2018 C2	2018 07 23.37603	15 06 25.17	−01 37 38.2	16.5	o		T05
C/2018 C2	2018 07 23.88621	15 06 56.91	−01 53 28.9	16.2	N	K	C23
C/2018 C2	2018 07 23.89054	15 06 57.22	−01 53 35.4	15.9	N	K	C23
C/2018 C2	2018 07 23.89343	15 06 57.31	−01 53 41.4	15.8	N	K	C23
C/2018 C2	2018 07 24.85867	15 07 58.05	−02 23 22.9	16.1	G	K	C47
C/2018 C2	2018 07 24.86236	15 07 58.26	−02 23 29.9	17.1	G	K	C47
C/2018 C2	2018 07 24.86605	15 07 58.45	−02 23 36.5	17.0	G	K	C47
C/2018 C2	2018 07 24.86974	15 07 58.73	−02 23 43.5	16.7	G	K	C47
C/2018 C2	2018 07 24.87343	15 07 58.90	−02 23 50.5	17.2	G	K	C47
C/2018 C2	2018 07 24.87712	15 07 59.19	−02 23 57.2	16.7	G	K	C47
C/2018 C2	2018 07 24.88266	15 07 59.51	−02 24 07.3	16.5	G	K	C47
C/2018 C2	2018 07 25.34990	15 08 29.16	−02 38 21.4	16.4	o		T08
C/2018 C2	2018 07 25.35966	15 08 29.80	−02 38 38.8	16.3	o		T08
C/2018 C2	2018 07 25.36947	15 08 30.42	−02 38 56.6	16.3	o		T08
C/2018 C2	2018 07 26.32508	15 09 32.08	−03 07 56.4	16.1	o		T05
C/2018 C2	2018 07 26.33151	15 09 32.46	−03 08 07.6	16.2	o		T05
C/2018 C2	2018 07 26.33291	15 09 32.57	−03 08 10.4	16.2	o		T05
C/2018 C2	2018 07 26.34075	15 09 33.06	−03 08 24.6	16.1	o		T05
C/2018 C2	2018 07 26.34859	15 09 33.55	−03 08 38.9	16.2	o		T05
C/2018 C2	2018 07 27.34900	15 10 39.09	−03 38 41.8	16.0	o		T05
C/2018 C2	2018 07 27.35676	15 10 39.60	−03 38 56.2	16.3	o		T05
C/2018 C2	2018 07 27.36440	15 10 40.09	−03 39 10.0	16.4	o		T05
C/2018 C2	2018 07 27.37257	15 10 40.63	−03 39 24.4	16.1	o		T05
C/2018 C2	2018 07 28.33025	15 11 44.44	−04 07 53.4	16.3	o		T08
C/2018 C2	2018 07 28.34094	15 11 45.12	−04 08 12.7	16.3	o		T08
C/2018 C2	2018 07 28.35148	15 11 45.84	−04 08 31.2	16.2	o		T08
C/2018 C2	2018 07 28.36207	15 11 46.53	−04 08 50.2	16.3	o		T08
C/2018 C2	2018 07 29.29545	15 12 49.72	−04 36 19.7	16.3	o		T08
C/2018 C2	2018 07 29.30422	15 12 50.29	−04 36 35.3	16.4	o		T08
C/2018 C2	2018 07 29.31333	15 12 50.91	−04 36 51.3	16.3	o		T08
C/2018 C2	2018 07 29.32188	15 12 51.48	−04 37 06.2	16.3	o		T08
C/2018 C2	2018 07 30.85401	15 14 37.06	−05 21 42.0	16.5	N	K	160
C/2018 C2	2018 07 30.85678	15 14 37.25	−05 21 46.6	16.5	N	K	160
C/2018 C2	2018 07 30.85948	15 14 37.44	−05 21 51.0	16.8	N	K	160
C/2018 C2	2018 07 31.84519	15 15 46.60	−05 50 08.8	16.5	N	K	160
C/2018 C2	2018 07 31.84790	15 15 46.78	−05 50 13.4	16.5	N	K	160
C/2018 C2	2018 07 31.85075	15 15 46.97	−05 50 18.2	15.9	N	K	160
C/2018 C2	2018 07 31.85328	15 15 47.16	−05 50 22.2	16.5	N	K	L27
C/2018 C2	2018 07 31.86465	15 15 47.95	−05 50 41.8	16.3	N	K	L27
C/2018 C2	2018 07 31.87603	15 15 48.75	−05 51 01.2	16.4	N	K	L27
C/2018 C2	2018 08 01.86490	15 16 59.06	−06 19 06.4	16.2	N	K	C23
C/2018 C2	2018 08 01.86928	15 16 59.43	−06 19 13.4	15.9	N	K	C23
C/2018 C2	2018 08 01.87367	15 16 59.77	−06 19 21.4	16.0	N	K	C23
C/2018 C2	2018 08 02.31592	15 17 31.49	−06 31 46.7	16.4	o		T08
C/2018 C2	2018 08 02.32477	15 17 32.11	−06 32 01.1	16.6	o		T08
C/2018 C2	2018 08 02.32942	15 17 32.43	−06 32 09.7	16.4	o		T08
C/2018 C2	2018 08 02.33450	15 17 32.82	−06 32 17.9	16.2	o		T08
C/2018 C2	2018 08 02.33967	15 17 33.18	−06 32 26.8	16.3	o		T08
C/2018 C2	2018 08 02.34478	15 17 33.52	−06 32 35.5	16.4	o		T08
C/2018 C2	2018 08 02.34941	15 17 33.86	−06 32 43.3	16.4	o		T08
C/2018 C2	2018 08 02.35968	15 17 34.57	−06 33 00.3	16.3	o		T08
C/2018 C2	2018 08 03.32246	15 18 44.52	−06 59 55.8	16.7	c		T05
C/2018 C2	2018 08 03.33042	15 18 45.09	−07 00 08.7	16.8	c		T05
C/2018 C2	2018 08 03.33795	15 18 45.64	−07 00 21.0	16.7	c		T05
C/2018 C2	2018 08 03.34593	15 18 46.20	−07 00 34.5	17.1	c		T05
C/2018 C2	2018 08 04.50104	15 20 11.25	−07 32 30.0			K	D81
C/2018 C2	2018 08 04.50486	15 20 11.52	−07 32 36.5	16.8	T	K	D81
C/2018 C2	2018 08 04.50609	15 20 11.67	−07 32 38.8			K	367
C/2018 C2	2018 08 04.50730	15 20 11.77	−07 32 40.6	16.0	T	K	367
C/2018 C2	2018 08 05.50808	15 21 26.45	−07 59 59.3	16.1	T		Q11
C/2018 C2	2018 08 05.51666	15 21 27.09	−08 00 13.1				Q11
C/2018 C2	2018 08 05.52524	15 21 27.72	−08 00 27.2				Q11
C/2018 C2	2018 08 05.83331	15 21 50.99	−08 08 48.5	16.9	N	K	160
C/2018 C2	2018 08 05.83608	15 21 51.19	−08 08 53.1	17.0	N	K	160
C/2018 C2	2018 08 05.83883	15 21 51.41	−08 08 57.8	16.7	N	K	160

C/2018 C2	2018 08 05.86437	15 21 53.34	−08 09 38.7	16.1	N	C23
C/2018 C2	2018 08 05.86875	15 21 53.68	−08 09 46.7	15.8	N	C23
C/2018 C2	2018 08 05.87314	15 21 53.95	−08 09 52.1	16.0	N	C23
C/2018 C2	2018 08 05.91446	15 21 57.07	−08 10 58.7	16.5	N	J22
C/2018 C2	2018 08 05.91839	15 21 57.36	−08 11 05.7	16.5	N	J22
C/2018 C2	2018 08 05.92235	15 21 57.65	−08 11 11.4	16.5	N	J22
C/2018 C2	2018 08 06.31780	15 22 27.57	−08 21 50.7	16.6	o	T08
C/2018 C2	2018 08 06.32708	15 22 28.24	−08 22 05.5	16.4	o	T08
C/2018 C2	2018 08 06.34767	15 22 29.78	−08 22 38.5	16.4	o	T08
C/2018 C2	2018 08 08.86950	15 25 44.16	−09 29 30.7	16.3	G	K 104
C/2018 C2	2018 08 08.87698	15 25 44.73	−09 29 42.7	16.5	G	K 104
C/2018 C2	2018 08 09.45767	15 26 30.32	−09 44 43.7	17.1	G	Q38
C/2018 C2	2018 08 09.46160	15 26 30.62	−09 44 49.7	17.2	G	Q38
C/2018 C2	2018 08 09.46356	15 26 30.84	−09 44 54.1	16.9	G	Q38
C/2018 C2	2018 08 09.81898	15 26 58.84	−09 54 11.2	16.9	N	K 160
C/2018 C2	2018 08 09.82169	15 26 59.05	−09 54 15.6	17.0	N	K 160
C/2018 C2	2018 08 09.82439	15 26 59.28	−09 54 19.5	16.4	N	K 160
C/2018 C2	2018 08 11.88655	15 29 44.11	−10 46 56.5	16.6	R	K 215
C/2018 C2	2018 08 11.88784	15 29 44.20	−10 46 58.7	16.9	R	K 215
C/2018 C2	2018 08 11.88912	15 29 44.29	−10 47 01.0	17.1	R	K 215
C/2018 C2	2018 08 14.30230	15 33 01.86	−11 46 57.1	16.6	o	T08
C/2018 C2	2018 08 14.31130	15 33 02.57	−11 47 10.6	16.6	o	T08
C/2018 C2	2018 08 14.31176	15 33 02.59	−11 47 11.2	16.6	o	T08
C/2018 C2	2018 08 14.31327	15 33 02.76	−11 47 13.4	16.6	o	T08
C/2018 C2	2018 08 14.32072	15 33 03.34	−11 47 24.3	16.8	o	T08
C/2018 C2	2018 08 14.32117	15 33 03.40	−11 47 25.0	16.7	o	T08
C/2018 C2	2018 08 14.34184	15 33 05.07	−11 47 55.0	16.5	o	T08
C/2018 C2	2018 08 17.48952	15 37 30.18	−13 03 30.9	16.4	T	349
C/2018 C2	2018 08 17.49880	15 37 30.97	−13 03 43.7			349
C/2018 C2	2018 08 19.85971	15 40 54.80	−13 58 29.6	17.8	G	K 104
C/2018 C2	2018 08 19.86929	15 40 55.55	−13 58 42.5	17.8	G	K 104
C/2018 C2	2018 08 21.27019	15 42 58.69	−14 30 24.0	17.1	o	T08
C/2018 C2	2018 08 21.27781	15 42 59.35	−14 30 34.4	16.6	o	T08
C/2018 C2	2018 08 21.28016	15 42 59.56	−14 30 37.6	17.0	o	T08
C/2018 C2	2018 08 21.28719	15 43 00.17	−14 30 46.9	16.9	o	T08
C/2018 C2	2018 08 21.28952	15 43 00.36	−14 30 50.7	17.0	o	T08
C/2018 C2	2018 08 21.29605	15 43 00.99	−14 30 59.0	17.0	o	T08
C/2018 C2	2018 08 21.29882	15 43 01.20	−14 31 02.3	16.6	o	T08
C/2018 C2	2018 08 21.30491	15 43 01.66	−14 31 10.8	16.8	o	T08
C/2018 C2	2018 08 31.24801	15 58 14.42	−18 00 11.9	17.0	o	T05
C/2018 C2	2018 08 31.25592	15 58 15.19	−18 00 21.1	17.0	o	T05
C/2018 C2	2018 08 31.26342	15 58 15.87	−18 00 29.8	17.0	o	T05
C/2018 C2	2018 08 31.27082	15 58 16.55	−18 00 38.7	17.0	o	T05
C/2018 C2	2018 09 06.85552	16 08 55.94	−20 04 15.6	17.1	N	J22
C/2018 C2	2018 09 06.85946	16 08 56.39	−20 04 19.2	17.1	N	J22
C/2018 C2	2018 09 06.86337	16 08 56.73	−20 04 23.1	17.1	N	J22
C/2018 C2	2018 09 18.24100	16 28 19.15	−23 12 13.8	17.4	o	T08
C/2018 C2	2018 09 18.25151	16 28 20.22	−23 12 23.4	17.2	o	T08
C/2018 C2	2018 09 18.26087	16 28 21.14	−23 12 31.3	17.3	o	T08
C/2018 C2	2018 09 18.27064	16 28 22.26	−23 12 39.1	16.9	o	T08

C/2018 E1 (ATLAS)

C/2018 E1	2018 04 08.98595	05 29 22.81	−31 30 41.2	16.5	T	14W88
C/2018 E1	2018 04 08.98803	05 29 23.02	−31 30 38.1	16.5	T	14W88
C/2018 E1	2018 06 05.38247	07 13 31.71	−12 27 14.6	17.1	G	Q38
C/2018 E1	2018 06 05.38681	07 13 32.23	−12 27 11.8	16.7	G	Q38
C/2018 E1	2018 06 14.34627	07 28 57.89	−10 27 12.8			1 Q62
C/2018 E1	2018 06 14.34806	07 28 58.09	−10 27 11.4			1 Q62
C/2018 E1	2018 06 14.34989	07 28 58.26	−10 27 10.0	15.9	w	1 Q62

C/2018 EN$_4$ (NEOWISE)

C/2018 EN$_4$	2018 03 09.08775	06 34 15.16	−11 44 43.0	20	R	C51
Geocentric position (km)	− 1396.2275	+ 6571.9957	− 1397.3229			
C/2018 EN$_4$	2018 03 09.15320	06 34 12.44	−11 40 59.7			C51
Geocentric position (km)	− 1403.5464	+ 6570.8187	− 1395.4670			
C/2018 EN$_4$	2018 03 09.21865	06 34 09.78	−11 37 16.2			C51
Geocentric position (km)	− 1410.8638	+ 6569.6288	− 1393.6111			
C/2018 EN$_4$	2018 03 09.41552	06 34 02.04	−11 26 04.1			C51
Geocentric position (km)	− 1401.5566	+ 6632.9643	− 1060.8598			
C/2018 EN$_4$	2018 03 09.67733	06 33 51.52	−11 11 10.5			C51
Geocentric position (km)	− 1431.0217	+ 6627.8197	− 1053.2689			
C/2018 EN$_4$	2018 03 13.01507	06 31 56.93	−08 01 36.2	20.0	G	32 807
C/2018 EN$_4$	2018 03 13.01816	06 31 56.82	−08 01 25.7	20.4	G	32 807
C/2018 EN$_4$	2018 03 13.02756	06 31 56.52	−08 00 54.0	20.0	G	32 807
C/2018 EN$_4$	2018 03 13.17248	06 31 52.25	−07 52 49.9			H 691
C/2018 EN$_4$	2018 03 13.18366	06 31 51.93	−07 52 11.0			H 691
C/2018 EN$_4$	2018 03 13.19488	06 31 51.48	−07 51 32.9			H 691
C/2018 EN$_4$	2018 03 13.80208	06 31 34.50	−07 17 16.8	20.5	G	H 204
C/2018 EN$_4$	2018 03 13.82381	06 31 33.82	−07 16 02.7			K 204
C/2018 EN$_4$	2018 03 14.104249	06 31 26.23	−07 00 14.3	20.6	V	K H21
C/2018 EN$_4$	2018 03 14.108137	06 31 26.10	−07 00 01.0	20.5	V	K H21
C/2018 EN$_4$	2018 03 14.111885	06 31 26.00	−06 59 48.5	20.5	V	K H21
C/2018 EN$_4$	2018 03 14.20350	06 31 23.40	−06 54 38.1			I52
C/2018 EN$_4$	2018 03 14.20784	06 31 23.37	−06 54 23.3			I52
C/2018 EN$_4$	2018 03 14.20860	06 31 23.37	−06 54 21.0			I52
C/2018 EN$_4$	2018 03 14.21848	06 31 23.07	−06 53 47.0			I52
C/2018 EN$_4$	2018 03 15.44510	06 30 53.05	−05 44 45.7			1 Q62
C/2018 EN$_4$	2018 03 15.44734	06 30 52.99	−05 44 38.2			1 Q62
C/2018 EN$_4$	2018 03 15.44958	06 30 52.92	−05 44 30.6	20.8	w	1 Q62
C/2018 EN$_4$	2018 03 16.36664	06 30 33.14	−04 53 13.3			K 474
C/2018 EN$_4$	2018 03 16.36875	06 30 33.13	−04 53 07.1	20.6	R	K 474
C/2018 EN$_4$	2018 03 16.37086	06 30 33.12	−04 52 59.5	20.3	R	K 474
C/2018 EN$_4$	2018 03 17.00094	06 30 20.88	−04 17 56.6	20.4	G	4 I11
C/2018 EN$_4$	2018 03 17.00171	06 30 20.86	−04 17 54.1	20.2	G	4 I11
C/2018 EN$_4$	2018 03 17.00249	06 30 20.85	−04 17 51.4	20.4	G	4 I11
C/2018 EN$_4$	2018 03 17.00326	06 30 20.82	−04 17 48.8	20.4	G	4 I11
C/2018 EN$_4$	2018 03 22.288576	06 29 18.747	+00 30 32.37	20.6	G	29 568
C/2018 EN$_4$	2018 03 22.289762	06 29 18.738	+00 30 36.20	20.6	G	29 568
C/2018 EN$_4$	2018 03 22.290937	06 29 18.728	+00 30 39.96	20.5	G	29 568
C/2018 EN$_4$	2018 03 22.292122	06 29 18.721	+00 30 43.77	20.4	G	29 568
C/2018 EN$_4$	2018 05 13.18036	07 09 45.70	+34 41 40.5			5 U69
C/2018 EN$_4$	2018 05 13.18227	07 09 45.85	+34 41 43.2	18.5	w	5 U69
C/2018 EN$_4$	2018 05 14.14257	07 11 13.62	+35 08 10.9			32H06
C/2018 EN$_4$	2018 05 14.14499	07 11 13.82	+35 08 14.7			32H06

C/2018 EN_4	2018 05 14.14741	07 11 14.01	+35 08 18.4	18.0 w		32H06
C/2018 EN_4	2018 05 15.88118	07 13 56.22	+35 55 19.7	19.0 V		9 G40
C/2018 EN_4	2018 05 15.89218	07 13 57.24	+35 55 37.9	18.9 V		9 G40
C/2018 EN_4	2018 05 15.90305	07 13 58.24	+35 55 56.0	19.0 V		9 G40
C/2018 EN_4	2018 05 17.13272	07 15 56.33	+36 28 42.7			32H06
C/2018 EN_4	2018 05 17.13591	07 15 56.63	+36 28 47.8	18.5 w		32H06
C/2018 EN_4	2018 05 17.244118	07 16 07.108	+36 31 40.94	20.1 G		29 568
C/2018 EN_4	2018 05 17.245994	07 16 07.287	+36 31 43.83	20.1 G		29 568
C/2018 EN_4	2018 06 01.14929	07 43 23.85	+42 35 42.4			32H06
C/2018 EN_4	2018 06 01.15128	07 43 24.07	+42 35 44.9			32H06
C/2018 EN_4	2018 06 01.15328	07 43 24.32	+42 35 47.6	17.8 w		32H06
C/2018 EN_4	2018 06 03.14906	07 47 33.96	+43 20 23.2			32H06
C/2018 EN_4	2018 06 03.15149	07 47 34.25	+43 20 26.6			32H06
C/2018 EN_4	2018 06 03.15392	07 47 34.61	+43 20 30.0	17.4 w		32H06
C/2018 EN_4	2018 06 04.88801	07 51 18.00	+43 58 28.5	19.0 V		K A71
C/2018 EN_4	2018 06 04.89422	07 51 18.79	+43 58 36.6	18.6 V		K A71
C/2018 EN_4	2018 06 05.90501	07 53 31.69	+44 20 28.9	18.3 V		9 G40
C/2018 EN_4	2018 06 05.91201	07 53 32.67	+44 20 37.9	18.2 V		9 G40
C/2018 EN_4	2018 06 05.91890	07 53 33.63	+44 20 47.0	18.2 V		9 G40
C/2018 EN_4	2018 06 09.89515	08 02 37.88	+45 44 32.1			K 204
C/2018 EN_4	2018 06 09.89993	08 02 38.54	+45 44 38.0	19.0 G		K 204
C/2018 EN_4	2018 06 09.90689	08 02 39.55	+45 44 46.8			K 204
C/2018 EN_4	2018 06 12.46596	08 08 48.24	+46 36 56.2	17.7 T		K Q11
C/2018 EN_4	2018 06 12.47309	08 08 49.32	+46 37 04.8			K Q11
C/2018 EN_4	2018 06 12.47664	08 08 49.82	+46 37 08.8			K Q11
C/2018 EN_4	2018 07 29.87000	11 00 15.86	+57 31 27.6	17.8		K 215
C/2018 EN_4	2018 07 29.87257	11 00 16.55	+57 31 27.9	18.7		K 215
C/2018 EN_4	2018 07 29.87513	11 00 17.25	+57 31 27.6	18.4		K 215
C/2018 EN_4	2018 08 09.45693	11 54 39.54	+57 48 42.9	18.6 T		K Q11
C/2018 EN_4	2018 08 09.46121	11 54 40.90	+57 48 42.2			K Q11
C/2018 EN_4	2018 08 09.46550	11 54 42.27	+57 48 41.6			K Q11

C/2018 EF_9 (Lemmon)

C/2018 EF_9	2018 05 15.88221	06 45 13.42	+85 05 16.7	18.2 N		K L27
C/2018 EF_9	2018 05 15.90556	06 45 01.68	+85 05 09.3	18.5 N		K L27
C/2018 EF_9	2018 05 15.92816	06 44 51.25	+85 05 03.6	18.3 N		K L27
C/2018 EF_9	2018 05 20.93119	06 10 40.70	+84 42 58.9	18.7 N		K A71
C/2018 EF_9	2018 05 20.94483	06 10 35.99	+84 42 55.5	18.6 N		K A71
C/2018 EF_9	2018 05 20.96070	06 10 30.42	+84 42 51.1	18.8 N		K A71
C/2018 EF_9	2018 05 20.97600	06 10 25.66	+84 42 46.4	18.3 N		K A71
C/2018 EF_9	2018 05 20.98708	06 10 22.14	+84 42 43.0	18.9 N		K A71
C/2018 EF_9	2018 06 01.54059	05 21 28.73	+84 10 05.8			K D81
C/2018 EF_9	2018 06 01.54441	05 21 28.31	+84 10 06.2			K D81
C/2018 EF_9	2018 06 01.54822	05 21 27.66	+84 10 06.7			K D81
C/2018 EF_9	2018 06 01.55203	05 21 26.90	+84 10 05.8	16.9 T		K D81
C/2018 EF_9	2018 06 01.87623	05 20 23.20	+84 09 43.7	18.3 N		K L27
C/2018 EF_9	2018 06 01.89432	05 20 19.58	+84 09 41.5	18.1 N		K L27
C/2018 EF_9	2018 06 01.91241	05 20 15.39	+84 09 40.4	18.2 N		K L27
C/2018 EF_9	2018 06 03.90384	05 13 59.24	+84 07 54.2	18.9 N		K A71
C/2018 EF_9	2018 06 03.90959	05 13 58.36	+84 07 54.1	19.1 N		K A71
C/2018 EF_9	2018 06 03.92570	05 13 55.76	+84 07 53.4	19.4 N		K A71
C/2018 EF_9	2018 06 03.93376	05 13 54.30	+84 07 52.7	19.0 N		K A71
C/2018 EF_9	2018 06 04.93804	05 10 49.59	+84 07 27.4	19.0 N		K A71
C/2018 EF_9	2018 06 04.94251	05 10 49.33	+84 07 28.0	18.7 N		K A71
C/2018 EF_9	2018 09 11.242329	20 26 35.351	+55 57 15.87	23.4 G		29 568
C/2018 EF_9	2018 09 11.245589	20 26 35.388	+55 57 06.34	23.4 G		29 568

C/2018 F1 (Grauer)

C/2018 F1	2018 06 04.95606	12 28 47.66	+19 10 18.8	18.0 N		K 585
C/2018 F1	2018 06 04.95676	12 28 47.72	+19 10 17.9	17.8 N		K 585
C/2018 F1	2018 06 04.95747	12 28 47.64	+19 10 18.7	17.9 N		K 585
C/2018 F1	2018 06 04.95818	12 28 47.70	+19 10 18.7	17.8 N		K 585
C/2018 F1	2018 06 04.95889	12 28 47.73	+19 10 17.8	18.0 N		K 585
C/2018 F1	2018 06 04.96031	12 28 47.67	+19 10 18.6	17.9 N		K 585
C/2018 F1	2018 06 04.96101	12 28 47.65	+19 10 18.1	18.2 N		K 585
C/2018 F1	2018 06 04.96172	12 28 47.66	+19 10 19.3	18.2 N		K 585
C/2018 F1	2018 06 04.96243	12 28 47.66	+19 10 18.8	18.4 N		K 585
C/2018 F1	2018 06 10.96549	12 30 29.42	+19 22 50.5	18.7 N		9 G40
C/2018 F1	2018 06 10.97819	12 30 29.71	+19 22 51.2	18.9 N		9 G40
C/2018 F1	2018 07 04.18933	12 42 36.24	+19 23 46.1	17.9 G		703
C/2018 F1	2018 07 04.19646	12 42 36.54	+19 23 45.2	17.9 G		703
C/2018 F1	2018 07 04.20359	12 42 36.86	+19 23 43.3			703
C/2018 F1	2018 07 04.21072	12 42 37.14	+19 23 43.1	18.2 G		703
C/2018 F1	2018 07 04.26265	12 42 39.48	+19 23 40.9	18.6 o		T05
C/2018 F1	2018 07 04.27354	12 42 39.79	+19 23 39.8	18.4 o		T05
C/2018 F1	2018 07 04.28430	12 42 40.21	+19 23 38.7	18.9 o		T05
C/2018 F1	2018 07 04.29453	12 42 40.72	+19 23 38.4	19.0 o		T05
C/2018 F1	2018 07 14.90297	12 50 55.27	+19 03 51.3	18.6 N		J22
C/2018 F1	2018 07 14.90888	12 50 55.53	+19 03 51.3	18.6 N		J22
C/2018 F1	2018 07 14.91084	12 50 55.63	+19 03 51.1	18.6 N		J22
C/2018 F1	2018 07 16.28621	12 52 06.60	+19 00 33.2	19.4 c		T05
C/2018 F1	2018 07 16.29654	12 52 07.03	+19 00 32.9	19.2 c		T05
C/2018 F1	2018 07 16.30772	12 52 07.54	+19 00 31.5	19.4 c		T05
C/2018 F1	2018 07 16.31835	12 52 08.23	+19 00 29.3	19.2 c		T05

C/2018 F4 (PANSTARRS)

C/2018 F4	2018 06 05.27404	13 05 00.249	−10 24 37.61	20.0 w		F51
C/2018 F4	2018 06 05.28570	13 04 59.890	−10 24 38.81	19.9 w		F51
C/2018 F4	2018 06 05.29736	13 04 59.548	−10 24 40.09	20.1 w		F51
C/2018 F4	2018 06 05.30901	13 04 59.196	−10 24 41.41	19.7 w		F51
C/2018 F4	2018 06 12.49408	13 01 45.30	−10 38 51.8	18.8 T		K Q11
C/2018 F4	2018 06 12.50122	13 01 45.11	−10 38 52.7			K Q11
C/2018 F4	2018 06 12.50480	13 01 45.03	−10 38 53.3			K Q11
C/2018 F4	2018 06 18.247983	12 59 36.003	−10 52 02.14	21.2 G		29 568
C/2018 F4	2018 06 18.249163	12 59 35.977	−10 52 02.38	21.2 G		29 568
C/2018 F4	2018 06 18.250341	12 59 35.953	−10 52 02.49	21.3 G		29 568
C/2018 F4	2018 06 18.251518	12 59 35.931	−10 52 02.67	20.7 G		29 568
C/2018 F4	2018 07 17.34757	12 54 40.45	−12 25 36.9	19.6 N		474
C/2018 F4	2018 07 17.35461	12 54 40.46	−12 25 38.8	19.5 N		474
C/2018 F4	2018 07 17.37755	12 54 40.44	−12 25 44.1	19.2 N		474
C/2018 F4	2018 07 17.38155	12 54 40.46	−12 25 45.4	20.0 N		474
C/2018 F4	2018 08 10.32831	12 57 28.89	−14 17 13.9	19.4 G		474
C/2018 F4	2018 08 10.33031	12 57 28.92	−14 17 14.3	19.2 G		474
C/2018 F4	2018 08 10.33231	12 57 28.93	−14 17 15.1	19.3 G		474
C/2018 F4	2018 08 10.33631	12 57 29.00	−14 17 16.3	19.6 G		474

P/2018 H2 (PANSTARRS)

P/2018 H2	2018 05 20.46156	15 18 10.664	−14 58 22.91	19.1	w	F51
P/2018 H2	2018 05 20.47299	15 18 10.132	−14 58 24.53	19.2	w	F51
P/2018 H2	2018 05 20.48447	15 18 09.676	−14 58 26.02	19.5	w	F51
P/2018 H2	2018 05 20.49603	15 18 09.121	−14 58 27.98	19.4	w	F51
P/2018 H2	2018 05 21.67874	15 17 20.18	−15 01 26.3	18.2	T	349
P/2018 H2	2018 05 21.69050	15 17 19.64	−15 01 27.4			349
P/2018 H2	2018 06 02.91199	15 10 12.46	−15 35 29.7	18.6	N	17G40
P/2018 H2	2018 06 02.91891	15 10 12.23	−15 35 30.8	18.7	N	17G40
P/2018 H2	2018 06 02.92588	15 10 12.06	−15 35 32.2	18.5	N	17G40
P/2018 H2	2018 06 02.93280	15 10 11.84	−15 35 33.5	18.7	N	17G40
P/2018 H2	2018 06 05.33675	15 09 08.786	−15 43 03.49	20.0	w	F51
P/2018 H2	2018 06 05.34906	15 09 08.435	−15 43 05.83	20.2	w	F51
P/2018 H2	2018 06 05.36132	15 09 08.115	−15 43 08.14	20.2	w	F51
P/2018 H2	2018 06 05.37360	15 09 07.770	−15 43 10.45	20.2	w	F51
P/2018 H2	2018 06 09.87260	15 07 31.76	−15 58 04.6	19.3	N	K 157
P/2018 H2	2018 06 09.87752	15 07 31.64	−15 58 05.7	18.9	N	K 157
P/2018 H2	2018 06 12.53311	15 06 49.03	−16 07 20.9	18.6	T	K Q11
P/2018 H2	2018 06 12.60283	15 06 47.94	−16 07 35.6			K Q11

C/2018 K1 (Weiland)

C/2018 K1	2017 11 06.24388	23 13 29.874	−26 48 31.96	20.4	i	F51
C/2018 K1	2017 11 06.25457	23 13 28.074	−26 48 35.77	20.6	i	F51
C/2018 K1	2017 11 06.26512	23 13 26.293	−26 48 39.58	20.3	i	F51
C/2018 K1	2018 05 24.57837	19 44 22.165	−26 07 21.27	18.5	w	F51
C/2018 K1	2018 05 24.58873	19 44 18.429	−26 07 24.62	18.5	w	F51
C/2018 K1	2018 05 25.52985	19 38 35.86	−26 12 12.5	17.1	o	T08
C/2018 K1	2018 05 25.53313	19 38 34.61	−26 12 13.9	16.6	o	T08
C/2018 K1	2018 05 25.54194	19 38 31.32	−26 12 16.2	17.3	o	T08
C/2018 K1	2018 05 25.54469	19 38 30.29	−26 12 16.6	16.5	o	T08
C/2018 K1	2018 05 25.54560	19 38 29.96	−26 12 16.7	16.5	o	T08
C/2018 K1	2018 05 25.54883	19 38 28.77	−26 12 17.6	17.2	o	T08
C/2018 K1	2018 05 25.55664	19 38 25.92	−26 12 19.9	17.3	o	T08
C/2018 K1	2018 05 25.76064	19 37 09.84	−26 13 09.7	15.7	w	1 Q62
C/2018 K1	2018 05 25.76215	19 37 09.29	−26 13 10.4			1 Q62
C/2018 K1	2018 05 25.76679	19 37 07.56	−26 13 11.5	15.8	w	1 Q62
C/2018 K1	2018 05 25.81708	19 36 48.58	−26 13 24.9			1 Q62
C/2018 K1	2018 05 25.81881	19 36 47.92	−26 13 25.3			1 Q62
C/2018 K1	2018 05 25.82055	19 36 47.26	−26 13 25.4	15.7	w	1 Q62
C/2018 K1	2018 05 26.31202	19 33 42.08	−26 15 31.3	17.0	R	K I47
C/2018 K1	2018 05 26.31643	19 33 40.41	−26 15 33.2	17.0	R	K I47
C/2018 K1	2018 05 26.36253	19 33 22.79	−26 15 43.9	17.2	V	3W88
C/2018 K1	2018 05 26.36816	19 33 20.56	−26 15 46.2	17.1	V	3W88
C/2018 K1	2018 05 26.37386	19 33 18.46	−26 15 46.7	17.3	V	3W88
C/2018 K1	2018 05 26.43773	19 32 53.84	−26 16 02.0	17.1	R	11W88
C/2018 K1	2018 05 26.44120	19 32 52.50	−26 16 02.7	17.0	R	11W88
C/2018 K1	2018 05 26.54002	19 32 15.56	−26 16 25.1	16.6	R	N Q62
C/2018 K1	2018 05 26.54182	19 32 14.75	−26 16 24.7	16.9	R	N Q62
C/2018 K1	2018 05 26.54338	19 32 14.19	−26 16 24.7	16.9	R	N Q62
C/2018 K1	2018 05 26.59158	19 31 55.43	−26 16 37.2	18.1	V	30Q62
C/2018 K1	2018 05 26.60544	19 31 50.10	−26 16 40.4	18.1	V	30Q62
C/2018 K1	2018 05 26.61615	19 31 46.06	−26 16 43.2	17.4	G	25Q62
C/2018 K1	2018 05 26.61955	19 31 44.65	−26 16 43.5	18.0	V	30Q62
C/2018 K1	2018 05 26.62026	19 31 44.41	−26 16 45.2	17.5	G	25Q62
C/2018 K1	2018 05 26.62477	19 31 42.63	−26 16 43.5	18.3	V	K E23
C/2018 K1	2018 05 26.62824	19 31 41.35	−26 16 46.6	18.4	V	K E23
C/2018 K1	2018 05 26.63063	19 31 40.33	−26 16 46.7	18.2	V	30Q62
C/2018 K1	2018 05 26.63171	19 31 39.95	−26 16 46.5	18.1	V	K E23
C/2018 K1	2018 05 26.63519	19 31 38.67	−26 16 48.7	17.7	V	K E23
C/2018 K1	2018 05 26.63866	19 31 37.33	−26 16 48.9	17.4	V	K E23
C/2018 K1	2018 05 26.66120	19 31 28.63	−26 16 53.4	17.0	R	J Q62
C/2018 K1	2018 05 26.66205	19 31 28.27	−26 16 53.8	16.8	R	J Q62
C/2018 K1	2018 05 26.66288	19 31 27.95	−26 16 53.9	17.0	R	J Q62
C/2018 K1	2018 05 26.67163	19 31 24.51	−26 16 56.3	16.2	R	3 Q62
C/2018 K1	2018 05 26.67644	19 31 22.66	−26 16 56.9	16.1	R	3 Q62
C/2018 K1	2018 05 26.68115	19 31 20.83	−26 16 58.8	16.2	R	3 Q62
C/2018 K1	2018 05 26.68964	19 31 17.65	−26 17 08.4			349
C/2018 K1	2018 05 26.69535	19 31 15.44	−26 17 09.7	14.8	V	349
C/2018 K1	2018 05 26.77153	19 30 45.84	−26 17 25.8	17.0	R	372
C/2018 K1	2018 05 26.77431	19 30 44.76	−26 17 26.4			372
C/2018 K1	2018 05 26.79270	19 30 37.49	−26 17 22.5	17.8	V	30Q62
C/2018 K1	2018 05 26.79601	19 30 36.12	−26 17 23.1	17.3	R	6 Q62
C/2018 K1	2018 05 26.79780	19 30 35.48	−26 17 23.7	17.3	R	6 Q62
C/2018 K1	2018 05 26.79958	19 30 34.74	−26 17 24.2	17.2	R	6 Q62
C/2018 K1	2018 05 26.80133	19 30 34.11	−26 17 24.4	17.3	R	6 Q62
C/2018 K1	2018 05 26.80223	19 30 33.68	−26 17 25.4	17.4	R	6 Q62
C/2018 K1	2018 05 26.80631	19 30 32.16	−26 17 25.6	17.6	V	30Q62
C/2018 K1	2018 05 26.81976	19 30 26.95	−26 17 28.3	17.8	V	30Q62
C/2018 K1	2018 05 26.83344	19 30 21.60	−26 17 30.8	17.8	V	30Q62
C/2018 K1	2018 05 27.27487	19 27 29.63	−26 19 03.7	17.9	R	t Y00
C/2018 K1	2018 05 27.27652	19 27 28.90	−26 19 04.0	17.6	R	t Y00
C/2018 K1	2018 05 27.30266	19 27 18.82	−26 19 06.7	17.4	G	11W88
C/2018 K1	2018 05 27.30560	19 27 17.65	−26 19 06.8	17.2	G	11W88
C/2018 K1	2018 05 27.40057	19 26 40.39	−26 19 31.8	17.7	V	A H06
C/2018 K1	2018 05 27.41873	19 26 33.05	−26 19 34.8	17.8	V	A H06
C/2018 K1	2018 05 27.42850	19 26 29.27	−26 19 36.4	15.2	G	I52
C/2018 K1	2018 05 27.42996	19 26 28.66	−26 19 37.1	15.2	G	I52
C/2018 K1	2018 05 27.43037	19 26 28.52	−26 19 37.1	15.2	G	I52
C/2018 K1	2018 05 27.43126	19 26 27.78	−26 19 29.7	17.5	G	11W88
C/2018 K1	2018 05 27.43183	19 26 27.91	−26 19 37.4	15.2	G	I52
C/2018 K1	2018 05 27.43412	19 26 26.66	−26 19 30.2	17.7	G	11W88
C/2018 K1	2018 05 27.43755	19 26 25.27	−26 19 30.8	17.6	G	11W88
C/2018 K1	2018 05 28.11657	19 21 54.97	−26 21 16.8	17.3	R	KW96
C/2018 K1	2018 05 28.11982	19 21 53.81	−26 21 18.1	17.7	R	KW96
C/2018 K1	2018 05 28.12308	19 21 52.36	−26 21 17.2	17.6	R	KW96
C/2018 K1	2018 05 28.12632	19 21 51.12	−26 21 17.3	17.6	R	KW96
C/2018 K1	2018 05 28.12956	19 21 49.71	−26 21 19.4	17.5	R	KW96
C/2018 K1	2018 05 28.14753	19 21 42.53	−26 21 22.3	17.7	R	KW96
C/2018 K1	2018 05 28.15401	19 21 39.95	−26 21 23.1	17.6	R	KW96
C/2018 K1	2018 05 28.35253	19 20 18.60	−26 21 49.7	17.1	R	K Y00
C/2018 K1	2018 05 28.35382	19 20 18.03	−26 21 49.8	17.8	R	K Y00
C/2018 K1	2018 05 28.35412	19 20 17.95	−26 21 49.8	17.9	R	K Y00
C/2018 K1	2018 05 28.35571	19 20 17.31	−26 21 50.2	17.9	R	K Y00
C/2018 K1	2018 05 28.60742	19 18 35.29	−26 22 17.0	17.4		2 Q62
C/2018 K1	2018 05 28.60815	19 18 34.95	−26 22 17.0	17.3		2 Q62
C/2018 K1	2018 05 28.61032	19 18 34.08	−26 22 16.8	17.2		2 Q62

C/2018 K1	2018 05 29.41940	19 12 58.25	−26 23 25.7	16.4	R	K	H47
C/2018 K1	2018 05 29.42441	19 12 56.22	−26 23 25.6	17.2	R	K	H47
C/2018 K1	2018 05 30.20147	19 07 27.22	−26 23 31.7	17.6	R	t	Y00
C/2018 K1	2018 05 30.21112	19 07 23.00	−26 23 32.7	17.5	R	t	Y00
C/2018 K1	2018 05 30.34176	19 06 27.14	−26 23 34.5			K	691
C/2018 K1	2018 05 30.34974	19 06 23.64	−26 23 34.6			K	691
C/2018 K1	2018 06 07.55409	18 02 57.08	−25 27 26.8				D95
C/2018 K1	2018 06 07.56432	18 02 52.09	−25 27 20.3	17.2	T		D95
C/2018 K1	2018 06 07.59665	18 02 36.34	−25 26 53.7	17.0	T	K	Q23
C/2018 K1	2018 06 07.61099	18 02 29.35	−25 26 42.1			K	Q23
C/2018 K1	2018 06 07.63439	18 02 17.92	−25 26 23.1	14.7	T		349
C/2018 K1	2018 06 07.64153	18 02 14.42	−25 26 17.0				349
C/2018 K1	2018 06 07.65766	18 02 06.61	−25 26 03.1				349
C/2018 K1	2018 06 07.66485	18 02 03.08	−25 25 56.9				349
C/2018 K1	2018 06 09.34920	17 48 27.72	−24 59 57.9	16.6	R	K	H47
C/2018 K1	2018 06 09.35788	17 48 23.54	−24 59 47.2	16.8	R	K	H47
C/2018 K1	2018 06 12.55347	17 22 58.40	−23 58 01.7	17.0	T		372
C/2018 K1	2018 06 12.56215	17 22 54.32	−23 57 50.8				372
C/2018 K1	2018 06 12.62382	17 22 25.16	−23 56 30.7			K	Q11
C/2018 K1	2018 06 12.62453	17 22 24.84	−23 56 29.8			K	Q11
C/2018 K1	2018 06 12.63275	17 22 20.97	−23 56 19.1	15.8	T	K	Q11
C/2018 K1	2018 06 13.57962	17 15 00.62	−23 35 09.8			K	D81
C/2018 K1	2018 06 13.59887	17 14 51.70	−23 34 45.4	16.3	T	K	D81
C/2018 K1	2018 06 15.94751	16 57 12.09	−22 37 59.1	16.9	N	K	L27
C/2018 K1	2018 06 15.96050	16 57 06.36	−22 37 40.2	16.8	N	K	L27
C/2018 K1	2018 06 15.97349	16 57 00.55	−22 37 19.8	16.9	N	K	L27
C/2018 K1	2018 06 16.41881	16 53 45.98	−22 25 58.4	17.0	c		T05
C/2018 K1	2018 06 16.43166	16 53 40.26	−22 25 38.3	17.6	c		T05
C/2018 K1	2018 06 16.44081	16 53 36.32	−22 25 24.2	16.8	c		T05
C/2018 K1	2018 06 17.02798	16 49 23.54	−22 10 06.2	17.1	N	K	W96
C/2018 K1	2018 06 17.03537	16 49 20.40	−22 09 53.5	17.2	N	K	W96
C/2018 K1	2018 06 18.28810	16 40 32.88	−21 36 54.1	17.4	R	K	H47
C/2018 K1	2018 06 18.29474	16 40 30.09	−21 36 44.6	17.3	R	K	H47
C/2018 K1	2018 06 18.29845	16 40 28.56	−21 36 38.3	17.5	R	K	H47
C/2018 K1	2018 06 18.40203	16 39 46.09	−21 33 50.8	16.7	o		T08
C/2018 K1	2018 06 18.40988	16 39 42.83	−21 33 38.2	16.8	o		T08
C/2018 K1	2018 06 18.41264	16 39 41.72	−21 33 33.9	16.8	o		T08
C/2018 K1	2018 06 18.42236	16 39 37.58	−21 33 17.3	17.4	o		T08
C/2018 K1	2018 06 19.10797	16 34 58.56	−21 14 40.9	16.9	N	13	W88
C/2018 K1	2018 06 19.11890	16 34 54.04	−21 14 22.9	17.3	N	13	W88
C/2018 K1	2018 06 19.98408	16 29 10.16	−20 50 58.7			K	215
C/2018 K1	2018 06 19.98541	16 29 09.55	−20 50 56.2	17.3		K	215
C/2018 K1	2018 06 19.98670	16 29 09.04	−20 50 54.1	17.1		K	215
C/2018 K1	2018 06 19.98798	16 29 08.54	−20 50 52.0	17.2		K	215
C/2018 K1	2018 06 21.89993	16 17 03.45	−19 58 19.3	17.5	N	K	C10
C/2018 K1	2018 06 21.90591	16 17 01.19	−19 58 08.5	17.6	N	K	C10
C/2018 K1	2018 06 21.91787	16 16 56.52	−19 57 45.7	17.5	N	K	C10
C/2018 K1	2018 06 22.89828	16 11 04.04	−19 30 50.8	17.4	N	K	L27
C/2018 K1	2018 06 22.91331	16 10 58.75	−19 30 28.6	17.4	N	K	L27
C/2018 K1	2018 07 01.39527	15 28 49.75	−15 51 10.7	18.3	o		T08
C/2018 K1	2018 07 01.39718	15 28 49.27	−15 51 07.4	18.3	o		T08
C/2018 K1	2018 07 01.40604	15 28 47.19	−15 50 56.4	18.3	o		T08
C/2018 K1	2018 07 01.40805	15 28 46.56	−15 50 52.5	18.4	o		T08
C/2018 K1	2018 07 01.41837	15 28 44.09	−15 50 38.5	18.1	o		T08
C/2018 K1	2018 07 01.42683	15 28 42.12	−15 50 24.7	18.4	o		T08
C/2018 K1	2018 07 04.41645	15 17 16.31	−14 43 04.9	17.9	N	K	Q68
C/2018 K1	2018 07 04.44535	15 17 10.09	−14 42 28.1	18.2	N	K	Q68
C/2018 K1	2018 07 13.54161	14 50 59.98	−11 55 57.2	18.3	T	K	Q11
C/2018 K1	2018 07 13.54768	14 50 59.15	−11 55 52.0			K	Q11
C/2018 K1	2018 07 13.90901	14 50 10.21	−11 50 22.4	18.5	V	K	215
C/2018 K1	2018 07 13.91004	14 50 10.17	−11 50 22.9			K	215
C/2018 K1	2018 07 13.91107	14 50 09.98	−11 50 21.5	18.6	V	K	215
C/2018 K1	2018 07 15.45762	14 46 50.50	−11 27 36.5	18.6	N	K	Q68
C/2018 K1	2018 07 15.48050	14 46 47.63	−11 27 17.6	18.7	N	K	Q68

C/2018 KJ$_3$ (Lemmon)

C/2018 KJ$_3$	2018 05 17.40610	20 19 11.99	+05 17 13.3	19.9	G		G96
C/2018 KJ$_3$	2018 05 17.41087	20 19 11.84	+05 17 13.2	19.9	G		G96
C/2018 KJ$_3$	2018 05 17.41566	20 19 11.69	+05 17 13.2	19.8	G		G96
C/2018 KJ$_3$	2018 05 17.42044	20 19 11.54	+05 17 13.0	20.2	G		G96
C/2018 KJ$_3$	2018 05 17.437859	20 19 11.03	+05 17 12.6	20.0	G		H01
C/2018 KJ$_3$	2018 05 17.445126	20 19 10.81	+05 17 12.4	19.8	G		H01
C/2018 KJ$_3$	2018 05 17.452941	20 19 10.57	+05 17 12.2	19.7	G		H01
C/2018 KJ$_3$	2018 05 17.456717	20 19 10.46	+05 17 12.1	20.0	G		H01
C/2018 KJ$_3$	2018 05 18.16053	20 18 49.44	+05 16 54.1	19.8	G		17G40
C/2018 KJ$_3$	2018 05 18.16338	20 18 49.36	+05 16 54.0	19.8	G		17G40
C/2018 KJ$_3$	2018 05 18.361174	20 18 43.39	+05 16 48.4	20.0	G		H01
C/2018 KJ$_3$	2018 05 18.368730	20 18 43.16	+05 16 48.2	19.9	G		H01
C/2018 KJ$_3$	2018 05 18.376285	20 18 42.93	+05 16 48.0	19.9	G		H01
C/2018 KJ$_3$	2018 05 18.37994	20 18 42.75	+05 16 47.9	19.7	G		I52
C/2018 KJ$_3$	2018 05 18.383839	20 18 42.70	+05 16 47.7	19.9	G		H01
C/2018 KJ$_3$	2018 05 18.39117	20 18 42.48	+05 16 47.5	19.8	G		I52
C/2018 KJ$_3$	2018 05 18.39903	20 18 42.23	+05 16 47.0	19.8	G		I52
C/2018 KJ$_3$	2018 05 18.43781	20 18 41.03	+05 16 46.2				32H06
C/2018 KJ$_3$	2018 05 18.44100	20 18 40.92	+05 16 46.0				32H06
C/2018 KJ$_3$	2018 05 18.44419	20 18 40.84	+05 16 45.8	20.3	w		32H06
C/2018 KJ$_3$	2018 05 19.06512	20 18 21.74	+05 16 27.3	20.3	V		L01
C/2018 KJ$_3$	2018 05 19.06733	20 18 21.65	+05 16 27.1	20.5	V		L01
C/2018 KJ$_3$	2018 05 19.08499	20 18 21.08	+05 16 26.6	20.6	V		L01
C/2018 KJ$_3$	2018 05 19.39205	20 18 11.55	+05 16 17.5	19.7	G		I52
C/2018 KJ$_3$	2018 05 19.39892	20 18 11.31	+05 16 16.5	19.7	G		I52
C/2018 KJ$_3$	2018 05 19.40579	20 18 11.10	+05 16 16.3	19.5	G		I52
C/2018 KJ$_3$	2018 05 19.41266	20 18 10.88	+05 16 16.2	19.6	G		I52
C/2018 KJ$_3$	2018 05 19.546596	20 18 06.60	+05 16 12.1	19.8	R	9	F65
C/2018 KJ$_3$	2018 05 19.548878	20 18 06.56	+05 16 12.1	19.8	R	9	F65
C/2018 KJ$_3$	2018 05 19.551142	20 18 06.48	+05 16 12.0	19.8	R	9	F65
C/2018 KJ$_3$	2018 05 19.553405	20 18 06.39	+05 16 11.9	19.8	R	9	F65
C/2018 KJ$_3$	2018 05 19.555668	20 18 06.34	+05 16 11.7	19.9	R	9	F65
C/2018 KJ$_3$	2018 05 19.557931	20 18 06.26	+05 16 11.8	19.8	R	9	F65
C/2018 KJ$_3$	2018 05 20.01236	20 17 51.90	+05 15 54.7	20.4	V		L01
C/2018 KJ$_3$	2018 05 20.01456	20 17 51.81	+05 15 55.3	20.4	V		L01
C/2018 KJ$_3$	2018 05 20.01676	20 17 51.74	+05 15 55.3	20.4	V		L01
C/2018 KJ$_3$	2018 05 20.01897	20 17 51.66	+05 15 54.7	20.3	V		L01
C/2018 KJ$_3$	2018 05 20.02119	20 17 51.61	+05 15 55.3	20.5	V		L01
C/2018 KJ$_3$	2018 05 20.02339	20 17 51.53	+05 15 54.3	20.5	V		L01
C/2018 KJ$_3$	2018 05 20.054506	20 17 50.53	+05 15 54.2	20.5	V	K	C95

C/2018 KJ_3	2018 05 20.074017	20 17 49.91	+05 15 53.1	20.0	V	K	C95
C/2018 KJ_3	2018 05 20.093541	20 17 49.27	+05 15 52.2	19.7	V	K	C95
C/2018 KJ_3	2018 05 20.42736	20 17 38.55	+05 15 40.6	19.4	G		I52
C/2018 KJ_3	2018 05 20.43430	20 17 38.31	+05 15 40.2	19.6	G		I52
C/2018 KJ_3	2018 05 20.44123	20 17 38.05	+05 15 39.3	19.5	G		I52
C/2018 KJ_3	2018 05 20.46072	20 17 37.43	+05 15 39.5			H	691
C/2018 KJ_3	2018 05 20.46436	20 17 37.30	+05 15 38.8			H	691
C/2018 KJ_3	2018 05 21.42284	20 17 05.85	+05 14 59.5				I52
C/2018 KJ_3	2018 05 21.43057	20 17 05.54	+05 14 59.6	19.5	G		I52
C/2018 KJ_3	2018 05 21.43451	20 17 05.44	+05 14 59.9	19.5	R	H	691
C/2018 KJ_3	2018 05 21.43735	20 17 05.34	+05 14 59.3	19.5	G		I52
C/2018 KJ_3	2018 05 21.44872	20 17 04.97	+05 14 59.3	20.0	R	H	691
C/2018 KJ_3	2018 05 21.46297	20 17 04.46	+05 14 58.7			H	691
C/2018 KJ_3	2018 05 22.39207	20 16 33.07	+05 14 16.3	19.9	G		I52
C/2018 KJ_3	2018 05 22.39911	20 16 32.87	+05 14 16.1	19.8	G		I52
C/2018 KJ_3	2018 05 22.41146	20 16 32.42	+05 14 15.0	19.8	G		I52
C/2018 KJ_3	2018 05 23.03335	20 16 10.90	+05 13 44.4	19.7	G	K	J77
C/2018 KJ_3	2018 05 23.04933	20 16 10.36	+05 13 43.2	20.1	G	K	J77
C/2018 KJ_3	2018 05 23.06396	20 16 09.89	+05 13 42.9	19.9	G	K	J77
C/2018 KJ_3	2018 05 23.07846	20 16 09.34	+05 13 41.8	19.6	G	K	J77
C/2018 KJ_3	2018 05 23.27781	20 16 02.35	+05 13 34.5	19.8	R	KW	96
C/2018 KJ_3	2018 05 23.29435	20 16 01.78	+05 13 33.2	19.9	R	KW	96
C/2018 KJ_3	2018 05 23.31088	20 16 01.22	+05 13 31.9	20.1	R	KW	96
C/2018 KJ_3	2018 05 23.38372	20 15 58.63	+05 13 26.3	19.9	G		I52
C/2018 KJ_3	2018 05 23.38977	20 15 58.44	+05 13 26.1	20.1	G		I52
C/2018 KJ_3	2018 05 23.39649	20 15 58.18	+05 13 25.8	19.6	G		I52
C/2018 KJ_3	2018 05 23.40406	20 15 57.92	+05 13 25.7	19.4	G		I52
C/2018 KJ_3	2018 05 24.37716	20 15 23.22	+05 12 31.9	20.2	G		I52
C/2018 KJ_3	2018 05 24.38279	20 15 23.00	+05 12 31.3	19.5	G		I52
C/2018 KJ_3	2018 05 24.39008	20 15 22.73	+05 12 30.7	19.9	G		I52
C/2018 KJ_3	2018 05 24.39673	20 15 22.50	+05 12 30.4	19.8	G		I52
C/2018 KJ_3	2018 05 24.972623	20 15 01.51	+05 11 55.8	20.3	G	K	K41
C/2018 KJ_3	2018 05 24.977340	20 15 01.39	+05 11 55.7	20.7	G	K	K41
C/2018 KJ_3	2018 05 24.981695	20 15 01.22	+05 11 55.2	20.1	G	K	K41
C/2018 KJ_3	2018 05 25.37689	20 14 46.56	+05 11 29.8				I52
C/2018 KJ_3	2018 05 25.38419	20 14 46.22	+05 11 29.9	19.8	G		I52
C/2018 KJ_3	2018 05 25.39880	20 14 45.62	+05 11 29.8				I52
C/2018 KJ_3	2018 05 26.56453	20 14 01.772	+05 10 12.70	19.8	i		F51
C/2018 KJ_3	2018 05 26.57523	20 14 01.352	+05 10 12.02	19.7	i		F51
C/2018 KJ_3	2018 05 26.58597	20 14 00.939	+05 10 11.21	19.9	i		F51
C/2018 KJ_3	2018 05 26.59672	20 14 00.521	+05 10 10.33	19.7	i		F51
C/2018 KJ_3	2018 05 28.37454	20 12 50.95	+05 07 57.5	19.5	R	28	695
C/2018 KJ_3	2018 05 28.37881	20 12 50.77	+05 07 57.2	19.4	R	28	695
C/2018 KJ_3	2018 05 28.38309	20 12 50.60	+05 07 56.9	19.4	R	28	695
C/2018 KJ_3	2018 05 30.31348	20 11 31.52	+05 05 11.2	20.0	R	K	691
C/2018 KJ_3	2018 05 30.32251	20 11 31.13	+05 05 10.5	20.1	R	K	691
C/2018 KJ_3	2018 06 06.580680	20 06 01.343	+04 51 25.76	19.9	G	29	568
C/2018 KJ_3	2018 06 06.581865	20 06 01.281	+04 51 25.60	19.8	G	29	568
C/2018 KJ_3	2018 06 06.73752	20 05 53.62	+04 51 06.2	19.3	G	O	Q62
C/2018 KJ_3	2018 06 06.76034	20 05 52.52	+04 51 02.7	20.5	G	O	Q62
C/2018 KJ_3	2018 06 10.03821	20 03 06.54	+04 42 49.6	18.8	R	K	157
C/2018 KJ_3	2018 06 10.04557	20 03 06.21	+04 42 48.4	19.0	R	K	157
C/2018 KJ_3	2018 06 10.05293	20 03 05.82	+04 42 47.2	19.2	R	K	157
C/2018 KJ_3	2018 06 13.04896	20 00 25.27	+04 34 11.3	19.9	R	K	J01
C/2018 KJ_3	2018 06 13.07729	20 00 23.69	+04 34 06.2	19.1	R	K	J01
C/2018 KJ_3	2018 06 13.08438	20 00 23.29	+04 34 05.1	19.4	R	K	J01
C/2018 KJ_3	2018 06 17.03369	19 56 39.16	+04 21 02.1	19.2	R	K	157
C/2018 KJ_3	2018 06 17.03789	19 56 38.94	+04 21 01.0	18.9	R	K	157
C/2018 KJ_3	2018 06 17.04209	19 56 38.65	+04 21 00.3	19.0	R	K	157
C/2018 KJ_3	2018 06 17.04630	19 56 38.47	+04 20 59.3	18.9	R	K	157
C/2018 KJ_3	2018 06 17.05052	19 56 38.20	+04 20 58.3	19.1	R	K	157
C/2018 KJ_3	2018 06 17.05474	19 56 37.93	+04 20 57.4	18.9	R	K	157
C/2018 KJ_3	2018 06 17.05842	19 56 37.73	+04 20 57.0	18.9		K	104
C/2018 KJ_3	2018 06 17.06610	19 56 37.25	+04 20 55.3	19.5		K	104
C/2018 KJ_3	2018 06 17.07377	19 56 36.79	+04 20 53.2	19.1		K	104
C/2018 KJ_3	2018 06 19.36532	19 54 20.55	+04 12 23.9	19.0	R	H	691
C/2018 KJ_3	2018 06 19.38050	19 54 19.67	+04 12 20.4	19.0	R	H	691
C/2018 KJ_3	2018 06 19.39571	19 54 18.74	+04 12 16.7			H	691
C/2018 KJ_3	2018 06 20.34544	19 53 20.97	+04 08 33.4	19.0	R	H	691
C/2018 KJ_3	2018 06 20.35808	19 53 20.20	+04 08 30.4	19.1	R	H	691
C/2018 KJ_3	2018 06 20.37107	19 53 19.39	+04 08 27.1	18.9	R	H	691
C/2018 KJ_3	2018 06 22.01316	19 51 37.74	+04 01 43.3	19.0	R	8	094
C/2018 KJ_3	2018 06 22.01422	19 51 37.67	+04 01 43.1	18.1	R	8	094
C/2018 KJ_3	2018 06 22.01528	19 51 37.61	+04 01 42.8	18.9	R	8	094
C/2018 KJ_3	2018 06 22.01634	19 51 37.53	+04 01 42.6	18.8	R	8	094
C/2018 KJ_3	2018 06 22.43192	19 51 11.54	+03 59 56.8	19.0	R	K	291
C/2018 KJ_3	2018 06 22.43566	19 51 11.25	+03 59 56.3	19.2	R	K	291
C/2018 KJ_3	2018 06 22.43940	19 51 11.01	+03 59 55.3	19.4	R	K	291
C/2018 KJ_3	2018 07 07.96528	19 33 35.87	+02 37 40.7	18.3	R	K	A17
C/2018 KJ_3	2018 07 07.97699	19 33 35.02	+02 37 35.9	18.4	R	K	A17
C/2018 KJ_3	2018 07 07.98871	19 33 34.13	+02 37 32.3	18.7	R	K	A17
C/2018 KJ_3	2018 07 08.94671	19 32 24.88	+02 31 24.9	18.7	R	K	157
C/2018 KJ_3	2018 07 08.95408	19 32 24.31	+02 31 22.3	18.6	R	K	157
C/2018 KJ_3	2018 07 08.96146	19 32 23.81	+02 31 18.8	18.7	R	K	157
C/2018 KJ_3	2018 08 04.88556	18 59 22.58	−01 02 08.3	18.3	R	K	157
C/2018 KJ_3	2018 08 04.89099	18 59 22.17	−01 02 11.3	18.4	R	K	157
C/2018 KJ_3	2018 08 07.325685	18 56 31.395	−01 24 24.83	19.4	G	29	568
C/2018 KJ_3	2018 08 07.327559	18 56 31.264	−01 24 25.85	19.3	G	29	568
C/2018 KJ_3	2018 08 07.329428	18 56 31.132	−01 24 26.88	19.1	G	29	568
C/2018 KJ_3	2018 08 07.331302	18 56 31.003	−01 24 27.99	18.8	G	29	568
C/2018 KJ_3	2018 08 14.86328	18 48 05.86	−02 34 58.0	19.0	N		K77
C/2018 KJ_3	2018 08 14.87208	18 48 05.19	−02 35 04.9	19.0	N		K77
C/2018 KJ_3	2018 08 17.56295	18 45 14.61	−03 00 38.4				372
C/2018 KJ_3	2018 08 17.56727	18 45 14.27	−03 00 41.6				372
C/2018 KJ_3	2018 08 17.57103	18 45 14.08	−03 00 43.5	18.5	T		372
C/2018 KJ_3	2018 08 17.86363	18 44 55.92	−03 03 31.5	16.6	T	20	G40
C/2018 KJ_3	2018 08 17.88399	18 44 54.65	−03 03 42.4	18.3	N	9	G40
C/2018 KJ_3	2018 08 17.88513	18 44 54.57	−03 03 43.7	21.6	R		B96
C/2018 KJ_3	2018 08 17.88839	18 44 54.30	−03 03 44.8	20.0	R		B96
C/2018 KJ_3	2018 08 17.89035	18 44 54.21	−03 03 46.2	18.5	N	9	G40
C/2018 KJ_3	2018 08 17.89167	18 44 54.05	−03 03 45.6	18.1	R		B96
C/2018 KJ_3	2018 08 17.89970	18 44 53.63	−03 03 51.8	18.4	N	9	G40
C/2018 KJ_3	2018 08 17.94704	18 44 50.79	−03 04 18.5	16.7	T	20	G40
C/2018 KJ_3	2018 08 18.84881	18 43 55.00	−03 12 55.6	18.6	T	K	461
C/2018 KJ_3	2018 08 18.85517	18 43 54.72	−03 12 58.3	18.5		K	215
C/2018 KJ_3	2018 08 18.85587	18 43 54.57	−03 12 59.5	18.9	T	K	461

C/2018 KJ$_3$	2018 08 18.85788	18 43 54.52	−03 13 00.6	19.5		K 215
C/2018 KJ$_3$	2018 08 18.86176	18 43 54.19	−03 13 02.7	19.1		K 215
C/2018 KJ$_3$	2018 08 28.23595	18 34 58.39	−04 42 40.1	18.9	R	28 695
C/2018 KJ$_3$	2018 08 28.23943	18 34 58.19	−04 42 41.9	18.8	R	28 695
C/2018 KJ$_3$	2018 08 28.24291	18 34 58.01	−04 42 43.9	19.0	R	28 695
C/2018 KJ$_3$	2018 08 29.16509	18 34 09.71	−04 51 30.8	19.0	R	28 695
C/2018 KJ$_3$	2018 08 29.16961	18 34 09.48	−04 51 33.3	21.4	R	28 695
C/2018 KJ$_3$	2018 08 29.17413	18 34 09.24	−04 51 36.0			28 695

P/2018 L1 (PANSTARRS)

P/2018 L1	2018 05 18.22708	13 07 03.51	−21 35 34.7			G96
P/2018 L1	2018 05 18.23240	13 07 03.41	−21 35 32.6	18.8	G	G96
P/2018 L1	2018 05 18.23772	13 07 03.26	−21 35 29.0	19.0	G	G96
P/2018 L1	2018 05 18.24304	13 07 03.09	−21 35 26.2	19.2	G	G96
P/2018 L1	2018 06 03.28457	13 04 11.558	−19 27 54.11	20.0	w	F51
P/2018 L1	2018 06 03.29557	13 04 11.563	−19 27 49.46	19.9	w	F51
P/2018 L1	2018 06 03.30658	13 04 11.579	−19 27 44.76	20.0	w	F51
P/2018 L1	2018 06 04.12843	13 04 15.47	−19 22 02.0	18.9	G	K H36
P/2018 L1	2018 06 04.13618	13 04 15.55	−19 21 58.3	18.8	G	K H36
P/2018 L1	2018 06 04.15860	13 04 15.64	−19 21 50.3	19.0	G	I52
P/2018 L1	2018 06 04.16031	13 04 15.53	−19 21 48.5	18.5	G	K H36
P/2018 L1	2018 06 04.16663	13 04 15.73	−19 21 45.8	19.4	G	I52
P/2018 L1	2018 06 04.17486	13 04 15.68	−19 21 42.5	19.0	G	I52
P/2018 L1	2018 06 04.18321	13 04 15.77	−19 21 39.2	19.2	G	I52
P/2018 L1	2018 06 04.48975	13 04 17.42	−19 19 27.3			1 Q62
P/2018 L1	2018 06 04.49293	13 04 17.44	−19 19 26.0			1 Q62
P/2018 L1	2018 06 04.49615	13 04 17.46	−19 19 24.7	18.8	w	1 Q62
P/2018 L1	2018 06 04.91259	13 04 20.24	−19 16 38.9	19.1	V	9 G40
P/2018 L1	2018 06 04.92407	13 04 20.33	−19 16 34.5	19.2	V	9 G40
P/2018 L1	2018 06 04.93774	13 04 20.34	−19 16 28.5	19.1	V	9 G40
P/2018 L1	2018 06 04.94360	13 04 20.42	−19 16 26.5	19.1	G	17G40
P/2018 L1	2018 06 04.94694	13 04 20.42	−19 16 25.1	19.2	G	17G40
P/2018 L1	2018 06 05.23814	13 04 22.44	−19 14 27.1	19.2	R	H 691
P/2018 L1	2018 06 05.24178	13 04 22.49	−19 14 25.7	19.4	R	H 691
P/2018 L1	2018 06 05.24541	13 04 22.56	−19 14 24.2	19.2	R	H 691
P/2018 L1	2018 06 05.332582	13 04 23.18	−19 13 47.2	19.7	R	9 F65
P/2018 L1	2018 06 05.334846	13 04 23.19	−19 13 46.7	19.8	R	9 F65
P/2018 L1	2018 06 05.337109	13 04 23.18	−19 13 45.4	19.6	R	9 F65
P/2018 L1	2018 06 05.339373	13 04 23.18	−19 13 44.4	19.6	R	9 F65
P/2018 L1	2018 06 05.341638	13 04 23.22	−19 13 43.7	19.6	R	9 F65
P/2018 L1	2018 06 05.343902	13 04 23.23	−19 13 42.8	19.7	R	9 F65
P/2018 L1	2018 06 05.346165	13 04 23.26	−19 13 41.5	19.6	R	9 F65
P/2018 L1	2018 06 05.348429	13 04 23.28	−19 13 41.5	19.6	R	9 F65
P/2018 L1	2018 06 06.16254	13 04 30.34	−19 08 16.7	19.1	R	H 691
P/2018 L1	2018 06 06.17192	13 04 30.36	−19 08 12.9	19.3	R	H 691
P/2018 L1	2018 06 06.18125	13 04 30.45	−19 08 09.0	19.4	R	H 691
P/2018 L1	2018 06 06.341789	13 04 31.774	−19 07 04.44	19.72	G	28 568
P/2018 L1	2018 06 06.342965	13 04 31.781	−19 07 03.97	19.71	G	28 568
P/2018 L1	2018 06 06.344140	13 04 31.790	−19 07 03.48	19.71	G	28 568
P/2018 L1	2018 06 07.19840	13 04 40.65	−19 01 30.9	18.6	G	I52
P/2018 L1	2018 06 07.20688	13 04 40.74	−19 01 27.4	19.2	G	I52
P/2018 L1	2018 06 07.22756	13 04 41.02	−19 01 19.6	18.8	G	I52
P/2018 L1	2018 06 07.93637	13 04 49.34	−18 56 47.8	19.1	G	17G40
P/2018 L1	2018 06 07.94323	13 04 49.40	−18 56 45.1	19.0	G	17G40
P/2018 L1	2018 06 16.32952	13 07 38.10	−18 09 29.3	19.2	N	474
P/2018 L1	2018 06 16.33164	13 07 38.14	−18 09 28.9	19.6	N	474
P/2018 L1	2018 06 16.33688	13 07 38.29	−18 09 27.5	19.3	N	474
P/2018 L1	2018 06 20.89640	13 10 02.75	−17 49 10.8	18.4		K 215
P/2018 L1	2018 06 20.89897	13 10 02.77	−17 49 10.4	18.7		K 215
P/2018 L1	2018 06 20.90153	13 10 02.93	−17 49 09.6	18.5		K 215
P/2018 L1	2018 07 13.44964	13 30 10.69	−17 02 21.6			1 Q62
P/2018 L1	2018 07 13.45127	13 30 10.80	−17 02 21.5			1 Q62
P/2018 L1	2018 07 13.45291	13 30 10.91	−17 02 21.2	18.5	w	1 Q62
P/2018 L1	2018 07 18.33255	13 36 09.74	−17 03 07.6	19.6	N	K 474
P/2018 L1	2018 07 18.33466	13 36 09.93	−17 03 07.5	19.0	N	K 474
P/2018 L1	2018 07 18.33677	13 36 10.05	−17 03 07.4	19.5	N	K 474
P/2018 L1	2018 08 09.36393	14 09 10.14	−17 43 15.8	18.8	G	K 474
P/2018 L1	2018 08 09.36604	14 09 10.39	−17 43 16.7	19.4	G	K 474
P/2018 L1	2018 08 09.37237	14 09 11.01	−17 43 18.3	19.9	G	K 474
P/2018 L1	2018 08 11.31690	14 12 31.69	−17 49 04.5	19.6	G	474
P/2018 L1	2018 08 11.31889	14 12 31.87	−17 49 04.8	19.9	G	474
P/2018 L1	2018 08 11.32088	14 12 32.10	−17 49 05.1	19.8	G	474
P/2018 L1	2018 08 11.32485	14 12 32.52	−17 49 05.8	19.1	G	474
P/2018 L1	2018 09 06.32941	15 03 00.49	−19 23 04.8	19.6	R	474
P/2018 L1	2018 09 06.33152	15 03 00.76	−19 23 05.4	19.4	R	474
P/2018 L1	2018 09 06.33464	15 03 01.17	−19 23 06.1	18.8	R	474
P/2018 L1	2018 09 06.33861	15 03 01.70	−19 23 07.2	18.9	R	474

C/2018 L2 (ATLAS)

C/2018 L2	2018 06 04.07425	13 57 07.92	−43 20 39.2	15.8	R	X74
C/2018 L2	2018 06 04.08370	13 57 07.29	−43 20 22.6	15.3	R	X74
C/2018 L2	2018 06 06.33235	13 55 17.30	−42 18 14.0	15.6	o	T08
C/2018 L2	2018 06 06.33604	13 55 17.11	−42 18 08.0	15.6	o	T08
C/2018 L2	2018 06 06.34020	13 55 16.90	−42 18 00.9	15.6	o	T08
C/2018 L2	2018 06 06.34392	13 55 16.73	−42 17 54.9	15.7	o	T08
C/2018 L2	2018 06 06.34805	13 55 16.51	−42 17 47.8	15.6	o	T08
C/2018 L2	2018 06 06.35176	13 55 16.31	−42 17 41.3	16.3	o	T08
C/2018 L2	2018 06 06.35592	13 55 16.13	−42 17 34.5	15.6	o	T08
C/2018 L2	2018 06 06.35961	13 55 15.98	−42 17 28.3	15.7	o	T08
C/2018 L2	2018 06 06.96933	13 54 48.17	−42 00 20.6	16.2	V	K I39
C/2018 L2	2018 06 06.98032	13 54 47.74	−42 00 03.6	16.0	V	3W88
C/2018 L2	2018 06 06.98573	13 54 47.47	−41 59 54.6	15.9	V	3W88
C/2018 L2	2018 06 06.98774	13 54 47.32	−41 59 51.6	16.2	V	K I39
C/2018 L2	2018 06 06.99050	13 54 47.27	−41 59 46.7	16.5	G	32 807
C/2018 L2	2018 06 06.99136	13 54 47.19	−41 59 44.9	16.8	G	32 807
C/2018 L2	2018 06 06.99194	13 54 47.18	−41 59 44.2	16.1	V	3W88
C/2018 L2	2018 06 06.99224	13 54 47.15	−41 59 43.6	16.8	G	32 807
C/2018 L2	2018 06 06.99311	13 54 47.15	−41 59 42.3	16.4	G	32 807
C/2018 L2	2018 06 07.00251	13 54 46.69	−41 59 27.3	16.0	V	K I39
C/2018 L2	2018 06 07.01829	13 54 45.89	−41 59 01.1	16.6	R	Y00
C/2018 L2	2018 06 07.02715	13 54 45.52	−41 58 44.9	15.7	R	K I47
C/2018 L2	2018 06 07.02970	13 54 45.39	−41 58 40.4	15.7	R	K I47
C/2018 L2	2018 06 07.03225	13 54 45.29	−41 58 35.6	15.7	R	K I47
C/2018 L2	2018 06 07.03834	13 54 44.98	−41 58 26.0	15.8	V	K I39
C/2018 L2	2018 06 07.04040	13 54 44.82	−41 58 23.7	16.6	R	K Y00
C/2018 L2	2018 06 07.04182	13 54 44.70	−41 58 21.3	16.6	R	K Y00

C/2018 L2	2018 06 07.04517	13 54 44.53	−41 58 15.8	16.0	R	K	Y00
C/2018 L2	2018 06 07.05406	13 54 44.26	−41 57 59.9	16.0	V	K	I39
C/2018 L2	2018 06 07.08954	13 54 42.62	−41 56 59.7	16.1	V	K	I39
C/2018 L2	2018 06 07.10244	13 54 41.96	−41 56 38.1	15.9	V	K	I39
C/2018 L2	2018 06 07.11903	13 54 41.20	−41 56 10.4	16.1	V	K	I39
C/2018 L2	2018 06 07.36094	13 54 30.79	−41 49 23.1	17.0	V		E23
C/2018 L2	2018 06 07.36719	13 54 30.49	−41 49 12.4	17.1	V		E23
C/2018 L2	2018 06 07.37413	13 54 30.20	−41 49 01.1	17.1	V		E23
C/2018 L2	2018 06 07.38038	13 54 29.85	−41 48 50.6	16.6	V		E23
C/2018 L2	2018 06 07.61844	13 54 18.95	−41 42 08.1	16.6	V	30	Q62
C/2018 L2	2018 06 07.62305	13 54 18.72	−41 42 00.6	16.6	V	30	Q62
C/2018 L2	2018 06 07.62769	13 54 18.53	−41 41 52.8	16.5	V	30	Q62
C/2018 L2	2018 06 07.64032	13 54 17.96	−41 41 30.8	16.3	V	30	Q62
C/2018 L2	2018 06 07.65719	13 54 17.23	−41 41 02.3	16.7		2	Q62
C/2018 L2	2018 06 07.65872	13 54 17.24	−41 40 59.5	16.3		2	Q62
C/2018 L2	2018 06 07.66022	13 54 17.14	−41 40 57.0	16.6		2	Q62
C/2018 L2	2018 06 07.66190	13 54 17.06	−41 40 54.0	16.6		2	Q62
C/2018 L2	2018 06 08.05379	13 54 00.45	−41 29 53.7	15.7	V	K	I39
C/2018 L2	2018 06 08.07026	13 53 59.69	−41 29 26.3	16.0	V	K	I39
C/2018 L2	2018 06 08.08673	13 53 59.00	−41 28 58.2	16.0	V	K	I39
C/2018 L2	2018 06 08.36221	13 53 47.45	−41 21 11.1	16.9	G		474
C/2018 L2	2018 06 08.36621	13 53 47.27	−41 21 04.5	16.4	G		474
C/2018 L2	2018 06 08.37021	13 53 47.10	−41 20 57.7	16.4	G		474
C/2018 L2	2018 06 10.33774	13 52 28.73	−40 25 12.7	15.6	o		T08
C/2018 L2	2018 06 10.35345	13 52 28.08	−40 24 45.7	15.6	o		T08
C/2018 L2	2018 06 10.36132	13 52 27.77	−40 24 32.1	15.6	o		T08
C/2018 L2	2018 06 11.48542	13 51 47.00	−39 52 23.1			1	Q62
C/2018 L2	2018 06 11.48706	13 51 46.92	−39 52 20.1			1	Q62
C/2018 L2	2018 06 11.48870	13 51 46.87	−39 52 17.3	15.1	w	1	Q62
C/2018 L2	2018 06 12.50451	13 51 12.40	−39 23 14.0	15.7	T		372
C/2018 L2	2018 06 12.50920	13 51 12.24	−39 23 06.0				372
C/2018 L2	2018 06 12.51528	13 51 12.02	−39 22 55.6				372
C/2018 L2	2018 06 14.31978	13 50 16.55	−38 31 01.9	15.5	o		T05
C/2018 L2	2018 06 14.33105	13 50 16.21	−38 30 42.5	15.5	o		T05
C/2018 L2	2018 06 14.33250	13 50 16.22	−38 30 39.7	15.6	o		T08
C/2018 L2	2018 06 14.34035	13 50 15.96	−38 30 26.1	15.5	o		T08
C/2018 L2	2018 06 14.34231	13 50 15.87	−38 30 22.8	15.6	o		T05
C/2018 L2	2018 06 14.34820	13 50 15.74	−38 30 12.5	15.6	o		T08
C/2018 L2	2018 06 14.35262	13 50 15.55	−38 30 04.9	15.5	o		T05
C/2018 L2	2018 06 14.35605	13 50 15.48	−38 29 59.1	15.6	o		T08
C/2018 L2	2018 06 16.33258	13 49 23.12	−37 32 59.7	16.0	c		T05
C/2018 L2	2018 06 16.34039	13 49 22.90	−37 32 45.9	16.0	c		T05
C/2018 L2	2018 06 16.34822	13 49 22.71	−37 32 32.4	16.0	c		T05
C/2018 L2	2018 06 16.35603	13 49 22.51	−37 32 18.9	16.0	c		T05
C/2018 L2	2018 06 16.96032	13 49 08.49	−37 14 49.2	15.9	N		W96
C/2018 L2	2018 06 16.98876	13 49 07.76	−37 14 00.1	16.0	N		W96
C/2018 L2	2018 06 17.02351	13 49 06.88	−37 13 00.1	15.8	N		W96
C/2018 L2	2018 06 18.32854	13 48 38.83	−36 35 24.4	15.6	o		T08
C/2018 L2	2018 06 18.33594	13 48 38.68	−36 35 11.5	15.6	o		T08
C/2018 L2	2018 06 18.34379	13 48 38.49	−36 34 57.7	15.5	o		T08
C/2018 L2	2018 06 18.35166	13 48 38.28	−36 34 43.9	16.0	o		T08
C/2018 L2	2018 06 21.47690	13 47 46.37	−35 04 50.3				Q11
C/2018 L2	2018 06 21.48118	13 47 46.29	−35 04 42.8				Q11
C/2018 L2	2018 06 21.48331	13 47 46.25	−35 04 39.0	15.3	T		Q11
C/2018 L2	2018 06 22.32172	13 47 35.75	−34 40 38.1	16.1	o		T08
C/2018 L2	2018 06 22.32913	13 47 35.68	−34 40 25.6	15.6	o		T08
C/2018 L2	2018 06 22.33698	13 47 35.57	−34 40 12.3	15.6	o		T08
C/2018 L2	2018 06 22.46420	13 47 34.19	−34 36 34.1				Q11
C/2018 L2	2018 06 22.47277	13 47 34.08	−34 36 19.5				Q11
C/2018 L2	2018 06 22.47705	13 47 34.03	−34 36 12.2	14.7	T		Q11
C/2018 L2	2018 06 30.32012	13 47 06.20	−30 55 41.2	16.0	o		T08
C/2018 L2	2018 06 30.32870	13 47 06.22	−30 55 26.7	16.0	o		T08
C/2018 L2	2018 06 30.33775	13 47 06.30	−30 55 12.1	15.6	o		T08
C/2018 L2	2018 06 30.34545	13 47 06.33	−30 54 59.5	15.7	o		T08
C/2018 L2	2018 06 30.37170	13 47 06.60	−30 54 12.6	15.9	V		Q68
C/2018 L2	2018 06 30.39933	13 47 06.68	−30 53 26.5	15.8	V		Q68
C/2018 L2	2018 07 04.36848	13 47 37.36	−29 05 47.7	15.8	N		Q68
C/2018 L2	2018 07 04.39659	13 47 37.63	−29 05 02.8	15.8	N		Q68
C/2018 L2	2018 07 05.46135	13 47 50.48	−28 36 43.2	15.6	N		Q68
C/2018 L2	2018 07 05.48887	13 47 50.81	−28 35 59.2	15.7	N		Q68
C/2018 L2	2018 07 06.38516	13 48 03.49	−28 12 20.9	15.8	R	¡	Q62
C/2018 L2	2018 07 06.40060	13 48 03.69	−28 11 56.6	15.7	R	¡	Q62
C/2018 L2	2018 07 06.90779	13 48 11.31	−27 58 43.5	15.5	N		J22
C/2018 L2	2018 07 06.91557	13 48 11.42	−27 58 31.9	15.5	N		J22
C/2018 L2	2018 07 08.03500	13 48 30.09	−27 29 23.8	16.9	R		X74
C/2018 L2	2018 07 08.04453	13 48 30.13	−27 29 06.9	16.4	R		X74
C/2018 L2	2018 07 08.05403	13 48 30.34	−27 28 51.7	16.6	R		X74
C/2018 L2	2018 07 08.52845	13 48 38.71	−27 16 35.9	15.8	N		Q68
C/2018 L2	2018 07 08.54628	13 48 39.07	−27 16 07.5	15.9	N		Q68
C/2018 L2	2018 07 09.52290	13 48 57.75	−26 51 05.3	15.8	N		Q68
C/2018 L2	2018 07 09.54757	13 48 58.24	−26 50 27.4	15.8	N		Q68
C/2018 L2	2018 07 10.28695	13 49 13.59	−26 31 44.7	15.8	c		T05
C/2018 L2	2018 07 10.29064	13 49 13.68	−26 31 39.1	15.8	c		T05
C/2018 L2	2018 07 10.29490	13 49 13.75	−26 31 32.5	15.9	c		T05
C/2018 L2	2018 07 10.29810	13 49 13.84	−26 31 27.8	15.8	c		T05
C/2018 L2	2018 07 10.29856	13 49 13.82	−26 31 27.1	15.9	c		T05
C/2018 L2	2018 07 10.30280	13 49 13.92	−26 31 20.5	15.8	c		T05
C/2018 L2	2018 07 10.30601	13 49 13.99	−26 31 15.6	15.9	c		T05
C/2018 L2	2018 07 10.30647	13 49 13.99	−26 31 15.1	15.8	c		T05
C/2018 L2	2018 07 10.31066	13 49 14.06	−26 31 08.4	15.8	c		T05
C/2018 L2	2018 07 10.31397	13 49 14.14	−26 31 03.5	15.9	c		T05
C/2018 L2	2018 07 10.31442	13 49 14.14	−26 31 02.8	15.8	c		T05
C/2018 L2	2018 07 10.32180	13 49 14.28	−26 30 51.6	15.9	c		T05
C/2018 L2	2018 07 11.00285	13 49 29.23	−26 13 36.4	15.9	R	13	W88
C/2018 L2	2018 07 11.00454	13 49 29.26	−26 13 34.0	16.0	R	13	W88
C/2018 L2	2018 07 12.28034	13 49 59.01	−25 41 45.9	15.5	o		T08
C/2018 L2	2018 07 12.28781	13 49 59.17	−25 41 34.7	15.5	o		T08
C/2018 L2	2018 07 12.29520	13 49 59.34	−25 41 23.7	15.5	o		T08
C/2018 L2	2018 07 12.30258	13 49 59.51	−25 41 12.6	15.4	o		T08
C/2018 L2	2018 07 12.34768	13 50 00.77	−25 40 01.8	15.8	N		Q68
C/2018 L2	2018 07 12.36230	13 50 01.11	−25 39 40.0	15.8	N		Q68
C/2018 L2	2018 07 12.54066	13 50 05.18	−25 35 13.5	16.4	G		Q38
C/2018 L2	2018 07 12.54359	13 50 05.14	−25 35 10.1	16.6	G		Q38
C/2018 L2	2018 07 12.54603	13 50 05.36	−25 35 05.2	16.3	G		Q38
C/2018 L2	2018 07 12.54896	13 50 05.34	−25 35 01.0	16.3	G		Q38
C/2018 L2	2018 07 13.44416	13 50 28.33	−25 12 59.3			1	Q62

C/2018 L2	2018 07 13.44629	13 50 28.39	−25 12 56.0	14.2	w	1	Q62
C/2018 L2	2018 07 13.47727	13 50 29.34	−25 12 15.1	14.8	T		349
C/2018 L2	2018 07 13.47764	13 50 29.20	−25 12 14.2			K	D81
C/2018 L2	2018 07 13.48326	13 50 29.47	−25 12 06.5				349
C/2018 L2	2018 07 13.48386	13 50 29.45	−25 12 04.1			K	D81
C/2018 L2	2018 07 13.49007	13 50 29.60	−25 11 57.3	15.6	T	K	D81
C/2018 L2	2018 07 13.89575	13 50 40.30	−25 02 00.5	15.6	N		J22
C/2018 L2	2018 07 13.89968	13 50 40.37	−25 01 54.6	15.6	N		J22
C/2018 L2	2018 07 13.90361	13 50 40.49	−25 01 49.2	15.6	N		J22
C/2018 L2	2018 07 14.42260	13 50 54.80	−24 49 08.8	15.7	N		Q68
C/2018 L2	2018 07 14.43706	13 50 55.17	−24 48 47.3	15.7	N		Q68
C/2018 L2	2018 07 15.43118	13 51 23.44	−24 24 50.0	15.7	N		Q68
C/2018 L2	2018 07 15.44458	13 51 23.71	−24 24 29.3	15.7	N		Q68
C/2018 L2	2018 07 16.35361	13 51 50.99	−24 02 49.1	15.7	N		Q68
C/2018 L2	2018 07 16.36793	13 51 51.38	−24 02 28.5	15.7	N		Q68
C/2018 L2	2018 07 17.39278	13 52 23.42	−23 38 18.1	15.7	N		Q68
C/2018 L2	2018 07 17.42535	13 52 24.45	−23 37 32.4	15.8	N		Q68
C/2018 L2	2018 07 18.37954	13 52 55.73	−23 15 18.3	15.7	N		Q68
C/2018 L2	2018 07 18.39367	13 52 56.18	−23 14 58.7	15.7	N		Q68
C/2018 L2	2018 07 19.47132	13 53 32.92	−22 50 09.7	15.6	N		Q68
C/2018 L2	2018 07 19.48016	13 53 33.22	−22 49 57.4	15.5	N		Q68
C/2018 L2	2018 07 20.26678	13 54 01.30	−22 32 07.0	15.7	o		T08
C/2018 L2	2018 07 20.27049	13 54 01.27	−22 32 01.9	16.2	o		T08
C/2018 L2	2018 07 20.27467	13 54 01.46	−22 31 55.8	15.8	o		T08
C/2018 L2	2018 07 20.29001	13 54 02.13	−22 31 35.4	15.8	o		T08
C/2018 L2	2018 07 22.26673	13 55 16.04	−21 47 22.1	15.3	o		T05
C/2018 L2	2018 07 22.27465	13 55 16.35	−21 47 11.9	15.4	o		T05
C/2018 L2	2018 07 22.28204	13 55 16.61	−21 47 01.8	15.4	o		T05
C/2018 L2	2018 07 22.28942	13 55 16.87	−21 46 52.0	15.4	o		T05
C/2018 L2	2018 07 26.29178	13 58 02.34	−20 20 36.9	15.3	o		T05
C/2018 L2	2018 07 26.29971	13 58 02.67	−20 20 26.9	15.5	o		T05
C/2018 L2	2018 07 26.30758	13 58 02.99	−20 20 16.9	15.4	o		T05
C/2018 L2	2018 07 26.31540	13 58 03.32	−20 20 07.1	15.4	o		T05
C/2018 L2	2018 07 27.30440	13 58 47.34	−19 59 28.7	15.5	o		T05
C/2018 L2	2018 07 27.31350	13 58 47.75	−19 59 17.6	15.4	o		T05
C/2018 L2	2018 07 27.32193	13 58 48.13	−19 59 07.3	15.3	o		T05
C/2018 L2	2018 07 27.33085	13 58 48.51	−19 58 56.0	15.4	o		T05
C/2018 L2	2018 07 28.26988	13 59 31.50	−19 39 35.8	15.4	o		T08
C/2018 L2	2018 07 28.28032	13 59 31.96	−19 39 23.0	15.4	o		T08
C/2018 L2	2018 07 28.29178	13 59 32.49	−19 39 08.8	15.3	o		T08
C/2018 L2	2018 07 28.30283	13 59 32.99	−19 38 55.2	15.4	o		T08
C/2018 L2	2018 07 29.44874	14 00 26.86	−19 15 38.9	14.6	T		349
C/2018 L2	2018 07 29.45087	14 00 26.95	−19 15 36.5				349
C/2018 L2	2018 07 31.89962	14 02 27.01	−18 27 01.0	15.6	N	9	G40
C/2018 L2	2018 07 31.90307	14 02 27.21	−18 26 57.1	15.6	N	9	G40
C/2018 L2	2018 08 01.25302	14 02 45.08	−18 20 08.7	15.4	o		T08
C/2018 L2	2018 08 01.26043	14 02 45.45	−18 20 00.0	15.3	o		T08
C/2018 L2	2018 08 01.26838	14 02 45.84	−18 19 50.7	15.4	o		T08
C/2018 L2	2018 08 01.27579	14 02 46.21	−18 19 41.9	15.3	o		T08
C/2018 L2	2018 08 02.29983	14 03 38.91	−17 59 56.7	15.4	o		T08
C/2018 L2	2018 08 02.30928	14 03 39.41	−17 59 45.3	15.3	o		T08
C/2018 L2	2018 08 02.31737	14 03 39.82	−17 59 36.2	15.1	o		T08
C/2018 L2	2018 08 02.32619	14 03 40.26	−17 59 26.3	14.9	o		T08
C/2018 L2	2018 08 03.26900	14 04 29.90	−17 41 29.7	15.7	c		T05
C/2018 L2	2018 08 03.27764	14 04 30.33	−17 41 19.6	15.7	c		T05
C/2018 L2	2018 08 03.28618	14 04 30.80	−17 41 10.2	15.7	c		T05
C/2018 L2	2018 08 03.29482	14 04 31.25	−17 41 00.2	15.7	c		T05
C/2018 L2	2018 08 04.49217	14 05 35.64	−17 18 33.0			K	367
C/2018 L2	2018 08 04.49501	14 05 35.79	−17 18 29.6	14.7	T	K	367
C/2018 L2	2018 08 08.26034	14 09 08.45	−16 10 09.2	15.6	c		T05
C/2018 L2	2018 08 08.27065	14 09 09.04	−16 09 58.3	15.6	c		T05
C/2018 L2	2018 08 08.28146	14 09 09.67	−16 09 47.0	15.7	c		T05
C/2018 L2	2018 08 08.29226	14 09 10.29	−16 09 35.2	15.6	c		T05
C/2018 L2	2018 08 09.42451	14 10 17.16	−15 49 38.3	16.3	G		Q38
C/2018 L2	2018 08 09.42802	14 10 17.31	−15 49 34.1	16.2	G		Q38
C/2018 L2	2018 08 09.43245	14 10 17.56	−15 49 30.3	16.2	G		Q38
C/2018 L2	2018 08 11.35009	14 12 13.83	−15 16 31.3	15.3	N		E89
C/2018 L2	2018 08 11.35497	14 12 14.18	−15 16 26.2	15.3	N		E89
C/2018 L2	2018 08 11.36052	14 12 14.50	−15 16 20.8	15.3	N		E89
C/2018 L2	2018 08 11.37492	14 12 15.46	−15 16 06.4	15.3	N		E89
C/2018 L2	2018 08 13.34677	14 14 18.81	−14 43 04.0	15.5	N		Q68
C/2018 L2	2018 08 13.36373	14 14 20.04	−14 42 49.1	15.5	N		Q68
C/2018 L2	2018 08 14.23788	14 15 15.81	−14 28 28.2	15.3	o		T08
C/2018 L2	2018 08 14.24400	14 15 16.20	−14 28 22.3	15.2	o		T08
C/2018 L2	2018 08 14.25291	14 15 16.77	−14 28 13.6	15.2	o		T08
C/2018 L2	2018 08 14.26317	14 15 17.39	−14 28 03.3	15.3	o		T08
C/2018 L2	2018 08 14.34871	14 15 22.93	−14 26 35.6	14.9	N		Q68
C/2018 L2	2018 08 14.36471	14 15 23.99	−14 26 19.9	15.4	N		Q68
C/2018 L2	2018 08 16.35286	14 17 34.20	−13 54 17.5	14.9	N		Q68
C/2018 L2	2018 08 16.36411	14 17 34.83	−13 54 06.7	15.2	N		Q68
C/2018 L2	2018 08 17.38944	14 18 43.40	−13 37 54.9	15.5	N		Q68
C/2018 L2	2018 08 17.40720	14 18 44.55	−13 37 38.0	15.4	N		Q68
C/2018 L2	2018 08 18.23515	14 19 40.63	−13 24 46.1	15.2	o		T08
C/2018 L2	2018 08 18.24072	14 19 41.00	−13 24 40.7	15.1	o		T08
C/2018 L2	2018 08 18.24871	14 19 41.52	−13 24 33.4	15.1	o		T08
C/2018 L2	2018 08 18.25911	14 19 42.26	−13 24 23.5	15.1	o		T08
C/2018 L2	2018 08 20.76906	14 22 35.99	−12 46 00.5	15.1	N	K	585
C/2018 L2	2018 08 20.76980	14 22 36.05	−12 45 59.4	15.0	N	K	585
C/2018 L2	2018 08 20.77052	14 22 36.13	−12 45 58.8	15.0	N	K	585
C/2018 L2	2018 08 20.77123	14 22 36.21	−12 45 57.9	15.0	N	K	585
C/2018 L2	2018 08 20.77195	14 22 36.24	−12 45 57.4	14.9	N	K	585
C/2018 L2	2018 08 20.77266	14 22 36.30	−12 45 56.1	15.0	N	K	585
C/2018 L2	2018 08 20.77337	14 22 36.37	−12 45 55.1	15.0	N	K	585
C/2018 L2	2018 08 20.77480	14 22 36.48	−12 45 54.6	15.3	N	K	585
C/2018 L2	2018 08 20.86921	14 22 42.99	−12 44 30.5	15.1	N		Z39
C/2018 L2	2018 08 20.87271	14 22 43.24	−12 44 26.9	14.9	N		Z39
C/2018 L2	2018 08 20.87619	14 22 43.46	−12 44 24.5	14.9	N		Z39
C/2018 L2	2018 08 26.31465	14 29 19.10	−11 25 08.8	14.9	N		E89
C/2018 L2	2018 08 26.31917	14 29 19.35	−11 25 04.6	15.1	N		E89
C/2018 L2	2018 08 26.32351	14 29 19.73	−11 25 01.4	15.1	N		E89
C/2018 L2	2018 08 29.83112	14 33 47.83	−10 36 32.4	14.8	N	K	L27
C/2018 L2	2018 08 29.83812	14 33 48.41	−10 36 26.9	15.1	N	K	L27
C/2018 L2	2018 08 29.86614	14 33 50.46	−10 36 03.5	15.4	N	9	G40
C/2018 L2	2018 08 29.87182	14 33 50.89	−10 35 59.0	15.4	N	9	G40
C/2018 L2	2018 08 29.87759	14 33 51.33	−10 35 54.5	15.3	N	9	G40
C/2018 L2	2018 08 30.22620	14 34 18.69	−10 31 11.9	15.0	o		T08

C/2018 L2	2018 08 30.23095	14 34 18.98	−10 31 07.3	15.7	o	T08
C/2018 L2	2018 08 30.23424	14 34 19.30	−10 31 04.8	15.0	o	T08
C/2018 L2	2018 08 30.23801	14 34 19.59	−10 31 02.3	15.0	o	T08
C/2018 L2	2018 08 30.24267	14 34 19.95	−10 30 58.1	15.0	o	T08
C/2018 L2	2018 08 30.24745	14 34 20.34	−10 30 54.6	14.9	o	T08
C/2018 L2	2018 08 30.25254	14 34 20.70	−10 30 50.1	15.0	o	T08
C/2018 L2	2018 08 30.26238	14 34 21.47	−10 30 42.0	15.0	o	T08
C/2018 L2	2018 09 01.81366	14 37 43.57	−09 56 40.0	15.2	N	K L27
C/2018 L2	2018 09 01.82512	14 37 44.48	−09 56 31.4	15.4	N	K L27
C/2018 L2	2018 09 07.41352	14 45 24.78	−08 44 47.4	15.7	G	Q38
C/2018 L2	2018 09 07.41547	14 45 25.04	−08 44 44.6	15.6	G	Q38
C/2018 L2	2018 09 07.41792	14 45 25.25	−08 44 40.5	15.6	G	Q38
C/2018 L2	2018 09 07.42035	14 45 25.35	−08 44 41.4	15.7	G	Q38
C/2018 L2	2018 09 08.80013	14 47 22.96	−08 27 36.5	15.5	N	K77
C/2018 L2	2018 09 08.80095	14 47 22.92	−08 27 35.9	15.6	N	K77
C/2018 L2	2018 09 09.22560	14 47 59.39	−08 22 20.1	14.8	o	T05
C/2018 L2	2018 09 09.23254	14 47 59.99	−08 22 14.8	14.8	o	T05
C/2018 L2	2018 09 09.24214	14 48 00.80	−08 22 07.7	14.7	o	T05
C/2018 L2	2018 09 11.22619	14 50 52.86	−07 57 52.8	14.7	o	T08
C/2018 L2	2018 09 11.23481	14 50 53.59	−07 57 46.4	14.8	o	T08
C/2018 L2	2018 09 11.24136	14 50 54.17	−07 57 41.4	14.7	o	T08
C/2018 L2	2018 09 17.21543	14 59 49.53	−06 46 38.1	15.5	o	T05
C/2018 L2	2018 09 17.22075	14 59 50.07	−06 46 34.6	14.6	o	T05
C/2018 L2	2018 09 17.22840	14 59 50.76	−06 46 29.2	14.6	o	T05
C/2018 L2	2018 09 17.23842	14 59 51.68	−06 46 22.2	14.6	o	T05
C/2018 L2	2018 09 19.21695	15 02 54.78	−06 23 23.7	14.7	o	T08
C/2018 L2	2018 09 19.22228	15 02 55.30	−06 23 19.5	14.7	o	T08
C/2018 L2	2018 09 19.22329	15 02 55.37	−06 23 19.1	14.8	o	T08
C/2018 L2	2018 09 19.23095	15 02 56.07	−06 23 13.5	14.7	o	T08
C/2018 L2	2018 09 19.24093	15 02 57.00	−06 23 07.1	14.7	o	T08
C/2018 L2	2018 09 19.25088	15 02 57.90	−06 23 00.4	14.7	o	T08

P/2018 L4 (PANSTARRS)

P/2018 L4	2018 05 19.31652	17 29 39.85	+27 09 39.2	20.5	r	I41
P/2018 L4	2018 05 19.34098	17 29 39.86	+27 09 50.9	20.6	r	I41
P/2018 L4	2018 05 19.37435	17 29 39.75	+27 10 09.7	21.0	r	I41
P/2018 L4	2018 05 19.44356	17 29 40.02	+27 10 47.5	20.9	r	I41
P/2018 L4	2018 06 04.526150	17 27 59.879	+28 27 29.38	19.9	G	F51
P/2018 L4	2018 06 05.384092	17 27 47.864	+28 27 22.90	21.4	G	F52
P/2018 L4	2018 06 05.394063	17 27 47.644	+28 27 22.96			F52
P/2018 L4	2018 06 05.403976	17 27 47.441	+28 27 22.94	20.9	G	F52
P/2018 L4	2018 06 08.50985	17 26 57.146	+28 22 56.71	21.0	i	F51
P/2018 L4	2018 06 08.52162	17 26 56.920	+28 22 54.89	21.0	i	F51
P/2018 L4	2018 06 08.53334	17 26 56.700	+28 22 52.94	21.0	i	F51
P/2018 L4	2018 06 08.54509	17 26 56.416	+28 22 50.80	20.9	i	F51
P/2018 L4	2018 06 10.418264	17 26 24.328	+28 16 59.01	20.77	G	28 568
P/2018 L4	2018 06 10.419439	17 26 24.303	+28 16 58.76	20.83	G	28 568
P/2018 L4	2018 06 10.420616	17 26 24.279	+28 16 58.52	20.75	G	28 568
P/2018 L4	2018 06 11.18874	17 26 10.77	+28 13 47.8			I52
P/2018 L4	2018 06 11.20609	17 26 10.49	+28 13 43.5			I52
P/2018 L4	2018 06 11.21472	17 26 10.26	+28 13 41.4	21.3	G	I52
P/2018 L4	2018 06 11.22930	17 26 09.93	+28 13 38.4	21.1	G	V06
P/2018 L4	2018 06 11.24242	17 26 09.79	+28 13 35.1			V06
P/2018 L4	2018 06 11.25136	17 26 09.55	+28 13 32.6			V06
P/2018 L4	2018 06 11.26000	17 26 09.43	+28 13 30.1			V06
P/2018 L4	2018 06 11.31940	17 26 08.02	+28 13 15.5			K 711
P/2018 L4	2018 06 11.35238	17 26 07.28	+28 13 06.2			K 711
P/2018 L4	2018 06 11.35770	17 26 07.20	+28 13 04.7			K 711
P/2018 L4	2018 06 11.36308	17 26 07.04	+28 13 03.0			K 711
P/2018 L4	2018 06 11.36839	17 26 06.95	+28 13 02.2			K 711
P/2018 L4	2018 06 11.38360	17 26 06.76	+28 12 57.3			5 U69
P/2018 L4	2018 06 11.38803	17 26 06.67	+28 12 55.8	20.3	w	5 U69
P/2018 L4	2018 06 12.42803	17 25 47.50	+28 07 53.5			5 U69
P/2018 L4	2018 06 12.43193	17 25 47.45	+28 07 52.4			5 U69
P/2018 L4	2018 06 12.43583	17 25 47.39	+28 07 51.2	20.3	w	5 U69
P/2018 L4	2018 06 13.34916	17 25 30.76	+28 02 47.2	19.6	G	I52
P/2018 L4	2018 06 13.34965	17 25 30.75	+28 02 47.8	19.6	R	H 691
P/2018 L4	2018 06 13.35329	17 25 30.66	+28 02 46.3	19.8	R	H 691
P/2018 L4	2018 06 13.35693	17 25 30.59	+28 02 44.4	19.7	R	H 691
P/2018 L4	2018 06 13.35754	17 25 30.59	+28 02 44.6	19.7	G	I52
P/2018 L4	2018 06 13.37374	17 25 30.20	+28 02 38.8	19.6	G	I52
P/2018 L4	2018 06 14.29574	17 25 13.36	+27 56 53.8	19.2	G	I52
P/2018 L4	2018 06 14.31235	17 25 13.02	+27 56 47.8	19.8	G	I52
P/2018 L4	2018 06 14.32480	17 25 12.72	+27 56 43.0	19.6	G	I52
P/2018 L4	2018 06 14.95119	17 25 01.19	+27 52 23.8			K 587
P/2018 L4	2018 06 14.97817	17 25 00.59	+27 52 12.5			K 587
P/2018 L4	2018 06 14.98185	17 25 00.53	+27 52 11.0	20.2	G	K 587
P/2018 L4	2018 06 17.26873	17 24 18.40	+27 34 07.0	20.59	g	I41
P/2018 L4	2018 06 17.31630	17 24 17.33	+27 33 42.0	19.63	r	I41
P/2018 L4	2018 06 18.27509	17 23 59.98	+27 24 55.5	19.65	r	I41
P/2018 L4	2018 06 18.29374	17 23 59.62	+27 24 45.2	19.60	r	I41
P/2018 L4	2018 06 18.31594	17 23 59.09	+27 24 32.8	19.80	r	I41
P/2018 L4	2018 06 19.96025	17 23 29.84	+27 07 49.1	19.3	R	K A77
P/2018 L4	2018 06 19.99937	17 23 28.99	+27 07 23.7	19.7	R	K A77
P/2018 L4	2018 06 20.03845	17 23 28.23	+27 06 58.1	19.5	R	K A77
P/2018 L4	2018 06 20.31296	17 23 23.48	+27 03 59.9	19.5	G	703
P/2018 L4	2018 06 20.31893	17 23 23.44	+27 03 55.8	19.5	G	703
P/2018 L4	2018 06 20.32226	17 23 23.37	+27 03 53.6	19.2	G	I52
P/2018 L4	2018 06 20.32623	17 23 23.29	+27 03 51.2	19.1	G	I52
P/2018 L4	2018 06 20.33087	17 23 23.21	+27 03 48.2	19.2	G	703
P/2018 L4	2018 06 20.33091	17 23 23.16	+27 03 48.2	19.6	G	I52
P/2018 L4	2018 06 20.33681	17 23 23.04	+27 03 44.4	19.5	G	I52
P/2018 L4	2018 06 20.93173	17 23 13.00	+26 56 59.7	20.0	V	I L01
P/2018 L4	2018 06 20.94040	17 23 12.82	+26 56 53.9	18.7	R	K B96
P/2018 L4	2018 06 20.94857	17 23 12.74	+26 56 46.9	19.9	R	K B96
P/2018 L4	2018 06 20.95674	17 23 12.57	+26 56 42.2	19.7	R	K B96
P/2018 L4	2018 06 20.96409	17 23 12.40	+26 56 36.4	19.5	R	K B96
P/2018 L4	2018 06 20.96886	17 23 12.27	+26 56 34.2	20.1	V	K L01
P/2018 L4	2018 06 20.97213	17 23 12.14	+26 56 32.5	19.9	V	P L01
P/2018 L4	2018 06 21.26538	17 23 07.40	+26 53 09.0	19.4	G	I52
P/2018 L4	2018 06 21.26921	17 23 07.31	+26 53 06.7	19.7	G	I52
P/2018 L4	2018 06 21.27398	17 23 07.26	+26 53 02.9	19.3	G	I52
P/2018 L4	2018 06 21.27820	17 23 07.11	+26 53 00.6	19.6	G	I52
P/2018 L4	2018 06 22.26631	17 22 50.60	+26 41 02.8			G96
P/2018 L4	2018 06 22.27151	17 22 50.56	+26 40 58.3			G96
P/2018 L4	2018 06 22.27671	17 22 50.46	+26 40 53.7	19.3	G	G96

P/2018 L4	2018 06 22.28192	17 22 50.41	+26 40 49.7	19.7 G		G96
P/2018 L4	2018 06 22.35374	17 22 48.94	+26 39 55.5	19.3 G		I52
P/2018 L4	2018 06 22.35812	17 22 48.85	+26 39 52.1	19.3 G		I52
P/2018 L4	2018 06 22.36686	17 22 48.59	+26 39 45.7			I52
P/2018 L4	2018 06 22.37014	17 22 48.61	+26 39 43.5	19.4 R	K	291
P/2018 L4	2018 06 22.37763	17 22 48.45	+26 39 37.5	19.5 R	K	291
P/2018 L4	2018 06 22.38512	17 22 48.29	+26 39 32.2		K	291
P/2018 L4	2018 07 01.90542	17 20 50.80	+24 05 58.8		9	G40
P/2018 L4	2018 07 01.95057	17 20 50.34	+24 05 04.9	19.1 T	9	G40
P/2018 L4	2018 07 02.05443	17 20 49.01	+24 02 58.1	19.4 R	K	B96
P/2018 L4	2018 07 02.06260	17 20 49.05	+24 02 49.0	19.7 R	K	B96
P/2018 L4	2018 07 02.87764	17 20 43.73	+23 46 31.3	19.7 N	K	A71
P/2018 L4	2018 07 02.88481	17 20 43.67	+23 46 22.9	19.8 N	K	A71
P/2018 L4	2018 07 03.05317	17 20 42.38	+23 42 56.1	19.2 R	K	B96
P/2018 L4	2018 07 03.05889	17 20 42.32	+23 42 48.8	19.3 R	K	B96
P/2018 L4	2018 07 03.06379	17 20 42.29	+23 42 42.5	19.3 R	K	B96
P/2018 L4	2018 07 03.90294	17 20 37.98	+23 25 19.1	20.2 N	K	K77
P/2018 L4	2018 07 03.90583	17 20 38.00	+23 25 14.9	20.1 N	K	K77
P/2018 L4	2018 07 07.06813	17 20 29.04	+22 15 13.0	19.4 R	K	B96
P/2018 L4	2018 07 07.07467	17 20 28.92	+22 15 04.4	19.5 R	K	B96
P/2018 L4	2018 07 07.08121	17 20 28.97	+22 14 55.4	19.6 R	K	B96
P/2018 L4	2018 07 12.22194	17 20 48.44	+20 06 54.4	19.4 N	K	850
P/2018 L4	2018 07 12.24697	17 20 48.70	+20 06 13.8	19.4 N	K	850
P/2018 L4	2018 07 12.26646	17 20 48.76	+20 05 43.3	19.4 N	K	850
P/2018 L4	2018 07 12.87212	17 20 54.51	+19 49 31.3	19.9 N	K	A71
P/2018 L4	2018 07 12.88347	17 20 54.55	+19 49 13.2	19.7 N	K	A71
P/2018 L4	2018 07 12.98481	17 20 55.18	+19 46 27.8	19.8 T	K	461
P/2018 L4	2018 07 12.98969	17 20 55.25	+19 46 19.7	19.2 T	K	461
P/2018 L4	2018 07 12.99457	17 20 55.28	+19 46 11.5	19.3 T	K	461
P/2018 L4	2018 07 13.59861	17 21 01.52	+19 29 49.7	19.1 T	K	Q11
P/2018 L4	2018 07 13.60288	17 21 01.56	+19 29 42.7		K	Q11
P/2018 L4	2018 07 13.61179	17 21 01.61	+19 29 27.9		K	Q11
P/2018 L4	2018 07 13.91741	17 21 05.16	+19 21 00.6	19.2 V	K	215
P/2018 L4	2018 07 13.91998	17 21 05.17	+19 20 57.3	19.7 V	K	215
P/2018 L4	2018 07 13.92255	17 21 05.15	+19 20 53.8	19.7 V	K	215
P/2018 L4	2018 07 16.39624	17 21 38.802	+18 11 07.30	19.7 w		F52
P/2018 L4	2018 07 16.40657	17 21 38.920	+18 10 49.53	19.9 w		F52
P/2018 L4	2018 07 16.41659	17 21 39.058	+18 10 31.90	19.5 w		F52
P/2018 L4	2018 07 16.42667	17 21 39.175	+18 10 14.33	19.9 w		F52
P/2018 L4	2018 07 18.93587	17 22 26.06	+16 55 57.1	19.8 R	K	B96
P/2018 L4	2018 07 18.94077	17 22 26.13	+16 55 49.3	19.6 R	K	B96
P/2018 L4	2018 07 18.94568	17 22 26.19	+16 55 39.1	19.7 R	K	B96
P/2018 L4	2018 08 10.86212	17 39 32.06	+04 02 44.5	20.3 N	K	K87
P/2018 L4	2018 08 10.86596	17 39 32.31	+04 02 36.3	20.4 N	K	K87
P/2018 L4	2018 08 10.87679	17 39 32.99	+04 02 11.9	20.1 N	K	K87
P/2018 L4	2018 08 10.87818	17 39 33.10	+04 02 09.5	20.8 N	K	K87
P/2018 L4	2018 08 10.88066	17 39 33.24	+04 02 04.2	20.5 N	K	K87
P/2018 L4	2018 09 06.38359	18 20 15.80	−10 11 53.8	20.8 R	K	474
P/2018 L4	2018 09 06.38851	18 20 16.28	−10 12 02.3	22.4 R	K	474

P/2018 L5 (Leonard)

P/2018 L5	2018 06 08.42005	23 20 31.66	−01 44 07.2	20.3 G		I41
P/2018 L5	2018 06 08.46095	23 20 34.71	−01 43 46.6	19.8 G		I41
P/2018 L5	2018 06 13.42035	23 26 28.15	−01 03 15.6	19.8 G		I41
P/2018 L5	2018 06 13.47856	23 26 32.04	−01 02 46.4	19.4 G		I41
P/2018 L5	2018 06 14.42257	23 27 36.82	−00 55 18.9	18.5 G		G96
P/2018 L5	2018 06 14.42736	23 27 37.08	−00 55 16.9	19.2 G		G96
P/2018 L5	2018 06 14.43396	23 27 37.59	−00 55 13.6	18.6 G		G96
P/2018 L5	2018 06 14.46436	23 27 39.58	−00 54 59.0	18.5 G		G96
P/2018 L5	2018 06 15.37300	23 28 41.08	−00 47 53.7	19.3 G	K	H36
P/2018 L5	2018 06 15.38533	23 28 41.88	−00 47 47.5	19.3 G	K	H36
P/2018 L5	2018 06 15.39766	23 28 42.73	−00 47 42.8	19.4 G	K	H36
P/2018 L5	2018 06 15.74091	23 29 05.76	−00 44 56.4		1	Q62
P/2018 L5	2018 06 15.74626	23 29 06.13	−00 44 54.0		1	Q62
P/2018 L5	2018 06 15.74871	23 29 06.28	−00 44 52.9		1	Q62
P/2018 L5	2018 06 15.75116	23 29 06.42	−00 44 51.8	19.6 w	1	Q62
P/2018 L5	2018 06 16.35286	23 29 46.48	−00 40 15.0	19.6 R		KW96
P/2018 L5	2018 06 16.37812	23 29 48.11	−00 40 02.8	19.6 R		KW96
P/2018 L5	2018 06 16.37986	23 29 48.17	−00 40 01.8	19.2 R		KW96
P/2018 L5	2018 06 16.40858	23 29 50.09	−00 39 48.1	19.5 R		KW96
P/2018 L5	2018 06 17.18227	23 30 41.07	−00 33 57.5		9	G40
P/2018 L5	2018 06 17.19832	23 30 42.15	−00 33 51.6	18.9 V	9	G40
P/2018 L5	2018 06 17.37679	23 30 53.98	−00 32 28.7	19.5 R	H	691
P/2018 L5	2018 06 17.38822	23 30 54.62	−00 32 25.1	19.9 R	H	691
P/2018 L5	2018 06 17.39960	23 30 55.40	−00 32 18.3	19.4 R	H	691
P/2018 L5	2018 06 18.34741	23 31 56.81	−00 25 06.8	19.8 R	K	I47
P/2018 L5	2018 06 18.35152	23 31 57.03	−00 25 04.6	19.9 R	K	I47
P/2018 L5	2018 06 18.41277	23 32 01.01	−00 24 40.6	20.4 G		I52
P/2018 L5	2018 06 18.41682	23 32 01.28	−00 24 38.2	20.2 G		I52
P/2018 L5	2018 06 18.42413	23 32 01.77	−00 24 36.0	20.1 G		I52
P/2018 L5	2018 06 18.42806	23 32 01.98	−00 24 34.3	19.2 G		I52
P/2018 L5	2018 06 19.42947	23 33 05.91	−00 17 07.4	20.6 G		I52
P/2018 L5	2018 06 19.43412	23 33 06.17	−00 17 05.6	19.6 G		I52
P/2018 L5	2018 06 19.43924	23 33 06.40	−00 17 03.2	20.5 G		I52
P/2018 L5	2018 06 19.44518	23 33 06.85	−00 17 01.1	19.7 G		I52
P/2018 L5	2018 06 21.03472	23 34 46.18	−00 05 25.2	19.8 V	K	L01
P/2018 L5	2018 06 21.03969	23 34 46.52	−00 05 23.4	20.1 V	K	L01
P/2018 L5	2018 06 21.04466	23 34 46.80	−00 05 22.0	19.9 V	K	L01
P/2018 L5	2018 06 21.40957	23 35 09.23	−00 02 42.8	19.2 G		I52
P/2018 L5	2018 06 21.41390	23 35 09.48	−00 02 42.0	18.8 G		I52
P/2018 L5	2018 06 21.41902	23 35 09.80	−00 02 39.2	19.4 G		I52
P/2018 L5	2018 06 21.42455	23 35 10.13	−00 02 37.6	18.7 G		I52
P/2018 L5	2018 06 22.41900	23 36 10.55	+00 04 28.7	19.4 R	K	291
P/2018 L5	2018 06 22.42275	23 36 10.88	+00 04 30.7		K	291
P/2018 L5	2018 06 22.42650	23 36 11.00	+00 04 31.7	19.4 R	K	291
P/2018 L5	2018 06 22.43305	23 36 11.41	+00 04 33.9	19.2 G		I52
P/2018 L5	2018 06 22.44081	23 36 11.86	+00 04 37.1	19.1 G		I52
P/2018 L5	2018 06 22.44657	23 36 12.19	+00 04 39.6	19.1 G		I52
P/2018 L5	2018 06 23.42649	23 37 10.77	+00 11 31.9	19.3 G		I52
P/2018 L5	2018 06 23.43023	23 37 11.03	+00 11 33.7	19.6 G		I52
P/2018 L5	2018 06 23.43402	23 37 11.20	+00 11 34.8	19.5 G		I52
P/2018 L5	2018 06 23.43846	23 37 11.46	+00 11 37.1	19.1 G		I52
P/2018 L5	2018 06 25.40104	23 39 05.89	+00 25 05.1	21.0 G		I52
P/2018 L5	2018 06 25.40548	23 39 06.08	+00 25 05.5	20.9 G		I52
P/2018 L5	2018 06 25.42189	23 39 06.88	+00 25 12.3	19.1 G		I52
P/2018 L5	2018 06 25.42510	23 39 07.06	+00 25 13.4	19.1 G		I52

P/2018 L5	2018 07 01.37831	23 44 27.76	+01 03 13.2	20.8	G		I52
P/2018 L5	2018 07 01.38355	23 44 28.01	+01 03 15.7	19.1	G		I52
P/2018 L5	2018 07 01.38789	23 44 28.14	+01 03 16.6	19.6	G		I52
P/2018 L5	2018 07 09.03685	23 50 19.02	+01 45 28.6	19.3		K	215
P/2018 L5	2018 07 09.03878	23 50 19.08	+01 45 28.8	18.8		K	215
P/2018 L5	2018 07 09.04070	23 50 19.14	+01 45 30.0	18.4		K	215
P/2018 L5	2018 07 13.58228	23 53 12.199	+02 06 42.46	20.4	w		F51
P/2018 L5	2018 07 13.59283	23 53 12.541	+02 06 44.79	20.7	w		F51
P/2018 L5	2018 07 13.60344	23 53 12.893	+02 06 47.47	20.3	w		F51
P/2018 L5	2018 07 19.56366	23 56 16.876	+02 29 43.78	20.5	w		F52
P/2018 L5	2018 07 19.57488	23 56 17.160	+02 29 46.17	19.9	w		F52
P/2018 L5	2018 07 19.58616	23 56 17.439	+02 29 48.31	20.4	w		F52
P/2018 L5	2018 07 19.59673	23 56 17.701	+02 29 50.52	19.9	w		F52
P/2018 L5	2018 08 12.98874	23 59 41.56	+02 59 59.9	19.5	V	K	A71
P/2018 L5	2018 08 12.99873	23 59 41.48	+02 59 59.3	19.6	V	K	A71
P/2018 L5	2018 08 13.00872	23 59 41.37	+02 59 59.2	19.4	V	K	A71
P/2018 L5	2018 08 13.52270	23 59 35.846	+02 59 29.64	20.4	w		F51
P/2018 L5	2018 08 13.53480	23 59 35.664	+02 59 28.77	20.7	w		F51
P/2018 L5	2018 08 13.54684	23 59 35.525	+02 59 28.08	20.4	w		F51
P/2018 L5	2018 08 13.55884	23 59 35.346	+02 59 27.16	20.6	w		F51
P/2018 L5	2018 08 18.97143	23 58 14.58	+02 50 52.6	18.9	T	K	461
P/2018 L5	2018 08 18.97629	23 58 14.46	+02 50 52.0	19.1	T	K	461
P/2018 L5	2018 08 18.98114	23 58 14.35	+02 50 51.6	18.7	T	K	461
P/2018 L5	2018 08 19.97817	23 57 55.05	+02 48 43.5	18.7	T	K	461
P/2018 L5	2018 08 19.98303	23 57 54.96	+02 48 42.6	19.1	T	K	461
P/2018 L5	2018 08 19.98822	23 57 54.84	+02 48 41.8	18.9	T	K	461
P/2018 L5	2018 08 21.08478	23 57 32.06	+02 46 11.4	19.0	N		J22
P/2018 L5	2018 08 21.08888	23 57 31.98	+02 46 09.4	19.0	N		J22
P/2018 L5	2018 08 21.09282	23 57 31.90	+02 46 08.4	18.0	N		J22
P/2018 L5	2018 08 21.46617	23 57 23.846	+02 45 15.21	19.4	i		F51
P/2018 L5	2018 08 21.47968	23 57 23.514	+02 45 13.13	19.8	i		F51
P/2018 L5	2018 08 21.49320	23 57 23.206	+02 45 11.17	19.6	i		F51
P/2018 L5	2018 08 21.50672	23 57 22.864	+02 45 09.15	19.7	i		F51
P/2018 L5	2018 09 01.44151	23 52 13.29	+02 08 42.6	18.5	G		703
P/2018 L5	2018 09 01.45217	23 52 12.90	+02 08 39.4	17.6	G		703
P/2018 L5	2018 09 01.45750	23 52 12.67	+02 08 38.2	19.0	G		703
P/2018 L5	2018 09 02.27956	23 51 44.96	+02 05 13.1	19.1	V	K	V03
P/2018 L5	2018 09 02.28742	23 51 44.68	+02 05 11.1	19.2	V	K	V03
P/2018 L5	2018 09 02.29527	23 51 44.46	+02 05 09.0	19.3	V	K	V03
P/2018 L5	2018 09 02.30307	23 51 44.18	+02 05 06.8	19.1	V	K	V03
P/2018 L5	2018 09 04.02990	23 50 43.45	+01 57 41.2	18.6	N		J22
P/2018 L5	2018 09 04.03748	23 50 43.20	+01 57 39.4	18.6	N		J22
P/2018 L5	2018 09 04.04488	23 50 42.88	+01 57 37.2	18.6	N		J22
P/2018 L5	2018 09 07.27293	23 48 43.70	+01 42 50.3				703
P/2018 L5	2018 09 07.27833	23 48 43.41	+01 42 47.4	17.9	G		703
P/2018 L5	2018 09 07.28373	23 48 43.17	+01 42 46.5	17.6	G		703
P/2018 L5	2018 09 07.28913	23 48 42.89	+01 42 44.2	17.6	G		703
P/2018 L5	2018 09 08.72035	23 47 48.12	+01 35 53.3	18.2	R		D29
P/2018 L5	2018 09 08.73449	23 47 47.56	+01 35 49.4	18.3	R		D29
P/2018 L5	2018 09 08.74863	23 47 46.90	+01 35 44.7	18.0	R		D29
P/2018 L5	2018 09 12.28009	23 45 28.50	+01 18 06.5	17.8	G		G96
P/2018 L5	2018 09 12.28527	23 45 28.25	+01 18 05.1	17.7	G		G96
P/2018 L5	2018 09 12.29042	23 45 28.09	+01 18 03.6	17.7	G		G96
P/2018 L5	2018 09 12.29559	23 45 27.90	+01 18 02.2	17.9	G		G96
P/2018 L5	2018 09 12.31121	23 45 27.07	+01 17 57.6	17.5	G		703
P/2018 L5	2018 09 12.31823	23 45 26.85	+01 17 55.1	17.4	G		703
P/2018 L5	2018 09 12.32393	23 45 26.72	+01 17 53.3	17.6	G		703
P/2018 L5	2018 09 13.18369	23 44 52.72	+01 13 29.1	18.1	G		I52
P/2018 L5	2018 09 13.18886	23 44 52.47	+01 13 27.2	18.1	G		I52
P/2018 L5	2018 09 13.19146	23 44 52.39	+01 13 26.5	18.2	G		I52
P/2018 L5	2018 09 13.19539	23 44 52.17	+01 13 24.3	17.8	G		I52
P/2018 L5	2018 09 17.47545	23 42 00.24	+00 51 01.6	18.1	o		T05
P/2018 L5	2018 09 17.48545	23 41 59.79	+00 50 58.5	18.7	o		T05
P/2018 L5	2018 09 17.48879	23 41 59.63	+00 50 57.6	18.1	o		T05
P/2018 L5	2018 09 17.49536	23 41 59.39	+00 50 55.4	18.6	o		T05
P/2018 L5	2018 09 17.49884	23 41 59.22	+00 50 54.3	18.1	o		T05
P/2018 L5	2018 09 17.50541	23 41 58.95	+00 50 51.3	18.0	o		T05
P/2018 L5	2018 09 17.50881	23 41 58.81	+00 50 50.9	17.7	o		T05
P/2018 L5	2018 09 17.51899	23 41 58.37	+00 50 47.5	19.0	o		T05
P/2018 L5	2018 09 18.22726	23 41 30.27	+00 47 01.7	17.9	G		703
P/2018 L5	2018 09 18.23251	23 41 30.02	+00 46 59.1	17.4	G		703
P/2018 L5	2018 09 18.23775	23 41 29.81	+00 46 58.2	17.5	G		703
P/2018 L5	2018 09 18.24300	23 41 29.62	+00 46 56.5	17.7	G		703
P/2018 L5	2018 09 19.47191	23 40 40.48	+00 40 26.0	18.3	o		T08
P/2018 L5	2018 09 19.48191	23 40 40.09	+00 40 21.1	18.5	o		T08
P/2018 L5	2018 09 19.49195	23 40 39.61	+00 40 18.7	18.5	o		T08
P/2018 L5	2018 09 19.50196	23 40 39.19	+00 40 15.9	18.5	o		T08

C/2018 M1 (Catalina)

C/2018 M1	2018 06 25.43473	01 34 14.43	+10 20 51.4	17.6	G		703
C/2018 M1	2018 06 25.44514	01 34 16.10	+10 21 23.5	16.6	G		703
C/2018 M1	2018 06 25.45034	01 34 17.02	+10 21 38.4	16.7	G		703
C/2018 M1	2018 06 25.79600	01 35 07.47	+10 38 55.6			1	Q62
C/2018 M1	2018 06 25.79774	01 35 07.74	+10 39 00.8			1	Q62
C/2018 M1	2018 06 25.79949	01 35 08.00	+10 39 06.2	17.7	w	1	Q62
C/2018 M1	2018 06 26.44875	01 36 43.81	+11 11 18.5	17.8	R	K	691
C/2018 M1	2018 06 26.45117	01 36 44.14	+11 11 25.8	17.6	R	K	691
C/2018 M1	2018 06 26.45358	01 36 44.53	+11 11 33.2	17.7	R	K	691
C/2018 M1	2018 06 28.18428	01 41 01.09	+12 38 07.6	18.2	G	19	G40
C/2018 M1	2018 06 28.21003	01 41 04.86	+12 39 24.9	18.2	G	19	G40
C/2018 M1	2018 06 28.41022	01 41 34.60	+12 49 28.6	17.9	G	K	H36
C/2018 M1	2018 06 28.41476	01 41 35.21	+12 49 40.3	17.8	G	K	H36
C/2018 M1	2018 06 29.19825	01 43 32.31	+13 29 05.3	17.5	R	20	G40
C/2018 M1	2018 06 29.19927	01 43 32.44	+13 29 09.5	17.9	R	20	G40
C/2018 M1	2018 06 29.20284	01 43 32.90	+13 29 19.4	17.5	V	9	G40
C/2018 M1	2018 06 29.20864	01 43 33.80	+13 29 37.2	17.7	V	9	G40
C/2018 M1	2018 06 29.21436	01 43 34.60	+13 29 54.8	17.6	V	9	G40
C/2018 M1	2018 06 29.89726	01 45 16.98	+14 04 20.2	17.9	V		N55
C/2018 M1	2018 06 29.90189	01 45 17.66	+14 04 34.4	18.0	V		N55
C/2018 M1	2018 06 29.90650	01 45 18.32	+14 04 47.9	18.0	V		N55
C/2018 M1	2018 06 29.91093	01 45 19.01	+14 05 01.2	17.9	V		N55
C/2018 M1	2018 06 30.08636	01 45 45.14	+14 13 49.7	17.9	R	K	C10
C/2018 M1	2018 06 30.08930	01 45 45.62	+14 13 59.6	18.0	R	K	C10
C/2018 M1	2018 06 30.09181	01 45 46.10	+14 14 08.2	18.1	R	K	C10
C/2018 M1	2018 07 01.06899	01 48 13.11	+15 03 28.9			K	204
C/2018 M1	2018 07 01.07602	01 48 14.13	+15 03 50.2			K	204

C/2018 M1	2018 07 01.08304	01 48 15.16	+15 04 11.7	17.8	G	K	204
C/2018 M1	2018 07 01.42260	01 49 06.47	+15 21 23.5	17.2	G		I52
C/2018 M1	2018 07 01.42301	01 49 06.56	+15 21 25.4				I52
C/2018 M1	2018 07 01.42426	01 49 06.70	+15 21 28.7				I52
C/2018 M1	2018 07 01.42468	01 49 06.81	+15 21 30.3				I52
C/2018 M1	2018 07 02.18700	01 51 02.19	+16 00 10.0	17.8	N		J22
C/2018 M1	2018 07 02.18775	01 51 02.36	+16 00 11.7	17.9	R	K	J22
C/2018 M1	2018 07 02.19000	01 51 02.75	+16 00 18.3	17.9	R	K	J22
C/2018 M1	2018 07 02.19075	01 51 02.74	+16 00 20.5	17.8	N		J22
C/2018 M1	2018 07 02.19226	01 51 03.03	+16 00 25.3	18.0	R	K	J22
C/2018 M1	2018 07 02.19376	01 51 03.28	+16 00 29.9	17.8	N		J22
C/2018 M1	2018 07 02.44208	01 51 41.01	+16 13 05.6	16.9	G		703
C/2018 M1	2018 07 02.44695	01 51 41.70	+16 13 20.1	16.5	G		703
C/2018 M1	2018 07 02.45670	01 51 43.23	+16 13 48.9	16.4	G		703
C/2018 M1	2018 07 03.44174	01 54 13.19	+17 03 52.0				703
C/2018 M1	2018 07 03.44715	01 54 14.02	+17 04 09.0	17.1	G		703
C/2018 M1	2018 07 03.45256	01 54 14.84	+17 04 25.0				703
C/2018 M1	2018 07 03.45797	01 54 15.66	+17 04 42.1				703
C/2018 M1	2018 07 05.43881	01 59 19.92	+18 45 31.2				703
C/2018 M1	2018 07 05.44469	01 59 20.81	+18 45 48.4	17.8	G		703
C/2018 M1	2018 07 05.45058	01 59 21.75	+18 46 07.4				703
C/2018 M1	2018 07 05.45646	01 59 22.64	+18 46 25.8				703
C/2018 M1	2018 07 09.04634	02 08 43.12	+21 49 24.1	18.0		K	215
C/2018 M1	2018 07 09.04762	02 08 43.32	+21 49 27.9	18.0		K	215
C/2018 M1	2018 07 09.04890	02 08 43.52	+21 49 31.8	18.0		K	215
C/2018 M1	2018 07 13.04260	02 19 21.94	+25 12 34.8	18.1	N		K77
C/2018 M1	2018 07 13.04424	02 19 22.32	+25 12 39.6	17.8	N		K77
C/2018 M1	2018 07 13.73757	02 21 15.03	+25 47 45.1				Q11
C/2018 M1	2018 07 13.74325	02 21 15.95	+25 48 02.4				Q11
C/2018 M1	2018 07 13.75183	02 21 17.33	+25 48 28.5	17.1	T		Q11
C/2018 M1	2018 07 14.01606	02 22 00.38	+26 01 49.1	17.6	T	K	461
C/2018 M1	2018 07 14.02072	02 22 01.14	+26 02 03.1	17.9	T	K	461
C/2018 M1	2018 07 14.02538	02 22 01.88	+26 02 17.3	17.9	T	K	461
C/2018 M1	2018 07 14.17612	02 22 26.66	+26 09 55.1	18.1	N		J22
C/2018 M1	2018 07 14.17706	02 22 26.71	+26 09 58.8	18.1	N		J22
C/2018 M1	2018 07 14.17891	02 22 27.01	+26 10 05.3	18.1	N		J22
C/2018 M1	2018 07 20.03356	02 38 43.42	+31 02 34.7	18.6	G	K	C47
C/2018 M1	2018 07 20.03725	02 38 44.03	+31 02 45.9	18.1	G	K	C47
C/2018 M1	2018 07 20.04094	02 38 44.63	+31 02 56.3	18.1	G	K	C47
C/2018 M1	2018 07 20.04463	02 38 45.39	+31 03 07.1	18.0	G	K	C47
C/2018 M1	2018 07 20.04832	02 38 45.86	+31 03 18.2	18.1	G	K	C47
C/2018 M1	2018 07 21.01126	02 41 30.65	+31 50 39.0	18.0	N	K	A71
C/2018 M1	2018 07 21.01496	02 41 31.30	+31 50 50.3	18.2	N	K	A71
C/2018 M1	2018 07 22.14083	02 44 45.70	+32 45 53.0	18.1	N		J22
C/2018 M1	2018 07 22.14269	02 44 46.11	+32 45 59.5	18.1	N		J22
C/2018 M1	2018 07 22.14454	02 44 46.57	+32 46 04.6	18.1	N		J22
C/2018 M1	2018 08 01.12450	03 14 48.47	+40 33 51.7	17.7	N	K	160
C/2018 M1	2018 08 01.12589	03 14 48.66	+40 33 54.8	18.2	N	K	160
C/2018 M1	2018 08 01.12727	03 14 48.88	+40 33 58.2	17.9	N	K	160
C/2018 M1	2018 08 03.05921	03 20 55.70	+41 59 32.0	17.6	R		B96
C/2018 M1	2018 08 03.06248	03 20 56.28	+41 59 39.6	17.5	R		B96
C/2018 M1	2018 08 03.06738	03 20 57.30	+41 59 53.8	16.2	R		B96
C/2018 M1	2018 08 03.19925	03 21 22.58	+42 05 42.4	17.6	N	9	G40
C/2018 M1	2018 08 03.20497	03 21 23.67	+42 05 58.2	17.8	N	9	G40
C/2018 M1	2018 08 03.21071	03 21 24.74	+42 06 12.9	17.7	N	9	G40
C/2018 M1	2018 08 03.74608	03 23 07.41	+42 29 33.4			K	D81
C/2018 M1	2018 08 03.74684	03 23 07.54	+42 29 35.9			K	D81
C/2018 M1	2018 08 03.74837	03 23 07.75	+42 29 39.3			K	D81
C/2018 M1	2018 08 03.75065	03 23 08.40	+42 29 44.7	17.2	T	K	D81
C/2018 M1	2018 08 06.08409	03 30 41.93	+44 09 44.9	18.2	R		B96
C/2018 M1	2018 08 06.08735	03 30 42.56	+44 09 53.4	18.4	R		B96
C/2018 M1	2018 08 06.09226	03 30 43.50	+44 10 05.0	17.5	R		B96
C/2018 M1	2018 08 07.05310	03 33 52.78	+44 50 26.0	18.1	R		B96
C/2018 M1	2018 08 07.05638	03 33 53.54	+44 50 34.3	18.3	R		B96
C/2018 M1	2018 08 07.06127	03 33 54.36	+44 50 46.3	18.1	R		B96
C/2018 M1	2018 08 08.07238	03 37 15.18	+45 32 39.4	18.0	N		I72
C/2018 M1	2018 08 08.08154	03 37 16.91	+45 33 02.5	17.9	N		I72
C/2018 M1	2018 08 08.09083	03 37 18.75	+45 33 25.8	18.0	N		I72
C/2018 M1	2018 08 09.65961	03 42 33.97	+46 37 21.4	17.4	T		349
C/2018 M1	2018 08 09.66420	03 42 34.86	+46 37 33.1				349
C/2018 M1	2018 08 12.02224	03 50 35.54	+48 10 56.0	18.2	G	K	C47
C/2018 M1	2018 08 12.02833	03 50 36.81	+48 11 10.7	18.2	G	K	C47
C/2018 M1	2018 08 12.99337	03 53 56.02	+48 48 26.7	18.8	G	K	C47
C/2018 M1	2018 08 12.99706	03 53 56.86	+48 48 35.1	18.3	G	K	C47
C/2018 M1	2018 08 13.00075	03 53 57.61	+48 48 44.0	18.7	G	K	C47
C/2018 M1	2018 08 13.00444	03 53 58.34	+48 48 52.2	18.6	G	K	C47
C/2018 M1	2018 08 14.46914	03 59 03.42	+49 44 28.0				32H06
C/2018 M1	2018 08 14.47073	03 59 03.80	+49 44 31.3	17.8	G		32H06
C/2018 M1	2018 08 24.46097	04 35 09.68	+55 28 26.4				32H06
C/2018 M1	2018 08 24.46257	04 35 10.04	+55 28 29.9	17.9	G		32H06
C/2018 M1	2018 09 02.97963	05 11 22.65	+59 59 59.5	20.3	R	K	B96
C/2018 M1	2018 09 02.98245	05 11 22.66	+60 00 05.2	19.0	R	K	B96
C/2018 M1	2018 09 08.41741	05 32 28.39	+62 12 18.8	17.9	G		703
C/2018 M1	2018 09 08.42272	05 32 29.43	+62 12 25.5	18.2	G		703
C/2018 M1	2018 09 08.42803	05 32 30.59	+62 12 31.9	18.0	G		703
C/2018 M1	2018 09 08.43334	05 32 31.76	+62 12 39.2	18.4	G		703
C/2018 M1	2018 09 10.41644	05 40 13.28	+62 57 02.7				32H06
C/2018 M1	2018 09 10.41863	05 40 13.78	+62 57 05.7				32H06
C/2018 M1	2018 09 10.42081	05 40 14.29	+62 57 08.8	18.4	G		32H06
C/2018 M1	2018 09 11.42867	05 44 08.24	+63 18 57.3	18.3	G		703
C/2018 M1	2018 09 11.43413	05 44 09.54	+63 19 04.9	18.0	G		703
C/2018 M1	2018 09 11.43959	05 44 10.66	+63 19 12.8	18.1	G		703
C/2018 M1	2018 09 14.43230	05 55 42.16	+64 21 04.8	18.4	G		703
C/2018 M1	2018 09 14.43768	05 55 43.17	+64 21 11.6	17.9	G		703
C/2018 M1	2018 09 14.44307	05 55 44.33	+64 21 18.9	18.3	G		703
C/2018 M1	2018 09 14.44846	05 55 45.28	+64 21 25.8	18.2	G		703
C/2018 M1	2018 09 17.60582	06 07 47.22	+65 22 26.6	18.7	o		T08
C/2018 M1	2018 09 17.61480	06 07 49.08	+65 22 36.9	18.5	o		T08
C/2018 M1	2018 09 17.62375	06 07 51.05	+65 22 47.0	18.6	o		T08
C/2018 M1	2018 09 17.63273	06 07 53.08	+65 22 57.3	18.7	o		T08

C/2018 N1 (NEOWISE)

C/2018 N1	2018 06 29.58588	01 13 17.93	−08 53 05.6	16.1	o	T05
C/2018 N1	2018 06 29.59381	01 13 17.22	−08 53 13.7	16.3	o	T05
C/2018 N1	2018 06 29.60210	01 13 16.51	−08 53 22.2	17.2	o	T05
C/2018 N1	2018 06 29.61036	01 13 15.78	−08 53 31.2	16.3	o	T05

C/2018 N1	2018 07 02.37056	01 08 46.76	−09 46 43.7	16	R			C51
Geocentric position (km)	+ 5602.6905	+ 3958.9495	− 105.2809					
C/2018 N1	2018 07 02.50146	01 08 32.22	−09 49 33.1					C51
Geocentric position (km)	+ 5594.6191	+ 3969.9915	− 120.2812					
C/2018 N1	2018 07 02.63224	01 08 17.56	−09 52 24.8					C51
Geocentric position (km)	+ 5581.0939	+ 3990.3175	− 52.0935					
C/2018 N1	2018 07 02.69769	01 08 10.15	−09 53 51.1					C51
Geocentric position (km)	+ 5577.0816	+ 3995.8597	− 59.5692					
C/2018 N1	2018 07 02.76314	01 08 02.63	−09 55 17.7					C51
Geocentric position (km)	+ 5573.0562	+ 4001.3819	− 67.1121					
C/2018 N1	2018 07 05.30677	01 02 34.36	−10 57 56.0	15.0	R			X74
C/2018 N1	2018 07 05.31505	01 02 33.10	−10 58 10.2	15.0	R			X74
C/2018 N1	2018 07 05.32353	01 02 31.77	−10 58 24.1	15.0	R			X74
C/2018 N1	2018 07 05.38251	01 02 23.27	−11 00 09.7	16.1	R		K	850
C/2018 N1	2018 07 05.38967	01 02 22.22	−11 00 22.3	16.1	R		K	850
C/2018 N1	2018 07 05.39690	01 02 21.09	−11 00 33.3	15.8	R		K	850
C/2018 N1	2018 07 05.90236	01 01 04.90	−11 14 46.3	16.6	R			N55
C/2018 N1	2018 07 05.91086	01 01 03.58	−11 15 02.3	16.6	R			N55
C/2018 N1	2018 07 05.91913	01 01 02.26	−11 15 16.3	16.6	R			N55
C/2018 N1	2018 07 05.92741	01 01 01.01	−11 15 29.9	16.6	R			N55
C/2018 N1	2018 07 06.27737	01 00 05.90	−11 25 35.8	16.3	N			KW96
C/2018 N1	2018 07 06.28839	01 00 04.08	−11 25 56.7	16.1	N			KW96
C/2018 N1	2018 07 06.29719	01 00 02.70	−11 26 11.6	16.3	N			KW96
C/2018 N1	2018 07 06.34596	00 59 54.23	−11 27 41.9	17.1	R			Y00
C/2018 N1	2018 07 06.34888	00 59 53.78	−11 27 47.4	17.0	R			Y00
C/2018 N1	2018 07 06.35177	00 59 53.34	−11 27 53.0	16.9	R			Y00
C/2018 N1	2018 07 06.76673	00 58 44.98	−11 40 28.5	16.5	N		25	Q62
C/2018 N1	2018 07 06.76897	00 58 44.59	−11 40 32.7	16.3	N		25	Q62
C/2018 N1	2018 07 06.77138	00 58 44.17	−11 40 37.5	16.3	N		25	Q62
C/2018 N1	2018 07 07.09439	00 57 48.64	−11 51 01.2	15.6	V		K	A77
C/2018 N1	2018 07 07.09874	00 57 47.99	−11 51 08.6	15.7	V		K	A77
C/2018 N1	2018 07 07.10308	00 57 47.21	−11 51 16.3	15.6	V		K	A77
C/2018 N1	2018 07 07.19045	00 57 31.85	−11 54 02.4	15.7	R		20	G40
C/2018 N1	2018 07 07.19245	00 57 31.50	−11 54 07.5	15.6	R		20	G40
C/2018 N1	2018 07 08.19241	00 54 25.52	−12 27 52.0	16.0	N		9	G40
C/2018 N1	2018 07 08.19809	00 54 24.34	−12 28 04.1	16.0	N		9	G40
C/2018 N1	2018 07 08.20382	00 54 23.26	−12 28 16.5	16.0	N		9	G40
C/2018 N1	2018 07 08.31889	00 54 00.65	−12 32 11.8	16.2	N			W96
C/2018 N1	2018 07 08.32506	00 53 59.38	−12 32 25.0	16.0	N			W96
C/2018 N1	2018 07 08.33673	00 53 57.01	−12 32 49.5	16.1	N			W96
C/2018 N1	2018 07 08.34126	00 53 56.09	−12 32 59.6	16.0	N			W96
C/2018 N1	2018 07 08.69120	00 52 45.22	−12 45 53.6	12.9	T			349
C/2018 N1	2018 07 08.69817	00 52 43.74	−12 46 08.8					349
C/2018 N1	2018 07 08.70515	00 52 42.31	−12 46 24.2					349
C/2018 N1	2018 07 09.07139	00 51 24.79	−13 00 13.2	16.6			K	215
C/2018 N1	2018 07 09.07267	00 51 24.52	−13 00 16.2	16.6			K	215
C/2018 N1	2018 07 09.07396	00 51 24.22	−13 00 19.6	16.6			K	215
C/2018 N1	2018 07 09.12704	00 51 12.75	−13 02 20.8	15.6	N			J01
C/2018 N1	2018 07 09.12938	00 51 12.15	−13 02 26.3	15.5	N			J01
C/2018 N1	2018 07 09.13406	00 51 11.15	−13 02 37.7	15.4	N			J01
C/2018 N1	2018 07 09.13640	00 51 10.71	−13 02 43.1	15.4	N			J01
C/2018 N1	2018 07 09.82885	00 48 34.06	−13 30 01.9				1	Q62
C/2018 N1	2018 07 09.83009	00 48 33.76	−13 30 05.2				1	Q62
C/2018 N1	2018 07 09.83131	00 48 33.47	−13 30 08.1	12.2	w		1	Q62
C/2018 N1	2018 07 10.36155	00 46 25.69	−13 52 30.0	15.9	N			W96
C/2018 N1	2018 07 10.37093	00 46 23.34	−13 52 54.1	15.9	N			W96
C/2018 N1	2018 07 10.38065	00 46 20.86	−13 53 19.4	15.9	N			W96
C/2018 N1	2018 07 10.39082	00 46 18.27	−13 53 46.3	15.9	N			W96
C/2018 N1	2018 07 10.40054	00 46 15.77	−13 54 11.2	15.9	N			W96
C/2018 N1	2018 07 10.69741	00 45 00.67	−14 07 13.5	15.9	N		?	Q62
C/2018 N1	2018 07 10.69946	00 45 00.11	−14 07 18.6				?	Q62
C/2018 N1	2018 07 10.70178	00 44 59.53	−14 07 25.1	16.0	N		?	Q62
C/2018 N1	2018 07 11.11014	00 43 10.98	−14 26 17.1	15.3	V		K	A77
C/2018 N1	2018 07 11.11323	00 43 10.03	−14 26 27.8	15.1	V		K	A77
C/2018 N1	2018 07 12.09871	00 38 26.37	−15 14 31.1	15.2	V		K	A77
C/2018 N1	2018 07 12.10392	00 38 24.76	−15 14 47.8	15.1	V		K	A77
C/2018 N1	2018 07 12.10918	00 38 23.14	−15 15 02.8	12.8	T		K	A77
C/2018 N1	2018 07 12.33527	00 37 13.43	−15 26 43.4	15.7	R		K	850
C/2018 N1	2018 07 12.34903	00 37 09.05	−15 27 27.0	15.7	R		K	850
C/2018 N1	2018 07 12.36319	00 37 04.53	−15 28 12.5	15.4	R		K	850
C/2018 N1	2018 07 12.37714	00 37 00.06	−15 28 56.4	15.5	R		K	850
C/2018 N1	2018 07 12.39116	00 36 55.56	−15 29 40.0	15.5	R		K	850
C/2018 N1	2018 07 12.39186	00 36 55.09	−15 29 28.3	16.1	R		13	W88
C/2018 N1	2018 07 12.39272	00 36 54.84	−15 29 31.1	16.0	R		13	W88
C/2018 N1	2018 07 12.39356	00 36 54.53	−15 29 33.9	16.0	R		13	W88
C/2018 N1	2018 07 12.40513	00 36 51.07	−15 30 25.3	15.3	R		K	850
C/2018 N1	2018 07 12.63973	00 35 35.99	−15 42 39.9	16.7	G			Q38
C/2018 N1	2018 07 12.64221	00 35 35.24	−15 42 48.4	16.4	G			Q38
C/2018 N1	2018 07 12.64516	00 35 34.22	−15 42 57.1	16.5	G			Q38
C/2018 N1	2018 07 12.64810	00 35 33.32	−15 43 06.8	14.2	T			Q38
C/2018 N1	2018 07 12.72316	00 35 08.44	−15 47 13.4				1	Q62
C/2018 N1	2018 07 12.72437	00 35 08.03	−15 47 17.3				1	Q62
C/2018 N1	2018 07 12.72556	00 35 07.61	−15 47 21.4	11.7	w		1	Q62
C/2018 N1	2018 07 13.19128	00 32 29.54	−16 13 34.4	15.6	N		9	G40
C/2018 N1	2018 07 13.19461	00 32 28.37	−16 13 46.0	15.6	N		9	G40
C/2018 N1	2018 07 13.41011	00 31 11.88	−16 26 13.5	15.7	R			H47
C/2018 N1	2018 07 13.41247	00 31 11.01	−16 26 22.2	15.4	R			H47
C/2018 N1	2018 07 13.41362	00 31 10.58	−16 26 26.3	15.4	R			H47
C/2018 N1	2018 07 13.41447	00 31 10.30	−16 26 29.2	15.6	R			H47
C/2018 N1	2018 07 13.41535	00 31 09.96	−16 26 32.2	15.8	R			H47
C/2018 N1	2018 07 13.76494	00 29 01.55	−16 47 19.4					Q11
C/2018 N1	2018 07 13.76852	00 29 00.20	−16 47 32.2					Q11
C/2018 N1	2018 07 13.77208	00 28 58.82	−16 47 45.5					Q11
C/2018 N1	2018 07 13.77495	00 28 57.74	−16 47 55.8	12.8	T			Q11
C/2018 N1	2018 07 14.10624	00 26 50.41	−17 08 22.4	14.8	N			J01
C/2018 N1	2018 07 14.11598	00 26 46.67	−17 08 59.0	14.9	N			J01
C/2018 N1	2018 07 14.11862	00 26 45.57	−17 09 09.1	14.9	N			J01
C/2018 N1	2018 07 14.11950	00 26 45.20	−17 09 11.4	15.0	N			J01
C/2018 N1	2018 07 14.35150	00 25 11.87	−17 23 43.1	15.3	R			Y00
C/2018 N1	2018 07 14.35338	00 25 11.01	−17 23 50.0	15.2	R			Y00
C/2018 N1	2018 07 14.35528	00 25 10.03	−17 23 59.4	15.3	R			Y00
C/2018 N1	2018 07 14.72548	00 22 36.93	−17 48 25.3				K	D81
C/2018 N1	2018 07 14.72777	00 22 35.93	−17 48 34.9				K	D81
C/2018 N1	2018 07 14.73005	00 22 34.87	−17 48 45.4				K	D81
C/2018 N1	2018 07 14.73234	00 22 33.89	−17 48 53.1	12.0	T		K	D81
C/2018 N1	2018 07 15.08868	00 19 57.98	−18 13 09.2	14.6	V			A77

C/2018 N1	2018 07 15.09477	00 19 55.20	−18 13 35.8	14.6	V		A77
C/2018 N1	2018 07 15.10170	00 19 52.12	−18 14 04.7	12.5	T		A77
C/2018 N1	2018 07 15.39853	00 17 36.22	−18 34 55.1	15.9	R	K	H47
C/2018 N1	2018 07 15.40048	00 17 35.30	−18 35 03.9	15.9	R	K	H47
C/2018 N1	2018 07 15.40243	00 17 34.38	−18 35 12.4	15.2	R	K	H47
C/2018 N1	2018 07 15.75189	00 14 46.97	−19 00 40.8	11.8	T		349
C/2018 N1	2018 07 15.75473	00 14 45.57	−19 00 53.1				349
C/2018 N1	2018 07 15.75757	00 14 44.22	−19 01 05.3				349
C/2018 N1	2018 07 16.40848	00 09 09.47	−19 50 59.1	14.9	R	K	H47
C/2018 N1	2018 07 16.41007	00 09 08.67	−19 51 05.9	15.9	R	K	H47
C/2018 N1	2018 07 16.41285	00 09 07.08	−19 51 19.5	15.3	R	K	H47
C/2018 N1	2018 07 16.56471	00 07 44.62	−20 03 24.7	14.8	o		T08
C/2018 N1	2018 07 16.57257	00 07 40.22	−20 04 02.6	14.8	o		T08
C/2018 N1	2018 07 16.58042	00 07 35.83	−20 04 40.8	14.9	o		T08
C/2018 N1	2018 07 16.58826	00 07 31.45	−20 05 18.7	14.8	o		T08
C/2018 N1	2018 07 18.08182	23 52 10.04	−22 15 05.6	14.7	N		L27
C/2018 N1	2018 07 18.09373	23 52 01.75	−22 16 11.9	14.8	N		L27
C/2018 N1	2018 07 18.10591	23 51 53.40	−22 17 20.1	14.4	N		J01
C/2018 N1	2018 07 18.10660	23 51 52.84	−22 17 24.8	15.0	N		L27
C/2018 N1	2018 07 18.11789	23 51 45.02	−22 18 27.6	14.4	N		J01
C/2018 N1	2018 07 18.11875	23 51 44.39	−22 18 32.4	14.9	N		L27
C/2018 N1	2018 07 18.12131	23 51 42.64	−22 18 46.7	14.4	N		J01
C/2018 N1	2018 07 18.81245	23 43 17.30	−23 25 06.6	14.8	N		Q68
C/2018 N1	2018 07 18.81479	23 43 15.43	−23 25 20.4	14.7	N		Q68
C/2018 N1	2018 07 19.34861	23 36 07.99	−24 20 00.5	14.7	R		850
C/2018 N1	2018 07 19.35218	23 36 05.02	−24 20 22.6	14.7	R		850
C/2018 N1	2018 07 19.35574	23 36 01.93	−24 20 44.9	14.7	R		850
C/2018 N1	2018 07 19.36251	23 35 56.23	−24 21 27.3	14.7	R		850
C/2018 N1	2018 07 19.36625	23 35 53.06	−24 21 50.7	14.7	R		850
C/2018 N1	2018 07 19.36981	23 35 50.01	−24 22 13.1	14.8	R		850
C/2018 N1	2018 07 19.38388	23 35 38.12	−24 23 40.2	14.7	R		850
C/2018 N1	2018 07 19.38744	23 35 35.11	−24 24 03.6	14.8	R		850
C/2018 N1	2018 07 19.39100	23 35 32.06	−24 24 26.4	14.7	R		850
C/2018 N1	2018 07 20.12131	23 24 40.45	−25 42 49.0	13.9	V	K	A77
C/2018 N1	2018 07 20.12436	23 24 37.49	−25 43 09.1	14.1	V	K	A77
C/2018 N1	2018 07 20.53616	23 17 56.15	−26 28 54.8	14.3	o		T08
C/2018 N1	2018 07 20.53800	23 17 54.28	−26 29 07.5	14.3	o		T08
C/2018 N1	2018 07 20.54629	23 17 45.82	−26 30 03.6	14.3	o		T08
C/2018 N1	2018 07 20.56150	23 17 30.33	−26 31 46.9	15.0	o		T08
C/2018 N1	2018 07 20.72274	23 14 45.26	−26 50 08.4			K	367
C/2018 N1	2018 07 20.72558	23 14 42.31	−26 50 27.5			K	367
C/2018 N1	2018 07 20.72841	23 14 39.36	−26 50 47.1	11.7	T	K	367
C/2018 N1	2018 07 20.80199	23 13 21.39	−26 58 47.6	14.5	N		Q68
C/2018 N1	2018 07 20.84217	23 12 38.70	−27 03 21.5	14.5	N		Q68
C/2018 N1	2018 07 21.66888	22 57 05.60	−28 39 45.8	14.3	N		Q68
C/2018 N1	2018 07 21.71315	22 56 11.63	−28 44 59.8	14.3	N		Q68
C/2018 N1	2018 07 22.09914	22 48 08.53	−29 31 10.6	13.8	V		A77
C/2018 N1	2018 07 22.10791	22 47 57.05	−29 32 12.1	13.7	V		A77
C/2018 N1	2018 07 22.11664	22 47 45.72	−29 33 15.1	11.7	T		A77
C/2018 N1	2018 07 22.49195	22 39 28.11	−30 17 35.7	13.8	o		T05
C/2018 N1	2018 07 22.50247	22 39 13.59	−30 18 50.5	13.8	o		T05
C/2018 N1	2018 07 22.51076	22 39 02.12	−30 19 49.6	13.9	o		T05
C/2018 N1	2018 07 22.51857	22 38 51.32	−30 20 45.0	13.9	o		T05
C/2018 N1	2018 07 22.66582	22 35 26.95	−30 37 45.4	14.1	N		Q68
C/2018 N1	2018 07 22.78307	22 32 39.88	−30 51 30.3	14.1	N		Q68
C/2018 N1	2018 07 23.10700	22 24 46.48	−31 29 45.0	13.7	V		A77
C/2018 N1	2018 07 23.11047	22 24 41.14	−31 30 06.9	13.7	V		A77
C/2018 N1	2018 07 23.11393	22 24 35.85	−31 30 30.2	11.6	T		A77
C/2018 N1	2018 07 23.64738	22 10 48.51	−32 30 45.3				D81
C/2018 N1	2018 07 23.64815	22 10 47.06	−32 30 51.4				D81
C/2018 N1	2018 07 23.64891	22 10 46.09	−32 30 55.1				D81
C/2018 N1	2018 07 23.64968	22 10 44.68	−32 31 00.6	11.6	T		D81
C/2018 N1	2018 07 23.72337	22 08 44.53	−32 39 07.2	10.4	T		349
C/2018 N1	2018 07 23.72499	22 08 41.97	−32 39 17.2				349
C/2018 N1	2018 07 23.72661	22 08 39.26	−32 39 28.6				349
C/2018 N1	2018 07 24.41648	21 49 04.91	−33 50 55.6	13.5	N	14	W88
C/2018 N1	2018 07 24.41823	21 49 01.79	−33 51 06.2	13.7	N	14	W88
C/2018 N1	2018 07 24.42024	21 48 58.06	−33 51 18.5	13.7	N	14	W88
C/2018 N1	2018 07 24.42110	21 48 56.53	−33 51 23.4	13.7	N	14	W88
C/2018 N1	2018 07 24.71146	21 40 14.24	−34 19 08.6	13.8	N		Q68
C/2018 N1	2018 07 24.75061	21 39 02.13	−34 22 41.9	13.9	N		Q68
C/2018 N1	2018 07 24.77799	21 38 11.43	−34 25 09.9	13.8	N		Q68
C/2018 N1	2018 07 25.06171	21 29 21.41	−34 50 27.7	13.4	V	K	A77
C/2018 N1	2018 07 25.06952	21 29 06.71	−34 51 06.5	13.4	V	K	A77
C/2018 N1	2018 07 25.07733	21 28 51.74	−34 51 45.7	13.3	V	K	A77
C/2018 N1	2018 07 30.14360	18 40 07.89	−34 32 47.3	13.2	R		Y00
C/2018 N1	2018 07 30.14463	18 40 06.14	−34 32 39.6	13.7	R		Y00
C/2018 N1	2018 07 30.14645	18 40 02.93	−34 32 26.6	13.8	R		Y00
C/2018 N1	2018 07 30.43156	18 31 56.11	−34 08 20.2	14.0	o		T05
C/2018 N1	2018 07 30.43899	18 31 43.56	−34 07 40.7	14.7	o		T05
C/2018 N1	2018 07 30.45332	18 31 19.35	−34 06 23.6	13.9	o		T05
C/2018 N1	2018 07 30.90204	18 19 09.74	−33 25 16.2	14.6	V	K	A77
C/2018 N1	2018 07 30.90533	18 19 04.77	−33 24 56.1	15.1	V	K	A77
C/2018 N1	2018 07 30.90955	18 18 58.00	−33 24 32.8	15.3	V	K	A77
C/2018 N1	2018 08 01.35152	17 44 42.77	−30 59 20.1	14.1	o		T08
C/2018 N1	2018 08 01.35940	17 44 32.63	−30 58 30.6	14.0	o		T08
C/2018 N1	2018 08 01.36726	17 44 22.52	−30 57 41.5	14.0	o		T08
C/2018 N1	2018 08 02.86842	17 15 56.45	−28 22 55.2	16.2	V	K	A77
C/2018 N1	2018 08 02.87079	17 15 53.91	−28 22 36.2	15.8	V	K	A77
C/2018 N1	2018 08 02.87315	17 15 51.42	−28 22 21.7	16.3	V	K	A77
C/2018 N1	2018 08 03.37905	17 07 41.92	−27 31 57.9	14.7	c		T05
C/2018 N1	2018 08 03.38700	17 07 34.48	−27 31 10.6	14.8	c		T05
C/2018 N1	2018 08 03.39437	17 07 27.59	−27 30 27.0	14.7	c		T05
C/2018 N1	2018 08 03.88098	17 00 14.39	−26 43 26.3	14.5	N		J22
C/2018 N1	2018 08 03.88168	17 00 13.85	−26 43 23.5	14.5	N		J22
C/2018 N1	2018 08 03.88237	17 00 13.16	−26 43 18.7	14.5	N		J22
C/2018 N1	2018 08 04.45536	16 52 22.41	−25 49 52.5	11.1	T		349
C/2018 N1	2018 08 04.45916	16 52 19.32	−25 49 30.6				349
C/2018 N1	2018 08 04.46295	16 52 16.34	−25 49 10.3				349
C/2018 N1	2018 08 04.49984	16 51 47.36	−25 45 48.6			K	367
C/2018 N1	2018 08 04.50105	16 51 46.40	−25 45 41.9			K	367
C/2018 N1	2018 08 04.50267	16 51 45.13	−25 45 32.9	11.7	T	K	367
C/2018 N1	2018 08 05.48882	16 39 51.50	−24 19 14.5	11.7	T		Q11
C/2018 N1	2018 08 05.49454	16 39 47.63	−24 18 45.6				Q11
C/2018 N1	2018 08 05.50311	16 39 41.83	−24 18 02.4				Q11
C/2018 N1	2018 08 05.86332	16 35 47.33	−23 48 20.5	14.3	N		K77

C/2018 N1	2018 08 05.86483	16 35 46.30	−23 48 13.8	14.2	N	K77
C/2018 N1	2018 08 07.30501	16 22 02.23	−21 58 31.7	15.0	c	T05
C/2018 N1	2018 08 07.31288	16 21 58.13	−21 57 58.0	15.0	c	T05
C/2018 N1	2018 08 07.32073	16 21 54.04	−21 57 24.4	15.0	c	T05
C/2018 N1	2018 08 09.44395	16 06 07.62	−19 40 48.3	15.9	G	Q38
C/2018 N1	2018 08 09.44983	16 06 05.29	−19 40 27.8	16.0	G	Q38
C/2018 N1	2018 08 09.45670	16 06 02.63	−19 40 04.1	16.2	G	Q38
C/2018 N1	2018 08 10.86959	15 57 44.84	−18 23 56.9	15.0	N	J22
C/2018 N1	2018 08 10.87052	15 57 44.57	−18 23 52.3	15.0	N	J22
C/2018 N1	2018 08 10.87191	15 57 44.02	−18 23 47.3	15.0	N	J22
C/2018 N1	2018 08 10.87237	15 57 43.78	−18 23 49.1	14.9	N	J01
C/2018 N1	2018 08 10.89469	15 57 36.44	−18 22 40.6	14.9	N	J01
C/2018 N1	2018 08 11.87942	15 52 38.25	−17 35 17.0	16.1	R	K 215
C/2018 N1	2018 08 11.88070	15 52 37.96	−17 35 13.5	15.9	R	K 215
C/2018 N1	2018 08 11.88199	15 52 37.55	−17 35 09.8	16.3	R	K 215
C/2018 N1	2018 08 12.36616	15 50 23.73	−17 13 11.5	15.5	N	Q68
C/2018 N1	2018 08 12.47020	15 49 55.40	−17 08 37.8	15.3	N	Q68
C/2018 N1	2018 08 12.80529	15 48 28.14	−16 54 31.9	16.4	V	K A71
C/2018 N1	2018 08 12.80814	15 48 27.41	−16 54 24.7	16.2	V	K A71
C/2018 N1	2018 08 12.81351	15 48 26.03	−16 54 10.8	16.2	V	K A71
C/2018 N1	2018 08 13.35561	15 46 11.85	−16 31 38.8	15.5	N	Q68
C/2018 N1	2018 08 13.36987	15 46 08.45	−16 31 04.5	15.6	N	Q68
C/2018 N1	2018 08 14.31176	15 42 33.14	−15 55 02.5	15.8	o	T08
C/2018 N1	2018 08 14.32117	15 42 31.06	−15 54 41.9	15.3	o	T08
C/2018 N1	2018 08 14.33150	15 42 28.78	−15 54 19.0	15.3	o	T08
C/2018 N1	2018 08 14.34184	15 42 26.52	−15 53 55.8	16.0	o	T08
C/2018 N1	2018 08 14.37134	15 42 20.63	−15 52 41.5	15.4	N	Q68
C/2018 N1	2018 08 14.38595	15 42 17.47	−15 52 09.0	15.5	N	Q68
C/2018 N1	2018 08 16.35811	15 35 55.86	−14 45 45.6	15.6	N	Q68
C/2018 N1	2018 08 16.37026	15 35 53.68	−14 45 23.2	15.5	N	Q68
C/2018 N1	2018 08 17.41002	15 33 01.85	−14 14 36.0	15.6	N	Q68
C/2018 N1	2018 08 17.42243	15 32 59.94	−14 14 15.4	15.6	N	Q68
C/2018 N1	2018 08 19.45213	15 28 12.15	−13 21 08.4	15.6	N	K Q68
C/2018 N1	2018 08 19.45939	15 28 11.16	−13 20 57.0	15.8	N	K Q68
C/2018 N1	2018 08 21.27019	15 24 37.93	−12 40 15.1	15.6	o	T08
C/2018 N1	2018 08 21.28016	15 24 36.78	−12 40 02.3	15.7	o	T08
C/2018 N1	2018 08 21.28952	15 24 35.76	−12 39 50.1	15.7	o	T08
C/2018 N1	2018 08 26.86967	15 16 42.62	−11 02 34.2	16.3	N	9 G40
C/2018 N1	2018 08 26.87529	15 16 42.27	−11 02 29.1	16.3	N	9 G40
C/2018 N1	2018 08 26.88103	15 16 41.90	−11 02 24.3	16.3	N	9 G40
C/2018 N1	2018 08 28.87818	15 14 41.86	−10 35 24.5	16.0	N	J22
C/2018 N1	2018 08 28.87932	15 14 41.82	−10 35 23.9	16.0	N	J22
C/2018 N1	2018 08 28.88162	15 14 41.69	−10 35 22.6	16.0	N	J22
C/2018 N1	2018 08 30.24791	15 13 31.03	−10 18 42.7	16.1	o	T08
C/2018 N1	2018 08 30.25776	15 13 30.54	−10 18 35.7	16.0	o	T08
C/2018 N1	2018 08 30.26713	15 13 30.07	−10 18 29.2	16.1	o	T08
C/2018 N1	2018 08 30.27650	15 13 29.56	−10 18 22.1	16.1	o	T08
C/2018 N1	2018 08 30.28600	15 13 29.03	−10 18 15.8	16.3	o	T08
C/2018 N1	2018 09 03.87191	15 10 26.62	−09 31 12.3	16.3	N	J22
C/2018 N1	2018 09 03.87314	15 10 26.61	−09 31 09.9	16.3	N	J22
C/2018 N1	2018 09 03.87429	15 10 26.61	−09 31 08.3	16.3	N	J22
C/2018 N1	2018 09 05.80529	15 09 30.57	−09 14 41.9	17.2	R	K 215
C/2018 N1	2018 09 05.80666	15 09 30.52	−09 14 41.4			K 215
C/2018 N1	2018 09 05.80804	15 09 30.35	−09 14 37.4	17.7	R	K 215
C/2018 N1	2018 09 07.42145	15 08 51.14	−09 01 55.3	17.8	G	Q38
C/2018 N1	2018 09 07.42390	15 08 50.77	−09 01 51.0	16.7	G	Q38
C/2018 N1	2018 09 07.42634	15 08 50.78	−09 01 52.9	17.1	G	Q38
C/2018 N1	2018 09 07.42877	15 08 50.77	−09 01 52.1	17.0	G	Q38
C/2018 N1	2018 09 08.80515	15 08 22.73	−08 52 02.4	17.3	N	K77
C/2018 N1	2018 09 08.80596	15 08 21.85	−08 51 58.3	17.2	N	K77
C/2018 N1	2018 09 09.23208	15 08 14.25	−08 49 00.7	17.5	o	T05
C/2018 N1	2018 09 09.24115	15 08 14.08	−08 48 56.9	16.4	o	T05
C/2018 N1	2018 09 09.25150	15 08 13.86	−08 48 52.3	17.6	o	T05
C/2018 N1	2018 09 10.85233	15 07 47.41	−08 38 19.3	16.2	N	J22
C/2018 N1	2018 09 10.85626	15 07 47.23	−08 38 18.2	16.2	N	J22
C/2018 N1	2018 09 16.21845	15 06 51.99	−08 08 04.9	17.4	o	T05
C/2018 N1	2018 09 16.22365	15 06 51.93	−08 08 02.2	17.5	o	T05
C/2018 N1	2018 09 16.23112	15 06 51.85	−08 08 00.3	17.6	o	T05
C/2018 N1	2018 09 16.24188	15 06 51.82	−08 07 56.5	16.6	o	T05

C/2018 N2 (ASASSN)

C/2018 N2	2018 07 07.38822	03 07 32.96	−40 59 07.3	16.4	V	W87
C/2018 N2	2018 07 07.38949	03 07 32.86	−40 59 11.5	16.3	V	W87
C/2018 N2	2018 07 07.39076	03 07 33.20	−40 59 07.4	16.2	V	W87
C/2018 N2	2018 07 10.40014	03 08 43.15	−41 04 23.0	16.7	g	W87
C/2018 N2	2018 07 10.40136	03 08 43.35	−41 04 28.0	16.6	g	W87
C/2018 N2	2018 07 10.40258	03 08 43.21	−41 04 27.1	16.7	g	W87
C/2018 N2	2018 07 11.42509	03 09 05.90	−41 06 26.0	16.4	g	W87
C/2018 N2	2018 07 11.42631	03 09 05.71	−41 06 26.0	16.3	g	W87
C/2018 N2	2018 07 11.42752	03 09 05.78	−41 06 27.7	16.5	g	W87
C/2018 N2	2018 07 14.72116	03 10 13.71	−41 13 41.2	16.3	V	N Q62
C/2018 N2	2018 07 14.72368	03 10 13.77	−41 13 41.6	16.2	V	N Q62
C/2018 N2	2018 07 14.76964	03 10 14.61	−41 13 48.6	16.1	G	Q Q62
C/2018 N2	2018 07 14.77005	03 10 14.63	−41 13 48.9	15.9	V	? Q62
C/2018 N2	2018 07 14.77162	03 10 14.67	−41 13 49.1	15.9	V	? Q62
C/2018 N2	2018 07 14.77319	03 10 14.69	−41 13 49.2	15.9	V	? Q62
C/2018 N2	2018 07 14.77477	03 10 14.78	−41 13 49.2	15.9	V	? Q62
C/2018 N2	2018 07 14.77633	03 10 14.78	−41 13 50.1	15.9	V	? Q62
C/2018 N2	2018 07 14.77761	03 10 14.78	−41 13 50.2	16.5	G	25 Q62
C/2018 N2	2018 07 14.77789	03 10 14.80	−41 13 49.9	15.9	V	? Q62
C/2018 N2	2018 07 14.78171	03 10 14.87	−41 13 50.5	16.4	G	25 Q62
C/2018 N2	2018 07 14.78686	03 10 14.95	−41 13 51.2	16.4	V	N Q62
C/2018 N2	2018 07 14.79072	03 10 15.01	−41 13 51.7	16.1	G	Q Q62
C/2018 N2	2018 07 14.79663	03 10 15.09	−41 13 52.1			1 Q62
C/2018 N2	2018 07 14.81255	03 10 15.43	−41 13 55.0	16.2	G	Q Q62
C/2018 N2	2018 07 14.81417	03 10 15.46	−41 13 55.1	16.2	G	Q Q62
C/2018 N2	2018 07 14.81440	03 10 15.46	−41 13 55.1			1 Q62
C/2018 N2	2018 07 14.81631	03 10 15.50	−41 13 55.0	16.1	w	1 Q62
C/2018 N2	2018 07 15.22442	03 10 23.37	−41 14 53.9	17.3	R	Y00
C/2018 N2	2018 07 15.26293	03 10 24.00	−41 15 00.4	17.4	R	Y00
C/2018 N2	2018 07 15.27781	03 10 24.34	−41 15 02.2	17.2	R	Y00
C/2018 N2	2018 07 15.31380	03 10 25.05	−41 15 07.8	15.9	R	X74
C/2018 N2	2018 07 15.33632	03 10 25.46	−41 15 10.9	15.8	R	X74
C/2018 N2	2018 07 15.35875	03 10 25.84	−41 15 14.9	15.9	R	X74
C/2018 N2	2018 07 15.69221	03 10 32.30	−41 16 02.9	16.5	G	0 Q62
C/2018 N2	2018 07 15.69663	03 10 32.40	−41 16 03.7	17.0	G	0 Q62

C/2018 N2	2018 07 16.33269	03 10 44.03	−41 17 40.3	17.1	R		Y00
C/2018 N2	2018 07 16.34592	03 10 44.28	−41 17 42.0	17.1	R		Y00
C/2018 N2	2018 07 16.36043	03 10 44.54	−41 17 44.1	17.1	R		Y00
C/2018 N2	2018 07 24.38225	03 12 47.61	−41 41 31.1	15.8	T		3W88
C/2018 N2	2018 07 24.38553	03 12 47.66	−41 41 31.3	15.9	T		3W88
C/2018 N2	2018 07 24.41352	03 12 47.90	−41 41 37.3	15.9	T		13W88
C/2018 N2	2018 07 24.43107	03 12 48.12	−41 41 40.4	16.0	T		13W88
C/2018 N2	2018 08 09.67751	03 14 07.27	−42 48 04.6	16.2	G		Q38
C/2018 N2	2018 08 09.68438	03 14 07.42	−42 48 05.9	16.8	G		Q38
C/2018 N2	2018 08 12.66825	03 13 52.97	−43 02 32.6	15.9	N		Q68
C/2018 N2	2018 08 12.79286	03 13 52.17	−43 03 09.6	15.9	N		323
C/2018 N2	2018 08 12.80477	03 13 52.00	−43 03 13.4	15.8	N		Q68
C/2018 N2	2018 08 12.83922	03 13 51.78	−43 03 23.0	15.9	N		323
C/2018 N2	2018 08 14.37468	03 13 40.29	−43 11 02.9	15.9	N		KW96
C/2018 N2	2018 08 14.40674	03 13 39.98	−43 11 12.5	15.8	N		KW96
C/2018 N2	2018 08 16.65710	03 13 18.24	−43 22 38.9	15.8	N		Q68
C/2018 N2	2018 08 16.69369	03 13 17.89	−43 22 49.4	15.8	N		Q68
C/2018 N2	2018 08 17.30971	03 13 10.86	−43 26 01.1	15.8	T		13W88
C/2018 N2	2018 08 17.32667	03 13 10.71	−43 26 05.5	15.2	T		13W88
C/2018 N2	2018 08 17.65987	03 13 06.67	−43 27 48.5	15.8	N		Q68
C/2018 N2	2018 08 17.70173	03 13 06.14	−43 28 01.8	15.8	N		Q68
C/2018 N2	2018 08 18.71416	03 12 53.17	−43 33 18.3	15.9	N		323
C/2018 N2	2018 08 18.75924	03 12 52.54	−43 33 32.1	15.8	N		323
C/2018 N2	2018 08 19.66714	03 12 39.79	−43 38 18.3	15.8	N		Q68
C/2018 N2	2018 08 19.70927	03 12 39.13	−43 38 31.9	15.8	N		Q68
C/2018 N2	2018 08 20.24718	03 12 31.15	−43 41 21.7	15.2	T		13W88
C/2018 N2	2018 08 20.26088	03 12 30.91	−43 41 26.6	15.3	T		13W88
C/2018 N2	2018 08 22.39145	03 11 55.32	−43 52 47.9	15.9	N		KW96
C/2018 N2	2018 08 22.40317	03 11 55.09	−43 52 51.2	15.9	N		KW96
C/2018 N2	2018 09 02.67970	03 07 09.43	−44 54 03.6	15.7	N		323
C/2018 N2	2018 09 02.72755	03 07 07.85	−44 54 19.7	15.8	N		323
C/2018 N2	2018 09 04.18773	03 06 17.97	−45 02 14.4	15.4	N		J22
C/2018 N2	2018 09 04.19580	03 06 17.87	−45 02 17.1	15.4	N		J22
C/2018 N2	2018 09 05.63427	03 05 25.96	−45 09 57.0	15.8	N		323
C/2018 N2	2018 09 05.80491	03 05 19.42	−45 10 51.9	15.8	N		323
C/2018 N2	2018 09 06.31770	03 05 00.17	−45 13 36.3	15.7	N		3W88
C/2018 N2	2018 09 06.32304	03 04 59.96	−45 13 37.9	15.8	N		3W88
C/2018 N2	2018 09 06.32882	03 04 59.72	−45 13 40.2	15.7	N		3W88
C/2018 N2	2018 09 08.77960	03 03 22.04	−45 26 32.5	15.7	N		323
C/2018 N2	2018 09 08.86553	03 03 18.48	−45 26 59.7	15.7	N		323
C/2018 N2	2018 09 10.55798	03 02 06.02	−45 35 41.2	15.5	N		Q68
C/2018 N2	2018 09 10.66431	03 02 01.26	−45 36 14.3	15.5	N		Q68
C/2018 N2	2018 09 11.06801	03 01 43.25	−45 38 14.5	16.9	R		Y00
C/2018 N2	2018 09 11.07719	03 01 42.74	−45 38 18.7	17.0	R		Y00
C/2018 N2	2018 09 11.08992	03 01 42.32	−45 38 22.8	16.7	R		Y00
C/2018 N2	2018 09 12.59786	03 00 33.01	−45 45 57.0	15.6	N		Q68
C/2018 N2	2018 09 12.66614	03 00 29.70	−45 46 17.1	15.5	N		Q68
C/2018 N2	2018 09 14.58613	02 58 56.62	−45 55 38.1	15.5	N		Q68
C/2018 N2	2018 09 14.66642	02 58 52.53	−45 56 01.6	15.5	N		Q68

C/2018 O1 (ATLAS)

C/2018 O1	2018 07 15.45741	21 58 45.96	+27 41 11.6	19.8			I41
C/2018 O1	2018 07 15.45787	21 58 45.74	+27 41 11.3	19.6			I41
C/2018 O1	2018 07 20.34830	21 18 53.46	+26 28 42.5	19.2			I41
C/2018 O1	2018 07 20.34920	21 18 52.95	+26 28 41.4	18.7		I	I41
C/2018 O1	2018 07 22.54515	20 58 02.04	+25 28 22.1	18.7	o		T08
C/2018 O1	2018 07 22.55244	20 57 57.72	+25 28 06.0	18.7	o		T08
C/2018 O1	2018 07 22.56451	20 57 50.53	+25 27 43.4	18.5	o		T08
C/2018 O1	2018 07 22.57295	20 57 45.46	+25 27 27.4	18.6	o		T08
C/2018 O1	2018 07 22.91677	20 54 21.43	+25 15 59.9	18.3	R	K	B49
C/2018 O1	2018 07 22.91760	20 54 20.90	+25 15 58.4	18.5	R	K	B49
C/2018 O1	2018 07 22.91953	20 54 19.74	+25 15 55.0	18.1	R	K	B49
C/2018 O1	2018 07 22.92320	20 54 17.54	+25 15 46.3	18.9	G	K	J77
C/2018 O1	2018 07 22.93711	20 54 09.14	+25 15 18.5	18.9	G	K	J77
C/2018 O1	2018 07 22.95125	20 54 00.62	+25 14 49.4	19.1	G	K	J77
C/2018 O1	2018 07 22.95826	20 53 56.40	+25 14 35.3	18.9	G	K	J77
C/2018 O1	2018 07 22.98613	20 53 39.60	+25 13 37.9			K	J95
C/2018 O1	2018 07 22.99560	20 53 33.85	+25 13 18.8			K	J95
C/2018 O1	2018 07 23.00238	20 53 29.79	+25 13 04.6			K	J95
C/2018 O1	2018 07 23.00783	20 53 26.46	+25 12 53.6			K	J95
C/2018 O1	2018 07 23.01373	20 53 22.90	+25 12 41.3	19.0	G	K	J95
C/2018 O1	2018 07 23.241362	20 51 05.66	+25 04 48.2	18.9	V	K	H21
C/2018 O1	2018 07 23.243462	20 51 04.37	+25 04 44.1	19.0	V	K	H21
C/2018 O1	2018 07 23.246086	20 51 02.78	+25 04 38.6	19.0	V	K	H21
C/2018 O1	2018 07 23.249055	20 51 00.97	+25 04 32.1	19.1	V	K	H21
C/2018 O1	2018 07 23.37477	20 49 44.43	+25 00 03.8	19.2		I	I41
C/2018 O1	2018 07 23.37522	20 49 44.14	+25 00 03.3	19.4			I41
C/2018 O1	2018 07 23.40262	20 49 27.32	+24 59 04.1				32H06
C/2018 O1	2018 07 23.40429	20 49 26.34	+24 59 00.3				32H06
C/2018 O1	2018 07 23.40596	20 49 25.31	+24 58 56.8	18.8			32H06
C/2018 O1	2018 07 23.84294	20 44 58.66	+24 42 39.6	18.3	G	K	595
C/2018 O1	2018 07 23.842993	20 44 58.60	+24 42 38.8	19.2	G	K	L01
C/2018 O1	2018 07 23.844424	20 44 57.66	+24 42 36.9	18.9	G	K	L01
C/2018 O1	2018 07 23.84447	20 44 57.68	+24 42 36.7	18.2	G	K	595
C/2018 O1	2018 07 23.845852	20 44 56.82	+24 42 33.6	19.1	G	p	L01
C/2018 O1	2018 07 23.84600	20 44 56.68	+24 42 33.7	17.7	G	K	595
C/2018 O1	2018 07 23.850178	20 44 54.12	+24 42 24.1	19.1	G	K	L01
C/2018 O1	2018 07 23.851621	20 44 53.20	+24 42 19.9	19.5	G	K	L01
C/2018 O1	2018 07 23.86495	20 44 45.12	+24 41 49.5	18.9	R	K	B37
C/2018 O1	2018 07 23.86659	20 44 44.06	+24 41 46.2	18.8	R	K	B49
C/2018 O1	2018 07 23.86782	20 44 43.28	+24 41 43.3	18.6	R	K	B49
C/2018 O1	2018 07 23.87339	20 44 39.59	+24 41 30.8			K	118
C/2018 O1	2018 07 23.88393	20 44 33.37	+24 41 06.5	19.0	R	K	B37
C/2018 O1	2018 07 23.88445	20 44 32.98	+24 41 05.2	18.7	V	K	C77
C/2018 O1	2018 07 23.89086	20 44 29.03	+24 40 51.7	18.2	R	K	B37
C/2018 O1	2018 07 23.89111	20 44 28.81	+24 40 50.6	19.1		K	104
C/2018 O1	2018 07 23.89134	20 44 28.63	+24 40 50.5	18.2	R	K	C10
C/2018 O1	2018 07 23.89221	20 44 28.22	+24 40 47.0	19.8	V	K	C77
C/2018 O1	2018 07 23.89373	20 44 27.16	+24 40 44.2	18.5	R	K	K38
C/2018 O1	2018 07 23.89426	20 44 26.89	+24 40 43.2	19.0		K	104
C/2018 O1	2018 07 23.89475	20 44 26.45	+24 40 41.5			K	118
C/2018 O1	2018 07 23.89899	20 44 23.88	+24 40 33.0	18.3	R	K	C10
C/2018 O1	2018 07 23.90137	20 44 22.56	+24 40 27.4	18.6	R	K	B37
C/2018 O1	2018 07 23.90372	20 44 20.97	+24 40 21.6	19.0		K	104
C/2018 O1	2018 07 23.90663	20 44 19.23	+24 40 15.2	18.4	R	K	C10
C/2018 O1	2018 07 23.91251	20 44 15.65	+24 40 01.0	18.1	R	K	K38

C/2018 O1	2018 07 23.92202	20 44 10.00	+24 39 38.2	18.4	R	K C10
C/2018 O1	2018 07 23.92360	20 44 08.72	+24 39 36.2	18.7	R	K 160
C/2018 O1	2018 07 23.92526	20 44 07.70	+24 39 32.3	18.4	R	K 160
C/2018 O1	2018 07 23.92579	20 44 07.39	+24 39 29.0			K J95
C/2018 O1	2018 07 23.92690	20 44 06.64	+24 39 28.5	18.9	R	K 160
C/2018 O1	2018 07 23.92741	20 44 06.31	+24 39 25.6	18.6	G	K K87
C/2018 O1	2018 07 23.92773	20 44 06.28	+24 39 24.7	18.1	R	K C10
C/2018 O1	2018 07 23.93004	20 44 04.68	+24 39 19.5	19.3	G	K K87
C/2018 O1	2018 07 23.93130	20 44 03.90	+24 39 16.8	18.2	R	K K38
C/2018 O1	2018 07 23.93146	20 44 03.75	+24 39 16.1	18.6	G	K K87
C/2018 O1	2018 07 23.93247	20 44 03.16	+24 39 13.9	18.7	G	K K87
C/2018 O1	2018 07 23.93344	20 44 02.65	+24 39 12.0	18.2	R	K C10
C/2018 O1	2018 07 23.93400	20 44 02.30	+24 39 10.1			K J95
C/2018 O1	2018 07 23.94528	20 43 55.28	+24 38 43.9			K J95
C/2018 O1	2018 07 23.95998	20 43 46.10	+24 38 11.2			K 204
C/2018 O1	2018 07 23.97326	20 43 37.79	+24 37 40.2	19.5	G	K K87
C/2018 O1	2018 07 23.979463	20 43 34.06	+24 37 24.0	18.8	G	K Z80
C/2018 O1	2018 07 23.98476	20 43 30.69	+24 37 13.7			K 204
C/2018 O1	2018 07 23.99011	20 43 27.31	+24 37 01.6	18.0	R	K K38
C/2018 O1	2018 07 23.99259	20 43 25.92	+24 36 54.4	18.9	G	K J95
C/2018 O1	2018 07 23.99335	20 43 25.33	+24 36 54.0			K 204
C/2018 O1	2018 07 23.996934	20 43 23.18	+24 36 41.7	18.7	G	K Z80
C/2018 O1	2018 07 23.99797	20 43 22.43	+24 36 42.0	19.1	G	K K87
C/2018 O1	2018 07 24.00177	20 43 20.10	+24 36 34.3			K 204
C/2018 O1	2018 07 24.01044	20 43 14.71	+24 36 13.9	19.0	G	K 204
C/2018 O1	2018 07 24.013098	20 43 13.20	+24 36 05.8	18.6	G	K Z80
C/2018 O1	2018 07 24.14265	20 41 52.42	+24 31 05.8	19.3	V	9 G40
C/2018 O1	2018 07 24.15113	20 41 47.10	+24 30 46.4	19.3	V	9 G40
C/2018 O1	2018 07 24.47635	20 38 24.20	+24 17 36.4	19.4	R	K 291
C/2018 O1	2018 07 24.47703	20 38 23.75	+24 17 34.4	18.8	R	K 291
C/2018 O1	2018 07 24.47801	20 38 23.10	+24 17 32.3	19.2	R	K 291
C/2018 O1	2018 07 24.87799	20 34 12.48	+24 00 40.2	18.4	R	K K38
C/2018 O1	2018 07 24.89077	20 34 04.32	+24 00 06.9	18.0	R	K K38
C/2018 O1	2018 07 24.90314	20 33 56.42	+23 59 34.0	19.3	G	K C47
C/2018 O1	2018 07 24.90802	20 33 53.29	+23 59 21.1	19.0	G	K C47
C/2018 O1	2018 07 24.91290	20 33 50.20	+23 59 08.5	18.9	G	K C47
C/2018 O1	2018 07 24.91779	20 33 47.09	+23 58 56.0	19.0	G	K C47
C/2018 O1	2018 07 24.92267	20 33 43.99	+23 58 43.3	19.1	G	K C47
C/2018 O1	2018 07 24.95662	20 33 22.52	+23 57 14.5			K J95
C/2018 O1	2018 07 24.96930	20 33 14.47	+23 56 41.2			K J95
C/2018 O1	2018 07 24.98220	20 33 06.26	+23 56 07.9	19.1	G	K J95
C/2018 O1	2018 07 25.02994	20 32 35.71	+23 54 02.6	18.7	G	K K87
C/2018 O1	2018 07 25.03186	20 32 34.48	+23 53 57.9	19.1	G	K K87
C/2018 O1	2018 07 25.03197	20 32 34.42	+23 53 57.3	18.8	G	K K87
C/2018 O1	2018 07 25.04410	20 32 26.68	+23 53 25.7	19.0	G	K K87
C/2018 O1	2018 07 25.05405	20 32 20.35	+23 52 59.4	18.5	G	K K87
C/2018 O1	2018 07 25.05594	20 32 19.14	+23 52 54.4	19.3	G	K K87
C/2018 O1	2018 07 25.05607	20 32 19.05	+23 52 54.0	19.0	G	K K87
C/2018 O1	2018 07 25.05810	20 32 17.77	+23 52 48.8	19.5	G	K K87
C/2018 O1	2018 07 25.06012	20 32 16.46	+23 52 43.5	19.4	G	K K87
C/2018 O1	2018 07 25.21449	20 30 39.07	+23 45 55.8			28 695
C/2018 O1	2018 07 25.21573	20 30 38.26	+23 45 52.6	18.9	R	28 695
C/2018 O1	2018 07 25.21698	20 30 37.47	+23 45 49.4	19.1	R	28 695
C/2018 O1	2018 07 25.91601	20 23 09.13	+23 13 21.9	19.6	R	K B37
C/2018 O1	2018 07 25.92959	20 23 00.35	+23 12 42.7	19.6	R	K B37
C/2018 O1	2018 07 25.93041	20 22 59.74	+23 12 39.3	18.6	R	K B37
C/2018 O1	2018 07 25.93124	20 22 59.16	+23 12 36.0	18.0	V	K 104
C/2018 O1	2018 07 25.94413	20 22 50.89	+23 12 01.2	19.5	R	K B37
C/2018 O1	2018 07 25.94644	20 22 49.42	+23 11 51.2			K J95
C/2018 O1	2018 07 25.94804	20 22 48.29	+23 11 47.8	18.3	V	K 104
C/2018 O1	2018 07 25.95539	20 22 43.46	+23 11 26.5	18.1	V	K 104
C/2018 O1	2018 07 25.95843	20 22 41.66	+23 11 15.8			K J95
C/2018 O1	2018 07 25.96946	20 22 34.47	+23 10 44.4	18.8	G	K J95
C/2018 O1	2018 07 25.98934	20 22 21.41	+23 09 47.7	19.9	G	K K87
C/2018 O1	2018 07 25.99015	20 22 20.88	+23 09 45.0	19.9	G	K K87
C/2018 O1	2018 07 25.99137	20 22 20.11	+23 09 41.2	19.5	G	K K87
C/2018 O1	2018 07 25.99239	20 22 19.45	+23 09 38.7	19.8	G	K K87
C/2018 O1	2018 07 25.99361	20 22 18.65	+23 09 35.2	19.5	G	K K87
C/2018 O1	2018 07 26.10722	20 21 05.72	+23 04 03.7	18.8	V	K W25
C/2018 O1	2018 07 26.12150	20 20 56.46	+23 03 22.0	18.2	V	K W25
C/2018 O1	2018 07 26.85072	20 13 01.66	+22 26 17.3	19.9	R	K B37
C/2018 O1	2018 07 26.85833	20 12 56.69	+22 25 52.0	19.5	R	K B37
C/2018 O1	2018 07 26.89437	20 12 32.91	+22 24 00.0	19.9	R	K B37
C/2018 O1	2018 07 27.32944	20 07 46.91	+22 00 36.1	18.7	R	28 695
C/2018 O1	2018 07 27.33129	20 07 45.68	+22 00 30.1	18.5	R	28 695
C/2018 O1	2018 07 29.85154	19 39 56.85	+19 27 55.9	19.2	R	K B37
C/2018 O1	2018 07 29.87523	19 39 41.08	+19 26 22.5	19.0	R	K B37
C/2018 O1	2018 07 29.88361	19 39 35.41	+19 25 47.9	18.4		K 215
C/2018 O1	2018 07 29.88874	19 39 31.97	+19 25 28.2	17.9		K 215
C/2018 O1	2018 07 29.89131	19 39 30.22	+19 25 18.7	18.0		K 215
C/2018 O1	2018 07 29.90669	19 39 20.07	+19 24 18.3	19.1	R	K B37
C/2018 O1	2018 07 29.90858	19 39 18.82	+19 24 10.4	18.0	R	K K38
C/2018 O1	2018 07 29.91689	19 39 13.24	+19 23 38.1	18.5	R	K K38
C/2018 O1	2018 07 29.92666	19 39 06.77	+19 22 58.9	19.0	R	K B37
C/2018 O1	2018 07 29.929301	19 39 04.89	+19 22 47.8	18.9	V	K L01
C/2018 O1	2018 07 29.933293	19 39 02.24	+19 22 31.6	19.0	V	K L01
C/2018 O1	2018 07 29.935289	19 39 00.94	+19 22 24.0	19.0	V	K L01
C/2018 O1	2018 07 29.94565	19 38 54.10	+19 21 44.3	19.1	R	K B37
C/2018 O1	2018 07 29.95829	19 38 45.59	+19 20 53.1	18.5	R	K K38
C/2018 O1	2018 07 29.95877	19 38 45.40	+19 20 51.6	19.1	R	K B37
C/2018 O1	2018 07 30.86583	19 28 46.05	+18 19 15.2	18.4	V	K L04
C/2018 O1	2018 07 30.87245	19 28 41.64	+18 18 47.4	18.3	V	K L04
C/2018 O1	2018 07 30.88068	19 28 36.18	+18 18 13.1	18.5	V	K L04
C/2018 O1	2018 07 31.89510	19 17 32.28	+17 06 01.1			K J95
C/2018 O1	2018 07 31.89870	19 17 29.77	+17 05 47.0	17.2	R	K K38
C/2018 O1	2018 07 31.92086	19 17 15.32	+17 04 09.5	17.5	R	K K38
C/2018 O1	2018 07 31.92088	19 17 15.44	+17 04 08.6			K J95
C/2018 O1	2018 07 31.92541	19 17 12.36	+17 03 50.4	16.5	R	K K63
C/2018 O1	2018 07 31.92718	19 17 11.26	+17 03 40.5	16.2	R	K K63
C/2018 O1	2018 07 31.92914	19 17 09.90	+17 03 33.9	17.3	R	K K63
C/2018 O1	2018 07 31.94499	19 16 59.60	+17 02 24.1	17.2	R	K K38
C/2018 O1	2018 07 31.95085	19 16 55.86	+17 01 57.6	18.5	G	K J95
C/2018 O1	2018 07 31.95329	19 16 54.16	+17 01 47.6	17.7	R	K K38
C/2018 O1	2018 07 31.96712	19 16 45.09	+17 00 47.7	17.8	R	K K38
C/2018 O1	2018 07 31.99770	19 16 25.17	+16 58 33.6	17.6	R	K K38
C/2018 O1	2018 08 01.91570	19 06 33.97	+15 50 31.0	18.9	V	K C43

C/2018 O1	2018 08 01.91670	19 06 33.30	+15 50 26.1	18.9	V	K	C43
C/2018 O1	2018 08 01.91770	19 06 32.64	+15 50 21.5	18.7	V	K	C43
C/2018 O1	2018 08 01.91871	19 06 32.01	+15 50 17.7	18.6	V	K	C43
C/2018 O1	2018 08 01.91981	19 06 31.29	+15 50 12.5	18.7	V	K	C43
C/2018 O1	2018 08 02.05485	19 05 04.97	+15 40 06.3	17.4	T		20G40
C/2018 O1	2018 08 02.11718	19 04 25.03	+15 35 23.0	17.3	T		20G40
C/2018 O1	2018 08 02.16060	19 03 58.19	+15 32 04.7	18.9	G		H36
C/2018 O1	2018 08 02.16249	19 03 56.98	+15 31 56.5	18.7	G		H36
C/2018 O1	2018 08 02.16628	19 03 54.48	+15 31 39.1	18.7	G		H36
C/2018 O1	2018 08 02.98026	18 55 21.71	+14 29 23.3			K	J95
C/2018 O1	2018 08 02.99216	18 55 14.27	+14 28 29.0			K	Z80
C/2018 O1	2018 08 02.99634	18 55 11.62	+14 28 09.3			K	J95
C/2018 O1	2018 08 03.00042	18 55 09.06	+14 27 49.8	18.3	G	K	Z80
C/2018 O1	2018 08 03.00530	18 55 06.01	+14 27 27.6	18.5	G	K	J95
C/2018 O1	2018 08 03.00877	18 55 03.82	+14 27 11.7	18.9	G	K	Z80
C/2018 O1	2018 08 03.01905	18 54 57.39	+14 26 23.7	18.7	G	K	Z80
C/2018 O1	2018 08 03.02765	18 54 52.05	+14 25 44.0	18.5	G	K	Z80
C/2018 O1	2018 08 03.39730	18 51 02.60	+13 57 10.6	17.9	R		291
C/2018 O1	2018 08 03.39830	18 51 02.02	+13 57 05.5	17.8	R		291
C/2018 O1	2018 08 03.39931	18 51 01.37	+13 57 01.2	18.0	R		291
C/2018 O1	2018 08 03.84294	18 46 30.24	+13 22 26.6	19.2	V	K	A71
C/2018 O1	2018 08 03.84461	18 46 29.17	+13 22 19.1	18.1	V	K	A71
C/2018 O1	2018 08 03.86563	18 46 16.40	+13 20 40.5	19.2	G	K	K87
C/2018 O1	2018 08 03.86579	18 46 16.26	+13 20 40.3			K	160
C/2018 O1	2018 08 03.86645	18 46 15.86	+13 20 35.9	19.1	G	K	K87
C/2018 O1	2018 08 03.86685	18 46 15.61	+13 20 34.0	19.3	G	K	K87
C/2018 O1	2018 08 03.86686	18 46 15.61	+13 20 35.2	18.6	R	K	160
C/2018 O1	2018 08 03.86793	18 46 14.95	+13 20 30.2	19.2	R	K	160
C/2018 O1	2018 08 03.87007	18 46 13.66	+13 20 20.2			K	160
C/2018 O1	2018 08 03.87223	18 46 12.32	+13 20 10.6			K	160
C/2018 O1	2018 08 03.89008	18 46 01.30	+13 18 46.1	17.8	R	K	K88
C/2018 O1	2018 08 03.89145	18 46 00.48	+13 18 39.7	18.0	R	K	K88
C/2018 O1	2018 08 03.89306	18 45 59.48	+13 18 32.0	18.3	R	K	K88
C/2018 O1	2018 08 03.89443	18 45 58.67	+13 18 25.6	18.3	R	K	K88
C/2018 O1	2018 08 03.89581	18 45 57.81	+13 18 19.3	18.1	R	K	K88
C/2018 O1	2018 08 03.90525	18 45 52.10	+13 17 34.2	19.0	G	K	C47
C/2018 O1	2018 08 03.90869	18 45 49.97	+13 17 18.7	18.3	G	K	C47
C/2018 O1	2018 08 03.91213	18 45 47.88	+13 17 02.2	18.7	G	K	C47
C/2018 O1	2018 08 03.91625	18 45 45.35	+13 16 43.0	18.0	G	K	C47
C/2018 O1	2018 08 03.971413	18 45 11.68	+13 12 25.1	18.6	V	K	L01
C/2018 O1	2018 08 03.972357	18 45 11.10	+13 12 20.5	18.8	V	K	L01
C/2018 O1	2018 08 03.974722	18 45 09.69	+13 12 08.9	18.8	V	I	L01
C/2018 O1	2018 08 03.97759	18 45 08.18	+13 11 59.2	18.4	R	K	J22
C/2018 O1	2018 08 03.98046	18 45 06.47	+13 11 45.9			K	J22
C/2018 O1	2018 08 03.98334	18 45 04.73	+13 11 32.1	18.7	R	K	J22
C/2018 O1	2018 08 04.16141	18 43 17.08	+12 57 35.1	18.2	R	K	850
C/2018 O1	2018 08 04.18163	18 43 04.74	+12 56 00.1	18.0	R	K	850
C/2018 O1	2018 08 04.21216	18 42 46.25	+12 53 36.6	17.8	R	K	850
C/2018 O1	2018 08 04.47972	18 40 06.26	+12 32 37.6	18.5	R		P93
C/2018 O1	2018 08 04.48617	18 40 02.33	+12 32 07.1	18.5	R		P93
C/2018 O1	2018 08 04.50735	18 39 49.59	+12 30 27.7	17.5	R		P93
C/2018 O1	2018 08 04.84921	18 36 26.72	+12 03 34.1	18.7	G	K	587
C/2018 O1	2018 08 04.84968	18 36 26.42	+12 03 31.8			K	587
C/2018 O1	2018 08 04.85835	18 36 21.25	+12 02 52.3	18.1	R	K	157
C/2018 O1	2018 08 04.86929	18 36 14.70	+12 02 00.6	18.3	R	K	157
C/2018 O1	2018 08 04.93893	18 35 33.42	+11 56 30.9	18.1	R	K	K88
C/2018 O1	2018 08 04.94038	18 35 32.56	+11 56 23.7	18.1	R	K	K88
C/2018 O1	2018 08 04.94182	18 35 31.79	+11 56 16.9	17.9	R	K	K88
C/2018 O1	2018 08 04.94274	18 35 31.34	+11 56 13.6	18.5	R	K	B74
C/2018 O1	2018 08 04.94324	18 35 30.85	+11 56 10.7	18.1	R	K	K88
C/2018 O1	2018 08 04.94566	18 35 29.54	+11 55 59.2	18.6	R	K	B74
C/2018 O1	2018 08 04.95969	18 35 21.32	+11 54 53.6	18.6	R	K	B74
C/2018 O1	2018 08 05.10970	18 33 53.65	+11 43 08.2	18.5	R	K	850
C/2018 O1	2018 08 05.12992	18 33 41.73	+11 41 32.3	18.0	R	K	850
C/2018 O1	2018 08 05.15012	18 33 29.89	+11 39 57.0	17.9	R	K	850
C/2018 O1	2018 08 05.16996	18 33 18.18	+11 38 23.7	17.9	R	K	850
C/2018 O1	2018 08 05.90571	18 26 14.91	+10 40 36.5	16.9	R		C23
C/2018 O1	2018 08 05.90721	18 26 13.98	+10 40 29.0	16.9	R		C23
C/2018 O1	2018 08 05.90870	18 26 13.15	+10 40 21.7	17.1	R		C23
C/2018 O1	2018 08 05.93632	18 25 56.73	+10 38 06.6	18.4	R		B96
C/2018 O1	2018 08 05.93966	18 25 54.99	+10 37 51.9	18.3	R		B96
C/2018 O1	2018 08 05.94300	18 25 53.02	+10 37 34.9	18.5	R		B96
C/2018 O1	2018 08 05.95015	18 25 48.95	+10 37 02.0	18.1	R		B96
C/2018 O1	2018 08 06.41426	18 21 27.64	+10 00 45.2	18.1	o		T08
C/2018 O1	2018 08 06.42474	18 21 21.76	+09 59 56.3	18.2	o		T08
C/2018 O1	2018 08 06.44606	18 21 09.79	+09 58 15.8	17.7	o		T08
C/2018 O1	2018 08 07.17606	18 14 29.68	+09 01 22.9			K	711
C/2018 O1	2018 08 07.17857	18 14 28.29	+09 01 11.2			K	711
C/2018 O1	2018 08 07.18104	18 14 26.95	+09 00 59.8			K	711
C/2018 O1	2018 08 08.16346	18 05 46.90	+07 45 25.3			K	711
C/2018 O1	2018 08 08.16615	18 05 45.50	+07 45 13.1			K	711
C/2018 O1	2018 08 08.16893	18 05 44.05	+07 45 00.5			K	711
C/2018 O1	2018 08 08.40864	18 03 40.13	+07 26 48.2	18.9	c		T05
C/2018 O1	2018 08 08.41935	18 03 34.62	+07 25 59.1	18.2	c		T05
C/2018 O1	2018 08 08.43004	18 03 29.10	+07 25 10.2	18.7	c		T05
C/2018 O1	2018 08 08.44075	18 03 23.60	+07 24 21.8	18.1	c		T05
C/2018 O1	2018 08 08.51861	18 02 44.26	+07 18 25.8	17.7	R	K	Q11
C/2018 O1	2018 08 08.52928	18 02 38.75	+07 17 37.5			K	Q11
C/2018 O1	2018 08 08.53428	18 02 36.20	+07 17 14.5			K	Q11
C/2018 O1	2018 08 08.86182	17 59 50.69	+06 52 29.6	17.7	N	K	C23
C/2018 O1	2018 08 08.86456	17 59 49.17	+06 52 17.8	17.2	N	K	C23
C/2018 O1	2018 08 08.86730	17 59 47.91	+06 52 06.1	17.6	N	K	C23
C/2018 O1	2018 08 08.93874	17 59 11.93	+06 46 44.4	18.2	R		B96
C/2018 O1	2018 08 08.94303	17 59 09.64	+06 46 24.3	17.5	R		B96
C/2018 O1	2018 08 08.95106	17 59 05.76	+06 45 44.8	17.8	R		B96
C/2018 O1	2018 08 08.95855	17 59 01.82	+06 45 14.9	17.9	R		B96
C/2018 O1	2018 08 09.16599	17 57 19.02	+06 29 48.1			K	711
C/2018 O1	2018 08 09.16912	17 57 17.46	+06 29 34.0			K	711
C/2018 O1	2018 08 09.17157	17 57 16.24	+06 29 23.1			K	711
C/2018 O1	2018 08 09.86965	17 51 36.49	+05 37 47.6	19.3	R	K	160
C/2018 O1	2018 08 09.87243	17 51 35.13	+05 37 35.2	19.2	R	K	160
C/2018 O1	2018 08 09.87381	17 51 34.48	+05 37 29.0	19.3	R	K	160
C/2018 O1	2018 08 09.87521	17 51 33.80	+05 37 23.0	18.4	R	K	160
C/2018 O1	2018 08 09.87797	17 51 32.46	+05 37 10.4	19.3	R	K	160
C/2018 O1	2018 08 09.94444	17 51 00.69	+05 32 18.5			K	J95
C/2018 O1	2018 08 09.95713	17 50 54.58	+05 31 23.0			K	J95

C/2018 O1	2018 08 09.96411	17 50 51.28	+05 30 52.3			K	J95
C/2018 O1	2018 08 09.97429	17 50 46.39	+05 30 08.0	18.6	G	K	J95
C/2018 O1	2018 08 10.20013	17 48 59.74	+05 13 44.2			1	658
C/2018 O1	2018 08 10.20078	17 48 59.44	+05 13 41.3			1	658
C/2018 O1	2018 08 10.20206	17 48 58.82	+05 13 35.4			1	658
C/2018 O1	2018 08 10.20270	17 48 58.53	+05 13 32.5			1	658
C/2018 O1	2018 08 10.20334	17 48 58.21	+05 13 29.8			1	658
C/2018 O1	2018 08 10.86653	17 43 51.04	+04 25 56.7	18.0	R	K	K38
C/2018 O1	2018 08 10.89144	17 43 39.65	+04 24 10.6	18.3	R	K	K38
C/2018 O1	2018 08 10.89864	17 43 36.40	+04 23 39.3	18.5	G	K	J77
C/2018 O1	2018 08 10.90790	17 43 32.16	+04 23 00.0	18.7	G	K	J77
C/2018 O1	2018 08 10.91550	17 43 28.54	+04 22 28.4	18.5	R	K	160
C/2018 O1	2018 08 10.91648	17 43 28.19	+04 22 24.7	17.1	R	K	K38
C/2018 O1	2018 08 10.91835	17 43 27.24	+04 22 16.4	18.1	R	K	160
C/2018 O1	2018 08 10.91838	17 43 27.37	+04 22 15.5	18.7	G	K	J77
C/2018 O1	2018 08 10.92120	17 43 25.94	+04 22 04.3	18.3	R	K	160
C/2018 O1	2018 08 10.92196	17 43 25.73	+04 22 00.0	18.9	G	K	J77
C/2018 O1	2018 08 10.92403	17 43 24.65	+04 21 52.3	19.2	R	K	160
C/2018 O1	2018 08 10.92474	17 43 24.45	+04 21 48.4	18.7	G	K	J77
C/2018 O1	2018 08 10.92685	17 43 23.35	+04 21 39.6	19.4	R	K	160
C/2018 O1	2018 08 10.95595	17 43 10.80	+04 19 50.3	18.3	V	K	I19
C/2018 O1	2018 08 10.95838	17 43 09.62	+04 19 40.2	18.4	V	K	I19
C/2018 O1	2018 08 10.96102	17 43 08.47	+04 19 28.9	18.1	V	K	I19
C/2018 O1	2018 08 11.87615	17 36 22.94	+03 15 31.6	17.7	R	K	K38
C/2018 O1	2018 08 11.89347	17 36 15.31	+03 14 21.2	17.8	R	K	K38
C/2018 O1	2018 08 11.91325	17 36 06.76	+03 12 59.7	18.2	R	K	K38
C/2018 O1	2018 08 12.37857	17 32 48.28	+02 41 30.3	18.3	c		T05
C/2018 O1	2018 08 12.38933	17 32 43.74	+02 40 46.7	18.3	c		T05
C/2018 O1	2018 08 12.40012	17 32 39.13	+02 40 03.6	18.7	c		T05
C/2018 O1	2018 08 12.41092	17 32 34.58	+02 39 19.8	18.8	c		T05
C/2018 O1	2018 08 13.295889	17 26 31.591	+01 40 54.80	18.8	G		F51
C/2018 O1	2018 08 13.307986	17 26 26.642	+01 40 06.89	18.3	G		F51
C/2018 O1	2018 08 13.320090	17 26 21.804	+01 39 20.74	18.9	G		F51
C/2018 O1	2018 08 13.333526	17 26 16.369	+01 38 28.30	18.8	G		F51
C/2018 O1	2018 08 13.45285	17 25 28.93	+01 30 55.2			K	E23
C/2018 O1	2018 08 13.47428	17 25 20.30	+01 29 33.3	19.8	V	K	E23
C/2018 O1	2018 08 13.48813	17 25 14.80	+01 28 39.4	19.6	V	K	E23
C/2018 O1	2018 08 14.20721	17 20 35.21	+00 42 53.4			11	673
C/2018 O1	2018 08 14.34982	17 19 40.77	+00 34 01.7	18.7	o		T08
C/2018 O1	2018 08 14.36020	17 19 36.87	+00 33 23.8	18.1	o		T08
C/2018 O1	2018 08 14.37121	17 19 32.54	+00 32 43.4	18.5	o		T08
C/2018 O1	2018 08 14.38157	17 19 28.74	+00 32 04.2	18.4	o		T08
C/2018 O1	2018 08 14.82294	17 16 44.37	+00 04 54.3	18.4	V	K	C95
C/2018 O1	2018 08 14.83065	17 16 41.54	+00 04 26.6	18.4	V	K	C95
C/2018 O1	2018 08 14.83836	17 16 38.67	+00 03 58.5	18.5	V	K	C95
C/2018 O1	2018 08 14.84651	17 16 35.66	+00 03 29.1	18.6	V	K	C95
C/2018 O1	2018 08 14.85422	17 16 32.80	+00 03 00.8	18.0	V	K	C95
C/2018 O1	2018 08 14.86194	17 16 29.92	+00 02 32.4	18.4	V	K	C95
C/2018 O1	2018 08 16.78410	17 05 19.65	−01 49 03.1	19.4	G	K	L29
C/2018 O1	2018 08 16.78717	17 05 18.62	−01 49 13.3	18.7	G	K	L29
C/2018 O1	2018 08 16.79019	17 05 17.59	−01 49 23.4	18.9	G	K	L29
C/2018 O1	2018 08 16.79327	17 05 16.57	−01 49 33.7	19.0	G	K	L29
C/2018 O1	2018 08 16.81834	17 05 08.36	−01 51 06.6	18.6	R	K	160
C/2018 O1	2018 08 16.82314	17 05 06.75	−01 51 22.4	18.8	R	K	160
C/2018 O1	2018 08 16.82809	17 05 05.15	−01 51 39.4	18.5	R	K	160
C/2018 O1	2018 08 17.54753	17 01 12.78	−02 30 54.1				372
C/2018 O1	2018 08 17.55270	17 01 11.06	−02 31 10.1				372
C/2018 O1	2018 08 17.55654	17 01 09.86	−02 31 23.1	18.3	T		372
C/2018 O1	2018 08 17.86406	16 59 33.75	−02 47 48.0	17.1	N	K	C23
C/2018 O1	2018 08 17.86983	16 59 31.99	−02 48 06.0	17.3	N	K	C23
C/2018 O1	2018 08 17.87416	16 59 30.56	−02 48 19.0	17.3	N	K	C23

P/2018 P3 (PANSTARRS)

P/2018 P3	2018 08 08.54438	00 14 07.672	−17 14 22.51	21.0	w		F51
P/2018 P3	2018 08 08.55556	00 14 07.993	−17 14 24.62	20.9	w		F51
P/2018 P3	2018 08 08.56676	00 14 08.316	−17 14 26.77	20.8	w		F51
P/2018 P3	2018 08 08.57793	00 14 08.639	−17 14 28.81	20.8	w		F51
P/2018 P3	2018 08 10.42287	00 15 05.34	−17 20 26.2	20.0	G	K	734
P/2018 P3	2018 08 10.42762	00 15 05.45	−17 20 27.0	20.0	G	K	734
P/2018 P3	2018 08 10.43238	00 15 05.58	−17 20 27.8	20.0	G	K	734
P/2018 P3	2018 08 10.551909	00 15 09.180	−17 20 49.77	20.8	G	29	568
P/2018 P3	2018 08 10.552864	00 15 09.203	−17 20 49.96	20.5	G	29	568
P/2018 P3	2018 08 10.553814	00 15 09.227	−17 20 50.15	20.6	G	29	568
P/2018 P3	2018 08 12.62745	00 16 04.55	−17 27 45.1			1	Q62
P/2018 P3	2018 08 12.63122	00 16 04.62	−17 27 45.6	20.9		1	Q62
P/2018 P3	2018 08 13.055545	00 16 14.67	−17 29 25.3	20.2	G	K	L01
P/2018 P3	2018 08 13.097106	00 16 15.51	−17 29 34.6	20.1	G	K	L01
P/2018 P3	2018 08 14.36537	00 16 43.91	−17 34 02.9	20.4	R	H	691
P/2018 P3	2018 08 14.38024	00 16 44.16	−17 34 06.3	20.0	R	H	691
P/2018 P3	2018 08 14.39575	00 16 44.41	−17 34 10.0	20.1	R	H	691
P/2018 P3	2018 08 17.04608	00 17 32.49	−17 43 55.1	19.2	G	K	104
P/2018 P3	2018 08 17.06068	00 17 32.72	−17 43 58.7	19.2	G	K	104
P/2018 P3	2018 08 19.61237	00 18 05.45	−17 53 35.7	19.1	T	K	Q11
P/2018 P3	2018 08 19.61558	00 18 05.48	−17 53 36.3			K	Q11
P/2018 P3	2018 08 19.62450	00 18 05.53	−17 53 38.4			K	Q11
P/2018 P3	2018 08 21.08438	00 18 17.70	−17 59 13.2	18.8	R	K	215
P/2018 P3	2018 08 21.08695	00 18 17.69	−17 59 14.3	19.1	R	K	215
P/2018 P3	2018 08 21.08951	00 18 17.71	−17 59 15.4	19.0	R	K	215
P/2018 P3	2018 09 06.45551	00 15 45.15	−18 54 26.0	18.2	o		T08
P/2018 P3	2018 09 06.45735	00 15 45.05	−18 54 25.8	17.9	o		T08
P/2018 P3	2018 09 06.47263	00 15 44.67	−18 54 28.4	17.9	o		T08
P/2018 P3	2018 09 06.48208	00 15 44.38	−18 54 30.1	18.1	o		T08
P/2018 P3	2018 09 08.31413	00 14 56.93	−18 58 37.0	17.9	G		I52
P/2018 P3	2018 09 08.32846	00 14 56.47	−18 58 38.8	18.1	G		I52
P/2018 P3	2018 09 08.34156	00 14 56.06	−18 58 40.2	18.1	G		I52
P/2018 P3	2018 09 08.36005	00 14 55.46	−18 58 42.6	18.1	G		I52
P/2018 P3	2018 09 08.44477	00 14 53.30	−18 58 50.8	17.8	o		T05
P/2018 P3	2018 09 08.44934	00 14 53.16	−18 58 51.7	17.7	o		T05
P/2018 P3	2018 09 08.46662	00 14 52.61	−18 58 53.4	17.8	o		T05
P/2018 P3	2018 09 08.47596	00 14 52.30	−18 58 54.8	18.1	o		T05
P/2018 P3	2018 09 10.31717	00 13 59.16	−19 02 16.0	17.8	G		I52
P/2018 P3	2018 09 10.32255	00 13 58.98	−19 02 16.4	17.8	G		I52
P/2018 P3	2018 09 10.32764	00 13 58.79	−19 02 16.9	17.9	G		I52
P/2018 P3	2018 09 10.34424	00 13 58.23	−19 02 18.5	17.6	G		I52
P/2018 P3	2018 09 10.44678	00 13 55.18	−19 02 26.3	17.6	o		T08
P/2018 P3	2018 09 10.44954	00 13 55.13	−19 02 27.1	17.9	o		T08

P/2018 P3	2018 09 10.45000	00 13 55.07	−19 02 26.9	17.7	o		T08
P/2018 P3	2018 09 10.45899	00 13 54.76	−19 02 27.0	17.6	o		T08
P/2018 P3	2018 09 11.95421	00 13 08.08	−19 04 34.2	18.1	N		K77
P/2018 P3	2018 09 11.97348	00 13 07.39	−19 04 36.0	17.9	N		K77
P/2018 P3	2018 09 11.99277	00 13 06.78	−19 04 37.6	17.9	N		K77
P/2018 P3	2018 09 12.95185	00 12 35.29	−19 05 39.1	18.0	V	K	A71
P/2018 P3	2018 09 12.96192	00 12 34.97	−19 05 39.0	17.7	V	K	A71
P/2018 P3	2018 09 12.97322	00 12 34.54	−19 05 38.9	18.1	V	K	A71
P/2018 P3	2018 09 13.97347	00 12 00.77	−19 06 26.0	18.0	N		B74
P/2018 P3	2018 09 13.98493	00 12 00.34	−19 06 26.6	18.1	N		B74
P/2018 P3	2018 09 13.99804	00 11 59.87	−19 06 27.0	18.0	N		B74
P/2018 P3	2018 09 14.42941	00 11 44.93	−19 06 39.2	17.6	o		T08
P/2018 P3	2018 09 14.43724	00 11 44.61	−19 06 39.0	17.5	o		T08
P/2018 P3	2018 09 14.44416	00 11 44.32	−19 06 39.5	17.3	o		T08
P/2018 P3	2018 09 14.45430	00 11 43.96	−19 06 40.1	17.6	o		T08
P/2018 P3	2018 09 16.31933	00 10 37.46	−19 07 09.4	17.3	G		G96
P/2018 P3	2018 09 16.32452	00 10 37.26	−19 07 09.5	17.6	G		G96
P/2018 P3	2018 09 16.32972	00 10 37.04	−19 07 09.5	17.5	G		G96
P/2018 P3	2018 09 16.33493	00 10 36.84	−19 07 09.5	17.5	G		G96
P/2018 P3	2018 09 16.49365	00 10 30.89	−19 07 07.1	17.4	o		T05
P/2018 P3	2018 09 16.50388	00 10 30.45	−19 07 07.0	17.4	o		T05
P/2018 P3	2018 09 16.51359	00 10 30.05	−19 07 06.7	17.5	o		T05
P/2018 P3	2018 09 16.52389	00 10 29.63	−19 07 07.0	17.4	o		T05

P/2018 P4 (PANSTARRS)

P/2018 P4	2018 07 10.56729	23 57 12.145	−06 06 59.99	21.6	w		F51
P/2018 P4	2018 07 10.58904	23 57 12.310	−06 06 54.52	21.5	w		F51
P/2018 P4	2018 07 10.59984	23 57 12.403	−06 06 51.73	21.5	w		F51
P/2018 P4	2018 08 08.50138	23 54 34.812	−04 30 01.67	20.6	w		F51
P/2018 P4	2018 08 08.51317	23 54 34.553	−04 29 59.88	20.6	w		F51
P/2018 P4	2018 08 08.52499	23 54 34.305	−04 29 58.12	20.6	w		F51
P/2018 P4	2018 08 08.53682	23 54 34.046	−04 29 56.41	20.6	w		F51
P/2018 P4	2018 08 10.007234	23 54 03.37	−04 26 23.8	20.5	G	K	L01
P/2018 P4	2018 08 10.024688	23 54 02.98	−04 26 21.3	20.3	G	K	L01
P/2018 P4	2018 08 10.037792	23 54 02.69	−04 26 19.2	20.4	G	K	L01
P/2018 P4	2018 08 10.545856	23 53 51.571	−04 25 05.52	20.6	G		29 568
P/2018 P4	2018 08 10.546801	23 53 51.543	−04 25 05.38	20.4	G		29 568
P/2018 P4	2018 08 10.547746	23 53 51.526	−04 25 05.25	20.5	G		29 568
P/2018 P4	2018 08 12.63856	23 53 03.28	−04 20 13.3				1 Q62
P/2018 P4	2018 08 12.64141	23 53 03.20	−04 20 13.2				1 Q62
P/2018 P4	2018 08 12.64426	23 53 03.12	−04 20 12.9	20.3			1 Q62
P/2018 P4	2018 08 14.36006	23 52 20.30	−04 16 29.7	19.3	R		H 691
P/2018 P4	2018 08 14.37492	23 52 19.96	−04 16 28.1	19.6	R		H 691
P/2018 P4	2018 08 14.39043	23 52 19.43	−04 16 27.1	19.0	R		H 691
P/2018 P4	2018 08 17.04078	23 51 08.11	−04 10 53.8	19.4	R	K	K88
P/2018 P4	2018 08 17.04783	23 51 07.89	−04 10 52.9	19.8	R	K	K88
P/2018 P4	2018 08 17.05488	23 51 07.69	−04 10 52.0	19.6	R	K	K88
P/2018 P4	2018 08 17.07927	23 51 07.00	−04 10 50.1	19.9	G		K 104
P/2018 P4	2018 08 17.09023	23 51 06.68	−04 10 48.8	18.8	G		K 104
P/2018 P4	2018 08 17.44815	23 50 56.697	−04 10 03.73	20.3	w		F51
P/2018 P4	2018 08 17.45937	23 50 56.360	−04 10 02.38	20.4	w		F51
P/2018 P4	2018 08 17.47055	23 50 56.040	−04 10 01.08	20.2	w		F51
P/2018 P4	2018 08 17.50773	23 50 54.929	−04 09 56.55	20.2	w		F51
P/2018 P4	2018 08 17.99720	23 50 40.87	−04 08 58.8	19.4	R	K	K88
P/2018 P4	2018 08 18.00567	23 50 40.62	−04 08 58.0	19.7	R	K	K88
P/2018 P4	2018 08 18.01413	23 50 40.37	−04 08 56.8	19.6	R	K	K88
P/2018 P4	2018 08 18.05245	23 50 39.25	−04 08 53.0	19.5	R		K 106
P/2018 P4	2018 08 18.06380	23 50 38.88	−04 08 51.9	19.2	R		K 106
P/2018 P4	2018 08 19.07722	23 50 09.06	−04 06 52.4	19.6	N	K	K87
P/2018 P4	2018 08 19.08098	23 50 08.94	−04 06 51.6	19.3	N	K	K87
P/2018 P4	2018 08 19.08511	23 50 08.82	−04 06 51.0	19.9	N	K	K87
P/2018 P4	2018 08 20.70234	23 49 19.49	−04 03 43.5				1 Q62
P/2018 P4	2018 08 20.70562	23 49 19.37	−04 03 43.0	19.8	G		1 Q62
P/2018 P4	2018 08 21.07276	23 49 07.94	−04 03 06.2	19.5	R		K 215
P/2018 P4	2018 08 21.07532	23 49 07.84	−04 03 05.7	19.7	R		K 215
P/2018 P4	2018 08 21.07725	23 49 07.82	−04 03 05.5	19.4	R		K 215
P/2018 P4	2018 08 22.13518	23 48 34.10	−04 01 07.9	19.1	N		9 G40
P/2018 P4	2018 08 22.14363	23 48 33.79	−04 01 07.8	19.0	N		9 G40
P/2018 P4	2018 09 04.93024	23 40 06.33	−03 39 19.6	20.3	N	K	K77
P/2018 P4	2018 09 04.93866	23 40 05.97	−03 39 18.8	20.5	N	K	K77
P/2018 P4	2018 09 07.25348	23 38 31.35	−03 36 06.4				703
P/2018 P4	2018 09 07.26932	23 38 30.64	−03 36 05.1	18.2	G		703
P/2018 P4	2018 09 07.34603	23 38 27.40	−03 35 58.1	19.4	G		G96
P/2018 P4	2018 09 07.35117	23 38 27.19	−03 35 57.6	19.5	G		G96
P/2018 P4	2018 09 07.35633	23 38 26.96	−03 35 57.2	19.4	G		G96
P/2018 P4	2018 09 07.36147	23 38 26.75	−03 35 56.6	19.2	G		G96
P/2018 P4	2018 09 08.71416	23 37 30.49	−03 34 06.0	19.1	R		D29
P/2018 P4	2018 09 08.72830	23 37 29.87	−03 34 04.9	19.2	R		D29
P/2018 P4	2018 09 08.74245	23 37 29.31	−03 34 03.5	19.2	R		D29
P/2018 P4	2018 09 10.24441	23 36 26.46	−03 32 01.9	18.8	G		703
P/2018 P4	2018 09 10.24967	23 36 26.23	−03 32 02.0	19.0	G		703
P/2018 P4	2018 09 10.25492	23 36 26.01	−03 32 01.4	19.2	G		703
P/2018 P4	2018 09 10.26017	23 36 25.77	−03 32 01.0	18.9	G		703
P/2018 P4	2018 09 11.95117	23 35 14.26	−03 29 45.7	19.3	V	K	A71
P/2018 P4	2018 09 11.96013	23 35 13.85	−03 29 44.8	19.1	V	K	A71
P/2018 P4	2018 09 13.21918	23 34 20.46	−03 28 03.0	18.8	G		G96
P/2018 P4	2018 09 13.22447	23 34 20.22	−03 28 02.6	18.9	G		G96
P/2018 P4	2018 09 13.22977	23 34 20.00	−03 28 02.3	18.9	G		G96
P/2018 P4	2018 09 13.23506	23 34 19.76	−03 28 01.8	18.9	G		G96

C/2018 P5 (PANSTARRS)

C/2018 P5	2018 06 16.586825	21 46 18.373	−04 52 08.18	21.7	G		F51
C/2018 P5	2018 06 16.595975	21 46 18.425	−04 52 07.10	21.9	G		F51
C/2018 P5	2018 06 23.550343	21 46 31.752	−04 41 17.90	21.8	G		F51
C/2018 P5	2018 06 23.563003	21 46 31.746	−04 41 16.96	21.5	G		F51
C/2018 P5	2018 06 23.575636	21 46 31.724	−04 41 15.93	21.8	G		F51
C/2018 P5	2018 06 23.588292	21 46 31.690	−04 41 15.06	21.9	G		F51
C/2018 P5	2018 07 13.465495	21 44 07.549	−04 30 17.04	21.7	G		F51
C/2018 P5	2018 07 13.477883	21 44 07.375	−04 30 17.36	21.5	G		F51
C/2018 P5	2018 07 13.490227	21 44 07.183	−04 30 17.62	21.2	G		F51
C/2018 P5	2018 07 13.502660	21 44 06.995	−04 30 17.73	21.2	G		F51
C/2018 P5	2018 08 11.45034	21 34 26.754	−05 06 40.89	20.9	w		F51
C/2018 P5	2018 08 11.46145	21 34 26.478	−05 06 42.20	21.2	w		F51
C/2018 P5	2018 08 11.47253	21 34 26.204	−05 06 43.72	21.1	w		F51
C/2018 P5	2018 08 11.48359	21 34 25.931	−05 06 45.27	21.2	w		F51
C/2018 P5	2018 08 12.387463	21 34 04.181	−05 08 43.32	21.6	G		29 568

C/2018 P5	2018 08 12.388644	21 34 04.149	−05 08 43.48	21.2	G	29	568
C/2018 P5	2018 08 12.389822	21 34 04.121	−05 08 43.64	21.0	G	29	568
C/2018 P5	2018 08 15.417627	21 32 50.61	−05 15 36.1	20.0	R	9	F65
C/2018 P5	2018 08 15.420586	21 32 50.49	−05 15 37.0	20.3	R	9	F65
C/2018 P5	2018 08 15.423544	21 32 50.41	−05 15 37.5	20.2	R	9	F65
C/2018 P5	2018 08 15.426502	21 32 50.36	−05 15 37.4	20.0	R	9	F65
C/2018 P5	2018 08 16.14434	21 32 33.00	−05 17 16.7	20.6	G	32	807
C/2018 P5	2018 08 16.14847	21 32 32.90	−05 17 17.3	20.7	G	32	807
C/2018 P5	2018 08 16.15318	21 32 32.77	−05 17 18.0	20.8	G	32	807
C/2018 P5	2018 08 16.56933	21 32 22.66	−05 18 16.7			1	Q62
C/2018 P5	2018 08 16.57286	21 32 22.55	−05 18 17.2			1	Q62
C/2018 P5	2018 08 16.57638	21 32 22.46	−05 18 17.5	20.9		1	Q62
C/2018 P5	2018 08 16.929137	21 32 13.91	−05 19 11.0	20.8	R	K	L01
C/2018 P5	2018 08 16.951031	21 32 13.36	−05 19 14.9	20.3	R	I	L01
C/2018 P5	2018 08 16.97701	21 32 12.77	−05 19 18.0	19.8	G	K	104
C/2018 P5	2018 08 17.00975	21 32 11.99	−05 19 22.2	19.5	G	K	104
C/2018 P5	2018 08 17.01935	21 32 11.71	−05 19 25.0	20.9	G	K	104
C/2018 P5	2018 08 17.94248	21 31 49.35	−05 21 38.4	19.9	R	K	K88
C/2018 P5	2018 08 17.95517	21 31 49.03	−05 21 40.0	20.2	R	K	K88
C/2018 P5	2018 08 18.40917	21 31 38.086	−05 22 45.94	20.9	w		F51
C/2018 P5	2018 08 18.42180	21 31 37.762	−05 22 47.98	21.2	w		F51
C/2018 P5	2018 08 18.43441	21 31 37.456	−05 22 49.67	20.9	w		F51
C/2018 P5	2018 08 18.44698	21 31 37.140	−05 22 51.46	21.4	w		F51
C/2018 P5	2018 09 05.85110	21 24 46.19	−06 11 56.2	20.5	V	K	A71
C/2018 P5	2018 09 05.86754	21 24 45.87	−06 11 59.6	20.5	V	K	A71
C/2018 P5	2018 09 05.87262	21 24 45.77	−06 12 00.6	20.1	R	K	215
C/2018 P5	2018 09 05.87518	21 24 45.72	−06 12 01.0	20.1	R	K	215
C/2018 P5	2018 09 05.87775	21 24 45.67	−06 12 01.6	19.9	R	K	215
C/2018 P5	2018 09 07.18269	21 24 20.93	−06 15 35.9	20.5	G		G96
C/2018 P5	2018 09 07.18832	21 24 20.80	−06 15 37.4	20.7	G		G96
C/2018 P5	2018 09 07.19396	21 24 20.68	−06 15 37.9	20.9	G		G96
C/2018 P5	2018 09 07.19957	21 24 20.56	−06 15 39.4	21.0	G		G96
C/2018 P5	2018 09 08.84122	21 23 50.55	−06 20 09.3	20.7	N	K	K77
C/2018 P5	2018 09 08.84594	21 23 50.55	−06 20 10.1	20.5	N	K	K77

C/2018 R3 (Lemmon)

C/2018 R3	2018 08 08.445761	21 59 13.117	−10 18 11.81	19.61	G		F51
C/2018 R3	2018 08 08.457036	21 59 12.305	−10 18 11.02				F51
C/2018 R3	2018 08 08.468283	21 59 11.526	−10 18 09.62	19.84	G		F51
C/2018 R3	2018 08 08.479551	21 59 10.736	−10 18 08.55	19.75	G		F51
C/2018 R3	2018 08 13.458839	21 53 17.631	−10 09 54.46	19.68	G		F51
C/2018 R3	2018 09 07.16249	21 21 42.85	−09 24 10.1	19.2	G		G96
C/2018 R3	2018 09 07.16811	21 21 42.44	−09 24 08.7	19.4	G		G96
C/2018 R3	2018 09 07.17374	21 21 42.02	−09 24 08.4	19.5	G		G96
C/2018 R3	2018 09 07.17936	21 21 41.59	−09 24 07.7	19.2	G		G96
C/2018 R3	2018 09 07.32125	21 21 30.72	−09 23 49.0	19.1	G		G96
C/2018 R3	2018 09 07.32610	21 21 30.24	−09 23 48.3	19.6	G		G96
C/2018 R3	2018 09 07.33095	21 21 29.86	−09 23 48.4	20.4	G		G96
C/2018 R3	2018 09 07.47918	21 21 18.69	−09 23 24.5	20.6	G	K	474
C/2018 R3	2018 09 07.48129	21 21 18.56	−09 23 24.4	20.1	G	K	474
C/2018 R3	2018 09 07.48340	21 21 18.38	−09 23 24.0	20.2	G	K	474
C/2018 R3	2018 09 07.48551	21 21 18.23	−09 23 23.7	20.2	G	K	474
C/2018 R3	2018 09 08.21223	21 20 23.27	−09 21 51.7	19.9	G		I52
C/2018 R3	2018 09 08.21732	21 20 22.92	−09 21 51.3	19.8	G		I52
C/2018 R3	2018 09 08.22240	21 20 22.47	−09 21 49.6	19.8	G		I52
C/2018 R3	2018 09 08.22748	21 20 22.07	−09 21 49.4	19.4	G		I52
C/2018 R3	2018 09 08.39392	21 20 09.56	−09 21 23.6	20.2	G		474
C/2018 R3	2018 09 08.39790	21 20 09.27	−09 21 23.1	20.3	G		474
C/2018 R3	2018 09 08.40188	21 20 08.93	−09 21 22.4	20.1	G		474
C/2018 R3	2018 09 08.44898	21 20 05.42	−09 21 16.9			1	Q62
C/2018 R3	2018 09 08.45228	21 20 05.16	−09 21 16.2			1	Q62
C/2018 R3	2018 09 08.45558	21 20 04.90	−09 21 15.9	19.3		1	Q62
C/2018 R3	2018 09 08.794691	21 19 39.39	−09 20 33.6	20.0	G	K	L01
C/2018 R3	2018 09 08.810815	21 19 38.16	−09 20 32.1	19.8	G	K	L01
C/2018 R3	2018 09 09.22361	21 19 07.11	−09 19 36.0	19.6	G		I52
C/2018 R3	2018 09 09.22734	21 19 06.83	−09 19 35.5	19.7	G		I52
C/2018 R3	2018 09 09.23324	21 19 06.36	−09 19 34.3	19.3	G		I52
C/2018 R3	2018 09 09.23776	21 19 06.01	−09 19 34.8	19.8	G		I52
C/2018 R3	2018 09 10.21352	21 17 53.17	−09 17 21.9	19.6	G		I52
C/2018 R3	2018 09 10.21680	21 17 52.88	−09 17 20.8	20.7	G		I52
C/2018 R3	2018 09 10.22305	21 17 52.40	−09 17 19.5	19.1	G		I52
C/2018 R3	2018 09 10.83940	21 17 06.75	−09 15 55.8	19.6	R	K	L27
C/2018 R3	2018 09 10.86280	21 17 04.99	−09 15 52.3	19.5	R	K	L27
C/2018 R3	2018 09 10.88619	21 17 03.24	−09 15 48.8	19.5	R	K	L27
C/2018 R3	2018 09 10.90548	21 17 01.83	−09 15 44.8	19.8	V	9	G40
C/2018 R3	2018 09 10.92940	21 17 00.03	−09 15 41.5	19.9	V	9	G40
C/2018 R3	2018 09 11.22270	21 16 38.33	−09 15 02.0	19.4	G		I52
C/2018 R3	2018 09 11.22595	21 16 38.09	−09 15 01.9	20.1	G		I52
C/2018 R3	2018 09 11.22897	21 16 37.82	−09 15 00.6	19.6	G		I52
C/2018 R3	2018 09 11.23216	21 16 37.59	−09 15 00.3	20.2	G		I52
C/2018 R3	2018 09 11.81726	21 15 54.60	−09 13 38.2	20.2	G	K	595
C/2018 R3	2018 09 11.85132	21 15 52.12	−09 13 33.8	19.3	G	K	595
C/2018 R3	2018 09 11.88154	21 15 49.75	−09 13 29.7	18.9		K	104
C/2018 R3	2018 09 11.89112	21 15 49.15	−09 13 27.8	19.1		K	104
C/2018 R3	2018 09 12.79419	21 14 43.16	−09 11 19.6	20.0	V	K	A71
C/2018 R3	2018 09 12.80495	21 14 42.45	−09 11 17.9	20.1	V	K	A71
C/2018 R3	2018 09 12.81659	21 14 41.55	−09 11 16.7	20.2	V	K	A71
C/2018 R3	2018 09 13.12286	21 14 19.37	−09 10 31.6	20.3	R		926
C/2018 R3	2018 09 13.12728	21 14 19.08	−09 10 30.4	20.3	R		926
C/2018 R3	2018 09 13.13170	21 14 18.70	−09 10 29.6	20.4	R		926
C/2018 R3	2018 09 13.16870	21 14 16.07	−09 10 24.5	20.2	R		926
C/2018 R3	2018 09 13.17311	21 14 15.72	−09 10 24.5	20.7	R		926
C/2018 R3	2018 09 13.17752	21 14 15.31	−09 10 23.5	20.0	R		926
C/2018 R3	2018 09 13.20491	21 14 13.33	−09 10 19.8	19.4	G		I52
C/2018 R3	2018 09 13.21463	21 14 12.61	−09 10 18.5	19.5	G		I52
C/2018 R3	2018 09 13.22566	21 14 11.79	−09 10 16.8	19.6	G		I52
C/2018 R3	2018 09 13.24309	21 14 10.56	−09 10 14.8	19.5	G		I52
C/2018 R3	2018 09 13.83420	21 13 28.08	−09 08 49.2	19.2	R	K	K63
C/2018 R3	2018 09 13.84233	21 13 27.42	−09 08 47.3	19.1	R	K	K63
C/2018 R3	2018 09 13.84737	21 13 27.03	−09 08 45.4	19.0	R	K	K63
C/2018 R3	2018 09 15.13433	21 11 54.99	−09 05 37.3			K	711
C/2018 R3	2018 09 15.13771	21 11 54.72	−09 05 36.8			K	711
C/2018 R3	2018 09 15.14107	21 11 54.46	−09 05 36.3			K	711
C/2018 R3	2018 09 15.18641	21 11 51.28	−09 05 28.7	20.2	G		I52
C/2018 R3	2018 09 15.18921	21 11 51.12	−09 05 28.2	20.2	G		I52
C/2018 R3	2018 09 15.19157	21 11 50.90	−09 05 28.2			H	691

C/2018 R3	2018 09 15.19309	21 11 50.82	−09 05 27.6	19.5	G	I52
C/2018 R3	2018 09 15.20338	21 11 50.18	−09 05 26.7			H 691
C/2018 R3	2018 09 15.21474	21 11 49.20	−09 05 24.5			H 691
C/2018 R3	2018 09 15.84052	21 11 05.00	−09 03 50.8	19.6	R	K K88
C/2018 R3	2018 09 15.84536	21 11 04.62	−09 03 51.0	19.5	R	K K88
C/2018 R3	2018 09 16.24880	21 10 36.32	−09 02 48.8	19.2	G	I52
C/2018 R3	2018 09 16.25692	21 10 35.71	−09 02 47.5	19.4	G	I52
C/2018 R3	2018 09 16.26104	21 10 35.42	−09 02 46.8	19.5	G	I52
C/2018 R3	2018 09 17.82566	21 08 46.99	−08 58 46.6	19.2		K 215
C/2018 R3	2018 09 17.82951	21 08 46.74	−08 58 45.8	19.5		K 215
C/2018 R3	2018 09 17.83335	21 08 46.50	−08 58 44.7	19.3		K 215

C/2018 R4 (Fuls)

C/2018 R4	2018 08 14.79719	00 32 39.72	+18 30 06.7	19.3	R	D29
C/2018 R4	2018 08 14.81133	00 32 39.40	+18 30 10.3	19.7	R	D29
C/2018 R4	2018 08 14.82547	00 32 39.11	+18 30 13.8	19.2	R	D29
C/2018 R4	2018 09 09.26958	00 17 37.63	+18 55 21.0	19.7	G	G96
C/2018 R4	2018 09 09.27477	00 17 37.40	+18 55 20.7	19.6	G	G96
C/2018 R4	2018 09 09.27995	00 17 37.17	+18 55 20.1	20.0	G	G96
C/2018 R4	2018 09 09.28512	00 17 36.91	+18 55 19.3	19.7	G	G96
C/2018 R4	2018 09 09.31121	00 17 35.79	+18 55 18.4	19.1	G	703
C/2018 R4	2018 09 09.31652	00 17 35.35	+18 55 16.8	19.1	G	703
C/2018 R4	2018 09 09.32181	00 17 34.95	+18 55 15.5	18.6	G	703
C/2018 R4	2018 09 09.32712	00 17 34.80	+18 55 13.6	19.1	G	703
C/2018 R4	2018 09 09.42114	00 17 30.48	+18 55 05.9	20.1	G	I52
C/2018 R4	2018 09 09.42921	00 17 30.06	+18 55 04.2	19.4	G	I52
C/2018 R4	2018 09 09.43330	00 17 29.89	+18 55 03.9	20.0	G	I52
C/2018 R4	2018 09 09.49761	00 17 26.88	+18 54 55.8			5 U69
C/2018 R4	2018 09 09.50028	00 17 26.73	+18 54 55.5	19.6	G	5 U69
C/2018 R4	2018 09 09.912788	00 17 08.16	+18 54 10.6	20.3	G	K L01
C/2018 R4	2018 09 09.92433	00 17 07.63	+18 54 09.1	19.9	G	K 595
C/2018 R4	2018 09 09.929635	00 17 07.37	+18 54 09.0	20.2	G	K L01
C/2018 R4	2018 09 09.93189	00 17 07.24	+18 54 07.5	19.3	G	K 595
C/2018 R4	2018 09 09.94480	00 17 06.81	+18 54 08.0			9 G40
C/2018 R4	2018 09 09.96638	00 17 05.77	+18 54 04.1	19.4	R	K C10
C/2018 R4	2018 09 09.97066	00 17 05.57	+18 54 04.7	20.0	V	9 G40
C/2018 R4	2018 09 09.97972	00 17 05.06	+18 54 02.3	19.5	R	K C10
C/2018 R4	2018 09 09.99307	00 17 04.37	+18 54 00.7	19.6	R	K C10
C/2018 R4	2018 09 10.00029	00 17 04.17	+18 54 02.2	20.2	V	11G40
C/2018 R4	2018 09 10.01422	00 17 03.52	+18 54 00.6	19.7	V	11G40
C/2018 R4	2018 09 10.02855	00 17 02.83	+18 53 58.9	19.6	V	11G40
C/2018 R4	2018 09 10.076428	00 17 00.548	+18 53 53.50	20.1	G	J04
C/2018 R4	2018 09 10.077528	00 17 00.521	+18 53 53.20	20.2	G	J04
C/2018 R4	2018 09 10.078629	00 17 00.468	+18 53 53.34	19.8	G	J04
C/2018 R4	2018 09 10.080882	00 17 00.322	+18 53 53.04	19.9	G	J04
C/2018 R4	2018 09 10.082126	00 17 00.279	+18 53 52.61	19.7	G	J04
C/2018 R4	2018 09 10.30723	00 16 49.97	+18 53 26.5	19.8	G	I52
C/2018 R4	2018 09 10.31136	00 16 49.80	+18 53 25.8	19.5	G	I52
C/2018 R4	2018 09 11.18581	00 16 09.52	+18 51 38.1	19.2	G	I52
C/2018 R4	2018 09 11.19545	00 16 09.10	+18 51 36.6	19.5	G	I52
C/2018 R4	2018 09 11.20130	00 16 08.73	+18 51 36.3	19.8	G	I52
C/2018 R4	2018 09 11.20569	00 16 08.58	+18 51 36.6	19.7	G	I52
C/2018 R4	2018 09 11.29231	00 16 04.45	+18 51 25.0			5 U69
C/2018 R4	2018 09 11.29519	00 16 04.30	+18 51 24.7			5 U69
C/2018 R4	2018 09 11.29807	00 16 04.18	+18 51 24.7	19.2	G	5 U69
C/2018 R4	2018 09 11.88505	00 15 36.98	+18 50 05.7	19.8	R	K K61
C/2018 R4	2018 09 11.88705	00 15 36.88	+18 50 05.0	19.7	R	K K61
C/2018 R4	2018 09 11.97274	00 15 32.69	+18 49 54.4	20.3	V	K A71
C/2018 R4	2018 09 11.98529	00 15 32.17	+18 49 50.9	20.7	V	K A71
C/2018 R4	2018 09 12.06269	00 15 28.47	+18 49 41.9	20.9	V	033
C/2018 R4	2018 09 12.06791	00 15 28.21	+18 49 41.1	21.0	V	033
C/2018 R4	2018 09 12.07293	00 15 27.97	+18 49 40.2	21.1	V	033
C/2018 R4	2018 09 12.07797	00 15 27.73	+18 49 39.8	21.1	V	033
C/2018 R4	2018 09 12.08308	00 15 27.47	+18 49 39.0	20.6	V	033
C/2018 R4	2018 09 12.08814	00 15 27.24	+18 49 38.2	20.9	V	033
C/2018 R4	2018 09 12.27036	00 15 18.91	+18 49 14.0	19.1	G	I52
C/2018 R4	2018 09 12.28272	00 15 18.40	+18 49 12.3	19.8	G	I52
C/2018 R4	2018 09 12.28936	00 15 18.06	+18 49 12.2	20.1	G	I52
C/2018 R4	2018 09 12.29477	00 15 17.76	+18 49 11.0	19.2	G	I52
C/2018 R4	2018 09 12.30114	00 15 17.35	+18 49 11.5	18.9	G	703
C/2018 R4	2018 09 12.30684	00 15 17.11	+18 49 09.0	19.1	G	703
C/2018 R4	2018 09 12.31255	00 15 16.88	+18 49 08.6	19.2	G	703
C/2018 R4	2018 09 12.31956	00 15 16.49	+18 49 08.0	19.1	G	703
C/2018 R4	2018 09 12.91449	00 14 48.94	+18 47 42.0	19.5		K 215
C/2018 R4	2018 09 12.91705	00 14 48.77	+18 47 40.4	20.1		K 215
C/2018 R4	2018 09 12.91962	00 14 48.67	+18 47 39.7	19.6		K 215
C/2018 R4	2018 09 14.05115	00 13 55.28	+18 44 47.6	19.7	R	K K88
C/2018 R4	2018 09 14.05923	00 13 54.92	+18 44 45.9	19.8	R	K K88
C/2018 R4	2018 09 14.06732	00 13 54.53	+18 44 44.6	19.7	R	K K88
C/2018 R4	2018 09 14.21053	00 13 48.06	+18 44 23.2	19.6	G	I52
C/2018 R4	2018 09 14.22020	00 13 47.56	+18 44 19.8	19.3	G	I52
C/2018 R4	2018 09 14.23267	00 13 46.82	+18 44 17.0			I52
C/2018 R4	2018 09 14.29504	00 13 43.86	+18 44 12.1	20.5	G	KW96
C/2018 R4	2018 09 14.31800	00 13 42.81	+18 44 09.0	20.2	G	KW96
C/2018 R4	2018 09 14.935741	00 13 13.86	+18 42 22.1	19.6	R	K K63
C/2018 R4	2018 09 14.939028	00 13 13.71	+18 42 21.4	19.6	R	K K63
C/2018 R4	2018 09 14.942697	00 13 13.52	+18 42 20.7	19.7	R	K K63
C/2018 R4	2018 09 15.39430	00 12 52.01	+18 41 05.1			K 711
C/2018 R4	2018 09 15.39768	00 12 51.83	+18 41 04.7			K 711
C/2018 R4	2018 09 15.40092	00 12 51.68	+18 41 04.2			I 711
C/2018 R4	2018 09 15.82562	00 12 31.94	+18 39 46.9	19.6	R	K C10
C/2018 R4	2018 09 15.83898	00 12 31.32	+18 39 45.9	19.8	R	K C10
C/2018 R4	2018 09 15.85235	00 12 30.67	+18 39 44.0	19.9	R	K C10
C/2018 R4	2018 09 15.92307	00 12 27.23	+18 39 30.9	19.9	R	K K88
C/2018 R4	2018 09 15.92953	00 12 26.93	+18 39 29.5	20.0	R	K K88
C/2018 R4	2018 09 15.93599	00 12 26.61	+18 39 28.8	19.8	R	K K88
C/2018 R4	2018 09 15.96323	00 12 25.34	+18 39 23.5	20.1	G	K 104
C/2018 R4	2018 09 15.97665	00 12 24.75	+18 39 20.6	19.9	G	K 104
C/2018 R4	2018 09 16.83708	00 11 44.17	+18 36 41.3	20.9	V	033
C/2018 R4	2018 09 16.83885	00 11 44.09	+18 36 41.4	21.2	V	033

C/2018 R5 (Lemmon)

C/2018 R5	2018 07 05.54722	00 04 39.537	+40 05 05.18	20.5	G	F51
C/2018 R5	2018 07 05.55854	00 04 39.431	+40 05 04.20	21.0	G	F51
C/2018 R5	2018 07 05.56978	00 04 39.332	+40 05 03.68	20.9	G	F51
C/2018 R5	2018 07 05.58102	00 04 39.206	+40 05 03.11	21.7	G	F51

C/2018 R5	2018 08 01.59150	23 52 26.657	+38 32 22.27	20.7	G		F51
C/2018 R5	2018 08 01.60126	23 52 26.183	+38 32 18.07	20.5	G		F51
C/2018 R5	2018 08 15.48575	23 39 54.861	+36 36 27.97	19.4	G		F51
C/2018 R5	2018 08 15.49855	23 39 54.028	+36 36 19.83	20.9	G		F51
C/2018 R5	2018 08 15.51138	23 39 53.234	+36 36 11.53	19.5	G		F51
C/2018 R5	2018 09 08.23378	23 11 51.30	+30 41 27.3	19.0	G		G96
C/2018 R5	2018 09 08.23896	23 11 50.87	+30 41 22.8	19.1	G		G96
C/2018 R5	2018 09 08.24414	23 11 50.51	+30 41 16.2				G96
C/2018 R5	2018 09 08.24933	23 11 50.12	+30 41 10.1	19.3	G		G96
C/2018 R5	2018 09 08.37829	23 11 40.28	+30 38 40.2	19.4	G		I52
C/2018 R5	2018 09 08.38426	23 11 39.79	+30 38 33.2				I52
C/2018 R5	2018 09 08.39016	23 11 39.31	+30 38 26.2				I52
C/2018 R5	2018 09 08.81213	23 11 07.87	+30 30 11.7	19.5	V	K	151
C/2018 R5	2018 09 08.81523	23 11 07.64	+30 30 08.0	19.5	V	K	151
C/2018 R5	2018 09 08.81832	23 11 07.41	+30 30 04.4	19.5	V	K	151
C/2018 R5	2018 09 08.83904	23 11 05.84	+30 29 38.8	19.3	R	K	A17
C/2018 R5	2018 09 08.84688	23 11 05.14	+30 29 30.5	19.4	G	K	C47
C/2018 R5	2018 09 08.85082	23 11 04.88	+30 29 25.6	19.7	R	K	A17
C/2018 R5	2018 09 08.85404	23 11 04.59	+30 29 22.6	20.2	G	K	C47
C/2018 R5	2018 09 08.86283	23 11 04.06	+30 29 10.8	19.6	R	K	A17
C/2018 R5	2018 09 08.86400	23 11 03.94	+30 29 10.1	20.3	G	K	C47
C/2018 R5	2018 09 08.91023	23 11 00.41	+30 28 17.1	19.4	G	K	595
C/2018 R5	2018 09 08.93256	23 10 58.65	+30 27 50.6	19.8	G	K	595
C/2018 R5	2018 09 08.938827	23 10 58.12	+30 27 42.7	19.7	G	K	L01
C/2018 R5	2018 09 08.941146	23 10 58.00	+30 27 39.5	19.6	G	K	L01
C/2018 R5	2018 09 09.04865	23 10 49.86	+30 25 33.4	19.4	R	K	K63
C/2018 R5	2018 09 09.05079	23 10 49.71	+30 25 31.0	19.1	R	K	K63
C/2018 R5	2018 09 09.05486	23 10 49.39	+30 25 25.7	19.4	R	K	K63
C/2018 R5	2018 09 09.20725	23 10 38.16	+30 22 26.5				I52
C/2018 R5	2018 09 09.21091	23 10 37.80	+30 22 22.3	19.4	G		I52
C/2018 R5	2018 09 09.21457	23 10 37.49	+30 22 17.9	19.4	G		I52
C/2018 R5	2018 09 09.21824	23 10 37.23	+30 22 13.4	19.4	G		I52
C/2018 R5	2018 09 09.46989	23 10 18.03	+30 17 14.3				5 U69
C/2018 R5	2018 09 09.47274	23 10 17.80	+30 17 10.7				5 U69
C/2018 R5	2018 09 09.47560	23 10 17.63	+30 17 07.4	19.6			5 U69
C/2018 R5	2018 09 10.22376	23 09 21.67	+30 02 13.5	19.7	G		I52
C/2018 R5	2018 09 10.22573	23 09 21.50	+30 02 10.8	19.5	G		I52
C/2018 R5	2018 09 10.23028	23 09 21.18	+30 02 05.5	19.2	G		I52
C/2018 R5	2018 09 10.23266	23 09 21.01	+30 02 02.8	18.6	G		I52
C/2018 R5	2018 09 10.27428	23 09 17.77	+30 01 11.8	18.8	R	K	H36
C/2018 R5	2018 09 10.28894	23 09 16.64	+30 00 54.1	19.1	R	K	H36
C/2018 R5	2018 09 10.29188	23 09 16.43	+30 00 50.9	19.1	R	K	H36
C/2018 R5	2018 09 11.18770	23 08 09.41	+29 42 42.6	19.1	G		I52
C/2018 R5	2018 09 11.18957	23 08 09.21	+29 42 39.6	19.6	G		I52
C/2018 R5	2018 09 11.19670	23 08 08.73	+29 42 31.0	19.4	G		I52
C/2018 R5	2018 09 11.20255	23 08 08.26	+29 42 23.8	19.8	G		I52
C/2018 R5	2018 09 11.83210	23 07 21.18	+29 29 28.5	19.3	R	K	C10
C/2018 R5	2018 09 11.84414	23 07 20.29	+29 29 13.4	19.2	R	K	C10
C/2018 R5	2018 09 11.85618	23 07 19.40	+29 28 58.3	19.1	R	K	C10
C/2018 R5	2018 09 11.86822	23 07 18.40	+29 28 44.1	18.5	R	K	K61
C/2018 R5	2018 09 11.86989	23 07 18.28	+29 28 42.0	18.9	R	K	K61
C/2018 R5	2018 09 11.87391	23 07 18.01	+29 28 36.9	18.5	R	K	K38
C/2018 R5	2018 09 11.88159	23 07 17.47	+29 28 28.7	19.9	V	K	C77
C/2018 R5	2018 09 11.89579	23 07 16.31	+29 28 09.6	18.6	R	K	K38
C/2018 R5	2018 09 11.90245	23 07 15.83	+29 28 01.7	19.0		K	104
C/2018 R5	2018 09 11.90820	23 07 15.38	+29 27 54.8	19.1		K	104
C/2018 R5	2018 09 11.91395	23 07 14.96	+29 27 48.0	19.0		K	104
C/2018 R5	2018 09 11.91535	23 07 14.86	+29 27 44.8	19.7	V	K	A71
C/2018 R5	2018 09 11.92057	23 07 14.45	+29 27 39.1	18.5	R	K	K38
C/2018 R5	2018 09 11.92614	23 07 14.05	+29 27 31.7	19.7	V	K	A71
C/2018 R5	2018 09 11.93495	23 07 13.40	+29 27 21.7	19.5	V	K	C77
C/2018 R5	2018 09 11.93765	23 07 13.20	+29 27 17.4	19.8	V	K	A71
C/2018 R5	2018 09 12.08894	23 07 01.79	+29 24 11.7	19.3	V	9	G40
C/2018 R5	2018 09 12.10253	23 07 00.76	+29 23 54.3	19.1	V	9	G40
C/2018 R5	2018 09 12.81792	23 06 07.53	+29 08 59.9				246
C/2018 R5	2018 09 12.82022	23 06 07.35	+29 08 57.3				246
C/2018 R5	2018 09 12.82278	23 06 07.19	+29 08 53.1	18.3	R		246
C/2018 R5	2018 09 12.83761	23 06 06.11	+29 08 35.0			K	113
C/2018 R5	2018 09 12.84214	23 06 05.69	+29 08 30.2	18.6	R	K	113
C/2018 R5	2018 09 12.85120	23 06 05.07	+29 08 17.7	18.5	R	K	113
C/2018 R5	2018 09 12.85573	23 06 04.70	+29 08 11.9	18.2	R	K	113
C/2018 R5	2018 09 12.89942	23 06 01.40	+29 07 17.5	19.0		K	215
C/2018 R5	2018 09 12.90204	23 06 01.24	+29 07 14.3	19.2		K	215
C/2018 R5	2018 09 12.90466	23 06 01.07	+29 07 11.1	19.2		K	215
C/2018 R5	2018 09 13.16535	23 05 41.70	+29 01 42.6	18.9	G		I52
C/2018 R5	2018 09 13.16709	23 05 41.59	+29 01 40.9	19.0	G		I52
C/2018 R5	2018 09 13.16849	23 05 41.51	+29 01 39.1	18.7	G		I52
C/2018 R5	2018 09 13.17024	23 05 41.37	+29 01 36.8	19.0	G		I52
C/2018 R5	2018 09 13.86623	23 04 49.62	+28 46 52.5	19.3	R	K	K63
C/2018 R5	2018 09 13.867836	23 04 49.51	+28 46 50.7	19.3	V	K	C95
C/2018 R5	2018 09 13.86959	23 04 49.34	+28 46 48.4	19.2	R	K	K63
C/2018 R5	2018 09 13.87323	23 04 49.08	+28 46 44.3	19.2	R	K	K63
C/2018 R5	2018 09 13.878417	23 04 48.68	+28 46 36.7	19.4	V	K	C95
C/2018 R5	2018 09 13.888999	23 04 47.91	+28 46 24.2	18.8	V	K	C95
C/2018 R5	2018 09 13.899580	23 04 47.11	+28 46 09.5	19.3	V	K	C95
C/2018 R5	2018 09 14.02632	23 04 37.54	+28 43 27.6	19.6	R	K	K88
C/2018 R5	2018 09 14.03440	23 04 36.95	+28 43 17.3	19.1	R	K	K88
C/2018 R5	2018 09 14.04249	23 04 36.34	+28 43 07.1	19.1	R	K	K88
C/2018 R5	2018 09 14.96303	23 03 28.35	+28 23 21.2	19.0	R	K	K88
C/2018 R5	2018 09 14.97112	23 03 27.73	+28 23 10.8	18.7	R	K	K88
C/2018 R5	2018 09 15.10603	23 03 18.00	+28 20 16.2	18.9	R	K	850
C/2018 R5	2018 09 15.12016	23 03 16.89	+28 19 56.6	18.8	R	K	850
C/2018 R5	2018 09 15.13421	23 03 15.87	+28 19 39.0	19.6	R	K	850
C/2018 R5	2018 09 15.15265	23 03 14.50	+28 19 15.8			K	711
C/2018 R5	2018 09 15.15596	23 03 14.25	+28 19 11.7			K	711
C/2018 R5	2018 09 15.15923	23 03 14.01	+28 19 07.3			K	711
C/2018 R5	2018 09 15.88687	23 02 20.48	+28 03 15.7	18.6	R	K	K88
C/2018 R5	2018 09 15.89333	23 02 20.02	+28 03 07.2	19.0	R	K	K88
C/2018 R5	2018 09 15.89978	23 02 19.50	+28 02 58.5	18.8	R	K	K88
C/2018 R5	2018 09 16.17033	23 01 59.46	+27 57 03.2	19.5	V	11	G40
C/2018 R5	2018 09 16.18432	23 01 58.45	+27 56 44.2	19.5	V	11	G40
C/2018 R5	2018 09 16.19825	23 01 57.42	+27 56 25.7	19.3	V	11	G40
C/2018 R5	2018 09 16.20933	23 01 56.78	+27 56 11.7	19.1	R	K	850
C/2018 R5	2018 09 16.22317	23 01 55.73	+27 55 54.4	18.7	R	K	850
C/2018 R5	2018 09 16.82713	23 01 11.70	+27 42 31.1			K	118
C/2018 R5	2018 09 16.83894	23 01 10.90	+27 42 16.1			K	118

C/2018 R5	2018 09 16.85074	23 01 09.96	+27 42 00.9			K	118
C/2018 R5	2018 09 16.94159	23 01 03.29	+27 40 01.0	19.1	R	K	585
C/2018 R5	2018 09 16.94411	23 01 03.14	+27 39 56.8	19.2	R	K	585
C/2018 R5	2018 09 16.94621	23 01 02.99	+27 39 54.1	19.0	R	K	585
C/2018 R5	2018 09 16.94732	23 01 02.88	+27 39 53.0	19.1	R	K	585
C/2018 R5	2018 09 16.94872	23 01 02.77	+27 39 51.1	19.1	R	K	585
C/2018 R5	2018 09 16.94956	23 01 02.69	+27 39 50.1	19.1	R	K	585
C/2018 R5	2018 09 16.95767	23 01 02.15	+27 39 39.1	18.1	R	K	C23
C/2018 R5	2018 09 16.96128	23 01 01.93	+27 39 32.7	18.7	R	K	C23
C/2018 R5	2018 09 16.96922	23 01 01.35	+27 39 24.9	18.3	R	K	C23
C/2018 R5	2018 09 16.97210	23 01 01.07	+27 39 20.9	18.3	R	K	C23
C/2018 R5	2018 09 16.97571	23 01 00.64	+27 39 14.7	18.6	R	K	C23
C/2018 R5	2018 09 17.10782	23 00 51.11	+27 36 19.6	19.4	V	11	G40
C/2018 R5	2018 09 17.12190	23 00 50.08	+27 36 01.2			11	G40
C/2018 R5	2018 09 17.13562	23 00 49.04	+27 35 42.4	19.2	V	11	G40
C/2018 R5	2018 09 18.06480	22 59 41.65	+27 14 53.5	18.7	R	K	C23
C/2018 R5	2018 09 18.06824	22 59 41.49	+27 14 48.8	18.1	R	K	C23
C/2018 R5	2018 09 18.07257	22 59 41.24	+27 14 43.8	18.4	R	K	C23
C/2018 R5	2018 09 18.07690	22 59 40.76	+27 14 37.4	18.4	R	K	C23
C/2018 R5	2018 09 18.08123	22 59 40.56	+27 14 30.0	18.6	R	K	C23
C/2018 R5	2018 09 18.18009	22 59 33.54	+27 12 18.9	19.0	R	K	850
C/2018 R5	2018 09 18.19414	22 59 32.47	+27 12 00.6	19.0	R	K	850
C/2018 R5	2018 09 18.20817	22 59 31.46	+27 11 42.2	19.8	R	K	850
C/2018 R5	2018 09 18.20819	22 59 31.53	+27 11 41.1	19.1	G		I52
C/2018 R5	2018 09 18.21448	22 59 31.03	+27 11 32.5	19.3	G		I52
C/2018 R5	2018 09 18.22078	22 59 30.65	+27 11 23.8	19.6	G		I52
C/2018 R5	2018 09 18.22233	22 59 30.42	+27 11 21.2	18.6	R	K	850
C/2018 R5	2018 09 18.22708	22 59 30.17	+27 11 15.3	19.2	G		I52
C/2018 R5	2018 09 18.46166	22 59 13.10	+27 05 58.2	19.3	o		T05
C/2018 R5	2018 09 18.47039	22 59 12.41	+27 05 46.0	19.4	o		T05
C/2018 R5	2018 09 18.47276	22 59 12.24	+27 05 43.5	19.4	o		T05
C/2018 R5	2018 09 18.47664	22 59 11.96	+27 05 37.7	19.2	o		T05
C/2018 R5	2018 09 18.49031	22 59 11.02	+27 05 19.4	19.3	o		T05

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1I	2017 10 18.472979	01 59 57.460	+02 06 04.02	19.6	G	f	F51
1I	2017 10 18.499898	01 59 08.928	+02 07 20.53			H	F51
1I	2017 10 19.397150	01 34 55.364	+02 45 03.09	19.6	G	t	F51
1I	2017 10 19.408370	01 34 38.761	+02 45 28.19	19.6	G	G	F51
1I	2017 10 19.419685	01 34 21.996	+02 45 53.47	19.5	G	t	F51
1I	2017 10 19.431056	01 34 05.210	+02 46 18.48			I	F51
1I	2017 10 19.940934	01 22 22.290	+03 03 53.82	20.3	G	K	J04
1I	2017 10 19.943901	01 22 18.370	+03 03 59.58	20.6	G	K	J04
1I	2017 10 22.371415	00 40 57.815	+04 02 50.75	20.8	G	29	568
1I	2017 10 22.372590	00 40 56.875	+04 02 52.02	20.7	G	29	568
1I	2017 10 22.373983	00 40 55.762	+04 02 53.49	20.7	G	29	568
1I	2017 10 23.384311	00 28 51.402	+04 19 02.21	23.0	G	29	568
1I	2017 10 23.385548	00 28 50.593	+04 19 03.41	23.1	G	29	568
1I	2017 10 23.386852	00 28 49.730	+04 19 04.54	23.1	G	29	568
1I	2017 10 25.044458	00 13 18.796	+04 39 35.19	21.1	G	15	309
1I	2017 10 25.050182	00 13 15.981	+04 39 38.79	21.7	G	15	309
1I	2017 10 25.061553	00 13 10.389	+04 39 45.94	22.6	G	15	309
1I	2017 10 25.112088	00 12 45.650	+04 40 17.26	23.4	G	15	309
1I	2017 10 25.117597	00 12 42.966	+04 40 20.70	23.6	G	15	309
1I	2017 10 26.133749	00 05 15.166	+04 49 55.54	21.8	G	15	309
1I	2017 10 26.138575	00 05 13.175	+04 49 58.07	23.0	G	15	309
1I	2017 10 26.143286	00 05 11.230	+04 50 00.52	23.4	G	15	309
1I	2017 10 26.185052	00 04 54.100	+04 50 21.91	22.5	G	15	309
1I	2017 10 27.269327	23 58 14.606	+04 58 44.31	22.8	G	29	568
1I	2017 10 27.282873	23 58 09.917	+04 58 50.36	22.3	G	29	568
1I	2017 10 27.304553	23 58 02.427	+04 58 59.94	22.0	G	29	568
1I	2017 10 27.330214	23 57 53.596	+04 59 11.15	22.1	G	29	568
1I	2017 10 27.381822	23 57 35.926	+04 59 33.51	24.1	G	29	568
1I	2017 11 15.306018	23 18 51.738	+06 14 13.51	24.1	G	29	568
1I	2017 11 15.309275	23 18 51.633	+06 14 14.10	24.2	G	29	568
1I	2017 11 15.312534	23 18 51.529	+06 14 14.66	24.3	G	29	568
1I	2017 11 15.315806	23 18 51.418	+06 14 15.25	24.2	G	29	568
1I	2017 11 16.207482	23 18 27.240	+06 16 59.12	24.2	G	29	568
1I	2017 11 16.210740	23 18 27.141	+06 16 59.74	24.4	G	29	568
1I	2017 11 16.213997	23 18 27.045	+06 17 00.34	24.3	G	29	568
1I	2017 11 16.217253	23 18 26.956	+06 17 00.94	24.5	G	29	568
1I	2017 11 21.026940	23 17 05.962	+06 32 01.74	24.5	G		304
1I	2017 11 21.032458	23 17 05.893	+06 32 02.84	24.5	G		304
1I	2017 11 21.038153	23 17 05.834	+06 32 04.03	24.6	G		304
1I	2017 11 21.043922	23 17 05.765	+06 32 05.08	23.3	G		304
1I	2017 11 21.060925	23 17 05.573	+06 32 08.23	24.2	G		304
1I	2017 11 21.066145	23 17 05.522	+06 32 09.11	24.8	G		304
1I	2017 11 21.081650	23 17 05.348	+06 32 12.17	24.5	G		304
1I	2017 11 21.139496	23 17 05.401	+06 32 22.61				250
Geocentric position (km)	+ 1797.7	− 6042.7	− 2854.2				
1I	2017 11 21.145757	23 17 05.141	+06 32 24.55				250
Geocentric position (km)	+ 4946.6	− 3541.9	− 3298.4				
1I	2017 11 21.152019	23 17 04.822	+06 32 25.14				250
Geocentric position (km)	+ 6404.8	+ 169.5	− 2612.2				
1I	2017 11 21.158281	23 17 04.534	+06 32 24.58				250
Geocentric position (km)	+ 5671.7	+ 3822.4	− 1030.1				
1I	2017 11 21.164542	23 17 04.357	+06 32 23.48				250
Geocentric position (km)	+ 2994.9	+ 6164.9	+ 905.8				
1I	2017 11 21.205711	23 17 04.826	+06 32 35.17				250
Geocentric position (km)	+ 1795.0	− 6038.1	− 2865.8				
1I	2017 11 21.211973	23 17 04.568	+06 32 37.09				250
Geocentric position (km)	+ 4948.6	− 3540.6	− 3296.8				
1I	2017 11 21.218234	23 17 04.250	+06 32 37.66				250
Geocentric position (km)	+ 6410.7	+ 166.7	− 2598.0				
1I	2017 11 21.224496	23 17 03.964	+06 32 37.11				250
Geocentric position (km)	+ 5679.5	+ 3816.6	− 1008.1				
1I	2017 11 21.230757	23 17 03.790	+06 32 36.01				250
Geocentric position (km)	+ 3002.0	+ 6158.1	+ 928.0				
1I	2017 11 22.222847	23 16 57.168	+06 35 44.32	24.9	G	29	568
1I	2017 11 22.246144	23 16 56.979	+06 35 48.63	25.0	G	29	568
1I	2017 11 22.269437	23 16 56.790	+06 35 53.21	25.0	G	29	568
1I	2017 11 22.292688	23 16 56.602	+06 35 57.52	24.7	G	29	568
1I	2017 11 22.316355	23 16 56.416	+06 36 02.00	24.9	G	29	568
1I	2017 11 22.530352	23 16 55.828	+06 36 47.89				250
Geocentric position (km)	+ 1959.5	− 5866.8	− 3104.3				

1I	2017 11 22.536614	23 16 55.598	+06 36 49.49					250
Geocentric position (km)		+ 5131.8	− 3358.1	− 3206.3				
1I	2017 11 22.542875	23 16 55.316	+06 36 49.82					250
Geocentric position (km)		+ 6549.9	+ 0298.0	− 2209.5				
1I	2017 11 22.549137	23 16 55.067	+06 36 49.16					250
Geocentric position (km)		+ 5726.3	+ 3851.8	− 454.7				
1I	2017 11 22.555398	23 16 54.928	+06 36 48.17					250
Geocentric position (km)		+ 2939.8	+ 6084.8	+ 1456.3				
1I	2017 11 23.038940	23 16 53.146	+06 38 25.80	25.0	G			304
1I	2017 11 23.070610	23 16 52.967	+06 38 32.02	24.6	G			304
1I	2017 11 23.274337	23 16 52.324	+06 39 06.39	25.1	G			29 568
1I	2017 11 23.288299	23 16 52.248	+06 39 09.09					29 568
1I	2017 11 23.373957	23 16 51.831	+06 39 25.49	25.6	G			29 568
1I	2017 12 12.064682	23 20 53.377	+07 45 46.66					250
Geocentric position (km)		+ 1679.8	− 6660.5	+ 794.3				
1I	2017 12 12.070943	23 20 53.411	+07 45 47.30					250
Geocentric position (km)		+ 4666.2	− 4478.2	+ 2443.6				
1I	2017 12 12.077205	23 20 53.394	+07 45 48.32					250
Geocentric position (km)		+ 6052.6	− 0759.9	+ 3252.8				
1I	2017 12 12.083467	23 20 53.382	+07 45 49.84					250
Geocentric position (km)		+ 5364.0	+ 3218.8	+ 2943.9				
1I	2017 12 12.089728	23 20 53.428	+07 45 51.86					250
Geocentric position (km)		+ 2836.8	+ 6094.0	+ 1623.1				
1I	2018 01 02.320620	23 31 48.321	+09 16 31.37					250
Geocentric position (km)		+ 1638.4	− 6507.3	+ 1657.0				
1I	2018 01 02.326882	23 31 48.484	+09 16 34.18					250
Geocentric position (km)		+ 4853.0	− 4919.9	− 229.1				
1I	2018 01 02.333143	23 31 48.597	+09 16 36.83					250
Geocentric position (km)		+ 6402.6	− 1644.4	− 2036.4				
1I	2018 01 02.339405	23 31 48.704	+09 16 39.00					250
Geocentric position (km)		+ 5759.0	+ 2194.7	− 3144.5				
1I	2018 01 02.345666	23 31 48.841	+09 16 40.54					250
Geocentric position (km)		+ 3145.7	+ 5283.4	− 3174.2				
1I	2018 01 02.453062	23 31 53.051	+09 17 08.10					250
Geocentric position (km)		+ 1635.1	− 6519.2	+ 1612.9				
1I	2018 01 02.459324	23 31 53.213	+09 17 10.92					250
Geocentric position (km)		+ 4843.1	− 4927.1	− 279.6				
1I	2018 01 02.465585	23 31 53.329	+09 17 13.56					250
Geocentric position (km)		+ 6389.8	− 1644.4	− 2076.1				
1I	2018 01 02.471847	23 31 53.435	+09 17 15.72					250
Geocentric position (km)		+ 5747.8	+ 2202.1	− 3159.8				
1I	2018 01 02.478108	23 31 53.570	+09 17 17.23					250
Geocentric position (km)		+ 3139.8	+ 5295.5	− 3159.8				

2P/Encke

2P	2018 08 08.49163	22 59 38.521	−05 42 19.94	20.4	w	F51
2P	2018 08 08.50343	22 59 37.919	−05 42 22.97	20.4	w	F51
2P	2018 08 08.52708	22 59 36.709	−05 42 28.99	20.4	w	F51
2P	2018 08 11.50271	22 57 04.441	−05 55 28.41	20.2	w	F51
2P	2018 08 11.51470	22 57 03.805	−05 55 31.57	20.1	w	F51
2P	2018 08 11.52672	22 57 03.161	−05 55 34.83	20.2	w	F51
2P	2018 08 11.53878	22 57 02.519	−05 55 38.07	20.3	w	F51
2P	2018 09 01.35764	22 37 16.58	−07 37 31.5	20.0	G	703
2P	2018 09 01.36305	22 37 16.32	−07 37 33.6	20.2	G	703
2P	2018 09 01.36846	22 37 16.03	−07 37 37.1	19.4	G	703
2P	2018 09 01.37387	22 37 15.78	−07 37 38.0	19.1	G	703
2P	2018 09 07.20657	22 31 32.80	−08 06 53.8	19.7	G	703
2P	2018 09 07.21234	22 31 32.43	−08 06 57.0	19.6	G	703
2P	2018 09 07.21810	22 31 32.09	−08 06 58.9	20.0	G	703
2P	2018 09 07.22386	22 31 31.81	−08 06 59.7	19.7	G	703
2P	2018 09 07.25327	22 31 30.01	−08 07 08.4	19.8	G	G96
2P	2018 09 07.25892	22 31 29.68	−08 07 10.2	19.9	G	G96
2P	2018 09 07.26455	22 31 29.34	−08 07 11.6	19.9	G	G96
2P	2018 09 07.27018	22 31 29.01	−08 07 13.6	20.1	G	G96
2P	2018 09 14.18731	22 24 54.87	−08 40 36.0	20.2	G	G96
2P	2018 09 14.19306	22 24 54.56	−08 40 37.8	20.4	G	G96
2P	2018 09 14.19882	22 24 54.23	−08 40 39.4	20.1	G	G96
2P	2018 09 14.20457	22 24 53.90	−08 40 40.9	20.4	G	G96

14P/Wolf

14P	2018 09 15.48832	05 28 18.07	+03 12 27.2	20.8	G	G96
14P	2018 09 15.49226	05 28 18.24	+03 12 24.8	20.7	G	G96
14P	2018 09 15.50073	05 28 18.53	+03 12 20.6	20.6	G	G96
14P	2018 09 15.50470	05 28 18.66	+03 12 18.4	20.9	G	G96

21P/Giacobini-Zinner

21P	2018 08 03.94769	00 27 27.53	+66 10 37.3	11.9	N	J22
21P	2018 08 03.94953	00 27 28.54	+66 10 38.1	11.9	N	J22
21P	2018 08 03.95137	00 27 29.72	+66 10 39.2	11.9	N	J22
21P	2018 08 04.52218	00 33 07.74	+66 16 13.3			367
21P	2018 08 04.52420	00 33 08.93	+66 16 14.6			367
21P	2018 08 04.52623	00 33 10.15	+66 16 15.7	8.8	T	367
21P	2018 08 05.00149	00 37 55.61	+66 20 21.6	11.6	N	K02
21P	2018 08 05.00833	00 37 59.77	+66 20 25.3	11.6	N	K02
21P	2018 08 05.01130	00 38 00.99	+66 20 30.3	10.9	N	585
21P	2018 08 05.01310	00 38 02.09	+66 20 31.1	10.9	N	585
21P	2018 08 05.01493	00 38 03.16	+66 20 32.0	10.9	N	585
21P	2018 08 05.01609	00 38 04.44	+66 20 29.3	11.6	N	K02
21P	2018 08 05.01822	00 38 05.06	+66 20 33.5	10.7	N	585
21P	2018 08 05.02003	00 38 06.21	+66 20 34.5	10.6	N	585
21P	2018 08 05.02184	00 38 07.30	+66 20 35.5	10.6	N	585
21P	2018 08 05.02366	00 38 08.38	+66 20 36.3	10.6	N	585
21P	2018 08 05.02547	00 38 09.48	+66 20 37.3	10.6	N	585
21P	2018 08 05.02728	00 38 10.57	+66 20 38.2	10.6	N	585
21P	2018 08 05.02910	00 38 11.63	+66 20 39.0	10.6	N	585
21P	2018 08 05.03091	00 38 12.71	+66 20 39.8	10.7	N	585
21P	2018 08 05.03634	00 38 15.95	+66 20 42.5	10.7	N	585
21P	2018 08 05.03815	00 38 17.04	+66 20 43.4	10.7	N	585
21P	2018 08 05.04178	00 38 19.22	+66 20 45.1	10.7	N	585
21P	2018 08 05.04359	00 38 20.29	+66 20 45.9	10.9	N	585
21P	2018 08 05.63124	00 44 21.82	+66 24 53.2	8.8	T	349
21P	2018 08 05.63407	00 44 23.50	+66 24 54.1			349
21P	2018 08 05.63692	00 44 25.29	+66 24 55.4			349
21P	2018 08 06.01273	00 48 18.40	+66 27 00.1	11.6	N	K02
21P	2018 08 06.02044	00 48 23.16	+66 27 02.8	11.6	N	K02
21P	2018 08 06.02899	00 48 28.46	+66 27 05.8	11.6	N	K02
21P	2018 08 08.85302	01 18 53.28	+66 29 52.1	11.6	R	152

21P	2018 08 08.85686	01 18 55.88	+66 29 51.6	11.9	R		152
21P	2018 08 08.86550	01 19 01.59	+66 29 50.2	12.2	R		152
21P	2018 08 08.87507	01 19 07.96	+66 29 48.5	12.1	R		152
21P	2018 08 09.87468	01 30 17.43	+66 24 40.1	11.8	N		238
21P	2018 08 09.89033	01 30 27.96	+66 24 33.8	11.8	N		238
21P	2018 08 09.97844	01 31 27.20	+66 24 00.1	10.9	N		I81
21P	2018 08 10.01160	01 31 49.08	+66 23 51.3	11.5	R		152
21P	2018 08 10.01647	01 31 52.21	+66 23 49.2	11.5	R		152
21P	2018 08 10.02250	01 31 56.25	+66 23 46.5	11.5	R		152
21P	2018 08 10.05108	01 32 15.91	+66 23 31.7	10.9	N		I81
21P	2018 08 11.03865	01 43 25.85	+66 14 28.5	12.0	N		238
21P	2018 08 11.04193	01 43 28.07	+66 14 27.3	12.0	N		238
21P	2018 08 11.04666	01 43 31.27	+66 14 25.5	12.0	N		238
21P	2018 08 11.48669	01 48 32.90	+66 09 08.2	7.5	T		D95
21P	2018 08 11.48888	01 48 34.38	+66 09 06.4				D95
21P	2018 08 11.49326	01 48 37.36	+66 09 03.8				D95
21P	2018 08 12.95397	02 05 16.85	+65 46 51.8	12.6	G		C47
21P	2018 08 12.95877	02 05 20.24	+65 46 47.4	12.7	G		C47
21P	2018 08 12.96430	02 05 23.91	+65 46 41.9	12.7	G		C47
21P	2018 08 12.96984	02 05 27.71	+65 46 36.0	12.6	G		C47
21P	2018 08 12.97537	02 05 31.45	+65 46 30.9	12.9	G		C47
21P	2018 08 12.98091	02 05 35.30	+65 46 24.4	12.5	G		C47
21P	2018 08 13.06838	02 06 34.57	+65 44 49.2	12.3	N		238
21P	2018 08 13.07680	02 06 40.14	+65 44 39.1	12.3	N		238
21P	2018 08 13.08410	02 06 44.96	+65 44 30.5	12.3	N		238
21P	2018 08 13.11193	02 07 04.15	+65 44 06.6	11.4	N		I72
21P	2018 08 13.12839	02 07 15.05	+65 43 49.2	11.4	N		I72
21P	2018 08 13.14645	02 07 27.29	+65 43 29.2	11.4	N		I72
21P	2018 08 13.44726	02 10 53.82	+65 37 39.4	11.5	N		12U69
21P	2018 08 13.44889	02 10 54.93	+65 37 37.3				12U69
21P	2018 08 13.45306	02 10 57.66	+65 37 32.9	11.2	N		12U69
21P	2018 08 13.87372	02 15 45.78	+65 28 31.5	11.5	R		B96
21P	2018 08 13.87948	02 15 49.65	+65 28 24.3	12.0	R		B96
21P	2018 08 13.88402	02 15 52.87	+65 28 18.6	11.5	R		B96
21P	2018 08 13.88939	02 15 56.52	+65 28 12.1	11.4	R		B96
21P	2018 08 13.89475	02 16 00.25	+65 28 05.5	11.4	R		B96
21P	2018 08 13.90012	02 16 03.91	+65 27 58.2	11.3	R		B96
21P	2018 08 13.90548	02 16 07.58	+65 27 52.1	11.4	R		B96
21P	2018 08 14.07132	02 18 00.24	+65 24 24.0	12.0	N		A77
21P	2018 08 14.07285	02 18 01.38	+65 24 22.2	12.0	N		A77
21P	2018 08 14.07488	02 18 02.60	+65 24 19.5	12.0	N		A77
21P	2018 08 14.07692	02 18 03.95	+65 24 16.6	12.0	N		A77
21P	2018 08 14.08059	02 18 06.50	+65 24 12.0	11.7	N		A77
21P	2018 08 14.08223	02 18 07.69	+65 24 10.1	11.7	N		A77
21P	2018 08 14.08427	02 18 08.89	+65 24 07.1	11.7	N		A77
21P	2018 08 14.08642	02 18 10.30	+65 24 04.2	11.8	N		A77
21P	2018 08 14.42895	02 22 03.38	+65 16 13.6	11.3	R		30H06
21P	2018 08 14.43063	02 22 04.39	+65 16 11.2	12.6	R		30H06
21P	2018 08 14.43157	02 22 05.08	+65 16 10.0	12.6	R		30H06
21P	2018 08 14.43297	02 22 05.93	+65 16 08.0	12.5	R		30H06
21P	2018 08 14.60946	02 24 05.60	+65 11 55.9	11.4	c		T05
21P	2018 08 14.61840	02 24 11.52	+65 11 42.8	11.4	c		T05
21P	2018 08 14.62729	02 24 17.40	+65 11 29.9	11.5	c		T05
21P	2018 08 14.63609	02 24 23.22	+65 11 16.8	11.5	c		T05
21P	2018 08 14.85274	02 26 51.59	+65 05 27.5	11.4	R		C10
21P	2018 08 14.87081	02 27 04.11	+65 04 58.8	9.6	T		C10
21P	2018 08 14.88698	02 27 14.90	+65 04 36.6	11.4	R		C10
21P	2018 08 14.95906	02 28 03.30	+65 02 48.0	10.8	N		I81
21P	2018 08 14.95994	02 28 03.96	+65 02 46.9	10.8	N		I81
21P	2018 08 14.96370	02 28 06.59	+65 02 41.2	10.8	N		I81
21P	2018 08 14.96445	02 28 06.92	+65 02 40.4	10.8	N		I81
21P	2018 08 14.96671	02 28 08.54	+65 02 36.8	10.8	N		I81
21P	2018 08 15.03762	02 28 55.88	+65 00 51.2	12.5	N		238
21P	2018 08 15.04128	02 28 58.45	+65 00 45.0	12.5	N		238
21P	2018 08 15.04640	02 29 02.04	+65 00 36.2	12.5	N		238
21P	2018 08 15.09644	02 29 36.08	+64 59 23.5	11.3	R		A77
21P	2018 08 15.10354	02 29 40.80	+64 59 12.6	11.3	R		A77
21P	2018 08 15.10720	02 29 43.32	+64 59 05.2	10.7	N		J01
21P	2018 08 15.11158	02 29 46.17	+64 59 00.0	11.1	R		A77
21P	2018 08 15.11352	02 29 47.59	+64 58 55.7	10.8	N		J01
21P	2018 08 15.12303	02 29 53.95	+64 58 40.8	10.7	N		J01
21P	2018 08 15.38671	02 32 51.47	+64 51 36.2	11.1	R	K	H47
21P	2018 08 15.38727	02 32 51.75	+64 51 35.2	11.1	R	K	H47
21P	2018 08 15.38782	02 32 52.21	+64 51 34.5	11.2	R	K	H47
21P	2018 08 15.85166	02 38 03.87	+64 37 59.4	11.7	N		K97
21P	2018 08 15.85426	02 38 05.64	+64 37 55.0	11.7	N		K97
21P	2018 08 15.85620	02 38 06.90	+64 37 51.7	11.7	N		K97
21P	2018 08 15.85910	02 38 08.89	+64 37 46.7	11.7	N		K97
21P	2018 08 15.86058	02 38 10.02	+64 37 42.2	9.6	T		C10
21P	2018 08 15.87356	02 38 18.76	+64 37 21.5	11.3	R		C10
21P	2018 08 15.87457	02 38 19.60	+64 37 19.2	9.6	N		L12
21P	2018 08 15.87773	02 38 21.40	+64 37 14.5	11.6	N		C23
21P	2018 08 15.88163	02 38 24.60	+64 37 06.0	9.9	N		L12
21P	2018 08 15.88792	02 38 28.37	+64 36 56.7	11.3	R		C10
21P	2018 08 15.88868	02 38 29.02	+64 36 55.0	9.8	N		L12
21P	2018 08 15.89270	02 38 31.47	+64 36 48.8	11.2	N		C23
21P	2018 08 15.89736	02 38 34.88	+64 36 40.5	11.1	N		C86
21P	2018 08 15.89826	02 38 35.42	+64 36 39.2	11.1	N		C86
21P	2018 08 15.89887	02 38 35.81	+64 36 38.4	11.1	N		C86
21P	2018 08 15.90692	02 38 40.99	+64 36 24.3	11.3	N		C23
21P	2018 08 16.18670	02 41 47.03	+64 28 13.6	10.8	N	2	G40
21P	2018 08 16.18765	02 41 47.69	+64 28 11.9	10.8	N	2	G40
21P	2018 08 16.18866	02 41 48.34	+64 28 10.1	10.7	N	2	G40
21P	2018 08 16.19028	02 41 49.38	+64 28 07.1	10.8	N	2	G40
21P	2018 08 16.19123	02 41 50.00	+64 28 05.4	10.8	N	2	G40
21P	2018 08 16.19222	02 41 50.63	+64 28 03.6	10.8	N	2	G40
21P	2018 08 16.85146	02 49 07.52	+64 06 27.4	11.9	N	K	107
21P	2018 08 16.85648	02 49 10.77	+64 06 18.7	12.5	G		C47
21P	2018 08 16.86164	02 49 14.11	+64 06 08.5	12.5	G		C47
21P	2018 08 16.86718	02 49 17.75	+64 05 57.5	12.5	G		C47
21P	2018 08 16.87271	02 49 21.46	+64 05 46.9	12.5	G		C47
21P	2018 08 16.87545	02 49 23.49	+64 05 40.6	11.9	N	K	107
21P	2018 08 16.87825	02 49 25.21	+64 05 36.0	12.7	G		C47
21P	2018 08 16.882323	02 49 27.52	+64 05 25.1	10.6	N		Z92
21P	2018 08 16.88378	02 49 28.87	+64 05 25.0	12.5	G		C47
21P	2018 08 16.89944	02 49 39.32	+64 04 54.1	11.9	N	K	107

21P	2018 08 16.901751	02 49 40.41	+64 04 47.0	10.6	N	Z92	21P	2018 08 17.93941	03 00 56.19	+63 27 35.2	11.5	N	C23
21P	2018 08 16.917021	02 49 50.50	+64 04 16.9	10.7	N	Z92	21P	2018 08 17.94545	03 00 59.48	+63 27 24.6	12.0	R	152
21P	2018 08 16.92343	02 49 55.09	+64 04 07.0	11.8	N	K 107	21P	2018 08 17.94968	03 01 02.40	+63 27 12.2	11.4	R	B96
21P	2018 08 16.958322	02 50 17.83	+64 02 55.3	8.4	T	K Z37	21P	2018 08 17.95025	03 01 02.52	+63 27 13.9	12.2	R	152
21P	2018 08 16.959794	02 50 18.84	+64 02 52.4	11.4	N	K Z37	21P	2018 08 17.95324	03 01 04.70	+63 27 04.3	11.4	R	B96
21P	2018 08 16.961265	02 50 19.71	+64 02 49.7	11.4	N	K Z37	21P	2018 08 17.95681	03 01 06.95	+63 26 56.5	11.5	R	B96
21P	2018 08 16.962737	02 50 20.70	+64 02 47.0	11.5	N	K Z37	21P	2018 08 17.95872	03 01 08.13	+63 26 55.4	12.4	R	152
21P	2018 08 16.964209	02 50 21.67	+64 02 43.9	11.5	N	K Z37	21P	2018 08 17.96095	03 01 09.64	+63 26 47.2	11.4	R	B96
21P	2018 08 16.965681	02 50 22.71	+64 02 40.8	11.4	N	K Z37	21P	2018 08 17.96444	03 01 11.65	+63 26 42.6	12.6	R	152
21P	2018 08 16.967153	02 50 23.69	+64 02 38.0	11.4	N	K Z37	21P	2018 08 17.96510	03 01 12.32	+63 26 38.1	11.5	R	B96
21P	2018 08 16.968623	02 50 24.59	+64 02 35.3	11.5	N	K Z37	21P	2018 08 17.96927	03 01 15.00	+63 26 28.7	11.5	R	B96
21P	2018 08 16.970095	02 50 25.57	+64 02 32.2	11.4	N	K Z37	21P	2018 08 17.97369	03 01 17.90	+63 26 18.7	11.6	R	B96
21P	2018 08 16.971572	02 50 26.59	+64 02 29.2	11.4	N	K Z37	21P	2018 08 17.98036	03 01 22.16	+63 26 03.9	11.8	R	B96
21P	2018 08 17.01370	02 50 54.36	+64 01 07.3	11.0	N	213	21P	2018 08 17.99338	03 01 30.77	+63 25 33.5	10.1	N	L12
21P	2018 08 17.02661	02 51 02.68	+64 00 42.1	11.0	N	213	21P	2018 08 17.99560	03 01 32.30	+63 25 29.6	10.0	N	L12
21P	2018 08 17.04118	02 51 12.35	+64 00 13.2	11.0	N	213	21P	2018 08 17.99793	03 01 33.84	+63 25 24.5	10.2	N	L12
21P	2018 08 17.05172	02 51 19.01	+63 59 49.4	11.0	N	K02	21P	2018 08 18.00013	03 01 35.18	+63 25 19.5	10.1	N	L12
21P	2018 08 17.05852	02 51 23.49	+63 59 36.1	10.9	N	K02	21P	2018 08 18.06558	03 02 17.09	+63 22 53.1	11.0	N	J01
21P	2018 08 17.06627	02 51 28.37	+63 59 20.5	11.0	N	K02	21P	2018 08 18.07302	03 02 21.33	+63 22 37.5	11.6	N	A77
21P	2018 08 17.08227	02 51 38.64	+63 58 50.6	11.6	N	A77	21P	2018 08 18.07470	03 02 22.43	+63 22 33.3	11.6	N	A77
21P	2018 08 17.08442	02 51 40.07	+63 58 46.1	11.6	N	A77	21P	2018 08 18.07602	03 02 23.30	+63 22 30.7	11.6	N	A77
21P	2018 08 17.08697	02 51 41.79	+63 58 41.1	11.6	N	A77	21P	2018 08 18.07778	03 02 24.32	+63 22 26.7	11.5	N	A77
21P	2018 08 17.09001	02 51 43.76	+63 58 34.8	11.5	N	A77	21P	2018 08 18.07954	03 02 25.41	+63 22 22.7	11.6	N	A77
21P	2018 08 17.09428	02 51 46.48	+63 58 26.2	11.6	N	A77	21P	2018 08 18.08330	03 02 28.35	+63 22 13.0	11.0	N	J01
21P	2018 08 17.09684	02 51 48.07	+63 58 21.1	11.6	N	A77	21P	2018 08 18.09485	03 02 35.49	+63 21 49.5	10.6	R	B53
21P	2018 08 17.12358	02 52 05.61	+63 57 26.7	11.3	R	K A77	21P	2018 08 18.09845	03 02 37.39	+63 21 41.8	11.4	R	B53
21P	2018 08 17.13719	02 52 14.39	+63 56 58.5	11.3	R	K A77	21P	2018 08 18.10205	03 02 40.02	+63 21 32.4	10.0	R	B53
21P	2018 08 17.14516	02 52 19.49	+63 56 42.4	8.7	T	K A77	21P	2018 08 18.10564	03 02 41.40	+63 21 27.0	11.3	R	B53
21P	2018 08 17.39138	02 55 00.43	+63 48 03.8	10.9	R	H47	21P	2018 08 18.10924	03 02 43.77	+63 21 18.9	11.0	R	B53
21P	2018 08 17.39277	02 55 01.30	+63 48 00.9	10.9	R	H47	21P	2018 08 18.10958	03 02 44.97	+63 21 13.4	11.0	N	J01
21P	2018 08 17.39416	02 55 02.18	+63 47 58.0	10.9	R	H47	21P	2018 08 18.11282	03 02 46.58	+63 21 06.6	10.1	R	B53
21P	2018 08 17.39556	02 55 03.07	+63 47 55.0	10.9	R	H47	21P	2018 08 18.11642	03 02 48.47	+63 21 01.8	11.2	R	B53
21P	2018 08 17.39671	02 55 03.83	+63 47 52.6	10.9	R	H47	21P	2018 08 18.12001	03 02 50.19	+63 20 54.6	9.5	R	B53
21P	2018 08 17.69782	02 58 21.13	+63 36 45.1	10.1	N	G26	21P	2018 08 18.12384	03 02 52.99	+63 20 45.1	9.5	R	B53
21P	2018 08 17.72512	02 58 37.17	+63 35 50.8	7.3	T	D95	21P	2018 08 18.86876	03 10 47.29	+62 50 24.0	9.5	V	C43
21P	2018 08 17.72808	02 58 40.54	+63 35 41.0	10.1	N	G26	21P	2018 08 18.87078	03 10 48.58	+62 50 19.2	9.5	V	C43
21P	2018 08 17.73241	02 58 41.80	+63 35 34.9			D95	21P	2018 08 18.87280	03 10 49.87	+62 50 14.1	9.5	V	C43
21P	2018 08 17.73903	02 58 46.00	+63 35 20.4			D95	21P	2018 08 18.87483	03 10 51.07	+62 50 09.3	9.5	V	C43
21P	2018 08 17.78502	02 59 15.17	+63 33 39.6	8.1	T	Q23	21P	2018 08 18.87684	03 10 52.31	+62 50 04.1	9.5	V	C43
21P	2018 08 17.79086	02 59 18.87	+63 33 26.6			Q23	21P	2018 08 18.87885	03 10 53.63	+62 49 59.4	9.5	V	C43
21P	2018 08 17.79478	02 59 21.32	+63 33 17.8			Q23	21P	2018 08 18.88230	03 10 55.73	+62 49 51.0	9.5	V	C43
21P	2018 08 17.80067	02 59 25.06	+63 33 04.9			Q23	21P	2018 08 18.96537	03 11 47.88	+62 46 25.0	10.4	N	I81
21P	2018 08 17.82808	02 59 44.08	+63 31 44.3	9.2	N	A98	21P	2018 08 18.96990	03 11 50.73	+62 46 13.8	10.4	N	I81
21P	2018 08 17.82916	02 59 44.72	+63 31 41.9	9.3	N	A98	21P	2018 08 18.97099	03 11 51.40	+62 46 11.1	10.4	N	I81
21P	2018 08 17.83023	02 59 45.45	+63 31 39.7	9.3	N	A98	21P	2018 08 18.97325	03 11 52.90	+62 46 05.2	10.3	N	I81
21P	2018 08 17.83130	02 59 46.15	+63 31 37.4	9.3	N	A98	21P	2018 08 19.00154	03 12 09.95	+62 44 57.6	11.6	N	238
21P	2018 08 17.83237	02 59 46.84	+63 31 35.1	9.3	N	A98	21P	2018 08 19.00630	03 12 13.34	+62 44 45.3	11.6	N	238
21P	2018 08 17.83345	02 59 47.53	+63 31 32.7	9.2	N	A98	21P	2018 08 19.01252	03 12 17.79	+62 44 29.4	11.5	N	238
21P	2018 08 17.83668	02 59 49.62	+63 31 25.6	9.3	N	A98	21P	2018 08 19.12020	03 13 24.23	+62 40 02.5			204
21P	2018 08 17.83775	02 59 50.36	+63 31 23.2	9.2	N	A98	21P	2018 08 19.12459	03 13 26.94	+62 39 51.3	11.5	R	204
21P	2018 08 17.91395	03 00 39.37	+63 28 31.6	11.4	N	C23	21P	2018 08 19.12914	03 13 29.73	+62 39 39.8			204
21P	2018 08 17.92668	03 00 47.87	+63 28 03.6	11.5	N	C23	21P	2018 08 19.65480	03 18 58.36	+62 16 22.6	10.0	N	G26
21P	2018 08 17.93848	03 00 55.06	+63 27 40.0	11.6	R	152	21P	2018 08 19.67983	03 19 13.80	+62 15 20.5	10.2	N	G26

21P	2018 08 19.89277	03 21 22.96	+62 05 28.1	9.6	V	C43	
21P	2018 08 19.89477	03 21 24.17	+62 05 22.6	9.6	V	C43	
21P	2018 08 19.89677	03 21 25.41	+62 05 17.3	9.6	V	C43	
21P	2018 08 19.89907	03 21 26.86	+62 05 11.0	9.6	V	C43	
21P	2018 08 19.92025	03 21 39.88	+62 04 15.2	11.4	N	213	
21P	2018 08 19.92465	03 21 42.85	+62 04 03.0	11.3	N	213	
21P	2018 08 19.92911	03 21 45.38	+62 03 50.5	11.4	N	213	
21P	2018 08 19.98007	03 22 16.64	+62 01 33.1	12.5	N	K B70	
21P	2018 08 19.98350	03 22 18.80	+62 01 25.1	10.0	G	104	
21P	2018 08 19.98564	03 22 20.08	+62 01 18.4	12.3	N	K B70	
21P	2018 08 19.99029	03 22 22.98	+62 01 05.8	12.5	N	K B70	
21P	2018 08 19.99279	03 22 24.43	+62 01 00.0	10.0	G	104	
21P	2018 08 20.04924	03 22 58.35	+61 58 25.0	8.8	G	K74	
21P	2018 08 20.06344	03 23 06.91	+61 57 45.7	8.8	G	K74	
21P	2018 08 20.07049	03 23 11.08	+61 57 26.7	8.7	G	K74	
21P	2018 08 20.08669	03 23 21.02	+61 56 42.6	11.2	N	A77	
21P	2018 08 20.08850	03 23 22.15	+61 56 37.4	11.3	N	A77	
21P	2018 08 20.09075	03 23 23.49	+61 56 31.0	11.3	N	A77	
21P	2018 08 20.09301	03 23 24.85	+61 56 25.0	11.3	N	A77	
21P	2018 08 20.09453	03 23 25.73	+61 56 21.1	11.5	N	A77	
21P	2018 08 20.09678	03 23 27.11	+61 56 14.5	11.5	N	A77	
21P	2018 08 20.09904	03 23 28.43	+61 56 08.3	11.5	N	A77	
21P	2018 08 20.10277	03 23 30.66	+61 55 58.1	11.5	N	A77	
21P	2018 08 20.10475	03 23 31.90	+61 55 52.9	11.6	N	A77	
21P	2018 08 20.10700	03 23 33.31	+61 55 46.4	11.5	N	A77	
21P	2018 08 20.11124	03 23 35.70	+61 55 34.7	11.4	N	A77	
21P	2018 08 20.11375	03 23 37.26	+61 55 27.9	11.3	N	A77	
21P	2018 08 20.11981	03 23 41.30	+61 55 10.0	11.1	N	J01	
21P	2018 08 20.12465	03 23 44.28	+61 54 56.8	11.1	N	J01	
21P	2018 08 20.13270	03 23 48.87	+61 54 35.8	11.1	N	L17	
21P	2018 08 20.13918	03 23 53.03	+61 54 16.3	11.1	N	J01	
21P	2018 08 20.13991	03 23 53.17	+61 54 15.7	11.1	N	L17	
21P	2018 08 20.16628	03 24 08.88	+61 53 01.9	11.1	N	L17	
21P	2018 08 20.92152	03 31 42.90	+61 16 03.8	10.3	N	970	
21P	2018 08 20.94369	03 31 56.12	+61 14 58.5	10.3	N	970	
21P	2018 08 20.95413	03 32 02.30	+61 14 33.3	10.6	N	585	
21P	2018 08 20.95745	03 32 04.25	+61 14 23.5	10.6	N	585	
21P	2018 08 20.95938	03 32 05.38	+61 14 17.8	10.6	N	585	
21P	2018 08 20.96131	03 32 06.53	+61 14 12.0	10.6	N	585	
21P	2018 08 20.96323	03 32 07.44	+61 13 59.7	11.3	N	I81	
21P	2018 08 20.96324	03 32 07.67	+61 14 06.3	10.6	N	585	
21P	2018 08 20.96516	03 32 08.79	+61 14 00.7	10.6	N	585	
21P	2018 08 20.96625	03 32 09.19	+61 13 51.0	11.3	N	I81	
21P	2018 08 20.96709	03 32 09.92	+61 13 55.0	10.6	N	585	
21P	2018 08 20.96902	03 32 11.07	+61 13 49.3	10.6	N	585	
21P	2018 08 20.97001	03 32 11.27	+61 13 39.8	11.4	N	I81	
21P	2018 08 20.97118	03 32 12.33	+61 13 42.8	10.6	N	585	
21P	2018 08 20.97190	03 32 12.77	+61 13 40.7	10.6	N	585	
21P	2018 08 20.97263	03 32 13.19	+61 13 38.6	10.6	N	585	
21P	2018 08 20.97335	03 32 13.61	+61 13 36.5	10.6	N	585	
21P	2018 08 20.97407	03 32 13.95	+61 13 34.2	10.6	N	585	
21P	2018 08 20.97480	03 32 14.46	+61 13 32.2	10.6	N	585	
21P	2018 08 20.97552	03 32 14.89	+61 13 30.1	10.6	N	585	
21P	2018 08 21.01277	03 32 37.14	+61 11 37.3	12.4	N	K 160	
21P	2018 08 21.01888	03 32 40.72	+61 11 19.3	11.7	N	K 160	
21P	2018 08 21.01890	03 32 39.84	+61 11 12.9	12.3	N	238	
21P	2018 08 21.02219	03 32 41.93	+61 11 04.5	12.3	N	238	
21P	2018 08 21.02340	03 32 43.33	+61 11 05.9	12.1	N	K 160	
21P	2018 08 21.02840	03 32 45.88	+61 10 48.9	12.3	N	238	
21P	2018 08 21.04955	03 32 59.04	+61 09 47.1	10.8	N	L17	
21P	2018 08 21.05093	03 32 59.83	+61 09 43.0	10.9	N	L17	
21P	2018 08 21.05233	03 33 00.60	+61 09 38.8	10.9	N	L17	
21P	2018 08 21.875351	03 40 59.57	+60 26 24.5	10.1	N	Z92	
21P	2018 08 21.896236	03 41 11.73	+60 25 17.9	10.5	N	Z92	
21P	2018 08 21.91524	03 41 23.13	+60 24 17.9	10.7	N	L12	
21P	2018 08 21.91671	03 41 23.77	+60 24 13.6	10.7	N	L12	
21P	2018 08 21.918114	03 41 24.35	+60 24 08.2	10.6	N	Z92	
21P	2018 08 21.91817	03 41 24.50	+60 24 09.1	11.8	N	L12	
21P	2018 08 21.93944	03 41 36.79	+60 23 02.0	11.5	N	K97	
21P	2018 08 21.94532	03 41 40.19	+60 22 43.2	11.5	N	K97	
21P	2018 08 21.95017	03 41 42.98	+60 22 27.7	11.5	N	K97	
21P	2018 08 21.97042	03 41 54.27	+60 21 26.0	11.7	R	152	
21P	2018 08 21.97443	03 41 56.70	+60 21 13.0	11.7	R	152	
21P	2018 08 21.98278	03 42 01.33	+60 20 46.7	11.8	R	152	
21P	2018 08 21.99669	03 42 09.36	+60 20 01.3	11.9	R	152	
21P	2018 08 22.03168	03 42 29.54	+60 18 06.7	11.2	N	C23	
21P	2018 08 22.04066	03 42 34.63	+60 17 37.9	11.2	N	C23	
21P	2018 08 22.04965	03 42 39.73	+60 17 09.0	11.1	N	C23	
21P	2018 08 22.10223	03 43 09.57	+60 14 21.1	11.5	N	A77	
21P	2018 08 22.10350	03 43 10.28	+60 14 17.0	11.5	N	A77	
21P	2018 08 22.10468	03 43 10.87	+60 14 13.0	11.5	N	A77	
21P	2018 08 22.10586	03 43 11.61	+60 14 09.1	11.5	N	A77	
21P	2018 08 22.10649	03 43 11.95	+60 14 07.4	11.2	N	A77	
21P	2018 08 22.10769	03 43 12.65	+60 14 03.3	11.2	N	A77	
21P	2018 08 22.10888	03 43 13.34	+60 13 59.4	11.2	N	A77	
21P	2018 08 22.11005	03 43 13.91	+60 13 55.6	11.3	N	A77	
21P	2018 08 22.21478	03 44 13.37	+60 08 16.8	10.8	N	2 G40	
21P	2018 08 22.21573	03 44 13.93	+60 08 13.6	10.7	N	2 G40	
21P	2018 08 22.21676	03 44 14.46	+60 08 10.3	10.8	N	2 G40	
21P	2018 08 22.21791	03 44 15.08	+60 08 06.6	10.8	N	2 G40	
21P	2018 08 22.21885	03 44 15.63	+60 08 03.4	10.8	N	2 G40	
21P	2018 08 22.21987	03 44 16.18	+60 08 00.1	10.8	N	2 G40	
21P	2018 08 22.40758	03 46 02.70	+59 57 31.8	10.2	R	H47	
21P	2018 08 22.40856	03 46 03.24	+59 57 28.5	10.2	R	H47	
21P	2018 08 22.40979	03 46 03.91	+59 57 24.3	10.2	R	H47	
21P	2018 08 22.41127	03 46 04.70	+59 57 19.5	10.2	R	H47	
21P	2018 08 22.85698	03 50 14.89	+59 31 35.7	10.2	R	A77	
21P	2018 08 22.85992	03 50 16.49	+59 31 26.1	10.7	R	A77	
21P	2018 08 22.86450	03 50 19.18	+59 31 09.3	8.6	T	A77	
21P	2018 08 22.88579	03 50 30.32	+59 29 58.5	11.7	R	B96	
21P	2018 08 22.89112	03 50 33.32	+59 29 40.3	11.7	R	B96	
21P	2018 08 22.89528	03 50 35.64	+59 29 26.2	11.7	R	B96	
21P	2018 08 22.91896	03 50 48.87	+59 28 05.4	11.6	R	B96	
21P	2018 08 22.92169	03 50 50.66	+59 27 55.0	10.9	N	A58	
21P	2018 08 22.92510	03 50 52.37	+59 27 43.8	11.6	R	B96	
21P	2018 08 22.93005	03 50 55.22	+59 27 29.5	12.6	G	C47	

21P	2018 08 22.93046	03 50 55.35	+59 27 25.7	11.7	R		B96
21P	2018 08 22.93300	03 50 56.82	+59 27 19.3	12.5	G		C47
21P	2018 08 22.93659	03 50 58.75	+59 27 04.8	11.7	R		B96
21P	2018 08 22.93706	03 50 59.10	+59 27 05.6	12.6	G		C47
21P	2018 08 22.94112	03 51 01.32	+59 26 51.6	12.5	G		C47
21P	2018 08 22.94196	03 51 01.74	+59 26 46.5	11.7	R		B96
21P	2018 08 22.94518	03 51 03.54	+59 26 37.8	12.4	G		C47
21P	2018 08 22.94758	03 51 04.84	+59 26 27.8	11.9	R		B96
21P	2018 08 22.94924	03 51 05.85	+59 26 24.0	12.5	G		C47
21P	2018 08 22.95042	03 51 06.58	+59 26 16.8	10.9	N		A58
21P	2018 08 22.95211	03 51 07.53	+59 26 15.4	8.7	N		C36
21P	2018 08 22.95260	03 51 07.85	+59 26 13.8	8.7	N		C36
21P	2018 08 22.95309	03 51 08.13	+59 26 12.0	8.7	N		C36
21P	2018 08 22.95359	03 51 08.41	+59 26 10.3	8.6	N		C36
21P	2018 08 22.95425	03 51 08.63	+59 26 04.4	11.9	R		B96
21P	2018 08 22.95579	03 51 09.63	+59 26 02.8	8.6	N		C36
21P	2018 08 22.95795	03 51 10.77	+59 25 55.4	8.7	N		C36
21P	2018 08 22.96029	03 51 12.07	+59 25 47.5	8.7	N		C36
21P	2018 08 22.96102	03 51 12.52	+59 25 44.9	8.7	N		C36
21P	2018 08 22.96152	03 51 12.68	+59 25 43.3	8.7	N		C36
21P	2018 08 22.96201	03 51 13.00	+59 25 41.6	8.7	N		C36
21P	2018 08 22.97184	03 51 18.48	+59 25 03.4	10.9	N		A58
21P	2018 08 22.98903	03 51 27.74	+59 24 07.8	12.0	V	K	A71
21P	2018 08 22.98954	03 51 28.08	+59 24 06.3	12.1	V	K	A71
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21P	2018 08 23.01190	03 51 40.35	+59 22 46.6	11.4	N		238
21P	2018 08 23.01444	03 51 41.77	+59 22 37.7	11.4	N		238
21P	2018 08 23.02172	03 51 45.85	+59 22 12.1	11.6	N		238
21P	2018 08 23.08913	03 52 22.56	+59 18 21.8	11.5	G		K74
21P	2018 08 23.09132	03 52 23.74	+59 18 14.4	11.5	G		K74
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21P	2018 08 23.96737	04 00 18.98	+58 25 18.3	8.7	N		A98
21P	2018 08 23.97091	04 00 20.88	+58 25 05.4	8.5	N		A98
21P	2018 08 23.97596	04 00 23.53	+58 24 46.9	8.9	N		A98
21P	2018 08 23.97773	04 00 24.41	+58 24 40.3	8.8	N		A98
21P	2018 08 23.97950	04 00 25.36	+58 24 33.9	8.8	N		A98
21P	2018 08 23.98127	04 00 26.31	+58 24 27.1	8.5	N		A98
21P	2018 08 23.98304	04 00 27.30	+58 24 20.9	8.1	N		A98
21P	2018 08 23.98481	04 00 28.15	+58 24 14.5	8.9	N		A98
21P	2018 08 23.98659	04 00 29.13	+58 24 07.8	8.6	N		A98
21P	2018 08 23.99751	04 00 34.68	+58 23 23.6	10.1	N		I81
21P	2018 08 24.00052	04 00 36.22	+58 23 12.6	10.1	N		I81
21P	2018 08 24.02302	04 00 48.31	+58 21 50.2	10.2	N		I81
21P	2018 08 24.02980	04 00 51.81	+58 21 25.2	10.2	N		I81
21P	2018 08 24.11087	04 01 34.72	+58 16 30.7	11.0	N		A77
21P	2018 08 24.11269	04 01 35.66	+58 16 24.0	11.0	N		A77
21P	2018 08 24.11449	04 01 36.63	+58 16 17.2	11.1	N		A77
21P	2018 08 24.11520	04 01 36.98	+58 16 14.8	11.0	N		A77
21P	2018 08 24.11656	04 01 37.74	+58 16 09.2	10.9	N		A77
21P	2018 08 24.11792	04 01 38.46	+58 16 04.5	10.9	N		A77
21P	2018 08 24.11927	04 01 39.06	+58 15 59.5	11.0	N		A77
21P	2018 08 24.40037	04 04 07.30	+57 58 20.7	10.6	R		H47
21P	2018 08 24.40234	04 04 08.29	+57 58 13.4	10.5	R		H47
21P	2018 08 24.40456	04 04 09.39	+57 58 05.0	10.6	R		H47
21P	2018 08 24.40745	04 04 10.89	+57 57 54.1	10.6	R		H47
21P	2018 08 24.92270	04 08 38.67	+57 24 22.7	9.2	N		A98
21P	2018 08 24.92359	04 08 39.11	+57 24 19.3	9.2	N		A98
21P	2018 08 24.92536	04 08 40.03	+57 24 12.4	9.1	N		A98
21P	2018 08 24.92624	04 08 40.46	+57 24 09.1	9.1	N		A98
21P	2018 08 24.92801	04 08 41.36	+57 24 02.1	9.2	N		A98
21P	2018 08 24.92889	04 08 41.81	+57 23 58.7	9.2	N		A98
21P	2018 08 24.92978	04 08 42.27	+57 23 55.3	9.2	N		A98
21P	2018 08 24.93066	04 08 42.71	+57 23 51.9	9.1	N		A98
21P	2018 08 24.93155	04 08 43.15	+57 23 48.4	9.2	N		A98
21P	2018 08 24.93243	04 08 43.63	+57 23 45.1	9.3	N		A98
21P	2018 08 25.014763	04 09 25.61	+57 18 21.3	8.5	T	K	Z80
21P	2018 08 25.016219	04 09 26.37	+57 18 16.7	11.0	N	K	Z80
21P	2018 08 25.017668	04 09 27.05	+57 18 10.5	11.0	N	K	Z80
21P	2018 08 25.019124	04 09 27.74	+57 18 05.3	10.9	N	K	Z80
21P	2018 08 25.020573	04 09 28.58	+57 17 59.0	11.0	N	K	Z80
21P	2018 08 25.022027	04 09 29.25	+57 17 53.5	11.0	N	K	Z80
21P	2018 08 25.023478	04 09 30.03	+57 17 47.9	10.9	N	K	Z80
21P	2018 08 25.024936	04 09 30.72	+57 17 42.1	11.0	N	K	Z80
21P	2018 08 25.026385	04 09 31.56	+57 17 36.4	10.9	N	K	Z80
21P	2018 08 25.027841	04 09 32.24	+57 17 30.9	11.0	N	K	Z80
21P	2018 08 25.67597	04 14 59.62	+56 34 08.7	7.8	T		349
21P	2018 08 25.68696	04 15 05.03	+56 33 24.8				349
21P	2018 08 25.69790	04 15 10.45	+56 32 40.5				349
21P	2018 08 25.70887	04 15 15.84	+56 31 56.2				349
21P	2018 08 25.95750	04 17 18.79	+56 14 38.4	11.4	R		C10
21P	2018 08 25.96760	04 17 23.69	+56 13 57.6	11.4	R		C10
21P	2018 08 25.97767	04 17 28.75	+56 13 15.1	9.5	T		C10
21P	2018 08 27.11278	04 26 33.77	+54 52 32.4	11.2	R		B53
21P	2018 08 27.11360	04 26 34.11	+54 52 29.0	11.2	R		B53
21P	2018 08 27.11441	04 26 34.45	+54 52 25.5	11.1	R		B53
21P	2018 08 27.11523	04 26 34.97	+54 52 21.7	11.2	R		B53
21P	2018 08 27.11604	04 26 35.24	+54 52 18.3	11.2	R		B53
21P	2018 08 27.11686	04 26 35.63	+54 52 14.5	11.3	R		B53
21P	2018 08 27.11769	04 26 36.05	+54 52 11.2	11.2	R		B53
21P	2018 08 27.11850	04 26 36.28	+54 52 07.9	11.1	R		B53
21P	2018 08 27.11931	04 26 36.72	+54 52 04.4	11.2	R		B53
21P	2018 08 27.12013	04 26 37.02	+54 52 00.8	11.2	R		B53
21P	2018 08 27.12094	04 26 37.50	+54 51 57.3	11.2	R		B53
21P	2018 08 27.12175	04 26 37.82	+54 51 53.9	11.1	R		B53
21P	2018 08 27.12257	04 26 38.18	+54 51 50.4	11.1	R		B53
21P	2018 08 27.12338	04 26 38.52	+54 51 46.9	11.1	R		B53
21P	2018 08 27.12420	04 26 38.98	+54 51 42.9	11.2	R		B53
21P	2018 08 27.12503	04 26 39.37	+54 51 39.9	11.1	R		B53
21P	2018 08 27.12584	04 26 39.70	+54 51 36.2	11.1	R		B53
21P	2018 08 27.12667	04 26 40.05	+54 51 32.6	11.1	R		B53
21P	2018 08 27.12748	04 26 40.39	+54 51 28.6	11.1	R		B53
21P	2018 08 27.12830	04 26 40.80	+54 51 25.2	11.1	R		B53
21P	2018 08 27.12912	04 26 41.24	+54 51 21.4	11.3	R		B53
21P	2018 08 27.12993	04 26 41.60	+54 51 17.7	11.2	R		B53
21P	2018 08 27.13075	04 26 41.89	+54 51 14.4	11.2	R		B53
21P	2018 08 27.13156	04 26 42.38	+54 51 11.2	11.2	R		B53

21P	2018 08 27.13238	04 26 42.73	+54 51 07.7	11.2	R		B53
21P	2018 08 27.22654	04 27 26.73	+54 44 17.4	11.1	N	9	G40
21P	2018 08 27.23072	04 27 28.55	+54 43 59.5	11.1	N	9	G40
21P	2018 08 27.23505	04 27 30.56	+54 43 39.9	11.1	N	9	G40
21P	2018 08 27.23942	04 27 32.56	+54 43 21.0	11.1	N	9	G40
21P	2018 08 27.42513	04 28 59.79	+54 29 28.2	11.2	N		11U69
21P	2018 08 27.42757	04 29 00.91	+54 29 17.5	11.2	N		11U69
21P	2018 08 27.43038	04 29 02.16	+54 29 05.3	11.3	N		11U69
21P	2018 08 28.03901	04 33 40.53	+53 43 09.1	11.1	N		213
21P	2018 08 28.05569	04 33 48.02	+53 41 53.7	10.8	N		L17
21P	2018 08 28.07042	04 33 54.65	+53 40 47.2	10.8	N		L17
21P	2018 08 28.08723	04 34 02.15	+53 39 31.6	11.0	N		213
21P	2018 08 28.09730	04 34 06.60	+53 38 45.4	10.8	N		L17
21P	2018 08 28.15318	04 34 31.18	+53 34 32.6	10.9	N		213
21P	2018 08 28.92769	04 40 13.52	+52 33 53.3	11.4	N		L12
21P	2018 08 28.92843	04 40 13.79	+52 33 49.9	11.9	N		L12
21P	2018 08 28.92916	04 40 14.18	+52 33 46.3	11.2	N		L12
21P	2018 08 28.92988	04 40 14.42	+52 33 43.1	11.9	N		L12
21P	2018 08 28.93063	04 40 14.77	+52 33 39.5	11.9	N		L12
21P	2018 08 28.93995	04 40 18.97	+52 32 55.9	12.3	N		238
21P	2018 08 28.94543	04 40 21.32	+52 32 29.9	12.2	N		238
21P	2018 08 28.95274	04 40 24.44	+52 31 55.2	12.2	N		238
21P	2018 08 28.96649	04 40 30.51	+52 30 51.5	11.6	N		C23
21P	2018 08 28.97972	04 40 36.26	+52 29 49.4	11.3	N		C23
21P	2018 08 28.99467	04 40 42.74	+52 28 39.0	11.2	N		C23
21P	2018 08 29.02038	04 40 54.33	+52 26 38.7	11.1	N		212
21P	2018 08 29.02267	04 40 55.31	+52 26 27.9	11.1	N		212
21P	2018 08 29.02496	04 40 56.33	+52 26 17.2	11.1	N		212
21P	2018 08 29.08122	04 41 19.81	+52 21 49.5	12.3	N		238
21P	2018 08 29.08560	04 41 21.69	+52 21 28.6	12.3	N		238
21P	2018 08 29.09072	04 41 23.88	+52 21 04.2	12.3	N		238
21P	2018 08 30.01903	04 47 56.99	+51 05 44.2	11.1	N		Z55
21P	2018 08 30.02096	04 47 57.74	+51 05 34.4	11.1	N		Z55
21P	2018 08 30.02170	04 47 58.09	+51 05 31.4	11.1	N		Z55
21P	2018 08 30.15131	04 48 50.88	+50 54 55.1	10.9	N	K	A77
21P	2018 08 30.15651	04 48 53.17	+50 54 29.6	11.1	N	K	A77
21P	2018 08 30.16170	04 48 55.02	+50 54 04.1	8.1	T	K	A77
21P	2018 08 30.29214	04 49 49.54	+50 43 09.2	11.1	R		850
21P	2018 08 30.30640	04 49 55.33	+50 41 59.1	11.1	R		850
21P	2018 08 30.32110	04 50 01.19	+50 40 46.7	11.0	R		850
21P	2018 08 30.95102	04 54 14.77	+49 47 26.1	10.3	N		I81
21P	2018 08 30.95403	04 54 15.99	+49 47 10.8	10.3	N		I81
21P	2018 08 30.99381	04 54 31.92	+49 43 49.5	11.5	N		238
21P	2018 08 30.995839	04 54 32.83	+49 43 40.6	7.8	T	K	Z80
21P	2018 08 30.99637	04 54 32.96	+49 43 37.4	11.5	N		238
21P	2018 08 30.996869	04 54 33.29	+49 43 35.3	11.0	N	K	Z80
21P	2018 08 30.997839	04 54 33.59	+49 43 30.4	11.3	N	K	Z80
21P	2018 08 30.998802	04 54 34.01	+49 43 25.1	11.3	N	K	Z80
21P	2018 08 30.99965	04 54 34.28	+49 43 21.8	11.5	N		238
21P	2018 08 30.999774	04 54 34.42	+49 43 20.2	11.3	N	K	Z80
21P	2018 08 31.000741	04 54 34.77	+49 43 15.3	11.5	N	K	Z80
21P	2018 08 31.04091	04 54 50.59	+49 39 50.5	10.3	N		I81
21P	2018 08 31.04802	04 54 53.35	+49 39 14.4	10.3	N		I81
21P	2018 08 31.86874	05 00 13.06	+48 28 00.3	8.5	N		A98
21P	2018 08 31.87847	05 00 16.68	+48 27 10.7	8.5	N		A98
21P	2018 08 31.88112	05 00 17.69	+48 26 57.3	9.3	N		A98
21P	2018 08 31.88289	05 00 18.36	+48 26 47.7	8.9	N		A98
21P	2018 08 31.88377	05 00 18.74	+48 26 43.3	9.1	N		A98
21P	2018 08 31.88821	05 00 20.42	+48 26 20.2	8.7	N		A98
21P	2018 08 31.89263	05 00 22.05	+48 25 57.0	8.7	N		A98
21P	2018 08 31.94112	05 00 40.44	+48 21 42.4	11.8	N		C23
21P	2018 08 31.94787	05 00 42.96	+48 21 07.8	11.4	R		B96
21P	2018 08 31.95144	05 00 44.33	+48 20 48.9	11.4	R		B96
21P	2018 08 31.95147	05 00 44.44	+48 20 49.2	11.7	N		C23
21P	2018 08 31.95499	05 00 45.66	+48 20 30.4	11.4	R		B96
21P	2018 08 31.95989	05 00 47.59	+48 20 04.8	11.5	R		B96
21P	2018 08 31.96355	05 00 49.06	+48 19 45.8	11.1	N		C23
21P	2018 08 31.96602	05 00 49.86	+48 19 33.5	11.6	R		B96
21P	2018 08 31.97139	05 00 51.98	+48 19 04.9	11.5	R		B96
21P	2018 08 31.97856	05 00 54.69	+48 18 27.6	11.6	R		B96
21P	2018 08 31.98617	05 00 57.66	+48 17 47.4	11.7	R		B96
21P	2018 09 01.00169	05 01 03.54	+48 16 25.1	11.7	N		238
21P	2018 09 01.00498	05 01 04.73	+48 16 07.6	11.7	N		238
21P	2018 09 01.00862	05 01 06.04	+48 15 48.1	11.7	N		238
21P	2018 09 01.03385	05 01 15.95	+48 13 38.4	10.5	N		L12
21P	2018 09 01.03529	05 01 16.55	+48 13 30.1	10.5	N		L12
21P	2018 09 01.03672	05 01 17.02	+48 13 22.8	10.5	N		L12
21P	2018 09 01.04559	05 01 20.11	+48 12 36.5	11.2	N		K02
21P	2018 09 01.05238	05 01 22.68	+48 12 00.8	11.2	N		K02
21P	2018 09 01.06006	05 01 25.66	+48 11 20.5	11.2	N		K02
21P	2018 09 01.11182	05 01 45.11	+48 06 52.0	10.7	N		A77
21P	2018 09 01.11402	05 01 45.94	+48 06 40.5	10.7	N		A77
21P	2018 09 01.11668	05 01 46.92	+48 06 26.4	10.7	N		A77
21P	2018 09 01.11964	05 01 47.93	+48 06 10.9	11.2	N		A77
21P	2018 09 01.12150	05 01 48.61	+48 06 00.8	11.3	N		A77
21P	2018 09 01.12346	05 01 49.35	+48 05 50.9	11.3	N		A77
21P	2018 09 01.12638	05 01 50.51	+48 05 35.8	11.3	N		A77
21P	2018 09 01.13915	05 01 55.33	+48 04 27.7	11.4	R		A77
21P	2018 09 01.14622	05 01 57.90	+48 03 50.8	11.4	R		A77
21P	2018 09 01.15328	05 02 00.50	+48 03 13.2	8.5	T		A77
21P	2018 09 01.20840	05 02 21.51	+47 58 26.6	11.1	N	9	G40
21P	2018 09 01.21012	05 02 22.16	+47 58 17.2	11.1	N	9	G40
21P	2018 09 01.21207	05 02 22.84	+47 58 06.9	11.1	N	9	G40
21P	2018 09 01.92750	05 06 48.42	+46 53 44.8	8.5	N		C36
21P	2018 09 01.92881	05 06 48.82	+46 53 38.2	8.9	N		C36
21P	2018 09 01.92933	05 06 48.66	+46 53 31.2	10.4	N		I81
21P	2018 09 01.93012	05 06 49.30	+46 53 31.2	8.8	N		C36
21P	2018 09 01.93141	05 06 49.78	+46 53 23.9	8.8	N		C36
21P	2018 09 01.93272	05 06 50.26	+46 53 17.1	8.9	N		C36
21P	2018 09 01.93461	05 06 50.50	+46 53 03.3	10.5	N		I81
21P	2018 09 01.93501	05 06 51.10	+46 53 04.9	8.8	N		C36
21P	2018 09 01.93566	05 06 51.34	+46 53 01.3	8.8	N		C36
21P	2018 09 01.93829	05 06 52.11	+46 52 44.0	11.5	R		B96
21P	2018 09 01.94126	05 06 53.18	+46 52 28.7	11.5	R		B96
21P	2018 09 01.94541	05 06 54.72	+46 52 06.3	11.5	R		B96
21P	2018 09 01.95030	05 06 56.58	+46 51 39.7	11.5	R		B96

21P	2018 09 01.95873	05 06 59.62	+46 50 54.3	11.5	R		B96
21P	2018 09 01.96630	05 07 02.39	+46 50 13.8	11.5	R		B96
21P	2018 09 01.97677	05 07 06.17	+46 49 18.3	11.8	R		B96
21P	2018 09 01.99961	05 07 14.82	+46 47 14.3	10.6	N		L12
21P	2018 09 02.00104	05 07 15.32	+46 47 06.5	10.6	N		L12
21P	2018 09 02.00247	05 07 15.86	+46 46 58.9	10.6	N		L12
21P	2018 09 02.01571	05 07 20.73	+46 45 50.9	10.3			104
21P	2018 09 02.01828	05 07 21.22	+46 45 32.3	10.4	N		I81
21P	2018 09 02.02131	05 07 22.73	+46 45 20.7	10.3			104
21P	2018 09 02.02505	05 07 23.66	+46 44 55.7	10.4	N		I81
21P	2018 09 02.05914	05 07 36.15	+46 41 56.0	11.4	N		K97
21P	2018 09 02.06037	05 07 36.58	+46 41 49.3	11.4	N		K97
21P	2018 09 02.06567	05 07 38.49	+46 41 20.8	11.4	N		K97
21P	2018 09 02.10436	05 07 52.51	+46 37 52.7	11.2	N		A77
21P	2018 09 02.10617	05 07 53.10	+46 37 42.9	11.2	N		A77
21P	2018 09 02.10751	05 07 53.61	+46 37 36.2	11.2	N		A77
21P	2018 09 02.10919	05 07 54.22	+46 37 26.6	11.2	N		A77
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21P	2018 09 02.12635	05 08 00.61	+46 35 52.5	10.7	N		J01
21P	2018 09 02.13691	05 08 04.39	+46 34 55.7	10.8	N		J01
21P	2018 09 02.14998	05 08 08.86	+46 33 45.3	10.8	V	K	A77
21P	2018 09 02.15676	05 08 11.22	+46 33 08.6	10.8	V	K	A77
21P	2018 09 02.15817	05 08 11.92	+46 33 01.0	10.8	N		J01
21P	2018 09 02.16470	05 08 13.99	+46 32 25.7	8.7	T	K	A77
21P	2018 09 02.20818	05 08 29.88	+46 28 33.9	11.1	N	9	G40
21P	2018 09 02.20914	05 08 30.23	+46 28 28.1	11.1	N	9	G40
21P	2018 09 02.29828	05 09 02.84	+46 20 11.2	10.9	N		850
21P	2018 09 02.30824	05 09 06.39	+46 19 17.6	10.9	N		850
21P	2018 09 02.31822	05 09 10.00	+46 18 23.5	10.8	N		850
21P	2018 09 02.32819	05 09 13.48	+46 17 29.6	10.9	N		850
21P	2018 09 02.33833	05 09 17.05	+46 16 34.9	10.9	N		850
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21P	2018 09 02.36825	05 09 27.62	+46 13 52.2	10.9	N		850
21P	2018 09 02.37843	05 09 31.21	+46 12 56.9	10.8	N		850
21P	2018 09 02.38365	05 09 32.78	+46 12 46.8	11.4	R		W96
21P	2018 09 02.38840	05 09 34.68	+46 12 02.7	10.8	N		850
21P	2018 09 02.39193	05 09 35.61	+46 12 01.3	9.3	T		W96
21P	2018 09 02.40075	05 09 38.66	+46 11 13.1	11.4	R		W96
21P	2018 09 02.93763	05 12 48.95	+45 21 07.4	11.4	R		B96
21P	2018 09 02.94000	05 12 49.72	+45 20 54.3	11.4	R		B96
21P	2018 09 02.94296	05 12 50.75	+45 20 38.1	11.4	R		B96
21P	2018 09 02.94534	05 12 51.63	+45 20 25.0	12.5	R		B96
21P	2018 09 02.94593	05 12 51.81	+45 20 21.9	11.4	R		B96
21P	2018 09 02.94771	05 12 52.42	+45 20 12.0	11.4	R		B96
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21P	2018 09 02.95995	05 12 56.81	+45 19 04.5	12.7	R		B96
21P	2018 09 02.96712	05 12 59.32	+45 18 24.6	12.7	R		B96
21P	2018 09 02.97472	05 13 01.96	+45 17 42.9	12.8	R		B96
21P	2018 09 02.99563	05 13 09.24	+45 15 47.3	10.2	N		970
21P	2018 09 03.02381	05 13 19.10	+45 13 11.6	10.2	N		970
21P	2018 09 03.05161	05 13 29.24	+45 10 39.1	11.1	N	9	G40
21P	2018 09 03.07267	05 13 36.55	+45 08 43.4	11.1	N	9	G40
21P	2018 09 03.09324	05 13 43.65	+45 06 50.3	11.1	N	9	G40
21P	2018 09 03.11983	05 13 52.16	+45 04 23.4	11.0	N		A77
21P	2018 09 03.12118	05 13 52.66	+45 04 15.9	11.0	N		A77
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21P	2018 09 03.13505	05 13 57.97	+45 03 00.4	11.1	N	9	G40
21P	2018 09 03.38319	05 15 22.78	+44 40 07.2	11.2	N		W96
21P	2018 09 03.39438	05 15 26.49	+44 39 05.1	11.2	N		W96
21P	2018 09 03.970307	05 18 41.71	+43 44 07.0	8.0	T	K	Z80
21P	2018 09 03.972922	05 18 42.63	+43 43 52.1	11.2	N	K	Z80
21P	2018 09 03.975344	05 18 43.46	+43 43 38.5	11.1	N	K	Z80
21P	2018 09 03.977764	05 18 44.24	+43 43 24.6	11.1	N	K	Z80
21P	2018 09 03.980189	05 18 45.09	+43 43 10.9			K	Z80
21P	2018 09 03.982609	05 18 45.90	+43 42 57.5	11.1	N	K	Z80
21P	2018 09 03.985024	05 18 46.65	+43 42 43.8	11.2	N	K	Z80
21P	2018 09 03.987446	05 18 47.48	+43 42 29.7	11.2	N	K	Z80
21P	2018 09 03.989862	05 18 48.33	+43 42 16.1	11.1	N	K	Z80
21P	2018 09 03.991921	05 18 49.03	+43 42 04.5	11.1	N	K	Z80
21P	2018 09 04.08525	05 19 20.05	+43 33 19.3	11.2	R		C10
21P	2018 09 04.09217	05 19 22.44	+43 32 40.7	11.6	N		K19
21P	2018 09 04.09294	05 19 22.67	+43 32 36.4	11.6	N		K19
21P	2018 09 04.09369	05 19 22.93	+43 32 32.2	11.7	N		K19
21P	2018 09 04.09444	05 19 23.18	+43 32 27.8	11.7	N		K19
21P	2018 09 04.09520	05 19 23.39	+43 32 23.5	11.5	N		K19
21P	2018 09 04.09595	05 19 23.61	+43 32 19.5	11.6	N		K19
21P	2018 09 04.09654	05 19 23.46	+43 32 14.4	8.9	T		C10
21P	2018 09 04.09670	05 19 23.91	+43 32 15.0	11.7	N		K19
21P	2018 09 04.09745	05 19 24.16	+43 32 10.9	11.6	N		K19
21P	2018 09 04.09820	05 19 24.41	+43 32 06.5	11.7	N		K19
21P	2018 09 04.09896	05 19 24.64	+43 32 02.4	11.7	N		K19
21P	2018 09 04.09971	05 19 24.89	+43 31 58.0	11.6	N		K19
21P	2018 09 04.10046	05 19 25.12	+43 31 53.8	11.7	N		K19
21P	2018 09 04.10121	05 19 25.37	+43 31 49.6	11.7	N		K19
21P	2018 09 04.10197	05 19 25.62	+43 31 45.3	11.6	N		K19
21P	2018 09 04.10272	05 19 25.87	+43 31 41.1	11.7	N		K19
21P	2018 09 04.10347	05 19 26.12	+43 31 36.8	11.7	N		K19
21P	2018 09 04.10422	05 19 26.38	+43 31 32.4	11.7	N		K19
21P	2018 09 04.10498	05 19 26.61	+43 31 28.1	11.7	N		K19
21P	2018 09 04.10573	05 19 26.86	+43 31 24.0	11.6	N		K19
21P	2018 09 04.10648	05 19 27.10	+43 31 19.8	11.6	N		K19
21P	2018 09 04.10723	05 19 27.35	+43 31 15.5	11.7	N		K19
21P	2018 09 04.10798	05 19 27.59	+43 31 11.2	11.6	N		K19
21P	2018 09 04.10874	05 19 27.85	+43 31 06.7	11.7	N		K19
21P	2018 09 04.10945	05 19 28.03	+43 31 02.1	11.2	R		C10
21P	2018 09 04.10949	05 19 28.07	+43 31 02.7	11.7	N		K19
21P	2018 09 04.11325	05 19 29.33	+43 30 41.4	11.6	N		K19
21P	2018 09 04.11400	05 19 29.56	+43 30 37.1	11.6	N		K19
21P	2018 09 04.11476	05 19 29.79	+43 30 32.9	11.6	N		K19
21P	2018 09 04.11551	05 19 30.03	+43 30 28.7	11.7	N		K19

21P	2018 09 04.11626	05 19 30.28	+43 30 24.4	11.7	N	K19		21P	2018 09 05.965774	05 29 20.67	+40 30 37.3	10.6	N	Z92		
21P	2018 09 04.11701	05 19 30.53	+43 30 20.2	11.6	N	K19		21P	2018 09 05.973113	05 29 22.97	+40 29 54.2	8.1	T	K	Z80	
21P	2018 09 04.11776	05 19 30.77	+43 30 15.8	11.7	N	K19		21P	2018 09 05.974566	05 29 23.45	+40 29 45.9	11.2	N	K	Z80	
21P	2018 09 04.11852	05 19 31.02	+43 30 11.6	11.7	N	K19		21P	2018 09 05.976015	05 29 23.91	+40 29 37.5	11.2	N	K	Z80	
21P	2018 09 04.11927	05 19 31.27	+43 30 07.2	11.7	N	K19		21P	2018 09 05.976369	05 29 23.95	+40 29 35.2	10.4	N		Z92	
21P	2018 09 04.12002	05 19 31.52	+43 30 03.0	11.6	N	K19		21P	2018 09 05.977465	05 29 24.38	+40 29 29.2	11.3	N	K	Z80	
21P	2018 09 04.12077	05 19 31.76	+43 29 58.7	11.7	N	K19		21P	2018 09 05.978918	05 29 24.81	+40 29 20.6	11.2	N	K	Z80	
21P	2018 09 04.12153	05 19 32.00	+43 29 54.5	11.7	N	K19		21P	2018 09 05.980367	05 29 25.25	+40 29 11.9	11.2	N	K	Z80	
21P	2018 09 04.12228	05 19 32.25	+43 29 50.4	11.6	N	K19		21P	2018 09 05.981817	05 29 25.68	+40 29 03.6	11.3	N	K	Z80	
21P	2018 09 04.12303	05 19 32.49	+43 29 45.9	11.6	N	K19		21P	2018 09 05.983268	05 29 26.15	+40 28 55.1	11.3	N	K	Z80	
21P	2018 09 04.12378	05 19 32.73	+43 29 41.7	11.7	N	K19		21P	2018 09 05.984718	05 29 26.58	+40 28 46.2	11.2	N	K	Z80	
21P	2018 09 04.12454	05 19 32.97	+43 29 37.4	11.6	N	K19		21P	2018 09 05.986175	05 29 27.03	+40 28 37.9	11.3	N	K	Z80	
21P	2018 09 04.12529	05 19 33.24	+43 29 33.1	11.6	N	K19		21P	2018 09 05.986714	05 29 27.14	+40 28 34.4	10.7	N		Z92	
21P	2018 09 04.12804	05 19 33.94	+43 29 19.2	11.8	R	B53		21P	2018 09 05.997019	05 29 30.33	+40 27 33.9	10.7	N		Z92	
21P	2018 09 04.12894	05 19 34.25	+43 29 13.9	11.8	R	B53		21P	2018 09 06.01668	05 29 36.28	+40 25 37.5	10.1	N		I81	
21P	2018 09 04.12983	05 19 34.55	+43 29 09.2	11.8	R	B53		21P	2018 09 06.02139	05 29 37.71	+40 25 09.9	9.9	N		I81	
21P	2018 09 04.13072	05 19 34.86	+43 29 03.8	11.8	R	B53		21P	2018 09 06.02209	05 29 37.90	+40 25 05.4	10.5	N		I81	
21P	2018 09 04.13676	05 19 37.15	+43 28 28.1	11.8	R	K	A77	21P	2018 09 06.02510	05 29 38.80	+40 24 47.9	10.5	N		I81	
21P	2018 09 04.14884	05 19 41.42	+43 27 20.8	11.2	N	9	G40	21P	2018 09 06.04212	05 29 44.14	+40 23 11.5	7.4	G		K74	
21P	2018 09 04.14952	05 19 41.25	+43 27 14.4	11.7	R	K	A77	21P	2018 09 06.04432	05 29 44.82	+40 22 58.8	7.5	G		K74	
21P	2018 09 04.16035	05 19 44.80	+43 26 12.7	8.9	T	K	A77	21P	2018 09 06.04689	05 29 45.57	+40 22 43.8	7.5	G		K74	
21P	2018 09 04.17991	05 19 51.56	+43 24 25.1	11.2	N	9	G40	21P	2018 09 06.09310	05 29 59.68	+40 18 14.1	12.0	N	K	160	
21P	2018 09 04.21449	05 20 02.74	+43 21 09.0	11.0	N	2	G40	21P	2018 09 06.09725	05 30 00.92	+40 17 49.7	12.0	N	K	160	
21P	2018 09 04.21544	05 20 03.05	+43 21 03.6	11.0	N	2	G40	21P	2018 09 06.10157	05 30 02.19	+40 17 23.9	11.9	N	K	160	
21P	2018 09 04.21645	05 20 03.36	+43 20 57.9	11.0	N	2	G40	21P	2018 09 06.41306	05 31 36.09	+39 46 56.1	11.4	N		3W88	
21P	2018 09 04.21791	05 20 03.83	+43 20 49.6	11.0	N	2	G40	21P	2018 09 06.41447	05 31 36.50	+39 46 47.3				3W88	
21P	2018 09 04.21885	05 20 04.14	+43 20 44.2	11.0	N	2	G40	21P	2018 09 06.41499	05 31 36.66	+39 46 44.0				3W88	
21P	2018 09 04.21986	05 20 04.44	+43 20 38.5	11.0	N	2	G40	21P	2018 09 07.09035	05 34 58.04	+38 38 47.3	10.8	N		J01	
21P	2018 09 04.23242	05 20 08.47	+43 19 27.3	11.1	N	9	G40	21P	2018 09 07.09395	05 34 59.08	+38 38 26.2	10.9	N		J01	
21P	2018 09 04.99410	05 24 16.27	+42 05 45.3	10.4	N		I81	21P	2018 09 07.09926	05 35 00.59	+38 37 54.5	10.9	N		J01	
21P	2018 09 04.99711	05 24 17.19	+42 05 28.3	10.5	N		I81	21P	2018 09 07.13863	05 35 11.78	+38 33 59.7	11.6	R	K	A77	
21P	2018 09 05.00088	05 24 18.39	+42 05 06.7	10.5	N		I81	21P	2018 09 07.14521	05 35 13.63	+38 33 20.2	11.6	R	K	A77	
21P	2018 09 05.04537	05 24 32.87	+42 00 53.0	11.6	N		K97	21P	2018 09 07.15316	05 35 15.91	+38 32 31.8	9.0	T	K	A77	
21P	2018 09 05.04680	05 24 33.32	+42 00 44.7	11.5	N		K97	21P	2018 09 07.39793	05 36 26.80	+38 08 17.8	11.1	N		W96	
21P	2018 09 05.05361	05 24 35.48	+42 00 05.4	11.6	N		K97	21P	2018 09 07.40133	05 36 27.77	+38 07 57.9	9.2	T		W96	
21P	2018 09 05.05504	05 24 36.00	+41 59 56.9	11.6	N		K97	21P	2018 09 07.40580	05 36 29.00	+38 07 30.7	11.1	N		W96	
21P	2018 09 05.13726	05 25 01.75	+41 52 02.8	11.1	N		A77	21P	2018 09 08.10792	05 39 49.48	+36 55 58.5	10.5	N		L12	
21P	2018 09 05.13860	05 25 02.20	+41 51 55.0	11.0	N		A77	21P	2018 09 08.10934	05 39 49.89	+36 55 49.7	10.6	N		L12	
21P	2018 09 05.14028	05 25 02.70	+41 51 45.3	11.1	N		A77	21P	2018 09 08.11079	05 39 50.34	+36 55 41.1	10.5	N		L12	
21P	2018 09 05.14111	05 25 02.92	+41 51 35.1	10.4	N		I81	21P	2018 09 08.12284	05 39 53.56	+36 54 30.0	11.2	N		A77	
21P	2018 09 05.14196	05 25 03.22	+41 51 35.7	11.1	N		A77	21P	2018 09 08.12478	05 39 54.03	+36 54 18.4	11.2	N		A77	
21P	2018 09 05.14363	05 25 03.71	+41 51 26.1	11.0	N		A77	21P	2018 09 08.13937	05 39 58.08	+36 52 50.1	11.2	N		A77	
21P	2018 09 05.14487	05 25 04.07	+41 51 13.1	10.4	N		I81	21P	2018 09 08.14105	05 39 58.52	+36 52 40.2	11.3	N		A77	
21P	2018 09 05.14693	05 25 04.94	+41 51 05.7	11.5	R	K	A77	21P	2018 09 08.14273	05 39 58.95	+36 52 29.8	11.3	N		A77	
21P	2018 09 05.14789	05 25 05.03	+41 50 55.5	10.4	N		I81	21P	2018 09 08.14441	05 39 59.40	+36 52 19.6	11.3	N		A77	
21P	2018 09 05.15016	05 25 05.74	+41 50 48.0	11.1	N		A77	21P	2018 09 08.15520	05 40 02.56	+36 51 14.1	10.9	R	K	A77	
21P	2018 09 05.15150	05 25 06.19	+41 50 40.1	11.1	N		A77	21P	2018 09 08.16037	05 40 03.97	+36 50 42.9	11.0	R	K	A77	
21P	2018 09 05.16722	05 25 11.17	+41 49 08.0	9.1	T	K	A77	21P	2018 09 08.16641	05 40 05.60	+36 50 06.1	8.9	T	K	A77	
21P	2018 09 05.35404	05 26 10.54	+41 31 16.0	11.4	N		W96	21P	2018 09 08.18762	05 40 11.88	+36 48 01.2	10.7	N	2	G40	
21P	2018 09 05.37033	05 26 15.60	+41 29 41.1	11.4	N		W96	21P	2018 09 08.18866	05 40 12.17	+36 47 54.8	10.7	N	2	G40	
21P	2018 09 05.76388	05 28 18.53	+40 50 47.2	7.4	T		349	21P	2018 09 08.19111	05 40 12.83	+36 47 40.1	10.8	N	2	G40	
21P	2018 09 05.76556	05 28 19.02	+40 50 37.3				349	21P	2018 09 08.19211	05 40 13.10	+36 47 34.0	10.7	N	2	G40	
21P	2018 09 05.76723	05 28 19.56	+40 50 27.1				349	21P	2018 09 08.20922	05 40 17.75	+36 45 49.7	11.1	N		J22	

21P	2018 09 08.21037	05 40 18.05	+36 45 43.3	11.1	N	J22
21P	2018 09 08.21130	05 40 18.36	+36 45 37.4	11.1	N	J22
21P	2018 09 08.34250	05 40 55.05	+36 32 31.1	11.2	N	W96
21P	2018 09 08.36462	05 41 01.08	+36 30 17.4	11.2	N	W96
21P	2018 09 08.95268	05 43 42.20	+35 29 35.0	10.6	N	I81
21P	2018 09 08.95431	05 43 43.09	+35 29 29.2	13.0	N	108
21P	2018 09 08.98748	05 43 52.10	+35 26 06.8	11.5	N	108
21P	2018 09 08.99027	05 43 52.83	+35 25 50.0	12.6	N	K 160
21P	2018 09 08.99089	05 43 53.06	+35 25 45.9	13.1	N	108
21P	2018 09 08.99298	05 43 53.56	+35 25 33.4	12.5	N	K 160
21P	2018 09 08.99332	05 43 53.28	+35 25 26.8	10.6	N	I81
21P	2018 09 08.99473	05 43 54.05	+35 25 22.3	12.8	N	108
21P	2018 09 08.99569	05 43 54.34	+35 25 16.9	12.5	N	K 160
21P	2018 09 09.00057	05 43 55.31	+35 24 42.2	10.6	N	I81
21P	2018 09 09.01557	05 43 59.55	+35 23 15.0	11.6	G	C47
21P	2018 09 09.01963	05 44 00.58	+35 22 50.3	12.1	G	C47
21P	2018 09 09.02406	05 44 01.80	+35 22 23.3	12.2	G	C47
21P	2018 09 09.02848	05 44 03.00	+35 21 56.0	12.2	G	C47
21P	2018 09 09.03291	05 44 04.19	+35 21 29.1	11.4	G	C47
21P	2018 09 09.03734	05 44 05.36	+35 21 02.3	12.2	G	C47
21P	2018 09 09.04505	05 44 07.48	+35 20 13.9	11.7	N	K97
21P	2018 09 09.04835	05 44 08.36	+35 19 53.9	11.7	N	K97
21P	2018 09 09.05238	05 44 09.44	+35 19 29.2	11.7	N	K97
21P	2018 09 09.05473	05 44 10.08	+35 19 14.9	11.7	N	K97
21P	2018 09 09.08904	05 44 19.32	+35 15 44.7	11.3	R	C10
21P	2018 09 09.10704	05 44 24.11	+35 13 54.6	11.3	R	C10
21P	2018 09 09.11757	05 44 26.79	+35 12 53.7	11.6	R	B53
21P	2018 09 09.11838	05 44 27.08	+35 12 48.1	11.7	R	B53
21P	2018 09 09.11920	05 44 27.38	+35 12 43.5	10.8	R	B53
21P	2018 09 09.12001	05 44 27.46	+35 12 38.4	11.7	R	B53
21P	2018 09 09.12083	05 44 27.70	+35 12 32.7	11.6	R	B53
21P	2018 09 09.12123	05 44 27.88	+35 12 29.1	11.2	N	A77
21P	2018 09 09.12164	05 44 27.90	+35 12 28.5	11.7	R	B53
21P	2018 09 09.12247	05 44 28.13	+35 12 23.5	11.2	R	B53
21P	2018 09 09.12286	05 44 28.31	+35 12 19.2	11.2	N	A77
21P	2018 09 09.12328	05 44 28.37	+35 12 18.3	11.7	R	B53
21P	2018 09 09.12410	05 44 28.59	+35 12 13.5	11.0	R	B53
21P	2018 09 09.12416	05 44 28.65	+35 12 11.1	11.2	N	A77
21P	2018 09 09.12491	05 44 28.77	+35 12 08.3	11.2	R	B53
21P	2018 09 09.12573	05 44 29.18	+35 12 02.9	10.9	R	B53
21P	2018 09 09.12654	05 44 29.20	+35 11 58.6	11.2	R	B53
21P	2018 09 09.12887	05 44 29.88	+35 11 42.4	11.2	N	A77
21P	2018 09 09.12963	05 44 29.77	+35 11 36.8	9.0	T	C10
21P	2018 09 09.13115	05 44 30.48	+35 11 28.9	11.2	N	A77
21P	2018 09 09.13500	05 44 31.38	+35 11 04.3	11.1	R	215
21P	2018 09 09.13627	05 44 31.77	+35 10 56.6	11.1	R	215
21P	2018 09 09.13769	05 44 32.08	+35 10 47.8	11.1	R	215
21P	2018 09 09.13909	05 44 32.43	+35 10 39.5	11.1	R	215
21P	2018 09 09.14050	05 44 32.81	+35 10 30.8	11.1	R	215
21P	2018 09 09.14756	05 44 34.89	+35 09 47.3	11.2	R	K A77
21P	2018 09 09.14760	05 44 34.82	+35 09 46.4	11.2	R	C10
21P	2018 09 09.16249	05 44 38.85	+35 08 16.3	9.0	T	K A77
21P	2018 09 09.17235	05 44 41.32	+35 07 14.7	11.2	R	C10
21P	2018 09 09.17703	05 44 42.40	+35 06 48.4	12.5	N	K 160
21P	2018 09 10.06171	05 48 36.52	+33 35 30.6	11.2	R	C10
21P	2018 09 10.07940	05 48 41.08	+33 33 41.9	11.2	R	C10
21P	2018 09 10.10163	05 48 46.41	+33 31 25.5	9.0	T	C10
21P	2018 09 10.14701	05 48 58.33	+33 26 46.2	11.7	R	A77
21P	2018 09 10.15025	05 48 59.34	+33 26 25.8	10.9	N	J01
21P	2018 09 10.15735	05 49 01.15	+33 25 42.1	10.9	N	J01
21P	2018 09 10.15856	05 49 01.08	+33 25 36.2	12.2	N	K 160
21P	2018 09 10.15968	05 49 01.57	+33 25 27.7	11.7	R	A77
21P	2018 09 10.16136	05 49 01.78	+33 25 18.9	12.2	N	K 160
21P	2018 09 10.16155	05 49 02.03	+33 25 15.9	11.7	R	A77
21P	2018 09 10.16351	05 49 02.71	+33 25 04.2	10.9	N	J01
21P	2018 09 10.16416	05 49 02.48	+33 25 01.4	12.2	N	K 160
21P	2018 09 10.16859	05 49 03.79	+33 24 32.8	9.2	T	A77
21P	2018 09 10.16947	05 49 04.19	+33 24 27.6	11.1	N	I72
21P	2018 09 10.17674	05 49 05.97	+33 23 43.6	11.1	N	I72
21P	2018 09 10.18403	05 49 07.80	+33 22 58.6	11.1	N	I72
21P	2018 09 10.41015	05 50 06.34	+32 59 34.6	9.0	R	d H06
21P	2018 09 10.41213	05 50 06.87	+32 59 22.2	9.1	R	d H06
21P	2018 09 10.41260	05 50 06.96	+32 59 19.3	9.1	R	d H06
21P	2018 09 10.41307	05 50 07.10	+32 59 16.4	9.0	R	d H06
21P	2018 09 10.41354	05 50 07.20	+32 59 13.5	8.9	R	d H06
21P	2018 09 10.41400	05 50 07.34	+32 59 10.7	9.2	R	d H06
21P	2018 09 10.41447	05 50 07.42	+32 59 07.9	9.0	R	d H06
21P	2018 09 10.41470	05 50 07.51	+32 59 06.4	8.7	N	d H06
21P	2018 09 10.97433	05 52 28.63	+32 00 50.6	11.6	N	238
21P	2018 09 10.97905	05 52 29.96	+32 00 21.7	11.6	N	238
21P	2018 09 10.99969	05 52 34.95	+31 58 11.7	10.4	N	I81
21P	2018 09 11.00158	05 52 35.38	+31 58 00.2	10.6	N	I81
21P	2018 09 11.00261	05 52 35.87	+31 57 55.6	11.3	N	C23
21P	2018 09 11.00308	05 52 35.78	+31 57 50.7	10.4	N	I81
21P	2018 09 11.003171	05 52 36.03	+31 57 51.6	8.3	T	Z80
21P	2018 09 11.004144	05 52 36.27	+31 57 45.8	11.3	N	Z80
21P	2018 09 11.004387	05 52 36.32	+31 57 44.3	11.3	N	Z80
21P	2018 09 11.005347	05 52 36.55	+31 57 37.9	11.2	N	Z80
21P	2018 09 11.006562	05 52 36.88	+31 57 30.5	11.3	N	Z80
21P	2018 09 11.006806	05 52 36.93	+31 57 29.4	11.3	N	Z80
21P	2018 09 11.008009	05 52 37.23	+31 57 21.4	11.3	N	Z80
21P	2018 09 11.00939	05 52 37.73	+31 57 15.7	11.1	N	213
21P	2018 09 11.01084	05 52 38.05	+31 57 06.2	12.6	N	213
21P	2018 09 11.01481	05 52 38.90	+31 56 40.4	11.3	N	C23
21P	2018 09 11.02343	05 52 41.06	+31 55 47.0	11.2	N	C23
21P	2018 09 11.03563	05 52 44.27	+31 54 33.2	11.2	N	213
21P	2018 09 11.04054	05 52 45.44	+31 54 00.8	10.6	N	L12
21P	2018 09 11.04198	05 52 45.78	+31 53 52.1	10.6	N	L12
21P	2018 09 11.04341	05 52 46.21	+31 53 42.8	10.7	N	L12
21P	2018 09 11.08891	05 52 57.27	+31 49 02.8	12.4	V	K40
21P	2018 09 11.09747	05 52 59.33	+31 48 10.5	12.7	V	K40
21P	2018 09 11.12104	05 53 05.15	+31 45 44.3	11.2	N	A77
21P	2018 09 11.12243	05 53 05.50	+31 45 35.4	11.2	N	A77
21P	2018 09 11.12405	05 53 05.91	+31 45 25.6	11.2	N	A77
21P	2018 09 11.12539	05 53 06.14	+31 45 16.4	11.6	N	K97
21P	2018 09 11.12567	05 53 06.31	+31 45 15.3	11.2	N	A77

21P	2018 09 11.12697	05 53 06.58	+31 45 07.6	11.2	N	A77		21P	2018 09 14.39608	06 05 49.02	+26 04 54.8			3W88	
21P	2018 09 11.12754	05 53 06.66	+31 45 03.1	11.6	N	K97		21P	2018 09 14.39741	06 05 49.35	+26 04 45.3	11.6	N	W96	
21P	2018 09 11.12794	05 53 06.88	+31 45 01.5	11.2	N	A77		21P	2018 09 14.39855	06 05 49.51	+26 04 40.0	12.1	N	3W88	
21P	2018 09 11.12924	05 53 07.17	+31 44 53.8	11.2	N	A77		21P	2018 09 14.42677	06 05 56.23	+26 01 20.2	13.0	V	Q	H06
21P	2018 09 11.13113	05 53 07.54	+31 44 40.8	11.6	N	K97		21P	2018 09 14.43801	06 05 58.64	+26 00 10.6	12.9	V	Q	H06
21P	2018 09 11.17836	05 53 18.90	+31 39 49.6	12.7	N	K 160		21P	2018 09 14.44921	06 06 01.01	+25 59 00.7	12.9	V	Q	H06
21P	2018 09 11.17921	05 53 19.11	+31 39 44.3	12.7	N	K 160		21P	2018 09 14.98822	06 07 57.68	+25 02 48.8	9.7	N	A98	
21P	2018 09 11.18006	05 53 19.36	+31 39 38.9	12.7	N	K 160		21P	2018 09 14.98928	06 07 57.91	+25 02 42.0	9.8	N	A98	
21P	2018 09 11.99948	05 56 39.76	+30 14 07.8	10.5	N	I81		21P	2018 09 14.99090	06 07 58.29	+25 02 32.2	9.4	N	A98	
21P	2018 09 12.00361	05 56 40.75	+30 13 43.2	10.6	N	I81		21P	2018 09 14.99198	06 07 58.48	+25 02 25.4	9.8	N	A98	
21P	2018 09 12.00737	05 56 41.62	+30 13 19.3	10.6	N	I81		21P	2018 09 14.99306	06 07 58.70	+25 02 18.6	9.7	N	A98	
21P	2018 09 12.08749	05 57 00.79	+30 05 01.4	10.6	N	I81		21P	2018 09 14.99412	06 07 58.93	+25 02 12.1	9.7	N	A98	
21P	2018 09 12.09126	05 57 01.66	+30 04 37.8	10.7	N	I81		21P	2018 09 14.99574	06 07 59.28	+25 02 02.1	9.6	N	A98	
21P	2018 09 12.09427	05 57 02.35	+30 04 19.4	10.7	N	I81		21P	2018 09 14.99682	06 07 59.53	+25 01 55.6	9.6	N	A98	
21P	2018 09 12.12571	05 57 09.83	+30 01 06.8	10.6	G	K74		21P	2018 09 15.10302	06 08 22.05	+24 50 54.4	10.7	N	I81	
21P	2018 09 12.12616	05 57 10.00	+30 01 05.6	11.4	N	A77		21P	2018 09 15.10679	06 08 22.88	+24 50 30.9	10.7	N	I81	
21P	2018 09 12.12782	05 57 10.30	+30 00 54.5	10.6	G	K74		21P	2018 09 15.10980	06 08 23.50	+24 50 12.2	10.7	N	I81	
21P	2018 09 12.12823	05 57 10.50	+30 00 52.6	11.3	N	A77		21P	2018 09 15.15186	06 08 32.58	+24 45 55.8	11.1	N	J01	
21P	2018 09 12.13010	05 57 10.94	+30 00 41.0	11.3	N	A77		21P	2018 09 15.15542	06 08 33.33	+24 45 34.0	11.1	N	J01	
21P	2018 09 12.13178	05 57 11.35	+30 00 30.2	11.4	N	A77		21P	2018 09 15.15990	06 08 34.29	+24 45 06.2	11.1	N	J01	
21P	2018 09 12.13380	05 57 11.81	+30 00 18.1	11.3	N	A77		21P	2018 09 15.36950	06 09 18.65	+24 23 46.3	11.7	N	W96	
21P	2018 09 12.13402	05 57 11.73	+30 00 15.4	10.6	G	K74		21P	2018 09 15.37875	06 09 20.54	+24 22 49.0	11.7	N	W96	
21P	2018 09 12.16939	05 57 20.17	+29 56 35.4	11.4	R	C10		21P	2018 09 15.38892	06 09 22.52	+24 21 48.5	12.1	N	3W88	
21P	2018 09 12.17227	05 57 20.48	+29 56 18.7	9.1	T	C10		21P	2018 09 15.39987	06 09 24.73	+24 20 40.6	12.2	N	3W88	
21P	2018 09 12.17563	05 57 21.60	+29 55 56.7	11.4	R	C10		21P	2018 09 15.417465	06 09 28.84	+24 18 28.8	11.0	R	K	H47
21P	2018 09 12.19707	05 57 27.16	+29 53 48.2	11.0	N	2 G40		21P	2018 09 15.419479	06 09 29.22	+24 18 15.6	11.0	R	K	H47
21P	2018 09 12.19802	05 57 27.37	+29 53 42.6	11.0	N	2 G40		21P	2018 09 15.421493	06 09 29.61	+24 18 03.9	11.0	R	K	H47
21P	2018 09 12.19902	05 57 27.60	+29 53 36.2	11.0	N	2 G40		21P	2018 09 16.04739	06 11 39.94	+23 13 10.4	11.9	N	238	
21P	2018 09 12.20053	05 57 27.94	+29 53 26.9	11.0	N	2 G40		21P	2018 09 16.05364	06 11 41.23	+23 12 30.6	11.9	N	238	
21P	2018 09 12.20147	05 57 28.15	+29 53 20.6			2 G40		21P	2018 09 16.06133	06 11 42.81	+23 11 41.5	11.9	N	238	
21P	2018 09 12.20249	05 57 28.39	+29 53 14.5	11.0	N	2 G40		21P	2018 09 16.09159	06 11 49.31	+23 08 38.3	11.5	R	C10	
21P	2018 09 13.09943	06 00 57.94	+28 19 33.3	12.1	N	238		21P	2018 09 16.11053	06 11 52.71	+23 06 43.4	9.2	T	C10	
21P	2018 09 13.10192	06 00 58.53	+28 19 16.3	12.0	N	238		21P	2018 09 16.12550	06 11 56.14	+23 05 09.3	11.6	R	C10	
21P	2018 09 13.10515	06 00 59.29	+28 18 54.2	11.9	N	238		21P	2018 09 16.13235	06 11 57.57	+23 04 26.4	11.2	N	L12	
21P	2018 09 13.16846	06 01 13.84	+28 12 21.7	12.2	G	K	J95	21P	2018 09 16.13378	06 11 57.83	+23 04 17.4	11.2	N	L12	
21P	2018 09 13.16979	06 01 14.18	+28 12 13.5	12.4	G	K	J95	21P	2018 09 16.13521	06 11 58.13	+23 04 08.7	11.2	N	L12	
21P	2018 09 13.17110	06 01 14.45	+28 12 05.5	12.3	G	K	J95	21P	2018 09 16.16866	06 12 05.02	+23 00 43.8	11.3	N	J01	
21P	2018 09 14.04302	06 04 31.61	+26 41 08.2	11.5	N	L12		21P	2018 09 16.17378	06 12 05.98	+23 00 12.8	11.3	N	J01	
21P	2018 09 14.04444	06 04 32.06	+26 40 59.4	10.9	N	L12		21P	2018 09 16.18244	06 12 07.75	+22 59 19.2	11.3	N	J01	
21P	2018 09 14.04588	06 04 32.38	+26 40 50.6	10.8	N	L12		21P	2018 09 16.21463	06 12 14.39	+22 56 05.7	11.7	N	9	G40
21P	2018 09 14.07960	06 04 39.66	+26 37 21.1	11.4	N	C23		21P	2018 09 16.22138	06 12 15.77	+22 55 23.7	11.8	N	9	G40
21P	2018 09 14.09167	06 04 42.30	+26 36 06.1	11.4	N	C23		21P	2018 09 16.22836	06 12 17.11	+22 54 40.9	11.8	N	9	G40
21P	2018 09 14.10145	06 04 44.42	+26 35 05.4	11.4	N	C23		21P	2018 09 17.12536	06 15 17.80	+21 22 22.8	11.6	N	A77	
21P	2018 09 14.12672	06 04 50.00	+26 32 30.3	11.3	N	A77		21P	2018 09 17.12709	06 15 18.14	+21 22 12.3	11.6	N	A77	
21P	2018 09 14.12822	06 04 50.37	+26 32 20.9	11.3	N	A77		21P	2018 09 17.12906	06 15 18.53	+21 21 59.8	11.6	N	A77	
21P	2018 09 14.14302	06 04 53.56	+26 30 48.9	11.2	N	A77		21P	2018 09 17.13103	06 15 18.93	+21 21 48.0	11.6	N	A77	
21P	2018 09 14.14469	06 04 53.90	+26 30 38.2	11.2	N	A77		21P	2018 09 17.13300	06 15 19.30	+21 21 36.1	11.6	N	A77	
21P	2018 09 14.16626	06 04 59.31	+26 28 23.1	11.2	R	A77		21P	2018 09 17.434850	06 16 18.72	+20 50 48.6	11.1	R	H47	
21P	2018 09 14.17004	06 04 59.66	+26 28 00.1	11.1	R	A77		21P	2018 09 17.436597	06 16 19.05	+20 50 37.9	11.1	R	H47	
21P	2018 09 14.17431	06 05 01.10	+26 27 31.0	11.3	R	A77		21P	2018 09 17.438681	06 16 19.42	+20 50 25.4	11.1	R	H47	
21P	2018 09 14.37425	06 05 44.41	+26 07 11.0	12.0	N	3W88		21P	2018 09 17.440764	06 16 19.85	+20 50 12.4	11.1	R	H47	
21P	2018 09 14.39205	06 05 48.21	+26 05 19.1	11.4	N	W96		21P	2018 09 18.07414	06 18 22.66	+19 45 35.6	11.8	N	K97	
21P	2018 09 14.39487	06 05 48.81	+26 05 00.9	9.5	T	W96		21P	2018 09 18.07795	06 18 23.38	+19 45 12.4	11.8	N	K97	

21P	2018 09 18.08205	06 18 24.16	+19 44 47.4	11.7	N	K97
21P	2018 09 18.08378	06 18 24.48	+19 44 37.4	11.8	N	K97
21P	2018 09 18.10792	06 18 29.08	+19 42 11.8	11.4	N	A77
21P	2018 09 18.10950	06 18 29.39	+19 42 02.0	11.5	N	A77
21P	2018 09 18.11147	06 18 29.77	+19 41 49.8	11.4	N	A77
21P	2018 09 18.11279	06 18 29.56	+19 41 43.2	9.3	T	C10
21P	2018 09 18.11383	06 18 30.20	+19 41 35.8	11.4	N	A77
21P	2018 09 18.11580	06 18 30.57	+19 41 23.8	11.4	N	A77
21P	2018 09 18.11993	06 18 31.30	+19 40 57.5	11.5	R	C10
21P	2018 09 18.12093	06 18 31.41	+19 40 51.8	11.7	G	K74
21P	2018 09 18.12719	06 18 32.58	+19 40 13.5	11.7	G	K74
21P	2018 09 18.12738	06 18 32.72	+19 40 12.4	11.5	R	C10
21P	2018 09 18.13345	06 18 33.75	+19 39 35.5	11.8	G	K74
21P	2018 09 18.13971	06 18 34.92	+19 38 57.3	11.8	G	K74
21P	2018 09 18.14067	06 18 35.23	+19 38 52.3	11.8	R	A77
21P	2018 09 18.14596	06 18 36.08	+19 38 19.5	11.7	G	K74
21P	2018 09 18.14635	06 18 36.29	+19 38 17.9	11.9	R	A77
21P	2018 09 18.15297	06 18 37.58	+19 37 38.1	9.2	T	A77
21P	2018 09 19.04925	06 21 26.07	+18 07 05.8	11.9	N	238
21P	2018 09 19.05407	06 21 26.86	+18 06 36.9	12.0	N	238
21P	2018 09 19.06031	06 21 27.90	+18 05 59.6	12.2	N	238
21P	2018 09 19.07906	06 21 31.61	+18 04 05.5	11.0	N	I81
21P	2018 09 19.08283	06 21 32.26	+18 03 43.2	11.0	N	I81
21P	2018 09 19.08585	06 21 32.86	+18 03 25.4	11.0	N	I81
21P	2018 09 19.12136	06 21 39.49	+17 59 55.6	11.8	R	A77
21P	2018 09 19.13504	06 21 41.96	+17 58 33.6	9.3	T	A77
21P	2018 09 19.14946	06 21 44.55	+17 57 06.9	11.8	R	A77
21P	2018 09 19.34078	06 22 19.94	+17 38 20.5	11.9	N	W96
21P	2018 09 19.35173	06 22 21.86	+17 37 15.2	11.9	N	W96
21P	2018 09 20.14001	06 24 44.04	+16 18 21.2	11.0	V	A77
21P	2018 09 20.14030	06 24 43.97	+16 18 20.9	11.5	N	A77
21P	2018 09 20.14189	06 24 44.24	+16 18 11.5	11.5	N	A77
21P	2018 09 20.14385	06 24 44.56	+16 18 00.1	11.5	N	A77
21P	2018 09 20.14582	06 24 44.95	+16 17 48.1	11.5	N	A77
21P	2018 09 20.14641	06 24 45.14	+16 17 43.3	11.0	V	A77
21P	2018 09 20.14779	06 24 45.25	+16 17 36.4	11.5	N	A77
21P	2018 09 20.15393	06 24 46.43	+16 16 58.8	8.9	T	A77

24P/Schaumasse

24P	2018 04 22.68545	16 38 55.92	−13 27 46.2	17.4	T	349
24P	2018 04 22.69571	16 38 55.26	−13 27 48.0			349
24P	2018 05 14.56015	16 13 30.12	−14 04 41.5	18.0	T	K D95
24P	2018 05 14.56442	16 13 29.72	−14 04 41.2			K D95
24P	2018 05 14.56870	16 13 29.37	−14 04 42.8			K D95
24P	2018 06 03.35689	15 50 10.54	−14 44 59.9	19.3	V	691
24P	2018 06 03.36731	15 50 09.86	−14 45 01.3	19.3	V	691
24P	2018 06 03.37771	15 50 09.23	−14 45 03.4	19.5	V	691
24P	2018 06 06.31346	15 47 17.20	−14 51 58.1	16.6	G	703
24P	2018 06 06.31877	15 47 16.89	−14 52 00.3	16.4	G	703
24P	2018 06 06.32408	15 47 16.52	−14 52 00.4			703
24P	2018 06 06.32940	15 47 16.27	−14 52 01.2			703
24P	2018 06 07.28832	15 46 22.91	−14 54 19.2	18.9	V	691
24P	2018 06 07.30178	15 46 22.01	−14 54 21.3	19.2	V	691
24P	2018 06 07.31841	15 46 21.08	−14 54 23.8	19.2	V	691
24P	2018 06 13.59154	15 41 06.24	−15 10 24.3			K Q11
24P	2018 06 13.59688	15 41 05.98	−15 10 25.2	18.6	T	K Q11
24P	2018 06 17.32171	15 38 29.396	−15 20 38.05	20.9	w	F51
24P	2018 06 17.33144	15 38 28.993	−15 20 39.74	20.9	w	F51
24P	2018 06 17.34114	15 38 28.601	−15 20 41.40	20.8	w	F51
24P	2018 06 17.35086	15 38 28.183	−15 20 43.38	21.0	w	F51
24P	2018 06 19.22489	15 37 18.33	−15 26 04.6	18.2	G	G96
24P	2018 06 19.23005	15 37 18.16	−15 26 05.3	17.8	G	G96
24P	2018 06 19.24036	15 37 17.70	−15 26 07.5			G96

29P/Schwassmann-Wachmann

29P	2017 03 08.39861	21 03 55.52	−17 27 47.0	16.2	N	4W88
29P	2017 03 08.40087	21 03 55.63	−17 27 46.2	16.2	N	4W88
29P	2018 05 12.78669	23 07 09.19	−01 28 10.9			1 Q62
29P	2018 05 12.78922	23 07 09.30	−01 28 10.3	13.4	w	1 Q62
29P	2018 05 17.21108	23 09 11.41	−01 09 48.5	16.4	N	J22
29P	2018 05 17.21495	23 09 11.55	−01 09 48.2	16.4	N	J22
29P	2018 05 17.21884	23 09 11.64	−01 09 47.0	16.4	N	J22
29P	2018 05 23.18648	23 11 42.82	−00 46 03.8	16.7	N	J22
29P	2018 05 23.19037	23 11 42.88	−00 46 03.1	16.7	N	J22
29P	2018 05 23.19444	23 11 42.98	−00 46 02.4	16.7	N	J22
29P	2018 05 28.20572	23 13 37.05	−00 27 12.2	16.3	N	J22
29P	2018 05 28.20959	23 13 37.16	−00 27 12.4	16.3	N	J22
29P	2018 05 28.37500	23 13 40.70	−00 26 32.7	16.9	N	KW96
29P	2018 05 28.39497	23 13 41.14	−00 26 28.2	16.9	N	KW96
29P	2018 05 28.42393	23 13 41.73	−00 26 22.0	16.9	N	KW96
29P	2018 05 31.21255	23 14 39.62	−00 16 23.5	16.6	N	J22
29P	2018 05 31.21649	23 14 39.74	−00 16 23.1	16.6	N	J22
29P	2018 06 01.33108	23 15 01.84	−00 12 26.2	17.0	N	KW96
29P	2018 06 01.37775	23 15 02.73	−00 12 16.3	17.0	N	KW96
29P	2018 06 01.42102	23 15 03.55	−00 12 07.1	16.9	N	KW96
29P	2018 06 02.76404	23 15 29.20	−00 07 31.8	14.4	T	349
29P	2018 06 02.77091	23 15 29.30	−00 07 30.1			349
29P	2018 06 07.26220	23 16 48.44	+00 07 24.3	16.6	N	KW96
29P	2018 06 07.30234	23 16 49.10	+00 07 31.8	16.8	N	KW96
29P	2018 06 07.34408	23 16 49.78	+00 07 39.9	16.7	N	KW96
29P	2018 06 12.21298	23 18 02.91	+00 22 39.3	18	R	C51
Geocentric position (km)		+ 6498.4810	+ 1916.9362	+ 1057.3115		
29P	2018 06 12.37076	23 18 05.11	+00 23 07.8	16.9	N	KW96
29P	2018 06 12.39072	23 18 05.36	+00 23 11.5	16.8	N	KW96
29P	2018 06 12.73647	23 18 09.99	+00 24 10.9			C51
Geocentric position (km)		+ 6475.0722	+ 1978.4465	+ 1087.4321		
29P	2018 06 12.86737	23 18 11.74	+00 24 35.1			C51
Geocentric position (km)		+ 6473.0979	+ 1992.1414	+ 1074.3696		
29P	2018 06 12.93282	23 18 12.57	+00 24 45.9			C51
Geocentric position (km)		+ 6472.0858	+ 1998.9872	+ 1067.8473		
29P	2018 06 13.19450	23 18 16.03	+00 25 29.9			C51
Geocentric position (km)		+ 6452.0127	+ 2032.7225	+ 1123.2682		
29P	2018 06 13.32541	23 18 17.74	+00 25 54.4			C51
Geocentric position (km)		+ 6449.9870	+ 2046.4086	+ 1110.2384		
29P	2018 06 13.35343	23 18 18.26	+00 26 00.2	17.0	N	KW96
29P	2018 06 13.39904	23 18 18.75	+00 26 08.2	16.9	N	KW96

29P	2018 06 13.42933	23 18 19.14	+00 26 13.5	16.9	N	KW96
29P	2018 06 13.74463	23 18 23.27	+00 27 06.3	13.8	T	Q11
29P	2018 06 13.74891	23 18 23.32	+00 27 07.1			Q11
29P	2018 06 13.75745	23 18 23.42	+00 27 08.7			Q11
29P	2018 06 16.04350	23 18 51.18	+00 33 34.2	17.5	N	K 160
29P	2018 06 16.04582	23 18 51.24	+00 33 34.9	17.4	N	K 160
29P	2018 06 16.04813	23 18 51.25	+00 33 35.4	17.3	N	K 160
29P	2018 06 16.21035	23 18 53.13	+00 34 03.8	16.9	N	KW96
29P	2018 06 16.28146	23 18 53.93	+00 34 15.6	16.9	N	KW96
29P	2018 06 16.33232	23 18 54.51	+00 34 24.2	16.9	N	KW96
29P	2018 06 17.07496	23 19 02.76	+00 36 23.3	16.9	N	K 160
29P	2018 06 17.07778	23 19 02.77	+00 36 23.8	17.4	N	K 160
29P	2018 06 17.08061	23 19 02.81	+00 36 24.0	17.1	N	K 160
29P	2018 06 17.25169	23 19 04.69	+00 36 53.5	16.9	N	KW96
29P	2018 06 17.29895	23 19 05.21	+00 37 01.6	16.8	N	KW96
29P	2018 06 17.34693	23 19 05.70	+00 37 09.6	17.0	N	KW96
29P	2018 06 18.27010	23 19 15.39	+00 39 36.3	17.0	N	KW96
29P	2018 06 18.30162	23 19 15.69	+00 39 41.6	17.5	R	K I47
29P	2018 06 18.30436	23 19 15.74	+00 39 41.8	16.9	N	KW96
29P	2018 06 18.31969	23 19 15.90	+00 39 44.2	17.5	R	K I47
29P	2018 06 18.34639	23 19 16.13	+00 39 48.4	17.0	N	KW96
29P	2018 06 19.04658	23 19 23.30	+00 41 34.7	14.4	N	K 160
29P	2018 06 19.04923	23 19 23.29	+00 41 34.6	14.4	N	K 160
29P	2018 06 19.05188	23 19 23.30	+00 41 34.4	14.2	N	K 160
29P	2018 06 20.03020	23 19 32.40	+00 44 07.1	16.4		K 215
29P	2018 06 20.03148	23 19 32.41	+00 44 07.4	16.3		K 215
29P	2018 06 20.03277	23 19 32.43	+00 44 07.4	16.4		K 215
29P	2018 06 20.04855	23 19 32.57	+00 44 10.0	16.1	N	C10
29P	2018 06 20.06915	23 19 32.75	+00 44 13.0	16.1	N	C10
29P	2018 06 20.09127	23 19 32.96	+00 44 16.4	16.0	N	C10
29P	2018 06 20.20679	23 19 34.14	+00 44 36.3	16.2	N	W96
29P	2018 06 20.24791	23 19 34.41	+00 44 42.3	16.3	N	W96
29P	2018 06 20.29654	23 19 34.82	+00 44 49.7	16.3	N	W96
29P	2018 06 20.34539	23 19 35.24	+00 44 56.8	16.3	N	W96
29P	2018 06 20.41033	23 19 35.79	+00 45 06.7	16.2	N	W96
29P	2018 06 21.03906	23 19 41.33	+00 46 39.0	16.3	R	C10
29P	2018 06 21.06500	23 19 41.55	+00 46 42.5	16.3	R	C10
29P	2018 06 21.09171	23 19 41.76	+00 46 46.6	16.2	R	C10
29P	2018 06 21.74440	23 19 47.26	+00 48 22.8	14.9	T	Q23
29P	2018 06 21.75317	23 19 47.32	+00 48 24.0			Q23
29P	2018 06 21.76104	23 19 47.39	+00 48 25.5			Q23
29P	2018 06 22.02900	23 19 49.56	+00 49 04.0	16.4	N	C10
29P	2018 06 22.06167	23 19 49.80	+00 49 08.7	16.3	N	C10
29P	2018 06 22.08902	23 19 49.99	+00 49 13.1	16.2	N	C10
29P	2018 06 22.72471	23 19 54.94	+00 50 46.2	16.3	N	Q68
29P	2018 06 22.75633	23 19 55.17	+00 50 50.5	16.4	N	Q68
29P	2018 06 23.59853	23 20 01.34	+00 52 50.1	14.9	N	K E94
29P	2018 06 23.60580	23 20 01.43	+00 52 51.3	15.0	N	K E94
29P	2018 06 23.61372	23 20 01.45	+00 52 52.1	14.9	N	K E94
29P	2018 06 23.62100	23 20 01.54	+00 52 53.4	14.9	N	K E94
29P	2018 06 23.72818	23 20 02.22	+00 53 08.4	15.0	N	K E94
29P	2018 06 23.73567	23 20 02.28	+00 53 09.3	15.1	N	K E94
29P	2018 06 24.15663	23 20 05.25	+00 54 05.5	14.9	N	J22
29P	2018 06 24.16056	23 20 05.25	+00 54 06.2	14.9	N	J22
29P	2018 06 24.20163	23 20 05.57	+00 54 14.0	15.1	N	W96
29P	2018 06 24.23822	23 20 05.83	+00 54 18.9	15.0	N	W96
29P	2018 06 24.28773	23 20 06.10	+00 54 25.3	15.1	N	W96
29P	2018 06 24.32640	23 20 06.36	+00 54 30.6	15.1	N	W96
29P	2018 06 24.36697	23 20 06.60	+00 54 36.2	15.1	N	W96
29P	2018 06 24.42559	23 20 06.96	+00 54 44.2	15.0	N	W96
29P	2018 06 25.31949	23 20 12.64	+00 56 45.4	15.3	N	W96
29P	2018 06 25.36757	23 20 12.88	+00 56 51.7	15.3	N	W96
29P	2018 06 25.42255	23 20 13.22	+00 56 58.8	15.3	N	W96
29P	2018 06 26.02137	23 20 16.75	+00 58 15.6	15.1	N	C23
29P	2018 06 26.02570	23 20 16.80	+00 58 16.3	15.0	N	C23
29P	2018 06 26.03003	23 20 16.79	+00 58 16.9	15.8	N	C23
29P	2018 06 26.34116	23 20 18.51	+00 58 59.9	15.6	N	W96
29P	2018 06 26.36432	23 20 18.63	+00 59 02.9	15.6	N	W96
29P	2018 06 26.39366	23 20 18.78	+00 59 06.9	15.6	N	W96
29P	2018 06 27.06803	23 20 22.24	+01 00 32.2	16.0	N	K 160
29P	2018 06 27.07083	23 20 22.25	+01 00 32.5	15.9	N	K 160
29P	2018 06 27.07364	23 20 22.30	+01 00 31.9	15.0	N	K 160
29P	2018 06 28.12639	23 20 27.22	+01 02 44.9	15.5	N	J22
29P	2018 06 28.12836	23 20 27.25	+01 02 45.1	15.5	N	J22
29P	2018 06 28.13426	23 20 27.27	+01 02 45.9	15.5	N	J22
29P	2018 06 28.20817	23 20 27.64	+01 02 56.9	15.8	N	W96
29P	2018 06 28.24557	23 20 27.71	+01 03 01.5	15.9	N	W96
29P	2018 06 28.26996	23 20 27.82	+01 03 04.4	16.0	N	W96
29P	2018 06 29.03838	23 20 30.85	+01 04 36.4	16.1	R	B96
29P	2018 06 29.04818	23 20 30.91	+01 04 37.4	16.2	R	B96
29P	2018 06 29.05635	23 20 30.94	+01 04 38.6	16.1	R	B96
29P	2018 06 29.54101	23 20 32.75	+01 05 36.1	15.5	o	T05
29P	2018 06 29.54896	23 20 32.78	+01 05 36.8	15.6	o	T05
29P	2018 06 29.55699	23 20 32.80	+01 05 37.9	15.4	o	T05
29P	2018 06 29.56492	23 20 32.85	+01 05 38.6	15.5	o	T05
29P	2018 06 30.00743	23 20 34.27	+01 06 30.4	15.8	N	K C10
29P	2018 06 30.03509	23 20 34.33	+01 06 34.7	16.0	N	C23
29P	2018 06 30.03623	23 20 34.34	+01 06 34.5	16.0	R	B96
29P	2018 06 30.03633	23 20 34.34	+01 06 34.3	16.6	N	K 160
29P	2018 06 30.03898	23 20 34.35	+01 06 34.9	17.1	N	K 160
29P	2018 06 30.03942	23 20 34.46	+01 06 34.1	15.3	N	C23
29P	2018 06 30.04162	23 20 34.35	+01 06 35.7	16.9	N	K 160
29P	2018 06 30.04348	23 20 34.37	+01 06 35.3	16.0	N	K C10
29P	2018 06 30.04440	23 20 34.39	+01 06 34.7	16.0	R	B96
29P	2018 06 30.04519	23 20 34.42	+01 06 35.1	16.0	N	C23
29P	2018 06 30.05420	23 20 34.41	+01 06 36.4	16.2	R	B96
29P	2018 06 30.08029	23 20 34.50	+01 06 39.2	15.8	N	K C10
29P	2018 07 01.01302	23 20 37.14	+01 08 27.0	16.4	N	K 107
29P	2018 07 01.03660	23 20 37.20	+01 08 29.4	16.3	N	K 107
29P	2018 07 01.05157	23 20 37.23	+01 08 31.3	16.4	N	K 107
29P	2018 07 01.05982	23 20 37.28	+01 08 31.4	16.1	N	K C10
29P	2018 07 01.07666	23 20 37.31	+01 08 33.9	16.0	N	K C10
29P	2018 07 01.08160	23 20 37.30	+01 08 34.5	16.9	N	K 160
29P	2018 07 01.08438	23 20 37.29	+01 08 35.2	16.8	N	K 160
29P	2018 07 01.08716	23 20 37.29	+01 08 35.3	16.9	N	K 160
29P	2018 07 01.09426	23 20 37.36	+01 08 36.1	15.9	N	K C10

29P	2018 07 02.02825	23 20 39.43	+01 10 19.8	17.3	N	K 160		
29P	2018 07 02.03103	23 20 39.42	+01 10 20.5	17.1	N	K 160		
29P	2018 07 02.03381	23 20 39.43	+01 10 20.7	16.7	N	K 160		
29P	2018 07 02.38760	23 20 40.02	+01 11 01.0	16.3	N	W96		
29P	2018 07 02.40278	23 20 40.05	+01 11 02.7	16.2	N	W96		
29P	2018 07 04.40857	23 20 42.22	+01 14 31.7	16.3	N	W96		
29P	2018 07 04.42774	23 20 42.24	+01 14 33.7	16.5	N	W96		
29P	2018 07 05.27741	23 20 42.51	+01 15 57.8	16.5	N	KW96		
29P	2018 07 05.30691	23 20 42.52	+01 16 00.7	16.5	N	KW96		
29P	2018 07 07.06209	23 20 41.46	+01 18 43.1	15.9	N	J22		
29P	2018 07 07.06604	23 20 41.45	+01 18 43.4	15.9	N	J22		
29P	2018 07 08.01179	23 20 40.03	+01 20 08.0	16.1	N	C23		
29P	2018 07 08.01468	23 20 40.05	+01 20 06.1	15.7	N	C23		
29P	2018 07 08.01901	23 20 39.95	+01 20 07.5	16.0	N	C23		
29P	2018 07 08.28739	23 20 39.51	+01 20 32.3	16.5	N	W96		
29P	2018 07 08.31055	23 20 39.45	+01 20 34.7	16.5	N	W96		
29P	2018 07 09.04723	23 20 37.83	+01 21 34.6	16.2	R	B96		
29P	2018 07 09.05050	23 20 37.82	+01 21 35.0	16.5	R	B96		
29P	2018 07 10.33097	23 20 34.23	+01 23 19.3	16.1	N	W96		
29P	2018 07 10.35413	23 20 34.14	+01 23 21.2	16.2	N	W96		
29P	2018 07 11.07402	23 20 31.72	+01 24 13.1	15.9	V	K A77		
29P	2018 07 11.08328	23 20 31.67	+01 24 14.0	16.0	V	K A77		
29P	2018 07 12.042957	23 20 27.90	+01 25 22.6	14.3	T	K Z80		
29P	2018 07 12.047188	23 20 27.85	+01 25 23.9	16.4	N	K Z80		
29P	2018 07 12.051418	23 20 27.84	+01 25 24.5	16.2	N	K Z80		
29P	2018 07 12.60427	23 20 25.35	+01 26 06.6	14.7	T	Q38		
29P	2018 07 12.60921	23 20 25.39	+01 26 06.0	17.5	G	Q38		
29P	2018 07 12.61561	23 20 25.32	+01 26 04.7	17.4	G	Q38		
29P	2018 07 13.02372	23 20 23.37	+01 26 31.2	16.6	N	K 160		
29P	2018 07 13.02653	23 20 23.35	+01 26 31.4	16.5	N	K 160		
29P	2018 07 13.02933	23 20 23.34	+01 26 31.6	16.6	N	K 160		
29P	2018 07 13.71619	23 20 19.83	+01 27 16.7	14.2	T	Q11		
29P	2018 07 13.72477	23 20 19.79	+01 27 17.3			Q11		
29P	2018 07 13.73051	23 20 19.75	+01 27 17.6			Q11		
29P	2018 07 14.03940	23 20 18.08	+01 27 36.6	16.2	N	J22		
29P	2018 07 14.04530	23 20 18.14	+01 27 36.4	16.2	N	J22		
29P	2018 07 14.05632	23 20 17.97	+01 27 38.4	16.3	R	B96		
29P	2018 07 14.06449	23 20 17.91	+01 27 39.1	16.6	R	B96		
29P	2018 07 14.63568	23 20 14.73	+01 28 14.1			K D81		
29P	2018 07 14.63949	23 20 14.70	+01 28 13.8			K D81		
29P	2018 07 14.64330	23 20 14.72	+01 28 14.1			K D81		
29P	2018 07 14.66348	23 20 14.57	+01 28 14.6	14.0	T	K D81		
29P	2018 07 15.01978	23 20 12.41	+01 28 35.8	16.2	N	K K02		
29P	2018 07 15.02487	23 20 12.36	+01 28 36.3	16.2	N	K K02		
29P	2018 07 15.02999	23 20 12.33	+01 28 36.9	16.3	N	K K02		
29P	2018 07 15.03611	23 20 12.30	+01 28 37.4	16.3	N	K C10		
29P	2018 07 15.04201	23 20 12.27	+01 28 37.6	16.2	N	K C10		
29P	2018 07 15.05998	23 20 12.12	+01 28 39.1	16.5	R	B96		
29P	2018 07 15.06815	23 20 12.05	+01 28 39.7	16.7	R	B96		
29P	2018 07 15.16127	23 20 11.51	+01 28 45.0	16.4	N	J22		
29P	2018 07 15.16723	23 20 11.46	+01 28 45.4	16.4	N	J22		
29P	2018 07 15.16919	23 20 11.45	+01 28 46.1	16.4	N	J22		
29P	2018 07 15.97517	23 20 06.30	+01 29 31.1	16.2	N	C23		
29P	2018 07 15.98238	23 20 06.24	+01 29 30.2	16.2	N	C23		
29P	2018 07 15.99104	23 20 06.22	+01 29 30.7	16.4	N	C23		
29P	2018 07 16.96789	23 19 59.33	+01 30 22.9	16.3	N	C10		
29P	2018 07 17.00100	23 19 59.07	+01 30 24.8	16.4	N	C10		
29P	2018 07 17.02933	23 19 58.88	+01 30 26.3	16.3	N	C10		
29P	2018 07 17.09010	23 19 58.43	+01 30 28.9	16.4	N	K L27		
29P	2018 07 17.11046	23 19 58.26	+01 30 30.3	16.4	N	K L27		
29P	2018 07 17.99587	23 19 51.51	+01 31 12.9	15.9	N	C23		
29P	2018 07 18.00165	23 19 51.45	+01 31 13.3	16.3	N	C23		
29P	2018 07 18.00886	23 19 51.34	+01 31 13.3	16.1	N	C23		
29P	2018 07 18.01236	23 19 51.37	+01 31 13.8	16.4	N	K C10		
29P	2018 07 18.05447	23 19 51.02	+01 31 15.8	16.6	N	K C10		
29P	2018 07 18.05890	23 19 50.94	+01 31 16.5	16.8	R	B96		
29P	2018 07 18.06708	23 19 50.86	+01 31 16.6	16.8	R	B96		
29P	2018 07 18.08706	23 19 50.72	+01 31 17.9	16.3	N	J01		
29P	2018 07 18.09465	23 19 50.66	+01 31 18.0	16.3	N	J01		
29P	2018 07 18.10209	23 19 50.56	+01 31 18.6	16.3	N	J01		
29P	2018 07 18.98948	23 19 43.30	+01 31 57.1	16.4	N	C10		
29P	2018 07 19.03943	23 19 42.85	+01 31 59.9	16.7	N	K 160		
29P	2018 07 19.04096	23 19 42.86	+01 31 59.6	16.4	N	C10		
29P	2018 07 19.04227	23 19 42.83	+01 32 00.0	16.7	N	K 160		
29P	2018 07 19.04381	23 19 42.78	+01 32 00.5	16.5	R	B96		
29P	2018 07 19.04511	23 19 42.78	+01 31 59.9	16.9	N	K 160		
29P	2018 07 19.05545	23 19 42.68	+01 32 00.6	16.9	R	B96		
29P	2018 07 19.09422	23 19 42.37	+01 32 01.9	16.5	N	C10		
29P	2018 07 19.66460	23 19 37.39	+01 32 25.6	16.9	V	K Q21		
29P	2018 07 19.67008	23 19 37.33	+01 32 26.0	17.4	V	K Q21		
29P	2018 07 19.67553	23 19 37.30	+01 32 26.7	17.4	V	K Q21		
29P	2018 07 19.68097	23 19 37.24	+01 32 26.4	17.0	V	K Q21		
29P	2018 07 20.01946	23 19 34.19	+01 32 39.5	16.3	N	K 160		
29P	2018 07 20.02104	23 19 34.16	+01 32 39.7	16.5	N	K 160		
29P	2018 07 20.02232	23 19 34.11	+01 32 39.4	17.0	N	K 160		
29P	2018 07 20.06260	23 19 33.76	+01 32 41.0	16.1	N	C23		
29P	2018 07 20.07009	23 19 33.68	+01 32 41.0	16.1	N	C23		
29P	2018 07 20.07683	23 19 33.65	+01 32 41.1	16.1	N	C23		
29P	2018 07 20.08050	23 19 33.61	+01 32 41.6	16.3	N	K L27		
29P	2018 07 20.12025	23 19 33.20	+01 32 43.0	16.5	N	K L27		
29P	2018 07 20.72169	23 19 27.57	+01 33 05.3	14.9	N	G26		
29P	2018 07 20.75041	23 19 27.31	+01 33 06.5			K 367		
29P	2018 07 20.75203	23 19 27.29	+01 33 06.5			K 367		
29P	2018 07 20.75324	23 19 27.27	+01 33 06.7	13.6	T	K 367		
29P	2018 07 20.76304	23 19 27.01	+01 33 08.0	15.0	N	G26		
29P	2018 07 21.74326	23 19 17.47	+01 33 40.0	13.4	T	349		
29P	2018 07 21.75281	23 19 17.36	+01 33 40.2			349		
29P	2018 07 21.98973	23 19 15.04	+01 33 46.7	16.3	N	C23		
29P	2018 07 21.99551	23 19 14.97	+01 33 47.7	16.3	N	C23		
29P	2018 07 22.00272	23 19 14.90	+01 33 47.1	16.0	N	C23		
29P	2018 07 22.02299	23 19 14.72	+01 33 48.4	16.2	N	J22		
29P	2018 07 22.02889	23 19 14.69	+01 33 49.0	16.2	N	J22		
29P	2018 07 22.06534	23 19 14.17	+01 33 49.3	16.6	R	B96		
29P	2018 07 22.07024	23 19 14.11	+01 33 49.6	16.6	R	B96		
29P	2018 07 22.07677	23 19 14.04	+01 33 50.0	16.7	R	B96		
29P	2018 07 22.96928	23 19 04.75	+01 34 14.7	15.9	N	J38		

29P	2018 07 22.97316	23 19 04.54	+01 34 17.1	15.9	N		J38
29P	2018 07 22.97705	23 19 04.62	+01 34 17.1	15.9	N		J38
29P	2018 07 23.04774	23 19 03.75	+01 34 16.8	16.1	N	K	C10
29P	2018 07 23.05561	23 19 03.64	+01 34 17.3	16.2	N	K	C10
29P	2018 07 23.94526	23 18 53.72	+01 34 38.8	16.1	N	K	C10
29P	2018 07 23.99629	23 18 53.12	+01 34 39.9	16.1	N	K	C10
29P	2018 07 24.01477	23 18 52.89	+01 34 40.4	16.2	N	K	K02
29P	2018 07 24.01986	23 18 52.83	+01 34 40.5	16.1	N	K	K02
29P	2018 07 24.02579	23 18 52.75	+01 34 40.6	16.1	N	K	K02
29P	2018 07 24.02984	23 18 52.70	+01 34 40.8	16.9	N	K	160
29P	2018 07 24.029916	23 18 52.73	+01 34 40.1	13.9	T	K	Z80
29P	2018 07 24.032344	23 18 52.69	+01 34 40.7	16.8	N	K	Z80
29P	2018 07 24.03270	23 18 52.67	+01 34 40.8	16.8	N	K	160
29P	2018 07 24.034766	23 18 52.66	+01 34 40.7	16.4	N	K	Z80
29P	2018 07 24.03556	23 18 52.65	+01 34 40.7	16.1	N	K	160
29P	2018 07 24.037175	23 18 52.63	+01 34 41.3	16.6	N	K	Z80
29P	2018 07 24.039670	23 18 52.61	+01 34 40.3	16.7	N	K	Z80
29P	2018 07 24.042174	23 18 52.59	+01 34 40.9	16.6	N	K	Z80
29P	2018 07 24.04573	23 18 52.52	+01 34 41.0	16.1	N	K	C10
29P	2018 07 24.06256	23 18 52.33	+01 34 41.4	16.2	N	K	L27
29P	2018 07 24.08774	23 18 52.04	+01 34 42.1	16.1	N	K	L27
29P	2018 07 25.08147	23 18 40.31	+01 35 01.8	16.2	N	K	L27
29P	2018 07 25.12309	23 18 39.73	+01 35 02.9	16.2	N	K	L27
29P	2018 07 25.57279	23 18 34.25	+01 35 10.4	16.2	o		T08
29P	2018 07 25.58294	23 18 34.15	+01 35 10.2	16.3	o		T08
29P	2018 07 25.59308	23 18 34.04	+01 35 10.5	16.2	o		T08
29P	2018 07 25.60375	23 18 33.86	+01 35 10.8	16.2	o		T08
29P	2018 07 25.68831	23 18 32.78	+01 35 14.8	16.2	R	¡	Q62
29P	2018 07 25.73968	23 18 32.16	+01 35 15.3	16.3	R	¡	Q62
29P	2018 07 25.94722	23 18 29.60	+01 35 15.8	16.2	N	K	C10
29P	2018 07 26.00772	23 18 28.82	+01 35 16.6	16.2	N	K	C10
29P	2018 07 26.06981	23 18 28.00	+01 35 17.6	16.3	N	K	C10
29P	2018 07 26.14208	23 18 27.15	+01 35 20.9	16.4	N		KW96
29P	2018 07 26.32628	23 18 24.71	+01 35 23.4	16.3	N		KW96
29P	2018 07 26.44512	23 18 23.26	+01 35 23.4	16.7	o		T05
29P	2018 07 26.45306	23 18 23.14	+01 35 23.5	16.7	o		T05
29P	2018 07 26.46109	23 18 23.05	+01 35 23.4	16.0	o		T05
29P	2018 07 26.46921	23 18 22.93	+01 35 23.4	15.9	o		T05
29P	2018 07 27.49282	23 18 09.41	+01 35 34.4	16.2	o		T05
29P	2018 07 27.49695	23 18 09.34	+01 35 34.4	16.0	o		T05
29P	2018 07 27.52760	23 18 08.94	+01 35 34.4	16.0	o		T05
29P	2018 07 27.53608	23 18 08.82	+01 35 34.3	16.6	o		T05
29P	2018 08 01.71859	23 16 51.37	+01 35 24.9	14.2	N		Q67
29P	2018 08 01.82382	23 16 49.59	+01 35 23.3	14.1	N		Q67
29P	2018 08 01.92191	23 16 48.16	+01 35 19.8	14.2	N		C10
29P	2018 08 01.93232	23 16 47.98	+01 35 19.5	14.2	N		C23
29P	2018 08 01.93756	23 16 47.91	+01 35 19.7	14.2	N		C23
29P	2018 08 01.94205	23 16 47.82	+01 35 19.3	14.2	N		C23
29P	2018 08 01.94397	23 16 47.78	+01 35 19.4	14.2	N		C10
29P	2018 08 01.97009	23 16 47.36	+01 35 19.0	14.2	N		C10
29P	2018 08 01.99292	23 16 46.97	+01 35 18.7	14.2	N		C10
29P	2018 08 02.01914	23 16 46.52	+01 35 18.3	14.2	N		C10
29P	2018 08 02.04539	23 16 46.08	+01 35 17.9	14.2	N		C10
29P	2018 08 02.06823	23 16 45.70	+01 35 17.7	14.2	N		C10
29P	2018 08 02.61275	23 16 36.59	+01 35 09.9	14.5	o		T08
29P	2018 08 02.61371	23 16 36.56	+01 35 10.1	14.6	o		T08
29P	2018 08 02.61474	23 16 36.54	+01 35 09.8	14.5	o		T08
29P	2018 08 02.61568	23 16 36.53	+01 35 09.7	14.6	o		T08
29P	2018 08 02.62436	23 16 36.36	+01 35 09.9	14.6	o		T08
29P	2018 08 02.62638	23 16 36.35	+01 35 09.5	14.5	o		T08
29P	2018 08 02.92791	23 16 31.39	+01 35 03.9	14.3	N		C23
29P	2018 08 02.93241	23 16 31.31	+01 35 04.7	14.7	N		C23
29P	2018 08 02.93586	23 16 31.26	+01 35 03.7	14.4	N		C10
29P	2018 08 02.93615	23 16 31.25	+01 35 03.6	14.4	N		C23
29P	2018 08 02.95260	23 16 30.94	+01 35 03.5	14.4	N		C10
29P	2018 08 03.02791	23 16 29.67	+01 35 02.0	14.4	N		K02
29P	2018 08 03.03475	23 16 29.55	+01 35 01.5	14.3	N		K02
29P	2018 08 03.03624	23 16 29.47	+01 35 02.1	15.7	R		B96
29P	2018 08 03.04242	23 16 29.39	+01 35 01.9	14.3	N		K02
29P	2018 08 03.044873	23 16 29.36	+01 35 02.0	14.1	T	K	Z80
29P	2018 08 03.047238	23 16 29.34	+01 35 00.9	14.6	N	K	Z80
29P	2018 08 03.04767	23 16 29.31	+01 35 01.8	15.7	R		B96
29P	2018 08 03.049606	23 16 29.33	+01 35 01.8	14.8	N	K	Z80
29P	2018 08 03.051968	23 16 29.24	+01 35 00.8	14.7	N	K	Z80
29P	2018 08 03.054336	23 16 29.18	+01 35 01.5	14.6	N	K	Z80
29P	2018 08 03.056701	23 16 29.16	+01 35 01.3	14.7	N	K	Z80
29P	2018 08 03.059074	23 16 29.12	+01 35 01.6	14.6	N	K	Z80
29P	2018 08 03.061437	23 16 29.09	+01 35 00.9	14.7	N	K	Z80
29P	2018 08 03.063808	23 16 29.04	+01 35 01.1	14.6	N	K	Z80
29P	2018 08 03.55680	23 16 20.65	+01 34 52.5	13.5	T		D95
29P	2018 08 03.56112	23 16 20.57	+01 34 52.1				D95
29P	2018 08 03.96006	23 16 13.65	+01 34 43.8	14.8	N		213
29P	2018 08 03.98666	23 16 13.18	+01 34 43.5	15.0	N		J22
29P	2018 08 03.99450	23 16 13.02	+01 34 43.0	15.0	N		J22
29P	2018 08 04.00000	23 16 12.95	+01 34 42.7	14.8	N		213
29P	2018 08 04.00132	23 16 12.92	+01 34 42.5	15.3	V	K	A71
29P	2018 08 04.00464	23 16 12.84	+01 34 42.3	15.3	V	K	A71
29P	2018 08 04.00797	23 16 12.79	+01 34 42.2	15.3	V	K	A71
29P	2018 08 04.00880	23 16 12.74	+01 34 43.4	15.4	N	K	160
29P	2018 08 04.01132	23 16 12.72	+01 34 41.9	15.3	V	K	A71
29P	2018 08 04.01160	23 16 12.69	+01 34 43.4	15.4	N	K	160
29P	2018 08 04.01439	23 16 12.64	+01 34 43.8	15.5	N	K	160
29P	2018 08 04.01465	23 16 12.65	+01 34 42.5	15.3	V	K	A71
29P	2018 08 04.04512	23 16 12.06	+01 34 42.2	15.8	R		B96
29P	2018 08 04.04675	23 16 12.00	+01 34 42.1	15.9	R		B96
29P	2018 08 04.81102	23 15 58.54	+01 34 23.8	14.3	R		D29
29P	2018 08 04.82516	23 15 58.28	+01 34 23.4	14.3	R		D29
29P	2018 08 04.83930	23 15 58.02	+01 34 23.1	14.3	R		D29
29P	2018 08 04.98456	23 15 55.40	+01 34 19.6	15.2	N		K97
29P	2018 08 04.99509	23 15 55.22	+01 34 19.6	15.2	N		K97
29P	2018 08 05.01155	23 15 54.85	+01 34 19.6	15.3	N		K97
29P	2018 08 05.02537	23 15 54.72	+01 34 17.7	14.9	N		L27
29P	2018 08 05.02912	23 15 54.56	+01 34 18.7	15.2	N		K02
29P	2018 08 05.03597	23 15 54.46	+01 34 18.6	15.1	N		K02
29P	2018 08 05.04109	23 15 54.39	+01 34 18.2	15.0	N		K02
29P	2018 08 05.04127	23 15 54.42	+01 34 17.5	14.9	N		L27

29P	2018 08 05.04248	23 15 54.35	+01 34 17.1	14.9	N		J01
29P	2018 08 05.044742	23 15 54.31	+01 34 18.9	14.0	T	K	Z80
29P	2018 08 05.047161	23 15 54.29	+01 34 17.9	15.4	N	K	Z80
29P	2018 08 05.049581	23 15 54.18	+01 34 18.6	15.2	N	K	Z80
29P	2018 08 05.052005	23 15 54.19	+01 34 17.4	15.1	N	K	Z80
29P	2018 08 05.054427	23 15 54.09	+01 34 18.1	15.3	N	K	Z80
29P	2018 08 05.06020	23 15 54.10	+01 34 17.6	14.9	N		L27
29P	2018 08 05.06406	23 15 53.94	+01 34 17.8	14.9	N		J01
29P	2018 08 05.09282	23 15 53.40	+01 34 16.6	14.9	N		J01
29P	2018 08 05.70679	23 15 42.17	+01 34 01.1	13.7	T		Q11
29P	2018 08 05.71106	23 15 42.09	+01 34 00.9				Q11
29P	2018 08 05.72395	23 15 41.86	+01 34 00.6				Q11
29P	2018 08 05.96389	23 15 37.52	+01 33 54.1	16.2	V		K40
29P	2018 08 05.97770	23 15 37.28	+01 33 52.6	15.3	N		C23
29P	2018 08 05.97897	23 15 37.35	+01 33 51.4	15.3	N		J22
29P	2018 08 05.98291	23 15 37.23	+01 33 52.2	15.3	N		J22
29P	2018 08 05.98594	23 15 37.12	+01 33 52.2	15.3	N		C23
29P	2018 08 05.98684	23 15 37.14	+01 33 53.1	15.3	N		J22
29P	2018 08 05.99343	23 15 36.99	+01 33 52.2	15.2	N		C23
29P	2018 08 05.99704	23 15 36.86	+01 33 53.1	16.3	N	K	160
29P	2018 08 05.99985	23 15 36.81	+01 33 52.9	16.4	N	K	160
29P	2018 08 06.00267	23 15 36.77	+01 33 52.6	16.3	N	K	160
29P	2018 08 06.029155	23 15 36.31	+01 33 51.6	14.0	T	K	Z80
29P	2018 08 06.031528	23 15 36.25	+01 33 51.0	15.5	N	K	Z80
29P	2018 08 06.033891	23 15 36.26	+01 33 50.8	15.3	N	K	Z80
29P	2018 08 06.036262	23 15 36.15	+01 33 51.4	15.4	N	K	Z80
29P	2018 08 06.038634	23 15 36.09	+01 33 50.7	15.4	N	K	Z80
29P	2018 08 06.04091	23 15 36.05	+01 33 50.0	17.2	R		B96
29P	2018 08 06.040995	23 15 36.13	+01 33 50.4	15.3	N	K	Z80
29P	2018 08 06.05214	23 15 35.84	+01 33 50.8	15.4	N	K	K02
29P	2018 08 06.05235	23 15 35.84	+01 33 49.9	15.6	R		B96
29P	2018 08 06.05641	23 15 35.76	+01 33 50.6	15.3	N	K	K02
29P	2018 08 06.06380	23 15 35.64	+01 33 49.8	15.5	R		B96
29P	2018 08 06.07859	23 15 35.30	+01 33 49.7	16.3	R		B96
29P	2018 08 06.09110	23 15 35.25	+01 33 48.6	15.1	N		213
29P	2018 08 06.09501	23 15 35.15	+01 33 52.0	15.5	N		W96
29P	2018 08 06.11922	23 15 34.75	+01 33 47.6	15.1	N		213
29P	2018 08 06.12381	23 15 34.62	+01 33 50.7	15.4	N		W96
29P	2018 08 06.14734	23 15 34.19	+01 33 47.0	15.1	N		213
29P	2018 08 06.15150	23 15 34.18	+01 33 50.0	15.4	N		W96
29P	2018 08 06.17289	23 15 33.70	+01 33 48.6	15.5	N		W96
29P	2018 08 06.57679	23 15 26.14	+01 33 34.1	15.2	o		T08
29P	2018 08 06.58747	23 15 25.93	+01 33 33.7	15.1	o		T08
29P	2018 08 06.59861	23 15 25.73	+01 33 33.3	15.2	o		T08
29P	2018 08 06.73822	23 15 22.90	+01 33 32.6	15.6	R	N	Q62
29P	2018 08 06.73907	23 15 22.94	+01 33 32.4	15.5	R	N	Q62
29P	2018 08 06.73992	23 15 22.89	+01 33 32.4	15.6	R	N	Q62
29P	2018 08 06.74078	23 15 22.89	+01 33 32.4	15.7	R	N	Q62
29P	2018 08 06.74157	23 15 22.84	+01 33 32.3	15.9	R	N	Q62
29P	2018 08 06.92567	23 15 19.55	+01 33 23.4	15.5	N		C10
29P	2018 08 06.99730	23 15 18.09	+01 33 21.1	15.8	R		B96
29P	2018 08 06.99937	23 15 18.07	+01 33 21.5	15.7	N	K	160
29P	2018 08 06.99999	23 15 18.08	+01 33 20.9	15.5	N		C23
29P	2018 08 07.00116	23 15 18.08	+01 33 21.2	15.6	N		C10
29P	2018 08 07.00226	23 15 18.01	+01 33 21.4	15.7	N	K	160
29P	2018 08 07.00495	23 15 17.94	+01 33 21.6	16.3	N	K	160
29P	2018 08 07.00547	23 15 17.97	+01 33 20.7	15.9	R		B96
29P	2018 08 07.01528	23 15 17.75	+01 33 20.6	15.7	R		B96
29P	2018 08 07.01534	23 15 17.81	+01 33 20.3	15.1	N		C23
29P	2018 08 07.02509	23 15 17.56	+01 33 20.3	15.9	R		B96
29P	2018 08 07.03178	23 15 17.45	+01 33 19.7	15.3	N		C23
29P	2018 08 07.03499	23 15 17.38	+01 33 19.7	15.5	R		B96
29P	2018 08 07.05321	23 15 17.22	+01 33 17.5	13.8	T		C10
29P	2018 08 07.08282	23 15 16.49	+01 33 18.1	15.6	N		C10
29P	2018 08 07.35979	23 15 11.16	+01 33 08.9	15.9	R		850
29P	2018 08 07.37510	23 15 10.81	+01 33 08.5	15.9	R		850
29P	2018 08 07.39059	23 15 10.47	+01 33 07.7	15.8	R		850
29P	2018 08 07.40588	23 15 10.18	+01 33 07.5	15.9	R		850
29P	2018 08 07.66953	23 15 05.18	+01 33 00.4	16.1	N		Q67
29P	2018 08 07.82201	23 15 02.16	+01 32 55.6	16.1	N		Q67
29P	2018 08 08.01460	23 14 58.54	+01 32 45.5	14.8	N		I81
29P	2018 08 08.01894	23 14 58.46	+01 32 45.5	14.8	N		I81
29P	2018 08 08.02184	23 14 58.41	+01 32 45.3	14.8	N		I81
29P	2018 08 08.12819	23 14 56.41	+01 32 42.4	16.0	N		W96
29P	2018 08 08.13182	23 14 56.20	+01 32 42.0	15.7	N		J22
29P	2018 08 08.13575	23 14 56.12	+01 32 41.8	15.7	N		J22
29P	2018 08 08.13972	23 14 56.05	+01 32 41.5	15.7	N		J22
29P	2018 08 08.17466	23 14 55.45	+01 32 41.6	15.9	N		W96
29P	2018 08 08.22278	23 14 54.45	+01 32 39.9	15.9	N		W96
29P	2018 08 08.27284	23 14 53.46	+01 32 38.4	15.9	N		W96
29P	2018 08 08.52825	23 14 48.46	+01 32 29.3	15.7	N		Q67
29P	2018 08 08.57920	23 14 47.40	+01 32 24.6	16.7	c		T05
29P	2018 08 08.58999	23 14 47.17	+01 32 24.2	16.6	c		T05
29P	2018 08 08.60081	23 14 46.96	+01 32 23.9	16.6	c		T05
29P	2018 08 08.61204	23 14 46.81	+01 32 23.2	13.5	T		Q11
29P	2018 08 08.61321	23 14 46.70	+01 32 23.4	16.7	c		T05
29P	2018 08 08.61628	23 14 46.74	+01 32 23.0				Q11
29P	2018 08 08.62912	23 14 46.47	+01 32 22.6				Q11
29P	2018 08 08.66061	23 14 45.75	+01 32 23.4	16.1	N		Q67
29P	2018 08 08.71274	23 14 44.74	+01 32 21.1	16.0	N		Q67
29P	2018 08 08.91955	23 14 40.75	+01 32 10.7	15.5	N		C23
29P	2018 08 08.93543	23 14 40.50	+01 32 08.9	15.4	N		C23
29P	2018 08 08.94512	23 14 40.22	+01 32 09.5	15.7	G		104
29P	2018 08 08.94986	23 14 40.15	+01 32 08.9	15.8	N		C23
29P	2018 08 08.96339	23 14 39.89	+01 32 09.3	16.4	R		B96
29P	2018 08 08.97156	23 14 39.67	+01 32 08.6	16.4	R		B96
29P	2018 08 08.97587	23 14 39.58	+01 32 08.3	15.9	G		104
29P	2018 08 08.98300	23 14 39.43	+01 32 08.3	16.3	R		B96
29P	2018 08 08.99291	23 14 39.22	+01 32 08.0	16.5	R		B96
29P	2018 08 08.99582	23 14 39.18	+01 32 07.5	15.9	G		104
29P	2018 08 09.01557	23 14 38.80	+01 32 06.6	15.0	N		I81
29P	2018 08 09.01847	23 14 38.73	+01 32 06.4	15.0	N		I81
29P	2018 08 09.02281	23 14 38.63	+01 32 06.4	14.9	N		I81
29P	2018 08 09.08306	23 14 37.46	+01 32 04.1	14.2	N	2	G40
29P	2018 08 09.08398	23 14 37.49	+01 32 03.6	14.2	N	2	G40
29P	2018 08 09.08494	23 14 37.48	+01 32 03.6	14.3	N	2	G40

29P	2018 08 09.08590	23 14 37.41	+01 32 03.9	14.2	N	2 G40
29P	2018 08 09.08686	23 14 37.50	+01 32 03.0	14.2	N	2 G40
29P	2018 08 09.08784	23 14 37.40	+01 32 02.9	14.2	N	2 G40
29P	2018 08 09.12957	23 14 36.63	+01 32 03.7	16.0	N	W96
29P	2018 08 09.17573	23 14 35.64	+01 32 02.1	16.0	N	W96
29P	2018 08 09.21705	23 14 34.73	+01 31 57.2	15.6	N	J22
29P	2018 08 09.22492	23 14 34.53	+01 31 57.5	15.6	N	J22
29P	2018 08 09.22561	23 14 34.58	+01 32 00.2	16.1	N	W96
29P	2018 08 09.27563	23 14 33.56	+01 31 57.4	16.0	N	W96
29P	2018 08 09.62750	23 14 26.57	+01 31 42.5	16.6	G	Q38
29P	2018 08 09.63142	23 14 26.48	+01 31 43.4	15.3	G	Q38
29P	2018 08 09.63387	23 14 26.38	+01 31 44.3	16.7	G	Q38
29P	2018 08 09.99454	23 14 19.05	+01 31 24.8	15.1	N	I81
29P	2018 08 09.99888	23 14 18.95	+01 31 24.6	15.2	N	I81
29P	2018 08 10.00177	23 14 18.90	+01 31 24.4	15.1	N	I81
29P	2018 08 10.05478	23 14 17.76	+01 31 22.6	15.9	N	K 160
29P	2018 08 10.05756	23 14 17.70	+01 31 22.4	15.9	N	K 160
29P	2018 08 10.06038	23 14 17.64	+01 31 22.7	16.6	N	K 160
29P	2018 08 10.08343	23 14 17.22	+01 31 22.4	15.6	N	J22
29P	2018 08 10.08776	23 14 17.17	+01 31 22.4	16.2	N	W96
29P	2018 08 10.09131	23 14 17.09	+01 31 20.4	15.6	N	J22
29P	2018 08 10.13424	23 14 16.22	+01 31 20.2	16.4	N	W96
29P	2018 08 10.18461	23 14 15.17	+01 31 18.7	16.1	N	W96
29P	2018 08 10.23476	23 14 14.11	+01 31 16.3	16.1	N	W96
29P	2018 08 10.28494	23 14 13.04	+01 31 14.4	16.1	N	W96
29P	2018 08 10.56743	23 14 07.23	+01 30 59.1	16.3	o	T08
29P	2018 08 10.57804	23 14 06.99	+01 30 58.8	16.3	o	T08
29P	2018 08 10.58918	23 14 06.75	+01 30 58.3	16.3	o	T08
29P	2018 08 10.59980	23 14 06.54	+01 30 57.4	16.1	o	T08
29P	2018 08 10.60627	23 14 06.47	+01 30 59.2	15.9	N	K E94
29P	2018 08 10.61883	23 14 06.17	+01 30 59.1	15.9	N	K E94
29P	2018 08 10.62631	23 14 06.01	+01 30 58.6	15.8	N	K E94
29P	2018 08 10.70672	23 14 04.33	+01 30 55.0	15.9	N	K E94
29P	2018 08 10.71399	23 14 04.13	+01 30 54.8	15.8	N	K E94
29P	2018 08 10.72199	23 14 04.00	+01 30 53.9	15.9	N	K E94
29P	2018 08 11.00183	23 13 58.26	+01 30 38.3	15.9	N	L27
29P	2018 08 11.02707	23 13 57.74	+01 30 36.9	15.9	N	K02
29P	2018 08 11.03303	23 13 57.56	+01 30 36.6	15.9	N	K02
29P	2018 08 11.03815	23 13 57.47	+01 30 36.5	15.9	N	K02
29P	2018 08 11.05072	23 13 57.26	+01 30 35.7	15.9	N	L27
29P	2018 08 11.09718	23 13 56.27	+01 30 33.4	16.0	N	L27
29P	2018 08 11.13635	23 13 55.45	+01 30 31.5	16.0	N	L27
29P	2018 08 12.00728	23 13 37.29	+01 29 44.4	15.1	V	K 215
29P	2018 08 12.00856	23 13 37.29	+01 29 44.3	15.2	V	K 215
29P	2018 08 12.00985	23 13 37.30	+01 29 44.2	15.4	V	K 215
29P	2018 08 12.04419	23 13 36.29	+01 29 46.0	15.6	N	L27
29P	2018 08 12.06529	23 13 35.83	+01 29 45.2	15.6	N	L27
29P	2018 08 12.08753	23 13 35.32	+01 29 43.7	15.2	R	B53
29P	2018 08 12.09000	23 13 35.29	+01 29 43.6	15.5	N	L27
29P	2018 08 12.09123	23 13 35.27	+01 29 43.0	16.1	R	B53
29P	2018 08 12.09491	23 13 35.18	+01 29 43.5	16.0	R	B53
29P	2018 08 12.09859	23 13 35.05	+01 29 43.3	15.9	R	B53
29P	2018 08 12.10227	23 13 34.98	+01 29 43.0	15.7	R	B53
29P	2018 08 12.11169	23 13 34.79	+01 29 42.6	15.7	N	L27
29P	2018 08 12.13418	23 13 34.30	+01 29 41.9	15.7	N	J22
29P	2018 08 12.13639	23 13 34.28	+01 29 41.0	15.6	N	L27
29P	2018 08 12.13829	23 13 34.22	+01 29 41.8	15.7	N	J22
29P	2018 08 12.14222	23 13 34.14	+01 29 41.6	15.7	N	J22
29P	2018 08 12.50663	23 13 26.43	+01 29 24.1	15.6	N	K E94
29P	2018 08 12.51474	23 13 26.27	+01 29 23.6	15.6	N	K E94
29P	2018 08 12.52362	23 13 26.05	+01 29 23.2	15.6	N	K E94
29P	2018 08 12.55784	23 13 25.37	+01 29 20.8	15.9	N	Q68
29P	2018 08 12.77608	23 13 20.52	+01 29 09.3	15.7	N	Q68
29P	2018 08 13.01882	23 13 15.32	+01 28 54.0	15.7	N	K 160
29P	2018 08 13.02161	23 13 15.26	+01 28 53.8	15.7	N	K 160
29P	2018 08 13.02426	23 13 15.19	+01 28 53.6	15.7	N	K 160
29P	2018 08 13.13809	23 13 12.80	+01 28 48.9	16.0	N	W96
29P	2018 08 13.18453	23 13 11.76	+01 28 46.4	15.9	N	W96
29P	2018 08 13.23468	23 13 10.63	+01 28 43.4	15.9	N	W96
29P	2018 08 13.27303	23 13 09.78	+01 28 41.8	15.8	N	W96
29P	2018 08 13.64663	23 13 01.64	+01 28 18.3	13.8	T	349
29P	2018 08 13.65506	23 13 01.43	+01 28 17.6			349
29P	2018 08 14.07221	23 12 52.33	+01 27 54.1	16.0	N	W96
29P	2018 08 14.11865	23 12 51.25	+01 27 52.5	15.9	N	W96
29P	2018 08 14.16885	23 12 50.16	+01 27 49.2	15.8	N	W96
29P	2018 08 14.21916	23 12 49.01	+01 27 46.3	15.9	N	W96
29P	2018 08 14.25440	23 12 48.22	+01 27 43.3	15.9	N	W96
29P	2018 08 14.55435	23 12 41.52	+01 27 23.9	15.7	o	T08
29P	2018 08 14.56501	23 12 41.26	+01 27 23.8	16.1	o	T08
29P	2018 08 14.57620	23 12 41.01	+01 27 22.5	15.7	o	T08
29P	2018 08 14.58685	23 12 40.76	+01 27 22.1	15.7	o	T08
29P	2018 08 14.98156	23 12 32.00	+01 26 57.5	15.7	R	C10
29P	2018 08 15.02122	23 12 31.09	+01 26 55.1	15.6	R	C10
29P	2018 08 15.05645	23 12 30.27	+01 26 52.8	15.6	N	J01
29P	2018 08 15.07051	23 12 29.95	+01 26 51.8	15.7	R	C10
29P	2018 08 15.07079	23 12 29.97	+01 26 52.4	15.6	N	J01
29P	2018 08 15.09228	23 12 29.45	+01 26 51.0	15.7	N	J01
29P	2018 08 15.19549	23 12 27.18	+01 26 46.1	16.0	N	W96
29P	2018 08 15.23464	23 12 26.27	+01 26 43.8	16.0	N	W96
29P	2018 08 15.27595	23 12 25.34	+01 26 39.6	16.0	N	W96
29P	2018 08 15.88591	23 12 11.51	+01 25 59.6	14.8	N	108
29P	2018 08 15.90108	23 12 11.21	+01 25 58.7	14.7	N	108
29P	2018 08 15.90752	23 12 11.04	+01 25 58.3	15.7	R	C10
29P	2018 08 15.90910	23 12 11.00	+01 25 58.6	14.8	N	108
29P	2018 08 15.92987	23 12 10.53	+01 25 57.0	15.8	R	C10
29P	2018 08 15.95365	23 12 09.98	+01 25 55.2	15.8	R	C10
29P	2018 08 15.98008	23 12 09.36	+01 25 53.5	15.6	N	C23
29P	2018 08 15.99595	23 12 08.98	+01 25 52.7	15.8	N	C23
29P	2018 08 16.00750	23 12 08.75	+01 25 51.9	15.5	N	C23
29P	2018 08 16.01607	23 12 08.50	+01 25 51.8	16.4	N	K 160
29P	2018 08 16.01883	23 12 08.43	+01 25 51.6	16.5	N	K 160
29P	2018 08 16.02159	23 12 08.38	+01 25 51.6	16.5	N	K 160
29P	2018 08 16.02878	23 12 08.21	+01 25 50.1	16.0	G	104
29P	2018 08 16.03479	23 12 08.09	+01 25 49.7	15.8	N	C10
29P	2018 08 16.03831	23 12 07.99	+01 25 49.7	15.2	N	I81
29P	2018 08 16.04633	23 12 07.79	+01 25 49.3	16.3	G	104

29P	2018 08 16.05758	23 12 07.55	+01 25 48.7	15.8	N	C10
29P	2018 08 16.05875	23 12 07.51	+01 25 48.3	15.9	G	104
29P	2018 08 16.07046	23 12 07.26	+01 25 47.2	15.2	N	I81
29P	2018 08 16.07748	23 12 07.09	+01 25 47.0	15.1	N	I81
29P	2018 08 16.08215	23 12 06.99	+01 25 46.3	15.7	N	C10
29P	2018 08 16.94097	23 11 47.24	+01 24 49.3	16.3	N	K 108
29P	2018 08 16.94329	23 11 47.15	+01 24 48.4	16.4	N	K 108
29P	2018 08 16.94561	23 11 47.11	+01 24 48.0	16.4	N	K 108
29P	2018 08 16.95213	23 11 46.94	+01 24 47.8	16.5	N	K 108
29P	2018 08 17.00720	23 11 45.68	+01 24 44.0	15.8	N	K K02
29P	2018 08 17.01315	23 11 45.54	+01 24 43.9	16.0	N	K K02
29P	2018 08 17.01911	23 11 45.38	+01 24 43.4	15.9	N	K K02
29P	2018 08 17.05634	23 11 44.50	+01 24 40.9	15.6	N	K 160
29P	2018 08 17.05912	23 11 44.43	+01 24 40.7	15.7	N	K 160
29P	2018 08 17.06190	23 11 44.37	+01 24 40.3	15.7	N	K 160
29P	2018 08 17.19725	23 11 41.28	+01 24 32.9	16.1	N	W96
29P	2018 08 17.21942	23 11 40.74	+01 24 31.8	16.0	N	W96
29P	2018 08 17.24600	23 11 40.10	+01 24 29.1	16.1	N	W96
29P	2018 08 17.31744	23 11 38.42	+01 24 23.5	15.5	R	H47
29P	2018 08 17.32362	23 11 38.28	+01 24 23.1	15.6	R	H47
29P	2018 08 17.32956	23 11 38.14	+01 24 22.6	15.5	R	H47
29P	2018 08 17.33793	23 11 37.93	+01 24 22.0	15.6	R	H47
29P	2018 08 17.52047	23 11 33.71	+01 24 10.5	15.9	N	K E94
29P	2018 08 17.52524	23 11 33.60	+01 24 10.4	15.9	N	K E94
29P	2018 08 17.53012	23 11 33.50	+01 24 09.3	15.9	N	K E94
29P	2018 08 17.61759	23 11 31.44	+01 24 01.5	13.2	T	D95
29P	2018 08 17.62405	23 11 31.29	+01 24 01.2			D95
29P	2018 08 17.87148	23 11 25.49	+01 23 44.0	15.9	N	585
29P	2018 08 17.87219	23 11 25.48	+01 23 44.1	15.7	N	585
29P	2018 08 17.87290	23 11 25.48	+01 23 43.8	15.8	N	585
29P	2018 08 17.87360	23 11 25.45	+01 23 44.0	15.6	N	585
29P	2018 08 17.87431	23 11 25.43	+01 23 43.9	15.8	N	585
29P	2018 08 17.87502	23 11 25.41	+01 23 43.8	15.8	N	585
29P	2018 08 17.87573	23 11 25.41	+01 23 43.5	15.7	N	585
29P	2018 08 17.87644	23 11 25.38	+01 23 43.8	15.5	N	585
29P	2018 08 17.87715	23 11 25.36	+01 23 43.5	15.7	N	585
29P	2018 08 17.87785	23 11 25.36	+01 23 43.5	15.9	N	585
29P	2018 08 17.87857	23 11 25.32	+01 23 43.4	15.5	N	585
29P	2018 08 17.87927	23 11 25.30	+01 23 43.3	15.7	N	585
29P	2018 08 17.87998	23 11 25.29	+01 23 43.1	15.9	N	585
29P	2018 08 17.88069	23 11 25.29	+01 23 43.0	15.7	N	585
29P	2018 08 17.88140	23 11 25.26	+01 23 43.3	15.7	N	585
29P	2018 08 17.98611	23 11 22.76	+01 23 35.1	16.2	R	B96
29P	2018 08 17.99265	23 11 22.62	+01 23 34.4	16.2	R	B96
29P	2018 08 17.99604	23 11 22.54	+01 23 34.2	15.9	N	C23
29P	2018 08 18.00082	23 11 22.41	+01 23 33.8	16.3	R	B96
29P	2018 08 18.00181	23 11 22.40	+01 23 33.3	16.2	N	C23
29P	2018 08 18.00745	23 11 22.28	+01 23 33.2	16.2	R	B96
29P	2018 08 18.00758	23 11 22.26	+01 23 33.2	15.9	N	C23
29P	2018 08 18.03064	23 11 21.71	+01 23 31.9	16.3	N	K 160
29P	2018 08 18.03211	23 11 21.68	+01 23 31.8	16.7	N	K 160
29P	2018 08 18.03355	23 11 21.62	+01 23 31.8	16.7	N	K 160
29P	2018 08 18.06708	23 11 20.96	+01 23 27.4	15.8	N	J22
29P	2018 08 18.06927	23 11 20.86	+01 23 28.7	15.8	N	J22
29P	2018 08 18.07512	23 11 20.71	+01 23 29.2	15.8	N	J22
29P	2018 08 18.08602	23 11 20.49	+01 23 29.4	16.5	N	W96
29P	2018 08 18.13616	23 11 19.27	+01 23 26.3	16.2	N	W96
29P	2018 08 18.18703	23 11 18.06	+01 23 21.9	16.2	N	W96
29P	2018 08 18.53066	23 11 09.89	+01 22 54.6	15.8	o	T08
29P	2018 08 18.54151	23 11 09.62	+01 22 53.8	15.8	o	T08
29P	2018 08 18.55179	23 11 09.35	+01 22 53.3	15.9	o	T08
29P	2018 08 18.56272	23 11 09.10	+01 22 52.1	15.8	o	T08
29P	2018 08 19.04793	23 10 57.53	+01 22 16.7	15.6	N	K 160
29P	2018 08 19.05044	23 10 57.47	+01 22 16.6	15.6	N	K 160
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29P	2018 08 19.36268	23 10 50.11	+01 21 54.8	15.2	N	K E94
29P	2018 08 19.40267	23 10 49.17	+01 21 51.6	15.2	N	K E94
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29P	2018 08 19.97573	23 10 35.29	+01 21 04.2	15.9	G	104
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29P	2018 08 20.54589	23 10 21.35	+01 20 19.4	15.8	o	T05
29P	2018 08 20.55630	23 10 21.10	+01 20 18.4	15.3	o	T05
29P	2018 08 20.56718	23 10 20.83	+01 20 17.3	15.3	o	T05
29P	2018 08 20.93166	23 10 12.14	+01 19 47.3	15.5	N	J22
29P	2018 08 20.93777	23 10 11.90	+01 19 47.4	15.5	N	J22
29P	2018 08 20.93978	23 10 11.85	+01 19 47.3	15.5	N	J22
29P	2018 08 21.00668	23 10 10.15	+01 19 41.0	15.3	N	I81
29P	2018 08 21.01392	23 10 09.97	+01 19 40.3	15.4	N	I81
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29P	2018 08 21.03578	23 10 09.40	+01 19 39.2	15.7	N	K 160
29P	2018 08 21.03845	23 10 09.34	+01 19 39.0	15.6	N	K 160
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29P	2018 08 21.29166	23 10 03.10	+01 19 20.0	15.7	N	W96
29P	2018 08 21.31382	23 10 02.55	+01 19 17.7	15.8	N	W96
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29P	2018 08 21.92903	23 09 47.51	+01 18 24.7	15.6	N	J22
29P	2018 08 21.93316	23 09 47.40	+01 18 23.8	15.6	N	J22
29P	2018 08 21.93713	23 09 47.26	+01 18 23.5	15.6	N	J22
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29P	2018 08 22.07429	23 09 43.77	+01 18 11.9	15.3	N	C23
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29P	2018 08 22.12873	23 09 42.50	+01 18 09.2	15.9	N	W96
29P	2018 08 22.92081	23 09 22.78	+01 16 58.2	15.7	N	J22
29P	2018 08 22.92689	23 09 22.59	+01 16 58.5	15.7	N	J22
29P	2018 08 22.95375	23 09 21.91	+01 16 55.2	15.6	N	K L27
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29P	2018 08 22.96523	23 09 21.55	+01 16 55.1	16.1	R		B96
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29P	2018 08 23.04464	23 09 19.56	+01 16 47.7	15.6	N	K	L27
29P	2018 08 23.08945	23 09 18.45	+01 16 43.2	15.6	N	K	L27
29P	2018 08 23.43290	23 09 09.91	+01 16 15.6	15.8	N	K	E94
29P	2018 08 23.43773	23 09 09.75	+01 16 15.3	15.8	N	K	E94
29P	2018 08 23.49275	23 09 08.32	+01 16 09.6	15.8	N	K	E94
29P	2018 08 23.49758	23 09 08.21	+01 16 09.5	15.8	N	K	E94
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29P	2018 08 24.080943	23 08 53.38	+01 15 14.6	15.0	T	K	Z80
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29P	2018 08 24.087106	23 08 53.30	+01 15 14.1	15.9	N	K	Z80
29P	2018 08 24.08839	23 08 53.25	+01 15 13.6	15.7	N	K	L27
29P	2018 08 25.27493	23 08 22.93	+01 13 26.2	15.8	N		W96
29P	2018 08 25.30333	23 08 22.15	+01 13 23.6	15.8	N		W96
29P	2018 08 25.32549	23 08 21.61	+01 13 21.6	15.9	N		W96
29P	2018 08 25.84649	23 08 08.33	+01 12 29.2	15.6	N	K	C10
29P	2018 08 25.95036	23 08 05.61	+01 12 19.4	15.6	N	K	C10
29P	2018 08 26.96901	23 07 39.23	+01 10 39.5	15.7	N	K	L27
29P	2018 08 27.05820	23 07 36.87	+01 10 30.9	15.7	N	K	L27
29P	2018 08 27.14739	23 07 34.50	+01 10 22.6	15.8	N	K	L27
29P	2018 08 27.94253	23 07 13.85	+01 09 01.9	15.9	N	K	L27
29P	2018 08 27.98531	23 07 12.67	+01 08 57.7	16.0	N	K	L27
29P	2018 08 28.03173	23 07 11.44	+01 08 52.9	15.7	N	K	L27
29P	2018 08 28.07814	23 07 10.20	+01 08 47.9	15.8	N	K	L27
29P	2018 08 28.12450	23 07 08.94	+01 08 43.9	15.8	N	K	L27
29P	2018 08 28.15645	23 07 08.10	+01 08 40.3	15.7	N	K	L27
29P	2018 08 29.06619	23 06 44.18	+01 07 06.6	16.5	N	K	160
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29P	2018 08 29.29457	23 06 38.09	+01 06 45.2	16.2	N		KW96
29P	2018 08 29.97409	23 06 20.28	+01 05 30.9	16.3	N	K	L27
29P	2018 08 30.01726	23 06 19.05	+01 05 26.1	16.2	N	K	L27
29P	2018 08 30.06466	23 06 17.71	+01 05 21.3	16.0	N	K	L27
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29P	2018 08 30.14680	23 06 15.52	+01 05 13.0	16.3	N	K	L27
29P	2018 08 30.51929	23 06 05.64	+01 04 32.6	15.7	o		T08
29P	2018 08 30.52932	23 06 05.37	+01 04 31.4	15.7	o		T08
29P	2018 08 30.53934	23 06 05.10	+01 04 30.4	15.6	o		T08
29P	2018 08 30.54931	23 06 04.82	+01 04 29.4	15.7	o		T08
29P	2018 08 30.99931	23 05 52.88	+01 03 40.9	15.8	N		J38
29P	2018 08 31.00638	23 05 52.67	+01 03 40.2	15.7	N		J38
29P	2018 08 31.01345	23 05 52.49	+01 03 39.6	15.7	N		J38
29P	2018 08 31.06824	23 05 51.02	+01 03 33.1	15.8	N		J22
29P	2018 08 31.07432	23 05 50.81	+01 03 33.2	15.8	N		J22
29P	2018 08 31.11979	23 05 49.60	+01 03 27.3	15.3	N		I81
29P	2018 08 31.12413	23 05 49.47	+01 03 26.9	15.2	N		I81
29P	2018 08 31.12703	23 05 49.39	+01 03 26.5	15.4	N		I81
29P	2018 08 31.89302	23 05 28.96	+01 02 02.4	15.8	N		C23
29P	2018 08 31.89811	23 05 28.95	+01 02 00.9	15.5	N		J22
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29P	2018 08 31.91178	23 05 28.47	+01 02 00.4	15.8	N		C23
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29P	2018 08 31.93126	23 05 27.93	+01 01 58.0	16.0	N	K	L27
29P	2018 08 31.98864	23 05 26.37	+01 01 51.4	16.0	N	K	K02
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29P	2018 09 01.02144	23 05 25.50	+01 01 48.7	15.7	N		J38
29P	2018 09 01.07796	23 05 23.95	+01 01 41.0	16.0	N	K	L27
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29P	2018 09 01.96954	23 04 59.96	+01 00 01.7	16.3	N		K97
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29P	2018 09 01.98355	23 04 59.64	+00 59 59.7	15.7	N		J01
29P	2018 09 01.98498	23 04 59.53	+01 00 00.0	16.4	N		K97
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29P	2018 09 02.00512	23 04 59.04	+00 59 57.2	15.7	N		J01
29P	2018 09 02.01244	23 04 58.85	+00 59 56.1	15.8	N	K	L27
29P	2018 09 02.09027	23 04 56.67	+00 59 48.4	15.8	N		J22
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29P	2018 09 02.09420	23 04 56.57	+00 59 48.1	15.8	N		J22
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29P	2018 09 05.06764	23 03 36.03	+00 54 00.8	16.0	N	K L27
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29P	2018 09 05.94693	23 03 12.03	+00 52 14.9	15.0	N	I81
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29P	2018 09 07.58157	23 02 27.57	+00 48 57.7	16.2	G	Q38
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29P	2018 09 07.96095	23 02 17.24	+00 48 08.3	15.7	N	C10
29P	2018 09 07.99116	23 02 16.41	+00 48 04.5	15.6	N	K L27
29P	2018 09 08.08391	23 02 13.82	+00 47 53.0	15.6	N	K L27
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29P	2018 09 08.75706	23 01 55.55	+00 46 30.1	16.4	N	C97
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29P	2018 09 08.97438	23 01 49.57	+00 46 02.3	16.1	N	K 160
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29P	2018 09 09.49723	23 01 35.30	+00 44 56.5	15.6	o	T05
29P	2018 09 09.50798	23 01 34.99	+00 44 55.1	15.7	o	T05
29P	2018 09 09.51824	23 01 34.72	+00 44 53.7	15.6	o	T05
29P	2018 09 09.52891	23 01 34.42	+00 44 52.4	15.6	o	T05
29P	2018 09 09.82832	23 01 26.38	+00 44 13.8	15.4	N	C10
29P	2018 09 09.87692	23 01 25.04	+00 44 07.8	15.5	N	C10
29P	2018 09 09.92617	23 01 23.68	+00 44 01.8	15.4	N	C10
29P	2018 09 09.94902	23 01 23.04	+00 43 58.8	15.4	N	C10
29P	2018 09 09.97819	23 01 22.21	+00 43 55.4	15.3	N	K 160
29P	2018 09 09.98070	23 01 22.15	+00 43 55.1	15.0	N	K 160
29P	2018 09 09.98321	23 01 22.08	+00 43 54.7	15.5	N	K 160
29P	2018 09 10.52236	23 01 07.45	+00 42 48.1	15.7	N	Q68
29P	2018 09 10.63447	23 01 04.32	+00 42 33.9	15.6	N	Q68
29P	2018 09 10.93950	23 00 56.08	+00 41 52.3	15.7	N	K 160
29P	2018 09 10.94224	23 00 56.00	+00 41 52.0	15.7	N	K 160
29P	2018 09 10.94499	23 00 55.92	+00 41 51.9	16.2	N	K 160
29P	2018 09 10.95760	23 00 55.59	+00 41 49.7	15.5	N	L27
29P	2018 09 10.982943	23 00 54.89	+00 41 46.2	15.5	T	K Z80
29P	2018 09 10.985428	23 00 54.82	+00 41 45.9	15.8	N	K Z80
29P	2018 09 10.987367	23 00 54.73	+00 41 45.6	16.1	N	K Z80
29P	2018 09 10.989310	23 00 54.71	+00 41 45.0	15.4	N	K Z80

29P	2018 09 10.991817	23 00 54.63	+00 41 44.5	15.7	N	K	Z80
29P	2018 09 11.00410	23 00 54.30	+00 41 43.7	15.6	N		L27
29P	2018 09 11.04909	23 00 53.04	+00 41 38.0	15.7	N		L27
29P	2018 09 11.09558	23 00 51.78	+00 41 32.2	15.5	N		L27
29P	2018 09 11.14200	23 00 50.50	+00 41 26.5	15.5	N		L27
29P	2018 09 11.16918	23 00 49.78	+00 41 22.7	15.6	N		L27
29P	2018 09 11.48882	23 00 41.11	+00 40 42.0	15.4	o		T08
29P	2018 09 11.49946	23 00 40.82	+00 40 40.6	15.4	o		T08
29P	2018 09 11.50965	23 00 40.54	+00 40 39.2	15.4	o		T08
29P	2018 09 11.52028	23 00 40.24	+00 40 37.8	15.4	o		T08
29P	2018 09 11.87110	23 00 30.82	+00 39 51.9	15.7	N		C10
29P	2018 09 11.91987	23 00 29.49	+00 39 45.6	15.6	N		C10
29P	2018 09 11.95533	23 00 28.50	+00 39 41.4	15.3	N		I81
29P	2018 09 11.95967	23 00 28.39	+00 39 40.5	15.2	N		I81
29P	2018 09 11.96256	23 00 28.31	+00 39 40.1	15.3	N		I81
29P	2018 09 11.96909	23 00 28.13	+00 39 39.2	15.7	N		C10
29P	2018 09 12.00914	23 00 27.02	+00 39 34.2	15.7	N		C10
29P	2018 09 12.29683	23 00 19.31	+00 38 59.2	15.4	N	K	E94
29P	2018 09 12.31081	23 00 18.96	+00 38 57.3	15.6	N	K	E94
29P	2018 09 12.32098	23 00 18.69	+00 38 56.3	15.5	N	K	E94
29P	2018 09 12.33788	23 00 18.20	+00 38 54.0	15.6	N	K	E94
29P	2018 09 12.34883	23 00 17.87	+00 38 52.5	15.7	N	K	E94
29P	2018 09 12.43757	23 00 15.46	+00 38 41.2	15.6	N	K	E94
29P	2018 09 12.49589	23 00 13.84	+00 38 33.5	15.6	N	K	E94
29P	2018 09 12.55772	23 00 12.20	+00 38 25.4	15.7	N		Q68
29P	2018 09 12.63551	23 00 10.05	+00 38 15.4	15.7	N		Q68
29P	2018 09 12.71616	23 00 08.04	+00 38 04.0	16.2	N		C97
29P	2018 09 12.71769	23 00 07.97	+00 38 03.7	16.1	N		C97
29P	2018 09 12.71922	23 00 07.93	+00 38 03.2	16.2	N		C97
29P	2018 09 13.89731	22 59 36.10	+00 35 27.9	15.7	N		L27
29P	2018 09 13.98963	22 59 33.56	+00 35 16.1	15.7	N		L27
29P	2018 09 14.01266	22 59 32.93	+00 35 13.2	15.8	N		C23
29P	2018 09 14.01715	22 59 32.81	+00 35 12.4	15.7	N		C23
29P	2018 09 14.02239	22 59 32.67	+00 35 12.0	16.0	N		C23
29P	2018 09 14.03610	22 59 32.30	+00 35 09.9	15.7	N		L27
29P	2018 09 14.08256	22 59 31.02	+00 35 03.8	15.8	N		L27
29P	2018 09 14.12903	22 59 29.77	+00 34 57.4	15.7	N		L27
29P	2018 09 14.16503	22 59 28.79	+00 34 52.9	16.0	N	K	L27
29P	2018 09 14.45979	22 59 20.92	+00 34 16.5	15.8	N	K	E94
29P	2018 09 14.46455	22 59 20.84	+00 34 15.7	15.8	N	K	E94
29P	2018 09 14.52472	22 59 19.27	+00 34 08.6	16.2	N		323
29P	2018 09 14.53072	22 59 19.04	+00 34 07.1	15.8	N	K	E94
29P	2018 09 14.53564	22 59 18.99	+00 34 06.6	15.8	N	K	E94
29P	2018 09 14.55685	22 59 18.33	+00 34 02.8	15.7	N		Q68
29P	2018 09 14.57197	22 59 17.81	+00 34 01.7	15.8	N	K	E94
29P	2018 09 14.57686	22 59 17.80	+00 34 00.8	15.9	N	K	E94
29P	2018 09 14.63654	22 59 16.19	+00 33 51.7	15.7	N		Q68
29P	2018 09 14.78382	22 59 12.16	+00 33 34.3	16.2	N		323
29P	2018 09 14.95507	22 59 07.67	+00 33 08.8	15.3	N		I81
29P	2018 09 14.95942	22 59 07.55	+00 33 08.3	15.3	N		I81
29P	2018 09 14.96231	22 59 07.48	+00 33 07.9	15.3	N		I81
29P	2018 09 14.96282	22 59 07.48	+00 33 07.7	15.6	N		J01
29P	2018 09 14.98442	22 59 06.89	+00 33 05.2	15.6	N		J01
29P	2018 09 14.99880	22 59 06.50	+00 33 02.8	15.6	N		J01
29P	2018 09 15.054927	22 59 04.98	+00 32 53.7	12.5	T	K	247
29P	2018 09 15.054927	1 357.2883	+50.7052	13		K	247
29P	2018 09 15.058834	22 59 04.83	+00 32 53.9	15.5	N	K	247
29P	2018 09 15.058834	1 357.2883	+50.7052	13		K	247
29P	2018 09 15.062090	22 59 04.75	+00 32 54.0	15.7	N	K	247
29P	2018 09 15.062090	1 357.2883	+50.7052	13		K	247
29P	2018 09 15.064699	22 59 04.69	+00 32 54.5	15.6	N	K	247
29P	2018 09 15.064699	1 357.2883	+50.7052	13		K	247
29P	2018 09 15.067303	22 59 04.66	+00 32 54.1	15.8	N	K	247
29P	2018 09 15.067303	1 357.2883	+50.7052	13		K	247
29P	2018 09 15.45252	22 58 54.33	+00 32 02.7	15.7	o		T08
29P	2018 09 15.46262	22 58 54.06	+00 32 01.3	15.6	o		T08
29P	2018 09 15.46408	22 58 54.03	+00 32 01.7	15.5	o		T08
29P	2018 09 15.47275	22 58 53.79	+00 31 59.8	15.6	o		T08
29P	2018 09 15.47413	22 58 53.76	+00 32 00.4	15.5	o		T08
29P	2018 09 15.48278	22 58 53.52	+00 31 58.5	15.7	o		T08
29P	2018 09 15.48425	22 58 53.47	+00 31 59.2	15.5	o		T08
29P	2018 09 15.49428	22 58 53.19	+00 31 58.2	16.0	o		T08
29P	2018 09 15.55990	22 58 51.49	+00 31 51.3	16.0	N	K	E94
29P	2018 09 15.56524	22 58 51.33	+00 31 50.6	15.9	N	K	E94
29P	2018 09 15.64638	22 58 49.15	+00 31 40.6	15.9	N	K	E94
29P	2018 09 15.65165	22 58 48.98	+00 31 39.5	16.0	N	K	E94
29P	2018 09 15.84049	22 58 44.06	+00 31 12.1	15.8	V		K40
29P	2018 09 15.84807	22 58 43.88	+00 31 11.1	16.0	V		K40
29P	2018 09 15.85904	22 58 43.58	+00 31 09.4	16.1	V		K40
29P	2018 09 15.86793	22 58 43.33	+00 31 07.7	15.8	N		C10
29P	2018 09 15.91634	22 58 42.02	+00 31 01.8	15.9	N		C10
29P	2018 09 15.96378	22 58 40.73	+00 30 55.6	16.0	N		C10
29P	2018 09 16.89670	22 58 16.01	+00 28 51.4	16.2	N	K	L27
29P	2018 09 16.98101	22 58 13.72	+00 28 40.2	15.8	N	K	L27
29P	2018 09 17.02706	22 58 12.49	+00 28 33.9	15.9	N	K	L27
29P	2018 09 17.07343	22 58 11.24	+00 28 27.6	15.9	N	K	L27
29P	2018 09 17.11839	22 58 10.04	+00 28 21.6	16.1	N	K	L27
29P	2018 09 17.45244	22 58 01.25	+00 27 38.2	16.4	o		T05
29P	2018 09 17.45403	22 58 01.25	+00 27 39.4	16.3	N	K	E94
29P	2018 09 17.46231	22 58 01.04	+00 27 37.9	16.3	N	K	E94
29P	2018 09 17.46244	22 58 00.98	+00 27 36.8	16.4	o		T05
29P	2018 09 17.47247	22 58 00.71	+00 27 35.5	16.4	o		T05
29P	2018 09 17.47312	22 58 00.71	+00 27 36.7	16.3	N	K	E94
29P	2018 09 17.48252	22 58 00.44	+00 27 34.2	16.4	o		T05
29P	2018 09 17.48685	22 58 00.34	+00 27 35.5	16.4	N	K	E94
29P	2018 09 17.48987	22 58 00.36	+00 27 32.6			K	367
29P	2018 09 17.49251	22 58 00.28	+00 27 32.2			K	367
29P	2018 09 17.49494	22 58 00.22	+00 27 32.0	13.8	T	K	367
29P	2018 09 17.80370	22 57 52.10	+00 26 50.3	16.0	N		C10
29P	2018 09 17.85212	22 57 50.80	+00 26 43.6	15.9	N		C10
29P	2018 09 17.90131	22 57 49.49	+00 26 37.2	15.9	N		C10
29P	2018 09 17.95051	22 57 48.17	+00 26 30.9	16.0	N		C10
29P	2018 09 18.74068	22 57 27.52	+00 24 46.3	16.9	N		C97
29P	2018 09 18.74540	22 57 27.39	+00 24 45.5	16.8	N		C97
29P	2018 09 18.87079	22 57 24.09	+00 24 28.0	17.1	V	K	C47
29P	2018 09 18.87965	22 57 23.86	+00 24 26.7	17.0	V	K	C47

29P	2018 09 18.88924	22 57 23.60	+00 24 25.4	17.0	V	K	C47
29P	2018 09 18.89847	22 57 23.36	+00 24 24.2	17.0	V	K	C47
29P	2018 09 18.90787	22 57 23.10	+00 24 23.0	17.0	V	K	C47
29P	2018 09 19.07296	22 57 18.86	+00 24 03.3	16.1	N		W96
29P	2018 09 19.12634	22 57 17.42	+00 23 56.0	16.2	N		W96
29P	2018 09 19.18140	22 57 15.97	+00 23 47.7	16.3	N		W96
29P	2018 09 19.45074	22 57 08.96	+00 23 09.6	15.9	o		T08
29P	2018 09 19.46082	22 57 08.67	+00 23 08.6	15.9	o		T08
29P	2018 09 19.47091	22 57 08.41	+00 23 06.9	15.9	o		T08
29P	2018 09 19.48091	22 57 08.12	+00 23 05.6	15.8	o		T08
29P	2018 09 19.85530	22 56 58.55	+00 22 15.5	16.2	N	K	L27
29P	2018 09 19.90019	22 56 57.39	+00 22 08.1	16.3	N	K	L27
29P	2018 09 19.94668	22 56 56.11	+00 22 03.3	16.1	N	K	L27
29P	2018 09 20.06588	22 56 52.98	+00 21 47.5	16.1	N	K	L27
29P	2018 09 20.11815	22 56 51.61	+00 21 40.6	16.0	N	K	L27

30P/Reinmuth

30P	2018 04 18.99395	15 07 20.62	−04 38 12.0	18.9	N	K	160
30P	2018 04 18.99631	15 07 20.45	−04 38 11.7	19.0	N	K	160
30P	2018 04 18.99866	15 07 20.31	−04 38 10.3	19.1	N	K	160
30P	2018 04 22.03731	15 04 54.67	−04 26 40.1	17.7	N	K	585
30P	2018 04 22.03803	15 04 54.60	−04 26 40.7	17.3	N	K	585
30P	2018 04 22.03945	15 04 54.59	−04 26 39.5	17.3	N	K	585
30P	2018 04 22.04017	15 04 54.49	−04 26 39.2	17.5	N	K	585
30P	2018 04 22.04088	15 04 54.46	−04 26 40.2	17.5	N	K	585
30P	2018 04 22.04159	15 04 54.42	−04 26 39.8	17.5	N	K	585
30P	2018 05 10.99240	14 49 06.51	−03 35 02.8	18.2	N	K	585
30P	2018 05 10.99311	14 49 06.47	−03 35 02.3	18.5	N	K	585
30P	2018 05 10.99382	14 49 06.45	−03 35 02.6	18.5	N	K	585
30P	2018 05 10.99453	14 49 06.41	−03 35 02.6	18.8	N	K	585
30P	2018 05 10.99524	14 49 06.36	−03 35 02.8	18.0	N	K	585
30P	2018 05 10.99559	14 49 06.34	−03 35 02.7	18.8	N	K	585
30P	2018 05 10.99594	14 49 06.38	−03 35 02.3	18.2	N	K	585
30P	2018 05 10.99701	14 49 06.28	−03 35 02.4	18.4	N	K	585
30P	2018 05 10.99772	14 49 06.26	−03 35 01.9	18.0	N	K	585
30P	2018 05 10.99842	14 49 06.25	−03 35 01.2	18.2	N	K	585
30P	2018 05 10.99913	14 49 06.18	−03 35 01.7	18.2	N	K	585
30P	2018 05 10.99984	14 49 06.18	−03 35 01.3	18.2	N	K	585
30P	2018 05 11.00055	14 49 06.15	−03 35 01.7	18.3	N	K	585
30P	2018 06 04.30872	14 33 49.32	−03 37 35.6	20.1	V		691
30P	2018 06 04.31702	14 33 49.09	−03 37 36.7	19.9	V		691
30P	2018 06 04.32532	14 33 48.89	−03 37 38.3	19.6	V		691
30P	2018 06 13.56171	14 30 54.04	−03 59 07.9			K	Q11
30P	2018 06 13.56598	14 30 53.99	−03 59 08.1			K	Q11
30P	2018 06 13.57028	14 30 53.93	−03 59 08.9	19.2	T	K	Q11

37P/Forbes

37P	2018 04 19.75323	21 11 29.18	−22 21 31.9	14.8	N		Q68
37P	2018 04 19.77192	21 11 32.50	−22 21 15.7	15.3	N		Q68
37P	2018 05 11.76895	22 06 52.77	−16 22 09.9				349
37P	2018 05 11.77323	22 06 53.33	−16 22 05.6				349
37P	2018 05 11.77751	22 06 53.93	−16 22 00.9	13.0	T		349
37P	2018 05 14.73398	22 13 35.82	−15 30 38.9	13.1	T		D95
37P	2018 05 14.74422	22 13 37.20	−15 30 28.6				D95
37P	2018 05 14.74715	22 13 37.57	−15 30 25.5				D95
37P	2018 05 20.72857	22 26 35.36	−13 45 34.5	13.3	T		D95
37P	2018 05 20.73369	22 26 35.99	−13 45 28.9				D95
37P	2018 05 20.74101	22 26 36.93	−13 45 21.2				D95
37P	2018 05 24.72693	22 34 48.32	−12 35 01.4	14.7	R		Q38
37P	2018 05 24.73035	22 34 48.64	−12 34 56.8	14.6	R		Q38
37P	2018 05 24.73475	22 34 49.26	−12 34 52.7	14.8	R		Q38
37P	2018 05 26.76571	22 38 51.10	−11 59 14.3			K	367
37P	2018 05 26.76733	22 38 51.28	−11 59 12.5			K	367
37P	2018 05 26.76895	22 38 51.47	−11 59 11.0	12.3	T	K	367
37P	2018 05 27.39262	22 40 04.41	−11 48 04.2	15.5	N		3W88
37P	2018 05 27.40015	22 40 05.32	−11 47 56.7	15.5	N		3W88
37P	2018 05 27.42722	22 40 08.39	−11 47 28.3	15.6	N		3W88
37P	2018 05 27.63994	22 40 32.97	−11 43 47.6	15	R		C51
Geocentric position (km)		+ 6848.3948	− 77.4554	− 370.7676			
37P	2018 05 27.77085	22 40 48.21	−11 41 29.6				C51
Geocentric position (km)		+ 6847.9213	− 63.3820	− 382.4626			
37P	2018 05 27.90162	22 41 03.40	−11 39 11.3				C51
Geocentric position (km)		+ 6851.6405	− 38.5039	− 311.0543			
37P	2018 05 28.16343	22 41 33.73	−11 34 35.2				C51
Geocentric position (km)		+ 6850.6838	− 10.3652	− 334.5645			
37P	2018 05 28.29433	22 41 48.87	−11 32 16.8				C51
Geocentric position (km)		+ 6850.1363	+ 3.7067	− 346.2720			
37P	2018 05 28.41997	22 42 03.78	−11 30 07.5	14.7	R		H47
37P	2018 05 28.42239	22 42 04.07	−11 30 05.2	14.8	R		H47
37P	2018 05 28.42420	22 42 04.27	−11 30 03.1	14.8	R		H47
37P	2018 05 28.42592	22 42 04.46	−11 30 01.3	14.9	R		H47
37P	2018 05 28.56069	22 42 20.10	−11 27 38.0	14.2	o		T05
37P	2018 05 28.56868	22 42 20.99	−11 27 29.5	14.3	o		T05
37P	2018 05 28.57667	22 42 21.91	−11 27 21.3	14.3	o		T05
37P	2018 05 28.58478	22 42 22.83	−11 27 12.8	14.3	o		T05
37P	2018 05 28.81782	22 42 49.15	−11 23 04.9	15	R		C51
Geocentric position (km)		+ 6851.4956	+ 70.8007	− 310.2655			
37P	2018 05 28.94860	22 43 04.13	−11 20 47.1				C51
Geocentric position (km)		+ 6853.9710	+ 95.7223	− 238.9452			
37P	2018 05 29.01405	22 43 11.62	−11 19 37.9				C51
Geocentric position (km)		+ 6853.6777	+ 102.7530	− 244.8511			
37P	2018 05 31.60727	22 48 04.13	−10 34 10.4	14.4	o		T05
37P	2018 05 31.61576	22 48 05.06	−10 34 01.6	14.2	o		T05
37P	2018 05 31.62378	22 48 05.92	−10 33 53.5	14.4	o		T05
37P	2018 06 01.00281	22 48 47.87	−10 27 17.1	14.3	N		585
37P	2018 06 01.00417	22 48 48.05	−10 27 15.5	14.4	N		585
37P	2018 06 01.00454	22 48 48.01	−10 27 15.5	14.3	N		585
37P	2018 06 01.00490	22 48 48.10	−10 27 16.1	14.4	N		585
37P	2018 06 01.00527	22 48 48.13	−10 27 14.0	14.4	N		585
37P	2018 06 01.00563	22 48 48.19	−10 27 14.0	14.4	N		585
37P	2018 06 01.00744	22 48 48.42	−10 27 12.4	14.4	N		585
37P	2018 06 01.00780	22 48 48.44	−10 27 11.5	14.3	N		585
37P	2018 06 08.32430	23 01 34.38	−08 20 10.3	15.0	N		W96
37P	2018 06 08.34817	23 01 36.71	−08 19 45.8	14.9	N		W96
37P	2018 06 08.37143	23 01 38.92	−08 19 22.0	14.9	N		W96
37P	2018 06 09.40479	23 03 20.42	−08 01 46.7	15.3	R		H47
37P	2018 06 09.40994	23 03 20.93	−08 01 40.9	15.4	R		H47

37P	2018 06 09.41268	23 03 21.17	−08 01 38.4	15.0	R		H47
37P	2018 06 09.41486	23 03 21.36	−08 01 36.1	15.0	R		H47
37P	2018 06 09.41723	23 03 21.61	−08 01 33.6	15.0	R		H47
37P	2018 06 14.81707	23 11 43.06	−06 30 11.5	14.6	R	¡	Q62
37P	2018 06 14.82405	23 11 43.67	−06 30 04.5	14.7	R	¡	Q62
37P	2018 06 16.40355	23 14 01.38	−06 03 58.1	14.9	R		H47
37P	2018 06 16.40589	23 14 01.57	−06 03 56.0	15.1	R		H47
37P	2018 06 16.40800	23 14 01.73	−06 03 53.4	15.0	R		H47
37P	2018 06 16.41118	23 14 02.02	−06 03 50.8	15.0	R		H47
37P	2018 06 17.34382	23 15 21.14	−05 48 19.8	13.0	R	K	I47
37P	2018 06 17.35690	23 15 22.20	−05 48 06.9	13.0	R	K	I47
37P	2018 06 17.35948	23 15 22.44	−05 48 03.6	13.0	R	K	I47
37P	2018 06 17.36895	23 15 23.21	−05 47 55.1	13.0	R	K	I47
37P	2018 06 19.05235	23 17 42.31	−05 20 30.2	15.1	N		C23
37P	2018 06 19.05697	23 17 42.78	−05 20 25.3	14.5	V		A77
37P	2018 06 19.05941	23 17 42.87	−05 20 23.9	14.9	N		C23
37P	2018 06 19.05967	23 17 42.98	−05 20 22.6	14.7	V		A77
37P	2018 06 19.06147	23 17 43.11	−05 20 20.3	14.5	V		A77
37P	2018 06 19.06316	23 17 43.25	−05 20 19.1	15.3	N		C23
37P	2018 06 20.03637	23 19 01.29	−05 04 31.5	15.7		K	215
37P	2018 06 20.03766	23 19 01.39	−05 04 30.3	15.7		K	215
37P	2018 06 20.03894	23 19 01.50	−05 04 29.1	15.7		K	215
37P	2018 06 21.72523	23 21 12.82	−04 37 18.2				Q23
37P	2018 06 21.73111	23 21 13.25	−04 37 12.8				Q23
37P	2018 06 21.73700	23 21 13.70	−04 37 07.3	13.7	T		Q23
37P	2018 06 21.75056	23 21 14.62	−04 36 54.0			K	D81
37P	2018 06 21.75208	23 21 14.79	−04 36 52.4			K	D81
37P	2018 06 21.75361	23 21 14.89	−04 36 51.2			K	D81
37P	2018 06 21.75513	23 21 15.00	−04 36 50.0	13.2	T	K	D81
37P	2018 06 22.71478	23 22 27.44	−04 21 21.7	15.0	N		Q68
37P	2018 06 22.74376	23 22 29.52	−04 20 54.5	15.0	N		Q68
37P	2018 06 24.12089	23 24 10.62	−03 59 15.7	14.9	N		J01
37P	2018 06 24.12844	23 24 11.01	−03 59 09.0	14.9	N		J01
37P	2018 06 24.13969	23 24 11.82	−03 58 58.2	14.9	N		J01
37P	2018 06 24.17986	23 24 14.69	−03 58 18.9	15.5	N	9	G40
37P	2018 06 24.18667	23 24 15.19	−03 58 12.6	15.5	N	9	G40
37P	2018 06 24.19013	23 24 15.45	−03 58 08.7	15.5	N	9	G40
37P	2018 06 25.39686	23 25 40.86	−03 39 14.8	15.4	R	K	H47
37P	2018 06 25.40546	23 25 41.43	−03 39 06.9	15.5	R	K	H47
37P	2018 06 25.41446	23 25 42.01	−03 38 58.6	15.5	R	K	H47
37P	2018 06 26.03353	23 26 24.92	−03 29 22.2	14.8	N		C23
37P	2018 06 26.03802	23 26 25.21	−03 29 18.1	15.3	N		C23
37P	2018 06 26.04176	23 26 25.49	−03 29 14.1	15.1	N		C23
37P	2018 06 26.37521	23 26 48.18	−03 24 02.4	15.3	R	K	H47
37P	2018 06 26.38083	23 26 48.54	−03 23 57.2	15.1	R	K	H47
37P	2018 06 26.39004	23 26 49.14	−03 23 48.7	15.1	R	K	H47
37P	2018 06 26.40195	23 26 49.76	−03 23 30.4	15.2	N		W96
37P	2018 06 26.41313	23 26 50.50	−03 23 20.4	15.2	N		W96
37P	2018 06 26.42511	23 26 51.23	−03 23 09.1	15.3	N		W96
37P	2018 06 27.07156	23 27 34.94	−03 13 18.9	15.5	R		B96
37P	2018 06 27.07647	23 27 35.25	−03 13 14.9	15.5	R		B96
37P	2018 06 27.07676	23 27 35.32	−03 13 13.7	16.4	N	K	160
37P	2018 06 27.07951	23 27 35.49	−03 13 11.3	16.4	N	K	160
37P	2018 06 27.08138	23 27 35.58	−03 13 10.3	15.4	R		B96
37P	2018 06 27.08227	23 27 35.64	−03 13 08.6	16.2	N	K	160
37P	2018 06 27.08628	23 27 35.82	−03 13 05.3	15.2	R		B96
37P	2018 06 29.06126	23 29 43.62	−02 42 56.5	15.4	R		B96
37P	2018 06 29.06617	23 29 43.89	−02 42 52.3	15.4	R		B96
37P	2018 06 29.07108	23 29 44.21	−02 42 48.1	15.5	R		B96
37P	2018 06 29.07598	23 29 44.49	−02 42 43.6	15.6	R		B96
37P	2018 06 29.54101	23 30 13.53	−02 35 38.3	14.8	o		T05
37P	2018 06 29.54896	23 30 13.99	−02 35 31.0	14.8	o		T05
37P	2018 06 29.55699	23 30 14.48	−02 35 23.7	14.8	o		T05
37P	2018 06 29.56492	23 30 14.94	−02 35 16.6	14.8	o		T05
37P	2018 06 30.04774	23 30 44.53	−02 28 04.4	15.3	N		C23
37P	2018 06 30.05073	23 30 44.76	−02 28 01.4	15.2	N		C23
37P	2018 06 30.05298	23 30 44.89	−02 27 59.4	15.2	N		C23
37P	2018 06 30.05357	23 30 44.94	−02 27 58.6	16.4	N	K	160
37P	2018 06 30.05637	23 30 45.06	−02 27 56.3	16.3	N	K	160
37P	2018 06 30.05919	23 30 45.23	−02 27 54.2	16.3	N	K	160
37P	2018 06 30.06074	23 30 45.37	−02 27 52.3	15.5	R		B96
37P	2018 06 30.06402	23 30 45.57	−02 27 49.4	15.5	R		B96
37P	2018 06 30.06903	23 30 45.88	−02 27 44.5	15.5	R		B96
37P	2018 06 30.07394	23 30 46.12	−02 27 40.2	15.8	R		B96
37P	2018 07 01.02821	23 31 43.35	−02 13 24.5	15.7	N	K	A71
37P	2018 07 01.03041	23 31 43.45	−02 13 22.4	16.0	N	K	A71
37P	2018 07 01.03261	23 31 43.55	−02 13 20.4	15.8	N	K	A71
37P	2018 07 01.03481	23 31 43.70	−02 13 18.5	15.9	N	K	A71
37P	2018 07 01.03701	23 31 43.83	−02 13 16.8	16.0	N	K	A71
37P	2018 07 01.03921	23 31 44.00	−02 13 14.5	15.9	N	K	A71
37P	2018 07 01.04141	23 31 44.06	−02 13 12.7	15.9	N	K	A71
37P	2018 07 01.04362	23 31 44.20	−02 13 10.9	15.9	N	K	A71
37P	2018 07 01.09899	23 31 47.36	−02 12 21.6	16.4	N	K	160
37P	2018 07 01.10165	23 31 47.50	−02 12 19.2	16.4	N	K	160
37P	2018 07 01.10432	23 31 47.65	−02 12 17.1	15.9	N	K	160
37P	2018 07 02.03699	23 32 41.73	−01 58 29.0	16.7	N	K	160
37P	2018 07 02.03983	23 32 41.88	−01 58 26.5	16.6	N	K	160
37P	2018 07 02.04238	23 32 42.00	−01 58 24.2	17.2	N	K	160
37P	2018 07 02.07183	23 32 43.70	−01 57 57.0	15.4	R		B96
37P	2018 07 02.07674	23 32 43.89	−01 57 52.9	15.8	R		B96
37P	2018 07 02.16955	23 32 49.21	−01 56 29.3	15.6	N	2	G40
37P	2018 07 02.17053	23 32 49.26	−01 56 28.6	15.4	N	2	G40
37P	2018 07 02.17152	23 32 49.29	−01 56 27.3	16.1	N	2	G40
37P	2018 07 03.07045	23 33 39.42	−01 43 20.0	15.6	R		B96
37P	2018 07 03.07373	23 33 39.54	−01 43 16.4	15.8	R		B96
37P	2018 07 03.07874	23 33 39.87	−01 43 11.6	15.8	R		B96
37P	2018 07 03.08365	23 33 40.23	−01 43 07.9	15.7	R		B96
37P	2018 07 06.02814	23 36 12.80	−01 00 50.7	15.5	N		C23
37P	2018 07 06.03263	23 36 13.02	−01 00 46.4	15.1	N		C23
37P	2018 07 06.03712	23 36 13.18	−01 00 43.3	15.5	N		C23
37P	2018 07 08.05013	23 37 47.05	−00 32 34.2	15.9	N	K	A71
37P	2018 07 08.05358	23 37 47.20	−00 32 31.5	16.0	N	K	A71
37P	2018 07 08.05704	23 37 47.32	−00 32 28.8	16.1	N	K	A71
37P	2018 07 08.06749	23 37 47.90	−00 32 20.4	15.3	N		C23
37P	2018 07 08.06899	23 37 47.96	−00 32 19.1	15.1	N		C23
37P	2018 07 08.07113	23 37 47.98	−00 32 18.4	15.5	N		C23

37P	2018 07 08.63894	23 38 13.11	−00 24 26.4			349
37P	2018 07 08.64399	23 38 13.34	−00 24 22.1			349
37P	2018 07 08.64902	23 38 13.54	−00 24 18.2	12.7	T	349
37P	2018 07 09.06017	23 38 31.01	−00 18 42.1	15.8	R	B96
37P	2018 07 09.06345	23 38 31.07	−00 18 39.3	16.1	R	B96
37P	2018 07 09.06834	23 38 31.33	−00 18 35.0	16.0	R	B96
37P	2018 07 09.07083	23 38 31.45	−00 18 33.3	15.8	N	C23
37P	2018 07 09.07331	23 38 31.53	−00 18 31.1	16.0	R	B96
37P	2018 07 09.07532	23 38 31.58	−00 18 29.8	15.6	N	C23
37P	2018 07 09.07822	23 38 31.70	−00 18 27.1	16.0	R	B96
37P	2018 07 09.07981	23 38 31.80	−00 18 26.2	15.5	N	C23
37P	2018 07 10.04634	23 39 11.73	−00 05 19.1	16.6	N	K 160
37P	2018 07 10.04912	23 39 11.83	−00 05 16.9	16.6	N	K 160
37P	2018 07 10.05191	23 39 11.92	−00 05 14.8	16.5	N	K 160
37P	2018 07 11.38510	23 40 03.54	+00 12 35.7	15.9	R	H47
37P	2018 07 11.39686	23 40 03.95	+00 12 45.4	15.8	R	H47
37P	2018 07 11.40075	23 40 04.06	+00 12 48.3	15.7	R	H47
37P	2018 07 11.40515	23 40 04.21	+00 12 51.7	15.7	R	H47
37P	2018 07 12.08293	23 40 29.11	+00 21 47.3	15.4	V	K A77
37P	2018 07 12.08846	23 40 29.28	+00 21 51.2	15.2	V	K A77
37P	2018 07 12.09280	23 40 29.45	+00 21 55.2	15.2	V	K A77
37P	2018 07 12.39952	23 40 40.21	+00 25 56.9	15.8	R	H47
37P	2018 07 12.40269	23 40 40.32	+00 25 59.2	15.9	R	H47
37P	2018 07 12.41167	23 40 40.58	+00 26 06.1	15.9	R	H47
37P	2018 07 12.41512	23 40 40.70	+00 26 08.9	15.9	R	H47
37P	2018 07 12.61804	23 40 48.07	+00 28 56.6	17.0	G	Q38
37P	2018 07 12.62346	23 40 48.33	+00 29 01.7	14.7	T	Q38
37P	2018 07 12.62839	23 40 48.52	+00 29 04.7	16.5	G	Q38
37P	2018 07 13.03248	23 41 02.08	+00 34 08.8	16.8	N	K 160
37P	2018 07 13.03530	23 41 02.17	+00 34 11.1	16.8	N	K 160
37P	2018 07 13.03812	23 41 02.28	+00 34 13.5	16.8	N	K 160
37P	2018 07 13.38444	23 41 13.69	+00 38 43.6	16.0	R	K H47
37P	2018 07 13.39146	23 41 13.90	+00 38 48.9	16.0	R	K H47
37P	2018 07 13.40108	23 41 14.20	+00 38 56.4	15.9	R	K H47
37P	2018 07 14.06921	23 41 35.70	+00 47 29.1	16.0	R	B96
37P	2018 07 14.07225	23 41 35.90	+00 47 31.4	15.5	N	J01
37P	2018 07 14.07412	23 41 35.90	+00 47 32.8	16.2	R	B96
37P	2018 07 14.07738	23 41 35.91	+00 47 34.8	16.3	R	B96
37P	2018 07 14.08066	23 41 36.03	+00 47 37.5	16.1	R	B96
37P	2018 07 14.09064	23 41 36.48	+00 47 45.9	15.5	N	J01
37P	2018 07 14.09799	23 41 36.72	+00 47 51.2	15.5	N	J01
37P	2018 07 14.37378	23 41 45.17	+00 51 23.0	16.0	R	K H47
37P	2018 07 14.38148	23 41 45.37	+00 51 28.9	15.9	R	K H47
37P	2018 07 14.38733	23 41 45.56	+00 51 34.1	15.9	R	K H47
37P	2018 07 15.03723	23 42 05.11	+00 59 43.4	15.8	N	K K02
37P	2018 07 15.04237	23 42 05.25	+00 59 47.4	15.9	N	K K02
37P	2018 07 15.04750	23 42 05.41	+00 59 51.4	15.9	N	K K02
37P	2018 07 15.07296	23 42 06.01	+01 00 10.8	16.2	R	B96
37P	2018 07 15.07623	23 42 06.15	+01 00 14.2	16.2	R	B96
37P	2018 07 15.08113	23 42 06.26	+01 00 17.4	16.3	R	B96
37P	2018 07 15.08441	23 42 06.36	+01 00 20.0	16.2	R	B96
37P	2018 07 15.37179	23 42 14.60	+01 03 57.8	16.4	R	K H47
37P	2018 07 15.38343	23 42 14.94	+01 04 06.5	16.1	R	K H47
37P	2018 07 15.39020	23 42 15.11	+01 04 11.8	15.9	R	K H47
37P	2018 07 15.99698	23 42 32.29	+01 11 47.0	15.0	N	C23
37P	2018 07 16.00147	23 42 32.29	+01 11 47.3	14.7	N	C23
37P	2018 07 16.00521	23 42 32.31	+01 11 47.8	14.8	N	C23
37P	2018 07 16.36030	23 42 41.67	+01 16 14.3	16.0	R	H47
37P	2018 07 16.36447	23 42 41.73	+01 16 17.2	16.2	R	H47
37P	2018 07 16.36765	23 42 41.85	+01 16 19.7	15.9	R	H47
37P	2018 07 16.37179	23 42 41.89	+01 16 22.9	15.6	R	H47
37P	2018 07 18.06994	23 43 23.14	+01 36 58.8	16.0	N	C23
37P	2018 07 18.07351	23 43 23.18	+01 37 02.1	16.4	R	B96
37P	2018 07 18.07443	23 43 23.23	+01 37 02.6	15.7	N	C23
37P	2018 07 18.07840	23 43 23.27	+01 37 05.0	16.1	R	B96
37P	2018 07 18.07967	23 43 23.37	+01 37 06.3	16.1	N	C23
37P	2018 07 18.08331	23 43 23.43	+01 37 09.5	16.3	R	B96
37P	2018 07 19.05673	23 43 44.07	+01 48 43.4	16.4	N	K 160
37P	2018 07 19.05799	23 43 44.07	+01 48 44.0	17.2	N	K 160
37P	2018 07 19.05925	23 43 44.08	+01 48 44.7	17.1	N	K 160
37P	2018 07 19.06074	23 43 44.13	+01 48 45.8	16.2	R	B96
37P	2018 07 19.06727	23 43 44.25	+01 48 50.2	16.2	R	B96
37P	2018 07 19.07218	23 43 44.37	+01 48 54.4	16.4	R	B96
37P	2018 07 19.66696	23 43 55.94	+01 56 03.6	15.8	N	Q68
37P	2018 07 19.68021	23 43 56.73	+01 56 04.4	14.6	N	G26
37P	2018 07 19.70708	23 43 57.06	+01 56 21.2	14.9	N	G26
37P	2018 07 19.81539	23 43 58.99	+01 57 52.6	15.7	N	Q68
37P	2018 07 20.03649	23 44 02.70	+02 00 10.3	16.9	N	K 160
37P	2018 07 20.03929	23 44 02.74	+02 00 12.4	16.8	N	K 160
37P	2018 07 20.04209	23 44 02.79	+02 00 14.6	16.8	N	K 160
37P	2018 07 20.78484	23 44 15.19	+02 08 48.3			K 367
37P	2018 07 20.78605	23 44 15.21	+02 08 49.4			K 367
37P	2018 07 20.78727	23 44 15.22	+02 08 50.2	14.4	T	K 367
37P	2018 07 20.79857	23 44 15.25	+02 09 07.8	15.9	N	Q68
37P	2018 07 20.83971	23 44 15.86	+02 09 37.0	15.8	N	K Q68
37P	2018 07 21.37762	23 44 24.42	+02 15 33.5	16.5	R	K H47
37P	2018 07 21.39343	23 44 24.64	+02 15 43.9	16.5	R	K H47
37P	2018 07 21.40145	23 44 24.73	+02 15 49.4	16.7	R	K H47
37P	2018 07 21.65417	23 44 28.76	+02 18 39.8			K D81
37P	2018 07 21.65798	23 44 28.77	+02 18 42.9			K D81
37P	2018 07 21.66526	23 44 28.72	+02 18 57.2	16.0	N	Q68
37P	2018 07 21.66561	23 44 28.82	+02 18 47.7	14.1	T	K D81
37P	2018 07 21.68134	23 44 29.44	+02 19 00.5	14.3	N	G26
37P	2018 07 21.70505	23 44 29.48	+02 19 15.8	14.2	N	G26
37P	2018 07 21.71133	23 44 29.23	+02 19 28.4	16.0	N	Q68
37P	2018 07 21.74553	23 44 29.74	+02 19 40.0	13.9	T	D95
37P	2018 07 21.74699	23 44 29.79	+02 19 41.1			D95
37P	2018 07 22.08135	23 44 34.31	+02 23 24.9	16.4	R	B96
37P	2018 07 22.08462	23 44 34.35	+02 23 28.2	16.6	R	B96
37P	2018 07 22.08788	23 44 34.41	+02 23 29.9	16.3	R	B96
37P	2018 07 22.09279	23 44 34.43	+02 23 33.1	16.5	R	B96
37P	2018 07 22.66233	23 44 41.68	+02 30 03.7	16.0	N	Q68
37P	2018 07 22.69035	23 44 42.27	+02 30 11.1	14.7	N	G26
37P	2018 07 22.70832	23 44 42.08	+02 30 34.0	16.0	N	Q68
37P	2018 07 22.71495	23 44 42.65	+02 30 31.1	14.2	N	G26
37P	2018 07 23.08947	23 44 46.54	+02 34 35.4	15.7	N	J01

37P	2018 07 23.10422	23 44 46.67	+02 34 43.9	15.8	N	J01		37P	2018 08 07.80217	23 42 54.83	+04 57 36.4	13.7	T	K 367			
37P	2018 07 23.11534	23 44 46.74	+02 34 51.8	15.8	N	J01		37P	2018 08 08.03269	23 42 49.51	+04 59 12.1	15.9	N	I81			
37P	2018 07 24.06347	23 44 55.91	+02 45 07.5	17.4	N	K 160		37P	2018 08 08.03703	23 42 49.37	+04 59 14.2	16.0	N	I81			
37P	2018 07 24.06631	23 44 55.99	+02 45 09.6	17.4	N	K 160		37P	2018 08 08.03993	23 42 49.30	+04 59 15.4	15.9	N	I81			
37P	2018 07 24.06913	23 44 55.91	+02 45 11.5	16.9	N	K 160		37P	2018 08 08.64076	23 42 33.93	+05 03 29.2	14.3	T	Q11			
37P	2018 07 24.39331	23 44 58.53	+02 48 41.1	15.9	R	K H47		37P	2018 08 08.64934	23 42 33.69	+05 03 32.7			Q11			
37P	2018 07 24.40289	23 44 58.60	+02 48 47.4	15.9	R	K H47		37P	2018 08 09.00607	23 42 24.07	+05 05 56.5	16.0	N	I81			
37P	2018 07 24.41111	23 44 58.62	+02 48 52.5	15.9	R	K H47		37P	2018 08 09.01041	23 42 23.97	+05 05 58.6	15.9	N	I81			
37P	2018 07 24.70756	23 45 00.96	+02 52 10.6	16.0	N	Q68		37P	2018 08 09.01330	23 42 23.83	+05 05 58.9	15.8	N	I81			
37P	2018 07 24.74916	23 45 01.13	+02 52 37.2	16.2	N	Q68		37P	2018 08 09.10375	23 42 21.21	+05 06 37.9	17.3	G	K A77			
37P	2018 07 25.57653	23 45 06.26	+03 01 10.1	15.9	o	T08		37P	2018 08 09.10881	23 42 21.04	+05 06 40.1	17.2	G	K A77			
37P	2018 07 25.58670	23 45 06.30	+03 01 16.6	15.9	o	T08		37P	2018 08 09.11440	23 42 20.85	+05 06 42.0	17.4	G	K A77			
37P	2018 07 25.59687	23 45 06.33	+03 01 23.1	16.0	o	T08		37P	2018 08 10.59441	23 41 38.05	+05 16 28.6	16.1	o	T08			
37P	2018 07 25.60764	23 45 06.32	+03 01 29.8	15.9	o	T08		37P	2018 08 10.60508	23 41 37.59	+05 16 31.9	16.5	o	T08			
37P	2018 07 25.69485	23 45 06.92	+03 02 31.9	16.2	R	¡ Q62		37P	2018 08 10.61625	23 41 37.24	+05 16 36.8	16.1	o	T08			
37P	2018 07 25.74620	23 45 07.00	+03 03 03.4	16.3	R	¡ Q62		37P	2018 08 10.62692	23 41 36.89	+05 16 40.6	16.2	o	T08			
37P	2018 07 27.05043	23 45 11.46	+03 16 11.6	16.3	N	K L27		37P	2018 08 11.04950	23 41 24.24	+05 19 16.0	16.7	N	K02			
37P	2018 07 27.06689	23 45 11.45	+03 16 21.3	16.3	N	K L27		37P	2018 08 11.05546	23 41 24.06	+05 19 17.9	16.9	N	K02			
37P	2018 07 27.08331	23 45 11.47	+03 16 31.3	16.3	N	K L27		37P	2018 08 11.06318	23 41 23.80	+05 19 21.2	16.8	N	K02			
37P	2018 07 28.55597	23 45 11.44	+03 31 08.0	16.0	o	T08		37P	2018 08 11.09497	23 41 22.78	+05 19 33.6	16.3	N	J01			
37P	2018 07 28.56458	23 45 11.39	+03 31 13.0	15.9	o	T08		37P	2018 08 11.10940	23 41 22.25	+05 19 39.5	16.3	N	J01			
37P	2018 07 28.57398	23 45 11.34	+03 31 18.4	16.1	o	T08		37P	2018 08 11.12391	23 41 21.80	+05 19 44.9	16.3	N	J01			
37P	2018 07 28.58477	23 45 11.31	+03 31 24.9	15.9	o	T08		37P	2018 08 11.19960	23 41 19.67	+05 20 22.6	17.0	N	W96			
37P	2018 08 04.05742	23 44 12.19	+04 29 04.2	17.5	N	K 160		37P	2018 08 11.23587	23 41 18.46	+05 20 36.0	17.0	N	W96			
37P	2018 08 04.06022	23 44 12.09	+04 29 05.5	17.4	N	K 160		37P	2018 08 11.99664	23 40 53.78	+05 25 03.0	17.2	N	K97			
37P	2018 08 04.06303	23 44 12.08	+04 29 07.1	17.4	N	K 160		37P	2018 08 11.99815	23 40 53.72	+05 25 03.7	17.3	N	K97			
37P	2018 08 04.81367	23 43 58.91	+04 35 09.0	14.6	R	D29		37P	2018 08 12.01008	23 40 53.31	+05 25 07.9	17.2	N	K97			
37P	2018 08 04.82781	23 43 58.62	+04 35 15.5	14.6	R	D29		37P	2018 08 12.02946	23 40 52.61	+05 25 14.9	17.3	N	K97			
37P	2018 08 04.84196	23 43 58.39	+04 35 22.4	14.8	R	D29		37P	2018 08 12.61478	23 40 32.91	+05 28 51.9	16.9	N	Q68			
37P	2018 08 05.99771	23 43 36.16	+04 44 17.8	16.4	N	C23		37P	2018 08 12.78393	23 40 26.61	+05 29 52.2	17.0	N	Q68			
37P	2018 08 05.99920	23 43 36.09	+04 44 18.0	16.5	N	C23		37P	2018 08 13.03598	23 40 18.17	+05 31 06.9	17.4	N	K 160			
37P	2018 08 05.99995	23 43 36.20	+04 44 19.4	16.5	N	C23		37P	2018 08 13.03879	23 40 18.04	+05 31 07.8	17.9	N	K 160			
37P	2018 08 06.00070	23 43 36.15	+04 44 18.8	16.6	N	C23		37P	2018 08 13.04159	23 40 17.95	+05 31 08.7	17.8	N	K 160			
37P	2018 08 06.00145	23 43 36.11	+04 44 20.0	16.5	N	C23		37P	2018 08 13.53271	23 40 00.423	+05 33 57.39	17.9	w	F51			
37P	2018 08 06.02128	23 43 35.69	+04 44 29.6	17.8	N	K 160		37P	2018 08 13.54477	23 39 59.942	+05 34 01.45	17.8	w	F51			
37P	2018 08 06.02402	23 43 35.61	+04 44 30.9	17.8	N	K 160		37P	2018 08 13.55677	23 39 59.469	+05 34 05.36	17.8	w	F51			
37P	2018 08 06.02677	23 43 35.52	+04 44 32.3	17.8	N	K 160		37P	2018 08 13.56887	23 39 58.988	+05 34 09.39	17.9	w	F51			
37P	2018 08 06.06359	23 43 34.68	+04 44 47.5	16.3	N	K K02		37P	2018 08 13.67028	23 39 55.55	+05 34 41.3	14.4	T	349			
37P	2018 08 06.07042	23 43 34.52	+04 44 50.7	16.6	N	K K02		37P	2018 08 13.67634	23 39 55.28	+05 34 43.9			349			
37P	2018 08 06.07816	23 43 34.39	+04 44 54.9	16.7	N	K K02		37P	2018 08 14.56982	23 39 21.90	+05 39 33.8	17.1	o	T08			
37P	2018 08 06.08377	23 43 34.42	+04 44 59.8	16.5	N	J22		37P	2018 08 14.58053	23 39 21.52	+05 39 37.1	16.5	o	T08			
37P	2018 08 06.08598	23 43 34.35	+04 45 00.6	16.5	N	J22		37P	2018 08 14.59175	23 39 21.00	+05 39 40.5	16.6	o	T08			
37P	2018 08 06.08818	23 43 34.34	+04 45 01.8	16.5	N	J22		37P	2018 08 14.60242	23 39 20.60	+05 39 44.5	17.3	o	T08			
37P	2018 08 06.60386	23 43 22.83	+04 48 55.5	16.3	o	T08		37P	2018 08 15.33408	23 38 52.35	+05 43 37.8	17.5	N	3W88			
37P	2018 08 06.61457	23 43 22.56	+04 49 00.3	16.3	o	T08		37P	2018 08 15.33761	23 38 52.25	+05 43 38.5			3W88			
37P	2018 08 06.62578	23 43 22.28	+04 49 05.1	16.2	o	T08		37P	2018 08 15.40152	23 38 49.71	+05 43 48.6	16.6	R	K H47			
37P	2018 08 07.02374	23 43 13.71	+04 51 58.0	17.3	N	K 160		37P	2018 08 15.40962	23 38 49.36	+05 43 50.9	17.2	R	K H47			
37P	2018 08 07.02654	23 43 13.64	+04 51 59.3	17.5	N	K 160		37P	2018 08 15.41574	23 38 49.10	+05 43 52.9	16.8	R	K H47			
37P	2018 08 07.02932	23 43 13.56	+04 52 00.6	17.2	N	K 160		37P	2018 08 16.03342	23 38 24.72	+05 46 54.4	17.9	N	K 160			
37P	2018 08 07.03407	23 43 13.42	+04 52 01.4	16.3	N	C23		37P	2018 08 16.03619	23 38 24.60	+05 46 55.2	18.0	N	K 160			
37P	2018 08 07.04156	23 43 13.32	+04 52 04.8	16.2	N	C23		37P	2018 08 16.03894	23 38 24.49	+05 46 56.0	18.0	N	K 160			
37P	2018 08 07.04830	23 43 13.14	+04 52 08.1	16.2	N	C23		37P	2018 08 16.06346	23 38 23.46	+05 47 03.3	16.5	N	J01			
37P	2018 08 07.79933	23 42 54.92	+04 57 35.2			K 367		37P	2018 08 16.07789	23 38 22.91	+05 47 06.7	16.5	N	J01			

37P	2018 08 16.09230	23 38 22.27	+05 47 11.4	16.6	N	J01
37P	2018 08 16.10684	23 38 21.62	+05 47 16.1	16.7	N	I72
37P	2018 08 16.15468	23 38 19.57	+05 47 29.7	16.6	N	I72
37P	2018 08 16.15628	23 38 19.49	+05 47 30.1	16.6	N	I72
37P	2018 08 16.60518	23 38 01.41	+05 49 48.8	17.1	N	Q68
37P	2018 08 16.67501	23 37 58.32	+05 50 08.8	17.0	N	Q68
37P	2018 08 17.02097	23 37 43.79	+05 51 32.3	17.5	N	C36
37P	2018 08 17.02208	23 37 43.76	+05 51 32.7	17.3	N	C36
37P	2018 08 17.02446	23 37 43.86	+05 51 33.0	17.2	N	KK02
37P	2018 08 17.02655	23 37 43.52	+05 51 33.9	17.3	N	C36
37P	2018 08 17.02878	23 37 43.47	+05 51 34.0	16.9	N	C36
37P	2018 08 17.02991	23 37 43.42	+05 51 34.5	16.7	N	C36
37P	2018 08 17.03041	23 37 43.57	+05 51 35.1	17.0	N	KK02
37P	2018 08 17.03214	23 37 43.34	+05 51 34.9	17.1	N	C36
37P	2018 08 17.03721	23 37 43.27	+05 51 36.4	16.8	N	KK02
37P	2018 08 17.07369	23 37 41.60	+05 51 48.2	16.9	N	K 160
37P	2018 08 17.07649	23 37 41.47	+05 51 49.0	16.9	N	K 160
37P	2018 08 17.07928	23 37 41.34	+05 51 49.7	17.0	N	K 160
37P	2018 08 17.29179	23 37 32.52	+05 52 48.8	16.9	R	H47
37P	2018 08 17.29584	23 37 32.37	+05 52 49.8	16.8	R	H47
37P	2018 08 17.29954	23 37 32.18	+05 52 51.1	16.7	R	H47
37P	2018 08 17.30747	23 37 31.84	+05 52 53.4	16.9	R	H47
37P	2018 08 17.60207	23 37 19.29	+05 54 21.3	17.0	N	Q68
37P	2018 08 17.65143	23 37 17.13	+05 54 23.6			D95
37P	2018 08 17.65216	23 37 17.09	+05 54 24.0			D95
37P	2018 08 17.65362	23 37 17.03	+05 54 24.3	13.5	T	D95
37P	2018 08 17.68018	23 37 15.70	+05 54 42.3	17.0	N	Q68
37P	2018 08 17.70214	23 37 15.11	+05 54 37.3	15.3	N	G26
37P	2018 08 17.72969	23 37 13.89	+05 54 46.3	14.9	N	G26
37P	2018 08 17.73304	23 37 13.37	+05 54 45.3	16.2	T	Q23
37P	2018 08 17.73789	23 37 13.12	+05 54 46.5			Q23
37P	2018 08 17.74281	23 37 12.91	+05 54 47.6			Q23
37P	2018 08 17.90051	23 37 06.45	+05 55 28.0	16.0	N	585
37P	2018 08 17.90122	23 37 06.41	+05 55 28.4	16.1	N	585
37P	2018 08 17.90192	23 37 06.38	+05 55 28.8	16.3	N	585
37P	2018 08 17.90334	23 37 06.29	+05 55 28.7	16.0	N	585
37P	2018 08 17.90405	23 37 06.29	+05 55 29.0	16.3	N	585
37P	2018 08 17.90476	23 37 06.28	+05 55 29.3	16.3	N	585
37P	2018 08 17.90547	23 37 06.21	+05 55 29.3	16.2	N	585
37P	2018 08 17.90622	23 37 06.20	+05 55 29.4	16.4	N	585
37P	2018 08 17.90905	23 37 06.04	+05 55 30.6	16.3	N	585
37P	2018 08 17.90976	23 37 06.03	+05 55 30.6	16.3	N	585
37P	2018 08 17.91047	23 37 05.97	+05 55 30.5	16.2	N	585
37P	2018 08 17.91118	23 37 05.91	+05 55 30.3	16.4	N	585
37P	2018 08 17.91189	23 37 05.99	+05 55 31.2	16.4	N	585
37P	2018 08 17.91259	23 37 05.87	+05 55 31.1	16.4	N	585
37P	2018 08 17.91330	23 37 05.87	+05 55 32.0	16.3	N	585
37P	2018 08 17.91400	23 37 05.85	+05 55 31.6	16.3	N	585
37P	2018 08 17.91472	23 37 05.79	+05 55 31.8	16.3	N	585
37P	2018 08 17.91543	23 37 05.72	+05 55 32.1	16.2	N	585
37P	2018 08 17.91755	23 37 05.73	+05 55 32.6	16.3	N	585
37P	2018 08 17.91826	23 37 05.61	+05 55 33.1	16.8	N	585
37P	2018 08 17.91897	23 37 05.61	+05 55 32.8	16.5	N	585
37P	2018 08 17.97519	23 37 03.21	+05 55 47.4	16.5	N	C23
37P	2018 08 17.98162	23 37 02.91	+05 55 48.7	16.8	N	C23
37P	2018 08 17.98884	23 37 02.51	+05 55 50.7	16.8	N	C23
37P	2018 08 18.05184	23 36 59.70	+05 56 06.8	16.3	R	B96
37P	2018 08 18.05347	23 36 59.62	+05 56 06.9	17.3	R	B96
37P	2018 08 18.05512	23 36 59.51	+05 56 07.6	17.3	R	B96
37P	2018 08 18.54633	23 36 37.69	+05 58 16.2	17.0	o	T08
37P	2018 08 18.55722	23 36 37.12	+05 58 18.4	16.6	o	T08
37P	2018 08 18.56761	23 36 36.66	+05 58 21.5	16.6	o	T08
37P	2018 08 18.57855	23 36 36.15	+05 58 23.7	16.7	o	T08
37P	2018 08 19.06495	23 36 14.47	+06 00 19.6	17.0	N	K 160
37P	2018 08 19.06745	23 36 14.36	+06 00 20.3	17.3	N	K 160
37P	2018 08 19.06995	23 36 14.25	+06 00 21.0	17.5	N	K 160
37P	2018 08 19.59613	23 35 50.49	+06 02 36.7	17.1	N	Q68
37P	2018 08 19.65694	23 35 47.95	+06 02 39.5	15.0	N	G26
37P	2018 08 19.67822	23 35 46.88	+06 02 46.7	15.5	N	G26
37P	2018 08 19.68795	23 35 45.96	+06 02 58.1	17.0	N	Q68
37P	2018 08 20.06696	23 35 28.55	+06 04 12.8	16.6	N	J01
37P	2018 08 20.07417	23 35 28.13	+06 04 14.4	16.6	N	J01
37P	2018 08 20.08859	23 35 27.45	+06 04 17.4	16.5	N	J01
37P	2018 08 20.33510	23 35 15.65	+06 05 22.0	17.0	N	W96
37P	2018 08 20.35802	23 35 14.47	+06 05 27.1	17.1	N	W96
37P	2018 08 20.55086	23 35 05.52	+06 06 02.4	17.4	o	T05
37P	2018 08 20.56179	23 35 04.97	+06 06 05.0	16.6	o	T05
37P	2018 08 20.57200	23 35 04.47	+06 06 06.7	16.7	o	T05
37P	2018 08 20.58273	23 35 03.92	+06 06 08.9	16.5	o	T05
37P	2018 08 21.05153	23 34 41.79	+06 07 45.2	17.1	N	K 160
37P	2018 08 21.05407	23 34 41.68	+06 07 46.0	17.7	N	K 160
37P	2018 08 21.05661	23 34 41.53	+06 07 46.3	17.8	N	K 160
37P	2018 08 21.06360	23 34 41.23	+06 07 47.2	17.9	V	K 215
37P	2018 08 21.06491	23 34 41.16	+06 07 47.4	17.9	V	K 215
37P	2018 08 21.06622	23 34 41.05	+06 07 47.4	18.0	V	K 215
37P	2018 08 21.47219	23 34 21.609	+06 09 14.44	17.9	i	F51
37P	2018 08 21.48572	23 34 20.899	+06 09 17.16	17.9	i	F51
37P	2018 08 21.49924	23 34 20.198	+06 09 19.86	17.7	i	F51
37P	2018 08 21.51275	23 34 19.490	+06 09 22.59	17.7	i	F51
37P	2018 08 21.96109	23 33 57.88	+06 10 48.2	15.6	R	619
37P	2018 08 22.03032	23 33 54.19	+06 11 01.0	15.5	R	619
37P	2018 08 24.38303	23 31 54.69	+06 17 49.2	16.6	R	H47
37P	2018 08 24.38630	23 31 54.54	+06 17 50.5	16.6	R	H47
37P	2018 08 29.09125	23 27 39.58	+06 26 59.5	17.2	N	K 160
37P	2018 08 29.09365	23 27 39.48	+06 27 01.4	17.8	N	K 160
37P	2018 08 29.09604	23 27 39.33	+06 27 02.1	17.6	N	K 160
37P	2018 08 30.53265	23 26 18.13	+06 28 45.7	16.7	o	T08
37P	2018 08 30.54269	23 26 17.58	+06 28 47.0	16.8	o	T08
37P	2018 08 30.55268	23 26 16.93	+06 28 47.0	17.2	o	T08
37P	2018 08 30.56260	23 26 16.33	+06 28 47.4	16.6	o	T08
37P	2018 08 31.12967	23 25 44.19	+06 29 14.8	16.3	N	I81
37P	2018 08 31.13401	23 25 43.94	+06 29 14.8	16.3	N	I81
37P	2018 08 31.13691	23 25 43.74	+06 29 15.1	16.5	N	I81
37P	2018 08 31.89065	23 25 00.91	+06 29 51.0	17.2	R	B96
37P	2018 08 31.89392	23 25 00.77	+06 29 51.1	17.3	R	B96
37P	2018 08 31.89883	23 25 00.49	+06 29 51.2	16.9	R	B96

37P	2018 08 31.91585	23 24 59.52	+06 29 51.5	16.5	N		C23
37P	2018 08 31.92163	23 24 59.25	+06 29 51.1	17.0	N		C23
37P	2018 08 31.92740	23 24 58.76	+06 29 52.5	16.5	N		C23
37P	2018 09 01.00523	23 24 54.11	+06 29 54.9	17.1	N	K	K02
37P	2018 09 01.01032	23 24 53.85	+06 29 54.9	16.7	N	K	K02
37P	2018 09 01.01541	23 24 53.54	+06 29 55.7	17.2	N	K	K02
37P	2018 09 01.06281	23 24 50.74	+06 29 58.9	17.5	N	K	A77
37P	2018 09 01.06935	23 24 50.30	+06 29 59.1	17.6	N	K	A77
37P	2018 09 01.07573	23 24 49.96	+06 29 59.1	17.5	N	K	A77
37P	2018 09 01.39803	23 24 31.22	+06 30 09.4	14.7	G		703
37P	2018 09 01.40348	23 24 30.79	+06 30 08.3	14.5	G		703
37P	2018 09 01.40892	23 24 30.48	+06 30 08.5	14.5	G		703
37P	2018 09 01.41436	23 24 30.18	+06 30 08.3	14.4	G		703
37P	2018 09 01.88103	23 24 03.77	+06 30 23.8	17.2	R		B96
37P	2018 09 01.88593	23 24 03.47	+06 30 24.1	17.1	R		B96
37P	2018 09 01.88920	23 24 03.35	+06 30 24.4	17.4	R		B96
37P	2018 09 01.90669	23 24 02.27	+06 30 25.0	17.2	N		K97
37P	2018 09 01.91605	23 24 01.69	+06 30 25.3	17.2	N		K97
37P	2018 09 01.93796	23 24 00.36	+06 30 25.9	17.2	N		K97
37P	2018 09 02.11985	23 23 50.00	+06 30 30.4	17.1	V		750
37P	2018 09 02.14141	23 23 48.76	+06 30 30.6	16.3	V		750
37P	2018 09 02.87913	23 23 05.93	+06 30 44.1	17.2	R		B96
37P	2018 09 02.88240	23 23 05.72	+06 30 44.2	17.2	R		B96
37P	2018 09 02.88730	23 23 05.39	+06 30 44.4	16.9	R		B96
37P	2018 09 03.62791	23 22 22.64	+06 30 53.6	15.7	N		G26
37P	2018 09 03.65701	23 22 20.77	+06 30 54.2	15.7	N		G26
37P	2018 09 03.94597	23 22 03.87	+06 30 54.2	17.1	N	9	G40
37P	2018 09 03.95165	23 22 03.52	+06 30 53.9	17.1	N	9	G40
37P	2018 09 03.95728	23 22 03.19	+06 30 53.8	17.0	N	9	G40
37P	2018 09 04.09773	23 21 54.54	+06 30 53.6	16.7	N		J22
37P	2018 09 04.10100	23 21 54.40	+06 30 53.9	16.7	N		J22
37P	2018 09 04.10209	23 21 54.29	+06 30 54.1	16.7	N		J22
37P	2018 09 04.88185	23 21 09.26	+06 30 45.8	15.7	V	K	C43
37P	2018 09 04.89708	23 21 08.50	+06 30 47.8	15.9	V	K	C43
37P	2018 09 04.89755	23 21 08.19	+06 30 44.8	17.3	N		K97
37P	2018 09 04.91917	23 21 06.89	+06 30 44.9	17.3	N		K97
37P	2018 09 04.92535	23 21 06.50	+06 30 44.7	17.3	N		K97
37P	2018 09 05.95330	23 20 06.47	+06 30 23.7	16.4	N		I81
37P	2018 09 05.95765	23 20 06.21	+06 30 23.7	16.4	N		I81
37P	2018 09 05.96054	23 20 06.04	+06 30 23.7	16.5	N		I81
37P	2018 09 05.99932	23 20 03.63	+06 30 24.3	17.2	N	K	160
37P	2018 09 06.00175	23 20 03.48	+06 30 24.0	17.8	N	K	160
37P	2018 09 06.00435	23 20 03.31	+06 30 24.0	17.3	N	K	160
37P	2018 09 06.63285	23 19 27.17	+06 30 08.2	15.5	N		G26
37P	2018 09 06.66562	23 19 25.00	+06 30 05.2	15.8	N		G26
37P	2018 09 07.59354	23 18 31.16	+06 29 27.0	15.1	N		G26
37P	2018 09 07.59479	23 18 30.80	+06 29 39.7	17.8	G		Q38
37P	2018 09 07.59771	23 18 30.69	+06 29 38.1	16.8	G		Q38
37P	2018 09 07.60014	23 18 30.42	+06 29 37.6	17.1	G		Q38
37P	2018 09 07.63652	23 18 28.79	+06 29 24.1	15.7	N		G26
37P	2018 09 08.53020	23 17 37.03	+06 28 42.3	15.6	N		G26
37P	2018 09 08.58208	23 17 34.06	+06 28 34.8	15.8	N		G26
37P	2018 09 08.77038	23 17 22.77	+06 28 25.7	18.5	N		C97
37P	2018 09 08.77340	23 17 22.78	+06 28 28.6	18.1	N		C97
37P	2018 09 08.82814	23 17 19.64	+06 28 22.4			K	107
37P	2018 09 08.85780	23 17 17.87	+06 28 21.6			K	107
37P	2018 09 08.88970	23 17 15.99	+06 28 18.9			K	107
37P	2018 09 08.89600	23 17 15.60	+06 28 17.8	17.2	N		K97
37P	2018 09 08.91460	23 17 14.46	+06 28 16.6	17.3	N		K97
37P	2018 09 08.92098	23 17 14.15	+06 28 15.4	16.4	N		I81
37P	2018 09 08.92842	23 17 13.64	+06 28 15.9	17.3	N		K97
37P	2018 09 08.94232	23 17 12.82	+06 28 15.2	17.4	N		K97
37P	2018 09 08.94400	23 17 12.75	+06 28 14.2	16.3	N		I81
37P	2018 09 08.94835	23 17 12.52	+06 28 14.0	16.3	N		I81
37P	2018 09 09.01010	23 17 08.74	+06 28 11.7	17.5	N	K	160
37P	2018 09 09.01259	23 17 08.59	+06 28 11.5	17.5	N	K	160
37P	2018 09 09.01507	23 17 08.44	+06 28 11.5	17.7	N	K	160
37P	2018 09 09.50115	23 16 40.33	+06 27 43.4	16.7	o		T05
37P	2018 09 09.51185	23 16 39.69	+06 27 42.7	16.7	o		T05
37P	2018 09 09.52205	23 16 39.08	+06 27 42.0	16.7	o		T05
37P	2018 09 09.53274	23 16 38.42	+06 27 41.0	16.5	o		T05
37P	2018 09 10.01671	23 16 10.86	+06 27 05.1	17.2	N	K	160
37P	2018 09 10.01851	23 16 10.77	+06 27 05.0	17.8	N	K	160
37P	2018 09 10.02032	23 16 10.65	+06 27 04.8	17.7	N	K	160
37P	2018 09 10.02578	23 16 10.44	+06 27 03.7	16.6	N		J01
37P	2018 09 10.03297	23 16 09.99	+06 27 04.0	16.6	N		J01
37P	2018 09 10.04017	23 16 09.59	+06 27 03.3	16.6	N		J01
37P	2018 09 10.56707	23 15 40.00	+06 26 24.1	15.8	N		G26
37P	2018 09 10.63719	23 15 35.86	+06 26 19.4	16.1	N		G26
37P	2018 09 10.96488	23 15 16.99	+06 25 53.0	17.8	N	K	160
37P	2018 09 10.96694	23 15 16.87	+06 25 52.8	17.8	N	K	160
37P	2018 09 10.96900	23 15 16.72	+06 25 52.3	17.8	N	K	160
37P	2018 09 10.98113	23 15 16.02	+06 25 51.0	17.3	N		K97
37P	2018 09 10.98267	23 15 15.93	+06 25 50.8	17.3	N		K97
37P	2018 09 10.99195	23 15 15.37	+06 25 50.0	17.3	N		K97
37P	2018 09 11.00584	23 15 14.55	+06 25 48.7	17.2	N		K97
37P	2018 09 11.07184	23 15 10.73	+06 25 44.1	16.8	N		J22
37P	2018 09 11.07773	23 15 10.50	+06 25 43.7	16.8	N		J22
37P	2018 09 11.49264	23 14 46.89	+06 25 11.9	17.2	o		T08
37P	2018 09 11.50328	23 14 46.24	+06 25 11.4	16.7	o		T08
37P	2018 09 11.51345	23 14 45.65	+06 25 10.2	16.7	o		T08
37P	2018 09 11.52409	23 14 45.02	+06 25 09.0	16.8	o		T08
37P	2018 09 11.93194	23 14 22.42	+06 24 29.5	16.7	R		113
37P	2018 09 11.94389	23 14 21.80	+06 24 28.1	16.2	N		I81
37P	2018 09 11.94816	23 14 21.43	+06 24 27.3	16.6	R		113
37P	2018 09 11.94823	23 14 21.53	+06 24 27.3	16.2	N		I81
37P	2018 09 11.95113	23 14 21.36	+06 24 26.7	16.1	N		I81
37P	2018 09 11.95943	23 14 20.81	+06 24 26.9	16.6	R		113
37P	2018 09 12.50776	23 13 50.27	+06 23 48.3	17.1	N		Q68
37P	2018 09 12.54708	23 13 47.99	+06 23 43.7	17.0	N		Q68
37P	2018 09 12.73147	23 13 37.94	+06 23 17.3	17.8	N		C97
37P	2018 09 12.73300	23 13 37.83	+06 23 18.3	17.6	N		C97
37P	2018 09 12.73453	23 13 37.88	+06 23 18.7	18.1	N		C97
37P	2018 09 14.02398	23 12 26.28	+06 21 03.2	16.8	N		C23
37P	2018 09 14.02922	23 12 25.99	+06 21 01.9	16.4	N		C23
37P	2018 09 14.03371	23 12 25.78	+06 21 03.2	16.9	N		C23

37P	2018 09 14.96531	23 11 35.45	+06 19 17.4	16.5	N	I81
37P	2018 09 14.96965	23 11 35.21	+06 19 17.0	16.5	N	I81
37P	2018 09 14.97255	23 11 35.05	+06 19 16.6	16.6	N	I81
37P	2018 09 15.26628	23 11 19.51	+06 18 43.8	15.5	G	703
37P	2018 09 15.27199	23 11 19.02	+06 18 44.4			703
37P	2018 09 15.28823	23 11 17.96	+06 18 42.6			703
37P	2018 09 15.46782	23 11 08.31	+06 18 23.1	16.8	o	T08
37P	2018 09 15.47795	23 11 07.73	+06 18 22.2	16.7	o	T08
37P	2018 09 15.48805	23 11 07.16	+06 18 20.4	16.7	o	T08
37P	2018 09 15.49812	23 11 06.59	+06 18 19.6	16.8	o	T08
37P	2018 09 15.86809	23 10 47.42	+06 17 31.7	17.7	V	K40
37P	2018 09 15.87818	23 10 46.82	+06 17 30.6	17.3	V	K40
37P	2018 09 17.46585	23 09 23.70	+06 14 13.1	17.6	o	T05
37P	2018 09 17.47592	23 09 23.16	+06 14 11.8	16.7	o	T05
37P	2018 09 17.48336	23 09 23.28	+06 14 08.8			K 367
37P	2018 09 17.48592	23 09 22.61	+06 14 10.3	16.8	o	T05
37P	2018 09 17.48620	23 09 23.16	+06 14 08.2	15.2	T	K 367
37P	2018 09 17.49583	23 09 22.06	+06 14 08.9	16.7	o	T05
37P	2018 09 18.73311	23 08 19.94	+06 11 21.6	17.8	N	C97
37P	2018 09 18.73468	23 08 19.87	+06 11 21.1	17.8	N	C97
37P	2018 09 18.82615	23 08 15.29	+06 11 05.5	18.4	V	K C47
37P	2018 09 18.82984	23 08 15.10	+06 11 04.8	18.0	V	K C47
37P	2018 09 18.83353	23 08 14.93	+06 11 04.1	18.5	V	K C47
37P	2018 09 18.83722	23 08 14.74	+06 11 03.8	18.6	V	K C47
37P	2018 09 18.84091	23 08 14.55	+06 11 03.3	18.2	V	K C47
37P	2018 09 18.84460	23 08 14.33	+06 11 02.4	18.6	V	K C47
37P	2018 09 18.84939	23 08 14.09	+06 11 02.3	18.2	V	K C47
37P	2018 09 19.46421	23 07 43.33	+06 09 39.2	16.8	o	T08
37P	2018 09 19.47424	23 07 42.84	+06 09 37.7	17.3	o	T08
37P	2018 09 19.48433	23 07 42.33	+06 09 36.1	16.8	o	T08
37P	2018 09 19.49431	23 07 41.77	+06 09 34.5	16.9	o	T08

38P/Stephan-Oterma

38P	2018 05 25.80868	01 22 52.06	−07 19 52.4			1 Q62
38P	2018 05 25.81148	01 22 52.37	−07 19 51.0	16.4	w	1 Q62
38P	2018 06 18.41012	02 05 28.18	−03 37 30.1	16.4	R	K I47
38P	2018 06 18.41843	02 05 29.10	−03 37 25.8	16.4	R	K I47
38P	2018 06 18.42674	02 05 30.02	−03 37 21.2	16.4	R	K I47
38P	2018 06 19.20865	02 06 57.95	−03 30 09.2	16.1	T	20G40
38P	2018 06 19.21052	02 06 58.16	−03 30 08.7	15.8	T	20G40
38P	2018 06 19.21240	02 06 58.37	−03 30 07.1	16.0	T	20G40
38P	2018 06 27.20278	02 22 09.09	−02 16 25.5	16.6	N	9 G40
38P	2018 06 27.20846	02 22 09.75	−02 16 22.7	16.4	N	9 G40
38P	2018 06 27.21424	02 22 10.35	−02 16 19.4	16.4	N	9 G40
38P	2018 07 08.74347	02 44 47.36	−00 31 41.3			349
38P	2018 07 08.75284	02 44 48.43	−00 31 37.0	14.7	T	349
38P	2018 07 13.76050	02 54 54.11	+00 13 08.4	14.7	T	349
38P	2018 07 13.76755	02 54 54.98	+00 13 11.8			349
38P	2018 07 18.73863	03 05 06.14	+00 57 10.2			349
38P	2018 07 18.74461	03 05 06.91	+00 57 13.9	14.5	T	349
38P	2018 07 19.78510	03 07 16.02	+01 06 27.4	15.9	N	K Q68
38P	2018 07 19.82545	03 07 20.97	+01 06 49.0	15.9	N	K Q68
38P	2018 07 20.76528	03 09 18.15	+01 14 59.4			K 367
38P	2018 07 20.76811	03 09 18.50	+01 15 01.2	14.8	T	K 367
38P	2018 07 22.77902	03 13 30.12	+01 32 41.6	15.8	N	Q68
38P	2018 07 22.79571	03 13 32.22	+01 32 51.3	15.8	N	Q68
38P	2018 07 24.12458	03 16 19.55	+01 44 22.1	16.4	N	K 160
38P	2018 07 24.12711	03 16 19.86	+01 44 23.4	16.5	N	K 160
38P	2018 07 24.12963	03 16 20.09	+01 44 24.6	16.6	N	K 160
38P	2018 07 24.77395	03 17 41.53	+01 50 06.5	15.7	N	Q68
38P	2018 07 24.79057	03 17 43.63	+01 50 15.4	15.8	N	Q68
38P	2018 07 26.10913	03 20 30.71	+02 01 38.2	15.6	V	K A77
38P	2018 07 26.11608	03 20 31.64	+02 01 41.7	15.7	V	K A77
38P	2018 07 26.12308	03 20 32.56	+02 01 45.8	15.8	V	K A77
38P	2018 07 26.59474	03 21 32.48	+02 05 52.7	15.4	o	T05
38P	2018 07 26.60409	03 21 33.66	+02 05 57.9	15.3	o	T05
38P	2018 07 26.61197	03 21 34.66	+02 06 01.8	15.3	o	T05
38P	2018 07 26.61694	03 21 35.28	+02 06 04.4	16.1	o	T05
38P	2018 07 30.21319	03 29 15.50	+02 37 12.2	15.5	N	9 G40
38P	2018 07 30.22184	03 29 16.60	+02 37 16.9	15.9	N	9 G40
38P	2018 07 30.81674	03 30 33.18	+02 42 29.3	16.3	N	N Q62
38P	2018 07 30.82413	03 30 34.12	+02 42 33.1	16.4	N	N Q62
38P	2018 07 31.74267	03 32 32.85	+02 50 22.9	14.2	T	349
38P	2018 07 31.74973	03 32 33.78	+02 50 26.3			349
38P	2018 08 01.11308	03 33 20.70	+02 53 33.5	15.4	N	K 160
38P	2018 08 01.11574	03 33 21.07	+02 53 35.5	16.1	N	K 160
38P	2018 08 01.11841	03 33 21.44	+02 53 35.3	16.3	N	K 160
38P	2018 08 03.72110	03 39 00.08	+03 15 58.4	14.3	T	D95
38P	2018 08 03.72329	03 39 00.38	+03 15 59.8			D95
38P	2018 08 03.72988	03 39 01.25	+03 16 03.0			D95
38P	2018 08 04.08947	03 39 48.19	+03 19 07.4	16.1	R	K 215
38P	2018 08 04.09075	03 39 48.36	+03 19 08.0	16.1	R	K 215
38P	2018 08 04.09204	03 39 48.57	+03 19 08.5	16.2	R	K 215
38P	2018 08 04.13550	03 39 54.19	+03 19 31.3	16.6	N	K 160
38P	2018 08 04.13765	03 39 54.51	+03 19 31.6	16.6	N	K 160
38P	2018 08 04.13951	03 39 54.79	+03 19 33.0	15.9	N	K 160
38P	2018 08 06.13375	03 44 16.47	+03 36 37.5	15.0	N	K 160
38P	2018 08 06.13654	03 44 16.82	+03 36 39.8	16.2	N	K 160
38P	2018 08 06.13931	03 44 17.16	+03 36 41.4	16.1	N	K 160
38P	2018 08 06.39733	03 44 51.16	+03 38 58.5	15.4	N	W96
38P	2018 08 06.40560	03 44 52.22	+03 39 02.3	15.4	N	W96
38P	2018 08 06.41445	03 44 53.37	+03 39 06.8	15.3	N	W96
38P	2018 08 07.07576	03 46 20.67	+03 44 40.4	15.2	N	C23
38P	2018 08 07.08009	03 46 21.26	+03 44 42.3	15.3	N	C23
38P	2018 08 07.08442	03 46 21.83	+03 44 44.8	15.5	N	C23
38P	2018 08 09.15292	03 50 55.82	+04 02 23.5	15.0	N	J22
38P	2018 08 09.15686	03 50 56.46	+04 02 26.8	15.0	N	J22
38P	2018 08 09.16081	03 50 56.99	+04 02 28.3	15.0	N	J22
38P	2018 08 09.78312	03 52 19.58	+04 07 46.2	13.9	T	349
38P	2018 08 09.78736	03 52 20.13	+04 07 48.2			349
38P	2018 08 11.21691	03 55 30.93	+04 19 59.4	15.3	N	9 G40
38P	2018 08 11.22251	03 55 31.66	+04 20 02.0	15.4	N	9 G40
38P	2018 08 11.22824	03 55 32.42	+04 20 05.2	15.3	N	9 G40
38P	2018 08 11.33488	03 55 46.74	+04 21 02.2	15.2	N	W96
38P	2018 08 11.36667	03 55 50.85	+04 21 18.2	15.0	N	W96
38P	2018 08 12.84454	03 59 09.08	+04 33 53.3	15.2	N	323

38P	2018 08 12.86792	03 59 12.18	+04 34 04.5	15.2	N	323
38P	2018 08 12.99844	03 59 29.77	+04 35 04.4			L51
38P	2018 08 13.00281	03 59 30.35	+04 35 06.6			L51
38P	2018 08 13.00719	03 59 30.92	+04 35 08.8	13.6	R	L51
38P	2018 08 13.01156	03 59 31.50	+04 35 11.2			L51
38P	2018 08 13.08220	03 59 41.05	+04 35 47.4	15.6	N	K77
38P	2018 08 13.08520	03 59 41.46	+04 35 48.9	15.7	N	K77
38P	2018 08 14.78831	04 03 30.94	+04 50 17.4			K 367
38P	2018 08 14.78993	04 03 31.14	+04 50 18.3			K 367
38P	2018 08 14.79115	04 03 31.31	+04 50 18.8	13.7	T	K 367
38P	2018 08 15.12363	04 04 16.31	+04 53 07.8	15.0	R	K A77
38P	2018 08 15.13254	04 04 17.47	+04 53 11.7	15.3	R	K A77
38P	2018 08 15.14108	04 04 18.64	+04 53 16.3	15.3	R	K A77
38P	2018 08 15.14791	04 04 19.58	+04 53 19.9	14.9	N	J01
38P	2018 08 15.15487	04 04 20.54	+04 53 23.8	14.9	N	J01
38P	2018 08 15.17328	04 04 22.98	+04 53 32.7	14.9	N	J01
38P	2018 08 15.42552	04 04 57.11	+04 55 42.2	14.9	R	K H47
38P	2018 08 15.42907	04 04 57.59	+04 55 43.9	14.8	R	K H47
38P	2018 08 15.43252	04 04 58.05	+04 55 45.8	14.9	R	K H47
38P	2018 08 16.12633	04 06 32.07	+05 01 38.1	16.0	N	K 160
38P	2018 08 16.12759	04 06 32.24	+05 01 38.7	16.0	N	K 160
38P	2018 08 16.12884	04 06 32.39	+05 01 39.6	15.6	N	K 160
38P	2018 08 16.14764	04 06 34.98	+05 01 48.9	15.0	N	I72
38P	2018 08 16.14844	04 06 35.09	+05 01 49.3	15.0	N	I72
38P	2018 08 16.14924	04 06 35.20	+05 01 49.7	15.0	N	I72
38P	2018 08 16.37060	04 07 05.20	+05 03 47.0	15.1	N	W96
38P	2018 08 16.38843	04 07 07.57	+05 03 56.0	15.1	N	W96
38P	2018 08 16.76329	04 07 58.53	+05 07 07.8	15.2	N	Q68
38P	2018 08 16.79571	04 08 02.85	+05 07 23.4	15.1	N	Q68
38P	2018 08 17.40794	04 09 26.23	+05 12 30.6	14.8	R	K H47
38P	2018 08 17.41515	04 09 27.19	+05 12 34.2	14.8	R	K H47
38P	2018 08 17.42056	04 09 27.93	+05 12 36.9	14.9	R	K H47
38P	2018 08 17.69396	04 10 05.24	+05 14 55.2			D95
38P	2018 08 17.69762	04 10 05.73	+05 14 57.2			D95
38P	2018 08 17.70129	04 10 06.23	+05 14 58.9	13.6	T	D95
38P	2018 08 17.76292	04 10 14.51	+05 15 35.3	15.1	N	Q68
38P	2018 08 17.77500	04 10 16.21	+05 15 36.5	13.3	T	349
38P	2018 08 17.78461	04 10 17.51	+05 15 41.5			349
38P	2018 08 17.79421	04 10 18.82	+05 15 46.6			349
38P	2018 08 17.79521	04 10 18.88	+05 15 52.9	15.1	N	Q68
38P	2018 08 18.02731	04 10 50.62	+05 17 44.9	14.8	N	585
38P	2018 08 18.02802	04 10 50.72	+05 17 45.1	14.8	N	585
38P	2018 08 18.02873	04 10 50.81	+05 17 45.6	14.8	N	585
38P	2018 08 18.02944	04 10 50.91	+05 17 45.8	14.8	N	585
38P	2018 08 18.03014	04 10 51.01	+05 17 46.1	14.7	N	585
38P	2018 08 18.03085	04 10 51.11	+05 17 46.5	14.8	N	585
38P	2018 08 18.03156	04 10 51.20	+05 17 47.0	14.8	N	585
38P	2018 08 18.03227	04 10 51.27	+05 17 46.5	14.8	N	585
38P	2018 08 18.03298	04 10 51.39	+05 17 47.5	14.7	N	585
38P	2018 08 18.03369	04 10 51.50	+05 17 48.0	14.8	N	585
38P	2018 08 18.03439	04 10 51.59	+05 17 48.3	14.8	N	585
38P	2018 08 18.03510	04 10 51.68	+05 17 48.7	14.8	N	585
38P	2018 08 18.03581	04 10 51.78	+05 17 49.0	14.7	N	585
38P	2018 08 18.03652	04 10 51.88	+05 17 49.4	14.7	N	585
38P	2018 08 18.03723	04 10 51.97	+05 17 49.8	14.7	N	585
38P	2018 08 18.03956	04 10 52.33	+05 17 50.0	15.0	N	A98
38P	2018 08 18.04133	04 10 52.53	+05 17 51.3	15.4	N	A98
38P	2018 08 18.04400	04 10 52.87	+05 17 52.5	14.7	N	A98
38P	2018 08 18.05306	04 10 54.17	+05 17 56.7	15.1	N	A98
38P	2018 08 18.05660	04 10 54.57	+05 17 59.4	14.9	N	A98
38P	2018 08 18.05749	04 10 54.73	+05 17 59.4	14.8	N	A98
38P	2018 08 18.08928	04 10 59.11	+05 18 15.6	15.3	R	B96
38P	2018 08 18.09256	04 10 59.53	+05 18 17.5	15.2	R	B96
38P	2018 08 18.09745	04 11 00.17	+05 18 20.2	15.3	R	B96
38P	2018 08 18.14205	04 11 06.23	+05 18 43.3	15.4	N	K 160
38P	2018 08 18.14360	04 11 06.42	+05 18 44.2	15.8	N	K 160
38P	2018 08 18.14514	04 11 06.65	+05 18 44.7	15.0	N	K 160
38P	2018 08 18.74433	04 12 28.50	+05 23 49.6			Q23
38P	2018 08 18.75020	04 12 29.28	+05 23 52.6			Q23
38P	2018 08 18.75600	04 12 30.09	+05 23 55.5	13.3	T	Q23
38P	2018 08 19.76108	04 14 47.59	+05 32 31.6	15.1	N	Q68
38P	2018 08 19.79340	04 14 51.97	+05 32 49.4	15.1	N	Q68
38P	2018 08 20.16179	04 15 42.58	+05 35 50.7	14.8	N	J01
38P	2018 08 20.17822	04 15 44.82	+05 35 58.7	14.8	N	J01
38P	2018 08 20.18529	04 15 45.78	+05 36 02.2	14.8	N	J01
38P	2018 08 21.05289	04 17 44.97	+05 43 24.3	14.6	N	585
38P	2018 08 21.05359	04 17 45.08	+05 43 24.6	14.6	N	585
38P	2018 08 21.05430	04 17 45.17	+05 43 24.9	14.6	N	585
38P	2018 08 21.05501	04 17 45.25	+05 43 25.6	14.5	N	585
38P	2018 08 21.05582	04 17 45.38	+05 43 25.8	14.6	N	585
38P	2018 08 21.05652	04 17 45.48	+05 43 26.2	14.6	N	585
38P	2018 08 21.05723	04 17 45.57	+05 43 26.5	14.6	N	585
38P	2018 08 21.05794	04 17 45.67	+05 43 26.8	14.6	N	585
38P	2018 08 21.05865	04 17 45.76	+05 43 27.2	14.6	N	585
38P	2018 08 21.05937	04 17 45.86	+05 43 27.5	14.6	N	585
38P	2018 08 21.06029	04 17 45.99	+05 43 28.1	14.6	N	585
38P	2018 08 21.06099	04 17 46.09	+05 43 28.5	14.6	N	585
38P	2018 08 21.06170	04 17 46.18	+05 43 28.8	14.6	N	585
38P	2018 08 21.06241	04 17 46.28	+05 43 29.2	14.6	N	585
38P	2018 08 21.06312	04 17 46.37	+05 43 29.5	14.6	N	585
38P	2018 08 21.06383	04 17 46.47	+05 43 29.9	14.6	N	585
38P	2018 08 21.06454	04 17 46.57	+05 43 30.2	14.6	N	585
38P	2018 08 21.06524	04 17 46.66	+05 43 30.7	14.6	N	585
38P	2018 08 21.06595	04 17 46.75	+05 43 31.1	14.5	N	585
38P	2018 08 21.10437	04 17 52.08	+05 43 50.1	15.2	V	K 215
38P	2018 08 21.10566	04 17 52.27	+05 43 50.6	15.1	V	K 215
38P	2018 08 21.10694	04 17 52.46	+05 43 51.0	14.9	V	K 215
38P	2018 08 21.14768	04 17 57.96	+05 44 12.9	15.7	N	K 160
38P	2018 08 21.15046	04 17 58.34	+05 44 14.4	15.8	N	K 160
38P	2018 08 21.15324	04 17 58.73	+05 44 15.9	16.0	N	K 160
38P	2018 08 22.09261	04 20 08.25	+05 52 13.6	14.7	N	C23
38P	2018 08 22.09710	04 20 08.86	+05 52 15.8	14.9	N	C23
38P	2018 08 22.10084	04 20 09.40	+05 52 17.6	14.9	N	C23
38P	2018 08 22.42265	04 20 53.76	+05 55 03.1	14.2	R	K H47
38P	2018 08 22.42711	04 20 54.36	+05 55 05.0	14.2	R	K H47
38P	2018 08 22.43302	04 20 55.18	+05 55 08.3	14.2	R	K H47

38P	2018 08 23.04940	04 22 20.37	+06 00 21.5	14.5	N		585
38P	2018 08 23.05012	04 22 20.47	+06 00 21.8	14.5	N		585
38P	2018 08 23.05087	04 22 20.56	+06 00 22.4	14.4	N		585
38P	2018 08 23.05231	04 22 20.78	+06 00 23.1	14.6	N		585
38P	2018 08 23.05303	04 22 20.87	+06 00 23.3	14.6	N		585
38P	2018 08 23.05375	04 22 20.97	+06 00 23.7	14.5	N		585
38P	2018 08 23.05448	04 22 21.08	+06 00 24.2	14.5	N		585
38P	2018 08 23.05520	04 22 21.18	+06 00 24.5	14.5	N		585
38P	2018 08 23.05592	04 22 21.27	+06 00 24.8	14.4	N		585
38P	2018 08 23.06252	04 22 22.18	+06 00 28.3	14.5	N		585
38P	2018 08 23.06324	04 22 22.27	+06 00 28.7	14.5	N		585
38P	2018 08 23.06360	04 22 22.33	+06 00 28.8	14.5	N		585
38P	2018 08 23.06396	04 22 22.36	+06 00 29.2	14.5	N		585
38P	2018 08 23.06468	04 22 22.47	+06 00 29.5	14.5	N		585
38P	2018 08 23.06541	04 22 22.57	+06 00 29.8	14.6	N		585
38P	2018 08 23.06613	04 22 22.67	+06 00 30.2	14.5	N		585
38P	2018 08 23.06687	04 22 22.77	+06 00 30.5	14.4	N		585
38P	2018 08 23.36862	04 23 04.54	+06 03 09.4	14.9	N		W96
38P	2018 08 23.39383	04 23 07.98	+06 03 23.3	14.9	N		W96
38P	2018 08 24.01166	04 24 33.73	+06 08 31.8	14.3	N		A98
38P	2018 08 24.01253	04 24 33.80	+06 08 31.6	14.8	N		A98
38P	2018 08 24.01520	04 24 34.16	+06 08 32.8	14.3	N		A98
38P	2018 08 24.01874	04 24 34.73	+06 08 35.6	14.7	N		A98
38P	2018 08 24.01962	04 24 34.78	+06 08 35.7	14.7	N		A98
38P	2018 08 24.02227	04 24 35.11	+06 08 36.2	14.7	N		A98
38P	2018 08 24.42487	04 25 30.98	+06 12 04.9	15.1	R	K	H47
38P	2018 08 24.43057	04 25 31.75	+06 12 07.1	15.0	R	K	H47
38P	2018 08 24.43620	04 25 32.57	+06 12 10.6	15.0	R	K	H47
38P	2018 08 24.44244	04 25 33.39	+06 12 13.5	15.1	R	K	H47
38P	2018 08 26.20850	04 29 39.31	+06 27 16.7	15.0	N	9	G40
38P	2018 08 26.21668	04 29 40.43	+06 27 21.0	14.9	N	9	G40
38P	2018 08 28.10581	04 34 04.65	+06 43 27.7	15.2	V		K22
38P	2018 08 28.12398	04 34 07.17	+06 43 37.3	15.3	V		K22
38P	2018 08 28.13693	04 34 08.95	+06 43 44.1	15.7	N	K	160
38P	2018 08 28.13973	04 34 09.34	+06 43 45.6	15.7	N	K	160
38P	2018 08 28.14252	04 34 09.71	+06 43 47.2	15.8	N	K	160
38P	2018 08 28.14442	04 34 10.02	+06 43 47.8	15.1	V		K22
38P	2018 08 30.392743	04 39 26.30	+07 03 05.4	14.3	R	K	H47
38P	2018 08 30.410648	04 39 28.81	+07 03 14.3	14.2	R	K	H47
38P	2018 08 30.423171	04 39 30.54	+07 03 21.1	14.2	R	K	H47
38P	2018 08 31.10377	04 41 06.66	+07 09 10.1	14.1	N		I81
38P	2018 08 31.10812	04 41 07.27	+07 09 12.4	14.1	N		I81
38P	2018 08 31.11101	04 41 07.67	+07 09 13.9	14.1	N		I81
38P	2018 09 01.09565	04 43 26.62	+07 17 47.6	16	R		C51
Geocentric position (km)	− 819.2199	+ 6731.6212	+ 1013.6138				
38P	2018 09 01.22656	04 43 45.16	+07 18 55.6				C51
Geocentric position (km)	− 832.3333	+ 6732.9733	+ 993.9476				
38P	2018 09 01.35746	04 44 03.72	+07 20 03.2				C51
Geocentric position (km)	− 845.4486	+ 6734.2475	+ 974.2604				
38P	2018 09 01.48824	04 44 22.24	+07 21 10.8				C51
Geocentric position (km)	− 867.6998	+ 6721.9852	+ 1036.8340				
38P	2018 09 01.61914	04 44 40.79	+07 22 18.8				C51
Geocentric position (km)	− 880.8206	+ 6723.3159	+ 1017.1637				
38P	2018 09 01.88082	04 45 17.92	+07 24 34.7				C51
Geocentric position (km)	− 916.0597	+ 6711.9432	+ 1059.9066				
38P	2018 09 01.88095	04 45 17.94	+07 24 34.8				C51
Geocentric position (km)	− 907.0521	+ 6725.7507	+ 977.6369				
38P	2018 09 02.01172	04 45 36.52	+07 25 42.5				C51
Geocentric position (km)	− 929.1755	+ 6713.2654	+ 1040.1173				
38P	2018 09 02.07602	04 45 46.02	+07 26 12.4	15.0	N		K97
38P	2018 09 02.07717	04 45 45.80	+07 26 16.5				C51
Geocentric position (km)	− 935.7346	+ 6713.9009	+ 1030.2157				
38P	2018 09 02.09160	04 45 48.22	+07 26 20.3	14.9	N		K97
38P	2018 09 02.10093	04 45 49.54	+07 26 25.2	15.0	N		K97
38P	2018 09 02.10558	04 45 50.19	+07 26 27.7	14.9	N		K97
38P	2018 09 02.11957	04 45 52.15	+07 26 34.9	14.9	N		K97
38P	2018 09 02.12701	04 45 53.27	+07 26 38.6	14.1	V	K	A77
38P	2018 09 02.13012	04 45 53.65	+07 26 40.5	15.2	N	K	A77
38P	2018 09 02.13281	04 45 54.02	+07 26 42.3	15.2	N	K	A77
38P	2018 09 02.13483	04 45 54.35	+07 26 42.5	14.1	V	K	A77
38P	2018 09 02.13521	04 45 54.33	+07 26 43.2	15.2	N	K	A77
38P	2018 09 02.13814	04 45 54.79	+07 26 44.8	15.1	N	K	A77
38P	2018 09 02.14263	04 45 55.10	+07 26 50.5				C51
Geocentric position (km)	− 942.2957	+ 6714.5030	+ 1020.3341				
38P	2018 09 02.14309	04 45 55.54	+07 26 46.9	14.1	V	K	A77
38P	2018 09 02.20808	04 46 04.39	+07 27 24.5				C51
Geocentric position (km)	− 948.8576	+ 6715.0935	+ 1010.4473				
38P	2018 09 02.27353	04 46 13.68	+07 27 58.7				C51
Geocentric position (km)	− 955.4199	+ 6715.6574	+ 1000.5571				
38P	2018 09 02.40430	04 46 32.25	+07 29 06.6				C51
Geocentric position (km)	− 977.4203	+ 6702.8050	+ 1063.0195				
38P	2018 09 02.40443	04 46 32.28	+07 29 06.6				C51
Geocentric position (km)	− 968.5441	+ 6716.7320	+ 980.7559				
38P	2018 09 02.46976	04 46 41.56	+07 29 40.3				C51
Geocentric position (km)	− 983.9802	+ 6703.4232	+ 1053.0991				
38P	2018 09 02.53521	04 46 50.86	+07 30 14.4				C51
Geocentric position (km)	− 990.5056	+ 6704.0869	+ 1042.8386				
38P	2018 09 02.60066	04 47 00.16	+07 30 48.5				C51
Geocentric position (km)	− 997.0692	+ 6704.6586	+ 1032.9359				
38P	2018 09 02.66611	04 47 09.48	+07 31 22.6				C51
Geocentric position (km)	− 1003.6297	+ 6705.2227	+ 1022.9953				
38P	2018 09 02.73156	04 47 18.77	+07 31 56.6				C51
Geocentric position (km)	− 1010.1912	+ 6705.7619	+ 1013.0541				
38P	2018 09 02.86247	04 47 37.38	+07 33 04.7				C51
Geocentric position (km)	− 1023.3162	+ 6706.7782	+ 993.1829				
38P	2018 09 05.06153	04 52 51.33	+07 52 09.1	14.9	N		K97
38P	2018 09 05.06667	04 52 52.07	+07 52 11.6	14.9	N		K97
38P	2018 09 05.08552	04 52 54.73	+07 52 21.7	14.9	N		K97
38P	2018 09 05.77473	04 54 33.31	+07 58 24.0	12.6	T		349
38P	2018 09 05.77814	04 54 33.80	+07 58 25.9				349
38P	2018 09 05.79681	04 54 36.55	+07 58 42.2	14.6	N		323
38P	2018 09 05.79908	04 54 36.82	+07 58 43.9	14.6	N		323
38P	2018 09 06.08881	04 55 18.29	+08 01 07.5	14.9	N		K77
38P	2018 09 06.09458	04 55 19.13	+08 01 11.4	14.9	N		K77
38P	2018 09 06.12685	04 55 23.71	+08 01 27.7	13.9	N		I81
38P	2018 09 06.14271	04 55 25.97	+08 01 36.0	13.9	N		I81

38P	2018 09 06.14850	04 55 26.79	+08 01 39.2	13.8	N	I81
38P	2018 09 06.16517	04 55 29.12	+08 01 48.9	14.7	N	K 160
38P	2018 09 06.16799	04 55 29.52	+08 01 50.3	14.7	N	K 160
38P	2018 09 06.17081	04 55 29.90	+08 01 51.8	15.4	N	K 160
38P	2018 09 07.14829	04 57 50.21	+08 10 26.4	14.4	N	J01
38P	2018 09 07.15431	04 57 51.07	+08 10 29.4	14.4	N	J01
38P	2018 09 07.15759	04 57 51.52	+08 10 31.5	14.7	R	K A77
38P	2018 09 07.16163	04 57 52.02	+08 10 33.3	14.8	R	K A77
38P	2018 09 07.16560	04 57 52.65	+08 10 35.6	14.5	R	K A77
38P	2018 09 07.17258	04 57 53.66	+08 10 39.0	14.4	N	J01
38P	2018 09 07.39153	04 58 25.04	+08 12 41.7	14.6	N	W96
38P	2018 09 07.39377	04 58 25.37	+08 12 42.8	14.5	N	W96
38P	2018 09 07.39676	04 58 25.76	+08 12 44.4	14.6	N	W96
38P	2018 09 09.06340	05 02 25.61	+08 27 21.1	14.8	N	K97
38P	2018 09 09.07893	05 02 27.83	+08 27 29.3	14.8	N	K97
38P	2018 09 09.08045	05 02 28.08	+08 27 29.7	14.7	R	K 215
38P	2018 09 09.08148	05 02 28.20	+08 27 30.6	14.7	N	K97
38P	2018 09 09.08174	05 02 28.26	+08 27 30.4	14.8	R	K 215
38P	2018 09 09.08302	05 02 28.45	+08 27 31.1	14.6	R	K 215
38P	2018 09 09.08581	05 02 28.82	+08 27 33.1	14.8	N	K97
38P	2018 09 09.16241	05 02 39.74	+08 28 14.6	15.3	N	K 160
38P	2018 09 09.16521	05 02 40.14	+08 28 16.0	15.3	N	K 160
38P	2018 09 09.16758	05 02 40.50	+08 28 17.1	14.8	N	K 160
38P	2018 09 09.46048	05 03 22.57	+08 30 48.8	12.4	G	703
38P	2018 09 09.46529	05 03 23.22	+08 30 51.1	12.4	G	703
38P	2018 09 09.47011	05 03 23.88	+08 30 53.0	12.4	G	703
38P	2018 09 09.47493	05 03 24.59	+08 30 55.3	12.4	G	703
38P	2018 09 10.10336	05 04 55.57	+08 36 35.6	14.4	N	C10
38P	2018 09 10.11429	05 04 57.18	+08 36 41.8	14.5	R	K A77
38P	2018 09 10.12611	05 04 58.78	+08 36 48.4	15.0	N	A77
38P	2018 09 10.12932	05 04 59.28	+08 36 49.7	14.9	N	A77
38P	2018 09 10.13047	05 04 59.49	+08 36 50.4	14.8	R	K A77
38P	2018 09 10.13331	05 04 59.83	+08 36 52.2	15.0	N	A77
38P	2018 09 10.13652	05 05 00.32	+08 36 53.0	14.5	N	C10
38P	2018 09 10.13969	05 05 00.73	+08 36 55.6	15.0	N	A77
38P	2018 09 10.13990	05 05 00.80	+08 36 55.9	13.2	T	K A77
38P	2018 09 10.14983	05 05 02.17	+08 37 01.1	15.3	N	K 160
38P	2018 09 10.15263	05 05 02.57	+08 37 02.6	15.4	N	K 160
38P	2018 09 10.15541	05 05 02.98	+08 37 04.3	15.3	N	K 160
38P	2018 09 10.17358	05 05 05.60	+08 37 12.9	14.4	N	C10
38P	2018 09 11.02539	05 07 08.79	+08 44 49.0	14.5	N	C23
38P	2018 09 11.02988	05 07 09.45	+08 44 51.2	14.3	N	C23
38P	2018 09 11.03438	05 07 10.09	+08 44 53.9	14.4	N	C23
38P	2018 09 11.10832	05 07 20.73	+08 45 33.6	15.7	V	K40
38P	2018 09 11.12003	05 07 22.42	+08 45 40.5	15.6	V	K40
38P	2018 09 11.13719	05 07 24.86	+08 45 50.2	14.6	N	A77
38P	2018 09 11.14172	05 07 25.51	+08 45 52.6	14.6	N	A77
38P	2018 09 11.14652	05 07 26.16	+08 45 55.2	14.6	N	A77
38P	2018 09 11.17044	05 07 29.59	+08 46 08.5	15.4	N	K 160
38P	2018 09 11.17321	05 07 29.98	+08 46 09.9	15.4	N	K 160
38P	2018 09 11.17599	05 07 30.40	+08 46 11.3	15.4	N	K 160
38P	2018 09 12.16280	05 09 53.41	+08 55 03.1	13.9	N	J22
38P	2018 09 12.16887	05 09 54.20	+08 55 07.1	13.9	N	J22
38P	2018 09 12.17083	05 09 54.49	+08 55 09.2	13.9	N	J22
38P	2018 09 13.10739	05 12 10.15	+09 03 32.1	14.7	N	238
38P	2018 09 13.11028	05 12 10.58	+09 03 33.7	14.7	N	238
38P	2018 09 13.11510	05 12 11.28	+09 03 36.3	14.6	N	238
38P	2018 09 13.14708	05 12 15.96	+09 03 55.6	14.2	R	K A77
38P	2018 09 13.15273	05 12 16.79	+09 03 58.7	14.2	R	K A77
38P	2018 09 13.15838	05 12 17.56	+09 04 01.8	14.2	R	K A77
38P	2018 09 14.09830	05 14 34.09	+09 12 33.0	14.2	N	L12
38P	2018 09 14.10277	05 14 34.71	+09 12 35.4	14.4	N	C23
38P	2018 09 14.10534	05 14 35.06	+09 12 37.0	14.3	N	L12
38P	2018 09 14.10951	05 14 35.68	+09 12 39.1	14.4	N	C23
38P	2018 09 14.11238	05 14 36.13	+09 12 40.9	14.1	N	L12
38P	2018 09 14.11550	05 14 36.54	+09 12 42.4	14.4	N	C23
38P	2018 09 14.37480	05 15 14.18	+09 15 12.3	14.4	N	W96
38P	2018 09 14.38152	05 15 15.17	+09 15 15.9	14.4	N	W96
38P	2018 09 14.38825	05 15 16.08	+09 15 19.3	14.4	N	W96
38P	2018 09 14.39969	05 15 17.67	+09 15 25.3	14.0	V	I47
38P	2018 09 14.40139	05 15 17.89	+09 15 25.9	14.0	V	I47
38P	2018 09 15.00656	05 16 46.13	+09 20 49.3	14.4	N	A98
38P	2018 09 15.00810	05 16 46.36	+09 20 50.5	13.8	N	A98
38P	2018 09 15.00887	05 16 46.47	+09 20 51.4	14.0	N	A98
38P	2018 09 15.01348	05 16 47.14	+09 20 53.3	13.6	N	A98
38P	2018 09 15.01425	05 16 47.25	+09 20 54.1	13.9	N	A98
38P	2018 09 15.01656	05 16 47.54	+09 20 55.9	14.5	N	A98
38P	2018 09 15.01809	05 16 47.78	+09 20 56.2	13.7	N	A98
38P	2018 09 15.09642	05 16 59.25	+09 21 40.4	14.1	N	J01
38P	2018 09 15.10014	05 16 59.80	+09 21 41.9	14.1	N	J01
38P	2018 09 15.11491	05 17 01.94	+09 21 50.6	14.1	N	J01
38P	2018 09 15.433981	05 17 48.19	+09 24 46.5	13.8	R	K H47
38P	2018 09 15.440637	05 17 49.18	+09 24 51.4	13.6	R	K H47
38P	2018 09 15.447002	05 17 49.99	+09 24 53.9	14.0	R	K H47
38P	2018 09 15.46950	05 17 53.44	+09 25 04.8	12.6	G	703
38P	2018 09 15.47504	05 17 54.22	+09 25 07.7	12.6	G	703
38P	2018 09 15.48057	05 17 55.01	+09 25 10.0	12.2	G	703
38P	2018 09 15.48611	05 17 55.81	+09 25 12.8	12.2	G	703
38P	2018 09 15.79745	05 18 41.26	+09 28 14.2	14.5	N	K 323
38P	2018 09 15.81367	05 18 43.59	+09 28 22.5	14.6	N	K 323
38P	2018 09 16.06253	05 19 19.83	+09 30 31.0	14.4	N	238
38P	2018 09 16.06661	05 19 20.42	+09 30 33.4	14.3	N	238
38P	2018 09 16.13373	05 19 30.26	+09 31 12.3	15.0	R	K A77
38P	2018 09 16.14076	05 19 31.22	+09 31 15.9	14.3	R	K A77
38P	2018 09 16.14782	05 19 32.29	+09 31 20.1	13.1	T	K A77
38P	2018 09 16.73880	05 20 58.44	+09 36 47.9	12.2	T	349
38P	2018 09 16.74477	05 20 59.30	+09 36 51.0			349
38P	2018 09 16.75071	05 21 00.18	+09 36 54.7			349
38P	2018 09 17.13803	05 21 56.60	+09 40 29.5	14.6	N	K A77
38P	2018 09 17.14285	05 21 57.30	+09 40 32.2	14.6	N	K A77
38P	2018 09 17.14844	05 21 58.09	+09 40 35.1	14.4	N	K A77
38P	2018 09 17.15323	05 21 58.80	+09 40 37.7	14.6	N	K A77
38P	2018 09 17.419317	05 22 37.67	+09 43 07.5	14.0	R	K H47
38P	2018 09 17.425984	05 22 38.65	+09 43 11.1	13.9	R	K H47
38P	2018 09 17.430961	05 22 39.35	+09 43 13.2	13.8	R	K H47
38P	2018 09 18.09124	05 24 15.85	+09 49 21.2	14.5	N	K97

38P	2018 09 18.10502	05 24 17.83	+09 49 29.0	14.5	N	K97
38P	2018 09 18.10680	05 24 18.19	+09 49 30.9	14.1	R	A77
38P	2018 09 18.11109	05 24 18.71	+09 49 32.4	14.5	N	K97
38P	2018 09 18.11627	05 24 19.45	+09 49 35.6	14.5	N	K97
38P	2018 09 18.12085	05 24 20.24	+09 49 38.2	14.0	R	A77
38P	2018 09 18.13689	05 24 22.52	+09 49 47.4	13.2	T	A77
38P	2018 09 19.08651	05 26 41.33	+09 58 39.7	14.3	N	238
38P	2018 09 19.08992	05 26 41.82	+09 58 41.6	14.3	N	238
38P	2018 09 19.09334	05 26 42.32	+09 58 43.4	14.4	N	238
38P	2018 09 19.09995	05 26 43.28	+09 58 48.0	13.6	N	I81
38P	2018 09 19.10429	05 26 43.95	+09 58 50.4	13.6	N	I81
38P	2018 09 19.10719	05 26 44.36	+09 58 51.6	13.7	N	I81
38P	2018 09 19.15493	05 26 51.33	+09 59 20.6	14.1	R	A77
38P	2018 09 19.16674	05 26 53.07	+09 59 27.3	14.2	R	A77
38P	2018 09 19.17858	05 26 54.77	+09 59 33.9	14.3	R	A77

41P/Tuttle-Giacobini-Kresák

41P	2017 04 10.29792	16 04 45.10	+61 29 53.4	13.6	N	S H06
41P	2017 04 10.30185	16 04 47.91	+61 29 41.0	13.3	N	S H06
41P	2017 04 10.30554	16 04 50.78	+61 29 29.4	13.7	N	S H06
41P	2017 04 10.30645	16 04 51.45	+61 29 27.5	13.2	N	S H06

46P/Wirtanen

46P	2018 08 12.99744	01 11 15.08	−15 06 58.2			L51
46P	2018 08 13.00177	01 11 15.45	−15 07 01.0			L51
46P	2018 08 13.00610	01 11 15.71	−15 07 02.5	15.9	R	L51
46P	2018 08 13.01043	01 11 15.99	−15 07 04.1			L51
46P	2018 09 01.09244	01 32 14.44	−18 14 42.6	16.4	N	K K02
46P	2018 09 01.10012	01 32 14.82	−18 14 50.2	16.6	N	K K02
46P	2018 09 05.26516	01 36 13.04	−19 09 19.9	16.6	N	W96
46P	2018 09 05.29500	01 36 14.58	−19 09 43.5	16.5	N	W96
46P	2018 09 05.60580	01 36 32.29	−19 13 57.1	16.6	N	323
46P	2018 09 05.63170	01 36 33.68	−19 14 19.0	16.7	N	323
46P	2018 09 05.74924	01 36 39.36	−19 16 10.9	14.4	T	349
46P	2018 09 05.75498	01 36 39.64	−19 16 15.7			349
46P	2018 09 06.60415	01 37 26.64	−19 27 53.6	16.6	N	323
46P	2018 09 06.60996	01 37 26.95	−19 27 58.5	16.8	N	323
46P	2018 09 07.36485	01 38 06.29	−19 38 45.2	16.5	N	W96
46P	2018 09 07.37680	01 38 06.87	−19 38 55.1	16.6	N	W96
46P	2018 09 07.38503	01 38 07.26	−19 39 02.0	16.5	N	W96
46P	2018 09 07.60334	01 38 19.62	−19 42 05.8	16.8	G	Q38
46P	2018 09 07.60579	01 38 19.79	−19 42 08.9	16.8	G	Q38
46P	2018 09 07.60823	01 38 19.93	−19 42 11.7	16.8	G	Q38
46P	2018 09 08.13978	01 38 47.29	−19 50 07.7	16.2	R	K A77
46P	2018 09 08.14496	01 38 47.49	−19 50 11.3	16.1	R	K A77
46P	2018 09 08.15014	01 38 47.74	−19 50 16.2	16.0	R	K A77
46P	2018 09 08.235525	01 38 52.800	−19 51 16.81	18.7	G	W87
46P	2018 09 08.253084	01 38 53.648	−19 51 32.30	18.6	G	W87
46P	2018 09 08.274065	01 38 54.636	−19 51 50.86	18.5	G	W87
46P	2018 09 08.295040	01 38 55.623	−19 52 09.01	18.6	G	W87
46P	2018 09 08.315597	01 38 56.594	−19 52 27.02	18.5	G	W87
46P	2018 09 08.336519	01 38 57.581	−19 52 45.15	18.5	G	W87
46P	2018 09 08.357749	01 38 58.575	−19 53 03.60	18.5	G	W87
46P	2018 09 08.36939	01 38 59.00	−19 53 15.3	16.4	N	W96
46P	2018 09 08.379424	01 38 59.618	−19 53 22.44	18.5	G	W87
46P	2018 09 08.40682	01 39 00.84	−19 53 47.7	16.3	N	W96
46P	2018 09 08.49032	01 39 05.96	−19 55 10.3	17.0	o	T05
46P	2018 09 08.50129	01 39 06.49	−19 55 19.7	17.0	o	T05
46P	2018 09 08.50404	01 39 06.59	−19 55 22.2	16.0	o	T05
46P	2018 09 08.51273	01 39 06.98	−19 55 29.8	16.0	o	T05
46P	2018 09 08.69926	01 39 16.49	−19 58 02.5	16.0	N	3 Q62
46P	2018 09 08.70606	01 39 16.83	−19 58 08.8	16.0	N	3 Q62
46P	2018 09 08.79945	01 39 21.64	−19 59 30.5	16.5	N	323
46P	2018 09 08.85795	01 39 24.39	−20 00 21.9	16.5	N	323
46P	2018 09 09.09325	01 39 36.80	−20 04 05.1	16.4	N	K97
46P	2018 09 09.09479	01 39 36.84	−20 04 06.8	16.8	N	K97
46P	2018 09 09.09634	01 39 36.97	−20 04 07.7	16.8	N	K97
46P	2018 09 09.11811	01 39 37.90	−20 04 26.8	16.7	N	K97
46P	2018 09 09.211702	01 39 43.345	−20 05 35.27	18.6	G	W85
46P	2018 09 09.337170	01 39 49.160	−20 07 27.36	18.6	G	W87
46P	2018 09 09.357663	01 39 50.106	−20 07 45.45	18.7	G	W85
46P	2018 09 09.378649	01 39 51.072	−20 08 03.78	18.6	G	W85
46P	2018 09 09.535463	01 39 59.441	−20 10 34.49	17.97	G	T12
46P	2018 09 09.536057	01 39 59.466	−20 10 35.03	18.09	G	T12
46P	2018 09 10.00984	01 40 23.69	−20 17 43.1	16.2	N	C10
46P	2018 09 10.03191	01 40 24.72	−20 18 02.8	16.2	N	C10
46P	2018 09 10.05824	01 40 25.97	−20 18 26.0	16.3	N	C10
46P	2018 09 10.09135	01 40 27.51	−20 18 56.0	15.7	R	K A77
46P	2018 09 10.09748	01 40 27.74	−20 19 01.8	15.8	R	K A77
46P	2018 09 10.10360	01 40 28.05	−20 19 07.2	15.8	R	K A77
46P	2018 09 10.33140	01 40 39.91	−20 22 34.6	13.3	G	703
46P	2018 09 10.34219	01 40 40.44	−20 22 43.3	13.2	G	703
46P	2018 09 10.34759	01 40 40.73	−20 22 46.2	13.3	G	703
46P	2018 09 10.48089	01 40 47.22	−20 24 44.7	15.9	o	T08
46P	2018 09 10.48918	01 40 47.58	−20 24 52.1	15.9	o	T08
46P	2018 09 10.50485	01 40 48.29	−20 25 06.5	15.8	o	T08
46P	2018 09 10.50530	01 40 48.30	−20 25 07.0	15.8	o	T08
46P	2018 09 10.54329	01 40 50.69	−20 25 28.5	16.1	N	Q68
46P	2018 09 10.66001	01 40 55.99	−20 27 16.0	16.1	N	Q68
46P	2018 09 11.07351	01 41 16.33	−20 33 48.9	16.3	N	K97
46P	2018 09 11.09504	01 41 17.27	−20 34 08.5	16.4	N	K97
46P	2018 09 11.10046	01 41 17.99	−20 34 12.2	15.8	N	J22
46P	2018 09 11.10653	01 41 18.08	−20 34 15.9	15.8	N	J22
46P	2018 09 11.11349	01 41 18.16	−20 34 26.0	16.3	N	K97
46P	2018 09 12.02282	01 42 02.63	−20 48 24.0	16.4	N	K77
46P	2018 09 12.02572	01 42 02.82	−20 48 28.0	16.5	N	K77
46P	2018 09 12.13853	01 42 07.82	−20 50 12.2	15.3	G	K74
46P	2018 09 12.14162	01 42 07.89	−20 50 15.0	15.6	G	K74
46P	2018 09 12.65487	01 42 32.73	−20 57 59.0	16.0	N	Q68
46P	2018 09 12.66148	01 42 33.01	−20 58 05.0	16.0	N	Q68
46P	2018 09 14.10268	01 43 40.08	−21 21 07.5	16.6	N	K A77
46P	2018 09 14.10689	01 43 40.26	−21 21 11.3	16.5	N	K A77
46P	2018 09 14.11088	01 43 40.44	−21 21 15.0	16.5	N	K A77
46P	2018 09 14.11503	01 43 40.60	−21 21 18.5	16.6	N	K A77
46P	2018 09 14.13367	01 43 41.36	−21 21 36.6	15.4	R	K A77
46P	2018 09 14.14259	01 43 41.69	−21 21 44.8	15.3	R	K A77
46P	2018 09 14.15154	01 43 42.14	−21 21 53.5	15.4	R	K A77

46P	2018 09 14.33583	01 43 50.55	−21 24 37.7	16.0	N	W96
46P	2018 09 14.34928	01 43 51.04	−21 24 50.3	16.0	N	W96
46P	2018 09 14.36496	01 43 51.70	−21 25 05.4	16.0	N	W96
46P	2018 09 14.46949	01 43 57.20	−21 26 55.8	15.7	o	T08
46P	2018 09 14.47963	01 43 57.60	−21 27 05.6	15.7	o	T08
46P	2018 09 14.48240	01 43 57.72	−21 27 08.2	15.8	o	T08
46P	2018 09 14.49346	01 43 58.15	−21 27 18.9	15.7	o	T08
46P	2018 09 14.57666	01 44 02.28	−21 28 26.4	15.9	N	Q68
46P	2018 09 14.66241	01 44 05.73	−21 29 49.8	16.0	N	Q68
46P	2018 09 15.06023	01 44 23.72	−21 36 30.7	15.7	N	J01
46P	2018 09 15.07466	01 44 24.30	−21 36 44.8	15.7	N	J01
46P	2018 09 15.08911	01 44 24.90	−21 36 57.1	15.8	N	J01
46P	2018 09 15.29271	01 44 33.82	−21 40 03.3	15.9	N	W96
46P	2018 09 15.31948	01 44 34.89	−21 40 29.3	15.9	N	W96
46P	2018 09 16.02830	01 45 06.51	−21 52 15.7	16.0	N	C10
46P	2018 09 16.05448	01 45 07.56	−21 52 41.5	16.0	N	C10
46P	2018 09 16.08752	01 45 08.92	−21 53 14.5	16.0	N	C10
46P	2018 09 16.38134	01 45 21.40	−21 58 03.3	13.8	G	G96
46P	2018 09 16.38653	01 45 21.68	−21 58 11.1	13.6	G	G96
46P	2018 09 16.39170	01 45 21.96	−21 58 17.0	13.5	G	G96
46P	2018 09 16.39689	01 45 22.10	−21 58 22.9	13.5	G	G96
46P	2018 09 16.55111	01 45 28.80	−22 00 47.7	15.5	o	T05
46P	2018 09 16.56137	01 45 29.18	−22 00 57.9	15.5	o	T05
46P	2018 09 16.56599	01 45 29.35	−22 01 02.5	15.6	o	T05
46P	2018 09 16.57114	01 45 29.54	−22 01 07.7	15.4	o	T05
46P	2018 09 16.57524	01 45 30.59	−22 00 58.2			E23
46P	2018 09 16.57620	01 45 29.74	−22 01 12.4	15.5	o	T05
46P	2018 09 16.57872	01 45 30.62	−22 01 02.1			E23
46P	2018 09 16.58135	01 45 29.91	−22 01 17.5	15.5	o	T05
46P	2018 09 16.58219	01 45 30.76	−22 01 04.0			E23
46P	2018 09 16.58566	01 45 30.93	−22 01 08.7			E23
46P	2018 09 16.58595	01 45 30.09	−22 01 22.1	15.4	o	T05
46P	2018 09 16.58913	01 45 31.01	−22 01 10.9			E23
46P	2018 09 16.59620	01 45 30.47	−22 01 32.1	15.4	o	T05
46P	2018 09 16.62160	01 45 32.27	−22 01 44.8	16.7	V	E23
46P	2018 09 16.62681	01 45 32.43	−22 01 49.9	16.4	V	E23
46P	2018 09 16.63028	01 45 32.65	−22 01 53.7	16.7	V	E23
46P	2018 09 16.67742	01 45 34.51	−22 02 55.1			349
46P	2018 09 16.68471	01 45 34.79	−22 03 02.4	13.8	T	349
46P	2018 09 17.10594	01 45 52.55	−22 10 02.2	16.4	N	A77
46P	2018 09 17.10936	01 45 52.66	−22 10 04.9	16.3	N	A77
46P	2018 09 17.11416	01 45 52.89	−22 10 09.2	16.3	N	A77
46P	2018 09 17.11815	01 45 53.05	−22 10 13.3	16.3	N	A77
46P	2018 09 18.02138	01 46 31.21	−22 25 17.8	16.0	N	K97
46P	2018 09 18.03061	01 46 31.53	−22 25 27.1	16.1	N	K97
46P	2018 09 18.04292	01 46 32.01	−22 25 39.3	16.1	N	K97
46P	2018 09 18.05677	01 46 32.50	−22 25 53.3	16.1	N	K97
46P	2018 09 18.07365	01 46 33.13	−22 26 10.4	16.0	G	K74
46P	2018 09 18.07667	01 46 33.31	−22 26 12.9	16.3	N	K A77
46P	2018 09 18.08068	01 46 33.47	−22 26 17.2	16.4	N	K A77
46P	2018 09 18.08160	01 46 33.41	−22 26 18.2	16.0	G	K74
46P	2018 09 18.08205	01 46 33.49	−22 26 18.1	14.4	T	K A77
46P	2018 09 18.08468	01 46 33.58	−22 26 21.0	16.5	N	K A77
46P	2018 09 18.08883	01 46 33.78	−22 26 25.3	16.4	N	K A77
46P	2018 09 18.08921	01 46 33.75	−22 26 25.3	15.3	R	K A77
46P	2018 09 18.09078	01 46 33.72	−22 26 27.7	16.0	G	K74
46P	2018 09 18.09627	01 46 33.94	−22 26 31.9	15.2	R	K A77
46P	2018 09 18.54361	01 46 52.20	−22 33 59.9	15.4	o	T08
46P	2018 09 18.55564	01 46 52.62	−22 34 12.1	15.3	o	T08
46P	2018 09 18.56579	01 46 52.96	−22 34 21.4	15.3	o	T08
46P	2018 09 18.56993	01 46 53.11	−22 34 26.3	15.5	o	T08
46P	2018 09 19.29459	01 47 22.53	−22 46 31.7	15.7	N	W96
46P	2018 09 19.32898	01 47 23.68	−22 47 06.4	15.7	N	W96

47P/Ashbrook-Jackson

47P	2018 02 03.13412	01 32 48.69	+20 08 57.7			5 U69
47P	2018 02 03.13675	01 32 48.86	+20 08 58.5	18.9	w	5 U69

48P/Johnson

48P	2018 04 19.75779	20 44 07.81	−16 17 29.6	16.8	N	Q68
48P	2018 04 19.77648	20 44 09.84	−16 17 26.3	17.0	N	Q68
48P	2018 05 10.42008	21 20 08.25	−15 22 49.0	16.0	R	K H47
48P	2018 05 10.42639	21 20 08.86	−15 22 48.2	16.0	R	K H47
48P	2018 05 10.43408	21 20 09.61	−15 22 47.2	16.1	R	K H47
48P	2018 05 11.43247	21 21 48.98	−15 20 41.3	16.0	R	K H47
48P	2018 05 11.43696	21 21 49.35	−15 20 41.1	16.2	R	K H47
48P	2018 05 21.06597	21 37 17.70	−15 04 46.0	16.3	N	K A71
48P	2018 05 21.06843	21 37 17.96	−15 04 46.4	16.3	N	K A71
48P	2018 05 21.07043	21 37 18.14	−15 04 45.6	16.2	N	K A71
48P	2018 05 23.17809	21 40 33.60	−15 02 28.7	15.8	N	J22
48P	2018 05 23.18198	21 40 33.98	−15 02 29.1	15.8	N	J22
48P	2018 05 23.18395	21 40 34.15	−15 02 29.1	15.8	N	J22
48P	2018 05 29.39285	21 49 51.77	−14 58 52.0	15.6	R	H47
48P	2018 05 29.39751	21 49 52.17	−14 58 52.1	15.6	R	H47
48P	2018 05 29.40035	21 49 52.40	−14 58 52.2	15.6	R	H47
48P	2018 05 29.40267	21 49 52.60	−14 58 52.2	15.6	R	H47
48P	2018 05 31.56816	21 53 00.38	−14 58 47.2	15.4	o	T05
48P	2018 05 31.57652	21 53 01.14	−14 58 47.5	16.1	o	T05
48P	2018 05 31.58439	21 53 01.77	−14 58 47.2	15.4	o	T05
48P	2018 05 31.59279	21 53 02.48	−14 58 47.5	15.4	o	T05
48P	2018 06 02.73786	21 56 04.78	−14 59 25.0	14.9	T	349
48P	2018 06 02.75005	21 56 05.80	−14 59 25.2			349
48P	2018 06 06.07279	22 00 40.49	−15 01 48.1	15.5	N	K C23
48P	2018 06 06.07504	22 00 40.74	−15 01 47.3	15.1	N	K C23
48P	2018 06 06.602317	22 01 23.408	−15 02 18.07	17.2	G	29 568
48P	2018 06 06.604168	22 01 23.554	−15 02 18.21	17.2	G	29 568
48P	2018 06 06.606166	22 01 23.710	−15 02 18.28	17.1	G	29 568
48P	2018 06 06.99639	22 01 55.24	−15 02 44.4	14.8	N	585
48P	2018 06 06.99711	22 01 55.31	−15 02 44.4	15.0	N	585
48P	2018 06 06.99782	22 01 55.34	−15 02 44.2	14.8	N	585
48P	2018 06 06.99853	22 01 55.41	−15 02 44.1	14.8	N	585
48P	2018 06 06.99924	22 01 55.47	−15 02 44.1	14.8	N	585
48P	2018 06 06.99995	22 01 55.52	−15 02 44.6	14.8	N	585
48P	2018 06 07.00066	22 01 55.57	−15 02 44.1	14.8	N	585
48P	2018 06 07.00137	22 01 55.67	−15 02 45.0	14.8	N	585
48P	2018 06 07.00208	22 01 55.70	−15 02 44.8	14.7	N	585
48P	2018 06 07.00291	22 01 55.76	−15 02 44.7	14.8	N	585

48P	2018 06 07.00361	22 01 55.81	−15 02 44.7	14.7	N		585
48P	2018 06 07.00432	22 01 55.86	−15 02 44.7	14.8	N		585
48P	2018 06 07.00504	22 01 55.93	−15 02 44.7	14.7	N		585
48P	2018 06 07.00575	22 01 55.97	−15 02 44.9	14.9	N		585
48P	2018 06 07.00646	22 01 56.05	−15 02 44.6	14.6	N		585
48P	2018 06 07.00717	22 01 56.10	−15 02 45.4	14.8	N		585
48P	2018 06 07.00788	22 01 56.14	−15 02 45.2	14.9	N		585
48P	2018 06 07.00859	22 01 56.20	−15 02 45.4	14.6	N		585
48P	2018 06 08.36523	22 03 44.56	−15 04 26.5	15.8	R		H15
48P	2018 06 08.37357	22 03 45.12	−15 04 26.8	16.2	R		H15
48P	2018 06 08.37979	22 03 45.60	−15 04 27.5	15.9	R		H15
48P	2018 06 09.37247	22 05 03.62	−15 05 53.7	15.5	R	K	H47
48P	2018 06 09.38063	22 05 04.24	−15 05 54.4	15.2	R	K	H47
48P	2018 06 09.38952	22 05 04.92	−15 05 55.4	15.2	R	K	H47
48P	2018 06 09.39818	22 05 05.59	−15 05 56.2	15.3	R	K	H47
48P	2018 06 11.42025	22 07 41.39	−15 09 26.2	14.0	G		703
48P	2018 06 11.42522	22 07 41.71	−15 09 26.7	14.0	G		703
48P	2018 06 11.43019	22 07 42.07	−15 09 27.3	14.1	G		703
48P	2018 06 11.43516	22 07 42.47	−15 09 27.9	14.0	G		703
48P	2018 06 16.36989	22 13 45.75	−15 21 14.7	15.3	R	K	H47
48P	2018 06 16.38039	22 13 46.47	−15 21 16.5	15.2	R	K	H47
48P	2018 06 16.38930	22 13 47.09	−15 21 18.0	15.1	R	K	H47
48P	2018 06 17.21929	22 14 45.75	−15 23 38.7	14.8	R	K	I47
48P	2018 06 17.23751	22 14 47.00	−15 23 42.2	14.8	R	K	I47
48P	2018 06 17.24665	22 14 47.61	−15 23 43.5	14.8	R	K	I47
48P	2018 06 18.40483	22 16 07.69	−15 27 30.6	13.9	G		703
48P	2018 06 18.41029	22 16 08.02	−15 27 31.8	13.8	G		703
48P	2018 06 18.41575	22 16 08.38	−15 27 33.3	13.8	G		703
48P	2018 06 18.42121	22 16 08.76	−15 27 34.1	13.8	G		703
48P	2018 06 19.32973	22 17 10.73	−15 30 32.3	15.5	T	13	W88
48P	2018 06 19.33145	22 17 10.84	−15 30 32.7	15.4	T	13	W88
48P	2018 06 19.39669	22 17 15.34	−15 30 53.0	14.5	G		G96
48P	2018 06 19.40198	22 17 15.67	−15 30 54.0	14.3	G		G96
48P	2018 06 19.40727	22 17 16.01	−15 30 55.3	14.3	G		G96
48P	2018 06 19.41256	22 17 16.33	−15 30 56.2	14.1	G		G96
48P	2018 06 22.71958	22 20 53.07	−15 43 33.7	15.0	N		Q68
48P	2018 06 22.74853	22 20 54.82	−15 43 41.3	15.1	N		Q68
48P	2018 06 24.09071	22 22 19.35	−15 49 40.4	14.8	N		J01
48P	2018 06 24.10205	22 22 19.97	−15 49 43.7	14.8	N		J01
48P	2018 06 24.11330	22 22 20.68	−15 49 47.3	14.9	N		J01
48P	2018 06 25.35805	22 23 36.76	−15 55 33.8	14.8	R	K	H47
48P	2018 06 25.36928	22 23 37.40	−15 55 37.1	14.9	R	K	H47
48P	2018 06 25.38004	22 23 38.03	−15 55 40.3	14.9	R	K	H47
48P	2018 06 25.59597	22 23 50.94	−15 56 41.9	14.7	o		T05
48P	2018 06 25.60625	22 23 51.53	−15 56 44.9	14.7	o		T05
48P	2018 06 25.61614	22 23 52.10	−15 56 47.8	14.7	o		T05
48P	2018 06 26.35469	22 24 36.28	−16 00 27.4	14.8	R		H47
48P	2018 06 26.36098	22 24 36.64	−16 00 29.4	15.0	R		H47
48P	2018 06 26.36388	22 24 36.80	−16 00 30.3	14.9	R		H47
48P	2018 06 26.36761	22 24 37.01	−16 00 31.5	14.9	R		H47
48P	2018 06 26.58042	22 24 49.45	−16 01 34.6	14.7	o		T08
48P	2018 06 26.59201	22 24 50.09	−16 01 38.1	14.7	o		T08
48P	2018 06 26.60223	22 24 50.66	−16 01 41.2	14.7	o		T08
48P	2018 06 26.61290	22 24 51.27	−16 01 44.5	14.6	o		T08
48P	2018 06 29.50092	22 27 35.76	−16 17 22.2	14.6	o		T05
48P	2018 06 29.50909	22 27 36.18	−16 17 24.9	14.6	o		T05
48P	2018 06 29.51716	22 27 36.63	−16 17 27.9	14.6	o		T05
48P	2018 06 29.52528	22 27 37.04	−16 17 30.7	14.7	o		T05
48P	2018 06 30.05473	22 28 05.88	−16 20 36.9	14.8	N		C23
48P	2018 06 30.05922	22 28 06.16	−16 20 38.5	15.2	N		C23
48P	2018 06 30.06297	22 28 06.30	−16 20 41.1	15.0	N		C23
48P	2018 06 30.56143	22 28 33.07	−16 23 35.8	15.1	o		T08
48P	2018 06 30.56705	22 28 33.35	−16 23 37.7	14.6	o		T08
48P	2018 06 30.57775	22 28 33.89	−16 23 41.7	14.6	o		T08
48P	2018 06 30.58910	22 28 34.47	−16 23 45.8	14.6	o		T08
48P	2018 07 05.07600	22 32 20.15	−16 53 05.3	14.2	N		J01
48P	2018 07 05.08704	22 32 20.68	−16 53 09.6	14.2	N		J01
48P	2018 07 05.10184	22 32 21.34	−16 53 16.4	14.3	N		J01
48P	2018 07 08.04757	22 34 33.08	−17 15 06.5	14.5	N		C23
48P	2018 07 08.05057	22 34 33.21	−17 15 08.2	15.0	N		C23
48P	2018 07 08.05356	22 34 33.32	−17 15 09.4	15.0	N		C23
48P	2018 07 08.14057	22 34 37.05	−17 15 48.5	14.4	N		J22
48P	2018 07 08.14252	22 34 37.18	−17 15 49.4	14.4	N		J22
48P	2018 07 08.14647	22 34 37.30	−17 15 52.3	14.4	N		J22
48P	2018 07 09.04447	22 35 14.83	−17 22 57.6	14.3	N		J01
48P	2018 07 09.05565	22 35 15.23	−17 23 03.3	14.3	N		J01
48P	2018 07 09.07429	22 35 15.91	−17 23 12.1	14.3	N		J01
48P	2018 07 09.58202	22 35 36.255	−17 27 16.74	15.5	w		F51
48P	2018 07 09.59086	22 35 36.597	−17 27 21.11	15.3	w		F51
48P	2018 07 09.60853	22 35 37.252	−17 27 29.68	15.3	w		F51
48P	2018 07 10.54023	22 36 14.03	−17 35 09.8	14.6	c		T05
48P	2018 07 10.54297	22 36 14.13	−17 35 11.1	14.6	c		T05
48P	2018 07 10.55626	22 36 14.60	−17 35 17.8	14.6	c		T05
48P	2018 07 10.56179	22 36 14.81	−17 35 20.8	15.3	c		T05
48P	2018 07 11.34148	22 36 44.45	−17 41 56.5	14.6	R	K	H47
48P	2018 07 11.35093	22 36 44.76	−17 42 01.6	14.6	R	K	H47
48P	2018 07 11.36318	22 36 45.18	−17 42 07.8	14.6	R	K	H47
48P	2018 07 11.57485	22 36 53.29	−17 43 49.1	15.0	G	;	Q62
48P	2018 07 11.57587	22 36 53.33	−17 43 49.5	15.0	G	;	Q62
48P	2018 07 11.57667	22 36 53.36	−17 43 50.3	15.0	G	;	Q62
48P	2018 07 11.57748	22 36 53.36	−17 43 50.7	15.0	G	;	Q62
48P	2018 07 11.57828	22 36 53.43	−17 43 50.6	13.6	T	;	Q62
48P	2018 07 12.06940	22 37 10.78	−17 48 13.5	13.2	V	K	A77
48P	2018 07 12.07374	22 37 10.78	−17 48 13.6	13.3	V	K	A77
48P	2018 07 12.07806	22 37 10.76	−17 48 13.6	13.4	V	K	A77
48P	2018 07 12.15951	22 37 14.58	−17 48 51.8	14.9	R	13	W88
48P	2018 07 12.16124	22 37 14.65	−17 48 52.8	14.7	R	13	W88
48P	2018 07 12.57944	22 37 29.48	−17 52 32.6	15.3	V		Q38
48P	2018 07 12.58289	22 37 29.72	−17 52 34.2	15.2	V		Q38
48P	2018 07 12.58587	22 37 29.85	−17 52 35.0	13.5	T		Q38
48P	2018 07 13.13867	22 37 48.72	−17 57 39.5	15.1	N	2	G40
48P	2018 07 13.13962	22 37 48.76	−17 57 39.4	14.5	N	2	G40
48P	2018 07 13.14064	22 37 48.81	−17 57 40.3	15.1	N	2	G40
48P	2018 07 13.71193	22 38 08.13	−18 02 49.6			K	D81
48P	2018 07 13.71599	22 38 08.23	−18 02 51.9			K	D81
48P	2018 07 13.72369	22 38 08.46	−18 02 55.8	13.4	T	K	D81

48P	2018 07 14.03334	22 38 18.82	−18 05 44.1	14.4	N	J01	48P	2018 07 24.73445	22 42 34.13	−19 55 14.2	14.3	N		Q68
48P	2018 07 14.04785	22 38 19.34	−18 05 53.9	14.3	N	J01	48P	2018 07 25.09351	22 42 39.51	−19 59 26.8	14.0	V		A77
48P	2018 07 14.06228	22 38 19.80	−18 06 01.9	14.3	N	J01	48P	2018 07 25.09961	22 42 39.50	−19 59 30.5	14.0	V		A77
48P	2018 07 15.17164	22 38 55.00	−18 16 18.7	14.4	N	J22	48P	2018 07 25.10566	22 42 39.57	−19 59 35.8	14.0	V		A77
48P	2018 07 15.17564	22 38 55.12	−18 16 20.8	14.4	N	J22	48P	2018 07 25.19485	22 42 40.79	−20 00 35.0	14.5	N	9	G40
48P	2018 07 15.17957	22 38 55.19	−18 16 23.4	14.4	N	J22	48P	2018 07 25.19802	22 42 40.83	−20 00 36.8	14.5	N	9	G40
48P	2018 07 16.04774	22 39 21.63	−18 24 38.6	14.2	N	J01	48P	2018 07 26.42640	22 42 57.36	−20 14 35.3	14.9	o		T05
48P	2018 07 16.05514	22 39 21.84	−18 24 42.8	14.2	N	J01	48P	2018 07 26.43441	22 42 57.44	−20 14 40.8	13.9	o		T05
48P	2018 07 16.05882	22 39 21.95	−18 24 44.7	14.2	N	J01	48P	2018 07 26.44231	22 42 57.51	−20 14 46.3	13.9	o		T05
48P	2018 07 16.51949	22 39 35.27	−18 29 09.0	14.2	o	T08	48P	2018 07 26.45026	22 42 57.58	−20 14 51.6	13.9	o		T05
48P	2018 07 16.53101	22 39 35.57	−18 29 15.8	14.1	o	T08	48P	2018 08 01.48494	22 43 39.12	−21 26 27.6	13.9	o		T08
48P	2018 07 16.53331	22 39 35.63	−18 29 17.1	14.2	o	T08	48P	2018 08 01.48862	22 43 39.11	−21 26 30.8	14.5	o		T08
48P	2018 07 16.54577	22 39 35.94	−18 29 24.4	14.2	o	T08	48P	2018 08 01.50613	22 43 39.08	−21 26 43.1	13.8	o		T08
48P	2018 07 17.04215	22 39 50.07	−18 34 17.3	14.3	N	L27	48P	2018 08 01.51533	22 43 39.07	−21 26 50.3	14.5	o		T08
48P	2018 07 17.06403	22 39 50.69	−18 34 28.8	14.2	N	L27	48P	2018 08 02.21530	22 43 40.09	−21 35 15.4	13.9	N	13	W88
48P	2018 07 17.08660	22 39 51.26	−18 34 43.3	14.3	N	L27	48P	2018 08 02.21699	22 43 40.14	−21 35 17.3	13.9	N	13	W88
48P	2018 07 18.04657	22 40 17.18	−18 44 14.0	14.3	N	C23	48P	2018 08 03.57935	22 43 39.21	−21 52 08.0	14.2	c		T05
48P	2018 07 18.05031	22 40 17.31	−18 44 16.3	14.8	N	C23	48P	2018 08 03.58769	22 43 39.18	−21 52 14.2	14.2	c		T05
48P	2018 07 18.05481	22 40 17.38	−18 44 18.7	14.5	N	C23	48P	2018 08 03.59602	22 43 39.13	−21 52 20.2	14.2	c		T05
48P	2018 07 18.58784	22 40 31.28	−18 49 30.8	14.5	N	Q68	48P	2018 08 03.60438	22 43 39.10	−21 52 26.4	14.2	c		T05
48P	2018 07 18.79100	22 40 35.78	−18 51 33.6	14.4	N	Q68	48P	2018 08 03.98553	22 43 38.88	−21 57 11.4	15.0	V	K	A71
48P	2018 07 19.57063	22 40 55.30	−18 59 33.3	14.4	N	Q68	48P	2018 08 03.99078	22 43 38.84	−21 57 15.1	15.0	V	K	A71
48P	2018 07 19.79736	22 40 59.98	−19 01 52.9	14.4	N	Q68	48P	2018 08 03.99567	22 43 38.81	−21 57 19.2	15.1	V	K	A71
48P	2018 07 20.51590	22 41 16.61	−19 09 30.3	14.1	o	T08	48P	2018 08 04.73129	22 43 36.53	−22 06 23.8			K	D81
48P	2018 07 20.51774	22 41 16.65	−19 09 31.8	14.7	o	T08	48P	2018 08 04.73510	22 43 36.50	−22 06 25.1			K	D81
48P	2018 07 20.52788	22 41 16.84	−19 09 38.0	14.2	o	T08	48P	2018 08 04.73892	22 43 36.50	−22 06 28.6			K	D81
48P	2018 07 20.54306	22 41 17.12	−19 09 47.5	14.1	o	T08	48P	2018 08 04.74273	22 43 36.57	−22 06 31.6	13.5	T	K	D81
48P	2018 07 20.69458	22 41 20.47	−19 11 24.9	13.1	T	349	48P	2018 08 05.66499	22 43 32.96	−22 17 58.3	12.8	T		Q11
48P	2018 07 20.69883	22 41 20.55	−19 11 27.6			349	48P	2018 08 05.67785	22 43 32.86	−22 18 07.8				Q11
48P	2018 07 20.70311	22 41 20.64	−19 11 30.4			349	48P	2018 08 05.68215	22 43 32.83	−22 18 11.1				Q11
48P	2018 07 20.73275	22 41 21.28	−19 11 48.9			K 367	48P	2018 08 06.00113	22 43 31.33	−22 22 09.2	13.7	N		K77
48P	2018 07 20.73311	22 41 21.18	−19 11 40.3	14.4	N	Q68	48P	2018 08 06.00403	22 43 31.32	−22 22 11.5	13.7	N		K77
48P	2018 07 20.73397	22 41 21.30	−19 11 49.8			K 367	48P	2018 08 07.78721	22 43 19.14	−22 44 20.9				K 367
48P	2018 07 20.73559	22 41 21.33	−19 11 50.8	12.4	T	K 367	48P	2018 08 07.78883	22 43 19.12	−22 44 22.2				K 367
48P	2018 07 20.82736	22 41 22.92	−19 12 39.7	14.5	N	Q68	48P	2018 08 07.79005	22 43 19.10	−22 44 23.1	12.6	T		K 367
48P	2018 07 21.56534	22 41 39.02	−19 20 29.8	14.4	N	Q68	48P	2018 08 09.07660	22 43 08.43	−23 00 14.7	14.2	N		W96
48P	2018 07 21.69746	22 41 41.33	−19 21 54.4	14.4	N	Q68	48P	2018 08 09.09876	22 43 08.18	−23 00 31.8	14.3	N		W96
48P	2018 07 22.00481	22 41 47.61	−19 25 22.7	14.4	N	C23	48P	2018 08 09.12503	22 43 07.87	−23 00 51.5	14.3	N		W96
48P	2018 07 22.01005	22 41 47.67	−19 25 26.1	14.6	N	C23	48P	2018 08 09.62118	22 43 02.55	−23 07 00.4	14.6	G		Q38
48P	2018 07 22.01529	22 41 47.79	−19 25 29.1	14.3	N	C23	48P	2018 08 09.62412	22 43 02.48	−23 07 02.7	14.6	G		Q38
48P	2018 07 22.04351	22 41 48.48	−19 25 46.4	14.1	N	J22	48P	2018 08 09.62657	22 43 02.46	−23 07 04.4	14.7	G		Q38
48P	2018 07 22.04939	22 41 48.65	−19 25 48.6	14.1	N	J22	48P	2018 08 10.07286	22 42 57.40	−23 12 46.8	14.4	G		A77
48P	2018 07 22.05133	22 41 48.71	−19 25 49.7	14.1	N	J22	48P	2018 08 10.07535	22 42 57.36	−23 12 47.9	14.4	G		A77
48P	2018 07 22.50156	22 41 57.01	−19 30 42.7	14.0	o	T05	48P	2018 08 10.07851	22 42 57.34	−23 12 50.4	14.4	G		A77
48P	2018 07 22.50384	22 41 57.05	−19 30 44.2	14.0	o	T05	48P	2018 08 10.08166	22 42 57.28	−23 12 52.7	14.4	G		A77
48P	2018 07 22.51444	22 41 57.21	−19 30 51.2	14.0	o	T05	48P	2018 08 11.03933	22 42 46.08	−23 24 44.6	13.8	N		J01
48P	2018 07 22.52226	22 41 57.33	−19 30 56.2	14.0	o	T05	48P	2018 08 11.05378	22 42 45.88	−23 24 55.3	13.8	N		J01
48P	2018 07 22.56194	22 41 58.33	−19 31 14.4	14.4	N	Q68	48P	2018 08 11.06321	22 42 45.63	−23 25 02.5	14.3	N	K	A77
48P	2018 07 22.69030	22 42 00.35	−19 32 38.1	14.4	N	Q68	48P	2018 08 11.06799	22 42 45.53	−23 25 05.9	14.3	N	K	A77
48P	2018 07 23.06785	22 42 07.27	−19 36 55.5	14.1	N	J01	48P	2018 08 11.06828	22 42 45.64	−23 25 06.0	13.8	N		J01
48P	2018 07 23.07503	22 42 07.43	−19 37 00.1	14.2	N	J01	48P	2018 08 11.07271	22 42 45.51	−23 25 09.4	14.2	N	K	A77
48P	2018 07 23.08223	22 42 07.54	−19 37 05.2	14.2	N	J01	48P	2018 08 11.23790	22 42 43.53	−23 27 03.6	14.0	N		W96
48P	2018 07 24.68855	22 42 33.59	−19 54 44.6	14.3	N	Q68	48P	2018 08 11.26987	22 42 42.98	−23 27 27.0	14.1	N		W96

48P	2018 08 12.00083	22 42 33.45	−23 36 36.8	14.6	V	K 215	48P	2018 08 30.26070	22 35 55.50	−26 55 47.2	13.9	N	W96
48P	2018 08 12.00211	22 42 33.43	−23 36 37.8	14.6	V	K 215	48P	2018 08 30.29431	22 35 54.55	−26 56 04.4	14.0	N	W96
48P	2018 08 12.00339	22 42 33.42	−23 36 38.3	14.7	V	K 215	48P	2018 08 31.41801	22 35 25.76	−27 05 52.5	13.6	o	T05
48P	2018 08 12.56240	22 42 25.66	−23 43 20.3	14.1	N	Q68	48P	2018 08 31.42735	22 35 25.49	−27 05 57.4	13.6	o	T05
48P	2018 08 12.78027	22 42 21.88	−23 45 58.7	13.9	N	Q68	48P	2018 08 31.44327	22 35 25.02	−27 06 05.4	13.6	o	T05
48P	2018 08 12.96294	22 42 19.60	−23 48 24.3	14.4	V	K A71	48P	2018 08 31.44876	22 35 24.85	−27 06 08.1	13.6	o	T05
48P	2018 08 12.96749	22 42 19.55	−23 48 27.4	14.3	V	K A71	48P	2018 09 02.10378	22 34 41.86	−27 19 41.1	13.9	N	J22
48P	2018 08 12.97204	22 42 19.45	−23 48 30.9	14.3	V	K A71	48P	2018 09 02.10772	22 34 41.75	−27 19 43.2	13.9	N	J22
48P	2018 08 12.97659	22 42 19.37	−23 48 33.8	14.2	V	K A71	48P	2018 09 02.11179	22 34 41.65	−27 19 45.3	13.9	N	J22
48P	2018 08 13.46095	22 42 12.07	−23 54 27.1	13.7	o	T08	48P	2018 09 03.27116	22 34 11.90	−27 28 35.6	14.1	N	W96
48P	2018 08 13.46464	22 42 12.01	−23 54 29.7	13.7	o	T08	48P	2018 09 03.30097	22 34 11.11	−27 28 48.1	14.0	N	W96
48P	2018 08 13.47453	22 42 11.81	−23 54 36.8	13.7	o	T08	48P	2018 09 04.49204	22 33 41.66	−27 37 31.5	14.5	G	; Q62
48P	2018 08 13.48993	22 42 11.50	−23 54 48.3	13.7	o	T08	48P	2018 09 04.49284	22 33 41.65	−27 37 31.8	14.5	G	; Q62
48P	2018 08 15.00556	22 41 46.58	−24 13 12.5	13.2	N	K77	48P	2018 09 04.49365	22 33 41.56	−27 37 31.8	14.6	G	; Q62
48P	2018 08 15.01137	22 41 46.44	−24 13 16.5	13.3	N	K77	48P	2018 09 04.49447	22 33 41.58	−27 37 32.6	13.1	T	; Q62
48P	2018 08 15.01139	22 41 46.60	−24 13 17.8	13.7	N	J01	48P	2018 09 04.49529	22 33 41.51	−27 37 32.7	14.6	G	; Q62
48P	2018 08 15.01859	22 41 46.46	−24 13 22.1	13.7	N	J01	48P	2018 09 06.39788	22 32 54.56	−27 50 35.0	13.7	o	T08
48P	2018 08 15.03902	22 41 46.12	−24 13 37.1	14.1	R	K A77	48P	2018 09 06.40662	22 32 54.30	−27 50 38.1	13.8	o	T08
48P	2018 08 15.04016	22 41 46.05	−24 13 37.6	13.7	N	J01	48P	2018 09 06.40709	22 32 54.30	−27 50 38.7	13.7	o	T08
48P	2018 08 15.04467	22 41 45.80	−24 13 41.7	14.1	R	K A77	48P	2018 09 06.41447	22 32 54.08	−27 50 41.5	13.7	o	T08
48P	2018 08 15.05052	22 41 45.70	−24 13 45.8	13.3	R	K A77	48P	2018 09 06.41493	22 32 54.07	−27 50 41.4	13.8	o	T08
48P	2018 08 15.46740	22 41 38.56	−24 18 44.0	14.0	c	T05	48P	2018 09 06.42187	22 32 53.89	−27 50 44.3	13.7	o	T08
48P	2018 08 15.47105	22 41 38.46	−24 18 46.5	14.0	c	T05	48P	2018 09 06.42279	22 32 53.86	−27 50 44.6	13.8	o	T08
48P	2018 08 15.47902	22 41 38.30	−24 18 52.6	14.8	c	T05	48P	2018 09 06.42417	22 32 53.81	−27 50 45.2	13.7	o	T08
48P	2018 08 15.48176	22 41 38.25	−24 18 54.5	14.8	c	T05	48P	2018 09 06.42831	22 32 53.69	−27 50 46.8	13.7	o	T08
48P	2018 08 16.47064	22 41 20.56	−24 30 32.1	13.9	N	Q68	48P	2018 09 06.43062	22 32 53.64	−27 50 47.7	13.8	o	T08
48P	2018 08 16.67369	22 41 16.20	−24 32 57.6	13.8	N	Q68	48P	2018 09 06.43108	22 32 53.63	−27 50 47.9	13.7	o	T08
48P	2018 08 17.02426	22 41 09.79	−24 37 15.2	13.5	N	J22	48P	2018 09 06.44007	22 32 53.37	−27 50 51.2	13.7	o	T08
48P	2018 08 17.02834	22 41 09.67	−24 37 19.1	13.5	N	J22	48P	2018 09 06.54266	22 32 51.33	−27 51 23.3	14.3	N	323
48P	2018 08 17.03227	22 41 09.59	−24 37 21.3	13.5	N	J22	48P	2018 09 06.56840	22 32 50.69	−27 51 33.5	14.3	N	323
48P	2018 08 17.44902	22 41 01.35	−24 42 14.4	13.7	o	T08	48P	2018 09 06.95260	22 32 41.31	−27 54 08.6	13.8	N	J01
48P	2018 08 17.45776	22 41 01.14	−24 42 20.6	13.6	o	T08	48P	2018 09 06.96711	22 32 40.88	−27 54 14.2	13.8	N	J01
48P	2018 08 17.46052	22 41 01.08	−24 42 22.4	13.6	o	T08	48P	2018 09 06.98164	22 32 40.51	−27 54 19.9	13.7	N	J01
48P	2018 08 17.46809	22 41 01.30	−24 42 19.5	13.9	N	Q68	48P	2018 09 07.28346	22 32 32.83	−27 56 04.2	14.3	N	W96
48P	2018 08 17.47087	22 41 00.83	−24 42 29.8	13.6	o	T08	48P	2018 09 07.31038	22 32 32.19	−27 56 13.2	14.3	N	W96
48P	2018 08 17.63230	22 40 57.65	−24 44 25.6			D95	48P	2018 09 07.33805	22 32 31.45	−27 56 23.6	14.3	N	W96
48P	2018 08 17.63522	22 40 57.59	−24 44 27.5			D95	48P	2018 09 07.53670	22 32 27.42	−27 57 36.0	14.5	G	Q38
48P	2018 08 17.63815	22 40 57.51	−24 44 29.7	12.2	T	D95	48P	2018 09 07.53914	22 32 27.37	−27 57 37.0	14.5	G	Q38
48P	2018 08 17.63878	22 40 57.52	−24 44 30.2	12.3	T	349	48P	2018 09 07.54159	22 32 27.31	−27 57 37.8	14.6	G	Q38
48P	2018 08 17.64341	22 40 57.43	−24 44 33.1			349	48P	2018 09 07.54402	22 32 27.23	−27 57 38.9	14.5	G	Q38
48P	2018 08 17.67557	22 40 56.67	−24 44 45.0	13.8	N	Q68	48P	2018 09 08.40939	22 32 07.07	−28 02 52.4	13.7	o	T05
48P	2018 08 17.99264	22 40 50.63	−24 48 36.9	14.1	N	9 G40	48P	2018 09 08.40985	22 32 07.06	−28 02 52.7	13.7	o	T05
48P	2018 08 18.02691	22 40 49.84	−24 49 01.0	14.2	N	9 G40	48P	2018 09 08.41888	22 32 06.82	−28 02 55.7	13.7	o	T05
48P	2018 08 19.46426	22 40 20.08	−25 05 24.6	13.9	N	Q68	48P	2018 09 08.41934	22 32 06.81	−28 02 55.9	13.6	o	T05
48P	2018 08 19.68416	22 40 14.69	−25 07 55.6	13.8	N	Q68	48P	2018 09 08.42208	22 32 06.74	−28 02 56.9	13.6	o	T05
48P	2018 08 20.01309	22 40 07.83	−25 11 50.2	13.6	N	J01	48P	2018 09 08.42300	22 32 06.71	−28 02 57.0	13.7	o	T05
48P	2018 08 20.02762	22 40 07.51	−25 11 59.9	13.7	N	J01	48P	2018 09 08.43500	22 32 06.39	−28 03 01.2	13.7	o	T05
48P	2018 08 20.05677	22 40 06.69	−25 12 20.1	13.6	N	J01	48P	2018 09 08.43545	22 32 06.38	−28 03 01.4	13.7	o	T05
48P	2018 08 20.20579	22 40 03.30	−25 13 52.3	14.6	R	Y00	48P	2018 09 09.93707	22 31 33.01	−28 11 15.3	13.8	N	J01
48P	2018 08 20.21548	22 40 03.05	−25 13 59.0	14.6	R	Y00	48P	2018 09 09.95153	22 31 32.68	−28 11 19.3	13.9	N	J01
48P	2018 08 20.22503	22 40 02.81	−25 14 05.3	14.6	R	Y00	48P	2018 09 09.95873	22 31 32.46	−28 11 21.6	13.9	N	J01
48P	2018 08 20.37666	22 39 59.25	−25 15 45.8	14.0	N	KW96	48P	2018 09 10.40280	22 31 22.81	−28 13 36.0	14.3	o	T08
48P	2018 08 20.39175	22 39 58.86	−25 15 56.4	13.3	N	KW96	48P	2018 09 10.40971	22 31 22.65	−28 13 37.8	13.8	o	T08

48P	2018 09 10.41757	22 31 22.47	−28 13 40.1	13.8	o		T08
48P	2018 09 10.42539	22 31 22.27	−28 13 42.4	13.8	o		T08
48P	2018 09 12.32329	22 30 43.72	−28 22 24.9	13.9	N		E89
48P	2018 09 12.33010	22 30 43.61	−28 22 26.0	13.9	N		E89
48P	2018 09 12.33318	22 30 43.56	−28 22 27.2	14.0	N		E89
48P	2018 09 12.34334	22 30 43.30	−28 22 30.2	13.9	N		E89
48P	2018 09 12.35082	22 30 43.16	−28 22 32.2	14.0	N		E89
48P	2018 09 12.49120	22 30 40.24	−28 23 08.6	14.1	N		Q68
48P	2018 09 12.52704	22 30 39.42	−28 23 18.4	14.1	N		Q68
48P	2018 09 14.48730	22 30 03.35	−28 30 52.9	14.1	N		Q68
48P	2018 09 14.52033	22 30 02.66	−28 30 59.8	14.1	N		Q68
48P	2018 09 15.91007	22 29 39.58	−28 35 38.8	14.4	V		K40
48P	2018 09 15.91487	22 29 39.46	−28 35 40.1	15.3	V		K40
48P	2018 09 15.92432	22 29 39.27	−28 35 41.8	15.3	V		K40
48P	2018 09 15.94529	22 29 39.01	−28 35 45.8	13.9	N		J01
48P	2018 09 15.95249	22 29 38.87	−28 35 46.3	14.0	N		J01
48P	2018 09 15.95969	22 29 38.73	−28 35 48.0	14.0	N		J01
48P	2018 09 17.50998	22 29 15.97	−28 39 55.9			K	367
48P	2018 09 17.51241	22 29 15.94	−28 39 56.3			K	367
48P	2018 09 17.51484	22 29 15.89	−28 39 56.7	12.8	T	K	367

49P/Arend-Rigaux

49P	2018 09 20.24337	10 19 25.33	+14 27 46.4	16.6	T	9	G40
49P	2018 09 20.24845	10 19 26.11	+14 27 44.5	16.6	T	9	G40

59P/Kearns-Kwee

59P	2018 08 09.20472	05 47 00.30	+30 18 48.8	18.0	T	9	G40
59P	2018 08 09.21312	05 47 01.51	+30 18 48.5	18.1	T	9	G40
59P	2018 08 13.77772	05 56 58.36	+30 20 55.1				349
59P	2018 08 13.78242	05 56 59.01	+30 20 55.8	17.5	T		349
59P	2018 08 25.78970	06 22 37.66	+30 15 38.6	17.3	T		349
59P	2018 08 25.79903	06 22 38.79	+30 15 37.6				349
59P	2018 09 05.79620	06 45 14.50	+29 58 03.7				349
59P	2018 09 05.80234	06 45 15.18	+29 58 03.4	17.2	T		349
59P	2018 09 07.22583	06 48 06.02	+29 54 59.8	19.0	N	9	G40
59P	2018 09 07.23156	06 48 06.69	+29 54 59.4	18.5	N	9	G40
59P	2018 09 12.10231	06 57 41.78	+29 43 11.0	17.7	R		113
59P	2018 09 12.11131	06 57 42.77	+29 43 09.2	17.9	R		113
59P	2018 09 16.76661	07 06 37.49	+29 30 10.4	17.1	T		349
59P	2018 09 16.77580	07 06 38.48	+29 30 09.4				349

60P/Tsuchinshan

60P	2018 09 06.11272	06 48 34.58	+23 47 42.5	18.3	N	K	I81
60P	2018 09 06.11490	06 48 34.93	+23 47 41.3	18.5	N	K	I81
60P	2018 09 06.11707	06 48 35.36	+23 47 40.9	20.0	N	K	I81
60P	2018 09 10.11368	06 59 16.98	+23 28 46.2	18.2	N		K77
60P	2018 09 10.11657	06 59 17.16	+23 28 46.3	18.3	N		K77
60P	2018 09 18.43954	07 21 37.11	+22 39 30.4	17.4	G		703
60P	2018 09 18.44507	07 21 37.98	+22 39 28.4	17.3	G		703
60P	2018 09 18.45060	07 21 38.86	+22 39 26.5	17.3	G		703
60P	2018 09 18.45613	07 21 39.77	+22 39 23.5	17.3	G		703

62P/Tsuchinshan

62P	2018 02 14.35707	14 26 08.72	+01 52 51.3	16.6	N	14	W88
62P	2018 02 14.35796	14 26 08.75	+01 52 52.7	16.6	N	14	W88
62P	2018 02 14.35885	14 26 08.78	+01 52 51.9	17.0	N	14	W88
62P	2018 04 18.98255	13 56 23.78	+05 35 42.8	18.6	N	K	160
62P	2018 04 18.98461	13 56 23.65	+05 35 43.4	19.0	N	K	160
62P	2018 04 22.56828	13 52 40.33	+05 33 41.5	17.2	T		349
62P	2018 04 22.58388	13 52 39.31	+05 33 39.8				349

64P/Swift-Gehrels

64P	2018 08 06.00943	23 57 46.93	+10 59 49.2	17.0	N		C36
64P	2018 08 06.01213	23 57 47.03	+10 59 52.8	17.0	N		C36
64P	2018 08 06.01751	23 57 47.33	+10 59 59.8	17.2	N		C36
64P	2018 08 10.10521	00 01 32.24	+12 23 21.2	17.3	N	K	160
64P	2018 08 10.10802	00 01 32.39	+12 23 24.7	17.5	N	K	160
64P	2018 08 10.11083	00 01 32.52	+12 23 27.6	16.9	N	K	160
64P	2018 08 11.13822	00 02 27.14	+12 44 50.8	16.5	T	20	G40
64P	2018 08 11.14017	00 02 27.22	+12 44 53.4	16.7	T	20	G40
64P	2018 08 13.06007	00 04 06.63	+13 25 06.1	16.7	N	K	160
64P	2018 08 13.06285	00 04 06.76	+13 25 09.5	16.8	N	K	160
64P	2018 08 13.06564	00 04 06.89	+13 25 13.0	16.7	N	K	160
64P	2018 08 13.59711	00 04 33.58	+13 36 31.4	17.5	c		T05
64P	2018 08 13.60140	00 04 33.78	+13 36 36.6	16.9	c		T05
64P	2018 08 13.61391	00 04 34.35	+13 36 52.3	16.8	c		T05
64P	2018 08 13.62743	00 04 34.99	+13 37 09.2	16.9	c		T05
64P	2018 08 13.69485	00 04 38.84	+13 38 33.0	16.0	T		349
64P	2018 08 13.70608	00 04 39.38	+13 38 47.7				349
64P	2018 08 13.71730	00 04 39.89	+13 39 01.7				349
64P	2018 08 14.25971	00 05 07.20	+13 50 42.5	13.7	N		W96
64P	2018 08 14.29337	00 05 08.73	+13 51 25.5	13.8	N		W96
64P	2018 08 14.75807	00 05 31.75	+14 01 09.6			K	367
64P	2018 08 14.76091	00 05 31.86	+14 01 13.6			K	367
64P	2018 08 14.76374	00 05 31.97	+14 01 16.9	13.8	T	K	367
64P	2018 08 14.80072	00 05 33.74	+14 02 03.7	13.5	R		D29
64P	2018 08 14.81486	00 05 34.35	+14 02 22.1	13.6	R		D29
64P	2018 08 14.82900	00 05 35.00	+14 02 40.0	13.6	R		D29
64P	2018 08 14.93043	00 05 40.75	+14 04 47.3	14.9	N		C10
64P	2018 08 14.95258	00 05 41.77	+14 05 15.9	14.9	N		C10
64P	2018 08 14.97887	00 05 42.87	+14 05 47.7	13.4	T		C10
64P	2018 08 15.06408	00 05 47.09	+14 07 40.7	14.6	R	K	A77
64P	2018 08 15.07580	00 05 47.65	+14 07 56.0	15.0	R	K	A77
64P	2018 08 15.08749	00 05 48.12	+14 08 11.2	15.1	R	K	A77
64P	2018 08 15.11157	00 05 49.26	+14 08 40.9	15.6	N	K	A77
64P	2018 08 15.11517	00 05 49.45	+14 08 46.5	15.6	N	K	A77
64P	2018 08 15.11756	00 05 49.47	+14 08 49.8	15.6	N	K	A77
64P	2018 08 15.12076	00 05 49.65	+14 08 54.2	15.6	N	K	A77
64P	2018 08 15.12685	00 05 49.97	+14 09 01.5	15.6	N	K	A77
64P	2018 08 15.12965	00 05 50.09	+14 09 05.0	15.6	N	K	A77
64P	2018 08 15.26812	00 05 57.15	+14 12 16.1	15.5	N	3	W88
64P	2018 08 15.27181	00 05 57.32	+14 12 20.6	15.6	N	3	W88
64P	2018 08 15.27528	00 05 57.48	+14 12 25.1	15.6	N	3	W88
64P	2018 08 15.35794	00 06 01.43	+14 14 00.0	15.0	R	K	H47
64P	2018 08 15.36384	00 06 01.67	+14 14 07.6	15.1	R	K	H47
64P	2018 08 15.36987	00 06 01.95	+14 14 15.7	15.1	R	K	H47
64P	2018 08 15.37620	00 06 02.24	+14 14 23.5	15.1	R	K	H47
64P	2018 08 15.39921	00 06 03.04	+14 15 03.9	14.7	N	14	W88

64P	2018 08 15.40007	00 06 03.08	+14 15 04.5	14.7	N	14W88
64P	2018 08 15.40093	00 06 03.05	+14 15 06.5	14.9	N	14W88
64P	2018 08 15.63854	00 06 15.38	+14 20 00.1			349
64P	2018 08 15.64635	00 06 15.75	+14 20 10.0	13.6	T	349
64P	2018 08 15.67888	00 06 17.54	+14 21 04.0	15.7	N	323
64P	2018 08 15.71832	00 06 19.25	+14 21 54.8	15.6	N	323
64P	2018 08 15.90841	00 06 28.70	+14 25 44.8	15.3	N	C23
64P	2018 08 15.92188	00 06 29.31	+14 26 02.2	15.0	N	C23
64P	2018 08 15.93760	00 06 30.08	+14 26 22.8	15.5	N	C23
64P	2018 08 15.96042	00 06 31.16	+14 26 52.4	15.6	R	C10
64P	2018 08 15.97186	00 06 31.68	+14 27 07.2	15.7	R	C10
64P	2018 08 15.98402	00 06 32.28	+14 27 23.1	15.8	R	C10
64P	2018 08 15.99560	00 06 32.46	+14 27 35.0	14.2	T	C10
64P	2018 08 16.01169	00 06 33.53	+14 27 58.9	15.7	N	C10
64P	2018 08 16.02176	00 06 33.99	+14 28 11.0	14.9	N	I81
64P	2018 08 16.02617	00 06 34.20	+14 28 16.7	14.9	N	I81
64P	2018 08 16.02924	00 06 34.31	+14 28 21.7	15.8	N	C10
64P	2018 08 16.03310	00 06 34.51	+14 28 25.5	15.0	N	I81
64P	2018 08 16.05763	00 06 35.63	+14 29 00.0	16.9	N	K 160
64P	2018 08 16.06044	00 06 35.75	+14 29 04.2	16.7	N	K 160
64P	2018 08 16.06323	00 06 35.88	+14 29 07.4	16.9	N	K 160
64P	2018 08 16.08001	00 06 36.67	+14 29 25.8	15.0	N	I81
64P	2018 08 16.08291	00 06 36.76	+14 29 29.4	15.0	N	I81
64P	2018 08 16.08580	00 06 36.88	+14 29 32.9	14.9	N	I81
64P	2018 08 16.10678	00 06 37.91	+14 30 02.9	15.3	N	J01
64P	2018 08 16.10976	00 06 38.05	+14 30 07.5	16.2	N	KA77
64P	2018 08 16.11396	00 06 38.27	+14 30 13.1	15.6	N	I72
64P	2018 08 16.11554	00 06 38.34	+14 30 15.2	15.6	N	I72
64P	2018 08 16.11582	00 06 38.27	+14 30 15.1	16.2	N	KA77
64P	2018 08 16.12174	00 06 38.56	+14 30 21.6	15.3	N	J01
64P	2018 08 16.12376	00 06 38.63	+14 30 25.0	16.3	N	KA77
64P	2018 08 16.13664	00 06 39.21	+14 30 40.8	15.4	N	J01
64P	2018 08 16.16152	00 06 40.39	+14 31 14.7	15.7	N	I72
64P	2018 08 16.26482	00 06 45.60	+14 33 38.4	15.5	N	W96
64P	2018 08 16.30607	00 06 47.41	+14 34 31.8	15.5	N	W96
64P	2018 08 16.64985	00 07 04.20	+14 41 58.6	15.9	N	Q68
64P	2018 08 16.68198	00 07 05.56	+14 42 40.5	15.9	N	Q68
64P	2018 08 16.93623	00 07 18.15	+14 47 56.5	17.3	G	C47
64P	2018 08 16.94066	00 07 18.37	+14 48 02.5	17.3	G	C47
64P	2018 08 16.94546	00 07 18.53	+14 48 08.4	17.2	G	C47
64P	2018 08 16.95025	00 07 18.80	+14 48 14.5	17.5	G	C47
64P	2018 08 16.95505	00 07 18.98	+14 48 21.8	17.1	G	C47
64P	2018 08 16.95985	00 07 19.24	+14 48 27.0	17.5	G	C47
64P	2018 08 16.96773	00 07 19.47	+14 48 37.7	16.4	N	C36
64P	2018 08 16.96884	00 07 19.44	+14 48 38.9	16.4	N	C36
64P	2018 08 16.96995	00 07 19.54	+14 48 40.4	16.5	N	C36
64P	2018 08 16.97108	00 07 19.60	+14 48 42.1	16.4	N	C36
64P	2018 08 16.97330	00 07 19.68	+14 48 44.9	16.4	N	C36
64P	2018 08 16.97442	00 07 19.78	+14 48 46.3	16.3	N	C36
64P	2018 08 16.97553	00 07 19.81	+14 48 47.8	16.4	N	C36
64P	2018 08 16.97850	00 07 20.10	+14 48 52.4	16.4	N	K 107
64P	2018 08 16.99481	00 07 20.80	+14 49 13.2	16.5	N	K 107
64P	2018 08 17.00024	00 07 21.36	+14 49 22.3	16.1	N	9 G40
64P	2018 08 17.01111	00 07 21.52	+14 49 34.5	16.4	N	K 107
64P	2018 08 17.01261	00 07 21.95	+14 49 38.9	16.1	N	9 G40
64P	2018 08 17.02742	00 07 22.25	+14 49 55.8	16.0	N	K 107
64P	2018 08 17.06981	00 07 24.22	+14 50 49.2	16.0	N	K02
64P	2018 08 17.07598	00 07 24.49	+14 50 57.3	16.1	N	K02
64P	2018 08 17.08372	00 07 24.87	+14 51 07.8	15.8	N	K02
64P	2018 08 17.16515	00 07 28.50	+14 52 57.0	15.7	N	J22
64P	2018 08 17.16728	00 07 28.62	+14 53 01.1	15.7	N	J22
64P	2018 08 17.17317	00 07 28.85	+14 53 07.9	15.7	N	J22
64P	2018 08 17.27755	00 07 34.04	+14 55 33.1	16.5	N	W96
64P	2018 08 17.33587	00 07 36.42	+14 56 47.1	15.2	T	W96
64P	2018 08 17.36362	00 07 38.03	+14 57 15.1	15.8	R	KH47
64P	2018 08 17.37097	00 07 38.08	+14 57 34.5	16.3	N	W96
64P	2018 08 17.37352	00 07 38.46	+14 57 28.3	15.8	R	KH47
64P	2018 08 17.38110	00 07 38.79	+14 57 38.0	15.8	R	KH47
64P	2018 08 17.65237	00 07 51.76	+15 03 41.6	16.2	N	Q68
64P	2018 08 17.65786	00 07 52.15	+15 03 37.2			D95
64P	2018 08 17.66444	00 07 52.43	+15 03 46.0			D95
64P	2018 08 17.66810	00 07 52.59	+15 03 50.5	13.2	T	D95
64P	2018 08 17.68465	00 07 53.14	+15 04 24.8	16.1	N	Q68
64P	2018 08 17.69536	00 07 53.76	+15 04 26.5	14.3	T	Q23
64P	2018 08 17.69928	00 07 53.91	+15 04 31.9	13.4	T	349
64P	2018 08 17.70027	00 07 53.96	+15 04 33.2			Q23
64P	2018 08 17.70485	00 07 54.16	+15 04 39.3			349
64P	2018 08 17.70520	00 07 54.19	+15 04 39.4			Q23
64P	2018 08 17.70913	00 07 54.36	+15 04 44.7			Q23
64P	2018 08 17.71041	00 07 54.39	+15 04 46.4			349
64P	2018 08 17.92780	00 08 04.90	+15 09 28.2	15.8	N	585
64P	2018 08 17.92851	00 08 04.93	+15 09 29.2	15.6	N	585
64P	2018 08 17.92922	00 08 04.98	+15 09 30.1	15.6	N	585
64P	2018 08 17.92993	00 08 05.00	+15 09 31.1	15.6	N	585
64P	2018 08 17.93064	00 08 05.03	+15 09 32.2	15.7	N	585
64P	2018 08 17.93099	00 08 05.02	+15 09 32.6	15.7	N	K 585
64P	2018 08 17.93134	00 08 05.03	+15 09 32.8	15.7	N	585
64P	2018 08 17.93170	00 08 05.06	+15 09 33.4	15.6	N	K 585
64P	2018 08 17.93205	00 08 05.05	+15 09 33.0	15.7	N	585
64P	2018 08 17.93276	00 08 05.11	+15 09 34.7	15.8	N	585
64P	2018 08 17.93347	00 08 05.16	+15 09 35.7	15.7	N	585
64P	2018 08 17.93489	00 08 05.22	+15 09 37.2	15.7	N	585
64P	2018 08 17.93560	00 08 05.25	+15 09 38.4	15.7	N	585
64P	2018 08 17.93630	00 08 05.27	+15 09 39.4	15.7	N	585
64P	2018 08 17.93701	00 08 05.27	+15 09 40.1	15.7	N	585
64P	2018 08 17.93772	00 08 05.34	+15 09 41.3	15.6	N	585
64P	2018 08 17.93843	00 08 05.33	+15 09 41.8	15.8	N	585
64P	2018 08 17.93914	00 08 05.37	+15 09 43.1	15.8	N	585
64P	2018 08 17.93984	00 08 05.39	+15 09 43.8	15.9	N	585
64P	2018 08 17.94055	00 08 05.46	+15 09 44.6	15.7	N	585
64P	2018 08 17.94192	00 08 05.69	+15 09 45.5	16.1	N	C23
64P	2018 08 17.94370	00 08 05.56	+15 09 48.9	15.7	N	585
64P	2018 08 17.95879	00 08 06.45	+15 10 07.3	15.9	N	C23
64P	2018 08 17.97302	00 08 07.07	+15 10 26.4	16.0	N	C23
64P	2018 08 17.99877	00 08 08.48	+15 11 02.9	16.2	N	9 G40
64P	2018 08 18.00125	00 08 08.42	+15 11 04.0	15.8	N	J01

64P	2018 08 18.00748	00 08 08.90	+15 11 14.8	16.2	N	9	G40
64P	2018 08 18.00958	00 08 08.70	+15 11 14.4	16.5	R		B96
64P	2018 08 18.01612	00 08 08.99	+15 11 23.2	16.4	R		B96
64P	2018 08 18.02103	00 08 09.19	+15 11 29.6	16.5	R		B96
64P	2018 08 18.02331	00 08 09.39	+15 11 33.0	15.9	N		J01
64P	2018 08 18.03801	00 08 10.00	+15 11 52.2	15.9	N		J01
64P	2018 08 18.04578	00 08 10.27	+15 12 02.9	16.6	N	K	A77
64P	2018 08 18.05578	00 08 10.72	+15 12 16.2	16.5	N	K	A77
64P	2018 08 18.06057	00 08 10.90	+15 12 22.3	16.6	N	K	A77
64P	2018 08 18.06536	00 08 11.05	+15 12 28.4	16.7	N	K	A77
64P	2018 08 18.06776	00 08 11.18	+15 12 32.3	17.1	N	K	160
64P	2018 08 18.07060	00 08 11.31	+15 12 36.0	17.3	N	K	160
64P	2018 08 18.07343	00 08 11.45	+15 12 39.9	17.0	N	K	160
64P	2018 08 18.19169	00 08 17.37	+15 15 25.6	16.4	N		W96
64P	2018 08 18.24050	00 08 19.33	+15 16 27.7	15.5	T		W96
64P	2018 08 18.28927	00 08 21.49	+15 17 33.5	16.3	N		W96
64P	2018 08 18.62738	00 08 37.52	+15 24 45.8	14.5	T		Q11
64P	2018 08 18.63163	00 08 37.69	+15 24 51.5				Q11
64P	2018 08 18.63799	00 08 37.97	+15 25 00.0				Q11
64P	2018 08 18.67340	00 08 39.72	+15 25 58.5	16.3	N		323
64P	2018 08 18.70012	00 08 40.83	+15 26 33.1	16.2	N		323
64P	2018 08 18.86882	00 08 48.81	+15 29 59.4	16.3	V	K	215
64P	2018 08 18.87010	00 08 48.88	+15 30 01.4	16.8	V	K	215
64P	2018 08 18.87139	00 08 48.92	+15 30 02.8	16.2	V	K	215
64P	2018 08 19.08201	00 08 58.37	+15 34 44.6	16.3	N	9	G40
64P	2018 08 19.08979	00 08 58.68	+15 34 55.3	16.2	N	9	G40
64P	2018 08 19.09157	00 08 58.42	+15 34 53.8	16.7	V	K	A71
64P	2018 08 19.09455	00 08 58.60	+15 34 58.8	17.1	N	K	160
64P	2018 08 19.09735	00 08 58.71	+15 35 02.5	17.0	N	K	160
64P	2018 08 19.09740	00 08 58.67	+15 35 01.3	16.7	V	K	A71
64P	2018 08 19.10013	00 08 58.82	+15 35 06.1	17.0	N	K	160
64P	2018 08 19.10324	00 08 58.93	+15 35 09.2	16.7	V	K	A71
64P	2018 08 19.10907	00 08 59.17	+15 35 16.8	16.7	V	K	A71
64P	2018 08 19.16739	00 09 02.49	+15 36 45.9	16.4	N		W96
64P	2018 08 19.17767	00 09 02.93	+15 36 59.3	16.2	N		W96
64P	2018 08 19.19213	00 09 03.55	+15 37 18.6	16.5	N		W96
64P	2018 08 19.65994	00 09 24.48	+15 47 37.0	16.3	N		Q68
64P	2018 08 19.69180	00 09 25.82	+15 48 19.6	16.3	N		Q68
64P	2018 08 20.07338	00 09 43.12	+15 56 29.8	16.2	N		L27
64P	2018 08 20.10179	00 09 44.55	+15 57 10.0	16.2	N	9	G40
64P	2018 08 20.10310	00 09 44.36	+15 57 08.7	16.2	N		L27
64P	2018 08 20.11240	00 09 44.97	+15 57 24.3	16.2	N	9	G40
64P	2018 08 20.12984	00 09 45.45	+15 57 43.9	16.0	N		L27
64P	2018 08 20.25832	00 09 51.47	+16 00 46.5	16.3	N		W96
64P	2018 08 20.30262	00 09 53.25	+16 01 45.2	16.1	N		W96
64P	2018 08 20.91516	00 10 20.89	+16 15 04.9	15.7	N		585
64P	2018 08 20.91587	00 10 20.92	+16 15 06.0	15.7	N		585
64P	2018 08 20.91657	00 10 20.96	+16 15 06.8	15.8	N		585
64P	2018 08 20.91728	00 10 20.92	+16 15 07.3	15.7	N		585
64P	2018 08 20.91799	00 10 21.01	+16 15 08.8	15.8	N		585
64P	2018 08 20.91870	00 10 21.05	+16 15 09.7	15.8	N		585
64P	2018 08 20.91941	00 10 21.09	+16 15 10.7	15.6	N		585
64P	2018 08 20.92012	00 10 21.11	+16 15 11.5	15.8	N		585
64P	2018 08 20.92083	00 10 21.11	+16 15 12.5	15.6	N		585
64P	2018 08 20.92154	00 10 21.17	+16 15 13.4	15.6	N		585
64P	2018 08 20.92225	00 10 21.18	+16 15 14.4	15.8	N		585
64P	2018 08 20.92296	00 10 21.23	+16 15 15.2	15.7	N		585
64P	2018 08 20.92366	00 10 21.27	+16 15 16.3	15.8	N		585
64P	2018 08 20.92437	00 10 21.29	+16 15 17.3	15.7	N		585
64P	2018 08 20.98837	00 10 24.11	+16 16 40.6	16.2	N		I81
64P	2018 08 20.99560	00 10 24.45	+16 16 50.5	16.2	N		I81
64P	2018 08 21.00140	00 10 24.66	+16 16 58.1	16.3	N		I81
64P	2018 08 21.05838	00 10 27.26	+16 18 18.8	16.2	N	9	G40
64P	2018 08 21.07193	00 10 27.81	+16 18 37.1	16.2	N	9	G40
64P	2018 08 21.07338	00 10 27.58	+16 18 36.6	17.0	N	K	160
64P	2018 08 21.07603	00 10 27.68	+16 18 40.2	17.0	N	K	160
64P	2018 08 21.07867	00 10 27.80	+16 18 43.3	17.0	N	K	160
64P	2018 08 21.08674	00 10 28.12	+16 18 52.5	16.5	N		K97
64P	2018 08 21.09451	00 10 28.44	+16 19 03.1	16.6	N		K97
64P	2018 08 21.10226	00 10 28.75	+16 19 13.8	16.5	N		K97
64P	2018 08 21.10558	00 10 28.88	+16 19 17.7	16.6	N		K97
64P	2018 08 21.23189	00 10 34.80	+16 22 19.9	16.5	N		W96
64P	2018 08 21.25405	00 10 35.67	+16 22 49.6	16.5	N		W96
64P	2018 08 21.28053	00 10 36.73	+16 23 24.8	16.4	N		W96
64P	2018 08 21.56516	00 10 48.94	+16 29 35.2	15.8	o		T05
64P	2018 08 21.56828	00 10 49.07	+16 29 39.3	15.9	o		T05
64P	2018 08 21.58934	00 10 49.89	+16 30 07.4	15.9	o		T05
64P	2018 08 21.60204	00 10 50.37	+16 30 24.1	15.9	o		T05
64P	2018 08 21.73043	00 10 56.49	+16 33 26.3	16.3	N		323
64P	2018 08 21.77951	00 10 58.43	+16 34 31.5	16.3	N		323
64P	2018 08 21.986024	00 11 07.70	+16 38 50.8	15.3	T	K	Z80
64P	2018 08 21.988446	00 11 07.84	+16 38 54.3	16.3	N	K	Z80
64P	2018 08 21.990872	00 11 07.91	+16 38 57.7	16.4	N	K	Z80
64P	2018 08 21.993291	00 11 08.04	+16 39 01.7	16.5	N	K	Z80
64P	2018 08 21.995712	00 11 08.16	+16 39 04.5	16.1	N	K	Z80
64P	2018 08 21.998131	00 11 08.26	+16 39 06.7	16.1	N	K	Z80
64P	2018 08 22.03787	00 11 09.71	+16 40 02.5	16.5	V	K	A71
64P	2018 08 22.04516	00 11 09.97	+16 40 11.8	16.6	V	K	A71
64P	2018 08 22.05247	00 11 10.27	+16 40 21.8	16.7	V	K	A71
64P	2018 08 22.07910	00 11 11.41	+16 40 57.0	16.2	N		C23
64P	2018 08 22.08509	00 11 11.67	+16 41 04.9	16.2	N		C23
64P	2018 08 22.09108	00 11 11.90	+16 41 12.7	16.1	N		C23
64P	2018 08 22.11697	00 11 12.92	+16 41 48.5	16.5	N	K	A77
64P	2018 08 22.12227	00 11 13.11	+16 41 55.7	16.6	N	K	A77
64P	2018 08 22.12547	00 11 13.27	+16 41 59.9	16.5	N	K	A77
64P	2018 08 22.12906	00 11 13.39	+16 42 05.0	16.5	N	K	A77
64P	2018 08 22.15085	00 11 15.06	+16 42 45.3	16.3	N		W96
64P	2018 08 22.16767	00 11 15.74	+16 43 08.5	16.3	N		W96
64P	2018 08 22.17028	00 11 15.21	+16 43 03.0	16.2	N	9	G40
64P	2018 08 22.18447	00 11 16.38	+16 43 31.0	16.2	N		W96
64P	2018 08 22.18693	00 11 15.85	+16 43 25.1	16.2	N	9	G40
64P	2018 08 22.35941	00 11 23.41	+16 47 15.1	15.8	R	K	H47
64P	2018 08 22.36808	00 11 23.73	+16 47 26.7	15.7	R	K	H47
64P	2018 08 22.38248	00 11 24.29	+16 47 46.0	15.7	R	K	H47
64P	2018 08 22.39395	00 11 24.73	+16 48 01.4	15.8	R	K	H47
64P	2018 08 22.91181	00 11 47.45	+16 59 31.9	16.7	V	K	A71

64P	2018 08 22.91846	00 11 47.73	+16 59 41.1	16.6	V	K A71
64P	2018 08 22.92515	00 11 48.00	+16 59 50.0	16.7	V	K A71
64P	2018 08 22.93182	00 11 48.26	+16 59 58.9	16.7	V	K A71
64P	2018 08 22.93852	00 11 48.54	+17 00 08.3	16.7	V	K A71
64P	2018 08 22.98385	00 11 50.33	+17 01 10.0	17.1	G	C47
64P	2018 08 22.99159	00 11 50.60	+17 01 20.1	16.9	G	C47
64P	2018 08 22.99971	00 11 50.92	+17 01 31.2	16.8	G	C47
64P	2018 08 23.00340	00 11 51.07	+17 01 36.3	16.5	G	C47
64P	2018 08 23.00746	00 11 51.22	+17 01 41.8	17.3	G	C47
64P	2018 08 23.09258	00 11 54.62	+17 03 36.7	15.9	N	L27
64P	2018 08 23.12377	00 11 55.82	+17 04 18.4	16.0	N	L27
64P	2018 08 23.15269	00 11 56.92	+17 04 57.3	16.1	N	L27
64P	2018 08 23.30509	00 12 03.50	+17 08 35.9	16.0	N	W96
64P	2018 08 23.34401	00 12 04.94	+17 09 27.8	16.1	N	KW96
64P	2018 08 23.37040	00 12 06.21	+17 09 52.0	16.1	R	K 850
64P	2018 08 23.37928	00 12 06.53	+17 10 04.2	15.9	R	K 850
64P	2018 08 23.40215	00 12 07.41	+17 10 34.9	16.0	R	K 850
64P	2018 08 23.41643	00 12 07.92	+17 10 53.9	16.0	R	K 850
64P	2018 08 23.66889	00 12 19.31	+17 16 47.3	16.1	N	323
64P	2018 08 23.69606	00 12 20.29	+17 17 24.1	16.3	N	323
64P	2018 08 23.72555	00 12 21.33	+17 17 50.7	15.3	R	D29
64P	2018 08 23.73968	00 12 21.83	+17 18 09.6	15.2	R	D29
64P	2018 08 23.75380	00 12 22.34	+17 18 28.2	14.9	R	D29
64P	2018 08 24.03923	00 12 34.40	+17 24 50.1	15.5	N	I81
64P	2018 08 24.04357	00 12 34.57	+17 24 56.0	15.5	N	I81
64P	2018 08 24.04646	00 12 34.69	+17 25 00.0	15.4	N	I81
64P	2018 08 24.09148	00 12 36.33	+17 26 03.2	15.8	N	L27
64P	2018 08 24.12248	00 12 37.51	+17 26 44.8	15.8	N	L27
64P	2018 08 24.15142	00 12 38.59	+17 27 23.8	15.8	N	L27
64P	2018 08 24.32236	00 12 45.99	+17 31 17.5	15.7	R	K H47
64P	2018 08 24.33015	00 12 46.27	+17 31 28.3	15.7	R	K H47
64P	2018 08 24.34041	00 12 46.64	+17 31 42.0	15.6	R	K H47
64P	2018 08 27.07671	00 14 35.57	+18 33 46.2	15.1	N	212
64P	2018 08 27.07816	00 14 35.63	+18 33 48.3	15.1	N	212
64P	2018 08 27.07958	00 14 35.65	+18 33 50.2	15.2	N	212
64P	2018 08 27.08103	00 14 35.69	+18 33 52.0	15.2	N	212
64P	2018 08 28.06855	00 15 13.16	+18 56 25.5	16.6	N	K 160
64P	2018 08 28.07133	00 15 13.21	+18 56 29.4	16.7	N	K 160
64P	2018 08 28.07412	00 15 13.30	+18 56 33.2	16.6	N	K 160
64P	2018 08 28.99624	00 15 47.88	+19 17 40.6	15.6	N	C23
64P	2018 08 29.00073	00 15 48.04	+19 17 46.9	15.5	N	C23
64P	2018 08 29.00447	00 15 48.13	+19 17 52.0	15.6	N	C23
64P	2018 08 29.30654	00 15 58.75	+19 25 03.5	16.1	N	KW96
64P	2018 08 29.32563	00 15 59.34	+19 25 29.6	16.0	N	KW96
64P	2018 08 31.92698	00 17 31.31	+20 25 18.7	15.9	R	B96
64P	2018 08 31.93352	00 17 31.49	+20 25 27.8	15.9	R	B96
64P	2018 08 31.93843	00 17 31.66	+20 25 34.9	15.8	R	B96
64P	2018 08 31.94343	00 17 31.81	+20 25 41.6	15.8	R	B96
64P	2018 08 31.97965	00 17 33.28	+20 26 36.3	16.1	N	9 G40
64P	2018 08 31.98496	00 17 33.08	+20 26 39.6	15.6	N	C23
64P	2018 08 31.98748	00 17 33.50	+20 26 47.1	16.0	N	9 G40
64P	2018 08 31.99020	00 17 33.21	+20 26 46.7	15.3	N	C23
64P	2018 08 31.99470	00 17 33.37	+20 26 53.3	15.7	N	C23
64P	2018 09 01.02900	00 17 34.43	+20 27 40.9	15.6	N	K02
64P	2018 09 01.03519	00 17 34.62	+20 27 49.6	15.5	N	K02
64P	2018 09 01.04291	00 17 34.86	+20 28 00.5	15.6	N	K02
64P	2018 09 01.08211	00 17 36.01	+20 28 56.5	16.2	V	K A77
64P	2018 09 01.08747	00 17 36.16	+20 29 04.5	16.3	V	K A77
64P	2018 09 01.09279	00 17 36.30	+20 29 10.9	16.2	V	K A77
64P	2018 09 01.14669	00 17 37.96	+20 30 26.5	15.4	R	J27
64P	2018 09 01.15110	00 17 38.11	+20 30 32.8	15.6	R	J27
64P	2018 09 01.15551	00 17 38.23	+20 30 38.8	15.7	R	J27
64P	2018 09 01.44285	00 17 47.52	+20 37 15.5	13.9	G	703
64P	2018 09 01.44818	00 17 47.60	+20 37 21.2	13.8	G	703
64P	2018 09 01.45351	00 17 47.77	+20 37 30.0	14.0	G	703
64P	2018 09 01.45884	00 17 48.15	+20 37 39.7	14.3	G	703
64P	2018 09 01.82285	00 18 01.17	+20 46 04.4	15.7	N	C36
64P	2018 09 01.82461	00 18 01.27	+20 46 07.2	15.7	N	C36
64P	2018 09 01.82638	00 18 01.32	+20 46 09.6	15.5	N	C36
64P	2018 09 01.82814	00 18 01.39	+20 46 12.3	15.8	N	C36
64P	2018 09 01.82990	00 18 01.40	+20 46 14.7	15.7	N	C36
64P	2018 09 01.83736	00 18 01.66	+20 46 24.9	15.8	N	C36
64P	2018 09 01.83824	00 18 01.73	+20 46 26.3	15.7	N	C36
64P	2018 09 01.84001	00 18 01.75	+20 46 29.0	15.7	N	C36
64P	2018 09 01.91745	00 18 04.29	+20 48 16.5	15.8	R	B96
64P	2018 09 01.91909	00 18 04.34	+20 48 18.9	15.8	R	B96
64P	2018 09 01.92563	00 18 04.53	+20 48 28.1	15.7	R	B96
64P	2018 09 01.92890	00 18 04.64	+20 48 32.7	15.8	R	B96
64P	2018 09 01.93679	00 18 04.91	+20 48 42.4	15.1	N	I81
64P	2018 09 01.94113	00 18 04.97	+20 48 48.0	15.2	N	I81
64P	2018 09 01.94403	00 18 05.09	+20 48 52.6	15.2	N	I81
64P	2018 09 02.01424	00 18 07.09	+20 50 33.0	16.1	N	K97
64P	2018 09 02.02380	00 18 07.36	+20 50 46.0	16.0	N	K97
64P	2018 09 02.04535	00 18 07.98	+20 51 16.8	16.0	N	K97
64P	2018 09 02.04797	00 18 08.24	+20 51 20.9	15.3	N	J01
64P	2018 09 02.07376	00 18 08.99	+20 51 57.2	15.3	N	J01
64P	2018 09 02.08112	00 18 09.18	+20 52 07.0	15.3	N	J01
64P	2018 09 02.11620	00 18 10.92	+20 52 51.9	15.5	V	750
64P	2018 09 02.13639	00 18 11.55	+20 53 21.1	15.4	V	750
64P	2018 09 02.14490	00 18 10.89	+20 53 35.5	16.2	N	K A77
64P	2018 09 02.14770	00 18 10.95	+20 53 39.2	16.2	N	K A77
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64P	2018 09 02.66538	00 18 28.45	+21 05 57.3	15.8	N	323
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64P	2018 09 02.84979	00 18 34.48	+21 09 56.6	16.6	N	L04
64P	2018 09 02.85725	00 18 34.72	+21 10 07.3	16.4	N	L04
64P	2018 09 02.87289	00 18 35.17	+21 10 29.2	16.5	N	L04
64P	2018 09 02.91562	00 18 36.55	+21 11 28.3	15.7	R	B96
64P	2018 09 02.92216	00 18 36.73	+21 11 37.5	15.7	R	B96
64P	2018 09 02.92707	00 18 36.84	+21 11 43.8	15.7	R	B96
64P	2018 09 02.93207	00 18 37.03	+21 11 51.4	15.8	R	B96
64P	2018 09 02.95914	00 18 37.69	+21 12 27.2	16.4	N	238
64P	2018 09 02.96719	00 18 37.91	+21 12 38.4	16.3	N	238
64P	2018 09 02.97524	00 18 38.13	+21 12 49.6	16.1	N	238
64P	2018 09 03.32848	00 18 48.69	+21 21 19.9	15.6	N	W96

64P	2018 09 03.34989	00 18 49.23	+21 21 49.9	15.6	N	W96
64P	2018 09 03.37438	00 18 49.90	+21 22 23.9	15.7	N	W96
64P	2018 09 03.44234	00 18 52.22	+21 23 46.9	15.3	G	WH06
64P	2018 09 03.44329	00 18 52.24	+21 23 48.4	15.4	G	WH06
64P	2018 09 03.44663	00 18 52.37	+21 23 53.3	15.2	G	WH06
64P	2018 09 03.44985	00 18 52.43	+21 23 57.7	15.2	G	WH06
64P	2018 09 03.45079	00 18 52.47	+21 23 58.7	15.2	G	WH06
64P	2018 09 04.52981	00 19 25.86	+21 49 09.2	15.3	o	T08
64P	2018 09 04.53576	00 19 26.00	+21 49 17.3	15.3	o	T08
64P	2018 09 04.53904	00 19 26.06	+21 49 21.4	15.4	o	T08
64P	2018 09 04.54332	00 19 26.19	+21 49 28.1	16.0	o	T08
64P	2018 09 04.55492	00 19 26.46	+21 49 43.8	15.4	o	T08
64P	2018 09 04.55678	00 19 26.50	+21 49 46.0	15.3	o	T08
64P	2018 09 04.56392	00 19 26.67	+21 49 56.0	15.3	o	T08
64P	2018 09 04.56484	00 19 26.70	+21 49 57.4	15.4	o	T08
64P	2018 09 04.90531	00 19 37.79	+21 57 45.4	15.2	N	K77
64P	2018 09 04.91110	00 19 37.91	+21 57 52.7	15.1	N	K77
64P	2018 09 05.00473	00 19 40.43	+22 00 06.7	15.9	N	K97
64P	2018 09 05.01189	00 19 40.62	+22 00 16.8	15.9	N	K97
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64P	2018 09 05.03816	00 19 41.28	+22 00 53.4	15.9	N	K97
64P	2018 09 05.23314	00 19 47.15	+22 05 40.9	15.6	N	W96
64P	2018 09 05.26220	00 19 47.84	+22 06 22.9	15.8	N	KW96
64P	2018 09 05.66423	00 20 00.08	+22 15 45.2	15.6	N	323
64P	2018 09 05.79471	00 20 03.18	+22 18 46.6	15.9	N	323
64P	2018 09 05.96311	00 20 08.66	+22 22 23.1	14.9	N	I81
64P	2018 09 05.96746	00 20 08.77	+22 22 29.0	15.0	N	I81
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64P	2018 09 06.06021	00 20 10.97	+22 24 42.9	16.2	N	K 160
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64P	2018 09 06.53574	00 20 24.35	+22 35 51.5	15.1	o	T05
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64P	2018 09 06.88399	00 20 34.95	+22 43 50.0	15.4	N	C23
64P	2018 09 06.88474	00 20 34.97	+22 43 51.3	15.4	N	C23
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64P	2018 09 07.04105	00 20 38.92	+22 47 33.3	15.0	N	J01
64P	2018 09 07.04846	00 20 39.09	+22 47 43.1	15.0	N	J01
64P	2018 09 07.05593	00 20 39.26	+22 47 53.7	15.0	N	J01
64P	2018 09 07.25924	00 20 44.69	+22 52 52.7	15.3	N	W96
64P	2018 09 07.26821	00 20 44.89	+22 53 05.1	15.3	N	W96
64P	2018 09 07.27793	00 20 45.13	+22 53 17.6	15.2	N	W96
64P	2018 09 07.54521	00 20 53.16	+22 59 32.2	15.9	G	Q38
64P	2018 09 07.54862	00 20 53.20	+22 59 36.2	15.5	G	Q38
64P	2018 09 07.55396	00 20 53.23	+22 59 44.7	16.0	G	Q38
64P	2018 09 07.81374	00 21 00.61	+23 05 26.5	15.3	N	C10
64P	2018 09 07.83589	00 21 01.19	+23 05 58.6	15.3	N	C10
64P	2018 09 07.86206	00 21 01.85	+23 06 35.3	15.2	N	C10
64P	2018 09 08.05787	00 21 06.43	+23 11 12.0	15.6	N	A77
64P	2018 09 08.06373	00 21 06.50	+23 11 20.5	15.6	N	A77
64P	2018 09 08.07012	00 21 06.67	+23 11 29.1	15.6	N	A77
64P	2018 09 08.22871	00 21 11.10	+23 15 24.8	15.4	N	W96
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64P	2018 09 08.53740	00 21 18.82	+23 22 25.1	15.1	o	T08
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64P	2018 09 08.89542	00 21 29.04	+23 30 34.6	14.7	N	I81
64P	2018 09 08.89976	00 21 29.15	+23 30 40.5	14.7	N	I81
64P	2018 09 08.90266	00 21 29.20	+23 30 44.6	14.7	N	I81
64P	2018 09 08.94250	00 21 30.05	+23 31 43.2	16.3	G	C47
64P	2018 09 08.94545	00 21 30.11	+23 31 47.5	16.0	G	C47
64P	2018 09 08.94877	00 21 30.19	+23 31 52.1	16.2	G	C47
64P	2018 09 08.95209	00 21 30.27	+23 31 56.7	16.0	G	C47
64P	2018 09 08.95541	00 21 30.33	+23 32 01.4	16.0	G	C47
64P	2018 09 08.95836	00 21 30.40	+23 32 05.6	16.2	G	C47
64P	2018 09 08.96086	00 21 30.56	+23 32 08.8	15.2	N	C10
64P	2018 09 08.96168	00 21 30.47	+23 32 10.2	16.3	G	C47
64P	2018 09 08.98648	00 21 31.13	+23 32 44.3	15.2	N	C10
64P	2018 09 09.00371	00 21 31.45	+23 33 08.8	15.6	N	K97
64P	2018 09 09.00933	00 21 31.63	+23 33 16.7	15.3	N	C10
64P	2018 09 09.01687	00 21 31.73	+23 33 26.9	15.6	N	K97
64P	2018 09 09.02406	00 21 31.89	+23 33 37.4	15.6	N	K97
64P	2018 09 09.03371	00 21 32.09	+23 33 50.7	15.6	N	K97
64P	2018 09 09.06156	00 21 32.65	+23 34 30.7	16.2	N	K 160
64P	2018 09 09.06432	00 21 32.71	+23 34 34.6	16.2	N	K 160
64P	2018 09 09.06709	00 21 32.76	+23 34 38.3	16.2	N	K 160
64P	2018 09 09.09176	00 21 33.33	+23 35 12.1	15.6	N	A77
64P	2018 09 09.09829	00 21 33.55	+23 35 21.3	15.6	N	A77
64P	2018 09 09.10228	00 21 33.62	+23 35 27.3	15.6	N	A77
64P	2018 09 09.29279	00 21 38.98	+23 39 50.7	13.7	G	G96
64P	2018 09 09.29800	00 21 39.07	+23 39 57.7	13.6	G	G96
64P	2018 09 09.30321	00 21 39.20	+23 40 05.4	13.7	G	G96
64P	2018 09 09.30841	00 21 39.33	+23 40 13.0	13.8	G	G96
64P	2018 09 09.33590	00 21 39.84	+23 40 48.1	13.2	G	703
64P	2018 09 09.34116	00 21 39.94	+23 40 54.9	13.2	G	703
64P	2018 09 09.34642	00 21 39.97	+23 41 01.2	13.1	G	703
64P	2018 09 09.35167	00 21 40.09	+23 41 08.7	13.1	G	703
64P	2018 09 09.81463	00 21 52.70	+23 51 53.4	15.5	R	K 628
64P	2018 09 09.83836	00 21 53.26	+23 52 27.0	15.7	R	K 628
64P	2018 09 09.89538	00 21 54.56	+23 53 47.4	15.5	R	K 628
64P	2018 09 09.91927	00 21 55.09	+23 54 21.0	15.9	R	K 628
64P	2018 09 10.04763	00 21 57.82	+23 57 22.2	15.6	N	A77
64P	2018 09 10.05122	00 21 57.88	+23 57 27.5	15.6	N	A77
64P	2018 09 10.05361	00 21 57.95	+23 57 30.6	15.6	N	A77
64P	2018 09 10.05681	00 21 57.99	+23 57 35.1	15.6	N	A77
64P	2018 09 10.06771	00 21 58.12	+23 57 49.4	15.6	N	K 160
64P	2018 09 10.07032	00 21 58.17	+23 57 53.1	15.5	N	K 160
64P	2018 09 10.07294	00 21 58.23	+23 57 56.7	15.5	N	K 160
64P	2018 09 10.53762	00 22 09.62	+24 08 47.2	14.7	o	T05

64P	2018 09 10.54129	00 22 09.69	+24 08 52.3	14.7	o	T05
64P	2018 09 10.55557	00 22 09.96	+24 09 11.9	14.7	o	T05
64P	2018 09 10.56237	00 22 10.08	+24 09 21.1	14.7	o	T05
64P	2018 09 10.56980	00 22 24.89	+24 10 51.9	16.4	N	G26
64P	2018 09 10.63471	00 22 25.83	+24 12 28.5	16.1	N	G26
64P	2018 09 10.82055	00 22 19.36	+24 17 08.3	15.1	N	K B67
64P	2018 09 10.82947	00 22 19.54	+24 17 21.0	15.3	N	K B67
64P	2018 09 10.83838	00 22 19.72	+24 17 33.5	15.5	N	K B67
64P	2018 09 10.86794	00 22 18.45	+24 16 14.5	15.7	N	238
64P	2018 09 10.88317	00 22 18.78	+24 16 35.8	15.6	N	238
64P	2018 09 10.89235	00 22 18.98	+24 16 48.6	15.5	N	238
64P	2018 09 10.95362	00 22 20.54	+24 18 18.8	15.0	N	213
64P	2018 09 10.95504	00 22 20.53	+24 18 20.5	14.9	N	213
64P	2018 09 10.95646	00 22 20.56	+24 18 22.8	14.9	N	213
64P	2018 09 10.99903	00 22 21.26	+24 19 21.9	15.9	N	K 160
64P	2018 09 11.00183	00 22 21.32	+24 19 25.8	15.9	N	K 160
64P	2018 09 11.00464	00 22 21.36	+24 19 29.5	16.0	N	K 160
64P	2018 09 11.03614	00 22 22.06	+24 20 11.4	15.1	N	C23
64P	2018 09 11.04063	00 22 22.14	+24 20 17.7	15.1	N	C23
64P	2018 09 11.04438	00 22 22.23	+24 20 23.0	15.1	N	C23
64P	2018 09 11.08978	00 22 23.42	+24 21 31.6	14.9	N	J22
64P	2018 09 11.09390	00 22 23.54	+24 21 37.2	14.9	N	J22
64P	2018 09 11.09784	00 22 23.54	+24 21 42.9	14.9	N	J22
64P	2018 09 11.79377	00 22 39.59	+24 37 41.7	14.0	R	D29
64P	2018 09 11.80791	00 22 39.86	+24 38 01.3	14.1	R	D29
64P	2018 09 11.81978	00 22 41.34	+24 38 12.5	15.0	R	K 628
64P	2018 09 11.82206	00 22 40.13	+24 38 20.6	14.2	R	D29
64P	2018 09 11.84408	00 22 41.89	+24 38 46.6	15.1	R	K 628
64P	2018 09 11.85915	00 22 42.15	+24 39 05.8	14.4	N	I81
64P	2018 09 11.86320	00 22 42.24	+24 39 11.6	14.5	N	I81
64P	2018 09 11.86827	00 22 42.40	+24 39 20.6	15.2	R	K 628
64P	2018 09 11.89214	00 22 42.89	+24 39 54.0	15.3	R	K 628
64P	2018 09 11.89247	00 22 42.92	+24 39 53.0	14.5	N	I81
64P	2018 09 11.89826	00 22 43.01	+24 40 01.2	14.5	N	I81
64P	2018 09 11.91632	00 22 43.38	+24 40 27.9	15.3	R	K 628
64P	2018 09 11.94040	00 22 43.85	+24 41 01.5	15.2	R	K 628
64P	2018 09 11.96442	00 22 44.25	+24 41 34.7	14.8	R	113
64P	2018 09 11.96892	00 22 44.33	+24 41 41.0	14.9	R	113
64P	2018 09 11.97344	00 22 44.41	+24 41 47.4	14.8	R	113
64P	2018 09 12.80467	00 23 03.90	+25 00 48.5	15.6	N	238
64P	2018 09 12.80764	00 23 03.96	+25 00 52.5	15.5	N	238
64P	2018 09 12.81036	00 23 04.01	+25 00 56.1	15.5	N	238
64P	2018 09 14.04640	00 23 30.75	+25 29 17.3	15.1	N	C23
64P	2018 09 14.05389	00 23 30.88	+25 29 27.3	15.1	N	C23
64P	2018 09 14.06063	00 23 30.99	+25 29 36.6	15.2	N	C23
64P	2018 09 14.25129	00 23 35.09	+25 34 15.3	15.2	N	W96
64P	2018 09 14.27296	00 23 35.45	+25 34 44.5	15.4	N	W96
64P	2018 09 14.53710	00 23 40.97	+25 40 34.4	15.1	c	T05
64P	2018 09 14.54577	00 23 41.09	+25 40 46.1	15.1	c	T05
64P	2018 09 14.55137	00 23 41.18	+25 40 53.6	15.1	c	T05
64P	2018 09 14.56546	00 23 41.40	+25 41 12.5	15.1	c	T05
64P	2018 09 14.89284	00 23 49.46	+25 48 32.0	15.5		K83
64P	2018 09 14.92047	00 23 49.93	+25 49 09.3	15.6		K83
64P	2018 09 15.00050	00 23 51.36	+25 50 57.3	14.4	N	I81
64P	2018 09 15.00484	00 23 51.44	+25 51 03.2	14.4	N	I81
64P	2018 09 15.00622	00 23 51.56	+25 51 08.6	14.8	N	J01
64P	2018 09 15.00774	00 23 51.48	+25 51 07.1	14.4	N	I81
64P	2018 09 15.01360	00 23 51.67	+25 51 19.3	14.8	N	J01
64P	2018 09 15.02100	00 23 51.81	+25 51 29.1	14.8	N	J01
64P	2018 09 15.03605	00 23 51.63	+25 51 46.7	15.0	N	A98
64P	2018 09 15.03682	00 23 51.64	+25 51 47.4	15.1	N	A98
64P	2018 09 15.03990	00 23 51.72	+25 51 51.7	15.0	N	A98
64P	2018 09 15.04066	00 23 51.70	+25 51 52.5	15.1	N	A98
64P	2018 09 15.04220	00 23 51.71	+25 51 54.6	15.4	N	A98
64P	2018 09 15.04296	00 23 51.78	+25 51 55.7	15.4	N	A98
64P	2018 09 15.04758	00 23 51.86	+25 52 01.9	15.3	N	A98
64P	2018 09 15.05066	00 23 51.84	+25 52 06.2	15.1	N	A98
64P	2018 09 15.05142	00 23 51.84	+25 52 07.5	15.0	N	A98
64P	2018 09 15.31470	00 23 57.77	+25 58 03.5	12.7	G	703
64P	2018 09 15.32035	00 23 57.79	+25 58 09.6	12.6	G	703
64P	2018 09 15.32601	00 23 57.88	+25 58 17.4	12.6	G	703
64P	2018 09 15.33166	00 23 57.94	+25 58 24.0	12.5	G	703
64P	2018 09 15.83243	00 24 09.07	+26 09 46.7	16.0	V	K40
64P	2018 09 15.89518	00 24 10.09	+26 11 10.6	15.7	N	238
64P	2018 09 15.89954	00 24 10.28	+26 11 19.2	16.0	V	K40
64P	2018 09 15.90048	00 24 10.16	+26 11 17.5	15.6	N	238
64P	2018 09 15.97558	00 24 11.59	+26 13 02.8	15.0	N	C10
64P	2018 09 15.99766	00 24 11.92	+26 13 32.6	15.0	N	C10
64P	2018 09 16.02396	00 24 12.34	+26 14 08.5	15.0	N	C10
64P	2018 09 16.50758	00 24 21.75	+26 25 08.4	14.7	o	T08
64P	2018 09 16.52416	00 24 21.98	+26 25 30.7	14.7	o	T08
64P	2018 09 16.53087	00 24 22.08	+26 25 39.5	14.7	o	T08
64P	2018 09 16.54385	00 24 22.25	+26 25 56.9	14.7	o	T08
64P	2018 09 16.57018	00 24 23.72	+26 26 28.6	12.9	T	349
64P	2018 09 16.57397	00 24 23.80	+26 26 34.2			349
64P	2018 09 17.09103	00 24 33.28	+26 38 07.8	15.5	N	A77
64P	2018 09 17.09595	00 24 33.33	+26 38 14.2	15.5	N	A77
64P	2018 09 17.10074	00 24 33.41	+26 38 20.4	15.5	N	A77
64P	2018 09 17.50069	00 24 42.45	+26 47 16.9			K 367
64P	2018 09 17.50231	00 24 42.46	+26 47 19.1			K 367
64P	2018 09 17.50353	00 24 42.49	+26 47 20.9	12.8	T	K 367
64P	2018 09 18.50382	00 25 00.50	+27 09 40.4	14.6	o	T05
64P	2018 09 18.51235	00 25 00.60	+27 09 51.9	14.6	o	T05
64P	2018 09 18.51281	00 25 00.60	+27 09 52.2	14.6	o	T05
64P	2018 09 18.51467	00 25 00.63	+27 09 54.7	14.6	o	T05
64P	2018 09 18.53016	00 25 00.81	+27 10 15.0	14.6	o	T05
64P	2018 09 18.53470	00 25 00.87	+27 10 21.0	14.6	o	T05
64P	2018 09 18.53515	00 25 00.88	+27 10 21.6	14.6	o	T05
64P	2018 09 18.54939	00 25 01.06	+27 10 40.3	14.6	o	T05
64P	2018 09 18.79112	00 25 06.95	+27 15 51.8	16.0	V	C47
64P	2018 09 18.79592	00 25 07.04	+27 15 58.2	16.3	V	C47
64P	2018 09 18.80071	00 25 07.12	+27 16 04.7	16.4	V	C47
64P	2018 09 18.80551	00 25 07.19	+27 16 11.3	15.8	V	C47
64P	2018 09 18.81031	00 25 07.27	+27 16 18.0	16.1	V	C47
64P	2018 09 18.81511	00 25 07.35	+27 16 24.2	15.9	V	C47
64P	2018 09 18.82101	00 25 07.43	+27 16 32.2	16.4	V	C47

64P	2018 09 18.878096	00 25 08.31	+27 17 47.4	14.5	G	K	G33		
64P	2018 09 18.880859	00 25 08.35	+27 17 51.2	14.6	G	K	G33		
64P	2018 09 18.882720	00 25 08.38	+27 17 53.8	14.7	G	K	G33		

65P/Gunn

65P	2017 07 29.88444	15 45 32.09	−23 03 03.7	15.2	N	K	B50		
65P	2017 07 29.88880	15 45 32.17	−23 03 04.3	15.9	N		B50		
65P	2017 07 29.89642	15 45 32.44	−23 03 08.4	16.6	N	K	B50		
65P	2018 06 02.13775	23 12 23.34	−15 27 26.5	19	R		C51		
Geocentric position (km)	+ 6794.8368	+ 520.3848	− 782.6701						
65P	2018 06 02.13788	23 12 23.16	−15 27 24.5				C51		
Geocentric position (km)	+ 6785.7992	+ 508.7855	− 865.2758						
65P	2018 06 02.59592	23 12 45.89	−15 26 33.4				C51		
Geocentric position (km)	+ 6786.0669	+ 568.5410	− 825.0960						
65P	2018 06 02.66137	23 12 49.00	−15 26 25.4				C51		
Geocentric position (km)	+ 6784.7655	+ 575.4113	− 831.1425						
65P	2018 06 02.92305	23 13 01.55	−15 25 55.9				C51		
Geocentric position (km)	+ 6788.2005	+ 614.5854	− 772.6357						
65P	2018 06 03.25030	23 13 17.49	−15 25 18.8				C51		
Geocentric position (km)	+ 6781.5781	+ 648.9357	− 802.8286						
65P	2018 06 03.38108	23 13 23.66	−15 25 06.3				C51		
Geocentric position (km)	+ 6787.0068	+ 674.3824	− 732.2411						
65P	2018 06 12.18217	23 19 50.37	−15 13 08.9	17.5	N		9 G40		
65P	2018 06 12.18762	23 19 50.53	−15 13 08.3	17.7	N		9 G40		
65P	2018 06 12.19335	23 19 50.78	−15 13 07.8	17.6	N		9 G40		
65P	2018 06 12.25556	23 19 53.22	−15 13 02.5	18.2	R		Y00		
65P	2018 06 12.26371	23 19 53.44	−15 13 02.3	18.4	R		Y00		
65P	2018 06 12.27032	23 19 53.68	−15 13 01.7	18.3	R		Y00		
65P	2018 06 18.26550	23 23 34.56	−15 09 50.3	17.5	R	K	I47		
65P	2018 06 18.27258	23 23 34.82	−15 09 49.9	17.5	R	K	I47		
65P	2018 06 18.27967	23 23 35.07	−15 09 50.6	17.5	R	K	I47		
65P	2018 06 26.58677	23 27 39.60	−15 12 25.5	17.5	o		T08		
65P	2018 06 26.59847	23 27 39.99	−15 12 26.2	17.6	o		T08		
65P	2018 06 26.60932	23 27 40.28	−15 12 25.8	17.6	o		T08		
65P	2018 07 08.19653	23 31 13.98	−15 29 37.4	17.5	N		J22		
65P	2018 07 08.20047	23 31 14.09	−15 29 37.6	17.5	N		J22		
65P	2018 07 09.05337	23 31 23.62	−15 31 31.9	17.8		K	215		
65P	2018 07 09.05466	23 31 23.62	−15 31 32.2	17.6		K	215		
65P	2018 07 09.05594	23 31 23.63	−15 31 33.1	17.5		K	215		
65P	2018 07 09.05939	23 31 23.66	−15 31 31.5	16.9	N	K	C23		
65P	2018 07 09.06164	23 31 23.73	−15 31 32.3	16.8	N	K	C23		
65P	2018 07 15.22025	23 32 05.99	−15 47 35.3	17.7	N		J22		
65P	2018 07 15.22222	23 32 05.80	−15 47 36.2	17.7	N		J22		
65P	2018 07 18.05832	23 32 09.90	−15 56 21.2	17.5	N	K	C23		
65P	2018 07 18.06629	23 32 09.65	−15 56 25.3	16.5	N	K	C23		
65P	2018 07 21.68521	23 32 00.10	−16 08 46.8			K	D81		
65P	2018 07 21.68681	23 32 00.12	−16 08 46.2			K	D81		
65P	2018 07 21.68840	23 32 00.04	−16 08 46.3			K	D81		
65P	2018 07 21.69000	23 32 00.06	−16 08 47.0	17.4	T	K	D81		
65P	2018 07 21.76542	23 31 59.56	−16 09 02.6	16.5	T		349		
65P	2018 07 21.78006	23 31 59.44	−16 09 06.2				349		
65P	2018 07 27.10049	23 31 15.53	−16 29 27.6	17.4	N	K	L27		
65P	2018 07 27.10813	23 31 15.45	−16 29 29.2	17.4	N	K	L27		
65P	2018 07 27.11576	23 31 15.39	−16 29 30.2	17.6	N	K	L27		
65P	2018 08 05.50274	23 28 35.567	−17 10 15.03	18.3	i		F51		
65P	2018 08 05.51458	23 28 35.289	−17 10 18.33	18.7	i		F51		
65P	2018 08 05.52641	23 28 35.003	−17 10 21.58	18.3	i		F51		
65P	2018 08 05.53826	23 28 34.718	−17 10 24.90	18.6	i		F51		
65P	2018 08 06.07190	23 28 22.70	−17 12 52.4	17.4	N		J22		
65P	2018 08 06.07588	23 28 22.56	−17 12 53.1	17.4	N		J22		
65P	2018 08 06.07980	23 28 22.44	−17 12 55.8	17.4	N		J22		
65P	2018 08 06.58256	23 28 10.43	−17 15 14.8	17.3	o		T08		
65P	2018 08 06.59317	23 28 10.19	−17 15 17.5	17.4	o		T08		
65P	2018 08 06.60432	23 28 09.90	−17 15 20.3	17.3	o		T08		
65P	2018 08 06.61503	23 28 09.69	−17 15 23.3	17.7	o		T08		
65P	2018 08 07.05053	23 27 59.56	−17 17 25.1	17.0	N	K	C23		
65P	2018 08 07.05450	23 27 59.32	−17 17 26.2	16.8	N	K	C23		
65P	2018 08 07.05883	23 27 59.31	−17 17 28.0	17.1	N	K	C23		
65P	2018 08 07.50794	23 27 48.28	−17 19 32.2	17.5	c		T05		
65P	2018 08 07.51023	23 27 48.19	−17 19 33.2	17.5	c		T05		
65P	2018 08 07.51206	23 27 48.13	−17 19 34.2	17.4	c		T05		
65P	2018 08 07.52121	23 27 47.95	−17 19 36.3	17.5	c		T05		
65P	2018 08 08.58479	23 27 21.08	−17 24 35.1	17.6	c		T05		
65P	2018 08 08.59558	23 27 20.75	−17 24 38.8	17.6	c		T05		
65P	2018 08 08.60739	23 27 20.44	−17 24 41.0	17.4	c		T05		
65P	2018 08 08.62015	23 27 20.09	−17 24 45.2	17.6	c		T05		
65P	2018 08 13.48440	23 25 02.82	−17 47 49.0	17.3	o		T08		
65P	2018 08 13.50098	23 25 02.33	−17 47 53.9	17.5	o		T08		
65P	2018 08 13.51019	23 25 01.91	−17 47 57.2	17.2	o		T08		
65P	2018 08 13.51066	23 25 01.94	−17 47 56.6	17.5	o		T08		
65P	2018 08 16.01328	23 23 42.64	−17 59 53.3	17.3	N	K	C23		
65P	2018 08 16.01833	23 23 42.61	−17 59 52.7	16.8	N	K	C23		
65P	2018 08 16.02244	23 23 42.50	−17 59 54.2	17.2	N		J01		
65P	2018 08 16.02965	23 23 42.19	−17 59 56.9	17.3	N		J01		
65P	2018 08 16.04411	23 23 41.64	−18 00 01.9	17.3	N		J01		
65P	2018 08 17.66363	23 22 47.37	−18 07 40.3	16.4	T		349		
65P	2018 08 17.67510	23 22 46.98	−18 07 43.7				349		
65P	2018 08 18.09159	23 22 32.72	−18 09 42.0	17.9	N	K	A77		
65P	2018 08 18.09718	23 22 32.50	−18 09 43.3	18.0	N	K	A77		
65P	2018 08 18.10299	23 22 32.31	−18 09 45.6	18.1	N	K	A77		
65P	2018 08 18.60767	23 22 14.93	−18 12 07.9				Q11		
65P	2018 08 18.60981	23 22 14.84	−18 12 08.5				Q11		
65P	2018 08 18.62192	23 22 14.43	−18 12 11.9	16.9	T		Q11		
65P	2018 08 20.28498	23 21 15.29	−18 19 54.3	17.6	T	13	W88		
65P	2018 08 20.29909	23 21 14.66	−18 19 57.5	17.6	T	13	W88		
65P	2018 08 21.52401	23 20 29.88	−18 25 42.1	17.1	o		T08		
65P	2018 08 21.53418	23 20 29.45	−18 25 44.9	17.1	o		T08		
65P	2018 08 21.54391	23 20 29.15	−18 25 46.8	17.5	o		T08		
65P	2018 08 21.55431	23 20 28.77	−18 25 49.6	17.6	o		T08		
65P	2018 08 31.43621	23 13 57.58	−19 08 30.7	17.4	o		T05		
65P	2018 08 31.44510	23 13 57.15	−19 08 33.2	17.1	o		T05		
65P	2018 08 31.46194	23 13 56.44	−19 08 36.9	17.2	o		T05		
65P	2018 08 31.46331	23 13 56.42	−19 08 36.5	17.7	o		T05		
65P	2018 09 02.11926	23 12 47.10	−19 15 03.1	17.3	N		J22		
65P	2018 09 02.12319	23 12 46.95	−19 15 03.6	17.3	N		J22		
65P	2018 09 02.12712	23 12 46.79	−19 15 04.7	17.3	N		J22		

65P	2018 09 04.27083	23 11 16.20	−19 23 01.7	16.1	G		703
65P	2018 09 04.27582	23 11 15.91	−19 23 03.2	16.2	G		703
65P	2018 09 04.28579	23 11 15.22	−19 23 07.0	15.9	G		703
65P	2018 09 05.08768	23 10 41.70	−19 25 54.4	17.9	N	K	A77
65P	2018 09 05.09340	23 10 41.42	−19 25 55.6	17.9	N	K	A77
65P	2018 09 05.09899	23 10 41.29	−19 25 57.5	18.1	N	K	A77
65P	2018 09 07.27149	23 09 09.03	−19 33 18.5	16.7	G		703
65P	2018 09 07.27689	23 09 08.75	−19 33 19.6	16.4	G		703
65P	2018 09 07.28229	23 09 08.46	−19 33 20.7	16.4	G		703
65P	2018 09 07.28769	23 09 08.23	−19 33 21.9	16.3	G		703
65P	2018 09 07.58934	23 08 55.63	−19 34 14.6	17.5	G		Q38
65P	2018 09 07.59177	23 08 55.56	−19 34 15.0	17.7	G		Q38
65P	2018 09 07.59373	23 08 55.42	−19 34 15.7	18.7	G		Q38
65P	2018 09 08.42931	23 08 19.93	−19 36 58.4	17.1	o		T05
65P	2018 09 08.43820	23 08 19.56	−19 37 00.4	17.1	o		T05
65P	2018 09 08.43865	23 08 19.50	−19 37 00.3	17.0	o		T05
65P	2018 09 08.44186	23 08 19.38	−19 37 00.8	17.1	o		T05
65P	2018 09 09.65831	23 07 27.91	−19 40 43.0	18.2	R		D29
65P	2018 09 09.67245	23 07 27.28	−19 40 44.9	16.8	R		D29
65P	2018 09 09.68659	23 07 26.61	−19 40 48.3	16.6	R		D29
65P	2018 09 09.98076	23 07 14.22	−19 41 40.8	17.1	N		J01
65P	2018 09 09.98797	23 07 14.00	−19 41 41.4	17.1	N		J01
65P	2018 09 10.00250	23 07 13.35	−19 41 45.1	17.1	N		J01
65P	2018 09 10.24307	23 07 03.10	−19 42 27.5	16.2	G		703
65P	2018 09 10.24834	23 07 02.89	−19 42 28.1	16.1	G		703
65P	2018 09 10.25359	23 07 02.59	−19 42 29.2	16.1	G		703
65P	2018 09 10.25884	23 07 02.25	−19 42 31.8	16.0	G		703
65P	2018 09 10.41132	23 06 56.14	−19 42 54.5	17.1	o		T08
65P	2018 09 10.42079	23 06 55.72	−19 42 57.1	17.2	o		T08
65P	2018 09 10.43884	23 06 54.96	−19 42 59.5	17.5	o		T08
65P	2018 09 10.44301	23 06 54.72	−19 43 00.7	17.1	o		T08
65P	2018 09 12.50114	23 05 28.60	−19 48 34.9	17.6	N		Q68
65P	2018 09 12.54049	23 05 26.84	−19 48 40.4	17.4	N		Q68
65P	2018 09 14.49746	23 04 06.05	−19 53 30.0	17.5	N		Q68
65P	2018 09 14.53494	23 04 04.40	−19 53 35.5	17.5	N		Q68
65P	2018 09 15.98351	23 03 05.33	−19 56 53.5	17.2	N		J01
65P	2018 09 15.99787	23 03 04.74	−19 56 54.6	17.3	N		J01
65P	2018 09 16.01226	23 03 04.13	−19 56 56.3	17.3	N		J01
65P	2018 09 16.27075	23 02 53.56	−19 57 30.0	16.2	G		G96
65P	2018 09 16.27592	23 02 53.39	−19 57 29.7	16.5	G		G96
65P	2018 09 16.28626	23 02 52.93	−19 57 30.7	16.4	G		G96
65P	2018 09 16.45455	23 02 46.25	−19 57 50.5	17.9	o		T05
65P	2018 09 16.46485	23 02 45.82	−19 57 52.0	17.1	o		T05
65P	2018 09 16.47460	23 02 45.43	−19 57 53.2	18.0	o		T05
65P	2018 09 16.48477	23 02 44.98	−19 57 54.5	18.0	o		T05

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66P	2018 04 16.74569	20 25 02.84	−39 56 40.0	16.0	N	P	Q62
66P	2018 04 16.74572	20 25 02.84	−39 56 40.2	15.9	N	P	Q62
66P	2018 04 16.74737	20 25 03.40	−39 56 40.3	16.0	N	P	Q62
66P	2018 04 19.75019	20 41 40.20	−39 58 39.0	15.5	N		Q68
66P	2018 04 19.76750	20 41 45.90	−39 58 38.9	15.5	N		Q68
66P	2018 05 20.39637	23 12 54.07	−34 24 17.8	15.7	N	12	W88
66P	2018 05 20.39941	23 12 54.76	−34 24 14.1	15.7	N	12	W88
66P	2018 05 20.40293	23 12 55.62	−34 24 10.8	15.7	N	12	W88
66P	2018 06 17.30006	00 38 28.19	−25 51 01.6	12.0	R	K	I47
66P	2018 06 17.31347	00 38 29.95	−25 50 48.7	12.0	R	K	I47
66P	2018 06 22.71037	00 49 41.17	−24 21 23.9	15.9	N		Q68
66P	2018 06 22.73911	00 49 44.51	−24 20 57.2	15.8	N		Q68
66P	2018 07 02.75485	01 06 29.77	−21 51 11.5	13.4	T		349
66P	2018 07 02.76373	01 06 30.48	−21 51 04.6				349
66P	2018 07 06.59944	01 11 36.00	−20 59 33.2	16.3	o		T05
66P	2018 07 06.60728	01 11 36.61	−20 59 27.2	17.0	o		T05
66P	2018 07 06.61835	01 11 37.30	−20 59 18.3	16.1	o		T05
66P	2018 07 10.70323	01 16 14.79	−20 08 03.6			1	Q62
66P	2018 07 10.70486	01 16 14.88	−20 08 02.0	13.2	w	1	Q62
66P	2018 07 12.60767	01 18 06.84	−19 45 39.9	16.4	o		T08
66P	2018 07 12.61044	01 18 07.00	−19 45 37.8	16.3	o		T08
66P	2018 07 12.62335	01 18 07.72	−19 45 29.2	16.5	o		T08
66P	2018 07 12.62428	01 18 07.77	−19 45 29.3	16.3	o		T08
66P	2018 07 13.42138	01 18 51.69	−19 36 18.6	16.6	R		H47
66P	2018 07 13.42661	01 18 51.94	−19 36 16.4	16.8	R	K	H47
66P	2018 07 14.15497	01 19 30.31	−19 27 57.4	16.5	N		J22
66P	2018 07 14.16282	01 19 30.93	−19 27 52.7	16.5	N		J22
66P	2018 07 15.42298	01 20 33.21	−19 13 53.9	16.8	R		H47
66P	2018 07 15.42638	01 20 33.32	−19 13 52.0	16.7	R		H47
66P	2018 07 15.77197	01 20 49.69	−19 10 05.3	14.0	T		349
66P	2018 07 15.77809	01 20 49.93	−19 10 00.6				349
66P	2018 07 16.41852	01 21 19.31	−19 03 03.3	17.0	R		H47
66P	2018 07 16.42301	01 21 19.41	−19 03 00.3	17.1	R		H47
66P	2018 07 16.42913	01 21 19.75	−19 02 56.3	16.9	R		H47
66P	2018 07 16.60170	01 21 27.31	−19 01 03.6	16.6	o		T08
66P	2018 07 16.60957	01 21 27.74	−19 00 59.6	17.2	o		T08
66P	2018 07 16.61744	01 21 28.00	−19 00 53.9	16.6	o		T08
66P	2018 07 16.61790	01 21 28.13	−19 00 54.1	17.1	o		T08
66P	2018 07 18.73613	01 22 55.06	−18 38 31.2	16.9	N		Q68
66P	2018 07 18.81740	01 22 57.87	−18 37 41.0	16.9	N		Q68
66P	2018 07 19.68353	01 23 29.77	−18 28 51.9	16.8	N		Q68
66P	2018 07 19.82249	01 23 34.18	−18 27 28.8	16.9	N		Q68
66P	2018 07 20.58777	01 24 00.11	−18 19 59.7	17.3	o		T08
66P	2018 07 20.60024	01 24 00.54	−18 19 51.6	17.3	o		T08
66P	2018 07 20.60070	01 24 00.48	−18 19 52.1	16.6	o		T08
66P	2018 07 20.61821	01 24 00.95	−18 19 41.4	16.5	o		T08
66P	2018 07 20.61867	01 24 01.00	−18 19 41.3	16.4	o		T08
66P	2018 07 20.61913	01 24 01.01	−18 19 40.2	16.8	o		T08
66P	2018 07 20.75787	01 24 05.61	−18 18 20.1			K	367
66P	2018 07 20.76111	01 24 05.74	−18 18 18.1	14.3	T	K	367
66P	2018 07 21.67947	01 24 33.84	−18 09 09.5	16.9	N		Q68
66P	2018 07 21.71178	01 24 34.78	−18 09 01.3			K	D81
66P	2018 07 21.71341	01 24 34.69	−18 09 01.4	16.1	T	K	D81
66P	2018 07 21.71640	01 24 34.82	−18 08 48.9	17.0	N		Q68
66P	2018 07 22.57024	01 24 58.49	−18 00 46.8	16.6	o		T05
66P	2018 07 22.57912	01 24 58.70	−18 00 41.9	16.6	o		T05
66P	2018 07 22.58050	01 24 58.71	−18 00 40.7	16.5	o		T05
66P	2018 07 22.58645	01 24 58.92	−18 00 37.7	17.7	o		T05
66P	2018 07 22.58785	01 24 58.91	−18 00 36.4	16.6	o		T05

66P	2018 07 22.59781	01 24 59.09	−18 00 31.2	16.8	o		T05
66P	2018 07 22.59921	01 24 59.22	−18 00 30.5	16.6	o		T05
66P	2018 07 22.60663	01 24 59.34	−18 00 26.4	16.6	o		T05
66P	2018 07 22.67223	01 25 01.29	−17 59 39.5	17.0	N		Q68
66P	2018 07 22.71514	01 25 02.25	−17 59 16.0	16.9	N		Q68
66P	2018 07 24.60600	01 25 46.02	−17 41 51.9	17.4	o		T08
66P	2018 07 24.60646	01 25 45.87	−17 41 50.7	16.6	o		T08
66P	2018 07 24.60738	01 25 46.06	−17 41 51.5	17.5	o		T08
66P	2018 07 24.61107	01 25 46.09	−17 41 48.3	17.5	o		T08
66P	2018 07 24.61616	01 25 46.23	−17 41 47.0	17.5	o		T08
66P	2018 07 24.61800	01 25 46.23	−17 41 45.4	17.4	o		T08
66P	2018 07 24.61846	01 25 46.08	−17 41 44.4	16.7	o		T08
66P	2018 07 24.71855	01 25 48.45	−17 40 42.2	17.1	N		Q68
66P	2018 07 24.75591	01 25 49.01	−17 40 21.8	16.9	N		Q68
66P	2018 07 26.52096	01 26 19.79	−17 24 48.0	17.2	o		T05
66P	2018 07 26.52810	01 26 19.95	−17 24 43.8	16.9	o		T05
66P	2018 07 26.52901	01 26 20.01	−17 24 43.6	17.8	o		T05
66P	2018 07 26.53394	01 26 19.97	−17 24 41.0	16.8	o		T05
66P	2018 07 26.53486	01 26 20.11	−17 24 41.3	17.5	o		T05
66P	2018 07 26.54093	01 26 20.13	−17 24 37.4	18.0	o		T05
66P	2018 07 26.54290	01 26 20.19	−17 24 36.5	17.8	o		T05
66P	2018 07 31.20025	01 26 55.36	−16 45 55.4	17.2	T	9	G40
66P	2018 07 31.20726	01 26 55.27	−16 45 52.8	17.1	T	9	G40
66P	2018 08 03.74402	01 26 38.56	−16 18 57.4			K	D95
66P	2018 08 03.74695	01 26 38.71	−16 18 56.2	14.6	T	K	D95
66P	2018 08 04.07350	01 26 35.13	−16 16 35.8			K	215
66P	2018 08 04.07478	01 26 35.09	−16 16 33.0	17.1	R	K	215
66P	2018 08 04.07606	01 26 35.07	−16 16 31.6	17.3	R	K	215
66P	2018 08 07.06443	01 25 48.67	−15 55 24.5	17.0	N	K	C23
66P	2018 08 07.07165	01 25 48.54	−15 55 23.8	17.1	N	K	C23
66P	2018 08 07.09782	01 25 47.89	−15 55 12.2	17.6	R		B96
66P	2018 08 07.10272	01 25 47.83	−15 55 10.7	17.4	R		B96
66P	2018 08 07.10763	01 25 47.54	−15 55 06.2	17.7	R		B96
66P	2018 08 08.19108	01 25 24.10	−15 47 46.4	17.5	N	9	G40
66P	2018 08 08.19927	01 25 23.87	−15 47 42.7	17.6	N	9	G40
66P	2018 08 11.27379	01 23 57.91	−15 27 32.1	17.6	N		W96
66P	2018 08 11.30587	01 23 56.74	−15 27 14.0	17.8	N		KW96
66P	2018 08 11.604480	01 23 46.742	−15 25 33.06	19.2	G	29	568
66P	2018 08 11.606351	01 23 46.672	−15 25 32.35	19.2	G	29	568
66P	2018 08 11.608224	01 23 46.601	−15 25 31.64	19.2	G	29	568
66P	2018 08 11.610098	01 23 46.531	−15 25 30.93	19.1	G	29	568
66P	2018 08 12.61853	01 23 11.60	−15 19 02.2	17.4	N		Q68
66P	2018 08 12.78759	01 23 04.93	−15 18 00.8	17.4	N		Q68
66P	2018 08 13.06677	01 22 54.85	−15 16 25.8	18.2	N		K77
66P	2018 08 13.07552	01 22 54.51	−15 16 25.5	18.1	N		K77
66P	2018 08 13.08446	01 22 54.16	−15 16 22.2	18.1	V	K	A71
66P	2018 08 13.09165	01 22 53.86	−15 16 20.3	18.0	V	K	A71
66P	2018 08 13.09884	01 22 53.59	−15 16 17.2	18.0	V	K	A71
66P	2018 08 13.74144	01 22 28.63	−15 12 19.1	15.0	T		349
66P	2018 08 13.75405	01 22 28.10	−15 12 14.7				349
66P	2018 08 14.77329	01 21 46.19	−15 06 03.3			K	367
66P	2018 08 14.77734	01 21 45.99	−15 06 01.7	14.7	T	K	367
66P	2018 08 17.67495	01 19 31.33	−14 48 54.7				D95
66P	2018 08 17.68152	01 19 30.99	−14 48 51.3				D95
66P	2018 08 17.68371	01 19 30.92	−14 48 51.3	15.3	T		D95
66P	2018 08 18.61163	01 18 42.52	−14 43 27.6	17.1	o		T08
66P	2018 08 18.62340	01 18 41.75	−14 43 23.7	17.1	o		T08
66P	2018 08 18.63383	01 18 41.28	−14 43 21.6	17.9	o		T08
66P	2018 08 18.72367	01 18 36.86	−14 42 51.0			K	Q23
66P	2018 08 18.73104	01 18 36.43	−14 42 48.2	15.9	T	K	Q23
66P	2018 08 19.60413	01 17 48.83	−14 37 46.0	18.0	o		T05
66P	2018 08 19.61427	01 17 48.26	−14 37 42.7	18.1	o		T05
66P	2018 08 19.62497	01 17 47.60	−14 37 39.3	18.1	o		T05
66P	2018 08 20.60942	01 16 51.78	−14 32 03.3	18.1	o		T05
66P	2018 08 20.62021	01 16 51.09	−14 31 59.3	18.1	o		T05
66P	2018 08 20.63059	01 16 50.34	−14 31 55.6	17.2	o		T05
66P	2018 08 21.05617	01 16 26.19	−14 29 31.5	17.3	N		J22
66P	2018 08 21.05839	01 16 26.07	−14 29 31.1	17.3	N		J22
66P	2018 08 21.06424	01 16 25.69	−14 29 28.4	17.3	N		J22
66P	2018 08 21.09769	01 16 23.33	−14 29 20.2	17.9	V	K	215
66P	2018 08 21.09897	01 16 23.25	−14 29 19.8	18.0	V	K	215
66P	2018 08 21.10026	01 16 23.17	−14 29 19.5	17.8	V	K	215
66P	2018 08 21.58577	01 15 54.04	−14 26 31.2	17.5	o		T08
66P	2018 08 21.59594	01 15 53.24	−14 26 28.7	17.1	o		T08
66P	2018 08 21.60568	01 15 52.77	−14 26 25.1	17.7	o		T08
66P	2018 08 21.61588	01 15 52.11	−14 26 21.4	17.9	o		T08
66P	2018 08 26.74213	01 10 12.17	−13 57 49.8	15.4	T		349
66P	2018 08 26.74688	01 10 11.77	−13 57 48.9				349
66P	2018 09 03.57094	00 59 53.47	−13 13 56.4	17.9	o		T08
66P	2018 09 03.58163	00 59 52.50	−13 13 52.2	17.6	o		T08
66P	2018 09 03.59195	00 59 51.53	−13 13 48.8	17.4	o		T08
66P	2018 09 03.60280	00 59 50.63	−13 13 45.1	17.9	o		T08
66P	2018 09 03.99089	00 59 18.18	−13 11 30.9	17.5	N		J22
66P	2018 09 03.99286	00 59 18.10	−13 11 29.8	17.5	N		J22
66P	2018 09 03.99480	00 59 17.99	−13 11 28.3	17.5	N		J22
66P	2018 09 05.06081	00 57 45.72	−13 05 23.9	17.7	N	9	G40
66P	2018 09 05.06613	00 57 45.22	−13 05 22.2	17.7	N	9	G40
66P	2018 09 05.07196	00 57 44.67	−13 05 19.8	17.8	N	9	G40
66P	2018 09 05.10762	00 57 41.27	−13 05 09.0	18.2	N	K	A77
66P	2018 09 05.11450	00 57 40.69	−13 05 07.0	18.2	N	K	A77
66P	2018 09 05.12049	00 57 40.16	−13 05 04.5	18.2	N	K	A77
66P	2018 09 07.45730	00 54 13.69	−12 51 23.4	16.6	G		G96
66P	2018 09 07.46244	00 54 13.31	−12 51 21.4	17.0	G		G96
66P	2018 09 07.46759	00 54 12.56	−12 51 21.0	15.6	G		G96
66P	2018 09 07.47271	00 54 12.27	−12 51 20.0	15.5	G		G96
66P	2018 09 08.29992	00 52 58.27	−12 46 15.7	17.4	N		KW96
66P	2018 09 08.32899	00 52 55.49	−12 46 07.3	17.6	N		KW96
66P	2018 09 09.55943	00 51 04.30	−12 38 48.3	17.7	o		T05
66P	2018 09 09.57014	00 51 03.29	−12 38 44.1	18.3	o		T05
66P	2018 09 09.58035	00 51 02.32	−12 38 39.9	18.4	o		T05
66P	2018 09 09.59108	00 51 01.31	−12 38 36.6	18.3	o		T05
66P	2018 09 10.05152	00 50 19.75	−12 35 51.1	17.3	N		J01
66P	2018 09 10.05519	00 50 19.45	−12 35 49.9	17.4	N		J01
66P	2018 09 10.07728	00 50 17.38	−12 35 42.4	17.5	N		J01
66P	2018 09 10.52870	00 49 36.46	−12 32 45.9	18.6	N		Q68
66P	2018 09 10.64300	00 49 25.71	−12 32 04.1	17.7	N		Q68

66P	2018 09 11.54669	00 48 02.62	−12 26 37.8	17.9	o		T08
66P	2018 09 11.55734	00 48 01.67	−12 26 35.2	18.0	o		T08
66P	2018 09 11.56744	00 48 00.70	−12 26 30.3	18.3	o		T08
66P	2018 09 11.57818	00 47 59.63	−12 26 26.6	17.5	o		T08
66P	2018 09 12.56392	00 46 29.56	−12 20 10.2	17.8	N		Q68
66P	2018 09 12.64212	00 46 22.15	−12 19 40.8	17.5	N		Q68
66P	2018 09 14.03632	00 44 13.60	−12 11 02.3	17.4	N	K	C23
66P	2018 09 14.03931	00 44 13.31	−12 11 01.6	17.4	N	K	C23
66P	2018 09 14.04193	00 44 13.07	−12 10 59.8	17.1	N	K	C23
66P	2018 09 14.04418	00 44 12.90	−12 10 58.3	17.2	N	K	C23
66P	2018 09 14.56044	00 43 25.47	−12 07 29.8	17.8	N		Q68
66P	2018 09 14.64462	00 43 17.40	−12 06 57.3	17.7	N		Q68
66P	2018 09 15.52546	00 41 56.01	−12 01 23.4	17.5	o		T08
66P	2018 09 15.53562	00 41 55.10	−12 01 20.0	18.2	o		T08
66P	2018 09 15.54578	00 41 54.12	−12 01 15.4	18.0	o		T08
66P	2018 09 15.55595	00 41 53.08	−12 01 11.7	17.5	o		T08
66P	2018 09 16.03618	00 41 09.16	−11 58 05.6	17.6	R	K	J01
66P	2018 09 16.04725	00 41 08.14	−11 58 01.3	18.0	R	K	J01
66P	2018 09 16.05831	00 41 07.15	−11 57 57.2	17.9	R	K	J01
66P	2018 09 16.50481	00 40 25.92	−11 54 58.9	18.3	o		T05
66P	2018 09 16.51499	00 40 24.97	−11 54 55.1	17.3	o		T05
66P	2018 09 16.51970	00 40 24.54	−11 54 52.8	18.4	o		T05
66P	2018 09 16.52480	00 40 24.02	−11 54 51.1	18.3	o		T05
66P	2018 09 16.52986	00 40 23.55	−11 54 48.9	18.4	o		T05
66P	2018 09 16.53493	00 40 22.87	−11 54 48.1	16.9	o		T05
66P	2018 09 16.53957	00 40 22.63	−11 54 45.0	18.1	o		T05
66P	2018 09 16.54973	00 40 21.66	−11 54 41.3	17.3	o		T05
66P	2018 09 17.383287	00 39 04.97	−11 49 11.4	17.7	R	K	H47
66P	2018 09 17.397743	00 39 03.66	−11 49 05.6	17.3	R	K	H47
66P	2018 09 17.50988	00 38 53.61	−11 48 19.6	17.5	o		T05
66P	2018 09 17.51998	00 38 52.62	−11 48 15.5	17.4	o		T05
66P	2018 09 17.53007	00 38 51.69	−11 48 11.6	17.3	o		T05
66P	2018 09 17.54015	00 38 50.73	−11 48 07.3	17.3	o		T05
66P	2018 09 18.50385	00 37 22.64	−11 41 39.9	18.2	o		T08
66P	2018 09 18.50662	00 37 22.33	−11 41 39.4	17.4	o		T08
66P	2018 09 18.51538	00 37 21.48	−11 41 39.2	18.3	o		T08
66P	2018 09 18.53112	00 37 20.14	−11 41 27.2	18.0	o		T08
66P	2018 09 19.50249	00 35 51.71	−11 34 52.5	17.8	o		T08
66P	2018 09 19.51254	00 35 50.85	−11 34 48.8	18.1	o		T08
66P	2018 09 19.52279	00 35 49.96	−11 34 42.6	18.0	o		T08
66P	2018 09 19.53277	00 35 48.87	−11 34 39.7	17.3	o		T08

74P/Smirnova-Chernykh

74P	2018 02 10.23906	11 58 04.54	+09 46 54.1	16.5	N	14	W88
74P	2018 02 10.23997	11 58 04.59	+09 46 54.0	16.3	N	14	W88
74P	2018 02 10.24084	11 58 04.57	+09 46 54.3	16.4	N	14	W88
74P	2018 04 18.89823	11 22 46.38	+13 13 36.3	17.8	N	K	160
74P	2018 04 18.90088	11 22 46.31	+13 13 36.1	17.8	N	K	160
74P	2018 04 18.90355	11 22 46.26	+13 13 35.6	17.7	N	K	160
74P	2018 05 04.91280	11 20 03.00	+12 53 12.6	17.1	N		L30
74P	2018 05 04.91646	11 20 03.05	+12 53 12.4	17.1	N		L30
74P	2018 05 04.92488	11 20 02.96	+12 53 11.4	17.3	N		L30
74P	2018 05 04.93220	11 20 02.95	+12 53 09.7	17.2	N		L30
74P	2018 05 04.93584	11 20 02.97	+12 53 09.5	17.3	N		L30
74P	2018 05 04.93950	11 20 02.99	+12 53 09.3	17.2	N		L30
74P	2018 05 04.94316	11 20 02.92	+12 53 07.9	17.5	N		L30
74P	2018 05 04.94681	11 20 02.94	+12 53 08.0	17.4	N		L30
74P	2018 05 04.95412	11 20 02.91	+12 53 07.2	17.2	N		L30
74P	2018 05 04.95777	11 20 02.90	+12 53 06.3	17.4	N		L30
74P	2018 05 04.96142	11 20 02.88	+12 53 06.4	17.1	N		L30
74P	2018 05 05.87918	11 20 01.70	+12 50 59.0	17.3	N		L30
74P	2018 05 05.88648	11 20 01.70	+12 50 58.1	17.1	N		L30
74P	2018 05 05.89014	11 20 01.72	+12 50 57.5	17.5	N		L30
74P	2018 05 05.89380	11 20 01.72	+12 50 57.0	17.2	N		L30
74P	2018 05 05.90111	11 20 01.66	+12 50 56.4	17.5	N		L30
74P	2018 05 05.91207	11 20 01.66	+12 50 54.5	17.4	N		L30
74P	2018 05 05.91573	11 20 01.66	+12 50 54.1	17.3	N		L30
74P	2018 05 05.91938	11 20 01.66	+12 50 53.8	17.3	N		L30
74P	2018 05 05.92303	11 20 01.63	+12 50 52.7	17.2	N		L30
74P	2018 05 05.92669	11 20 01.66	+12 50 52.8	17.5	N		L30
74P	2018 05 05.93035	11 20 01.61	+12 50 51.4	17.1	N		L30
74P	2018 05 05.93399	11 20 01.59	+12 50 51.3	17.4	N		L30
74P	2018 05 05.93765	11 20 01.63	+12 50 51.0	17.1	N		L30
74P	2018 05 05.94131	11 20 01.60	+12 50 49.9	17.1	N		L30
74P	2018 05 05.94497	11 20 01.63	+12 50 50.5	17.4	N		L30
74P	2018 05 05.94861	11 20 01.61	+12 50 49.3	17.2	N		L30
74P	2018 05 05.95227	11 20 01.64	+12 50 48.5	17.1	N		L30
74P	2018 05 05.95593	11 20 01.61	+12 50 48.4	17.1	N		L30
74P	2018 05 10.92682	11 20 10.52	+12 37 39.1	17.1	N		585
74P	2018 05 10.92824	11 20 10.48	+12 37 38.9	16.5	N		585
74P	2018 05 10.92966	11 20 10.54	+12 37 38.4	16.5	N		585
74P	2018 05 10.93042	11 20 10.59	+12 37 39.5	16.5	N		585
74P	2018 05 10.93183	11 20 10.54	+12 37 37.5	16.7	N		585
74P	2018 05 10.93255	11 20 10.58	+12 37 37.3	16.7	N		585
74P	2018 05 10.93397	11 20 10.56	+12 37 38.5	16.6	N		585
74P	2018 05 10.93468	11 20 10.52	+12 37 38.1	16.6	N		585
74P	2018 05 10.93610	11 20 10.54	+12 37 37.6	16.7	N		585
74P	2018 05 10.93681	11 20 10.54	+12 37 36.4	16.6	N		585
74P	2018 05 25.85480	11 23 07.54	+11 42 48.2	17.0	N	K	160
74P	2018 05 25.85703	11 23 07.59	+11 42 47.3	17.3	N	K	160
74P	2018 05 25.85944	11 23 07.63	+11 42 46.5	17.1	N	K	160
74P	2018 05 26.53150	11 23 20.69	+11 39 49.5	16.2	T		349
74P	2018 05 26.54369	11 23 20.88	+11 39 46.0				349
74P	2018 05 26.86143	11 23 27.19	+11 38 21.7	17.7	N	K	160
74P	2018 05 26.86354	11 23 27.25	+11 38 21.0	17.8	N	K	160
74P	2018 05 26.86564	11 23 27.27	+11 38 20.0	17.1	N	K	160
74P	2018 05 30.88173	11 24 54.63	+11 19 44.8			9	G40
74P	2018 05 30.89029	11 24 54.81	+11 19 42.0	16.8	T	9	G40
74P	2018 05 31.23952	11 25 03.15	+11 18 01.3	16.7	o		T08
74P	2018 05 31.25708	11 25 03.54	+11 17 56.4	16.7	o		T08
74P	2018 05 31.26160	11 25 03.65	+11 17 55.3	17.3	o		T08
74P	2018 05 31.27483	11 25 03.96	+11 17 51.4	16.9	o		T08
74P	2018 05 31.93222	11 25 19.74	+11 14 38.3	16.8	N	K	585
74P	2018 05 31.93292	11 25 19.69	+11 14 38.4	16.8	N	K	585
74P	2018 05 31.93363	11 25 19.77	+11 14 37.8	16.9	N	K	585
74P	2018 05 31.93434	11 25 19.80	+11 14 37.5	16.7	N	K	585

74P	2018 05 31.93505	11 25 19.85	+11 14 36.9	16.9	N	K 585			74P	2018 06 11.30558	11 30 17.01	+10 20 02.1	16.8	o	T08		
74P	2018 06 02.28544	11 25 53.61	+11 07 59.7	16.7	o	T05			74P	2018 06 11.31562	11 30 17.36	+10 19 58.4	16.7	o	T08		
74P	2018 06 02.29621	11 25 53.86	+11 07 56.2	16.7	o	T05			74P	2018 06 12.24695	11 30 48.20	+10 14 41.8	16.7	o	T08		
74P	2018 06 02.30550	11 25 54.12	+11 07 53.3	16.7	o	T05			74P	2018 06 12.25869	11 30 48.58	+10 14 37.8	16.9	o	T08		
74P	2018 06 04.26212	11 26 45.73	+10 57 59.1	16.8	o	T08			74P	2018 06 12.25915	11 30 48.60	+10 14 37.7	17.3	o	T08		
74P	2018 06 04.27213	11 26 46.01	+10 57 56.2	17.2	o	T08			74P	2018 06 12.25961	11 30 48.62	+10 14 37.5	17.3	o	T08		
74P	2018 06 04.28269	11 26 46.29	+10 57 53.0	16.9	o	T08			74P	2018 06 12.26302	11 30 48.72	+10 14 36.5	16.9	o	T08		
74P	2018 06 04.29170	11 26 46.51	+10 57 50.1	16.6	o	T08			74P	2018 06 12.28092	11 30 49.32	+10 14 30.3	16.9	o	T08		
74P	2018 06 04.29507	11 26 46.62	+10 57 48.9	16.8	o	T08			74P	2018 06 13.30388	11 31 23.95	+10 08 38.0	16.8	o	T05		
74P	2018 06 04.30318	11 26 46.82	+10 57 46.7	16.6	o	T08			74P	2018 06 13.31426	11 31 24.29	+10 08 34.6	16.8	o	T05		
74P	2018 06 04.31188	11 26 47.06	+10 57 43.6	16.8	o	T08			74P	2018 06 13.32471	11 31 24.63	+10 08 31.2	16.9	o	T05		
74P	2018 06 04.31913	11 26 47.26	+10 57 41.9	16.9	o	T08			74P	2018 06 13.33503	11 31 24.99	+10 08 27.6	16.7	o	T05		
74P	2018 06 04.52617	11 26 52.87	+10 56 36.2			K D81			74P	2018 06 15.29778	11 32 33.65	+09 57 01.4	16.7	o	T08		
74P	2018 06 04.52999	11 26 52.96	+10 56 35.2			K D81			74P	2018 06 15.30057	11 32 33.78	+09 57 00.0	17.4	o	T08		
74P	2018 06 04.53380	11 26 53.08	+10 56 34.5	16.7	T	K D81			74P	2018 06 15.30827	11 32 34.03	+09 56 57.1	16.9	o	T08		
74P	2018 06 04.90969	11 27 03.52	+10 54 38.5	17.0	N	K C23			74P	2018 06 15.31105	11 32 34.14	+09 56 55.6	17.4	o	T08		
74P	2018 06 04.91330	11 27 03.61	+10 54 36.9	16.8	N	K C23			74P	2018 06 15.31867	11 32 34.37	+09 56 53.6	16.8	o	T08		
74P	2018 06 04.91691	11 27 03.74	+10 54 35.4	16.5	N	K C23			74P	2018 06 15.32911	11 32 34.75	+09 56 49.6	16.9	o	T08		
74P	2018 06 06.25433	11 27 41.52	+10 47 36.8	16.8	o	T05			74P	2018 06 15.85791	11 32 53.71	+09 53 41.6	17.9	N	K 160		
74P	2018 06 06.25644	11 27 41.56	+10 47 36.2	17.3	o	T05			74P	2018 06 15.86026	11 32 53.80	+09 53 40.8	18.0	N	K 160		
74P	2018 06 06.26800	11 27 41.90	+10 47 32.5	16.8	o	T05			74P	2018 06 15.86247	11 32 53.86	+09 53 40.2			K 160		
74P	2018 06 06.27754	11 27 42.16	+10 47 29.7	16.7	o	T05			74P	2018 06 16.26079	11 33 08.37	+09 51 18.8	16.6	o	T08		
74P	2018 06 06.27915	11 27 42.21	+10 47 28.8	16.9	o	T05			74P	2018 06 16.26517	11 33 08.52	+09 51 17.0	16.8	o	T08		
74P	2018 06 06.28764	11 27 42.47	+10 47 26.2	16.7	o	T05			74P	2018 06 16.27572	11 33 08.87	+09 51 13.3	16.8	o	T08		
74P	2018 06 06.29780	11 27 42.74	+10 47 23.0	16.8	o	T05			74P	2018 06 16.85301	11 33 29.97	+09 47 45.7	18.0	N	K 160		
74P	2018 06 06.30689	11 27 43.00	+10 47 20.0	16.7	o	T05			74P	2018 06 16.85584	11 33 30.05	+09 47 44.6	18.1	N	K 160		
74P	2018 06 06.90911	11 28 00.47	+10 44 07.9	16.8	N	Z39			74P	2018 06 16.85868	11 33 30.17	+09 47 43.7	17.4	N	K 160		
74P	2018 06 06.92689	11 28 01.03	+10 44 02.1	16.7	N	Z39			74P	2018 06 16.90633	11 33 32.01	+09 47 26.0	17.0	N	K C23		
74P	2018 06 06.95177	11 28 01.74	+10 43 54.3	16.9	N	Z39			74P	2018 06 16.90922	11 33 32.14	+09 47 24.8	17.4	N	K C23		
74P	2018 06 07.91304	11 28 30.36	+10 38 44.0	16.9	N	Z39			74P	2018 06 16.91210	11 33 32.15	+09 47 25.2	17.1	N	K C23		
74P	2018 06 07.92662	11 28 30.70	+10 38 39.7	16.7	N	Z39			74P	2018 06 17.00676	11 33 35.67	+09 46 53.6	16.5	R	K I47		
74P	2018 06 07.94064	11 28 31.15	+10 38 34.8	16.8	N	Z39			74P	2018 06 17.02347	11 33 36.28	+09 46 48.2	16.5	R	K I47		
74P	2018 06 08.24883	11 28 40.55	+10 36 56.2	16.9	o	T08			74P	2018 06 17.31302	11 33 46.96	+09 45 00.4	17.2	c	T05		
74P	2018 06 08.25871	11 28 40.83	+10 36 52.7	16.8	o	T08			74P	2018 06 17.32394	11 33 47.38	+09 44 56.8	17.4	c	T05		
74P	2018 06 08.26783	11 28 41.10	+10 36 49.5	16.9	o	T08			74P	2018 06 17.33499	11 33 47.80	+09 44 52.9	17.3	c	T05		
74P	2018 06 08.26936	11 28 41.17	+10 36 49.7	16.7	o	T08			74P	2018 06 17.34601	11 33 48.19	+09 44 48.8	17.3	c	T05		
74P	2018 06 08.27810	11 28 41.43	+10 36 46.1	16.7	o	T08			74P	2018 06 18.87727	11 34 45.91	+09 35 31.2	17.0	N	Z39		
74P	2018 06 08.27963	11 28 41.47	+10 36 46.4	16.7	o	T08			74P	2018 06 18.89444	11 34 46.53	+09 35 25.0	16.8	N	Z39		
74P	2018 06 08.28931	11 28 41.74	+10 36 42.8	16.9	o	T08			74P	2018 06 18.91414	11 34 47.26	+09 35 18.1	16.8	N	Z39		
74P	2018 06 08.29832	11 28 42.01	+10 36 40.1	16.9	o	T08			74P	2018 06 21.29693	11 36 20.19	+09 20 34.7	16.8	o	T05		
74P	2018 06 10.30968	11 29 44.76	+10 25 36.8	17.2	c	T05			74P	2018 06 21.30701	11 36 20.57	+09 20 30.9	16.7	o	T05		
74P	2018 06 10.32094	11 29 45.10	+10 25 32.8	17.3	c	T05			74P	2018 06 21.31687	11 36 20.98	+09 20 27.4	16.9	o	T05		
74P	2018 06 10.33212	11 29 45.49	+10 25 28.8	17.2	c	T05			74P	2018 06 21.32838	11 36 21.41	+09 20 22.3	16.8	o	T05		
74P	2018 06 10.34350	11 29 45.83	+10 25 24.9	17.1	c	T05			74P	2018 06 23.28311	11 37 40.48	+09 08 03.3	17.1	o	T08		
74P	2018 06 10.90634	11 30 04.03	+10 22 16.6	16.3	N	K 585			74P	2018 06 23.29358	11 37 40.91	+09 07 59.3	17.5	o	T08		
74P	2018 06 10.90705	11 30 04.01	+10 22 15.3	16.5	N	K 585			74P	2018 06 23.30304	11 37 41.32	+09 07 55.8	16.9	o	T08		
74P	2018 06 10.90990	11 30 04.03	+10 22 15.1	16.5	N	K 585			74P	2018 06 23.31254	11 37 41.66	+09 07 51.5	17.4	o	T08		
74P	2018 06 10.91166	11 30 04.10	+10 22 13.6	16.8	N	K 585			74P	2018 06 23.85477	11 38 04.03	+09 04 23.6	17.4	N	K 160		
74P	2018 06 10.91730	11 30 04.28	+10 22 11.8	16.5	N	K 585			74P	2018 06 23.85730	11 38 04.12	+09 04 22.9	18.0	N	K 160		
74P	2018 06 10.91801	11 30 04.35	+10 22 11.6	16.5	N	K 585			74P	2018 06 23.85993	11 38 04.23	+09 04 22.2	17.6	N	K 160		
74P	2018 06 10.91872	11 30 04.37	+10 22 11.7	16.6	N	K 585			74P	2018 06 24.18223	11 38 17.57	+09 02 19.0	16.1	G	703		
74P	2018 06 10.91907	11 30 04.41	+10 22 11.7	16.5	N	K 585			74P	2018 06 24.18751	11 38 17.86	+09 02 16.8	16.4	G	703		
74P	2018 06 11.29474	11 30 16.64	+10 20 05.2	17.2	o	T08			74P	2018 06 24.19279	11 38 18.08	+09 02 14.8	16.3	G	703		

74P	2018 06 24.19807	11 38 18.29	+09 02 12.3	16.3	G	703
74P	2018 06 24.25469	11 38 20.67	+09 01 51.7	17.4	o	T08
74P	2018 06 24.26341	11 38 21.03	+09 01 47.9	16.7	o	T08
74P	2018 06 24.27443	11 38 21.45	+09 01 43.2	17.0	o	T08
74P	2018 06 25.18098	11 38 59.52	+08 55 53.2	16.4	G	703
74P	2018 06 25.18639	11 38 59.72	+08 55 51.3	16.3	G	703
74P	2018 06 25.19180	11 38 59.93	+08 55 49.1	16.3	G	703
74P	2018 06 25.19721	11 39 00.15	+08 55 47.4	16.3	G	703
74P	2018 06 25.29702	11 39 04.42	+08 55 08.7	16.8	o	T05
74P	2018 06 25.30724	11 39 04.81	+08 55 05.1	16.9	o	T05
74P	2018 06 25.31673	11 39 05.23	+08 55 00.9	16.8	o	T05
74P	2018 06 25.32621	11 39 05.64	+08 54 57.2	16.9	o	T05
74P	2018 06 25.90053	11 39 30.14	+08 51 14.8	16.8	N	K C23
74P	2018 06 25.90390	11 39 30.17	+08 51 12.1	16.5	N	K C23
74P	2018 06 25.90727	11 39 30.38	+08 51 09.3	17.0	N	K C23
74P	2018 06 26.25591	11 39 45.24	+08 48 55.2	16.6	o	T05
74P	2018 06 26.26434	11 39 45.59	+08 48 51.9	17.1	o	T05
74P	2018 06 26.27451	11 39 46.05	+08 48 48.0	16.7	o	T05
74P	2018 06 27.27999	11 40 29.41	+08 42 13.8	16.8	o	T08
74P	2018 06 27.28902	11 40 29.83	+08 42 09.7	17.5	o	T08
74P	2018 06 27.29821	11 40 30.29	+08 42 05.9	16.9	o	T08
74P	2018 06 27.30724	11 40 30.61	+08 42 03.3	16.6	o	T08
74P	2018 06 28.24958	11 41 11.84	+08 35 50.0	16.9	o	T08
74P	2018 06 28.25238	11 41 12.06	+08 35 50.4	17.5	o	T08
74P	2018 06 28.26356	11 41 12.62	+08 35 45.9	17.3	o	T08
74P	2018 06 28.26562	11 41 12.56	+08 35 44.5	17.1	o	T08
74P	2018 06 29.83328	11 42 22.48	+08 25 19.1	18.2	N	K 160
74P	2018 06 29.83636	11 42 22.36	+08 25 17.0	17.7	N	K 160
74P	2018 06 30.25295	11 42 41.29	+08 22 29.6	17.6	o	T05
74P	2018 06 30.25340	11 42 41.31	+08 22 29.1	16.8	o	T05
74P	2018 06 30.25935	11 42 41.58	+08 22 27.0	16.8	o	T05
74P	2018 06 30.27275	11 42 42.20	+08 22 21.6	17.7	o	T05
74P	2018 06 30.88833	11 43 10.08	+08 18 13.2	17.2	T	20G40
74P	2018 06 30.89031	11 43 10.19	+08 18 11.8	16.9	T	20G40
74P	2018 07 03.31251	11 45 02.14	+08 01 45.1	17.5	o	T05
74P	2018 07 03.32212	11 45 02.61	+08 01 41.2	16.9	o	T05
74P	2018 07 03.33154	11 45 03.05	+08 01 36.9	17.0	o	T05
74P	2018 07 04.25412	11 45 46.57	+07 55 16.7	17.6	o	T05
74P	2018 07 04.26219	11 45 46.96	+07 55 14.0	17.0	o	T05
74P	2018 07 04.27308	11 45 47.47	+07 55 09.0	16.9	o	T05
74P	2018 07 04.28385	11 45 47.97	+07 55 04.9	17.6	o	T05
74P	2018 07 11.27246	11 51 31.96	+07 05 53.1	17.4	c	T05
74P	2018 07 11.28350	11 51 32.52	+07 05 48.4	17.2	c	T05
74P	2018 07 11.29428	11 51 33.07	+07 05 43.8	17.1	c	T05
74P	2018 07 11.30508	11 51 33.60	+07 05 39.1	17.2	c	T05
74P	2018 07 12.25922	11 52 22.48	+06 58 46.9	17.9	c	T05
74P	2018 07 12.26787	11 52 22.93	+06 58 43.4	17.9	c	T05
74P	2018 07 12.27899	11 52 23.48	+06 58 38.6	17.4	c	T05
74P	2018 07 12.29090	11 52 24.12	+06 58 33.3	18.1	c	T05
74P	2018 07 13.09675	11 53 05.82	+06 52 43.6	17.5	R	K 850
74P	2018 07 13.10531	11 53 06.18	+06 52 40.0	17.2	R	K 850
74P	2018 07 13.11389	11 53 06.57	+06 52 34.4	17.6	R	K 850
74P	2018 08 09.38674	12 19 10.46	+03 23 56.5	17.9	G	K Q38
74P	2018 08 09.39468	12 19 10.81	+03 23 50.2	17.8	G	K Q38

77P/Longmore

77P	2018 08 07.55014	00 48 17.967	−03 52 35.83	21.9	w	F51
77P	2018 08 07.56118	00 48 17.778	−03 52 36.13	22.2	w	F51
77P	2018 08 07.57223	00 48 17.627	−03 52 36.60	21.8	w	F51
77P	2018 08 07.58328	00 48 17.460	−03 52 36.92	22.2	w	F51

78P/Gehrels

78P	2018 06 10.98270	21 59 21.23	−04 27 21.3	17.5	N	K 585
78P	2018 06 10.98340	21 59 21.26	−04 27 21.2	17.3	N	K 585
78P	2018 06 10.98411	21 59 21.28	−04 27 21.1	17.2	N	K 585
78P	2018 06 10.98482	21 59 21.30	−04 27 20.6	17.3	N	K 585
78P	2018 06 10.98553	21 59 21.29	−04 27 20.2	17.3	N	K 585
78P	2018 06 10.98624	21 59 21.29	−04 27 20.0	17.5	N	K 585
78P	2018 06 10.98695	21 59 21.32	−04 27 20.4	17.5	N	K 585
78P	2018 06 10.98766	21 59 21.33	−04 27 19.8	17.5	N	K 585
78P	2018 06 10.98837	21 59 21.35	−04 27 19.3	17.4	N	K 585
78P	2018 06 10.98907	21 59 21.35	−04 27 19.4	17.5	N	K 585
78P	2018 06 10.98978	21 59 21.36	−04 27 19.5	17.4	N	K 585
78P	2018 06 10.99049	21 59 21.40	−04 27 19.4	17.3	N	K 585
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78P	2018 06 10.99262	21 59 21.49	−04 27 18.3	17.5	N	K 585
78P	2018 06 10.99333	21 59 21.51	−04 27 18.4	17.3	N	K 585
78P	2018 06 10.99404	21 59 21.51	−04 27 18.1	17.4	N	K 585
78P	2018 06 10.99475	21 59 21.51	−04 27 17.7	17.3	N	K 585
78P	2018 06 10.99546	21 59 21.51	−04 27 17.4	17.5	N	K 585
78P	2018 06 10.99617	21 59 21.53	−04 27 17.3	17.5	N	K 585
78P	2018 06 10.99687	21 59 21.54	−04 27 17.5	17.5	N	K 585
78P	2018 06 10.99758	21 59 21.54	−04 27 17.3	17.4	N	K 585
78P	2018 06 10.99829	21 59 21.62	−04 27 17.6	17.4	N	K 585
78P	2018 06 13.67509	22 00 23.96	−04 15 33.7	17.2	T	Q11
78P	2018 06 13.68368	22 00 24.13	−04 15 31.6			Q11
78P	2018 06 13.68797	22 00 24.21	−04 15 30.6			Q11
78P	2018 06 16.02652	22 01 12.55	−04 05 46.8	18.0	N	K 160
78P	2018 06 16.02884	22 01 12.61	−04 05 46.3	17.8	N	K 160
78P	2018 06 16.03116	22 01 12.66	−04 05 46.1	18.4	N	K 160
78P	2018 06 17.05794	22 01 32.04	−04 01 37.9	17.9	N	K 160
78P	2018 06 17.06031	22 01 32.10	−04 01 37.4	18.1	N	K 160
78P	2018 06 17.06270	22 01 32.20	−04 01 37.3			K 160
78P	2018 06 17.26008	22 01 35.75	−04 00 45.0	17.6	R	K I47
78P	2018 06 17.27025	22 01 35.93	−04 00 42.5	17.6	R	K I47
78P	2018 06 17.28041	22 01 36.10	−04 00 40.3	17.6	R	K I47
78P	2018 06 18.40302	22 01 55.63	−03 56 23.9			G96
78P	2018 06 18.40824	22 01 55.80	−03 56 20.6	17.4	G	G96
78P	2018 06 18.41348	22 01 55.86	−03 56 19.6	17.3	G	G96
78P	2018 06 18.41872	22 01 56.11	−03 56 16.9			G96
78P	2018 06 19.02451	22 02 06.04	−03 53 59.3	17.2	N	K 160
78P	2018 06 19.02692	22 02 06.07	−03 53 59.0	17.7	N	K 160
78P	2018 06 19.02932	22 02 06.11	−03 53 59.2	17.3	N	K 160
78P	2018 06 19.03250	22 02 06.17	−03 53 58.4	17.4	N	K C23
78P	2018 06 19.03683	22 02 06.26	−03 53 56.7	16.9	N	K C23

78P	2018 06 19.04116	22 02 06.33	−03 53 55.6	17.6	N	K	C23
78P	2018 06 20.01566	22 02 21.55	−03 50 17.5	17.7		K	215
78P	2018 06 20.01694	22 02 21.57	−03 50 17.3	17.6		K	215
78P	2018 06 20.01823	22 02 21.59	−03 50 16.9	17.7		K	215
78P	2018 06 21.69096	22 02 45.19	−03 44 13.5	17.3	T		349
78P	2018 06 21.70428	22 02 45.39	−03 44 11.1				349
78P	2018 06 21.98381	22 02 49.18	−03 43 12.2	17.6	N	K	C10
78P	2018 06 22.00315	22 02 49.38	−03 43 08.6	17.6	N	K	C10
78P	2018 06 22.02401	22 02 49.71	−03 43 04.6	17.6	N	K	C10
78P	2018 06 26.01034	22 03 32.07	−03 29 57.6	17.6	N	K	C23
78P	2018 06 26.01756	22 03 32.09	−03 29 56.3	17.0	N	K	C23
78P	2018 06 27.03921	22 03 39.96	−03 26 50.6	16.9	N	K	160
78P	2018 06 27.04159	22 03 40.00	−03 26 50.7	17.7	N	K	160
78P	2018 06 27.04398	22 03 40.06	−03 26 49.9	17.9	N	K	160
78P	2018 06 28.03684	22 03 46.39	−03 23 57.1	16.9	R		B96
78P	2018 06 28.04010	22 03 46.59	−03 23 56.7	17.6	R		B96
78P	2018 06 28.04501	22 03 46.62	−03 23 56.4	17.6	R		B96
78P	2018 06 29.02807	22 03 51.80	−03 21 11.2	17.2	R		B96
78P	2018 06 29.03134	22 03 51.88	−03 21 11.0	17.6	R		B96
78P	2018 06 29.03624	22 03 51.99	−03 21 10.7	17.9	R		B96
78P	2018 06 30.01252	22 03 56.05	−03 18 33.2	17.3	N	K	160
78P	2018 06 30.01474	22 03 56.06	−03 18 33.2	17.8	N	K	160
78P	2018 06 30.01532	22 03 56.14	−03 18 32.9	17.1	N	K	C23
78P	2018 06 30.01696	22 03 56.09	−03 18 33.5	16.7	N	K	160
78P	2018 06 30.02037	22 03 56.04	−03 18 32.9	16.9	N	K	C23
78P	2018 06 30.02470	22 03 55.99	−03 18 32.2	16.7	N	K	C23
78P	2018 06 30.02594	22 03 56.05	−03 18 31.5	16.9	R		B96
78P	2018 06 30.03083	22 03 56.07	−03 18 31.3	17.6	R		B96
78P	2018 06 30.03411	22 03 56.13	−03 18 29.3	18.0	R		B96
78P	2018 07 01.05765	22 03 59.11	−03 15 53.4	17.6	N	K	160
78P	2018 07 01.06002	22 03 59.10	−03 15 53.0	17.6	N	K	160
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78P	2018 07 02.03865	22 04 00.73	−03 13 30.0	16.8	R		B96
78P	2018 07 02.04191	22 04 00.75	−03 13 28.2	16.9	R		B96
78P	2018 07 02.04682	22 04 00.79	−03 13 28.1	17.2	R		B96
78P	2018 07 04.75322	22 03 59.19	−03 07 26.4	17.5	N		Q68
78P	2018 07 04.82486	22 03 58.99	−03 07 16.9	18.2	N		Q68
78P	2018 07 07.97487	22 03 45.79	−03 01 40.7	17.6	N		K77
78P	2018 07 07.98130	22 03 45.80	−03 01 39.4	17.8	N		K77
78P	2018 07 08.05613	22 03 45.23	−03 01 33.6	16.5	N	K	C23
78P	2018 07 08.05902	22 03 45.31	−03 01 32.1	16.9	N	K	C23
78P	2018 07 08.06190	22 03 45.22	−03 01 31.1	16.8	N	K	C23
78P	2018 07 08.06479	22 03 45.21	−03 01 31.7	17.0	N	K	C23
78P	2018 07 09.61070	22 03 33.94	−02 59 08.7	17.4	N	K	Q68
78P	2018 07 09.81771	22 03 31.92	−02 58 51.6	17.7	N	K	Q68
78P	2018 07 10.01388	22 03 30.45	−02 58 41.6	17.3	N	K	160
78P	2018 07 10.01624	22 03 30.44	−02 58 41.3	17.3	N	K	160
78P	2018 07 10.01861	22 03 30.41	−02 58 41.2	17.2	N	K	160
78P	2018 07 11.21927	22 03 18.90	−02 57 08.1	16.7	R		W92
78P	2018 07 11.22191	22 03 18.86	−02 57 08.4	17.0	R		W92
78P	2018 07 11.22729	22 03 18.84	−02 57 07.9	17.0	R		W92
78P	2018 07 11.26450	22 03 18.32	−02 57 05.4	16.9	R		W92
78P	2018 07 11.26716	22 03 18.29	−02 57 05.6	16.8	R		W92
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78P	2018 07 11.31358	22 03 17.89	−02 57 05.4	17.0	R		H47
78P	2018 07 11.32134	22 03 17.81	−02 57 04.7	16.9	R		H47
78P	2018 07 11.32917	22 03 17.69	−02 57 04.2	17.0	R		H47
78P	2018 07 12.96736	22 02 58.91	−02 55 23.4	17.5	N		K77
78P	2018 07 12.98094	22 02 58.71	−02 55 22.4	17.6	N		K77
78P	2018 07 12.99497	22 02 58.54	−02 55 23.9	17.4	N	K	160
78P	2018 07 12.99736	22 02 58.50	−02 55 23.7	17.4	N	K	160
78P	2018 07 12.99976	22 02 58.47	−02 55 23.7	17.4	N	K	160
78P	2018 07 13.33242	22 02 54.14	−02 55 05.7	17.2	R		H47
78P	2018 07 13.34013	22 02 54.00	−02 55 05.3	17.1	R		H47
78P	2018 07 13.35374	22 02 53.83	−02 55 04.6	17.1	R		H47
78P	2018 07 13.36184	22 02 53.70	−02 55 04.0	17.1	R		H47
78P	2018 07 13.46418	22 02 52.519	−02 54 58.40	18.2	w		F51
78P	2018 07 13.47657	22 02 52.322	−02 54 57.69	18.4	w		F51
78P	2018 07 13.48892	22 02 52.156	−02 54 57.21	18.2	w		F51
78P	2018 07 13.50135	22 02 51.951	−02 54 56.50	18.4	w		F51
78P	2018 07 13.77438	22 02 48.11	−02 54 45.3	16.3	R		D29
78P	2018 07 13.78852	22 02 47.92	−02 54 44.5	16.4	R		D29
78P	2018 07 13.80266	22 02 47.69	−02 54 44.0	16.3	R		D29
78P	2018 07 13.98266	22 02 45.44	−02 54 35.7	16.4	N		C23
78P	2018 07 13.98410	22 02 45.45	−02 54 35.8	16.5	N		C23
78P	2018 07 13.98555	22 02 45.46	−02 54 36.2	16.6	N		C23
78P	2018 07 15.20809	22 02 27.32	−02 53 47.0	17.0	N		J22
78P	2018 07 15.21005	22 02 27.27	−02 53 46.9	17.0	N		J22
78P	2018 07 15.21199	22 02 27.25	−02 53 47.0	17.0	N		J22
78P	2018 07 15.69316	22 02 19.84	−02 53 32.3	16.4	T		Q11
78P	2018 07 15.70172	22 02 19.68	−02 53 31.9				Q11
78P	2018 07 15.71030	22 02 19.56	−02 53 31.8				Q11
78P	2018 07 15.96022	22 02 15.60	−02 53 25.5	16.8	N	K	C23
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78P	2018 07 15.96744	22 02 15.50	−02 53 25.9	16.8	N	K	C23
78P	2018 07 15.97177	22 02 15.47	−02 53 25.3	16.9	N	K	C23
78P	2018 07 16.01600	22 02 14.64	−02 53 22.7	16.6	N		212
78P	2018 07 16.02603	22 02 14.58	−02 53 22.4	15.8	N		212
78P	2018 07 16.03610	22 02 14.36	−02 53 21.6	16.7	N		212
78P	2018 07 16.35101	22 02 09.00	−02 53 14.8	16.9	R		H47
78P	2018 07 16.39588	22 02 08.19	−02 53 13.7	16.9	R		H47
78P	2018 07 17.97200	22 01 40.31	−02 52 49.8	16.8	N		J01
78P	2018 07 17.98639	22 01 40.00	−02 52 49.6	16.6	N		J01
78P	2018 07 18.00080	22 01 39.70	−02 52 48.9	16.8	N		J01
78P	2018 07 18.58163	22 01 28.53	−02 52 40.7	17.2	N		Q68
78P	2018 07 18.78679	22 01 24.22	−02 52 40.4	17.1	N		Q68
78P	2018 07 19.01705	22 01 19.85	−02 52 46.1	17.0	N	K	160
78P	2018 07 19.01976	22 01 19.79	−02 52 46.0	17.6	N	K	160
78P	2018 07 19.02245	22 01 19.73	−02 52 46.1	17.1	N	K	160
78P	2018 07 19.55894	22 01 08.94	−02 52 38.4	15.8	N		Q68
78P	2018 07 19.79337	22 01 03.67	−02 52 44.3	17.2	N		Q68
78P	2018 07 19.98959	22 00 59.77	−02 52 52.0	16.1	N	K	160
78P	2018 07 19.99226	22 00 59.71	−02 52 51.8	16.8	N	K	160
78P	2018 07 19.99492	22 00 59.64	−02 52 51.9	16.9	N	K	160
78P	2018 07 19.99856	22 00 59.51	−02 52 53.4	16.6	N		C23

78P	2018 07 20.00577	22 00 59.36	−02 52 51.3	16.7	N	C23	78P	2018 07 31.90114	21 55 25.44	−03 06 03.9	15.5	R	K	C27
78P	2018 07 20.01155	22 00 59.26	−02 52 52.8	16.4	N	C23	78P	2018 07 31.93902	21 55 24.08	−03 06 08.7	15.3	R	K	C27
78P	2018 07 20.72846	22 00 43.52	−02 52 56.0	17.1	N	Q68	78P	2018 08 01.01819	21 55 21.18	−03 06 18.3	16.0	N	K	160
78P	2018 07 20.82334	22 00 41.33	−02 52 58.0	17.2	N	Q68	78P	2018 08 01.02046	21 55 21.09	−03 06 18.7	16.2	N	K	160
78P	2018 07 21.00272	22 00 37.71	−02 53 04.9	16.8	N	Z55	78P	2018 08 01.02271	21 55 21.02	−03 06 19.0	16.3	N	K	160
78P	2018 07 21.00718	22 00 37.56	−02 53 06.4	16.5	N	Z55	78P	2018 08 01.95322	21 54 48.71	−03 08 19.5	16.1	N		C23
78P	2018 07 21.00840	22 00 37.59	−02 53 07.9	16.8	N	Z55	78P	2018 08 01.96055	21 54 48.27	−03 08 19.9	15.4	N		C23
78P	2018 07 21.34238	22 00 29.81	−02 53 13.3	17.1	R	H47	78P	2018 08 01.96633	21 54 48.06	−03 08 21.2	15.6	N		C23
78P	2018 07 21.34984	22 00 29.61	−02 53 13.5	16.9	R	H47	78P	2018 08 02.10947	21 54 42.83	−03 08 39.2	16.6	N		B74
78P	2018 07 21.35645	22 00 29.46	−02 53 13.8	16.6	R	H47	78P	2018 08 02.12100	21 54 42.39	−03 08 40.8	16.6	N		B74
78P	2018 07 21.36341	22 00 29.28	−02 53 13.9	17.0	R	H47	78P	2018 08 02.13462	21 54 41.85	−03 08 42.2	16.6	N		B74
78P	2018 07 21.55301	22 00 25.10	−02 53 13.4	17.1	N	Q68	78P	2018 08 03.02597	21 54 09.93	−03 10 46.1	16.6	R		B96
78P	2018 07 21.57954	22 00 24.49	−02 53 19.0	15.5	T	D95	78P	2018 08 03.02925	21 54 09.79	−03 10 46.9	16.9	R		B96
78P	2018 07 21.58062	22 00 24.49	−02 53 19.7			D95	78P	2018 08 03.03414	21 54 09.57	−03 10 49.0	16.2	R		B96
78P	2018 07 21.69276	22 00 21.67	−02 53 16.8	16.9	N	Q68	78P	2018 08 03.53527	21 53 51.36	−03 12 00.3				D95
78P	2018 07 21.97852	22 00 15.13	−02 53 30.9	16.6	N	C23	78P	2018 08 03.54667	21 53 50.92	−03 12 02.1				D95
78P	2018 07 21.98285	22 00 15.04	−02 53 31.0	16.2	N	C23	78P	2018 08 03.54953	21 53 50.82	−03 12 02.4	14.9	T		D95
78P	2018 07 21.98718	22 00 14.90	−02 53 31.3	16.5	N	C23	78P	2018 08 03.69447	21 53 45.30	−03 12 24.1			K	D81
78P	2018 07 22.00883	22 00 14.34	−02 53 31.6	16.8	R	B96	78P	2018 08 03.69828	21 53 45.08	−03 12 24.2			K	D81
78P	2018 07 22.01374	22 00 14.23	−02 53 31.9	17.1	R	B96	78P	2018 08 03.70210	21 53 44.92	−03 12 24.8			K	D81
78P	2018 07 22.01700	22 00 14.16	−02 53 32.1	16.8	R	B96	78P	2018 08 03.70592	21 53 44.78	−03 12 24.6	15.7	T	K	D81
78P	2018 07 22.03882	22 00 13.64	−02 53 31.6	16.7	N	212	78P	2018 08 03.99996	21 53 34.00	−03 13 10.3	16.6	N	K	160
78P	2018 07 22.04006	22 00 13.63	−02 53 32.0	16.7	N	J01	78P	2018 08 04.00277	21 53 33.89	−03 13 10.1	16.6	N	K	160
78P	2018 07 22.04456	22 00 13.49	−02 53 31.9	16.7	N	212	78P	2018 08 04.00558	21 53 33.78	−03 13 10.9	16.8	N	K	160
78P	2018 07 22.05031	22 00 13.38	−02 53 32.1	16.8	N	212	78P	2018 08 04.00633	21 53 33.83	−03 13 09.8	16.2	N	9	G40
78P	2018 07 22.06176	22 00 13.05	−02 53 33.1	16.7	N	J01	78P	2018 08 04.00828	21 53 33.78	−03 13 10.6	16.2	N	9	G40
78P	2018 07 22.06897	22 00 12.85	−02 53 33.5	16.7	N	J01	78P	2018 08 04.03457	21 53 32.62	−03 13 16.5	16.7	R		B96
78P	2018 07 22.14684	22 00 11.03	−02 53 34.7	16.8	N	J22	78P	2018 08 04.03785	21 53 32.47	−03 13 16.7	15.7	R		B96
78P	2018 07 22.15471	22 00 10.74	−02 53 35.1	16.8	N	J22	78P	2018 08 04.04111	21 53 32.40	−03 13 16.8	16.3	R		B96
78P	2018 07 22.30002	22 00 07.37	−02 53 39.8	16.8	R	H47	78P	2018 08 04.53097	21 53 14.22	−03 14 31.6			K	367
78P	2018 07 22.30612	22 00 07.23	−02 53 39.9	16.8	R	H47	78P	2018 08 04.53219	21 53 14.16	−03 14 31.9			K	367
78P	2018 07 22.31520	22 00 06.95	−02 53 40.3	17.4	R	H47	78P	2018 08 04.53421	21 53 14.07	−03 14 32.1	15.3	T	K	367
78P	2018 07 22.32167	22 00 06.80	−02 53 41.1	16.5	R	H47	78P	2018 08 04.68439	21 53 08.21	−03 14 56.1	15.5	R		D29
78P	2018 07 22.55250	22 00 01.41	−02 53 43.0	17.1	N	Q68	78P	2018 08 04.69853	21 53 07.64	−03 14 58.5	15.4	R		D29
78P	2018 07 22.68532	21 59 57.96	−02 53 47.7	16.9	N	Q68	78P	2018 08 04.71268	21 53 07.08	−03 15 00.7	15.4	R		D29
78P	2018 07 23.55524	21 59 36.19	−02 54 26.6	16.6	o	T05	78P	2018 08 05.96869	21 52 18.98	−03 18 25.1	15.9	N		J22
78P	2018 07 23.57730	21 59 35.59	−02 54 27.7	16.5	o	T05	78P	2018 08 05.97262	21 52 18.78	−03 18 26.9	15.9	N		J22
78P	2018 07 23.58809	21 59 35.30	−02 54 28.1	16.6	o	T05	78P	2018 08 05.97284	21 52 18.68	−03 18 27.7	16.8	N	K	160
78P	2018 07 24.00761	21 59 24.71	−02 54 48.8	16.5	N	K 160	78P	2018 08 05.97562	21 52 18.57	−03 18 28.2	16.8	N	K	160
78P	2018 07 24.01014	21 59 24.66	−02 54 48.7	17.3	N	K 160	78P	2018 08 05.97654	21 52 18.64	−03 18 27.6	15.9	N		J22
78P	2018 07 24.01268	21 59 24.57	−02 54 49.0	17.3	N	K 160	78P	2018 08 05.97777	21 52 18.43	−03 18 29.2	15.7	N		K77
78P	2018 07 24.33588	21 59 16.04	−02 55 04.2	16.4	R	H47	78P	2018 08 05.97838	21 52 18.46	−03 18 29.0	16.6	N	K	160
78P	2018 07 24.34256	21 59 15.85	−02 55 04.4	16.5	R	H47	78P	2018 08 05.99220	21 52 17.84	−03 18 31.7	15.8	N		K77
78P	2018 07 24.35013	21 59 15.63	−02 55 04.9	16.6	R	H47	78P	2018 08 06.03036	21 52 16.37	−03 18 38.5	16.6	R		B96
78P	2018 07 24.35574	21 59 15.48	−02 55 05.2	16.5	R	H47	78P	2018 08 06.03363	21 52 16.23	−03 18 39.2	16.7	R		B96
78P	2018 07 24.68255	21 59 06.79	−02 55 17.3	16.7	N	Q68	78P	2018 08 06.03854	21 52 16.04	−03 18 39.7	16.9	R		B96
78P	2018 07 24.73044	21 59 05.44	−02 55 19.9	16.6	N	Q68	78P	2018 08 06.53935	21 51 56.22	−03 20 04.4	15.7	o		T08
78P	2018 07 25.51202	21 58 44.17	−02 56 10.7	16.6	o	T08	78P	2018 08 06.55037	21 51 55.77	−03 20 06.3	15.7	o		T08
78P	2018 07 25.52217	21 58 43.89	−02 56 11.3	16.6	o	T08	78P	2018 08 06.56082	21 51 55.33	−03 20 08.2	15.8	o		T08
78P	2018 07 25.53231	21 58 43.57	−02 56 12.1	16.4	o	T08	78P	2018 08 06.95249	21 51 40.11	−03 21 18.9	16.3	N	K	160
78P	2018 07 25.54312	21 58 43.31	−02 56 12.1	17.0	o	T08	78P	2018 08 06.95531	21 51 40.00	−03 21 19.4	16.3	N	K	160
78P	2018 07 31.67036	21 55 33.11	−03 05 35.6	15.0	T	349	78P	2018 08 06.95813	21 51 39.88	−03 21 19.9	16.3	N	K	160
78P	2018 07 31.68159	21 55 32.70	−03 05 36.7			349	78P	2018 08 06.98704	21 51 38.69	−03 21 25.4	16.8	R		B96

78P	2018 08 06.99031	21 51 38.55	−03 21 26.0	17.0	R	B96	78P	2018 08 14.97324	21 46 00.05	−03 49 49.8	15.7	N	J01
78P	2018 08 06.99521	21 51 38.36	−03 21 27.1	16.8	R	B96	78P	2018 08 14.99478	21 45 59.00	−03 49 55.7	15.7	N	J01
78P	2018 08 08.53607	21 50 35.92	−03 26 12.1	16.0	c	T05	78P	2018 08 15.95057	21 45 16.37	−03 53 54.4	15.4	N	C23
78P	2018 08 08.54685	21 50 35.44	−03 26 14.2	16.1	c	T05	78P	2018 08 15.95634	21 45 16.13	−03 53 55.9	15.5	N	C23
78P	2018 08 08.55763	21 50 35.01	−03 26 16.2	16.6	c	T05	78P	2018 08 15.96211	21 45 15.86	−03 53 57.1	15.6	N	C23
78P	2018 08 08.56842	21 50 34.53	−03 26 18.6	16.0	c	T05	78P	2018 08 15.96876	21 45 15.52	−03 53 58.0	16.7	N	K 160
78P	2018 08 08.65883	21 50 31.02	−03 26 36.5	14.9	T	Q11	78P	2018 08 15.97143	21 45 15.39	−03 53 58.7	16.5	N	K 160
78P	2018 08 08.66742	21 50 30.66	−03 26 38.2			Q11	78P	2018 08 15.97407	21 45 15.28	−03 53 59.2	16.4	N	K 160
78P	2018 08 08.67601	21 50 30.29	−03 26 39.7			Q11	78P	2018 08 16.88540	21 44 34.44	−03 57 53.9	15.7	G	C47
78P	2018 08 08.92227	21 50 20.36	−03 27 27.8	15.8	N	Z55	78P	2018 08 16.88983	21 44 34.22	−03 57 54.8	16.9	G	C47
78P	2018 08 08.92368	21 50 20.35	−03 27 28.2	15.9	N	Z55	78P	2018 08 16.89462	21 44 33.98	−03 57 55.5	16.9	G	C47
78P	2018 08 08.92431	21 50 20.26	−03 27 28.6	16.0	N	Z55	78P	2018 08 16.89905	21 44 33.72	−03 57 57.4	17.0	G	C47
78P	2018 08 08.92498	21 50 20.31	−03 27 28.1	15.8	N	Z55	78P	2018 08 16.90422	21 44 33.54	−03 57 59.2	17.2	G	C47
78P	2018 08 09.61198	21 49 51.65	−03 29 41.5	17.1	G	Q38	78P	2018 08 16.90901	21 44 33.32	−03 58 00.4	16.8	G	C47
78P	2018 08 09.61443	21 49 51.49	−03 29 41.4	16.4	G	Q38	78P	2018 08 17.01410	21 44 28.42	−03 58 26.9	15.9	N	K 160
78P	2018 08 09.61786	21 49 51.35	−03 29 41.8	16.5	G	Q38	78P	2018 08 17.01689	21 44 28.29	−03 58 27.6	15.9	N	K 160
78P	2018 08 10.52335	21 49 13.19	−03 32 52.8	15.7	o	T08	78P	2018 08 17.01965	21 44 28.15	−03 58 28.4	15.9	N	K 160
78P	2018 08 10.53381	21 49 12.73	−03 32 55.1	15.7	o	T08	78P	2018 08 17.14126	21 44 22.52	−03 58 59.2	15.5	N	J22
78P	2018 08 10.54485	21 49 12.25	−03 32 57.4	15.7	o	T08	78P	2018 08 17.14535	21 44 22.41	−03 59 01.3	15.5	N	J22
78P	2018 08 10.55540	21 49 11.78	−03 32 59.5	15.7	o	T08	78P	2018 08 17.14928	21 44 22.21	−03 59 01.9	15.5	N	J22
78P	2018 08 10.98351	21 48 53.89	−03 34 31.6	15.7	N	J01	78P	2018 08 17.26286	21 44 17.23	−03 59 31.3	15.4	R	K H47
78P	2018 08 10.99071	21 48 53.57	−03 34 33.9	15.7	N	J01	78P	2018 08 17.27098	21 44 16.85	−03 59 33.4	15.3	R	K H47
78P	2018 08 10.99789	21 48 53.32	−03 34 34.7	15.7	N	J01	78P	2018 08 17.27993	21 44 16.43	−03 59 35.6	15.3	R	K H47
78P	2018 08 11.45488	21 48 33.733	−03 36 11.70	17.2	w	F51	78P	2018 08 17.85413	21 43 50.59	−04 02 08.3	15.4	N	585
78P	2018 08 11.46598	21 48 33.232	−03 36 14.27	17.2	w	F51	78P	2018 08 17.85483	21 43 50.55	−04 02 08.4	15.3	N	585
78P	2018 08 11.47705	21 48 32.737	−03 36 16.68	17.2	w	F51	78P	2018 08 17.85554	21 43 50.49	−04 02 08.6	15.5	N	585
78P	2018 08 11.48813	21 48 32.236	−03 36 19.09	17.3	w	F51	78P	2018 08 17.85625	21 43 50.48	−04 02 08.8	15.5	N	585
78P	2018 08 11.55241	21 48 29.63	−03 36 35.2	14.6	T	D95	78P	2018 08 17.85696	21 43 50.46	−04 02 09.2	15.3	N	585
78P	2018 08 11.55349	21 48 29.58	−03 36 35.3			D95	78P	2018 08 17.85767	21 43 50.42	−04 02 09.1	15.3	N	585
78P	2018 08 11.55673	21 48 29.44	−03 36 36.2			D95	78P	2018 08 17.85838	21 43 50.38	−04 02 09.3	15.3	N	585
78P	2018 08 11.99405	21 48 10.54	−03 38 12.6	15.9	V	K 215	78P	2018 08 17.85908	21 43 50.38	−04 02 09.4	15.3	N	585
78P	2018 08 11.99534	21 48 10.48	−03 38 12.9	15.9	V	K 215	78P	2018 08 17.85979	21 43 50.39	−04 02 09.6	15.4	N	585
78P	2018 08 11.99662	21 48 10.42	−03 38 13.1	16.0	V	K 215	78P	2018 08 17.86050	21 43 50.26	−04 02 09.6	15.3	N	585
78P	2018 08 12.89914	21 47 31.43	−03 41 37.3	16.8	G	C47	78P	2018 08 17.86121	21 43 50.24	−04 02 10.1	15.3	N	585
78P	2018 08 12.90431	21 47 31.19	−03 41 37.9	16.3	G	C47	78P	2018 08 17.86192	21 43 50.23	−04 02 10.1	15.5	N	585
78P	2018 08 12.90985	21 47 30.95	−03 41 39.3	16.4	G	C47	78P	2018 08 17.86535	21 43 50.06	−04 02 11.0	15.2	N	585
78P	2018 08 12.91538	21 47 30.69	−03 41 40.8	17.0	G	C47	78P	2018 08 17.86606	21 43 50.04	−04 02 11.4	15.2	N	585
78P	2018 08 12.92092	21 47 30.48	−03 41 42.2	17.0	G	C47	78P	2018 08 17.86676	21 43 49.99	−04 02 11.8	15.1	N	585
78P	2018 08 12.92645	21 47 30.20	−03 41 43.5	16.5	G	C47	78P	2018 08 17.98661	21 43 44.46	−04 02 43.3	16.1	N	K 160
78P	2018 08 12.94220	21 47 29.54	−03 41 47.6	16.2	V	K A71	78P	2018 08 17.98821	21 43 44.38	−04 02 43.8	16.1	N	K 160
78P	2018 08 12.94758	21 47 29.28	−03 41 49.1	16.2	V	K A71	78P	2018 08 17.99002	21 43 44.30	−04 02 44.4	16.6	N	K 160
78P	2018 08 12.95295	21 47 29.05	−03 41 50.1	16.2	V	K A71	78P	2018 08 18.03631	21 43 42.14	−04 02 57.2	15.9	R	B96
78P	2018 08 14.03811	21 46 41.31	−03 46 03.7	16.3	N	K A77	78P	2018 08 18.04122	21 43 41.92	−04 02 58.7	15.9	R	B96
78P	2018 08 14.04362	21 46 41.07	−03 46 04.8	16.2	N	K A77	78P	2018 08 18.04448	21 43 41.76	−04 02 59.8	15.8	R	B96
78P	2018 08 14.04928	21 46 40.79	−03 46 06.6	16.3	N	K A77	78P	2018 08 18.41110	21 43 25.256	−04 04 35.85	17.2	w	F51
78P	2018 08 14.05600	21 46 40.48	−03 46 07.7	16.2	N	K A77	78P	2018 08 18.42374	21 43 24.647	−04 04 39.41	17.2	w	F51
78P	2018 08 14.51011	21 46 20.37	−03 47 55.7	15.6	o	T08	78P	2018 08 18.43635	21 43 24.055	−04 04 42.78	17.4	w	F51
78P	2018 08 14.52061	21 46 19.88	−03 47 58.2	15.5	o	T08	78P	2018 08 18.44892	21 43 23.452	−04 04 46.19	17.4	w	F51
78P	2018 08 14.53169	21 46 19.36	−03 48 01.1	15.6	o	T08	78P	2018 08 18.48569	21 43 21.68	−04 04 56.4	15.5	o	T08
78P	2018 08 14.54230	21 46 18.89	−03 48 03.5	15.6	o	T08	78P	2018 08 18.49627	21 43 21.18	−04 04 59.4	15.5	o	T08
78P	2018 08 14.96608	21 46 00.34	−03 49 48.6	15.7	N	J01	78P	2018 08 18.50676	21 43 20.69	−04 05 02.2	15.5	o	T08
78P	2018 08 14.96931	21 46 00.17	−03 49 50.1	15.7	N	K77	78P	2018 08 18.51756	21 43 20.18	−04 05 05.1	15.5	o	T08
78P	2018 08 14.97221	21 46 00.04	−03 49 50.8	15.8	N	K77	78P	2018 08 18.95920	21 43 00.32	−04 07 06.1	15.6	N	212

78P	2018 08 18.96353	21 43 00.11	−04 07 07.6	15.6	N		212
78P	2018 08 18.96784	21 42 59.92	−04 07 08.5	15.6	N		212
78P	2018 08 18.99739	21 42 58.47	−04 07 16.7	16.5	N	K	160
78P	2018 08 19.00018	21 42 58.34	−04 07 17.5	16.4	N	K	160
78P	2018 08 19.00297	21 42 58.20	−04 07 18.3	16.4	N	K	160
78P	2018 08 19.95479	21 42 14.95	−04 11 41.8	15.6	N		J01
78P	2018 08 19.96918	21 42 14.25	−04 11 47.1	15.6	N		J01
78P	2018 08 19.99073	21 42 13.22	−04 11 53.1	15.6	N		J01
78P	2018 08 20.49234	21 41 50.14	−04 14 12.4	15.5	o		T05
78P	2018 08 20.50313	21 41 49.63	−04 14 15.4	15.4	o		T05
78P	2018 08 20.51363	21 41 49.12	−04 14 18.2	16.1	o		T05
78P	2018 08 20.52447	21 41 48.62	−04 14 21.3	15.5	o		T05
78P	2018 08 20.96719	21 41 28.55	−04 16 29.1	16.5	N	K	160
78P	2018 08 20.96910	21 41 28.46	−04 16 29.6	16.5	N	K	160
78P	2018 08 20.97101	21 41 28.35	−04 16 29.9	16.5	N	K	160
78P	2018 08 22.85853	21 40 02.12	−04 25 41.1	16.0	G	K	C47
78P	2018 08 22.86222	21 40 01.85	−04 25 41.8	16.7	G	K	C47
78P	2018 08 22.86554	21 40 01.75	−04 25 43.0	16.9	G	K	C47
78P	2018 08 22.86886	21 40 01.63	−04 25 43.8	16.3	G	K	C47
78P	2018 08 22.87218	21 40 01.43	−04 25 45.2	16.9	G	K	C47
78P	2018 08 22.87624	21 40 01.27	−04 25 46.2	16.4	G	K	C47
78P	2018 08 22.90157	21 40 00.00	−04 25 52.9	15.0	N		585
78P	2018 08 22.90227	21 39 59.94	−04 25 53.5	15.1	N		585
78P	2018 08 22.90298	21 39 59.95	−04 25 53.6	15.0	N		585
78P	2018 08 22.90369	21 39 59.92	−04 25 53.8	15.0	N		585
78P	2018 08 22.90440	21 39 59.88	−04 25 54.0	14.9	N		585
78P	2018 08 22.90511	21 39 59.85	−04 25 54.2	15.0	N		585
78P	2018 08 22.90582	21 39 59.74	−04 25 54.1	15.0	N		585
78P	2018 08 22.90653	21 39 59.78	−04 25 54.6	15.1	N		585
78P	2018 08 22.90723	21 39 59.75	−04 25 54.7	15.1	N		585
78P	2018 08 22.90794	21 39 59.72	−04 25 55.0	15.0	N		585
78P	2018 08 22.90865	21 39 59.68	−04 25 55.2	15.1	N		585
78P	2018 08 22.90936	21 39 59.64	−04 25 55.4	15.1	N		585
78P	2018 08 23.41085	21 39 36.85	−04 28 17.9	15.7	N	K	E94
78P	2018 08 23.41561	21 39 36.65	−04 28 19.6	15.7	N	K	E94
78P	2018 08 23.46940	21 39 34.12	−04 28 35.9	15.7	N	K	E94
78P	2018 08 23.47423	21 39 33.87	−04 28 37.4	15.7	N	K	E94
78P	2018 08 23.52714	21 39 31.35	−04 28 52.9	15.7	N	K	E94
78P	2018 08 23.53190	21 39 31.07	−04 28 54.8	15.6	N	K	E94
78P	2018 08 27.99779	21 36 08.79	−04 52 09.2	16.6	N	K	160
78P	2018 08 28.00061	21 36 08.65	−04 52 10.2	16.6	N	K	160
78P	2018 08 28.00343	21 36 08.51	−04 52 11.1	16.4	N	K	160
78P	2018 08 29.00883	21 35 23.75	−04 57 34.9	16.5	N	K	160
78P	2018 08 29.01164	21 35 23.63	−04 57 35.8	16.6	N	K	160
78P	2018 08 29.01444	21 35 23.48	−04 57 36.6	16.5	N	K	160
78P	2018 08 30.18721	21 34 31.83	−05 03 53.2	15.7	N		W96
78P	2018 08 30.21928	21 34 30.33	−05 04 03.6	15.7	N		W96
78P	2018 08 30.97354	21 33 57.62	−05 08 17.7	15.6	N		J38
78P	2018 08 30.97707	21 33 57.46	−05 08 18.9	15.5	N		J38
78P	2018 08 30.98767	21 33 56.95	−05 08 22.2	15.6	N		J38
78P	2018 08 31.86740	21 33 19.09	−05 13 13.8	15.8	R		B96
78P	2018 08 31.87067	21 33 18.92	−05 13 15.2	15.9	R		B96
78P	2018 08 31.87557	21 33 18.73	−05 13 16.7	16.0	R		B96
78P	2018 08 31.95970	21 33 15.02	−05 13 45.2	15.9	N		K02
78P	2018 08 31.96648	21 33 14.75	−05 13 47.6	15.7	N		K02
78P	2018 08 31.97412	21 33 14.39	−05 13 49.5	15.5	N		K02
78P	2018 08 31.99617	21 33 13.39	−05 13 56.7	15.5	N		C23
78P	2018 08 31.99991	21 33 13.24	−05 13 57.5	15.6	N		C23
78P	2018 09 01.00441	21 33 13.05	−05 13 59.7	15.3	N		C23
78P	2018 09 01.29104	21 33 00.81	−05 15 35.4	14.5	G		703
78P	2018 09 01.29632	21 33 00.57	−05 15 37.1	14.5	G		703
78P	2018 09 01.30161	21 33 00.32	−05 15 38.8	14.5	G		703
78P	2018 09 01.30689	21 33 00.09	−05 15 40.6	14.6	G		703
78P	2018 09 01.85812	21 32 36.79	−05 18 44.0	15.8	R		B96
78P	2018 09 01.86303	21 32 36.60	−05 18 45.5	15.8	R		B96
78P	2018 09 01.86630	21 32 36.44	−05 18 47.3	15.9	R		B96
78P	2018 09 02.85618	21 31 54.85	−05 24 19.6	15.8	R		B96
78P	2018 09 02.85946	21 31 54.70	−05 24 20.4	15.9	R		B96
78P	2018 09 02.86435	21 31 54.49	−05 24 21.7	15.9	R		B96
78P	2018 09 03.45290	21 31 29.83	−05 27 38.2	15.4	o		T08
78P	2018 09 03.46353	21 31 29.35	−05 27 41.7	15.4	o		T08
78P	2018 09 03.47365	21 31 28.93	−05 27 45.4	15.5	o		T08
78P	2018 09 03.48436	21 31 28.44	−05 27 48.7	15.5	o		T08
78P	2018 09 04.16661	21 31 00.89	−05 31 40.9	14.7	G		703
78P	2018 09 04.17207	21 31 00.64	−05 31 42.9	14.6	G		703
78P	2018 09 04.17753	21 31 00.42	−05 31 44.8	14.7	G		703
78P	2018 09 04.18299	21 31 00.17	−05 31 46.7	14.7	G		703
78P	2018 09 04.95617	21 30 28.68	−05 36 08.2	15.5	N		458
78P	2018 09 04.95978	21 30 28.62	−05 36 09.9	15.5	N		458
78P	2018 09 05.84585	21 29 53.36	−05 41 10.5	15.6	N	K	L05
78P	2018 09 05.86974	21 29 52.40	−05 41 18.4	15.7	N	K	L05
78P	2018 09 05.88939	21 29 51.57	−05 41 26.1	15.8	R	K	215
78P	2018 09 05.89068	21 29 51.52	−05 41 26.6	15.9	R	K	215
78P	2018 09 05.89196	21 29 51.47	−05 41 27.1	15.8	R	K	215
78P	2018 09 06.53334	21 29 26.50	−05 44 59.6	16.0	N		323
78P	2018 09 06.57762	21 29 24.76	−05 45 13.7	16.1	N		323
78P	2018 09 07.18094	21 29 01.55	−05 48 45.8	14.8	G		703
78P	2018 09 07.18269	21 29 01.45	−05 48 45.8	14.9	G		G96
78P	2018 09 07.18669	21 29 01.33	−05 48 48.1	14.6	G		703
78P	2018 09 07.18832	21 29 01.21	−05 48 47.7	14.9	G		G96
78P	2018 09 07.19243	21 29 01.09	−05 48 50.1	14.6	G		703
78P	2018 09 07.19396	21 29 00.98	−05 48 49.6	14.9	G		G96
78P	2018 09 07.19817	21 29 00.85	−05 48 51.9	14.6	G		703
78P	2018 09 07.19957	21 29 00.76	−05 48 51.6	15.0	G		G96
78P	2018 09 07.52016	21 28 48.47	−05 50 34.6	16.1	G		Q38
78P	2018 09 07.52309	21 28 48.32	−05 50 35.7	16.1	G		Q38
78P	2018 09 07.52552	21 28 48.24	−05 50 36.5	16.2	G		Q38
78P	2018 09 07.53197	21 28 48.13	−05 50 38.6	16.0	N		323
78P	2018 09 07.53503	21 28 48.02	−05 50 39.8	15.9	N		323
78P	2018 09 08.70819	21 28 03.88	−05 57 20.7	16.0	N		323
78P	2018 09 08.70990	21 28 04.04	−05 57 25.1	16.5	N		C97
78P	2018 09 08.71294	21 28 03.91	−05 57 26.3	16.5	N		C97
78P	2018 09 08.75928	21 28 01.81	−05 57 37.2	16.0	N		323
78P	2018 09 09.44136	21 27 37.12	−06 01 34.1	15.4	o		T05
78P	2018 09 09.45193	21 27 36.72	−06 01 37.6	15.4	o		T05
78P	2018 09 09.46202	21 27 36.34	−06 01 41.1	15.4	o		T05

78P	2018 09 09.47268	21 27 35.94	−06 01 44.7	15.4	o	T05
78P	2018 09 09.89564	21 27 21.21	−06 04 10.3	15.5	N	J22
78P	2018 09 09.90172	21 27 20.98	−06 04 11.0	15.5	N	J22
78P	2018 09 09.90369	21 27 20.91	−06 04 12.1	15.5	N	J22
78P	2018 09 09.90550	21 27 20.71	−06 04 13.7	15.6	N	J01
78P	2018 09 09.91981	21 27 20.18	−06 04 18.8	15.6	N	J01
78P	2018 09 09.92697	21 27 19.91	−06 04 20.6	15.6	N	J01
78P	2018 09 10.15941	21 27 11.92	−06 05 40.1	14.6	G	703
78P	2018 09 10.16467	21 27 11.77	−06 05 41.9	14.6	G	703
78P	2018 09 10.16994	21 27 11.57	−06 05 43.8	14.6	G	703
78P	2018 09 10.17521	21 27 11.37	−06 05 45.5	14.5	G	703
78P	2018 09 10.38781	21 27 03.80	−06 06 50.6	15.6	N	Q68
78P	2018 09 10.41349	21 27 02.86	−06 06 59.7	15.8	N	Q68
78P	2018 09 10.99810	21 26 42.37	−06 10 23.9	15.6	N	J22
78P	2018 09 11.00223	21 26 42.24	−06 10 24.6	15.6	N	J22
78P	2018 09 11.00613	21 26 42.12	−06 10 26.3	15.6	N	J22
78P	2018 09 11.43292	21 26 27.45	−06 12 50.3	15.6	o	T08
78P	2018 09 11.44279	21 26 27.34	−06 12 48.9	15.8	N	Q68
78P	2018 09 11.44351	21 26 27.07	−06 12 53.9	15.5	o	T08
78P	2018 09 11.45360	21 26 26.70	−06 12 57.3	15.5	o	T08
78P	2018 09 11.46427	21 26 26.32	−06 13 01.0	15.5	o	T08
78P	2018 09 11.46767	21 26 26.45	−06 12 57.3	15.8	N	Q68
78P	2018 09 12.35714	21 25 56.85	−06 17 57.4	15.4	N	E89
78P	2018 09 12.35847	21 25 56.74	−06 17 57.0	15.5	N	E89
78P	2018 09 12.36858	21 25 56.44	−06 18 01.7	15.6	N	E89
78P	2018 09 12.37617	21 25 56.24	−06 18 03.7	15.6	N	E89
78P	2018 09 12.39135	21 25 55.66	−06 18 08.1	15.5	N	E89
78P	2018 09 12.39985	21 25 55.31	−06 18 12.0	15.7	N	E89
78P	2018 09 12.40293	21 25 55.21	−06 18 13.1	15.6	N	E89
78P	2018 09 12.46288	21 25 53.42	−06 18 33.5	15.7	N	Q68
78P	2018 09 12.48879	21 25 52.43	−06 18 42.2	15.8	N	Q68
78P	2018 09 12.83002	21 25 41.40	−06 20 43.7	16.5	V	K A71
78P	2018 09 12.83942	21 25 41.07	−06 20 47.2	16.5	V	K A71
78P	2018 09 12.84792	21 25 40.81	−06 20 49.7	16.5	V	K A71
78P	2018 09 13.16007	21 25 31.14	−06 22 35.0	14.3	G	703
78P	2018 09 13.16551	21 25 30.92	−06 22 36.4	14.3	G	703
78P	2018 09 13.17095	21 25 30.75	−06 22 38.3	14.4	G	703
78P	2018 09 13.17639	21 25 30.55	−06 22 40.2	14.4	G	703
78P	2018 09 14.16464	21 24 59.53	−06 28 10.5	14.8	G	G96
78P	2018 09 14.17039	21 24 59.35	−06 28 12.5	14.8	G	G96
78P	2018 09 14.17613	21 24 59.16	−06 28 14.4	14.8	G	G96
78P	2018 09 14.18188	21 24 58.97	−06 28 16.2	14.8	G	G96
78P	2018 09 14.45514	21 24 50.58	−06 29 41.3	15.8	N	Q68
78P	2018 09 14.48458	21 24 49.72	−06 29 51.0	15.8	N	Q68
78P	2018 09 14.88208	21 24 37.67	−06 32 09.8	16.8	N	K 160
78P	2018 09 14.88468	21 24 37.58	−06 32 10.6	16.7	N	K 160
78P	2018 09 14.88727	21 24 37.53	−06 32 11.4	16.0	N	K 160
78P	2018 09 14.91893	21 24 36.58	−06 32 21.7	16.2	N	K A77
78P	2018 09 14.92403	21 24 36.41	−06 32 24.0	16.4	N	K A77
78P	2018 09 14.92835	21 24 36.27	−06 32 25.0	16.4	N	K A77
78P	2018 09 14.94862	21 24 35.69	−06 32 32.1	15.8	N	A98
78P	2018 09 14.95836	21 24 35.34	−06 32 35.0	15.6	N	A98
78P	2018 09 14.96278	21 24 35.17	−06 32 36.5	15.6	N	A98
78P	2018 09 14.96543	21 24 35.09	−06 32 37.8	15.8	N	A98
78P	2018 09 15.40281	21 24 22.33	−06 35 00.7	15.5	o	T08
78P	2018 09 15.40470	21 24 22.29	−06 35 01.3	15.5	o	T08
78P	2018 09 15.41282	21 24 22.01	−06 35 04.0	15.5	o	T08
78P	2018 09 15.41472	21 24 21.96	−06 35 04.5	15.6	o	T08
78P	2018 09 15.42281	21 24 21.71	−06 35 07.3	15.5	o	T08
78P	2018 09 15.42469	21 24 21.64	−06 35 07.7	15.5	o	T08
78P	2018 09 15.43281	21 24 21.39	−06 35 10.6	15.5	o	T08
78P	2018 09 15.43466	21 24 21.34	−06 35 11.0	15.5	o	T08
78P	2018 09 15.84442	21 24 09.78	−06 37 29.9	15.2	N	K77
78P	2018 09 15.85302	21 24 09.55	−06 37 32.5	15.1	N	K77
78P	2018 09 15.93072	21 24 07.25	−06 37 56.7	15.5	N	J01
78P	2018 09 15.93447	21 24 07.17	−06 37 57.5	15.6	N	J01
78P	2018 09 15.93815	21 24 07.04	−06 37 58.5	15.6	N	J01
78P	2018 09 17.41041	21 23 26.68	−06 45 59.1	15.5	o	T05
78P	2018 09 17.42051	21 23 26.38	−06 46 02.5	15.5	o	T05
78P	2018 09 17.43049	21 23 26.12	−06 46 05.7	15.5	o	T05
78P	2018 09 17.44053	21 23 25.82	−06 46 08.9	15.5	o	T05
78P	2018 09 17.47361	21 23 25.25	−06 46 20.5			K 367
78P	2018 09 17.47645	21 23 25.16	−06 46 21.6			K 367
78P	2018 09 17.47928	21 23 25.09	−06 46 22.4	14.9	T	K 367
78P	2018 09 17.79488	21 23 16.99	−06 48 05.0	15.4	R	K A77
78P	2018 09 17.80428	21 23 16.72	−06 48 08.2	15.5	R	K A77
78P	2018 09 17.81373	21 23 16.46	−06 48 11.3	15.6	R	K A77
78P	2018 09 19.24991	21 22 40.44	−06 55 46.8	16.0	N	KW96
78P	2018 09 19.27665	21 22 39.81	−06 55 55.5	16.0	N	KW96
78P	2018 09 19.39329	21 22 37.20	−06 56 36.4	16.1	o	T08
78P	2018 09 19.40337	21 22 36.98	−06 56 39.4	15.6	o	T08
78P	2018 09 19.40479	21 22 36.90	−06 56 40.2	15.6	o	T08
78P	2018 09 19.41343	21 22 36.69	−06 56 42.8	16.0	o	T08
78P	2018 09 19.41488	21 22 36.67	−06 56 43.3	15.6	o	T08
78P	2018 09 19.42348	21 22 36.41	−06 56 45.6	16.2	o	T08
78P	2018 09 19.42490	21 22 36.42	−06 56 46.3	15.5	o	T08
78P	2018 09 19.43494	21 22 36.18	−06 56 49.6	15.6	o	T08

94P/Russell

94P	2018 06 10.54930	20 17 34.100	−24 52 27.02	21.3	w	F51
94P	2018 06 10.57127	20 17 33.516	−24 52 30.84	21.3	w	F51
94P	2018 06 10.58226	20 17 33.222	−24 52 33.19	21.6	w	F51
94P	2018 06 17.51860	20 14 16.164	−25 13 56.01	21.3	w	F51
94P	2018 06 17.53026	20 14 15.774	−25 13 58.17	21.3	w	F51
94P	2018 06 17.54190	20 14 15.392	−25 14 00.44	21.2	w	F51
94P	2018 06 17.55352	20 14 15.006	−25 14 02.62	21.1	w	F51
94P	2018 06 18.51306	20 13 44.067	−25 17 05.89	21.0	w	F51
94P	2018 06 18.52276	20 13 43.739	−25 17 07.92	21.2	w	F51
94P	2018 06 18.53243	20 13 43.401	−25 17 09.71	21.0	w	F51
94P	2018 06 18.54212	20 13 43.079	−25 17 11.53	21.2	w	F51
94P	2018 07 10.44516	19 58 51.514	−26 26 51.30	20.6	w	F51
94P	2018 07 10.45644	19 58 50.981	−26 26 53.18	20.7	w	F51
94P	2018 07 10.46779	19 58 50.435	−26 26 55.19	20.7	w	F51
94P	2018 07 13.41366	19 56 32.964	−26 35 28.25	20.6	w	F51
94P	2018 07 13.42359	19 56 32.487	−26 35 29.89	20.6	w	F51

94P	2018 07 13.43348	19 56 32.010	−26 35 31.79	20.7	w		F51
94P	2018 07 13.44338	19 56 31.531	−26 35 33.37	20.6	w		F51

105P/Singer Brewster

105P	2018 04 18.94329	12 22 56.01	−01 24 14.5	17.6	N	K	160
105P	2018 04 18.94592	12 22 55.96	−01 24 12.7	17.1	N	K	160
105P	2018 04 18.94856	12 22 55.87	−01 24 11.0	18.3	N	K	160
105P	2018 05 07.19483	12 18 21.04	+00 49 40.7	17.6	R		H47
105P	2018 05 07.20269	12 18 21.01	+00 49 43.4	17.6	R		H47
105P	2018 05 07.20979	12 18 20.99	+00 49 45.3	17.3	R		H47
105P	2018 05 07.22156	12 18 20.94	+00 49 49.1	17.7	R		H47
105P	2018 05 16.93409	12 19 29.82	+01 29 57.4	17.7	N		J22
105P	2018 05 16.94006	12 19 29.94	+01 29 57.7	17.7	N		J22
105P	2018 05 26.86992	12 23 26.30	+01 46 33.9	18.2	N	K	160
105P	2018 05 26.87231	12 23 26.39	+01 46 34.1	18.2	N	K	160
105P	2018 05 26.87470	12 23 26.47	+01 46 33.9	17.9	N	K	160
105P	2018 05 31.38496	12 26 07.01	+01 46 20.4	17.7	o		T05
105P	2018 05 31.39097	12 26 07.25	+01 46 19.2	18.4	o		T05
105P	2018 05 31.39773	12 26 07.50	+01 46 19.5	18.1	o		T05
105P	2018 05 31.40698	12 26 07.86	+01 46 18.9	17.2	o		T05
105P	2018 06 01.85657	12 27 06.43	+01 45 12.8	18.3	N	K	160
105P	2018 06 01.85908	12 27 06.52	+01 45 12.2	18.0	N	K	160
105P	2018 06 01.86159	12 27 06.62	+01 45 11.9	18.1	N	K	160
105P	2018 06 01.89617	12 27 08.07	+01 45 11.6	17.8	N	9	G40
105P	2018 06 01.90417	12 27 08.39	+01 45 11.2	18.1	N	9	G40
105P	2018 06 02.52236	12 27 34.27	+01 44 33.9	16.8	T		349
105P	2018 06 02.53359	12 27 34.72	+01 44 33.4				349
105P	2018 06 02.91701	12 27 51.20	+01 44 09.8	17.9	N		J22
105P	2018 06 02.92089	12 27 51.33	+01 44 08.4	17.9	N		J22
105P	2018 06 02.92478	12 27 51.42	+01 44 07.9	17.9	N		J22
105P	2018 06 04.27633	12 28 50.88	+01 42 23.4	17.5	G		703
105P	2018 06 04.28167	12 28 51.16	+01 42 23.1	17.4	G		703
105P	2018 06 04.28701	12 28 51.34	+01 42 23.7	17.4	G		703
105P	2018 06 04.29234	12 28 51.64	+01 42 22.8	17.1	G		703
105P	2018 06 04.91792	12 29 20.20	+01 41 28.3	19	R		C51
Geocentric position (km)		− 6794.6709	− 954.0544	+ 11.9733			
105P	2018 06 05.17973	12 29 32.29	+01 41 02.4				C51
Geocentric position (km)		− 6790.5603	− 981.7468	+ 36.9446			
105P	2018 06 05.31063	12 29 38.25	+01 40 51.1				C51
Geocentric position (km)		− 6788.4272	− 995.5826	+ 49.4207			
105P	2018 06 05.31346	12 29 38.37	+01 40 48.9	18.3	o		T05
105P	2018 06 05.32500	12 29 38.86	+01 40 47.2	18.5	o		T05
105P	2018 06 05.32729	12 29 39.04	+01 40 47.6	17.8	o		T05
105P	2018 06 05.34247	12 29 39.68	+01 40 46.3	17.7	o		T05
105P	2018 06 05.37596	12 29 41.45	+01 40 45.4				C51
Geocentric position (km)		− 6786.0462	− 1013.2098	− 27.4775			
105P	2018 06 05.37608	12 29 41.36	+01 40 44.1				C51
Geocentric position (km)		− 6787.3447	− 1002.4957	+ 55.6789			
105P	2018 06 05.50686	12 29 47.48	+01 40 31.1				C51
Geocentric position (km)		− 6783.9684	− 1027.0417	− 14.9099			
105P	2018 06 05.57231	12 29 50.50	+01 40 24.0				C51
Geocentric position (km)		− 6782.9064	− 1033.9600	− 8.6684			
105P	2018 06 05.63776	12 29 53.54	+01 40 18.5				C51
Geocentric position (km)		− 6781.8372	− 1040.8717	− 2.3885			
105P	2018 06 05.89957	12 30 05.99	+01 39 50.7				C51
Geocentric position (km)		− 6777.4245	− 1068.4913	+ 22.7860			
105P	2018 06 06.03034	12 30 12.15	+01 39 36.1				C51
Geocentric position (km)		− 6773.4763	− 1092.9494	− 47.8055			
105P	2018 06 06.16125	12 30 18.40	+01 39 22.0				C51
Geocentric position (km)		− 6771.2756	− 1106.7528	− 35.1649			
105P	2018 06 06.20304	12 30 20.40	+01 39 15.7	17.2	G		703
105P	2018 06 06.20852	12 30 20.74	+01 39 14.9	17.1	G		703
105P	2018 06 06.21400	12 30 20.94	+01 39 13.6	17.3	G		703
105P	2018 06 06.21949	12 30 21.33	+01 39 13.0	16.7	G		703
105P	2018 06 06.89269	12 30 53.51	+01 37 53.5	16.9	N	K	585
105P	2018 06 06.89340	12 30 53.56	+01 37 54.3	16.9	N	K	585
105P	2018 06 06.89375	12 30 53.55	+01 37 54.0	16.8	N	K	585
105P	2018 06 06.89411	12 30 53.57	+01 37 54.1	16.7	N	K	585
105P	2018 06 06.89446	12 30 53.59	+01 37 54.0	16.7	N	K	585
105P	2018 06 07.29520	12 31 13.337	+01 37 06.68	19.2	w		F51
105P	2018 06 07.30704	12 31 13.904	+01 37 05.20	19.3	w		F51
105P	2018 06 10.86618	12 34 18.66	+01 28 25.0	18.8	N	K	A71
105P	2018 06 10.87596	12 34 19.27	+01 28 22.6	18.0	N	K	A71
105P	2018 06 11.20125	12 34 37.14	+01 27 28.6	17.1	G		703
105P	2018 06 11.20656	12 34 37.43	+01 27 28.3	17.0	G		703
105P	2018 06 11.21188	12 34 37.74	+01 27 26.9	17.0	G		703
105P	2018 06 11.21720	12 34 37.95	+01 27 26.9	17.0	G		703
105P	2018 06 13.34194	12 36 37.51	+01 20 56.1	18.6	o		T05
105P	2018 06 13.35264	12 36 38.05	+01 20 52.7	18.3	o		T05
105P	2018 06 13.36337	12 36 38.68	+01 20 50.4	18.5	o		T05
105P	2018 06 13.37410	12 36 39.33	+01 20 48.8	17.6	o		T05
105P	2018 06 14.27576	12 37 32.23	+01 17 51.8	18.6	N		E85
105P	2018 06 14.27934	12 37 32.39	+01 17 51.6	18.9	N		E85
105P	2018 06 14.28293	12 37 32.67	+01 17 51.0	19.5	N		E85
105P	2018 06 14.28652	12 37 32.82	+01 17 49.2	18.5	N		E85
105P	2018 06 14.90791	12 38 09.59	+01 15 33.9	18.1	N		J22
105P	2018 06 14.91183	12 38 09.92	+01 15 32.4	18.1	N		J22
105P	2018 06 14.91575	12 38 10.08	+01 15 31.0	18.1	N		J22
105P	2018 06 15.33233	12 38 35.12	+01 14 02.1	17.9	o		T08
105P	2018 06 15.34309	12 38 35.70	+01 13 59.6	18.0	o		T08
105P	2018 06 15.35384	12 38 36.36	+01 13 58.1	18.3	o		T08
105P	2018 06 15.36463	12 38 36.92	+01 13 54.7	18.4	o		T08
105P	2018 06 15.86636	12 39 07.50	+01 12 01.4	18.6	N	K	160
105P	2018 06 15.86876	12 39 07.61	+01 12 00.4	19.1	N	K	160
105P	2018 06 15.87116	12 39 07.74	+01 12 00.1	18.4	N	K	160
105P	2018 06 16.51916	12 39 47.66	+01 09 33.8			K	367
105P	2018 06 16.52179	12 39 47.86	+01 09 33.0	17.6	T	K	367
105P	2018 06 17.04859	12 40 20.59	+01 07 34.7	18.0	R	K	I47
105P	2018 06 17.05723	12 40 21.23	+01 07 33.3	18.0	R	K	I47
105P	2018 06 17.06586	12 40 21.79	+01 07 31.3	18.0	R	K	I47
105P	2018 06 17.33593	12 40 38.62	+01 06 21.8	18.6	c		T05
105P	2018 06 17.34549	12 40 39.21	+01 06 20.3	18.4	c		T05
105P	2018 06 17.34696	12 40 39.12	+01 06 19.4	18.1	c		T05
105P	2018 06 17.35778	12 40 39.98	+01 06 16.8	18.7	c		T05
105P	2018 06 17.36710	12 40 40.52	+01 06 14.7	19.0	c		T05

105P	2018 06 17.36847	12 40 40.60	+01 06 14.3	18.6	c	T05
105P	2018 06 17.37783	12 40 41.19	+01 06 12.1	19.0	c	T05
105P	2018 06 18.88947	12 42 17.98	+00 59 51.4	17.9	N	K 160
105P	2018 06 18.89157	12 42 18.08	+00 59 52.8	17.2	N	K 160
105P	2018 06 18.89367	12 42 18.30	+00 59 51.4	18.1	N	K 160
105P	2018 06 19.31293	12 42 45.60	+00 58 07.2	18.4	o	T08
105P	2018 06 19.32330	12 42 46.24	+00 58 04.3	18.3	o	T08
105P	2018 06 19.33425	12 42 46.89	+00 58 01.9	17.8	o	T08
105P	2018 06 19.34466	12 42 47.65	+00 57 59.4	18.5	o	T08
105P	2018 06 30.35692	12 55 58.34	+00 00 31.2	18.5	N	K Q68
105P	2018 06 30.38200	12 56 00.23	+00 00 23.5	18.2	N	K Q68
105P	2018 07 03.18222	12 59 41.94	−00 17 09.1	16.9	G	703
105P	2018 07 03.18779	12 59 42.40	−00 17 10.5	17.0	G	703
105P	2018 07 03.19336	12 59 42.75	−00 17 12.2			703
105P	2018 07 03.19893	12 59 43.29	−00 17 14.6	17.4	G	703
105P	2018 07 04.33409	13 01 15.35	−00 24 31.6	18.9	N	Q68
105P	2018 07 04.38137	13 01 19.27	−00 24 48.3	18.2	N	Q68
105P	2018 07 05.18171	13 02 24.95	−00 30 08.6			703
105P	2018 07 05.18720	13 02 25.43	−00 30 11.6	17.2	G	703
105P	2018 07 05.19270	13 02 25.94	−00 30 13.8	17.6	G	703
105P	2018 07 05.19819	13 02 26.37	−00 30 17.9	17.3	G	703
105P	2018 07 11.30845	13 11 08.21	−01 13 00.7	19.0	c	T05
105P	2018 07 11.31940	13 11 09.17	−01 13 05.3	19.1	c	T05
105P	2018 07 11.33036	13 11 10.08	−01 13 09.3	19.0	c	T05
105P	2018 07 11.34124	13 11 10.99	−01 13 14.9	19.0	c	T05
105P	2018 07 12.33892	13 12 39.81	−01 20 30.5	18.3	N	K Q68
105P	2018 07 12.35345	13 12 41.08	−01 20 38.4	18.5	N	K Q68
105P	2018 07 12.51131	13 12 55.05	−01 21 55.3	18.2	R	D29
105P	2018 07 12.52545	13 12 56.30	−01 22 00.8	18.0	R	D29
105P	2018 07 12.53959	13 12 57.58	−01 22 07.5	17.7	R	D29
105P	2018 07 12.89003	13 13 28.80	−01 24 45.2			9 G40
105P	2018 07 12.89491	13 13 29.27	−01 24 47.2	18.8	T	9 G40
105P	2018 07 13.90029	13 14 59.78	−01 32 23.0	18.0		K 215
105P	2018 07 13.90190	13 15 00.00	−01 32 23.3	18.2		K 215
105P	2018 07 13.90354	13 15 00.11	−01 32 23.2	18.4		K 215
105P	2018 07 14.41435	13 15 46.57	−01 36 11.1	18.3	N	Q68
105P	2018 07 14.42884	13 15 47.77	−01 36 18.3	18.1	N	Q68
105P	2018 07 14.48087	13 15 52.44	−01 36 47.3			K Q11
105P	2018 07 14.48514	13 15 52.82	−01 36 49.1			K Q11
105P	2018 07 14.48906	13 15 53.18	−01 36 51.0	17.9	T	K Q11
105P	2018 07 15.42370	13 17 18.66	−01 43 56.7	18.6	N	Q68
105P	2018 07 15.43645	13 17 19.86	−01 44 04.5	18.4	N	Q68
105P	2018 07 16.34785	13 18 43.97	−01 51 08.4	18.5	N	Q68
105P	2018 07 16.35909	13 18 44.99	−01 51 11.4	18.8	N	Q68
105P	2018 07 17.27897	13 20 10.33	−01 58 30.1	18.4	o	T08
105P	2018 07 17.28085	13 20 10.52	−01 58 32.6	18.3	o	T08
105P	2018 07 17.28900	13 20 11.19	−01 58 35.9	18.6	o	T08
105P	2018 07 17.29957	13 20 12.22	−01 58 40.6	18.6	o	T08
105P	2018 07 17.30146	13 20 12.39	−01 58 43.2	18.8	o	T08
105P	2018 07 17.37994	13 20 19.67	−01 59 14.1	18.7	N	Q68
105P	2018 07 17.40215	13 20 21.83	−01 59 25.3	18.3	N	Q68
105P	2018 08 11.248018	14 02 43.483	−05 35 04.63	21.2	G	29 568
105P	2018 08 11.249845	14 02 43.684	−05 35 05.65	20.7	G	29 568
105P	2018 08 11.251733	14 02 43.887	−05 35 06.68	20.9	G	29 568
105P	2018 08 11.253629	14 02 44.095	−05 35 07.72	20.9	G	29 568

123P/West-Hartley

123P	2018 08 17.18958	07 08 35.05	+30 53 20.1	18.1	T	9 G40
123P	2018 08 17.20170	07 08 36.57	+30 53 20.8	18.1	T	9 G40
123P	2018 09 02.09739	07 43 04.10	+30 47 39.5	15.8	N	K I81
123P	2018 09 02.09956	07 43 04.12	+30 47 38.3	15.5	N	K I81
123P	2018 09 09.11769	07 58 19.78	+30 39 23.4	17.5	R	K 215
123P	2018 09 09.11961	07 58 20.12	+30 39 22.5	17.8	R	K 215
123P	2018 09 09.12154	07 58 20.33	+30 39 21.9	18.1	R	K 215
123P	2018 09 10.12395	08 00 30.83	+30 37 55.1	18.2	N	K77
123P	2018 09 10.12973	08 00 31.70	+30 37 54.3	18.2	N	K77
123P	2018 09 14.13868	08 09 13.72	+30 31 27.4	17.6	N	K C23
123P	2018 09 14.14229	08 09 14.16	+30 31 28.1	17.4	N	K C23
123P	2018 09 14.14590	08 09 14.57	+30 31 27.3	17.3	N	K C23

125P/Spacewatch

125P	2018 05 14.92392	10 03 32.02	+17 58 47.0	17.9	N	17G40
125P	2018 05 14.92777	10 03 32.31	+17 58 45.5	17.9	N	17G40
125P	2018 05 16.95315	10 06 10.08	+17 51 13.8	18.6	N	J22
125P	2018 05 16.95762	10 06 10.41	+17 51 12.6	18.6	N	J22
125P	2018 05 16.96209	10 06 10.78	+17 51 11.6	18.6	N	J22
125P	2018 06 04.19670	10 34 23.61	+16 06 34.5	17.8	G	703
125P	2018 06 04.21408	10 34 25.37	+16 06 27.7	17.4	G	703
125P	2018 06 04.88263	10 35 35.73	+16 01 27.0	18.2	N	17G40
125P	2018 06 04.88554	10 35 36.03	+16 01 25.6	18.0	N	17G40
125P	2018 06 06.86928	10 39 08.02	+15 45 55.4	17.4	N	K 585
125P	2018 06 06.86999	10 39 08.01	+15 45 55.0	17.6	N	K 585
125P	2018 06 06.87070	10 39 08.19	+15 45 54.2	18.0	N	K 585
125P	2018 06 06.87141	10 39 08.21	+15 45 54.0	17.7	N	K 585
125P	2018 06 06.87212	10 39 08.27	+15 45 53.2	17.6	N	K 585
125P	2018 06 06.87248	10 39 08.35	+15 45 53.1	17.6	N	K 585
125P	2018 06 06.87283	10 39 08.39	+15 45 52.2	17.8	N	K 585
125P	2018 06 06.87354	10 39 08.47	+15 45 52.2	17.8	N	K 585
125P	2018 06 06.87533	10 39 08.66	+15 45 51.4	17.9	N	K 585
125P	2018 06 06.87568	10 39 08.70	+15 45 51.4	17.9	N	K 585
125P	2018 06 06.87604	10 39 08.75	+15 45 51.1	17.8	N	K 585
125P	2018 06 07.15845	10 39 39.28	+15 43 37.4	17.7	G	703
125P	2018 06 07.16413	10 39 39.84	+15 43 34.7			703
125P	2018 06 07.16980	10 39 40.53	+15 43 31.5	17.6	G	703
125P	2018 06 07.17547	10 39 41.06	+15 43 29.0	17.6	G	703
125P	2018 06 07.91179	10 41 01.16	+15 37 31.2	18.2	T	9 G40
125P	2018 06 07.91953	10 41 02.04	+15 37 27.2	18.1	T	9 G40
125P	2018 06 10.16001	10 45 09.64	+15 18 38.4	17.2	G	703
125P	2018 06 10.16522	10 45 10.23	+15 18 36.3	17.3	G	703
125P	2018 06 10.17044	10 45 10.76	+15 18 33.5	17.1	G	703
125P	2018 06 10.17566	10 45 11.39	+15 18 30.5	17.4	G	703
125P	2018 06 12.24793	10 49 05.36	+15 00 19.8	18.2	o	T08
125P	2018 06 12.25501	10 49 06.12	+15 00 16.5	18.2	o	T08
125P	2018 06 12.26490	10 49 07.26	+15 00 10.9	18.2	o	T08
125P	2018 06 12.27563	10 49 08.48	+15 00 05.3	18.3	o	T08
125P	2018 06 13.49258	10 51 28.07	+14 49 00.3			K Q11
125P	2018 06 13.50113	10 51 29.04	+14 48 55.9			K Q11

125P	2018 06 13.50577	10 51 29.55	+14 48 53.2	17.1	T	K Q11		125P	2018 07 12.27899	11 53 11.16	+09 15 22.5	17.7	c	T05		
125P	2018 06 16.25711	10 56 51.08	+14 22 55.5	17.7	o	T08		125P	2018 07 12.29090	11 53 12.79	+09 15 12.3	18.0	c	T05		
125P	2018 06 16.26704	10 56 52.28	+14 22 49.3	17.8	o	T08		125P	2018 07 14.26634	11 57 51.61	+08 47 43.7	17.5	o	T08		
125P	2018 06 16.27761	10 56 53.49	+14 22 43.6	18.1	o	T08		125P	2018 07 14.27900	11 57 53.45	+08 47 32.3	17.1	o	T08		
125P	2018 06 16.84488	10 58 00.70	+14 17 09.6	18.2	N	K 160		125P	2018 07 14.28725	11 57 54.59	+08 47 25.4	17.3	o	T08		
125P	2018 06 16.84721	10 58 00.98	+14 17 08.0	18.0	N	K 160		125P	2018 07 15.48218	12 00 44.59	+08 30 32.2	17.0	T	K Q11		
125P	2018 06 16.84954	10 58 01.19	+14 17 07.9	18.3	N	K 160		125P	2018 07 15.48575	12 00 45.09	+08 30 28.8			K Q11		
125P	2018 06 20.90906	11 06 11.87	+13 35 57.6	17.4	T	20G40		125P	2018 07 15.48933	12 00 45.61	+08 30 26.1			K Q11		
125P	2018 06 20.91105	11 06 12.07	+13 35 57.2	17.7	T	20G40		125P	2018 07 16.25114	12 02 34.51	+08 19 35.2	17.7	c	T05		
125P	2018 06 22.26186	11 08 58.91	+13 21 37.4	17.7	o	T05		125P	2018 07 16.25600	12 02 35.29	+08 19 32.3	17.9	c	T05		
125P	2018 06 22.27266	11 09 00.21	+13 21 30.3	18.1	o	T05		125P	2018 07 16.26390	12 02 36.39	+08 19 24.7	17.2	c	T05		
125P	2018 06 22.28391	11 09 01.68	+13 21 21.6	17.3	o	T05		125P	2018 07 16.27418	12 02 37.86	+08 19 16.0	17.6	c	T05		
125P	2018 06 22.29371	11 09 02.76	+13 21 16.3	17.6	o	T05		125P	2018 07 19.25812	12 09 48.37	+07 36 03.1	17.5	o	T05		
125P	2018 06 24.16148	11 12 56.27	+13 00 55.2	17.1	G	703		125P	2018 07 19.26802	12 09 49.91	+07 35 54.4	16.8	o	T05		
125P	2018 06 24.16677	11 12 56.88	+13 00 51.0	17.2	G	703		125P	2018 07 19.26950	12 09 50.08	+07 35 53.4	16.8	o	T05		
125P	2018 06 24.17207	11 12 57.60	+13 00 47.7	17.1	G	703		125P	2018 07 19.27135	12 09 50.36	+07 35 51.6	16.6	o	T05		
125P	2018 06 24.17736	11 12 58.25	+13 00 44.6	17.3	G	703		125P	2018 07 19.27797	12 09 51.28	+07 35 46.0	17.7	o	T05		
125P	2018 06 25.16192	11 15 02.47	+12 49 47.1	17.2	G	703		125P	2018 07 19.27949	12 09 51.54	+07 35 44.2	17.4	o	T05		
125P	2018 06 25.16733	11 15 03.21	+12 49 44.3	17.1	G	703		125P	2018 07 19.28148	12 09 51.88	+07 35 41.9	16.9	o	T05		
125P	2018 06 25.17275	11 15 03.87	+12 49 40.6	17.0	G	703		125P	2018 07 19.28839	12 09 52.75	+07 35 37.0	17.5	o	T05		
125P	2018 06 25.17816	11 15 04.58	+12 49 36.8			703		125P	2018 07 19.28995	12 09 53.04	+07 35 35.1	16.9	o	T05		
125P	2018 06 27.27805	11 19 32.43	+12 25 43.5	17.1	o	T08		125P	2018 07 19.29194	12 09 53.29	+07 35 34.0	17.5	o	T05		
125P	2018 06 27.28708	11 19 33.57	+12 25 39.4	17.3	o	T08		125P	2018 07 19.30032	12 09 54.55	+07 35 25.9	16.4	o	T05		
125P	2018 06 27.29622	11 19 34.71	+12 25 32.5	17.9	o	T08		125P	2018 07 19.30236	12 09 54.78	+07 35 24.3	17.6	o	T05		
125P	2018 06 27.30492	11 19 35.73	+12 25 27.4	18.1	o	T08		125P	2018 07 22.25026	12 17 06.21	+06 51 40.8	17.3	o	T08		
125P	2018 06 27.30538	11 19 35.95	+12 25 27.5	18.3	o	T08		125P	2018 07 22.25583	12 17 07.05	+06 51 36.0	16.9	o	T08		
125P	2018 06 27.32281	11 19 38.09	+12 25 14.4	17.5	o	T08		125P	2018 07 22.26816	12 17 08.83	+06 51 24.7	16.9	o	T08		
125P	2018 06 30.25295	11 25 58.41	+11 50 42.7	17.9	o	T05		125P	2018 07 22.27858	12 17 10.41	+06 51 14.9	16.9	o	T08		
125P	2018 06 30.25340	11 25 58.52	+11 50 41.5	17.4	o	T05		125P	2018 08 01.88728	12 43 48.82	+04 06 31.4	16.8	N	9 G40		
125P	2018 06 30.25386	11 25 58.56	+11 50 42.3	17.4	o	T05		125P	2018 08 01.90139	12 43 50.99	+04 06 17.8	17.0	N	9 G40		
125P	2018 06 30.25432	11 25 58.64	+11 50 40.5	17.3	o	T05		125P	2018 08 01.90849	12 43 52.03	+04 06 11.0	17.0	N	9 G40		
125P	2018 06 30.25889	11 25 59.30	+11 50 37.6	17.2	o	T05		125P	2018 08 02.26051	12 44 46.34	+04 00 33.4	16.6	o	T08		
125P	2018 06 30.25935	11 25 59.29	+11 50 37.6	16.9	o	T05		125P	2018 08 02.27035	12 44 47.84	+04 00 23.7	16.7	o	T08		
125P	2018 06 30.27275	11 26 01.02	+11 50 28.0	17.3	o	T05		125P	2018 08 02.27972	12 44 49.27	+04 00 14.9	16.8	o	T08		
125P	2018 06 30.27321	11 26 01.04	+11 50 28.1	17.9	o	T05		125P	2018 08 02.28948	12 44 50.76	+04 00 05.5	16.6	o	T08		
125P	2018 06 30.89167	11 27 22.23	+11 43 00.0	18.0	T	20G40		125P	2018 08 08.25546	13 00 21.48	+02 23 13.7	16.8	c	T05		
125P	2018 06 30.89260	11 27 22.39	+11 42 59.1	17.8	T	20G40		125P	2018 08 08.26547	13 00 23.05	+02 23 03.9	16.9	c	T05		
125P	2018 07 03.31251	11 32 42.95	+11 13 13.4	17.7	o	T05		125P	2018 08 08.27573	13 00 24.68	+02 22 53.6	17.0	c	T05		
125P	2018 07 03.32212	11 32 44.20	+11 13 06.3	17.7	o	T05		125P	2018 08 08.28650	13 00 26.38	+02 22 43.1	16.9	c	T05		
125P	2018 07 03.33154	11 32 45.50	+11 12 59.1	17.3	o	T05		125P	2018 08 09.39777	13 03 22.07	+02 04 30.9	17.1	G	K Q38		
125P	2018 07 04.25412	11 34 49.04	+11 01 24.2	17.5	o	T05		125P	2018 08 09.40171	13 03 22.72	+02 04 27.6	17.3	G	K Q38		
125P	2018 07 04.26219	11 34 50.13	+11 01 18.4	17.4	o	T05		125P	2018 08 09.40566	13 03 23.30	+02 04 23.8	16.9	G	K Q38		
125P	2018 07 04.27308	11 34 51.58	+11 01 09.7	17.5	o	T05		125P	2018 08 14.23695	13 16 15.74	+00 44 06.6	16.9	o	T08		
125P	2018 07 04.28385	11 34 53.02	+11 01 01.5	17.3	o	T05		125P	2018 08 14.24255	13 16 16.67	+00 44 01.2	16.5	o	T08		
125P	2018 07 08.26009	11 43 53.06	+10 09 36.9	17.5	c	T05		125P	2018 08 14.25103	13 16 17.99	+00 43 52.9	16.9	o	T08		
125P	2018 07 08.26814	11 43 54.25	+10 09 30.3	17.5	c	T05		125P	2018 08 14.26129	13 16 19.67	+00 43 42.5	16.5	o	T08		
125P	2018 07 08.27914	11 43 55.66	+10 09 22.5	18.0	c	T05		125P	2018 08 28.86670	13 56 32.36	−03 21 20.3	16.5	N	9 G40		
125P	2018 07 08.28973	11 43 57.11	+10 09 13.9	17.7	c	T05		125P	2018 08 28.87923	13 56 34.49	−03 21 32.7	16.7	N	9 G40		
125P	2018 07 11.28767	11 50 52.42	+09 28 57.5	17.2	c	T05		125P	2018 09 01.22814	14 06 03.14	−04 17 18.9	16.7	o	T05		
125P	2018 07 11.29856	11 50 53.92	+09 28 48.4	17.1	c	T05		125P	2018 09 01.23335	14 06 04.01	−04 17 23.5	16.6	o	T05		
125P	2018 07 11.30942	11 50 55.39	+09 28 39.8	17.8	c	T05		125P	2018 09 01.24089	14 06 05.35	−04 17 31.2	16.1	o	T05		
125P	2018 07 11.32036	11 50 56.93	+09 28 30.3	17.5	c	T05		125P	2018 09 01.25118	14 06 07.05	−04 17 41.4	16.6	o	T05		
125P	2018 07 12.26787	11 53 09.63	+09 15 31.5	17.7	c	T05		125P	2018 09 07.40564	14 23 46.50	−05 58 38.9	17.0	G	Q38		

125P	2018 09 07.40759	14 23 46.83	−05 58 42.2	16.8	G		Q38
125P	2018 09 07.41249	14 23 47.45	−05 58 45.4	16.9	G		Q38
125P	2018 09 09.22656	14 29 03.28	−06 28 09.8	16.1	o		T05
125P	2018 09 09.23393	14 29 04.56	−06 28 17.0	16.1	o		T05
125P	2018 09 09.24398	14 29 06.29	−06 28 26.7	16.0	o		T05
125P	2018 09 18.21736	14 55 28.82	−08 49 00.4	16.0	o		T08
125P	2018 09 18.22172	14 55 29.62	−08 49 04.4	16.0	o		T08
125P	2018 09 18.22833	14 55 30.76	−08 49 10.2	16.5	o		T08
125P	2018 09 19.21262	14 58 26.31	−09 04 02.4	16.2	o		T08
125P	2018 09 19.21594	14 58 26.92	−09 04 06.1	15.8	o		T08
125P	2018 09 19.22182	14 58 28.02	−09 04 11.5	16.0	o		T08
125P	2018 09 19.23003	14 58 29.45	−09 04 19.2	16.0	o		T08

129P/Shoemaker-Levy

129P	2018 07 11.58784	21 27 43.75	−11 28 40.3	16.4	c		T05
129P	2018 07 11.59862	21 27 43.48	−11 28 41.5	16.5	c		T05
129P	2018 07 11.60942	21 27 43.20	−11 28 42.6	16.4	c		T05
129P	2018 07 13.47269	21 26 56.479	−11 32 12.57	16.6	w		F52
129P	2018 07 13.48263	21 26 56.207	−11 32 13.81	16.6	w		F52
129P	2018 07 13.49256	21 26 55.954	−11 32 14.88	16.5	w		F52
129P	2018 07 13.50249	21 26 55.680	−11 32 15.98	16.5	w		F52
129P	2018 07 13.57161	21 26 53.85	−11 32 24.1	15.9	o		T08
129P	2018 07 13.58247	21 26 53.56	−11 32 25.3	16.0	o		T08
129P	2018 07 13.59333	21 26 53.27	−11 32 26.7	15.9	o		T08
129P	2018 07 13.60420	21 26 52.98	−11 32 27.8	15.9	o		T08
129P	2018 07 17.54661	21 25 06.95	−11 40 33.9	15.9	o		T08
129P	2018 07 17.55725	21 25 06.63	−11 40 34.9	16.0	o		T08
129P	2018 07 17.56747	21 25 06.35	−11 40 36.4	16.0	o		T08
129P	2018 07 17.57841	21 25 06.01	−11 40 37.9	15.9	o		T08
129P	2018 07 21.53138	21 23 11.48	−11 49 33.9	16.8	o		T08
129P	2018 07 21.54227	21 23 11.11	−11 49 35.6	16.9	o		T08
129P	2018 07 21.55267	21 23 10.91	−11 49 36.9	16.8	o		T08
129P	2018 07 21.56354	21 23 10.42	−11 49 40.0	16.1	o		T08
129P	2018 07 21.74313	21 23 05.11	−11 50 02.5			1	Q62
129P	2018 07 21.74556	21 23 05.04	−11 50 02.7			1	Q62
129P	2018 07 21.74800	21 23 04.97	−11 50 03.2	15.8	V	1	Q62
129P	2018 07 23.07568	21 22 24.87	−11 53 16.2	17.2	N	K	A77
129P	2018 07 23.08103	21 22 24.66	−11 53 16.8	16.8	V	K	A77
129P	2018 07 23.08532	21 22 24.56	−11 53 17.1	17.0	N	K	A77
129P	2018 07 23.09148	21 22 24.44	−11 53 14.3	16.8	V	K	A77
129P	2018 07 23.09303	21 22 24.34	−11 53 18.5	17.2	N	K	A77
129P	2018 07 23.53460	21 22 10.74	−11 54 23.3	16.1	o		T05
129P	2018 07 23.54564	21 22 10.40	−11 54 24.8	16.2	o		T05
129P	2018 07 23.55779	21 22 10.00	−11 54 26.8	16.2	o		T05
129P	2018 07 23.56861	21 22 09.66	−11 54 28.3	16.1	o		T05
129P	2018 07 23.69885	21 22 05.72	−11 54 48.6	15.9	T		349
129P	2018 07 23.70808	21 22 05.40	−11 54 49.8				349
129P	2018 07 23.94608	21 21 58.01	−11 55 22.0	17.0	N	K	C23
129P	2018 07 23.95185	21 21 58.01	−11 55 24.1	16.7	N	K	C23
129P	2018 07 23.95834	21 21 57.68	−11 55 25.7	16.5	N	K	C23
129P	2018 07 24.00067	21 21 56.49	−11 55 32.3	16.5	N	K	K02
129P	2018 07 24.00305	21 21 56.37	−11 55 32.9	16.5	N	K	K02
129P	2018 07 24.00900	21 21 56.20	−11 55 34.1	16.5	N	K	K02
129P	2018 07 24.02861	21 21 55.54	−11 55 36.3	16.4	N	K	L27
129P	2018 07 24.04004	21 21 55.12	−11 55 37.9	16.5	N	K	L27
129P	2018 07 24.05302	21 21 54.77	−11 55 39.7	16.4	N	K	L27
129P	2018 07 25.05293	21 21 23.61	−11 58 09.6	16.9	V	K	A77
129P	2018 07 25.08371	21 21 22.67	−11 58 13.6	16.8	V	K	A77
129P	2018 07 25.11086	21 21 21.67	−11 58 15.6	16.8	V	K	A77
129P	2018 08 01.89127	21 17 08.67	−12 18 53.2	16.6	N	K	C23
129P	2018 08 01.89704	21 17 08.46	−12 18 55.9	16.2	N	K	C23
129P	2018 08 02.19342	21 16 58.26	−12 19 45.5	17.5	N	9	G40
129P	2018 08 02.20689	21 16 57.87	−12 19 47.5	17.3	N	9	G40
129P	2018 08 03.51828	21 16 13.73	−12 23 27.7	17.9	c		T05
129P	2018 08 03.52614	21 16 13.42	−12 23 28.9	18.0	c		T05
129P	2018 08 03.53491	21 16 13.05	−12 23 30.8	18.1	c		T05
129P	2018 08 03.54273	21 16 12.82	−12 23 32.1	16.9	c		T05
129P	2018 08 03.90700	21 16 00.64	−12 24 33.9	17.6	V	K	A71
129P	2018 08 03.91617	21 16 00.35	−12 24 35.5	17.9	V	K	A71
129P	2018 08 03.92534	21 16 00.01	−12 24 36.7	17.9	V	K	A71
129P	2018 08 04.53955	21 15 39.18	−12 26 21.0			K	367
129P	2018 08 04.54239	21 15 39.09	−12 26 21.4			K	367
129P	2018 08 04.54523	21 15 38.97	−12 26 21.7	16.1	T	K	367
129P	2018 08 04.55637	21 15 38.64	−12 26 24.8	16.3	T		349
129P	2018 08 04.56358	21 15 38.33	−12 26 25.2				349
129P	2018 08 04.67556	21 15 34.45	−12 26 43.9	16.0	R		D29
129P	2018 08 04.68712	21 15 34.16	−12 26 47.6			K	D81
129P	2018 08 04.68864	21 15 34.04	−12 26 47.6			K	D81
129P	2018 08 04.68970	21 15 33.94	−12 26 46.3	15.9	R		D29
129P	2018 08 04.69093	21 15 33.98	−12 26 47.2	16.7	T	K	D81
129P	2018 08 04.70384	21 15 33.45	−12 26 48.8	15.9	R		D29
129P	2018 08 05.39655	21 15 10.048	−12 28 46.45	18.8	w		F51
129P	2018 08 05.40837	21 15 09.630	−12 28 48.55	18.9	w		F51
129P	2018 08 05.42017	21 15 09.222	−12 28 50.52	18.9	w		F51
129P	2018 08 05.43199	21 15 08.807	−12 28 52.54	19.0	w		F51
129P	2018 08 05.61429	21 15 02.55	−12 29 24.3	16.1	T		Q11
129P	2018 08 05.61858	21 15 02.41	−12 29 25.2				Q11
129P	2018 08 05.63142	21 15 01.97	−12 29 27.5				Q11
129P	2018 08 06.43575	21 14 34.550	−12 31 44.78	19.0	w		F51
129P	2018 08 06.44673	21 14 34.160	−12 31 46.70	19.1	w		F51
129P	2018 08 06.45774	21 14 33.774	−12 31 48.60	19.0	w		F51
129P	2018 08 06.46874	21 14 33.387	−12 31 50.49	19.1	w		F51
129P	2018 08 06.50383	21 14 32.11	−12 31 56.5	17.9	o		T08
129P	2018 08 06.51423	21 14 31.69	−12 31 58.7	17.1	o		T08
129P	2018 08 06.52525	21 14 31.32	−12 31 59.8	17.8	o		T08
129P	2018 08 06.53581	21 14 30.93	−12 32 02.4	18.0	o		T08
129P	2018 08 08.51880	21 13 23.10	−12 37 45.2	17.3	c		T05
129P	2018 08 08.52954	21 13 22.73	−12 37 46.8	18.2	c		T05
129P	2018 08 08.54031	21 13 22.36	−12 37 49.4	18.0	c		T05
129P	2018 08 08.56940	21 13 21.52	−12 37 54.9	16.1	T		Q11
129P	2018 08 08.57795	21 13 21.22	−12 37 56.5				Q11
129P	2018 08 08.58223	21 13 21.06	−12 37 57.2				Q11
129P	2018 08 09.60435	21 12 46.13	−12 40 54.3	18.1	G	K	Q38
129P	2018 08 09.60900	21 12 45.85	−12 40 52.4	18.0	G	K	Q38
129P	2018 08 10.49265	21 12 15.50	−12 43 30.6	17.8	o		T08
129P	2018 08 10.49467	21 12 15.34	−12 43 31.0	17.2	o		T08

129P	2018 08 10.50319	21 12 15.07	−12 43 31.7	17.3	o	T08
129P	2018 08 10.50506	21 12 14.92	−12 43 32.4	17.2	o	T08
129P	2018 08 10.51420	21 12 14.62	−12 43 33.9	17.1	o	T08
129P	2018 08 10.51607	21 12 14.55	−12 43 35.3	18.1	o	T08
129P	2018 08 10.52661	21 12 14.21	−12 43 36.4	18.0	o	T08
129P	2018 08 12.49604	21 11 06.86	−12 49 21.8	18.4	c	T05
129P	2018 08 12.50676	21 11 06.50	−12 49 23.8	18.3	c	T05
129P	2018 08 12.51753	21 11 06.05	−12 49 25.9	17.5	c	T05
129P	2018 08 12.52828	21 11 05.65	−12 49 27.7	17.5	c	T05
129P	2018 08 12.91147	21 10 52.71	−12 50 35.2	18.1	V	K A71
129P	2018 08 12.92043	21 10 52.41	−12 50 36.7	18.1	V	K A71
129P	2018 08 12.92938	21 10 52.08	−12 50 38.4	18.2	V	K A71
129P	2018 08 14.47937	21 09 59.28	−12 55 11.5	17.4	o	T08
129P	2018 08 14.48992	21 09 58.96	−12 55 12.9	17.9	o	T08
129P	2018 08 14.50096	21 09 58.61	−12 55 14.6	18.0	o	T08
129P	2018 08 14.51154	21 09 58.19	−12 55 17.8	18.0	o	T08
129P	2018 08 14.94854	21 09 43.50	−12 56 35.1	17.4	N	K77
129P	2018 08 14.95435	21 09 43.28	−12 56 36.3	17.3	N	K77
129P	2018 08 15.96593	21 09 09.09	−12 59 33.9	17.6	N	K C23
129P	2018 08 15.97026	21 09 08.87	−12 59 34.6	17.5	N	K C23
129P	2018 08 15.97603	21 09 08.70	−12 59 35.4	17.6	N	K C23
129P	2018 08 18.58794	21 07 41.36	−13 07 14.7	16.2	T	K Q11
129P	2018 08 18.59508	21 07 41.11	−13 07 16.0			K Q11
129P	2018 08 18.60220	21 07 40.87	−13 07 17.4			K Q11
129P	2018 08 30.22915	21 01 37.89	−13 40 08.4	18.0	N	KW96
129P	2018 08 30.25588	21 01 37.14	−13 40 12.3	18.3	N	KW96
129P	2018 09 02.92379	20 59 55.36	−13 49 57.2	18.8	N	9 G40
129P	2018 09 02.93193	20 59 55.12	−13 49 58.2	18.3	N	9 G40
129P	2018 09 05.82008	20 58 40.22	−13 57 17.9	19.0	V	K A71
129P	2018 09 05.82756	20 58 40.05	−13 57 18.5	19.1	V	K A71
129P	2018 09 05.83497	20 58 39.94	−13 57 19.8	19.4	V	K A71
129P	2018 09 05.86321	20 58 39.13	−13 57 23.6	18.5	R	K 215
129P	2018 09 05.86577	20 58 39.04	−13 57 24.6	18.2	R	K 215
129P	2018 09 14.90117	20 55 20.95	−14 18 06.2	19.6	N	K A77
129P	2018 09 14.91092	20 55 20.70	−14 18 09.0	19.9	N	K A77

130P/McNaught-Hughes

130P	2018 06 20.43018	02 35 06.42	+11 12 30.6	17.5	N	3W88
130P	2018 06 20.43917	02 35 07.42	+11 12 35.0	17.4	N	3W88
130P	2018 06 24.80429	02 42 39.14	+11 49 30.3			1 Q62
130P	2018 06 24.80639	02 42 39.36	+11 49 31.5			1 Q62
130P	2018 06 24.80846	02 42 39.54	+11 49 32.4	16.4	w	1 Q62
130P	2018 08 04.06735	03 42 36.08	+16 01 43.6	18.4	N	K A71
130P	2018 08 04.07851	03 42 36.99	+16 01 47.2	18.4	N	K A71
130P	2018 08 09.14457	03 48 36.81	+16 22 59.5	17.6	N	J22
130P	2018 08 09.14853	03 48 36.86	+16 22 59.6	17.6	N	J22
130P	2018 08 13.05661	03 52 56.89	+16 37 51.4	18.4	N	K77
130P	2018 08 13.05880	03 52 57.22	+16 37 49.7	18.4	N	K77
130P	2018 08 17.21788	03 57 15.30	+16 52 20.5	17.5	N	J22
130P	2018 08 17.22186	03 57 15.51	+16 52 21.5	17.5	N	J22
130P	2018 08 21.00312	04 00 53.29	+17 04 20.7	17.6	N	K 585
130P	2018 08 21.00383	04 00 53.32	+17 04 20.8	17.6	N	K 585
130P	2018 08 21.00454	04 00 53.36	+17 04 20.9	17.5	N	K 585
130P	2018 08 21.00525	04 00 53.43	+17 04 21.0	17.5	N	K 585
130P	2018 08 21.00596	04 00 53.44	+17 04 21.3	17.5	N	K 585
130P	2018 08 21.00667	04 00 53.47	+17 04 21.4	17.5	N	K 585
130P	2018 08 21.00738	04 00 53.52	+17 04 21.5	17.6	N	K 585
130P	2018 08 21.00809	04 00 53.56	+17 04 21.6	17.6	N	K 585
130P	2018 08 21.00879	04 00 53.59	+17 04 21.7	17.6	N	K 585
130P	2018 08 21.00950	04 00 53.63	+17 04 21.9	17.7	N	K 585
130P	2018 08 21.01021	04 00 53.67	+17 04 22.1	17.8	N	K 585
130P	2018 08 21.01092	04 00 53.71	+17 04 22.4	17.8	N	K 585
130P	2018 08 21.01163	04 00 53.74	+17 04 22.5	17.7	N	K 585
130P	2018 08 21.01234	04 00 53.79	+17 04 22.6	17.7	N	K 585
130P	2018 08 21.01305	04 00 53.82	+17 04 22.7	17.8	N	K 585
130P	2018 08 21.12404	04 00 59.89	+17 04 42.5	17.6	V	K 215
130P	2018 08 21.12533	04 00 59.95	+17 04 42.8	17.5	V	K 215
130P	2018 08 21.12661	04 01 00.02	+17 04 43.2	17.5	V	K 215

131P/Mueller

131P	2018 07 11.57440	23 44 35.836	+06 32 52.53	21.7	w	F51
131P	2018 07 11.58448	23 44 36.120	+06 32 55.40	21.7	w	F51
131P	2018 07 11.59464	23 44 36.423	+06 32 58.23	21.7	w	F51
131P	2018 07 11.60484	23 44 36.719	+06 33 00.98	21.6	w	F51
131P	2018 07 19.57354	23 48 12.892	+07 06 50.24	21.4	w	F52
131P	2018 07 19.58480	23 48 13.135	+07 06 52.89	21.4	w	F52
131P	2018 07 19.59541	23 48 13.357	+07 06 55.32	21.2	w	F52
131P	2018 08 08.68464	23 51 48.53	+07 50 34.6	19.5	T	K Q11
131P	2018 08 08.69069	23 51 48.48	+07 50 35.5			K Q11
131P	2018 08 16.99335	23 50 48.17	+07 47 48.7	20.0	T	K 461
131P	2018 08 17.00040	23 50 48.08	+07 47 48.2	19.8	T	K 461
131P	2018 08 17.00745	23 50 47.97	+07 47 47.7	19.9	T	K 461
131P	2018 08 17.96837	23 50 35.45	+07 46 36.1	19.9	T	K 461
131P	2018 08 17.98106	23 50 35.26	+07 46 35.0	19.9	T	K 461
131P	2018 08 21.46811	23 49 40.291	+07 40 44.90	20.2	i	F51
131P	2018 08 21.48164	23 49 40.015	+07 40 43.23	20.2	i	F51
131P	2018 08 21.49516	23 49 39.756	+07 40 41.76	19.9	i	F51
131P	2018 08 21.50869	23 49 39.485	+07 40 40.34	20.1	i	F51
131P	2018 09 05.92974	23 43 01.43	+06 46 07.5	19.8	N	K K77
131P	2018 09 05.93616	23 43 01.20	+06 46 05.2	20.0	N	K K77
131P	2018 09 09.03933	23 41 17.02	+06 29 53.8	18.2	N	K 160
131P	2018 09 09.04168	23 41 16.83	+06 29 52.9	18.4	N	K 160
131P	2018 09 09.04390	23 41 16.69	+06 29 52.3	18.2	N	K 160
131P	2018 09 09.29271	23 41 08.28	+06 28 29.9	18.8	G	703
131P	2018 09 09.29797	23 41 08.04	+06 28 28.1	18.6	G	703
131P	2018 09 09.30322	23 41 07.85	+06 28 26.3	18.6	G	703
131P	2018 09 09.30848	23 41 07.68	+06 28 25.2	18.7	G	703
131P	2018 09 09.51277	23 41 00.47	+06 27 19.4	19.1	o	T05
131P	2018 09 09.52348	23 41 00.05	+06 27 15.7	19.1	o	T05
131P	2018 09 09.52440	23 41 00.04	+06 27 15.1	19.3	o	T05
131P	2018 09 09.53372	23 40 59.64	+06 27 11.7	19.3	o	T05
131P	2018 09 09.55618	23 40 58.83	+06 27 05.4	19.0	o	T05
131P	2018 09 10.51678	23 40 25.69	+06 21 44.3	19.0	N	K Q68
131P	2018 09 10.62712	23 40 21.57	+06 21 06.8	19.1	N	K Q68
131P	2018 09 11.92666	23 39 35.61	+06 13 25.4	18.6	N	K I81
131P	2018 09 11.92884	23 39 35.54	+06 13 24.5	18.4	N	K I81

131P	2018 09 11.93101	23 39 35.47	+06 13 24.0	18.1	N	K	I81
131P	2018 09 12.26209	23 39 23.60	+06 11 27.7	18.7	G		G96
131P	2018 09 12.26728	23 39 23.41	+06 11 25.5	18.7	G		G96
131P	2018 09 12.27246	23 39 23.21	+06 11 24.1	18.9	G		G96
131P	2018 09 12.27766	23 39 23.00	+06 11 22.2	18.8	G		G96
131P	2018 09 12.52129	23 39 14.35	+06 10 03.0	19.6	N	K	Q68
131P	2018 09 12.55247	23 39 13.16	+06 09 50.1	19.4	N	K	Q68
131P	2018 09 14.51231	23 38 02.13	+05 57 50.3	18.6	N		Q68
131P	2018 09 14.55006	23 38 00.51	+05 57 37.6	18.4	N		Q68
131P	2018 09 14.97777	23 37 45.00	+05 54 45.1	18.4	N	K	I81
131P	2018 09 14.97921	23 37 44.96	+05 54 45.1	18.3	N	K	I81
131P	2018 09 14.98138	23 37 44.88	+05 54 45.0	18.1	N	K	I81
131P	2018 09 19.47377	23 34 59.15	+05 25 16.5	18.8	o		T08
131P	2018 09 19.48387	23 34 58.74	+05 25 13.5	18.7	o		T08
131P	2018 09 19.49385	23 34 58.37	+05 25 09.2	18.8	o		T08
131P	2018 09 19.50391	23 34 58.10	+05 25 05.2	18.7	o		T08

137P/Shoemaker-Levy

137P	2018 06 13.65764	21 43 29.24	−07 12 00.2	18.1	T	K	Q11
137P	2018 06 13.66370	21 43 29.44	−07 11 57.9			K	Q11
137P	2018 06 13.66976	21 43 29.64	−07 11 55.8			K	Q11
137P	2018 06 18.38264	21 45 55.82	−06 44 37.6	18.4	G		G96
137P	2018 06 18.38781	21 45 55.94	−06 44 35.8	18.5	G		G96
137P	2018 06 18.39299	21 45 56.09	−06 44 34.1	18.5	G		G96
137P	2018 06 18.39817	21 45 56.22	−06 44 32.5	18.4	G		G96
137P	2018 06 21.00132	21 47 06.14	−06 30 09.2	18.4	N		K77
137P	2018 06 21.00353	21 47 06.25	−06 30 10.2	18.3	N		K77
137P	2018 06 23.55034	21 48 06.922	−06 16 37.77	18.6	w		F51
137P	2018 06 23.56300	21 48 07.176	−06 16 33.84	18.7	w		F51
137P	2018 06 23.57564	21 48 07.436	−06 16 29.89	18.6	w		F51
137P	2018 06 23.58829	21 48 07.678	−06 16 26.87	20.3	w		F51
137P	2018 06 25.55798	21 48 49.28	−06 06 21.6	18.6	o		T05
137P	2018 06 25.56977	21 48 49.47	−06 06 18.6	18.3	o		T05
137P	2018 06 25.57969	21 48 49.68	−06 06 15.3	18.5	o		T05
137P	2018 06 25.58781	21 48 49.80	−06 06 13.4	18.4	o		T05
137P	2018 07 07.01912	21 51 13.14	−05 15 40.1	17.6	N		Z55
137P	2018 07 07.02088	21 51 13.19	−05 15 40.2	17.8	N		Z55
137P	2018 07 07.02260	21 51 13.20	−05 15 39.3	17.7	N		Z55
137P	2018 07 07.02432	21 51 13.21	−05 15 38.9	17.5	N		Z55
137P	2018 07 09.07847	21 51 20.25	−05 08 11.6	18.0		K	215
137P	2018 07 09.07976	21 51 20.25	−05 08 11.3	18.1		K	215
137P	2018 07 09.08104	21 51 20.24	−05 08 10.9	18.0		K	215
137P	2018 07 13.12027	21 51 17.40	−04 55 04.9	18.0	V		J43
137P	2018 07 13.12894	21 51 17.36	−04 55 03.3	18.1	V		J43
137P	2018 07 13.13763	21 51 17.30	−04 55 01.6	18.3	V		J43
137P	2018 07 13.14628	21 51 17.27	−04 55 00.0	18.1	V		J43
137P	2018 07 13.58861	21 51 15.48	−04 53 41.3	18.0	o		T08
137P	2018 07 13.59950	21 51 15.41	−04 53 39.9	17.9	o		T08
137P	2018 07 13.61041	21 51 15.34	−04 53 37.7	18.0	o		T08
137P	2018 07 13.62130	21 51 15.29	−04 53 35.6	18.0	o		T08
137P	2018 07 13.77526	21 51 14.79	−04 53 10.5	18.3	R		D29
137P	2018 07 13.78940	21 51 14.70	−04 53 08.1	18.3	R		D29
137P	2018 07 13.80354	21 51 14.61	−04 53 05.6	18.3	R		D29
137P	2018 07 14.01355	21 51 13.89	−04 52 30.0	17.9	N		212
137P	2018 07 14.01437	21 51 13.99	−04 52 29.5	17.8	N		J22
137P	2018 07 14.02028	21 51 13.96	−04 52 27.9	17.8	N		J22
137P	2018 07 14.02223	21 51 13.93	−04 52 27.1	17.8	N		J22
137P	2018 07 14.02648	21 51 13.81	−04 52 27.8	17.8	N		212
137P	2018 07 14.05228	21 51 13.62	−04 52 22.5	17.9	N		212
137P	2018 07 15.67763	21 51 04.00	−04 47 59.3	17.3	T		Q11
137P	2018 07 15.68618	21 51 03.93	−04 47 58.0				Q11
137P	2018 07 15.69045	21 51 03.89	−04 47 57.2				Q11
137P	2018 07 15.92383	21 51 02.37	−04 47 22.2			K	C43
137P	2018 07 15.94013	21 51 02.21	−04 47 19.9			K	C43
137P	2018 07 15.98568	21 51 01.88	−04 47 12.1	17.8	N		B74
137P	2018 07 16.00192	21 51 01.73	−04 47 09.7	17.8	N		B74
137P	2018 07 16.00539	21 51 01.74	−04 47 09.4	17.9	N		J01
137P	2018 07 16.01946	21 51 01.59	−04 47 07.4	17.8	N		B74
137P	2018 07 16.02705	21 51 01.53	−04 47 06.2	17.8	N		J01
137P	2018 07 16.03427	21 51 01.44	−04 47 04.2	17.9	N		J01
137P	2018 07 16.96850	21 50 53.88	−04 44 46.9	17.8	N		K77
137P	2018 07 16.97432	21 50 53.77	−04 44 45.8	18.0	N		K77
137P	2018 07 19.00181	21 50 33.21	−04 40 11.9	17.5	N	K	160
137P	2018 07 19.00405	21 50 33.18	−04 40 11.5	17.5	N	K	160
137P	2018 07 19.00630	21 50 33.13	−04 40 11.1	17.6	N	K	160
137P	2018 07 19.98094	21 50 21.34	−04 38 12.8	17.5	N	K	160
137P	2018 07 19.98348	21 50 21.29	−04 38 12.7	17.6	N	K	160
137P	2018 07 19.98602	21 50 21.25	−04 38 12.5	17.6	N	K	160
137P	2018 07 19.98695	21 50 21.29	−04 38 13.2	17.4	N	K	C23
137P	2018 07 19.99055	21 50 21.18	−04 38 12.4	17.1	N	K	C23
137P	2018 07 19.99416	21 50 21.17	−04 38 11.8	17.3	N	K	C23
137P	2018 07 21.56014	21 49 59.57	−04 35 19.2	17.2	T		D95
137P	2018 07 21.57417	21 49 59.32	−04 35 18.0				D95
137P	2018 07 23.07411	21 49 35.35	−04 32 53.5	17.9	V	K	A77
137P	2018 07 23.08018	21 49 35.21	−04 32 53.5	17.6	V	K	A77
137P	2018 07 23.08625	21 49 34.99	−04 32 54.6	17.2	V	K	A77
137P	2018 07 23.99895	21 49 19.36	−04 31 39.4	17.0	N	K	160
137P	2018 07 24.00144	21 49 19.30	−04 31 38.9	16.9	N	K	160
137P	2018 07 24.00393	21 49 19.25	−04 31 38.3	17.4	N	K	160
137P	2018 07 25.51202	21 48 50.62	−04 29 47.8	17.5	o		T08
137P	2018 07 25.52217	21 48 50.38	−04 29 47.0	17.3	o		T08
137P	2018 07 25.53231	21 48 50.17	−04 29 46.0	17.4	o		T08
137P	2018 07 25.54312	21 48 49.90	−04 29 45.5	17.4	o		T08
137P	2018 08 01.00893	21 46 16.88	−04 26 14.9	17.0	N	K	160
137P	2018 08 01.01131	21 46 16.81	−04 26 14.8	17.0	N	K	160
137P	2018 08 01.01369	21 46 16.73	−04 26 14.7	17.0	N	K	160
137P	2018 08 01.96932	21 45 50.27	−04 26 18.4	16.7	N	K	C23
137P	2018 08 01.97221	21 45 50.18	−04 26 18.6	16.5	N	K	C23
137P	2018 08 01.97510	21 45 50.10	−04 26 18.5	16.6	N	K	C23
137P	2018 08 01.97798	21 45 50.04	−04 26 18.8	16.5	N	K	C23
137P	2018 08 03.01575	21 45 20.03	−04 26 32.1	17.1	R		B96
137P	2018 08 03.01902	21 45 19.94	−04 26 32.2	17.0	R		B96
137P	2018 08 03.02392	21 45 19.80	−04 26 32.3	16.8	R		B96
137P	2018 08 03.50967	21 45 05.67	−04 26 41.6				D95
137P	2018 08 03.51822	21 45 05.44	−04 26 42.0				D95
137P	2018 08 03.52534	21 45 05.21	−04 26 42.2	16.6	T		D95

137P	2018 08 03.95862	21 44 51.99	−04 26 53.5	17.5	V	K	A71
137P	2018 08 03.95905	21 44 51.98	−04 26 53.9	17.5	V	K	A71
137P	2018 08 03.96302	21 44 51.85	−04 26 53.7	17.5	V	K	A71
137P	2018 08 03.96743	21 44 51.71	−04 26 53.7	17.5	V	K	A71
137P	2018 08 03.96817	21 44 51.68	−04 26 54.1	17.5	V	K	A71
137P	2018 08 03.97186	21 44 51.56	−04 26 54.0	17.5	V	K	A71
137P	2018 08 03.97628	21 44 51.43	−04 26 54.1	17.5	V	K	A71
137P	2018 08 03.97701	21 44 51.40	−04 26 54.4	17.5	V	K	A71
137P	2018 08 03.99221	21 44 50.93	−04 26 53.8	17.1	N	K	160
137P	2018 08 03.99432	21 44 50.87	−04 26 53.8	17.1	N	K	160
137P	2018 08 03.99628	21 44 50.83	−04 26 54.0	17.0	N	K	160
137P	2018 08 03.99692	21 44 51.00	−04 26 52.8	17.1	N		J22
137P	2018 08 04.00084	21 44 50.87	−04 26 52.9	17.1	N		J22
137P	2018 08 04.00478	21 44 50.74	−04 26 53.1	17.1	N		J22
137P	2018 08 04.02352	21 44 49.96	−04 26 54.5	16.4	R		B96
137P	2018 08 04.02678	21 44 49.87	−04 26 55.6	16.2	R		B96
137P	2018 08 04.03253	21 44 49.67	−04 26 56.8	17.5	R		B96
137P	2018 08 04.58979	21 44 32.79	−04 27 11.8	16.9	T		349
137P	2018 08 04.60105	21 44 32.41	−04 27 12.1				349
137P	2018 08 04.68528	21 44 29.75	−04 27 14.7	17.4	R		D29
137P	2018 08 04.69942	21 44 29.28	−04 27 15.3	17.4	R		D29
137P	2018 08 04.71356	21 44 28.81	−04 27 15.7	17.5	R		D29
137P	2018 08 05.96437	21 43 49.51	−04 28 08.0	16.8	N	K	160
137P	2018 08 05.96701	21 43 49.42	−04 28 08.1	16.9	N	K	160
137P	2018 08 05.96977	21 43 49.32	−04 28 08.2	16.9	N	K	160
137P	2018 08 06.02668	21 43 47.43	−04 28 11.0	17.4	R		B96
137P	2018 08 06.02832	21 43 47.38	−04 28 11.4	17.2	R		B96
137P	2018 08 06.52876	21 43 31.04	−04 28 34.0	17.0	o		T08
137P	2018 08 06.53935	21 43 30.67	−04 28 34.3	17.0	o		T08
137P	2018 08 06.55037	21 43 30.29	−04 28 35.0	16.9	o		T08
137P	2018 08 06.56082	21 43 29.93	−04 28 35.3	17.2	o		T08
137P	2018 08 06.90331	21 43 19.14	−04 28 57.0	17.5	N		K77
137P	2018 08 06.90910	21 43 18.94	−04 28 56.9	17.6	N		K77
137P	2018 08 06.94395	21 43 17.75	−04 28 58.6	17.0	N	K	160
137P	2018 08 06.94650	21 43 17.67	−04 28 58.8	17.0	N	K	160
137P	2018 08 06.94907	21 43 17.58	−04 28 58.9	17.0	N	K	160
137P	2018 08 06.97683	21 43 16.63	−04 29 01.3	17.0	R		B96
137P	2018 08 06.98009	21 43 16.52	−04 29 01.4	16.9	R		B96
137P	2018 08 06.98500	21 43 16.35	−04 29 01.7	16.8	R		B96
137P	2018 08 08.53607	21 42 24.14	−04 30 38.4	17.4	c		T05
137P	2018 08 08.54685	21 42 23.75	−04 30 39.3	17.5	c		T05
137P	2018 08 08.55763	21 42 23.36	−04 30 40.0	17.3	c		T05
137P	2018 08 08.56842	21 42 22.95	−04 30 40.7	17.4	c		T05
137P	2018 08 08.58494	21 42 22.81	−04 30 43.4	16.4	T		Q11
137P	2018 08 08.59781	21 42 22.35	−04 30 44.2				Q11
137P	2018 08 08.60208	21 42 22.19	−04 30 44.6				Q11
137P	2018 08 08.92999	21 42 11.08	−04 31 08.8	16.5	N		Z55
137P	2018 08 08.94273	21 42 10.67	−04 31 10.0	16.6	N		Z55
137P	2018 08 08.94428	21 42 10.59	−04 31 09.8	16.8	N		Z55
137P	2018 08 08.94497	21 42 10.58	−04 31 10.1	16.7	N		Z55
137P	2018 08 08.94561	21 42 10.57	−04 31 10.5	16.8	N		Z55
137P	2018 08 10.52335	21 41 15.11	−04 33 19.0	16.9	o		T08
137P	2018 08 10.53381	21 41 14.72	−04 33 20.0	16.9	o		T08
137P	2018 08 10.54485	21 41 14.28	−04 33 20.8	16.9	o		T08
137P	2018 08 10.55540	21 41 13.89	−04 33 21.8	17.0	o		T08
137P	2018 08 10.93443	21 41 00.92	−04 33 58.9	16.9	N		J01
137P	2018 08 10.95603	21 41 00.10	−04 34 01.2	16.8	N		J01
137P	2018 08 10.97044	21 40 59.56	−04 34 02.6	16.9	N		J01
137P	2018 08 11.12870	21 40 54.10	−04 34 17.1	16.9	N		750
137P	2018 08 11.13131	21 40 53.94	−04 34 17.9	17.1	N		750
137P	2018 08 11.45229	21 40 42.180	−04 34 46.74	17.3	w		F51
137P	2018 08 11.46339	21 40 41.750	−04 34 47.85	17.4	w		F51
137P	2018 08 11.47447	21 40 41.322	−04 34 48.93	17.4	w		F51
137P	2018 08 11.48555	21 40 40.893	−04 34 50.01	17.3	w		F51
137P	2018 08 11.53479	21 40 39.43	−04 34 56.9	16.4	T		D95
137P	2018 08 11.53765	21 40 39.32	−04 34 57.2				D95
137P	2018 08 11.54480	21 40 39.04	−04 34 57.9				D95
137P	2018 08 11.98757	21 40 23.08	−04 35 41.5	17.0	T	9	G40
137P	2018 08 11.99253	21 40 22.88	−04 35 42.0	16.9	T	9	G40
137P	2018 08 12.00193	21 40 22.52	−04 35 42.9	17.0	T	9	G40
137P	2018 08 12.88720	21 39 50.24	−04 37 19.3	17.2	V		A71
137P	2018 08 12.88899	21 39 50.17	−04 37 19.5	17.1	V		A71
137P	2018 08 12.89079	21 39 50.10	−04 37 19.7	17.2	V		A71
137P	2018 08 12.89258	21 39 50.03	−04 37 19.9	17.2	V		A71
137P	2018 08 12.95970	21 39 47.53	−04 37 27.3	16.6	N	K	160
137P	2018 08 12.96252	21 39 47.42	−04 37 27.6	16.7	N	K	160
137P	2018 08 12.96532	21 39 47.31	−04 37 28.0	16.7	N	K	160
137P	2018 08 14.49860	21 38 50.42	−04 40 27.2	16.7	o		T08
137P	2018 08 14.50910	21 38 50.00	−04 40 28.6	16.7	o		T08
137P	2018 08 14.52015	21 38 49.56	−04 40 29.9	16.8	o		T08
137P	2018 08 14.53074	21 38 49.15	−04 40 30.7	17.0	o		T08
137P	2018 08 14.92101	21 38 35.03	−04 41 22.8	16.7	N		J01
137P	2018 08 14.93542	21 38 34.46	−04 41 24.5	16.7	N		J01
137P	2018 08 14.93554	21 38 34.41	−04 41 25.4	17.1	N		K77
137P	2018 08 14.94135	21 38 34.20	−04 41 26.1	17.2	N		K77
137P	2018 08 14.94980	21 38 33.91	−04 41 26.4	16.6	N		J01
137P	2018 08 15.93957	21 37 56.70	−04 43 38.2	16.5	N		C23
137P	2018 08 15.94390	21 37 56.53	−04 43 38.8	16.5	N		C23
137P	2018 08 15.94823	21 37 56.34	−04 43 39.6	16.5	N		C23
137P	2018 08 15.95123	21 37 56.20	−04 43 39.2	16.6	N	K	160
137P	2018 08 15.95400	21 37 56.09	−04 43 39.5	16.6	N	K	160
137P	2018 08 15.95678	21 37 55.98	−04 43 39.9	16.6	N	K	160
137P	2018 08 16.91127	21 37 20.00	−04 45 54.6	16.7	G		C47
137P	2018 08 16.91533	21 37 19.82	−04 45 55.4	17.0	G		C47
137P	2018 08 16.91976	21 37 19.65	−04 45 55.9	16.7	G		C47
137P	2018 08 16.92172	21 37 19.71	−04 45 55.1	16.3	N		212
137P	2018 08 16.92419	21 37 19.47	−04 45 56.4	16.7	G		C47
137P	2018 08 16.92605	21 37 19.53	−04 45 55.3	16.4	N		212
137P	2018 08 16.92862	21 37 19.30	−04 45 57.1	16.8	G		C47
137P	2018 08 16.93036	21 37 19.37	−04 45 56.1	16.6	N		212
137P	2018 08 16.93341	21 37 19.10	−04 45 57.7	16.8	G		C47
137P	2018 08 17.00526	21 37 16.27	−04 46 07.4	17.1	N	K	160
137P	2018 08 17.00809	21 37 16.16	−04 46 07.9	17.1	N	K	160
137P	2018 08 17.01092	21 37 16.04	−04 46 08.4	16.5	N	K	160
137P	2018 08 17.01374	21 37 16.13	−04 46 08.3	16.8	N		J22
137P	2018 08 17.02177	21 37 15.81	−04 46 08.9	16.8	N		J22

137P	2018 08 17.97788	21 36 39.40	−04 48 32.0	16.7	N	K 160			137P	2018 08 22.97201	21 33 29.63	−05 02 39.0	16.7	N	585		
137P	2018 08 17.98011	21 36 39.31	−04 48 32.4	16.8	N	K 160			137P	2018 08 22.97275	21 33 29.62	−05 02 39.3	17.2	N	585		
137P	2018 08 17.98249	21 36 39.21	−04 48 32.8	16.8	N	K 160			137P	2018 08 23.39445	21 33 14.07	−05 03 47.9	16.5	N	K E94		
137P	2018 08 18.02610	21 36 37.50	−04 48 39.8	16.7	R	B96			137P	2018 08 23.39928	21 33 13.88	−05 03 49.0	16.5	N	K E94		
137P	2018 08 18.02936	21 36 37.38	−04 48 40.6	16.7	R	B96			137P	2018 08 23.45333	21 33 11.76	−05 03 59.1	16.5	N	K E94		
137P	2018 08 18.03427	21 36 37.19	−04 48 41.3	16.7	R	B96			137P	2018 08 23.45810	21 33 11.54	−05 04 00.5	16.5	N	K E94		
137P	2018 08 18.41110	21 36 22.995	−04 49 36.50	17.2	w	F51			137P	2018 08 29.73427	21 29 24.54	−05 25 31.3	16.4	N	C97		
137P	2018 08 18.42374	21 36 22.479	−04 49 38.46	17.1	w	F51			137P	2018 08 29.73537	21 29 24.44	−05 25 31.5	16.9	N	C97		
137P	2018 08 18.43635	21 36 21.962	−04 49 40.44	18.9	w	F51			137P	2018 08 30.46391	21 28 59.10	−05 28 11.4	17.0	o	T08		
137P	2018 08 18.44892	21 36 21.448	−04 49 42.38	17.2	w	F51			137P	2018 08 30.47400	21 28 58.74	−05 28 13.5	16.8	o	T08		
137P	2018 08 18.46442	21 36 20.82	−04 49 44.8	16.8	o	T08			137P	2018 08 30.48399	21 28 58.39	−05 28 15.7	16.8	o	T08		
137P	2018 08 18.47516	21 36 20.37	−04 49 46.5	16.8	o	T08			137P	2018 08 30.49400	21 28 58.01	−05 28 18.0	16.8	o	T08		
137P	2018 08 18.48523	21 36 19.96	−04 49 48.0	16.8	o	T08			137P	2018 08 30.94422	21 28 43.21	−05 30 00.5	16.8	N	J38		
137P	2018 08 18.49581	21 36 19.52	−04 49 49.5	16.8	o	T08			137P	2018 08 30.94706	21 28 43.10	−05 30 01.1	16.7	N	J38		
137P	2018 08 18.94588	21 36 02.71	−04 51 02.0	16.5	N	212			137P	2018 08 30.94990	21 28 42.99	−05 30 01.6	16.7	N	J38		
137P	2018 08 18.95019	21 36 02.56	−04 51 02.8	16.5	N	212			137P	2018 08 31.69005	21 28 18.49	−05 32 46.5	17.0	N	C97		
137P	2018 08 18.95451	21 36 02.39	−04 51 03.8	16.5	N	212			137P	2018 08 31.69466	21 28 18.51	−05 32 45.2	17.2	N	C97		
137P	2018 08 18.98875	21 36 00.89	−04 51 09.8	16.6	N	K 160			137P	2018 08 31.87760	21 28 12.30	−05 33 29.9	16.6	R	B96		
137P	2018 08 18.99152	21 36 00.79	−04 51 10.2	16.7	N	K 160			137P	2018 08 31.88078	21 28 12.18	−05 33 30.8	16.5	N	C23		
137P	2018 08 18.99430	21 36 00.69	−04 51 10.6	16.6	N	K 160			137P	2018 08 31.88251	21 28 12.16	−05 33 31.0	16.6	R	B96		
137P	2018 08 20.48068	21 35 03.96	−04 55 13.3	16.5	o	T05			137P	2018 08 31.88578	21 28 12.04	−05 33 31.4	16.6	R	B96		
137P	2018 08 20.49142	21 35 03.55	−04 55 15.0	16.6	o	T05			137P	2018 08 31.88655	21 28 11.99	−05 33 31.9	16.3	N	C23		
137P	2018 08 20.50175	21 35 03.11	−04 55 16.8	16.8	o	T05			137P	2018 08 31.89088	21 28 11.86	−05 33 32.6	16.3	N	C23		
137P	2018 08 20.51271	21 35 02.67	−04 55 18.8	16.5	o	T05			137P	2018 08 31.93556	21 28 10.49	−05 33 40.9	16.7	N	J22		
137P	2018 08 20.95736	21 34 46.03	−04 56 37.0	16.6	N	K 160			137P	2018 08 31.93969	21 28 10.33	−05 33 41.9	16.7	N	J22		
137P	2018 08 20.95996	21 34 45.93	−04 56 37.5	16.7	N	K 160			137P	2018 08 31.94361	21 28 10.19	−05 33 42.7	16.7	N	J22		
137P	2018 08 20.96253	21 34 45.81	−04 56 38.1	16.6	N	K 160			137P	2018 08 31.97231	21 28 09.08	−05 33 50.7	16.7	N	J38		
137P	2018 08 22.88023	21 33 33.32	−05 02 22.2	16.9	G	K C47			137P	2018 08 31.97938	21 28 08.85	−05 33 52.1	16.6	N	J38		
137P	2018 08 22.88392	21 33 33.17	−05 02 23.0	16.8	G	K C47			137P	2018 08 31.98292	21 28 08.72	−05 33 52.8	16.6	N	J38		
137P	2018 08 22.88761	21 33 33.04	−05 02 23.9	16.9	G	K C47			137P	2018 09 01.86833	21 27 40.27	−05 37 14.8	16.5	R	B96		
137P	2018 08 22.89130	21 33 32.91	−05 02 24.4	16.8	G	K C47			137P	2018 09 01.87323	21 27 40.12	−05 37 15.6	16.6	R	B96		
137P	2018 08 22.89647	21 33 32.69	−05 02 25.3	16.7	G	K C47			137P	2018 09 01.87650	21 27 40.01	−05 37 16.2	16.6	R	B96		
137P	2018 08 22.95708	21 33 30.20	−05 02 36.4	16.6	N	585			137P	2018 09 01.94589	21 27 37.74	−05 37 31.7	16.8	N	J01		
137P	2018 08 22.95779	21 33 30.19	−05 02 36.2	16.5	N	585			137P	2018 09 01.96031	21 27 37.24	−05 37 34.6	16.7	N	J01		
137P	2018 08 22.95850	21 33 30.16	−05 02 36.4	16.7	N	585			137P	2018 09 01.96751	21 27 36.97	−05 37 36.5	16.6	N	J01		
137P	2018 08 22.95921	21 33 30.13	−05 02 36.5	16.8	N	585			137P	2018 09 02.86638	21 27 08.93	−05 41 02.9	16.7	R	B96		
137P	2018 08 22.95992	21 33 30.11	−05 02 36.8	16.6	N	585			137P	2018 09 02.87128	21 27 08.77	−05 41 04.0	16.7	R	B96		
137P	2018 08 22.96062	21 33 30.07	−05 02 36.9	16.8	N	585			137P	2018 09 02.87455	21 27 08.67	−05 41 04.9	16.7	R	B96		
137P	2018 08 22.96133	21 33 30.05	−05 02 36.9	16.9	N	585			137P	2018 09 03.45290	21 26 50.60	−05 43 15.6	16.8	o	T08		
137P	2018 08 22.96204	21 33 30.01	−05 02 37.3	16.6	N	585			137P	2018 09 03.46353	21 26 50.25	−05 43 18.0	16.9	o	T08		
137P	2018 08 22.96275	21 33 29.97	−05 02 37.3	16.5	N	585			137P	2018 09 03.47365	21 26 49.91	−05 43 20.4	16.9	o	T08		
137P	2018 08 22.96348	21 33 29.96	−05 02 37.3	17.0	N	585			137P	2018 09 03.48436	21 26 49.57	−05 43 23.1	16.9	o	T08		
137P	2018 08 22.96419	21 33 29.95	−05 02 37.2	16.7	N	585			137P	2018 09 03.83332	21 26 39.59	−05 44 46.1	16.7	R	K A77		
137P	2018 08 22.96490	21 33 29.90	−05 02 37.6	16.8	N	585			137P	2018 09 03.85046	21 26 39.01	−05 44 50.0	16.6	R	K A77		
137P	2018 08 22.96561	21 33 29.88	−05 02 37.6	16.9	N	585			137P	2018 09 03.86333	21 26 38.66	−05 44 53.2	16.7	R	K A77		
137P	2018 08 22.96632	21 33 29.85	−05 02 37.9	16.6	N	585			137P	2018 09 04.16661	21 26 29.62	−05 46 02.9	16.9	G	703		
137P	2018 08 22.96705	21 33 29.81	−05 02 38.0	16.8	N	585			137P	2018 09 04.17207	21 26 29.45	−05 46 03.9	16.9	G	703		
137P	2018 08 22.96776	21 33 29.79	−05 02 38.1	16.7	N	585			137P	2018 09 04.17753	21 26 29.12	−05 46 05.4	16.5	G	703		
137P	2018 08 22.96846	21 33 29.77	−05 02 38.2	16.8	N	585			137P	2018 09 04.18299	21 26 28.95	−05 46 06.2	16.4	G	703		
137P	2018 08 22.96918	21 33 29.72	−05 02 38.2	17.0	N	585			137P	2018 09 06.54885	21 25 22.24	−05 55 12.8	16.9	N	323		
137P	2018 08 22.96989	21 33 29.72	−05 02 38.4	16.7	N	585			137P	2018 09 06.60103	21 25 20.72	−05 55 25.8	17.0	N	323		
137P	2018 08 22.97059	21 33 29.67	−05 02 38.6	17.1	N	585			137P	2018 09 06.90118	21 25 12.79	−05 56 44.6	16.8	N	J01		
137P	2018 08 22.97130	21 33 29.65	−05 02 38.7	16.7	N	585			137P	2018 09 06.92295	21 25 12.16	−05 56 50.1	16.9	N	J01		

137P	2018 09 06.93740	21 25 11.75	−05 56 53.5	17.0	N	J01
137P	2018 09 07.18094	21 25 05.51	−05 57 49.1	16.9	G	703
137P	2018 09 07.18269	21 25 05.44	−05 57 50.3	17.1	G	G96
137P	2018 09 07.18669	21 25 05.34	−05 57 50.6	16.8	G	703
137P	2018 09 07.18832	21 25 05.28	−05 57 51.6	17.1	G	G96
137P	2018 09 07.19243	21 25 05.16	−05 57 52.1	16.9	G	703
137P	2018 09 07.19396	21 25 05.12	−05 57 52.9	17.1	G	G96
137P	2018 09 07.19817	21 25 04.99	−05 57 53.7	17.1	G	703
137P	2018 09 07.19957	21 25 04.95	−05 57 54.3	17.1	G	G96
137P	2018 09 07.52740	21 24 56.37	−05 59 03.3	16.8	G	Q38
137P	2018 09 07.53031	21 24 56.33	−05 59 04.2	16.8	G	Q38
137P	2018 09 07.53370	21 24 56.21	−05 59 05.0	16.8	G	Q38
137P	2018 09 07.54247	21 24 55.75	−05 58 36.3	17.3	N	323
137P	2018 09 07.54830	21 24 56.00	−05 59 08.3	17.0	N	323
137P	2018 09 07.92774	21 24 46.38	−06 00 45.4	16.9	N	J22
137P	2018 09 07.93186	21 24 46.22	−06 00 46.6	16.9	N	J22
137P	2018 09 07.93580	21 24 46.11	−06 00 47.6	16.9	N	J22
137P	2018 09 08.70267	21 24 27.42	−06 03 50.3	17.3	N	C97
137P	2018 09 08.70418	21 24 27.21	−06 03 48.4	17.1	N	C97
137P	2018 09 08.70569	21 24 27.05	−06 03 46.5	17.3	N	C97
137P	2018 09 08.70720	21 24 27.02	−06 03 45.9	18.1	N	C97
137P	2018 09 09.44136	21 24 09.49	−06 06 41.9	16.9	o	T05
137P	2018 09 09.45193	21 24 09.22	−06 06 44.5	16.9	o	T05
137P	2018 09 09.46202	21 24 08.97	−06 06 46.7	17.0	o	T05
137P	2018 09 09.47268	21 24 08.70	−06 06 49.2	16.9	o	T05
137P	2018 09 09.86079	21 24 00.38	−06 08 22.8	17.1	N	J01
137P	2018 09 09.88223	21 23 59.82	−06 08 27.8	17.0	N	J01
137P	2018 09 09.89655	21 23 59.46	−06 08 31.3	17.0	N	J01
137P	2018 09 10.38202	21 23 48.95	−06 10 16.4	17.1	N	Q68
137P	2018 09 10.40831	21 23 48.32	−06 10 22.7	17.5	N	Q68
137P	2018 09 11.43292	21 23 26.42	−06 14 30.0	17.1	o	T08
137P	2018 09 11.43720	21 23 26.74	−06 14 24.0	17.4	N	Q68
137P	2018 09 11.44351	21 23 26.19	−06 14 32.1	17.0	o	T08
137P	2018 09 11.45360	21 23 25.96	−06 14 34.6	17.1	o	T08
137P	2018 09 11.46427	21 23 25.71	−06 14 37.2	17.0	o	T08
137P	2018 09 11.46428	21 23 26.14	−06 14 30.2	17.3	N	Q68
137P	2018 09 12.45717	21 23 06.93	−06 18 21.8	17.3	N	Q68
137P	2018 09 12.48454	21 23 06.36	−06 18 28.4	17.5	N	Q68
137P	2018 09 13.84451	21 22 42.69	−06 23 51.1	16.8	N	L27
137P	2018 09 13.86668	21 22 42.30	−06 23 56.9	16.8	N	L27
137P	2018 09 13.88958	21 22 41.87	−06 24 01.5	17.2	N	L27
137P	2018 09 14.16464	21 22 37.58	−06 25 04.2	17.2	G	G96
137P	2018 09 14.17039	21 22 37.47	−06 25 05.4	17.2	G	G96
137P	2018 09 14.17613	21 22 37.36	−06 25 06.9	17.2	G	G96
137P	2018 09 14.18188	21 22 37.26	−06 25 08.0	17.3	G	G96
137P	2018 09 14.44915	21 22 33.11	−06 26 00.9	17.4	N	Q68
137P	2018 09 14.47984	21 22 32.56	−06 26 07.9	17.4	N	Q68
137P	2018 09 14.93273	21 22 25.74	−06 28 00.1	17.0	N	J01
137P	2018 09 14.94711	21 22 25.50	−06 28 03.5	16.9	N	J01
137P	2018 09 14.95429	21 22 25.38	−06 28 05.2	17.0	N	J01
137P	2018 09 15.84442	21 22 13.36	−06 31 26.6	17.4	N	K77
137P	2018 09 15.85302	21 22 13.24	−06 31 28.5	17.5	N	K77
137P	2018 09 17.79488	21 21 51.26	−06 38 38.0	16.5	R	K A77
137P	2018 09 17.80428	21 21 51.23	−06 38 39.3	16.6	R	K A77
137P	2018 09 17.81373	21 21 51.03	−06 38 41.6	16.7	R	K A77
137P	2018 09 19.24991	21 21 38.64	−06 43 42.6	17.3	N	KW96
137P	2018 09 19.27665	21 21 38.44	−06 43 48.3	17.1	N	KW96
137P	2018 09 19.39329	21 21 37.87	−06 44 19.0	17.2	o	T08
137P	2018 09 19.40337	21 21 37.77	−06 44 21.1	17.0	o	T08
137P	2018 09 19.41343	21 21 37.70	−06 44 23.2	17.2	o	T08
137P	2018 09 19.42348	21 21 37.58	−06 44 25.6	17.1	o	T08

138P/Shoemaker-Levy

138P	2018 08 08.36486	20 12 57.653	−20 51 46.27	21.6	w	F51
138P	2018 08 08.37457	20 12 57.044	−20 51 45.85	21.5	w	F51
138P	2018 08 08.38428	20 12 56.456	−20 51 45.75	21.7	w	F51
138P	2018 08 08.39401	20 12 55.859	−20 51 45.73	21.8	w	F51

143P/Kowal-Mrkos

143P	2018 05 10.01281	12 43 18.36	−09 32 19.6	17.5	N	J22
143P	2018 05 10.01881	12 43 18.33	−09 32 17.9	17.5	N	J22
143P	2018 05 16.92328	12 42 59.16	−09 08 46.9	17.5	N	J22
143P	2018 05 16.92521	12 42 59.15	−09 08 46.6	17.5	N	J22
143P	2018 05 16.92715	12 42 59.14	−09 08 46.3	17.5	N	J22
143P	2018 05 31.34766	12 45 54.96	−08 42 27.7	17.8	o	T05
143P	2018 05 31.35420	12 45 55.09	−08 42 26.9	17.7	o	T05
143P	2018 05 31.35967	12 45 55.23	−08 42 26.6	18.1	o	T05
143P	2018 05 31.36618	12 45 55.50	−08 42 21.9	17.8	N	E85
143P	2018 05 31.36658	12 45 55.38	−08 42 26.3	17.4	o	T05
143P	2018 05 31.36978	12 45 55.58	−08 42 21.8	17.8	N	E85
143P	2018 05 31.37339	12 45 55.65	−08 42 21.6	17.9	N	E85
143P	2018 06 02.35201	12 46 41.99	−08 41 19.9	17.5	o	T08
143P	2018 06 02.36033	12 46 42.18	−08 41 19.1	18.1	o	T08
143P	2018 06 02.36780	12 46 42.36	−08 41 19.6	17.9	o	T08
143P	2018 06 02.37571	12 46 42.53	−08 41 19.0	18.1	o	T08
143P	2018 06 02.90870	12 46 56.02	−08 41 08.2	17.8	N	J22
143P	2018 06 02.91461	12 46 56.16	−08 41 08.3	17.8	N	J22
143P	2018 06 05.33003	12 48 01.58	−08 40 47.7	17.8	o	T05
143P	2018 06 05.34019	12 48 01.86	−08 40 47.2	17.8	o	T05
143P	2018 06 05.34945	12 48 02.11	−08 40 47.7	17.9	o	T05
143P	2018 06 05.35726	12 48 02.34	−08 40 47.7	18.1	o	T05
143P	2018 06 05.96591	12 48 20.06	−08 40 51.7	18.0	N	17G40
143P	2018 06 05.96878	12 48 20.12	−08 40 51.6	18.0	N	17G40
143P	2018 06 13.36056	12 52 31.89	−08 45 52.9	18.2	o	T05
143P	2018 06 13.37135	12 52 32.27	−08 45 53.7	18.0	o	T05
143P	2018 06 13.38202	12 52 32.67	−08 45 54.4	18.0	o	T05
143P	2018 06 13.81642	12 52 49.74	−08 46 26.0	19	R	C51
Geocentric position (km)		− 6454.1704	− 2095.6964	− 1019.2098		
143P	2018 06 14.07823	12 53 00.00	−08 46 45.6			C51
Geocentric position (km)		− 6449.2729	− 2122.9393	− 992.9479		
143P	2018 06 14.20862	12 53 05.17	−08 46 55.2			C51
Geocentric position (km)		− 6380.7011	− 2160.4857	− 1307.7932		
143P	2018 06 14.25476	12 53 07.12	−08 46 57.3	18.0	N	E85
143P	2018 06 14.25837	12 53 07.27	−08 46 57.6	17.9	N	E85
143P	2018 06 14.26198	12 53 07.39	−08 46 57.9	18.2	N	E85
143P	2018 06 14.26559	12 53 07.54	−08 46 58.2	18.1	N	E85
143P	2018 06 14.26919	12 53 07.70	−08 46 58.4	18.3	N	E85

143P	2018 06 14.27445	12 53 07.79	−08 47 00.5				C51
Geocentric position (km)	− 6430.4529	− 2149.8268	− 1055.5342				
143P	2018 06 14.27458	12 53 07.78	−08 47 01.5				C51
Geocentric position (km)	− 6445.4552	− 2143.3518	− 973.2669				
143P	2018 06 14.33991	12 53 10.36	−08 47 06.8				C51
Geocentric position (km)	− 6429.2237	− 2156.6324	− 1048.9663				
143P	2018 06 14.40536	12 53 12.97	−08 47 11.3				C51
Geocentric position (km)	− 6427.9816	− 2163.4409	− 1042.4283				
143P	2018 06 14.47081	12 53 15.57	−08 47 16.9				C51
Geocentric position (km)	− 6426.7261	− 2170.2425	− 1035.8570				
143P	2018 06 14.51014	12 53 17.11	−08 47 23.7	18.7	R		D29
143P	2018 06 14.52516	12 53 17.72	−08 47 23.8	18.3	R		D29
143P	2018 06 14.53575	12 53 18.22	−08 47 22.0				C51
Geocentric position (km)	− 6357.0848	− 2199.7899	− 1356.4235				
143P	2018 06 14.54019	12 53 18.29	−08 47 25.3	18.2	R		D29
143P	2018 06 14.66716	12 53 23.43	−08 47 33.4				C51
Geocentric position (km)	− 6422.9535	− 2190.6101	− 1015.7821				
143P	2018 06 14.79807	12 53 28.72	−08 47 44.3				C51
Geocentric position (km)	− 6420.3368	− 2204.1914	− 1002.5765				
143P	2018 06 15.35477	12 53 51.17	−08 48 34.8	18.1	o		T08
143P	2018 06 15.36556	12 53 51.56	−08 48 36.1	18.2	o		T08
143P	2018 06 15.37633	12 53 51.99	−08 48 36.7	18.2	o		T08
143P	2018 06 15.38709	12 53 52.41	−08 48 38.5	17.8	o		T08
143P	2018 06 15.96146	12 54 16.43	−08 49 26.1	18.3	R	K	I47
143P	2018 06 15.97063	12 54 16.77	−08 49 27.8	18.3	R	K	I47
143P	2018 06 15.98026	12 54 17.17	−08 49 28.8	18.3	R	K	I47
143P	2018 06 17.35120	12 55 15.12	−08 51 49.8	18.5	c		T05
143P	2018 06 17.36196	12 55 15.52	−08 51 51.3	18.5	c		T05
143P	2018 06 17.37267	12 55 15.99	−08 51 51.8	18.4	c		T05
143P	2018 06 17.38341	12 55 16.46	−08 51 53.6	18.3	c		T05
143P	2018 06 18.48532	12 56 04.93	−08 53 56.3	17.2	T	K	Q11
143P	2018 06 18.49139	12 56 05.20	−08 53 56.9			K	Q11
143P	2018 06 18.49745	12 56 05.47	−08 53 57.7			K	Q11
143P	2018 06 19.32612	12 56 42.67	−08 55 34.8	17.6	o		T08
143P	2018 06 19.33655	12 56 43.10	−08 55 35.4	17.8	o		T08
143P	2018 06 19.34748	12 56 43.60	−08 55 37.1	17.7	o		T08
143P	2018 06 19.35798	12 56 44.09	−08 55 38.3	17.9	o		T08
143P	2018 07 01.89190	13 07 34.32	−09 30 42.6	18.3	T		20G40
143P	2018 07 01.89339	13 07 34.40	−09 30 42.9	18.3	T		20G40
143P	2018 07 03.16056	13 08 48.48	−09 35 14.2	18.1	G		703
143P	2018 07 03.16609	13 08 48.80	−09 35 15.5	18.0	G		703
143P	2018 07 03.17162	13 08 49.17	−09 35 16.9	18.2	G		703
143P	2018 07 03.17714	13 08 49.46	−09 35 17.9	17.9	G		703
143P	2018 07 05.16119	13 10 48.43	−09 42 42.6	17.9	G		703
143P	2018 07 05.16664	13 10 48.71	−09 42 44.0	18.2	G		703
143P	2018 07 05.17209	13 10 49.08	−09 42 46.1	17.9	G		703
143P	2018 07 05.17754	13 10 49.43	−09 42 46.5	17.9	G		703
143P	2018 07 06.92366	13 12 36.84	−09 49 38.0	18.4	N		J22
143P	2018 07 06.92632	13 12 37.00	−09 49 38.1	18.4	N		J22
143P	2018 07 06.92898	13 12 37.17	−09 49 37.8	18.4	N		J22
143P	2018 07 11.30653	13 17 17.94	−10 08 04.0	19.0	c		T05
143P	2018 07 11.31751	13 17 18.67	−10 08 06.1	19.0	c		T05
143P	2018 07 11.32849	13 17 19.43	−10 08 10.1	18.9	c		T05
143P	2018 07 11.33935	13 17 20.18	−10 08 12.3	19.1	c		T05
143P	2018 07 15.51880	13 22 02.75	−10 27 22.4	18.3	R		D29
143P	2018 07 15.53206	13 22 03.62	−10 27 26.3	18.6	R		D29
143P	2018 07 15.54532	13 22 04.54	−10 27 30.1	18.6	R		D29
143P	2018 07 17.28374	13 24 05.99	−10 35 52.8	18.4	o		T08
143P	2018 07 17.29429	13 24 06.71	−10 35 55.8	18.3	o		T08
143P	2018 07 17.30426	13 24 07.43	−10 35 58.5	18.0	o		T08
143P	2018 07 17.31467	13 24 08.11	−10 36 01.3	18.1	o		T08
143P	2018 07 26.25934	13 35 06.60	−11 22 28.5	18.6	o		T05
143P	2018 07 26.26763	13 35 07.26	−11 22 32.3	18.8	o		T05
143P	2018 07 26.27572	13 35 07.89	−11 22 34.8	18.6	o		T05
143P	2018 07 26.27665	13 35 07.92	−11 22 35.1	18.4	o		T05
143P	2018 07 26.28383	13 35 08.52	−11 22 37.1	18.3	o		T05
143P	2018 07 26.29270	13 35 09.14	−11 22 39.6	18.5	o		T05
143P	2018 07 26.30063	13 35 09.75	−11 22 42.8	18.4	o		T05
143P	2018 07 30.25971	13 40 17.80	−11 44 46.6	17.9	o		T05
143P	2018 07 30.26529	13 40 18.20	−11 44 48.7	17.7	o		T05
143P	2018 07 30.26766	13 40 18.38	−11 44 49.7	17.6	o		T05
143P	2018 07 30.27279	13 40 18.76	−11 44 51.2	18.2	o		T05
143P	2018 08 03.26800	13 45 38.97	−12 07 53.0	18.7	c		T05
143P	2018 08 03.27092	13 45 39.25	−12 07 54.5	18.4	c		T05
143P	2018 08 03.27718	13 45 39.85	−12 07 56.6	18.2	c		T05
143P	2018 08 03.27965	13 45 39.94	−12 07 58.4	18.0	c		T05
143P	2018 08 03.28527	13 45 40.33	−12 07 59.8	18.5	c		T05
143P	2018 08 03.28826	13 45 40.60	−12 08 00.1	18.8	c		T05
143P	2018 08 03.29672	13 45 41.27	−12 08 03.2	18.6	c		T05
143P	2018 08 08.26220	13 52 31.81	−12 37 36.2	18.7	c		T05
143P	2018 08 08.27251	13 52 32.61	−12 37 38.1	18.6	c		T05
143P	2018 08 08.28329	13 52 33.63	−12 37 44.0	19.2	c		T05
143P	2018 08 08.29408	13 52 34.53	−12 37 47.9	19.0	c		T05

150P/LONEOS

150P	2018 06 16.51429	20 32 38.862	−07 55 55.73	21.7	w		F51
150P	2018 06 16.52701	20 32 38.512	−07 55 54.46	21.5	w		F51
150P	2018 06 16.53967	20 32 38.162	−07 55 53.67	21.9	w		F51
150P	2018 07 10.50815	20 19 13.473	−07 41 16.61	21.9	w		F52
150P	2018 07 10.51883	20 19 13.060	−07 41 16.83	21.8	w		F52
150P	2018 07 10.52950	20 19 12.608	−07 41 16.84	22.0	w		F52

156P/Russell-LINEAR

156P	2009 04 18.30729	12 25 35.81	+12 47 33.3	23.0	r		19 568
156P	2009 04 19.26046	12 25 00.36	+12 47 59.4	22.5	r		19 568
156P	2009 04 19.27466	12 24 59.84	+12 47 59.8	22.6	r		19 568
156P	2009 04 19.28869	12 24 59.29	+12 48 00.0	22.8	r		19 568

158P/Kowal-LINEAR

158P	2018 06 07.88321	13 20 55.53	+00 40 53.6	19.6	N		J22
158P	2018 06 07.88824	13 20 55.52	+00 40 53.4	19.6	N		J22
158P	2018 06 07.89076	13 20 55.50	+00 40 52.7	19.6	N		J22

159P/LONEOS

159P	2018 09 12.02941	06 10 53.21	+32 17 02.5	18.5	N	K	I81
159P	2018 09 12.03303	06 10 53.41	+32 17 03.4	18.6	N	K	I81
159P	2018 09 12.03664	06 10 53.66	+32 17 05.2	18.6	N	K	I81

162P/Siding Spring

162P	2018 06 05.27661	13 24 10.623	−09 44 05.09	20.9	w	F51
162P	2018 06 05.28827	13 24 10.353	−09 44 04.82	20.8	w	F51
162P	2018 06 05.29993	13 24 10.073	−09 44 04.71	21.0	w	F51
162P	2018 06 05.31158	13 24 09.804	−09 44 04.58	21.0	w	F51

164P/Christensen

164P	2018 08 10.21746	07 17 03.42	+22 56 41.5	18.4	T	9 G40
164P	2018 08 10.22252	07 17 04.21	+22 56 42.7	18.2	T	9 G40
164P	2018 09 10.47483	08 35 35.52	+22 26 06.8			32H06
164P	2018 09 10.47702	08 35 35.85	+22 26 07.0			32H06
164P	2018 09 10.47921	08 35 36.20	+22 26 07.3	18.0	G	32H06

171P/Spahr

171P	2018 09 14.42001	04 28 59.64	−05 51 33.2	20.2	V	691
171P	2018 09 14.44253	04 29 01.30	−05 51 36.8	20.1	V	691
171P	2018 09 14.46224	04 29 02.76	−05 51 40.6	20.0	G	G96
171P	2018 09 14.46561	04 29 02.99	−05 51 41.3	20.3	V	691
171P	2018 09 14.46738	04 29 03.12	−05 51 41.9	19.8	G	G96
171P	2018 09 14.47253	04 29 03.51	−05 51 43.5	19.9	G	G96
171P	2018 09 14.47766	04 29 03.86	−05 51 43.8	19.9	G	G96
171P	2018 09 18.10306	04 33 25.87	−06 02 50.4	19.8	N	K K77
171P	2018 09 18.10662	04 33 26.11	−06 02 50.8	19.7	N	K K77

172P/Yeung

172P	2018 07 10.52006	22 20 36.250	−25 02 42.62	19.9	w	F51
172P	2018 07 10.53040	22 20 36.055	−25 02 44.87	19.9	w	F51
172P	2018 07 10.54074	22 20 35.859	−25 02 47.08	19.9	w	F51
172P	2018 07 10.55108	22 20 35.658	−25 02 49.32	19.9	w	F51
172P	2018 07 14.77161	22 19 10.68	−25 18 15.6	19.4	R	D29
172P	2018 07 14.77250	22 19 10.64	−25 18 16.3	19.8	R	D29
172P	2018 07 14.78575	22 19 10.30	−25 18 18.8	20.0	R	D29
172P	2018 07 14.78664	22 19 10.29	−25 18 19.3	20.2	R	D29
172P	2018 07 14.79989	22 19 09.94	−25 18 22.9	19.4	R	D29
172P	2018 07 14.80078	22 19 09.88	−25 18 22.7	19.4	R	D29
172P	2018 08 07.45229	22 06 30.084	−26 44 32.73	19.6	w	F51
172P	2018 08 07.46366	22 06 29.617	−26 44 34.96	19.5	w	F51
172P	2018 08 07.47502	22 06 29.146	−26 44 37.08	19.5	w	F51
172P	2018 08 07.48639	22 06 28.685	−26 44 39.30	19.5	w	F51

183P/Korlević-Jurić

183P	2018 04 18.92858	12 05 45.15	−02 00 16.7	17.9	N	K 160
183P	2018 04 18.93096	12 05 45.07	−02 00 16.7	18.9	N	K 160
183P	2018 06 13.33408	11 57 48.09	−03 42 07.4	19.1	o	T05
183P	2018 06 13.33453	11 57 48.02	−03 42 05.9	18.7	o	T05
183P	2018 06 13.34523	11 57 48.29	−03 42 09.8	18.5	o	T05
183P	2018 06 13.35540	11 57 48.53	−03 42 12.2	19.0	o	T05
183P	2018 06 13.36658	11 57 48.55	−03 42 14.7	19.1	o	T05
183P	2018 06 13.51350	11 57 51.11	−03 42 50.2			K Q11
183P	2018 06 13.51957	11 57 51.21	−03 42 51.4			K Q11
183P	2018 06 13.52563	11 57 51.31	−03 42 52.9	18.3	T	K Q11
183P	2018 06 15.51718	11 58 27.31	−03 50 47.9	18.9	R	D29
183P	2018 06 15.53132	11 58 27.58	−03 50 51.4	18.6	R	D29
183P	2018 06 15.54546	11 58 27.83	−03 50 54.4	18.7	R	D29

186P/Garradd

186P	2018 05 14.89110	12 19 17.94	−36 22 38.4	17.7	N	J22
186P	2018 05 14.89655	12 19 17.97	−36 22 37.3	17.7	N	J22
186P	2018 05 31.24876	12 15 52.02	−35 09 17.2	17.5	o	T05
186P	2018 05 31.25014	12 15 52.05	−35 09 17.3	17.9	o	T05
186P	2018 05 31.25984	12 15 52.05	−35 09 13.8	17.6	o	T05
186P	2018 05 31.26942	12 15 51.97	−35 09 11.7	18.3	o	T05
186P	2018 06 02.34321	12 15 46.02	−35 00 19.3	17.6	o	T08
186P	2018 06 02.35062	12 15 46.02	−35 00 17.6	17.2	o	T08
186P	2018 06 02.35849	12 15 45.97	−35 00 15.7	17.8	o	T08
186P	2018 06 02.36593	12 15 45.96	−35 00 13.8	17.7	o	T08
186P	2018 06 07.06510	12 15 49.57	−34 40 52.1	17.8	T	3W88
186P	2018 06 07.07369	12 15 49.56	−34 40 49.5	17.8	T	3W88
186P	2018 06 12.29749	12 16 20.31	−34 20 49.3	18.6	c	T05
186P	2018 06 12.30486	12 16 20.39	−34 20 47.4	18.2	c	T05
186P	2018 06 12.31272	12 16 20.40	−34 20 44.7	18.1	c	T05
186P	2018 06 12.32009	12 16 20.47	−34 20 43.8	18.6	c	T05
186P	2018 06 14.28984	12 16 39.32	−34 13 38.6	17.7	o	T05
186P	2018 06 14.29316	12 16 39.35	−34 13 37.3	17.7	o	T08
186P	2018 06 14.29567	12 16 39.35	−34 13 37.7	17.6	o	T05
186P	2018 06 14.30055	12 16 39.48	−34 13 36.2	18.0	o	T08
186P	2018 06 14.30842	12 16 39.48	−34 13 35.0	18.0	o	T08
186P	2018 06 14.31183	12 16 39.48	−34 13 34.3	17.7	o	T05
186P	2018 06 14.31583	12 16 39.53	−34 13 32.7	17.7	o	T08
186P	2018 06 14.32355	12 16 39.63	−34 13 31.8	17.5	o	T05
186P	2018 06 16.27464	12 17 02.11	−34 06 47.7	18.2	c	T05
186P	2018 06 16.28269	12 17 02.24	−34 06 46.6	18.2	c	T05
186P	2018 06 16.28603	12 17 02.27	−34 06 45.1	18.4	c	T05
186P	2018 06 16.29065	12 17 02.34	−34 06 44.2	18.4	c	T05
186P	2018 06 16.29398	12 17 02.34	−34 06 44.1	18.1	c	T05
186P	2018 06 16.29872	12 17 02.42	−34 06 43.2	18.5	c	T05
186P	2018 06 16.30195	12 17 02.44	−34 06 42.9	18.4	c	T05
186P	2018 06 16.30986	12 17 02.54	−34 06 40.2	18.4	c	T05
186P	2018 06 17.09600	12 17 12.69	−34 04 01.1	17.8	R	K I47
186P	2018 06 17.11162	12 17 12.87	−34 03 57.9	17.8	R	K I47
186P	2018 06 18.27137	12 17 29.06	−34 00 11.2	17.8	N	E85
186P	2018 06 18.27494	12 17 29.09	−34 00 10.6	18.6	N	E85
186P	2018 06 18.27852	12 17 29.14	−34 00 10.1	18.0	N	E85
186P	2018 06 18.28368	12 17 29.24	−34 00 08.7	18.3	o	T08
186P	2018 06 18.29061	12 17 29.22	−34 00 07.6	18.1	o	T08
186P	2018 06 18.29801	12 17 29.34	−34 00 07.0	18.2	o	T08
186P	2018 06 18.30543	12 17 29.50	−34 00 05.6	17.4	o	T08
186P	2018 08 09.40862	12 48 13.72	−33 14 28.4	18.2	G	K Q38
186P	2018 08 09.41405	12 48 14.08	−33 14 29.3	18.8	G	K Q38
186P	2018 09 07.43326	13 17 00.69	−34 29 22.7	18.1	G	Q38
186P	2018 09 07.43865	13 17 00.95	−34 29 23.7	17.5	G	Q38
186P	2018 09 10.37516	13 20 15.32	−34 40 07.7			1 Q62
186P	2018 09 10.37871	13 20 15.55	−34 40 08.3	17.7	G	1 Q62

187P/LINEAR

187P	2018 05 06.02344	16 28 51.03	−07 58 11.3	15.4	N	K B50
187P	2018 05 06.02618	16 28 50.86	−07 58 11.4	16.9	N	K B50
187P	2018 05 22.55510	16 19 16.78	−07 48 06.3	18.1	T	K D95

187P	2018 05 22.55938	16 19 16.47	−07 48 05.1			K	D95
187P	2018 06 02.34238	16 12 30.59	−07 51 29.3	18.9	G		G96
187P	2018 06 02.34759	16 12 30.36	−07 51 28.8	19.0	G		G96
187P	2018 06 02.35281	16 12 30.16	−07 51 29.2	19.0	G		G96
187P	2018 06 02.35803	16 12 29.98	−07 51 29.9	19.1	G		G96
187P	2018 06 04.39798	16 11 14.668	−07 53 07.46	19.3	i		F52
187P	2018 06 04.40784	16 11 14.265	−07 53 08.28	19.8	i		F52
187P	2018 06 04.41771	16 11 13.877	−07 53 08.69	19.6	i		F52
187P	2018 06 04.42763	16 11 13.500	−07 53 09.06	19.6	i		F52
187P	2018 06 07.94925	16 09 06.02	−07 56 47.1	19.3	N		J22
187P	2018 06 07.95670	16 09 05.77	−07 56 47.5	19.3	N		J22
187P	2018 06 07.96410	16 09 05.49	−07 56 48.5	19.3	N		J22
187P	2018 06 08.40819	16 08 49.647	−07 57 19.30	20.0	w		F51
187P	2018 06 08.42062	16 08 49.183	−07 57 20.15	20.1	w		F51
187P	2018 06 08.43306	16 08 48.732	−07 57 21.07	20.2	w		F51
187P	2018 06 08.44553	16 08 48.273	−07 57 22.02	20.3	w		F51
187P	2018 06 10.91608	16 07 21.94	−08 00 36.8	19.9	N	K	A71
187P	2018 06 10.92328	16 07 21.65	−08 00 37.1	19.5	N	K	A71
187P	2018 06 10.93047	16 07 21.39	−08 00 39.0	19.7	N	K	A71
187P	2018 06 10.93695	16 07 21.19	−08 00 38.7	19.5	N	K	A71
187P	2018 06 13.62378	16 05 50.43	−08 04 42.7	18.3	T		372
187P	2018 06 13.64670	16 05 49.65	−08 04 45.0				372
187P	2018 06 15.37500	16 04 53.401	−08 07 41.35	20.2	w		F51
187P	2018 06 15.38677	16 04 53.011	−08 07 42.60	20.4	w		F51
187P	2018 06 15.39856	16 04 52.620	−08 07 43.85	20.3	w		F51
187P	2018 06 15.41034	16 04 52.228	−08 07 45.05	20.4	w		F51
187P	2018 06 18.27187	16 03 22.85	−08 13 10.2	19.2	G		G96
187P	2018 06 18.27704	16 03 22.71	−08 13 11.0	19.3	G		G96
187P	2018 06 18.28221	16 03 22.56	−08 13 11.3	19.3	G		G96
187P	2018 06 18.28739	16 03 22.39	−08 13 12.0	19.3	G		G96
187P	2018 06 18.29675	16 03 22.14	−08 13 12.4	19.1	G		703
187P	2018 06 18.30204	16 03 21.94	−08 13 13.3	19.8	G		703
187P	2018 06 18.30733	16 03 21.71	−08 13 13.2	19.2	G		703
187P	2018 06 18.31262	16 03 21.54	−08 13 15.3	20.1	G		703
187P	2018 06 18.35368	16 03 20.450	−08 13 18.90	20.5	w		F51
187P	2018 06 18.36734	16 03 20.022	−08 13 20.63	20.6	w		F51
187P	2018 06 18.38097	16 03 19.596	−08 13 22.25	20.5	w		F51
187P	2018 06 18.39458	16 03 19.165	−08 13 23.89	20.7	w		F51
187P	2018 06 19.42535	16 02 48.30	−08 15 32.3	19.2	o		T08
187P	2018 06 19.43583	16 02 47.93	−08 15 32.3	19.2	o		T08
187P	2018 06 19.44685	16 02 47.61	−08 15 33.6	19.3	o		T08
187P	2018 06 19.45742	16 02 47.38	−08 15 33.9	19.2	o		T08
187P	2018 06 21.63863	16 01 44.61	−08 20 20.5			K	Q11
187P	2018 06 21.64467	16 01 44.43	−08 20 21.9	18.9	T	K	Q11
187P	2018 06 22.50848	16 01 20.63	−08 22 21.6			K	Q11
187P	2018 06 22.51206	16 01 20.53	−08 22 21.9	19.0	T	K	Q11
187P	2018 06 22.94828	16 01 08.74	−08 23 24.1	19.4	N	K	L27
187P	2018 06 22.95961	16 01 08.19	−08 23 26.0	19.2	N	K	L27
187P	2018 06 22.97094	16 01 07.84	−08 23 27.5	19.5	N	K	L27
187P	2018 07 01.90021	15 57 38.61	−08 47 33.2	19.3	N		J22
187P	2018 07 01.90760	15 57 38.42	−08 47 34.4	19.3	N		J22
187P	2018 07 01.91494	15 57 38.27	−08 47 35.7	19.3	N		J22
187P	2018 07 03.29544	15 57 11.913	−08 51 49.40	20.2	w		F52
187P	2018 07 03.30530	15 57 11.720	−08 51 51.36	20.4	w		F52
187P	2018 07 03.31521	15 57 11.532	−08 51 53.13	20.1	w		F52
187P	2018 07 03.32506	15 57 11.322	−08 51 55.25	20.3	w		F52
187P	2018 07 12.28756	15 55 03.286	−09 22 28.02	20.3	w		F51
187P	2018 07 12.29881	15 55 03.154	−09 22 30.55	20.5	w		F51
187P	2018 07 12.32133	15 55 02.909	−09 22 35.46	20.4	w		F51
187P	2018 07 15.57618	15 54 35.58	−09 34 55.2			K	Q11
187P	2018 07 15.57976	15 54 35.54	−09 34 56.0			K	Q11
187P	2018 07 15.58439	15 54 35.51	−09 34 57.0	19.1	T	K	Q11
187P	2018 08 02.89526	15 55 18.67	−10 53 45.8	19.8	T	9	G40
187P	2018 08 02.94691	15 55 19.22	−10 54 00.4	19.8	T	9	G40
187P	2018 08 03.89801	15 55 30.58	−10 58 28.8	19.7	N		J22
187P	2018 08 03.90541	15 55 30.63	−10 58 30.0	19.7	N		J22
187P	2018 08 03.90912	15 55 30.69	−10 58 30.7	19.7	N		J22
187P	2018 08 11.90267	15 57 39.38	−11 36 55.9	19.8	V	K	215
187P	2018 08 11.90460	15 57 39.40	−11 36 56.2	19.5	V	K	215
187P	2018 08 11.90652	15 57 39.42	−11 36 57.4			K	215

200P/Larsen

200P	2018 06 17.03761	20 37 44.54	−04 18 18.7	18.1	N	K	160
200P	2018 06 17.04011	20 37 44.54	−04 18 18.5	18.1	N	K	160
200P	2018 06 17.04246	20 37 44.53	−04 18 18.3	18.1	N	K	160
200P	2018 07 20.00834	20 23 15.02	−03 34 17.9	20.4	N	K	L27
200P	2018 07 20.05187	20 23 13.39	−03 34 18.9	20.5	N	K	L27
200P	2018 07 25.96837	20 19 40.58	−03 37 52.7	17.1	N	K	160
200P	2018 07 25.97057	20 19 40.58	−03 37 53.0	17.2	N	K	160
200P	2018 07 25.97277	20 19 40.56	−03 37 52.9	17.3	N	K	160
200P	2018 08 02.90094	20 14 52.02	−03 47 54.3	18.9	N		K77
200P	2018 08 02.90167	20 14 51.84	−03 47 53.3	18.6	N		K77
200P	2018 08 12.36384	20 09 23.398	−04 06 26.11	21.8	w		F51
200P	2018 08 12.37496	20 09 23.003	−04 06 27.56	21.9	w		F51
200P	2018 08 12.38614	20 09 22.649	−04 06 29.08	21.9	w		F51
200P	2018 08 12.39727	20 09 22.266	−04 06 30.60	21.8	w		F51

215P/NEAT

215P	2018 06 02.30148	15 46 13.70	−21 16 10.4	18.8	G		G96
215P	2018 06 02.30704	15 46 13.44	−21 16 09.9	18.9	G		G96
215P	2018 06 02.31258	15 46 13.21	−21 16 09.7	19.2	G		G96
215P	2018 06 02.31814	15 46 12.95	−21 16 09.2	18.4	G		G96
215P	2018 06 05.34064	15 44 14.492	−21 15 11.88	19.4	w		F51
215P	2018 06 05.35292	15 44 13.988	−21 15 11.89	19.4	w		F51
215P	2018 06 05.36518	15 44 13.513	−21 15 11.67	19.6	w		F51
215P	2018 06 05.37747	15 44 13.022	−21 15 11.41	19.5	w		F51
215P	2018 06 07.21634	15 43 02.65	−21 14 35.2	19.8	V		W98
215P	2018 06 07.22341	15 43 02.29	−21 14 34.1	19.4	V		W98
215P	2018 06 07.23047	15 43 02.05	−21 14 35.4	19.8	V		W98
215P	2018 06 12.53871	15 39 49.23	−21 13 06.2	19.1	R		D29
215P	2018 06 12.55373	15 39 48.74	−21 13 06.0	19.5	R		D29
215P	2018 06 12.56876	15 39 48.19	−21 13 05.0	18.9	R		D29
215P	2018 06 14.34198	15 38 47.529	−21 12 39.89	19.7	w		F51
215P	2018 06 14.36421	15 38 46.759	−21 12 39.47	19.6	w		F51
215P	2018 06 14.37530	15 38 46.368	−21 12 39.39	19.7	w		F51
215P	2018 06 20.93531	15 35 21.97	−21 11 37.5	18.9	N	K	215

215P	2018 06 20.93723	15 35 21.91	−21 11 36.9	19.2	N	K 215
215P	2018 06 20.93916	15 35 21.88	−21 11 36.5	19.2	N	K 215

217P/LINEAR

217P	2018 01 12.49225	07 40 25.17	+16 39 08.6			5 U69
217P	2018 01 12.49515	07 40 24.93	+16 39 10.5	15.7	w	5 U69

223P/Skiff

223P	2018 05 16.78901	23 02 46.66	−20 18 27.6			1 Q62
223P	2018 05 16.79252	23 02 46.86	−20 18 25.5	20.3	w	1 Q62
223P	2018 07 10.70830	23 36 31.31	−14 13 50.9			1 Q62
223P	2018 07 10.71034	23 36 31.33	−14 13 50.4			1 Q62
223P	2018 07 10.71237	23 36 31.33	−14 13 49.9	19.6	w	1 Q62
223P	2018 07 12.53100	23 36 40.333	−14 04 09.95	19.7	w	F51
223P	2018 07 12.54204	23 36 40.355	−14 04 06.48	19.8	w	F51
223P	2018 07 12.55307	23 36 40.381	−14 04 03.01	19.6	w	F51
223P	2018 07 12.56412	23 36 40.399	−14 03 59.47	19.6	w	F51
223P	2018 08 05.68962	23 30 39.34	−12 05 37.7	18.9	T	K Q11
223P	2018 08 05.69569	23 30 39.12	−12 05 35.9			K Q11
223P	2018 08 05.70176	23 30 38.91	−12 05 34.2			K Q11
223P	2018 08 09.09049	23 28 34.14	−11 49 49.7	18.4	T	20G40
223P	2018 08 09.10448	23 28 33.57	−11 49 46.2	18.8	T	20G40
223P	2018 08 11.54437	23 26 52.483	−11 38 26.65	19.2	w	F51
223P	2018 08 11.55605	23 26 51.952	−11 38 23.32	19.2	w	F51
223P	2018 08 11.56776	23 26 51.424	−11 38 20.03	19.1	w	F51
223P	2018 08 11.57941	23 26 50.898	−11 38 16.79	19.1	w	F51
223P	2018 08 13.04396	23 25 45.93	−11 31 29.4	19.1	N	K77
223P	2018 08 13.05053	23 25 45.65	−11 31 27.2	19.1	N	K77
223P	2018 08 18.51664	23 21 16.311	−11 05 43.74	19.1	w	F51
223P	2018 08 18.52917	23 21 15.623	−11 05 40.17	19.1	w	F51
223P	2018 08 19.43123	23 20 27.60	−11 01 16.1	18.9	N	E94
223P	2018 08 19.43367	23 20 27.42	−11 01 14.9	18.8	N	E94
223P	2018 08 19.43617	23 20 27.29	−11 01 14.8	18.9	N	E94
223P	2018 08 19.49238	23 20 24.10	−11 00 58.6	18.9	N	E94
223P	2018 08 19.49485	23 20 23.99	−11 00 57.9	18.8	N	E94
223P	2018 08 19.49738	23 20 23.90	−11 00 57.6	18.9	N	E94
223P	2018 08 20.04607	23 19 53.87	−10 58 26.5	18.7	T	K 461
223P	2018 08 20.05312	23 19 53.48	−10 58 24.5	18.8	T	K 461
223P	2018 08 20.05947	23 19 53.11	−10 58 22.6	18.7	T	K 461
223P	2018 08 21.16211	23 18 51.91	−10 53 03.3	18.3	T	9 G40
223P	2018 08 21.16741	23 18 51.60	−10 53 01.4	18.3	T	9 G40
223P	2018 08 21.17202	23 18 51.33	−10 53 00.0	18.2	T	9 G40
223P	2018 09 03.30324	23 05 13.40	−09 45 56.9	17.9	N	KW96
223P	2018 09 03.32586	23 05 11.85	−09 45 49.2	18.2	N	KW96
223P	2018 09 03.50512	23 04 59.98	−09 44 55.3	18.0	o	T08
223P	2018 09 03.51566	23 04 59.25	−09 44 51.5	18.4	o	T08
223P	2018 09 03.52581	23 04 58.53	−09 44 47.3	18.3	o	T08
223P	2018 09 03.53651	23 04 57.85	−09 44 45.3	18.1	o	T08
223P	2018 09 04.00810	23 04 26.52	−09 42 11.7	18.2	N	J22
223P	2018 09 04.01222	23 04 26.20	−09 42 10.7	18.2	N	J22
223P	2018 09 04.01616	23 04 25.93	−09 42 09.5	18.2	N	J22
223P	2018 09 04.25083	23 04 10.23	−09 40 52.7	18.4	G	703
223P	2018 09 04.25587	23 04 09.84	−09 40 50.7	18.0	G	703
223P	2018 09 04.26092	23 04 09.52	−09 40 49.0	18.0	G	703
223P	2018 09 04.26596	23 04 09.21	−09 40 47.4	17.9	G	703
223P	2018 09 07.22959	23 00 48.91	−09 24 19.2	18.2	G	703
223P	2018 09 07.23490	23 00 48.52	−09 24 17.9			703
223P	2018 09 07.24864	23 00 47.57	−09 24 12.2			703
223P	2018 09 07.29660	23 00 44.25	−09 23 56.9	18.1	G	G96
223P	2018 09 07.30174	23 00 43.88	−09 23 55.2	18.4	G	G96
223P	2018 09 07.30688	23 00 43.51	−09 23 53.4	18.4	G	G96
223P	2018 09 07.31204	23 00 43.15	−09 23 51.6	18.3	G	G96
223P	2018 09 10.22224	22 57 25.48	−09 07 10.2	18.1	G	703
223P	2018 09 10.22753	22 57 25.10	−09 07 07.8	18.5	G	703
223P	2018 09 10.23282	22 57 24.73	−09 07 06.1	18.4	G	703
223P	2018 09 10.23810	22 57 24.36	−09 07 04.5	18.4	G	703
223P	2018 09 11.64401	22 55 48.88	−08 58 48.6	18.4	R	D29
223P	2018 09 11.65815	22 55 47.88	−08 58 43.7	18.3	R	D29
223P	2018 09 11.67229	22 55 46.92	−08 58 38.3	18.2	R	D29
223P	2018 09 11.91009	22 55 30.90	−08 57 15.2	19.0	N	K77
223P	2018 09 11.92507	22 55 29.86	−08 57 09.7	18.8	N	K77
223P	2018 09 12.49688	22 54 51.31	−08 53 38.5	18.8	N	K Q68
223P	2018 09 12.53161	22 54 48.98	−08 53 25.8	18.9	N	K Q68
223P	2018 09 14.06513	22 53 05.82	−08 44 12.3	19.4	V	W98
223P	2018 09 14.07219	22 53 05.41	−08 44 11.1	19.5	V	W98
223P	2018 09 14.07925	22 53 04.89	−08 44 07.4	19.3	V	W98
223P	2018 09 14.21224	22 52 55.97	−08 43 23.5	18.8	G	G96
223P	2018 09 14.21791	22 52 55.59	−08 43 21.8	18.8	G	G96
223P	2018 09 14.22358	22 52 55.19	−08 43 19.8	18.8	G	G96
223P	2018 09 14.22925	22 52 54.80	−08 43 17.7	18.9	G	G96
223P	2018 09 14.49304	22 52 37.18	−08 41 35.0	18.3	N	K Q68
223P	2018 09 14.52452	22 52 35.02	−08 41 23.6	18.7	N	K Q68
223P	2018 09 17.45056	22 49 21.45	−08 23 19.9	18.5	o	T05
223P	2018 09 17.46055	22 49 20.81	−08 23 16.0	18.5	o	T05
223P	2018 09 17.47053	22 49 20.11	−08 23 11.9	18.3	o	T05
223P	2018 09 17.48063	22 49 19.44	−08 23 08.0	18.2	o	T05
223P	2018 09 18.43410	22 48 17.61	−08 17 06.5	18.9	o	T08
223P	2018 09 18.44437	22 48 16.86	−08 17 01.8	18.5	o	T08
223P	2018 09 18.45415	22 48 16.16	−08 16 57.6	18.3	o	T08
223P	2018 09 18.46436	22 48 15.52	−08 16 54.7	18.0	o	T08

227P/Catalina-LINEAR

227P	2018 05 18.71280	16 37 46.50	−24 56 47.1			1 Q62
227P	2018 05 18.71616	16 37 46.30	−24 56 46.7	20.7	w	1 Q62

234P/LINEAR

234P	2018 06 10.42176	16 46 58.580	−06 30 57.15	22.1	w	F51
234P	2018 06 10.43410	16 46 58.047	−06 30 55.93	22.1	w	F51
234P	2018 06 10.45874	16 46 57.030	−06 30 54.79	22.0	w	F51
234P	2018 06 17.36393	16 42 24.713	−06 26 05.86	22.2	w	F51
234P	2018 06 17.37501	16 42 24.268	−06 26 05.90	22.4	w	F51
234P	2018 06 17.38608	16 42 23.842	−06 26 05.55	22.3	w	F51
234P	2018 06 17.39714	16 42 23.417	−06 26 05.35	22.2	w	F51
234P	2018 06 18.36206	16 41 47.302	−06 25 51.96	22.4	w	F51
234P	2018 06 18.37572	16 41 46.777	−06 25 51.55	22.3	w	F51
234P	2018 06 18.38936	16 41 46.257	−06 25 51.52	22.3	w	F51

235P/LINEAR

235P	2018 04 18.91228	11 34 06.79	−01 39 55.9	18.6	N	K 160
235P	2018 04 18.91465	11 34 06.78	−01 39 53.1	18.6	N	K 160
235P	2018 04 18.91702	11 34 06.84	−01 39 53.1	19.1	N	K 160
235P	2018 04 21.98701	11 33 35.18	−01 22 27.4	18.5	N	K 585
235P	2018 04 21.98772	11 33 35.14	−01 22 26.3	18.4	N	K 585
235P	2018 04 21.98844	11 33 35.14	−01 22 27.5	18.6	N	K 585
235P	2018 04 21.98915	11 33 35.13	−01 22 26.5	18.5	N	K 585
235P	2018 04 21.99130	11 33 35.08	−01 22 26.2	18.9	N	K 585
235P	2018 04 21.99202	11 33 35.03	−01 22 26.1	18.9	N	K 585
235P	2018 04 21.99345	11 33 35.10	−01 22 25.4	18.5	N	K 585
235P	2018 04 21.99489	11 33 35.10	−01 22 24.6	18.4	N	K 585
235P	2018 04 21.99525	11 33 35.01	−01 22 23.9	18.4	N	K 585
235P	2018 04 21.99740	11 33 35.00	−01 22 24.0	18.5	N	K 585
235P	2018 04 21.99812	11 33 35.02	−01 22 23.1	18.5	N	K 585
235P	2018 04 22.00169	11 33 34.95	−01 22 22.2	18.6	N	K 585
235P	2018 04 22.00204	11 33 35.02	−01 22 22.0	18.6	N	K 585
235P	2018 04 22.00311	11 33 35.03	−01 22 21.4	18.5	N	K 585
235P	2018 06 03.89959	11 46 41.21	+00 05 14.5	19.8	T	9 G40
235P	2018 06 03.90765	11 46 41.53	+00 05 14.2	19.8	T	9 G40

240P/NEAT

240P	2018 08 18.22267	07 47 05.15	+28 54 19.6	16.9	N	9 G40
240P	2018 08 18.22578	07 47 05.62	+28 54 19.8	17.0	N	9 G40
240P	2018 08 18.22930	07 47 06.08	+28 54 20.0	16.8	N	9 G40

243P/NEAT

243P	2018 05 16.79910	00 12 32.80	−05 27 51.9			1 Q62
243P	2018 05 16.80170	00 12 33.03	−05 27 50.6	20.5	w	1 Q62
243P	2018 06 15.80852	00 59 00.85	−01 30 31.9			1 Q62
243P	2018 06 15.81100	00 59 01.06	−01 30 30.9			1 Q62
243P	2018 06 15.81347	00 59 01.28	−01 30 29.5	19.6	w	1 Q62
243P	2018 07 17.14272	01 40 52.94	+01 26 41.6	18.6	R	20G40
243P	2018 07 17.17379	01 40 55.16	+01 26 49.7	18.6	R	20G40
243P	2018 08 06.02867	02 01 24.57	+02 27 37.8	18.5	N	KK77
243P	2018 08 06.03228	02 01 24.85	+02 27 38.2	18.7	N	KK77
243P	2018 08 20.06779	02 11 41.20	+02 43 01.5	19.4	T	K 461
243P	2018 08 20.07484	02 11 41.44	+02 43 01.8	19.3	T	K 461
243P	2018 08 20.08189	02 11 41.68	+02 43 01.8	19.4	T	K 461
243P	2018 08 20.18086	02 11 45.15	+02 43 04.3	20.1	T	20G40
243P	2018 08 20.19862	02 11 45.72	+02 43 03.7	20.1	T	20G40
243P	2018 08 22.56041	02 13 04.223	+02 43 21.36	19.6	w	F51
243P	2018 08 22.57286	02 13 04.597	+02 43 21.38	19.4	w	F51
243P	2018 08 22.58532	02 13 04.965	+02 43 21.38	19.6	w	F51
243P	2018 08 22.59785	02 13 05.341	+02 43 21.35	19.5	w	F51
243P	2018 09 10.61166	02 18 36.36	+02 23 29.3	18.4	N	Q68
243P	2018 09 10.67757	02 18 36.41	+02 23 21.5	18.1	N	Q68
243P	2018 09 12.60722	02 18 38.15	+02 19 22.5	18.1	N	Q68
243P	2018 09 12.67900	02 18 37.95	+02 19 13.4	18.6	N	Q68
243P	2018 09 14.60007	02 18 33.70	+02 14 57.3	18.0	N	Q68
243P	2018 09 14.67982	02 18 33.21	+02 14 46.8	18.1	N	Q68
243P	2018 09 19.56264	02 17 54.85	+02 02 42.6	17.9	o	T08
243P	2018 09 19.57278	02 17 54.77	+02 02 41.6	17.9	o	T08
243P	2018 09 19.58294	02 17 54.64	+02 02 40.4	17.7	o	T08
243P	2018 09 19.59311	02 17 54.54	+02 02 39.0	18.1	o	T08

245P/WISE

245P	2018 06 18.42684	22 52 35.63	−06 31 20.0	20.5	G	G96
245P	2018 06 18.43305	22 52 35.68	−06 31 14.6	20.2	G	G96
245P	2018 06 18.43927	22 52 35.84	−06 31 10.3	21.0	G	G96
245P	2018 06 18.44548	22 52 35.97	−06 31 06.4	20.5	G	G96
245P	2018 07 08.56580	22 54 46.848	−02 59 06.57	21.1	w	F51
245P	2018 07 08.57636	22 54 46.729	−02 59 00.23	21.0	w	F51
245P	2018 07 08.58694	22 54 46.603	−02 58 54.25	21.1	w	F51
245P	2018 07 08.59753	22 54 46.482	−02 58 48.22	21.1	w	F51
245P	2018 08 18.46613	22 27 55.782	+01 41 10.33	20.5	w	F51
245P	2018 08 18.47856	22 27 55.019	+01 41 13.19	20.5	w	F51
245P	2018 08 18.49085	22 27 54.259	+01 41 15.91	20.6	w	F51
245P	2018 08 18.50312	22 27 53.511	+01 41 18.65	20.7	w	F51
245P	2018 09 06.34916	22 09 37.00	+02 27 31.7	19.5	G	G96
245P	2018 09 06.35474	22 09 36.73	+02 27 31.8	19.6	G	G96
245P	2018 09 06.36032	22 09 36.42	+02 27 32.2	20.1	G	G96
245P	2018 09 06.36590	22 09 36.12	+02 27 32.1	19.4	G	G96
245P	2018 09 12.19367	22 04 41.37	+02 33 38.8	19.9	G	G96
245P	2018 09 12.19932	22 04 41.06	+02 33 39.6	20.2	G	G96
245P	2018 09 12.20494	22 04 40.79	+02 33 39.3	19.8	G	G96
245P	2018 09 12.21057	22 04 40.50	+02 33 39.9	20.4	G	G96

250P/Larson

250P	2018 01 14.35139	07 33 36.42	+36 31 17.2			5 U69
250P	2018 01 14.35557	07 33 36.24	+36 31 19.8	18.6	w	5 U69

263P/Gibbs

263P	2018 07 04.34559	16 46 34.479	−15 28 38.55	21.8	w	F51
263P	2018 07 04.35720	16 46 33.966	−15 28 41.17	21.6	w	F51
263P	2018 07 04.38021	16 46 32.977	−15 28 45.45	21.7	w	F51

300P/Catalina

300P	2018 09 10.38376	13 57 16.81	−10 01 19.7			1 Q62
300P	2018 09 10.38554	13 57 17.12	−10 01 21.8	19.2	G	1 Q62
300P	2018 09 17.37865	14 17 08.41	−12 15 12.1			1 Q62
300P	2018 09 17.38086	14 17 08.82	−12 15 14.8			1 Q62
300P	2018 09 17.38308	14 17 09.24	−12 15 17.7	18.4	G	1 Q62

313P/Gibbs

313P	2018 06 15.38847	14 07 06.13	−00 01 09.4	19.1	o	T08
313P	2018 06 15.39926	14 07 05.93	−00 01 10.9	18.9	o	T08
313P	2018 06 15.41002	14 07 05.82	−00 01 11.9	18.9	o	T08
313P	2018 06 15.42081	14 07 05.63	−00 01 14.5	18.8	o	T08
313P	2018 06 17.38870	14 06 37.85	−00 06 20.3	19.1	c	T05
313P	2018 06 17.39952	14 06 37.67	−00 06 22.8	19.2	c	T05
313P	2018 06 17.41039	14 06 37.55	−00 06 25.0	19.1	c	T05
313P	2018 06 17.42135	14 06 37.38	−00 06 25.7	19.6	c	T05
313P	2018 07 11.51650	14 06 28.71	−01 40 02.1	19.6	R	D29
313P	2018 07 11.53064	14 06 28.80	−01 40 06.1	19.6	R	D29
313P	2018 07 11.54478	14 06 29.00	−01 40 10.4	19.3	R	D29

315P/LONEOS

315P	2018 06 02.32375	16 09 01.56	−19 22 08.1	19.6	G	G96
315P	2018 06 02.32913	16 09 01.31	−19 22 08.3	19.6	G	G96
315P	2018 06 02.33450	16 09 01.08	−19 22 08.5	20.1	G	G96
315P	2018 06 02.33989	16 09 00.87	−19 22 08.8	19.7	G	G96
315P	2018 06 06.40770	16 06 11.759	−19 24 28.64	19.9	w	F51
315P	2018 06 06.41885	16 06 11.297	−19 24 29.05	20.0	w	F51
315P	2018 06 06.43001	16 06 10.826	−19 24 29.42	19.9	w	F51
315P	2018 06 06.44115	16 06 10.360	−19 24 29.78	19.9	w	F51
315P	2018 06 14.38788	16 01 01.242	−19 29 23.78	20.0	w	F51
315P	2018 06 14.42081	16 01 00.002	−19 29 25.07	20.0	w	F51

334P/NEAT

334P	2018 06 11.31097	14 37 29.516	+02 38 59.40	19.9	i	F52
334P	2018 06 11.32109	14 37 29.337	+02 38 57.27	20.2	i	F52
334P	2018 06 11.33121	14 37 29.150	+02 38 55.19	20.0	i	F52
334P	2018 06 11.34166	14 37 28.966	+02 38 52.97	19.9	i	F52

349P/Lemmon

349P	2018 08 08.36809	20 50 09.671	−20 39 45.19	21.6	w	F51
349P	2018 08 08.37780	20 50 09.178	−20 39 46.00	21.6	w	F51
349P	2018 08 08.38752	20 50 08.708	−20 39 46.53	21.9	w	F51
349P	2018 08 08.39724	20 50 08.228	−20 39 47.46	21.9	w	F51

350P/McNaught

350P	2018 06 03.39785	14 42 21.18	−13 01 08.6			1 Q62
350P	2018 06 03.40233	14 42 21.07	−13 01 08.7			1 Q62
350P	2018 06 03.40658	14 42 20.95	−13 01 08.6	19.3	w	1 Q62
350P	2018 06 06.32294	14 41 01.139	−13 00 27.90	20.2	w	F51
350P	2018 06 06.33402	14 41 00.836	−13 00 27.75	20.4	w	F51
350P	2018 06 06.34509	14 41 00.536	−13 00 27.68	20.3	w	F51
350P	2018 06 06.35615	14 41 00.220	−13 00 27.56	20.1	w	F51
350P	2018 06 20.92159	14 36 18.28	−13 05 36.4	19.5		K 215
350P	2018 06 20.92415	14 36 18.25	−13 05 36.8	19.3		K 215
350P	2018 06 20.92672	14 36 18.22	−13 05 36.7	18.6		K 215

361P/Spacewatch

361P	2018 08 25.21127	06 14 05.81	+13 43 43.3	17.9	N	J22
361P	2018 08 25.21916	06 14 06.67	+13 43 40.4	17.9	N	J22
361P	2018 09 13.47189	06 40 43.41	+12 03 45.5			32H06
361P	2018 09 13.47431	06 40 43.60	+12 03 44.9			32H06
361P	2018 09 13.47672	06 40 43.80	+12 03 44.2	17.6	G	32H06

364P/PANSTARRS

364P	2018 02 09.25025	10 29 57.82	+34 42 42.4			5 U69
364P	2018 02 09.25217	10 29 57.65	+34 42 43.9			5 U69
364P	2018 02 09.25410	10 29 57.48	+34 42 45.5	19.5	w	5 U69
364P	2018 05 10.18383	08 40 55.27	+29 40 16.0			5 U69
364P	2018 05 10.18565	08 40 55.34	+29 40 13.6			5 U69
364P	2018 05 10.18741	08 40 55.39	+29 40 11.4	16.7	w	5 U69
364P	2018 05 11.93002	08 42 03.00	+29 02 51.9	16.6	N	17G40
364P	2018 05 11.93174	08 42 03.09	+29 02 49.7	16.4	N	17G40
364P	2018 05 14.88943	08 44 05.53	+27 56 43.7	16.6	N	17G40
364P	2018 05 14.89234	08 44 05.60	+27 56 39.6	16.6	N	17G40
364P	2018 05 20.87079	08 48 27.55	+25 31 09.9	16.5	N	K A71
364P	2018 05 20.88711	08 48 28.31	+25 30 44.0	16.5	N	K A71
364P	2018 05 20.89577	08 48 28.66	+25 30 30.9	16.5	N	K A71
364P	2018 05 26.48559	08 52 24.64	+22 57 52.6	15.0	T	349
364P	2018 05 26.49038	08 52 24.81	+22 57 44.0			349
364P	2018 05 26.49519	08 52 24.99	+22 57 35.5			349
364P	2018 05 27.88905	08 53 18.26	+22 16 37.6	15.4	N	J22
364P	2018 05 27.89594	08 53 18.49	+22 16 24.8	15.4	N	J22
364P	2018 05 27.89822	08 53 18.55	+22 16 20.7	15.4	N	J22
364P	2018 05 30.85556	08 54 59.41	+20 44 51.9	15.3	N	K A71
364P	2018 05 30.85980	08 54 59.53	+20 44 43.7	15.4	N	K A71
364P	2018 05 30.86244	08 54 59.62	+20 44 38.6	15.3	N	K A71
364P	2018 05 30.86523	08 54 59.68	+20 44 33.4	15.2	N	K A71
364P	2018 05 30.86787	08 54 59.75	+20 44 28.0	15.4	N	K A71
364P	2018 06 01.87534	08 55 55.85	+19 38 46.2	14.9	N	213
364P	2018 06 01.87646	08 55 55.85	+19 38 44.3	14.7	N	213
364P	2018 06 01.88052	08 55 55.95	+19 38 36.0	14.9	N	213
364P	2018 06 02.28892	08 56 05.83	+19 24 56.3	14.7	o	T05
364P	2018 06 02.29818	08 56 06.02	+19 24 37.3	14.7	o	T05
364P	2018 06 02.30747	08 56 06.22	+19 24 18.1	14.7	o	T05
364P	2018 06 02.31566	08 56 06.41	+19 24 01.2	14.7	o	T05
364P	2018 06 02.84777	08 56 18.74	+19 05 46.2	15.2	N	K A71
364P	2018 06 02.85540	08 56 18.91	+19 05 29.8	15.3	N	K A71
364P	2018 06 02.85635	08 56 18.91	+19 05 27.9	14.8	N	K A71
364P	2018 06 02.85731	08 56 18.96	+19 05 25.8	14.8	N	K A71
364P	2018 06 03.85668	08 56 39.10	+18 30 41.8	15.2	N	K A71
364P	2018 06 03.86109	08 56 39.17	+18 30 32.2	14.7	N	K A71
364P	2018 06 03.87016	08 56 39.33	+18 30 13.2	15.0	N	K A71
364P	2018 06 03.87666	08 56 39.46	+18 29 59.3	15.1	N	K A71
364P	2018 06 04.85661	08 56 55.60	+17 55 04.1	14.8	N	K A71
364P	2018 06 04.85846	08 56 55.61	+17 55 00.3	14.8	N	K A71
364P	2018 06 04.86083	08 56 55.64	+17 54 55.3	14.7	N	K A71
364P	2018 06 04.87089	08 56 55.77	+17 54 33.0	14.7	N	K A71
364P	2018 06 04.87309	08 56 55.86	+17 54 28.5	14.6	N	K A71
364P	2018 06 04.87530	08 56 55.86	+17 54 23.8	14.4	N	K A71
364P	2018 06 05.36591	08 57 02.63	+17 37 00.2	15.0	G	Q38
364P	2018 06 05.37080	08 57 02.64	+17 36 49.6	15.0	G	Q38
364P	2018 06 05.37565	08 57 02.66	+17 36 38.7	15.0	G	Q38
364P	2018 06 05.88237	08 57 08.22	+17 17 41.7	14.8	N	17G40
364P	2018 06 05.88525	08 57 08.21	+17 17 34.9	14.9	N	17G40
364P	2018 06 05.88922	08 57 08.23	+17 17 26.3	14.8	N	17G40
364P	2018 06 05.89256	08 57 08.27	+17 17 19.0	14.8	N	17G40
364P	2018 06 06.26127	08 57 11.64	+17 03 38.2	14.2	o	T05
364P	2018 06 06.27258	08 57 11.70	+17 03 12.5	14.2	o	T05
364P	2018 06 06.28408	08 57 11.76	+17 02 46.3	14.2	o	T05
364P	2018 06 06.29397	08 57 11.83	+17 02 23.9	14.2	o	T05
364P	2018 06 06.87905	08 57 16.05	+16 40 18.8	14.1	N	Z39
364P	2018 06 06.88954	08 57 16.07	+16 39 54.7	14.1	N	Z39
364P	2018 06 06.89762	08 57 16.11	+16 39 36.0	14.1	N	Z39
364P	2018 06 07.51759	08 57 18.55	+16 15 48.5			K 367
364P	2018 06 07.51881	08 57 18.57	+16 15 45.8			K 367
364P	2018 06 07.52043	08 57 18.56	+16 15 41.9			K 367
364P	2018 06 07.52164	08 57 18.56	+16 15 39.0	13.7	T	K 367
364P	2018 06 07.87322	08 57 19.30	+16 02 03.8	13.9	N	Z39

364P	2018 06 07.88640	08 57 19.21	+16 01 32.4	13.8	N	Z39	364P	2018 07 01.95457	08 14 35.77	−06 08 24.7	11.0	R	I47
364P	2018 06 07.89624	08 57 19.23	+16 01 09.2	13.8	N	Z39	364P	2018 07 01.95776	08 14 34.94	−06 08 38.1	11.0	R	I47
364P	2018 06 08.25319	08 57 19.22	+15 47 13.8	14.0	o	T08	364P	2018 07 01.96095	08 14 34.08	−06 08 52.5	11.0	R	I47
364P	2018 06 08.26837	08 57 19.14	+15 46 37.5	14.0	o	T08	364P	2018 07 01.96413	08 14 33.23	−06 09 06.8	11.0	R	I47
364P	2018 06 08.27908	08 57 19.09	+15 46 11.9	14.0	o	T08	364P	2018 07 01.96732	08 14 32.36	−06 09 20.4	11.0	R	I47
364P	2018 06 08.28831	08 57 19.05	+15 45 49.9	14.0	o	T08	364P	2018 07 23.44038	05 44 20.15	−29 59 41.3	13.0	R	13W88
364P	2018 06 09.87159	08 57 10.17	+14 42 04.6	13.7	N	Z39	364P	2018 07 23.44208	05 44 19.27	−29 59 45.6	13.0	R	13W88
364P	2018 06 09.88622	08 57 09.98	+14 41 28.1	13.7	N	Z39	364P	2018 07 23.79810	05 41 20.66	−30 14 00.6	13.4	V	1 Q62
364P	2018 06 09.89644	08 57 09.78	+14 41 03.5	13.9	N	9 G40	364P	2018 07 23.79972	05 41 19.82	−30 14 04.7	13.3	V	1 Q62
364P	2018 06 09.89959	08 57 09.75	+14 40 55.6	14.0	N	9 G40	364P	2018 07 23.80135	05 41 18.99	−30 14 08.7	13.4	V	1 Q62
364P	2018 06 09.90179	08 57 09.80	+14 40 49.4	13.7	N	Z39	364P	2018 07 23.80307	05 41 18.17	−30 14 12.6	13.6	V	1 Q62
364P	2018 06 09.91000	08 57 09.64	+14 40 29.0	14.0	N	9 G40	364P	2018 07 30.31935	04 48 17.19	−33 26 14.6	13.5	N	14W88
364P	2018 06 10.24791	08 57 05.94	+14 26 34.5	14.0	c	T05	364P	2018 07 30.32089	04 48 16.59	−33 26 15.4	13.9	N	14W88
364P	2018 06 10.25168	08 57 05.87	+14 26 25.2	14.1	c	T05	364P	2018 07 30.38905	04 47 44.16	−33 27 45.9	13.7	N	14W88
364P	2018 06 10.25835	08 57 05.77	+14 26 08.4	14.0	c	T05	364P	2018 07 30.38992	04 47 43.79	−33 27 46.9	13.7	N	14W88
364P	2018 06 10.26805	08 57 05.61	+14 25 43.8	14.0	c	T05	364P	2018 08 02.38674	04 24 54.18	−34 18 03.6	14.5	N	3W88
364P	2018 06 11.87469	08 56 37.48	+13 17 27.4	13.4	N	Z39	364P	2018 08 02.39012	04 24 52.66	−34 18 07.0	14.5	N	3W88
364P	2018 06 11.87992	08 56 37.34	+13 17 13.7	13.4	N	Z39	364P	2018 08 02.39324	04 24 51.18	−34 18 09.9	14.5	N	3W88
364P	2018 06 11.89795	08 56 36.89	+13 16 26.3	13.4	N	Z39	364P	2018 08 08.38080	03 42 39.79	−35 08 13.6	14.8	N	W96
364P	2018 06 12.24252	08 56 28.64	+13 01 28.3	13.7	o	T08	364P	2018 08 08.38953	03 42 36.15	−35 08 16.1	14.7	N	W96
364P	2018 06 12.24638	08 56 28.55	+13 01 17.9	13.5	o	T08	364P	2018 08 08.39856	03 42 32.38	−35 08 19.7	14.9	N	W96
364P	2018 06 12.25224	08 56 28.38	+13 01 02.0	13.5	o	T08	364P	2018 08 08.40759	03 42 28.72	−35 08 21.2	14.7	N	W96
364P	2018 06 12.25270	08 56 28.37	+13 01 01.1	13.5	o	T08	364P	2018 08 09.68620	03 34 03.22	−35 11 57.1	15.8	G	Q38
364P	2018 06 12.26157	08 56 28.12	+13 00 37.4	13.5	o	T08	364P	2018 08 09.68866	03 34 02.22	−35 11 56.8	15.6	G	Q38
364P	2018 06 12.26203	08 56 28.10	+13 00 36.1	13.5	o	T08	364P	2018 08 09.69257	03 34 00.40	−35 11 56.7	15.5	G	Q38
364P	2018 06 12.28303	08 56 27.49	+12 59 40.6	13.5	o	T08	364P	2018 08 11.32046	03 23 31.09	−35 14 10.0	15.0	N	W96
364P	2018 06 12.35061	08 56 26.14	+12 57 00.5	13.7	N	? Q62	364P	2018 08 11.32916	03 23 27.50	−35 14 10.5	14.8	N	W96
364P	2018 06 12.35668	08 56 25.95	+12 56 44.6			? Q62	364P	2018 08 12.65970	03 15 06.00	−35 13 30.6	15.0	N	Q68
364P	2018 06 12.36094	08 56 25.81	+12 56 32.9			? Q62	364P	2018 08 12.79624	03 14 13.84	−35 13 28.1	14.9	N	Q68
364P	2018 06 13.87913	08 55 37.58	+11 47 58.6	13.6	N	9 G40	364P	2018 08 14.79589	03 02 01.96	−35 09 28.8			K 367
364P	2018 06 13.88579	08 55 37.33	+11 47 40.2	13.5	N	9 G40	364P	2018 08 14.79711	03 02 01.50	−35 09 28.6			K 367
364P	2018 06 13.88915	08 55 37.19	+11 47 30.7	13.5	N	9 G40	364P	2018 08 14.79832	03 02 01.02	−35 09 28.8	13.1	T	K 367
364P	2018 06 14.24803	08 55 23.43	+11 31 00.2	13.7	c	T05	364P	2018 08 15.59325	02 57 16.39	−35 06 36.3	15.5	c	T05
364P	2018 06 14.25086	08 55 23.28	+11 30 52.1	13.6	c	T05	364P	2018 08 15.60112	02 57 13.30	−35 06 35.2	15.4	c	T05
364P	2018 06 14.25669	08 55 23.05	+11 30 35.8	13.6	c	T05	364P	2018 08 15.60908	02 57 10.34	−35 06 33.4	15.3	c	T05
364P	2018 06 14.26528	08 55 22.68	+11 30 11.7	13.6	c	T05	364P	2018 08 15.69678	02 56 40.87	−35 05 41.0	15.4	N	323
364P	2018 06 14.87917	08 54 56.48	+11 01 24.5	13.3	N	9 G40	364P	2018 08 15.69889	02 56 40.17	−35 05 40.6	15.5	N	323
364P	2018 06 14.88575	08 54 56.12	+11 01 05.9	13.4	N	9 G40	364P	2018 08 16.63188	02 51 10.90	−35 01 36.7	15.3	N	Q68
364P	2018 06 14.88920	08 54 56.00	+11 00 56.1	13.5	N	9 G40	364P	2018 08 16.69025	02 50 50.02	−35 01 23.6	15.2	N	Q68
364P	2018 06 15.87918	08 54 07.16	+10 13 31.2	13.3	N	9 G40	364P	2018 08 17.62524	02 45 25.99	−34 56 25.4	15.3	N	Q68
364P	2018 06 15.88221	08 54 06.94	+10 13 21.9	13.3	N	9 G40	364P	2018 08 17.69306	02 45 02.17	−34 56 06.8	15.3	N	Q68
364P	2018 06 15.88567	08 54 06.78	+10 13 11.6	13.3	N	9 G40	364P	2018 08 18.21232	02 42 03.84	−34 53 29.8	15.9	N	9 G40
364P	2018 06 16.49097	08 53 32.80	+09 43 28.4			K 367	364P	2018 08 18.21559	02 42 02.70	−34 53 28.5	15.8	N	9 G40
364P	2018 06 16.49259	08 53 32.69	+09 43 23.6			K 367	364P	2018 08 19.61168	02 34 12.71	−34 43 38.7	15.5	N	Q68
364P	2018 06 16.49381	08 53 32.63	+09 43 20.0	11.8	T	K 367	364P	2018 08 19.70066	02 33 42.33	−34 43 05.2	15.4	N	Q68
364P	2018 06 17.96766	08 51 55.77	+08 29 20.8	12.3	R	K I47	364P	2018 08 20.30608	02 30 21.72	−34 38 37.4	15.5	N	W96
364P	2018 06 17.97516	08 51 55.18	+08 28 57.5	12.3	R	K I47	364P	2018 08 20.33256	02 30 12.66	−34 38 26.1	15.5	N	W96
364P	2018 06 17.98445	08 51 54.49	+08 28 28.5	12.3	R	K I47	364P	2018 08 21.30625	02 24 54.47	−34 30 26.6	15.1	N	13W88
364P	2018 06 18.95811	08 50 38.63	+07 37 30.5	13.3	N	3W88	364P	2018 08 21.31975	02 24 49.98	−34 30 19.9	15.2	N	13W88
364P	2018 06 18.95905	08 50 38.57	+07 37 26.9	13.2	N	3W88	364P	2018 08 23.14766	02 15 06.19	−34 14 01.9	15.7	N	J22
364P	2018 06 19.95072	08 49 11.13	+06 44 04.2	13.1	N	3W88	364P	2018 08 23.15022	02 15 05.40	−34 14 00.5	15.7	N	J22
364P	2018 06 19.95929	08 49 10.27	+06 43 35.9	13.2	N	3W88	364P	2018 08 23.15275	02 15 04.62	−34 13 59.7	15.7	N	J22
364P	2018 06 19.96535	08 49 09.70	+06 43 15.5	13.2	N	3W88	364P	2018 08 25.77088	02 01 38.59	−33 46 14.3	13.9	T	349

364P	2018 08 25.77770	02 01 36.42	−33 46 10.3			349
364P	2018 08 26.78716	01 56 35.65	−33 34 19.6	14.0	T	349
364P	2018 08 26.79544	01 56 33.15	−33 34 13.3			349
364P	2018 08 31.50359	01 34 25.93	−32 31 26.6	16.8	o	T05
364P	2018 08 31.51137	01 34 23.76	−32 31 20.1	16.8	o	T05
364P	2018 08 31.51319	01 34 23.23	−32 31 18.2	16.8	o	T05
364P	2018 08 31.52784	01 34 19.10	−32 31 05.5	16.6	o	T05
364P	2018 09 02.59001	01 25 17.54	−31 59 45.6	16.7	N	323
364P	2018 09 02.60707	01 25 13.11	−31 59 31.0	16.8	N	323
364P	2018 09 04.05979	01 19 04.84	−31 36 59.1	16.2	N	J22
364P	2018 09 04.06053	01 19 04.60	−31 36 58.8	16.2	N	J22
364P	2018 09 04.06124	01 19 04.43	−31 36 58.5	16.2	N	J22
364P	2018 09 05.29945	01 13 59.78	−31 16 35.0	16.9	N	W96
364P	2018 09 05.32863	01 13 52.41	−31 16 06.2	16.4	N	W96
364P	2018 09 05.57258	01 12 55.41	−31 11 55.0	17.0	N	323
364P	2018 09 05.59824	01 12 49.16	−31 11 30.6	16.8	N	323
364P	2018 09 06.47724	01 09 19.56	−30 57 07.1	16.8	o	T08
364P	2018 09 06.48809	01 09 16.90	−30 56 56.3	16.7	o	T08
364P	2018 09 06.49270	01 09 15.78	−30 56 51.6	16.7	o	T08
364P	2018 09 06.50145	01 09 13.66	−30 56 43.0	16.8	o	T08
364P	2018 09 07.60920	01 04 57.58	−30 37 29.3	17.0	G	Q38
364P	2018 09 07.61166	01 04 57.01	−30 37 25.8	16.9	G	Q38
364P	2018 09 07.61412	01 04 56.43	−30 37 23.5	16.8	G	Q38
364P	2018 09 07.61608	01 04 56.03	−30 37 21.9	17.1	G	Q38
364P	2018 09 08.26099	01 02 29.60	−30 26 14.1	16.8	N	W96
364P	2018 09 08.28850	01 02 23.12	−30 25 44.5	16.6	N	W96
364P	2018 09 08.47120	01 01 42.85	−30 22 46.2	17.0	o	T05
364P	2018 09 08.48300	01 01 40.13	−30 22 34.1	17.0	o	T05
364P	2018 09 08.48620	01 01 39.37	−30 22 30.5	17.1	o	T05
364P	2018 09 08.49535	01 01 37.25	−30 22 21.0	17.1	o	T05
364P	2018 09 10.53623	00 54 15.14	−29 45 41.9	16.8	N	Q68
364P	2018 09 10.65010	00 53 50.36	−29 43 40.0	16.9	N	Q68
364P	2018 09 12.64755	00 47 02.39	−29 07 05.2	16.9	N	Q68
364P	2018 09 12.65162	00 47 01.63	−29 07 00.8	17.2	N	Q68
364P	2018 09 14.44508	00 41 16.14	−28 33 47.2	17.0	o	T08
364P	2018 09 14.44692	00 41 15.46	−28 33 43.7	16.7	o	T08
364P	2018 09 14.46259	00 41 12.72	−28 33 27.4	17.1	o	T08
364P	2018 09 14.56821	00 40 53.31	−28 31 13.2	17.0	N	Q68
364P	2018 09 14.65210	00 40 37.07	−28 29 38.7	17.1	N	Q68
364P	2018 09 15.32112	00 38 33.33	−28 17 04.9	17.0	N	W96
364P	2018 09 15.35405	00 38 27.15	−28 16 25.2	16.8	N	W96
364P	2018 09 16.51219	00 35 00.91	−27 54 39.0	17.4	o	T05
364P	2018 09 16.52250	00 34 59.04	−27 54 27.5	17.4	o	T05
364P	2018 09 16.53215	00 34 57.27	−27 54 16.5	17.4	o	T05
364P	2018 09 16.54236	00 34 55.40	−27 54 04.2	17.4	o	T05

365P/PANSTARRS

365P	2018 04 18.96608	13 15 46.47	+17 59 53.6	18.6	N	K 160
365P	2018 04 18.96847	13 15 46.36	+17 59 51.5	18.6	N	K 160
365P	2018 04 18.97087	13 15 46.30	+17 59 49.0	17.9	N	K 160
365P	2018 06 02.28167	13 26 01.750	+03 48 09.82	20.5	w	F51
365P	2018 06 02.29325	13 26 02.223	+03 47 57.30	20.6	w	F51
365P	2018 06 02.30464	13 26 02.679	+03 47 44.98	20.5	w	F51
365P	2018 06 02.31600	13 26 03.145	+03 47 32.69	20.5	w	F51

368P/NEAT

368P	2018 06 06.19687	23 46 43.81	+14 34 30.1	19.3	N	17G40
368P	2018 06 06.21044	23 46 45.14	+14 34 42.7	19.3	N	17G40
368P	2018 06 11.41616	23 55 21.04	+15 57 11.8			32H06
368P	2018 06 11.41860	23 55 21.25	+15 57 14.5			32H06
368P	2018 06 11.42104	23 55 21.49	+15 57 16.8	20.3	w	32H06
368P	2018 06 13.18958	23 58 16.14	+16 25 18.4	19.4	N	K J04
368P	2018 06 13.19712	23 58 16.88	+16 25 25.6	19.5	N	K J04
368P	2018 06 13.20466	23 58 17.61	+16 25 32.7	19.4	N	K J04
368P	2018 06 14.17683	23 59 53.47	+16 40 56.8	19.3	N	K J04
368P	2018 06 14.18437	23 59 54.20	+16 41 04.0	19.2	N	K J04
368P	2018 06 14.19191	23 59 54.89	+16 41 10.9	19.1	N	K J04
368P	2018 06 18.16199	00 06 24.87	+17 44 02.5	20.0	T	9 G40
368P	2018 06 18.17389	00 06 26.04	+17 44 12.8	20.1	T	9 G40
368P	2018 06 20.04478	00 09 28.94	+18 13 44.6	19.5		K 215
368P	2018 06 20.04607	00 09 29.09	+18 13 46.1	19.5		K 215
368P	2018 06 20.04735	00 09 29.25	+18 13 47.2	19.5		K 215
368P	2018 06 23.39784	00 14 55.51	+19 06 35.0	19.1	G	703
368P	2018 06 23.40830	00 14 56.50	+19 06 43.6	18.3	G	703
368P	2018 06 23.41353	00 14 57.09	+19 06 47.7	18.8	G	703
368P	2018 07 11.55565	00 43 41.896	+23 46 19.25	20.1	w	F52
368P	2018 07 11.56553	00 43 42.799	+23 46 28.17	20.0	w	F52
368P	2018 07 13.00774	00 45 55.72	+24 07 57.5	20.7	N	K K77
368P	2018 07 13.00925	00 45 55.95	+24 07 59.2	20.6	N	K K77
368P	2018 07 24.42117	01 02 55.31	+26 52 46.5	19.2	V	691
368P	2018 07 24.43430	01 02 56.44	+26 52 57.2	19.8	V	691
368P	2018 07 24.44773	01 02 57.60	+26 53 09.0	19.7	V	691
368P	2018 08 03.01018	01 16 16.19	+29 01 34.1	18.9	R	K 628
368P	2018 08 03.04552	01 16 19.04	+29 01 59.5	18.5	R	K 628
368P	2018 08 06.01128	01 20 13.31	+29 39 38.7	19.0	R	K 628
368P	2018 08 06.04134	01 20 15.62	+29 40 01.3	18.7	R	K 628
368P	2018 08 06.07242	01 20 18.01	+29 40 24.8	18.8	R	K 628
368P	2018 08 06.10161	01 20 20.18	+29 40 46.8	18.8	R	K 628
368P	2018 08 12.87875	01 28 45.92	+31 01 58.8	17.7	R	K 628
368P	2018 08 12.91231	01 28 48.31	+31 02 22.5	18.5	R	K 628
368P	2018 08 12.94592	01 28 50.75	+31 02 45.6	18.7	R	K 628
368P	2018 08 12.97943	01 28 53.08	+31 03 08.9	18.3	R	K 628
368P	2018 08 19.04934	01 35 45.28	+32 09 28.7	18.6	T	461
368P	2018 08 19.06217	01 35 46.06	+32 09 36.7	18.9	T	461
368P	2018 08 19.07507	01 35 46.89	+32 09 44.9	18.8	T	461
368P	2018 08 21.14297	01 37 57.71	+32 30 49.9	18.5	T	20G40
368P	2018 08 21.14587	01 37 57.90	+32 30 51.5	17.9	T	20G40
368P	2018 08 22.01001	01 38 51.06	+32 39 20.9	18.7	N	J22
368P	2018 08 22.01402	01 38 51.42	+32 39 22.7	18.7	N	J22
368P	2018 08 22.04647	01 38 53.19	+32 39 43.9	18.7	T	461
368P	2018 08 22.05928	01 38 53.92	+32 39 51.5	19.0	T	461
368P	2018 08 22.06510	01 38 54.24	+32 39 54.9	18.8	N	K77
368P	2018 08 22.07217	01 38 54.71	+32 39 58.9	19.0	T	461
368P	2018 08 22.07378	01 38 54.88	+32 39 58.8	18.7	N	K77
368P	2018 09 04.59045	01 50 31.03	+34 32 28.4	18.2	o	T08

368P	2018 09 04.60045	01 50 31.47	+34 32 33.4	18.5	o	T08
368P	2018 09 04.60299	01 50 31.41	+34 32 33.0	18.2	o	T08
368P	2018 09 04.61797	01 50 32.06	+34 32 39.7	18.3	o	T08
368P	2018 09 05.41864	01 51 04.72	+34 37 52.8	17.7	G	703
368P	2018 09 05.42437	01 51 05.01	+34 37 55.7	17.9	G	703
368P	2018 09 05.42996	01 51 05.23	+34 37 57.9	17.9	G	703
368P	2018 09 05.43571	01 51 05.45	+34 38 00.0	18.2	G	703
368P	2018 09 08.57148	01 53 02.68	+34 56 57.4	18.4	o	T08
368P	2018 09 08.58150	01 53 03.02	+34 57 00.7	18.2	o	T08
368P	2018 09 08.59986	01 53 03.62	+34 57 06.7	18.3	o	T08
368P	2018 09 08.60296	01 53 03.72	+34 57 08.0	18.3	o	T08
368P	2018 09 10.56986	01 54 08.81	+35 07 33.1	17.8	o	T05
368P	2018 09 10.58029	01 54 09.11	+35 07 36.3	18.0	o	T05
368P	2018 09 10.59795	01 54 09.59	+35 07 40.9	17.9	o	T05
368P	2018 09 10.60112	01 54 09.73	+35 07 42.7	18.6	o	T05
368P	2018 09 11.98149	01 54 51.61	+35 14 15.4	18.0	R	113
368P	2018 09 11.98824	01 54 51.77	+35 14 16.9	18.0	R	113
368P	2018 09 11.99500	01 54 51.99	+35 14 19.1	18.0	R	113
368P	2018 09 12.00215	01 54 52.15	+35 14 20.5	17.9	R	113
368P	2018 09 14.57712	01 56 00.54	+35 25 08.1	18.3	c	T05
368P	2018 09 14.58700	01 56 00.77	+35 25 11.1	19.0	c	T05
368P	2018 09 14.58882	01 56 00.91	+35 25 11.7	18.6	c	T05
368P	2018 09 14.60571	01 56 01.24	+35 25 14.5	18.7	c	T05
368P	2018 09 15.94943	01 56 32.97	+35 29 56.2	18.3	R	K 628
368P	2018 09 15.96647	01 56 33.32	+35 29 59.6	18.4	N	K77
368P	2018 09 15.98523	01 56 33.67	+35 30 03.7	17.3	R	K 628
368P	2018 09 16.00889	01 56 34.20	+35 30 09.8	18.1	N	K77
368P	2018 09 16.02117	01 56 34.42	+35 30 11.1	17.7	R	K 628

369P/Hill

369P	2018 08 10.18050	03 57 28.00	+17 38 53.3	19.0	N	K J04
369P	2018 08 10.18502	03 57 28.54	+17 38 56.0	19.1	N	K J04
369P	2018 08 10.18804	03 57 28.90	+17 38 57.6	19.0	N	K J04
369P	2018 08 12.294506	04 01 41.519	+17 58 57.94	20.7	G	K Y28
369P	2018 08 12.297008	04 01 41.825	+17 58 59.30	19.6	G	K Y28
369P	2018 08 12.299473	04 01 42.116	+17 59 00.74	20.6	G	K Y28
369P	2018 08 13.02436	04 03 08.96	+18 05 45.2	19.9	G	K C47
369P	2018 08 13.03117	04 03 09.75	+18 05 48.9	18.9	G	K C47
369P	2018 08 13.03833	04 03 10.60	+18 05 53.2	19.4	G	K C47
369P	2018 08 13.04549	04 03 11.44	+18 05 57.5	20.1	G	K C47
369P	2018 08 13.10071	04 03 18.01	+18 06 28.5	19.5	N	K 198
369P	2018 08 13.10438	04 03 18.46	+18 06 30.8	19.4	N	K 198
369P	2018 08 13.11026	04 03 19.21	+18 06 33.9	19.5	N	K 198
369P	2018 08 13.38080	04 03 51.56	+18 09 05.9	18.9	N	K 850
369P	2018 08 13.39378	04 03 53.11	+18 09 13.3	19.0	N	K 850
369P	2018 08 13.40780	04 03 54.78	+18 09 21.6	19.0	N	K 850
369P	2018 08 19.17126	04 15 21.94	+19 02 24.0	18.6	N	9 G40
369P	2018 08 19.21894	04 15 27.48	+19 02 50.5	18.9	N	9 G40
369P	2018 08 21.11356	04 19 11.96	+19 19 53.1	19.3	R	K 215
369P	2018 08 21.11612	04 19 12.26	+19 19 54.3	19.1	R	K 215
369P	2018 08 21.11869	04 19 12.55	+19 19 55.5	18.7	R	K 215
369P	2018 09 08.24719	04 54 03.53	+21 55 03.0	18.7	N	J22
369P	2018 09 08.25067	04 54 03.76	+21 55 03.5	18.7	N	J22
369P	2018 09 08.25230	04 54 04.03	+21 55 04.6	18.7	N	J22
369P	2018 09 08.29164	04 54 07.98	+21 55 25.2	19	R	C51
Geocentric position (km)		− 1738.1495	+ 6226.9384	+ 2278.1926		
369P	2018 09 08.42242	04 54 22.22	+21 56 28.1			C51
Geocentric position (km)		− 1754.7743	+ 6200.2434	+ 2337.2354		
369P	2018 09 08.55281	04 54 37.17	+21 57 32.4			C51
Geocentric position (km)		− 1778.6269	+ 6075.3753	+ 2627.7415		
369P	2018 09 08.68422	04 54 51.71	+21 58 37.0			C51
Geocentric position (km)		− 1781.4338	+ 6207.1783	+ 2298.5488		
369P	2018 09 08.81513	04 55 06.26	+21 59 42.8			C51
Geocentric position (km)		− 1794.7827	+ 6210.4639	+ 2279.3202		
369P	2018 09 08.94590	04 55 20.63	+22 00 46.5			C51
Geocentric position (km)		− 1811.1604	+ 6183.6237	+ 2338.3273		
369P	2018 09 09.01135	04 55 27.97	+22 01 19.0			C51
Geocentric position (km)		− 1817.8392	+ 6185.3114	+ 2328.7150		
369P	2018 09 09.07681	04 55 35.32	+22 01 51.8			C51
Geocentric position (km)		− 1824.5230	+ 6186.9689	+ 2319.1282		
369P	2018 09 09.14226	04 55 42.40	+22 02 22.0			C51
Geocentric position (km)		− 1831.2050	+ 6188.6140	+ 2309.4965		
369P	2018 09 09.45802	04 56 17.88	+22 04 56.8	18.4	G	G96
369P	2018 09 09.46700	04 56 18.77	+22 05 01.1	18.1	G	G96
369P	2018 09 09.47631	04 56 19.84	+22 05 05.9	18.3	G	G96
369P	2018 09 09.48144	04 56 20.37	+22 05 08.7	18.3	G	G96
369P	2018 09 09.66574	04 56 40.56	+22 06 40.7			C51
Geocentric position (km)		− 1887.4879	+ 6171.2295	+ 2310.8059		
369P	2018 09 12.10846	05 01 08.83	+22 26 29.4	19.2	N	K77
369P	2018 09 12.11060	05 01 09.05	+22 26 30.5	19.5	N	K77

370P/NEAT

370P	2018 08 10.19601	05 51 36.15	+27 48 20.5	18.8	N	K J04
370P	2018 08 10.20355	05 51 37.01	+27 48 23.0	18.8	N	K J04
370P	2018 08 10.21109	05 51 37.86	+27 48 26.1	19.0	N	K J04
370P	2018 08 12.313155	05 55 38.419	+28 01 00.42	20.8	G	K Y28
370P	2018 08 12.315624	05 55 38.711	+28 01 00.90	20.4	G	K Y28
370P	2018 08 20.20754	06 10 29.21	+28 45 57.7	18.9	N	9 G40
370P	2018 08 20.22445	06 10 31.02	+28 46 03.0			9 G40
370P	2018 09 08.43824	06 44 52.31	+30 25 24.4	19.0	G	703
370P	2018 09 08.44820	06 44 53.36	+30 25 27.5	19.4	G	703
370P	2018 09 08.45318	06 44 54.00	+30 25 28.8	19.5	G	703
370P	2018 09 09.09887	06 46 00.00	+30 28 40.4			K 215
370P	2018 09 09.10143	06 46 00.30	+30 28 41.1	19.2	R	K 215
370P	2018 09 09.10400	06 46 00.46	+30 28 43.1	19.3	R	K 215
370P	2018 09 18.11865	07 00 53.82	+31 13 00.9	19.9	N	K77
370P	2018 09 18.12218	07 00 54.21	+31 13 00.6	19.8	N	K77

371P/LINEAR-Skiff

371P	2010 10 07.44318	06 48 01.56	+26 51 00.4			32H06
371P	2010 10 07.44803	06 48 01.78	+26 51 01.6	21.1	G	32H06
371P	2018 08 15.68958	01 58 53.43	−12 51 16.9			1 Q62
371P	2018 08 15.69285	01 58 53.58	−12 51 16.8	20.4	G	1 Q62
371P	2018 09 07.08501	02 08 16.55	−13 25 56.0	19.8	G	K J04
371P	2018 09 07.14283	02 08 16.67	−13 26 02.4	19.8	G	K J04
371P	2018 09 07.20030	02 08 16.83	−13 26 08.6	19.9	G	K J04
371P	2018 09 08.11194	02 08 20.48	−13 27 49.1	19.1	G	K J04

371P	2018 09 08.21684	02 08 20.60	−13 28 00.4	20.0	G	K	J04
371P	2018 09 12.05032	02 08 17.40	−13 34 45.1	19.6	N	K	K77
371P	2018 09 12.06744	02 08 17.33	−13 34 49.6	19.7	N	K	K77
371P	2018 09 17.17860	02 07 29.24	−13 42 30.4	19.8	N	9	G40
371P	2018 09 17.19503	02 07 28.95	−13 42 31.9	19.9	N	9	G40

372P/McNaught

372P	2018 08 08.49618	23 22 21.310	−00 12 55.59	22.4	w		F51
372P	2018 08 08.51981	23 22 20.731	−00 12 55.34	22.2	w		F51
372P	2018 08 08.53163	23 22 20.458	−00 12 55.41	22.4	w		F51
372P	2018 09 06.12801	23 06 56.032	−00 43 46.02	21.9	G	16	309
372P	2018 09 06.12921	23 06 55.998	−00 43 45.73	21.9	G	16	309
372P	2018 09 06.13042	23 06 55.932	−00 43 45.85	21.7	G	16	309
372P	2018 09 06.13162	23 06 55.894	−00 43 46.06	21.9	G	16	309
372P	2018 09 06.13283	23 06 55.844	−00 43 46.47	21.7	G	16	309
372P	2018 09 06.13404	23 06 55.807	−00 43 46.36	21.7	G	16	309
372P	2018 09 06.13528	23 06 55.767	−00 43 46.33	21.8	G	16	309
372P	2018 09 06.13648	23 06 55.717	−00 43 46.76	21.5	G	16	309
372P	2018 09 06.13890	23 06 55.615	−00 43 46.69	21.7	G	16	309

373P/Rinner

373P	2018 09 09.02974	03 06 27.51	+24 02 09.2	21.1	N	K	C10
373P	2018 09 09.04837	03 06 28.04	+24 02 09.2	21.2	N	K	C10
373P	2018 09 09.06701	03 06 28.61	+24 02 09.2	21.0	N	K	C10
373P	2018 09 12.04009	03 07 48.59	+24 01 16.5	21.3	N	K	C10
373P	2018 09 12.09095	03 07 49.80	+24 01 14.3	20.9	N	K	C10
373P	2018 09 12.09105	03 07 49.81	+24 01 14.7	21.0	N	K	C10
373P	2018 09 12.14212	03 07 51.10	+24 01 13.1	21.4	N	K	C10
373P	2018 09 14.11274	03 08 37.35	+23 59 56.0	20.4	T	K	461
373P	2018 09 14.12567	03 08 37.68	+23 59 54.9	20.4	T	K	461
373P	2018 09 16.06340	03 09 18.16	+23 58 04.5	20.6	T	K	461
373P	2018 09 16.07958	03 09 18.42	+23 58 03.9	20.5	T	K	461
373P	2018 09 17.98137	03 09 53.03	+23 55 38.9	20.6	N	K	C10
373P	2018 09 18.01079	03 09 53.53	+23 55 36.5	20.7	N	K	C10
373P	2018 09 18.04028	03 09 54.03	+23 55 34.2	20.6	N	K	C10

374P/Larson

374P	2018 08 17.03133	02 31 55.30	+17 58 54.9	20.3	T	K	461
374P	2018 08 17.04428	02 31 55.73	+17 59 00.3	20.4	T	K	461
374P	2018 08 18.04151	02 32 34.23	+18 06 07.7	20.6	T	K	461
374P	2018 08 18.05365	02 32 34.67	+18 06 12.2	20.3	T	K	461
374P	2018 09 14.08872	02 42 47.01	+21 00 11.2	19.7	T	K	461
374P	2018 09 14.09681	02 42 47.02	+21 00 13.6	19.8	T	K	461
374P	2018 09 14.10488	02 42 47.07	+21 00 16.7	19.9	T	K	461
374P	2018 09 17.99674	02 42 56.50	+21 21 40.4	19.4	T	K	461
374P	2018 09 18.00649	02 42 56.51	+21 21 43.6	20.2	T	K	461
374P	2018 09 18.01623	02 42 56.50	+21 21 46.6	19.6	T	K	461

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

304 Las Campanas Observatory. Observer S. S. Sheppard. Measurers S. S. Sheppard, M. Brozovic, R. Jacobson. 6.5-m Magellan-Baade telescope + CCD.

568 Mauna Kea. Observers S. S. Sheppard, D. J. Tholen, C. Trujillo. 8.2-m Subaru Telescope + CCD.

807 Cerro Tololo. Observers S. S. Sheppard, C. Trujillo. Measurers S. S. Sheppard, M. Brozovic, R. Jacobson. 4.0-m CTIO reflector + 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. 1.04-m $f/1.8$ Schmidt + CCD.

F51 Pan-STARRS 1, Haleakala. Observers J. Bulger, T. Lowe, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Magnier, Y. Ramanjooloo, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chrétien + CCD.

G37 Lowell Observatory-Discovery Channel Telescope. Observer C. Trujillo. 4-m Discovery Channel Telescope + CCD.

G40 Slooh.com Canary Islands Observatory. Observers K. Dankov, B. Lütkenhöner. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD.

I41 Palomar Mountain–ZTF. Measurers Q.-Z. Ye, F. Masci. 1.2-m $f/2.4$ Schmidt + ZTF camera.

T05 ATLAS-HKO, Haleakala. Observers L. Denneau, H. Flewelling, A. Heinze, H. Weiland, J. Tonry. Measurers L. Denneau, H. Flewelling, A. Heinze, J. Tonry, A. Fitzsimmons, D. Young. 0.5-m $f/2.0$ Schmidt + CCD.

T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, H. Flewelling, A. Heinze, H. Weiland, J. Tonry. Measurers L. Denneau, H. Flewelling, A. Heinze, J. Tonry, A. Fitzsimmons, D. Young. 0.5-m $f/2.0$ Schmidt + CCD.

T12 Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m). Observer D. J. Tholen. 2.24-m $f/10.1$ reflector + CCD.

W88 Slooh.com Chile Observatory, La Dehesa. Observers G. Gašparović, Y. Chen. Measurers G. Gašparović, Y. Chen, G. Y. Gasparovic. 0.35-m $f/11$ Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
S/2003 J 16	2017 03	23.25159	13 19 35.45	−06 01 08.1	23.3 r		807
S/2003 J 16	2017 03	23.27395	13 19 34.95	−06 01 05.2	23.2 r		807
S/2003 J 16	2017 03	26.27648	13 18 26.81	−05 54 21.3	23.2 r		807
S/2003 J 16	2017 03	26.32458	13 18 25.65	−05 54 14.7	23.3 r		807
S/2003 J 16	2017 04	23.18968	13 06 37.20	−04 52 43.0	23.2 r		304
S/2003 J 16	2017 04	23.31024	13 06 34.05	−04 52 28.6	23.2 r		304
S/2003 J 19	2017 02	24.56197	13 19 04.94	−07 02 39.0	23.9 r	5	568
S/2003 J 19	2017 02	24.62272	13 19 03.95	−07 02 32.0	23.9 r	5	568
S/2003 J 19	2017 03	23.24858	13 09 06.40	−05 52 38.7	23.6 r	23	807
S/2003 J 19	2017 03	23.27130	13 09 05.72	−05 52 34.2	23.7 r	23	807
S/2003 J 19	2017 03	26.28417	13 07 40.77	−05 42 56.1	23.5 r	23	807
S/2003 J 19	2017 03	26.32711	13 07 39.51	−05 42 47.5	23.4 r	23	807
S/2003 J 19	2017 04	22.09793	12 54 44.88	−04 16 09.3	23.5 r		304
S/2003 J 19	2017 04	22.12753	12 54 44.08	−04 16 03.9	23.4 r		304
S/2003 J 19	2017 04	23.11127	12 54 17.71	−04 13 08.9	23.4 r		304
S/2003 J 19	2017 04	23.13342	12 54 17.10	−04 13 04.9	23.5 r		304
S/2003 J 19	2018 05	11.16318	15 12 34.009	−16 10 56.64	23.5 r	23	807
S/2003 J 19	2018 05	11.18342	15 12 33.372	−16 10 54.31	23.8 r	23	807
S/2003 J 19	2018 05	12.15229	15 12 03.114	−16 09 11.31	23.4 r	23	807
S/2003 J 19	2018 05	12.17423	15 12 02.430	−16 09 08.98	23.5 r	23	807
S/2011 J 1	2017 03	23.24858	13 07 34.63	−05 51 48.0	23.8 r	23	807
S/2011 J 1	2017 03	23.27130	13 07 33.99	−05 51 44.6	23.7 r	23	807

S/2011 J 1	2017 03 26.28417	13 06 11.14	−05 43 43.0	23.8	r	23 807
S/2011 J 1	2017 03 26.32711	13 06 09.90	−05 43 35.9	23.7	r	23 807
S/2011 J 1	2017 04 22.10041	12 53 32.92	−04 31 07.3	23.7	r	304
S/2011 J 1	2017 04 22.13007	12 53 32.11	−04 31 02.9	23.7	r	304
S/2011 J 1	2017 04 23.14824	12 53 05.47	−04 28 32.6	23.7	r	304
S/2011 J 1	2017 04 23.16896	12 53 04.91	−04 28 29.5	23.7	r	304
S/2011 J 1	2017 04 26.24565	12 51 46.56	−04 21 09.4	23.7	r	304
S/2011 J 1	2017 04 26.28179	12 51 45.63	−04 21 04.0	23.8	r	304
S/2011 J 1	2018 05 11.16318	15 10 56.734	−16 18 54.04	23.7	r	23 807
S/2011 J 1	2018 05 11.18342	15 10 56.068	−16 18 51.10	23.9	r	23 807
S/2011 J 1	2018 05 12.15229	15 10 24.895	−16 16 37.01	23.8	r	23 807
S/2011 J 1	2018 05 12.17423	15 10 24.197	−16 16 33.97	23.7	r	23 807
S/2016 J 2	2016 03 09.27415	11 12 07.64	+06 28 58.0	23.8	r	304
S/2016 J 2	2016 03 09.29219	11 12 07.07	+06 29 01.1	23.8	r	304
S/2016 J 2	2016 03 10.20686	11 11 39.16	+06 31 19.9			304
S/2016 J 2	2016 03 10.28318	11 11 36.75	+06 31 31.4			304
S/2016 J 2	2017 03 23.25159	13 21 32.17	−06 27 47.3	24.1	r	23 807
S/2016 J 2	2017 03 23.27395	13 21 31.59	−06 27 43.2	24.2	r	23 807
S/2016 J 2	2017 03 26.32458	13 20 13.87	−06 17 56.0	24.2	r	23 807
S/2016 J 2	2017 04 22.25148	13 07 23.82	−04 48 04.0	24.1	r	304
S/2016 J 2	2017 04 22.28980	13 07 22.72	−04 47 56.5	24.1	r	304
S/2016 J 2	2017 04 23.29035	13 06 53.83	−04 44 47.5	24.0	r	304
S/2016 J 2	2017 04 23.30354	13 06 53.44	−04 44 44.6	24.0	r	304
S/2016 J 2	2017 06 13.26496	12 51 26.55	−03 25 32.4			5 568
S/2016 J 2	2017 06 13.27228	12 51 26.51	−03 25 32.4			5 568
S/2016 J 2	2017 06 13.27959	12 51 26.47	−03 25 32.8			5 568
S/2016 J 2	2017 06 13.28690	12 51 26.44	−03 25 32.9			5 568
S/2016 J 2	2018 04 13.18963	15 12 27.607	−17 17 33.11	23.9	r	23 807
S/2016 J 2	2018 04 13.19587	15 12 27.500	−17 17 32.47	23.8	r	23 807
S/2016 J 2	2018 05 16.14343	14 59 01.878	−16 07 47.20	23.9	r	304
S/2016 J 2	2018 05 16.16811	14 59 01.237	−16 07 43.93	23.9	r	304
S/2016 J 2	2018 05 16.20043	14 59 00.384	−16 07 39.57	23.8	r	304
S/2016 J 2	2018 05 16.22420	14 58 59.768	−16 07 36.33	23.9	r	304
S/2017 J 2	2016 02 05.64942	11 37 37.37	+04 03 55.5	23.5	r	5 568
S/2017 J 2	2016 02 05.66018	11 37 37.16	+04 03 56.2	23.5	r	5 568
S/2017 J 2	2017 02 24.56197	13 21 41.87	−06 41 30.3	23.6	r	5 568
S/2017 J 2	2017 02 24.62272	13 21 41.21	−06 41 24.8	23.5	r	5 568
S/2017 J 2	2017 03 23.24858	13 13 45.13	−05 41 46.5	23.5	r	23 807
S/2017 J 2	2017 03 23.27130	13 13 44.56	−05 41 43.0	23.7	r	23 807
S/2017 J 2	2017 03 26.28417	13 12 31.29	−05 33 16.9	23.4	r	23 807
S/2017 J 2	2017 03 26.32711	13 12 30.19	−05 33 09.5	23.5	r	23 807
S/2017 J 2	2017 04 23.09729	13 00 37.29	−04 15 13.0	23.4	r	304
S/2017 J 2	2017 04 23.12258	13 00 36.70	−04 15 09.4	23.5	r	304
S/2017 J 2	2017 04 26.10341	12 59 26.42	−04 07 50.4	23.5	r	304
S/2017 J 2	2017 04 26.12899	12 59 25.83	−04 07 46.7	23.5	r	304
S/2017 J 2	2018 05 18.26245	14 54 46.058	−15 44 42.41	24.4	r	304
S/2017 J 2	2018 05 18.28197	14 54 45.414	−15 44 39.76	24.3	r	304
S/2017 J 2	2018 05 19.13679	14 54 17.309	−15 42 48.90	24.2	r	304
S/2017 J 2	2018 05 19.16165	14 54 16.463	−15 42 45.51	24.2	r	304
S/2017 J 3	2016 02 05.64942	11 37 40.05	+04 13 10.2	23.5	r	5 568
S/2017 J 3	2016 02 05.66018	11 37 39.84	+04 13 11.2	23.5	r	5 568
S/2017 J 3	2017 02 24.62272	13 21 44.71	−06 27 01.6	23.4	r	5 568
S/2017 J 3	2017 03 23.24858	13 14 12.07	−05 22 10.9	23.8	r	23 807
S/2017 J 3	2017 03 23.27130	13 14 11.54	−05 22 06.9	23.5	r	23 807
S/2017 J 3	2017 03 26.28417	13 13 01.37	−05 13 15.6	23.4	r	23 807
S/2017 J 3	2017 03 26.32711	13 13 00.31	−05 13 07.8	23.5	r	23 807
S/2017 J 3	2017 04 22.09198	13 02 00.77	−03 56 00.8	23.4	r	304
S/2017 J 3	2017 04 22.12247	13 02 00.04	−03 55 56.3	23.4	r	304
S/2017 J 3	2017 04 23.10848	13 01 37.18	−03 53 26.7	23.4	r	304
S/2017 J 3	2017 04 23.13081	13 01 36.66	−03 53 23.4	23.4	r	304
S/2017 J 3	2018 04 12.19240	15 09 13.694	−17 18 28.42	23.9	r	23 807
S/2017 J 3	2018 04 12.19562	15 09 13.540	−17 18 28.16	24.2	r	23 807
S/2017 J 3	2018 04 13.17718	15 08 48.498	−17 16 41.30	24.1	r	23 807
S/2017 J 3	2018 04 13.19587	15 08 47.987	−17 16 38.97	24.1	r	23 807
S/2017 J 3	2018 05 12.14135	14 54 24.624	−16 12 11.60	24.2	r	23 807
S/2017 J 3	2018 05 12.16110	14 54 23.969	−16 12 08.58	24.3	r	23 807
S/2017 J 3	2018 05 17.25358	14 51 48.236	−15 59 47.21	24.2	r	304
S/2017 J 3	2018 05 17.26616	14 51 47.862	−15 59 45.39	24.3	r	304
S/2017 J 4	2017 03 23.25159	13 18 51.84	−06 30 49.1	23.0	r	23 807
S/2017 J 4	2017 03 23.27395	13 18 51.33	−06 30 45.7	23.0	r	23 807
S/2017 J 4	2017 03 26.27648	13 17 46.33	−06 21 53.7	23.1	r	23 807
S/2017 J 4	2017 03 26.32458	13 17 45.21	−06 21 45.0	23.2	r	23 807
S/2017 J 4	2017 04 20.24526	13 07 26.15	−05 03 57.3			G37
S/2017 J 4	2017 04 20.24908	13 07 26.06	−05 03 56.9			G37
S/2017 J 4	2017 04 20.29824	13 07 24.77	−05 03 47.9			G37
S/2017 J 4	2017 04 20.30206	13 07 24.66	−05 03 47.3			G37
S/2017 J 4	2017 04 23.18692	13 06 11.08	−04 55 08.2	23.0	r	304
S/2017 J 4	2017 04 23.20098	13 06 10.76	−04 55 05.3	23.0	r	304
S/2017 J 4	2017 04 24.26754	13 05 43.88	−04 51 58.4	23.1	r	304
S/2017 J 4	2017 04 24.29821	13 05 43.10	−04 51 53.1	23.0	r	304
S/2017 J 4	2017 04 26.26799	13 04 53.90	−04 46 13.4	23.0	r	304
S/2017 J 4	2017 04 26.29223	13 04 53.28	−04 46 09.4	23.0	r	304
S/2017 J 4	2017 06 18.16049	12 52 44.95	−03 41 14.2			G37
S/2017 J 4	2017 06 18.21665	12 52 44.98	−03 41 16.6			G37
S/2017 J 4	2018 05 12.14135	14 59 49.016	−16 00 50.03	23.7	r	23 807
S/2017 J 4	2018 05 12.16110	14 59 48.289	−16 00 47.98	23.7	r	23 807
S/2017 J 4	2018 05 16.29504	14 57 24.754	−15 53 16.41	23.9	r	304
S/2017 J 4	2018 05 16.30783	14 57 24.314	−15 53 14.96	23.9	r	304
S/2017 J 5	2017 03 23.25159	13 19 37.39	−07 17 46.1	23.5	r	23 807
S/2017 J 5	2017 03 23.27395	13 19 36.72	−07 17 42.3	23.4	r	23 807
S/2017 J 5	2017 03 26.27648	13 18 09.91	−07 09 05.2	23.6	r	23 807
S/2017 J 5	2017 03 26.32458	13 18 08.46	−07 08 56.6	23.7	r	23 807
S/2017 J 5	2017 04 22.08449	13 04 27.41	−05 47 01.0	23.4	r	304
S/2017 J 5	2017 04 22.11756	13 04 26.42	−05 46 54.9	23.4	r	304
S/2017 J 5	2017 04 23.10563	13 03 57.22	−05 44 00.2	23.5	r	304
S/2017 J 5	2017 04 23.12810	13 03 56.56	−05 43 56.3	23.4	r	304
S/2017 J 5	2017 04 26.21035	13 02 27.20	−05 35 01.4	23.4	r	304
S/2017 J 5	2017 04 26.27512	13 02 25.32	−05 34 50.4	23.5	r	304
S/2017 J 5	2018 05 11.16318	15 12 02.696	−16 08 30.19	23.8	r	23 807
S/2017 J 5	2018 05 11.18342	15 12 02.088	−16 08 27.88	23.9	r	23 807
S/2017 J 5	2018 05 12.15229	15 11 33.608	−16 06 50.52	23.8	r	23 807
S/2017 J 5	2018 05 12.17423	15 11 32.968	−16 06 48.24	23.9	r	23 807
S/2017 J 6	2017 02 24.55815	13 27 16.08	−07 13 45.1	23.6	r	5 568
S/2017 J 6	2017 02 24.62650	13 27 15.48	−07 13 38.9	23.5	r	5 568
S/2017 J 6	2017 03 23.25159	13 19 57.19	−06 15 57.5	23.5	r	23 807
S/2017 J 6	2017 03 23.27395	13 19 56.65	−06 15 54.0	23.6	r	23 807

S/2017 J 6	2017 03 26.27648	13 18 44.01	−06 07 49.0	23.6	r	23 807
S/2017 J 6	2017 03 26.32458	13 18 42.78	−06 07 40.5	23.6	r	23 807
S/2017 J 6	2017 04 22.09451	13 06 29.14	−04 55 15.5	23.5	r	304
S/2017 J 6	2017 04 22.12501	13 06 28.42	−04 55 11.5	23.5	r	304
S/2017 J 6	2017 04 23.11425	13 06 00.99	−04 52 45.9	23.5	r	304
S/2017 J 6	2017 04 23.13609	13 06 00.40	−04 52 42.5	23.5	r	304
S/2017 J 6	2017 04 26.25842	13 04 35.46	−04 45 18.9	23.5	r	304
S/2017 J 6	2017 04 26.28871	13 04 34.63	−04 45 14.9	23.5	r	304
S/2017 J 6	2018 05 12.13469	14 50 40.355	−16 21 02.76	23.7	r	23 807
S/2017 J 6	2018 05 12.15671	14 50 39.678	−16 21 00.03	23.6	r	23 807
S/2017 J 6	2018 05 16.28739	14 48 38.700	−16 12 10.68	23.9	r	304
S/2017 J 6	2018 05 16.30024	14 48 38.329	−16 12 08.86	24.0	r	304
S/2017 J 7	2017 02 24.55815	13 28 48.18	−07 56 31.5	23.6	r	5 568
S/2017 J 7	2017 02 24.62650	13 28 47.58	−07 56 24.8	23.5	r	5 568
S/2017 J 7	2017 03 23.25159	13 21 34.67	−06 50 06.3	23.9	r	23 807
S/2017 J 7	2017 03 23.27395	13 21 34.16	−06 50 02.1	23.9	r	23 807
S/2017 J 7	2017 03 26.27648	13 20 23.41	−06 40 27.6	23.8	r	23 807
S/2017 J 7	2017 03 26.32458	13 20 22.24	−06 40 18.1	23.7	r	23 807
S/2017 J 7	2017 04 23.14416	13 08 19.05	−05 07 52.2	23.6	r	304
S/2017 J 7	2017 04 23.16589	13 08 18.49	−05 07 48.1	23.5	r	304
S/2017 J 7	2017 04 26.09696	13 07 05.08	−04 58 46.5	23.5	r	304
S/2017 J 7	2017 04 26.12083	13 07 04.51	−04 58 42.3	23.5	r	304
S/2017 J 7	2018 05 12.13469	14 54 53.975	−15 53 00.02	23.9	r	23 807
S/2017 J 7	2018 05 12.14135	14 54 53.734	−15 52 59.49	23.6	r	23 807
S/2017 J 7	2018 05 12.15671	14 54 53.320	−15 52 58.23	23.9	r	23 807
S/2017 J 7	2018 05 12.16110	14 54 53.140	−15 52 57.68	23.6	r	23 807
S/2017 J 7	2018 05 16.28994	14 52 55.175	−15 46 53.46	24.1	r	304
S/2017 J 7	2018 05 16.30274	14 52 54.818	−15 46 52.24	24.0	r	304
S/2017 J 7	2018 05 17.20612	14 52 29.492	−15 45 34.12	23.7	r	304
S/2017 J 7	2018 05 17.25608	14 52 28.078	−15 45 29.84	23.7	r	304
S/2017 J 8	2017 03 23.25159	13 21 38.04	−07 32 47.2	24.1	r	23 807
S/2017 J 8	2017 03 23.27395	13 21 37.41	−07 32 43.3	24.0	r	23 807
S/2017 J 8	2017 03 26.27648	13 20 12.62	−07 24 00.8	24.1	r	23 807
S/2017 J 8	2017 03 26.32458	13 20 11.19	−07 23 52.7	24.1	r	23 807
S/2017 J 8	2017 04 22.24853	13 06 38.65	−06 00 22.4	24.1	r	304
S/2017 J 8	2017 04 24.20379	13 05 41.90	−05 54 31.9	24.1	r	304
S/2017 J 8	2017 04 24.25278	13 05 40.47	−05 54 23.1	24.1	r	304
S/2017 J 8	2017 04 26.08418	13 04 48.41	−05 49 00.7	24.0	r	304
S/2017 J 8	2017 04 26.11039	13 04 47.63	−05 48 56.0	24.1	r	304
S/2017 J 8	2018 05 11.16318	15 11 03.113	−16 22 51.88	24.1	r	23 807
S/2017 J 8	2018 05 11.18342	15 11 02.515	−16 22 49.91	23.9	r	23 807
S/2017 J 8	2018 05 12.15229	15 10 34.392	−16 21 17.19	23.9	r	23 807
S/2017 J 8	2018 05 12.17423	15 10 33.751	−16 21 15.47	24.3	r	23 807
S/2017 J 9	2017 02 24.55815	13 31 23.39	−07 43 58.5	23.7	r	5 568
S/2017 J 9	2017 02 24.62650	13 31 22.60	−07 43 51.0	23.8	r	5 568
S/2017 J 9	2017 03 23.25159	13 22 53.30	−06 35 33.2	23.0	r	23 807
S/2017 J 9	2017 03 26.27648	13 21 33.57	−06 25 54.1	23.1	r	23 807
S/2017 J 9	2017 03 26.32458	13 21 32.28	−06 25 44.6	23.1	r	23 807
S/2017 J 9	2017 04 23.06211	13 08 19.24	−04 54 55.6	22.7	r	304
S/2017 J 9	2017 04 23.07765	13 08 18.78	−04 54 52.8	22.7	r	304
S/2017 J 9	2018 04 12.19240	15 10 00.282	−16 44 40.19	23.5	r	23 807
S/2017 J 9	2018 04 12.19562	15 10 00.185	−16 44 41.34	23.4	r	23 807
S/2017 J 9	2018 04 13.17718	15 09 38.686	−16 43 36.11	23.6	r	23 807
S/2017 J 9	2018 04 13.19587	15 09 38.264	−16 43 34.50	23.4	r	23 807
S/2017 J 9	2018 05 12.14135	14 56 57.998	−16 02 38.32	23.0	r	23 807
S/2017 J 9	2018 05 12.16110	14 56 57.422	−16 02 36.43	23.0	r	23 807
S/2017 J 9	2018 05 17.24340	14 54 39.164	−15 54 49.37	22.9	r	304
S/2017 J 9	2018 05 17.25862	14 54 38.740	−15 54 48.27	22.9	r	304
S/2018 J 1	2017 03 25.22365	13 12 58.740	−06 20 57.96	22.7	r	23 807
S/2018 J 1	2017 03 26.28417	13 12 25.567	−06 16 51.01	22.8	r	23 807
S/2018 J 1	2017 03 26.32711	13 12 24.185	−06 16 40.79	22.8	r	23 807
S/2018 J 1	2018 04 13.18029	15 18 02.988	−16 44 56.21	23.0	r	23 807
S/2018 J 1	2018 04 13.18651	15 18 02.873	−16 44 56.07	23.0	r	23 807
S/2018 J 1	2018 05 11.16075	15 06 18.025	−16 17 25.90	22.9	r	23 807
S/2018 J 1	2018 05 11.18101	15 06 17.413	−16 17 24.60	23.0	r	23 807
S/2018 J 1	2018 05 12.15448	15 05 49.276	−16 16 13.94	23.0	r	23 807
S/2018 J 1	2018 05 12.17641	15 05 48.631	−16 16 12.33	23.0	r	23 807
S/2018 J 1	2018 05 18.25718	15 02 51.886	−16 08 41.37	23.2	r	304
S/2018 J 1	2018 05 18.27592	15 02 51.335	−16 08 39.82	23.3	r	304
S/2018 J 1	2018 05 19.14032	15 02 26.340	−16 07 35.07	23.1	r	304
S/2018 J 1	2018 05 19.16694	15 02 25.530	−16 07 32.91	23.1	r	304
S/2018 J 1	2018 06 12.19238	14 51 50.016	−15 38 41.61	23.0	r	G37
S/2018 J 1	2018 06 12.20164	14 51 49.818	−15 38 40.88	23.1	r	G37
S/2018 J 1	2018 06 15.415344	14 50 40.434	−15 35 19.13	22.73	G	T12
S/2018 J 1	2018 06 15.422749	14 50 40.285	−15 35 18.72	22.87	G	T12
Jupiter VI	2018 05 31.46948	14 53 27.99	−15 19 52.8	14.6	o	T05
Jupiter VI	2018 05 31.47743	14 53 27.74	−15 19 51.4	14.7	o	T05
Jupiter VI	2018 05 31.48534	14 53 27.49	−15 19 49.9	14.7	o	T05
Jupiter VI	2018 05 31.49372	14 53 27.23	−15 19 48.5	14.5	o	T05
Jupiter VI	2018 06 11.42363	14 48 20.34	−14 49 47.4	14.7	o	T08
Jupiter VI	2018 06 11.43436	14 48 20.05	−14 49 45.8	14.7	o	T08
Jupiter VI	2018 06 11.45587	14 48 19.51	−14 49 42.7	14.7	o	T08
Jupiter VI	2018 06 13.46325	14 47 31.01	−14 44 53.5	14.9	o	T05
Jupiter VI	2018 06 13.47388	14 47 30.76	−14 44 51.9	14.9	o	T05
Jupiter VI	2018 06 13.48406	14 47 30.51	−14 44 50.7	14.9	o	T05
Jupiter VI	2018 07 12.88189	14 41 41.36	−14 10 55.6	15.3	V	9 G40
Jupiter VI	2018 07 12.99010	14 41 41.35	−14 10 56.2	15.1	V	9 G40
Jupiter VI	2018 09 09.22266	15 02 28.15	−16 12 18.1	15.6	o	T05
Jupiter VI	2018 09 09.22811	15 02 28.37	−16 12 19.3	15.7	o	T05
Jupiter VI	2018 09 09.23638	15 02 28.68	−16 12 20.9	15.6	o	T05
Jupiter VI	2018 09 16.21800	15 07 09.35	−16 36 26.6	15.7	o	T05
Jupiter VI	2018 09 16.22274	15 07 09.54	−16 36 27.6	15.7	o	T05
Jupiter VI	2018 09 16.22974	15 07 09.84	−16 36 29.1	15.7	o	T05
Jupiter VI	2018 09 16.23985	15 07 10.27	−16 36 31.1	15.7	o	T05
Jupiter VI	2018 09 18.21690	15 08 33.58	−16 43 30.3	15.7	o	T08
Jupiter VI	2018 09 18.22072	15 08 33.74	−16 43 30.9	15.9	o	T08
Jupiter VI	2018 09 18.22688	15 08 33.99	−16 43 32.3	15.7	o	T08
Jupiter VI	2018 09 18.23583	15 08 34.38	−16 43 34.2	15.7	o	T08
Jupiter VII	2018 06 06.32294	14 49 07.906	−14 30 19.10	16.9	w	F51
Jupiter VII	2018 06 06.33402	14 49 07.696	−14 30 18.49	17.0	w	F51
Jupiter VII	2018 06 06.34509	14 49 07.499	−14 30 17.96	16.9	w	F51
Jupiter VII	2018 06 06.35615	14 49 07.283	−14 30 17.33	17.0	w	F51
Jupiter VII	2018 09 09.22811	15 05 11.24	−16 54 37.5	17.4	o	T05
Jupiter VII	2018 09 09.23162	15 05 11.36	−16 54 37.9	17.4	o	T05
Jupiter VII	2018 09 09.23638	15 05 11.53	−16 54 38.8	17.6	o	T05
Jupiter VII	2018 09 09.24069	15 05 11.68	−16 54 39.5	17.5	o	T05

Jupiter VII	2018 09 09.25058	15 05 12.01	−16 54 40.9	17.6	o	T05
Jupiter VII	2018 09 09.26085	15 05 12.34	−16 54 42.6	17.4	o	T05
Jupiter VII	2018 09 16.21800	15 09 20.05	−17 13 15.3	17.4	o	T05
Jupiter VII	2018 09 16.22274	15 09 20.21	−17 13 15.8	17.1	o	T05
Jupiter VII	2018 09 16.22974	15 09 20.49	−17 13 17.4	17.3	o	T05
Jupiter VII	2018 09 16.23985	15 09 20.84	−17 13 18.7	17.3	o	T05
Jupiter VIII	2018 05 31.46948	14 59 46.39	−14 49 25.3	17.0	o	T05
Jupiter VIII	2018 05 31.47743	14 59 46.16	−14 49 24.5	17.1	o	T05
Jupiter VIII	2018 05 31.48534	14 59 45.92	−14 49 23.8	17.1	o	T05
Jupiter VIII	2018 05 31.49372	14 59 45.67	−14 49 22.7	17.1	o	T05
Jupiter VIII	2018 06 02.43210	14 58 49.87	−14 46 36.7	17.2	o	T08
Jupiter VIII	2018 06 02.44096	14 58 49.62	−14 46 35.4	17.3	o	T08
Jupiter VIII	2018 06 02.44994	14 58 49.35	−14 46 34.6	17.1	o	T08
Jupiter VIII	2018 06 02.45850	14 58 49.11	−14 46 34.3	17.3	o	T08
Jupiter IX	2018 06 02.89818	14 44 24.07	−14 56 12.6	18.2	G	17G40
Jupiter IX	2018 06 03.04434	14 44 20.19	−14 55 59.8	18.6	G	17G40
Jupiter IX	2018 06 03.90554	14 43 58.22	−14 54 43.9	18.3	G	17G40
Jupiter IX	2018 06 03.91893	14 43 57.88	−14 54 43.0	18.5	G	17G40
Jupiter IX	2018 06 03.92583	14 43 57.70	−14 54 42.2	18.3	G	17G40
Jupiter IX	2018 06 03.93281	14 43 57.52	−14 54 41.6	18.4	G	17G40
Jupiter IX	2018 06 06.32294	14 42 58.304	−14 51 20.01	18.6	w	F51
Jupiter IX	2018 06 06.33402	14 42 58.027	−14 51 19.15	18.7	w	F51
Jupiter IX	2018 06 06.34509	14 42 57.751	−14 51 18.25	18.7	w	F51
Jupiter IX	2018 06 06.35615	14 42 57.477	−14 51 17.35	18.8	w	F51
Jupiter XI	2017 03 19.29559	13 22 45.35	−07 18 14.2	17.8	V	4W88
Jupiter XI	2017 03 19.31124	13 22 44.98	−07 18 11.8	17.9	V	4W88
Jupiter XI	2017 03 19.33207	13 22 44.51	−07 18 09.4	17.8	V	4W88
Jupiter XI	2018 05 31.46948	14 48 19.12	−14 50 23.7	17.7	o	T05
Jupiter XI	2018 05 31.47743	14 48 18.93	−14 50 23.2	17.6	o	T05
Jupiter XI	2018 05 31.48534	14 48 18.69	−14 50 22.0	17.7	o	T05
Jupiter XI	2018 05 31.49372	14 48 18.49	−14 50 21.3	18.0	o	T05
Jupiter XI	2018 06 02.43210	14 47 27.97	−14 46 26.0	17.9	o	T08
Jupiter XI	2018 06 02.44096	14 47 27.68	−14 46 24.7	17.7	o	T08
Jupiter XI	2018 06 02.44994	14 47 27.41	−14 46 22.6	18.0	o	T08
Jupiter XI	2018 06 02.45850	14 47 27.18	−14 46 22.9	18.0	o	T08
Jupiter XI	2018 06 06.32294	14 45 52.010	−14 38 59.19	17.9	w	F51
Jupiter XI	2018 06 06.33402	14 45 51.739	−14 38 57.94	17.9	w	F51
Jupiter XI	2018 06 06.34509	14 45 51.471	−14 38 56.74	17.9	w	F51
Jupiter XI	2018 06 06.35615	14 45 51.198	−14 38 55.49	17.9	w	F51
Jupiter XXVI	2018 04 13.17718	15 09 04.385	−16 05 21.88	23.3	r	23 807
Jupiter XXVI	2018 04 13.19587	15 09 03.888	−16 05 19.55	23.3	r	23 807
Jupiter XXVI	2018 05 12.14135	14 54 44.068	−14 59 06.21	23.2	r	23 807
Jupiter XXVI	2018 05 12.16110	14 54 43.423	−14 59 03.24	23.2	r	23 807
Jupiter XXXVI	2018 05 16.14068	15 03 11.754	−17 02 15.47	23.7	r	304
Jupiter XXXVI	2018 05 16.19798	15 03 09.907	−17 02 07.23	23.8	r	304
Jupiter XXXVI	2018 05 18.25461	15 02 05.039	−16 57 17.47	23.6	r	304
Jupiter XXXVI	2018 05 18.30229	15 02 03.534	−16 57 10.33	23.7	r	304
Jupiter XLV	2018 05 12.14353	15 01 05.318	−16 34 47.45	23.3	r	23 807
Jupiter XLV	2018 05 12.16549	15 01 04.573	−16 34 44.03	23.1	r	23 807
Jupiter L	2018 05 12.13469	14 51 28.760	−15 34 46.65	23.4	r	23 807
Jupiter L	2018 05 12.15671	14 51 28.084	−15 34 44.22	23.3	r	23 807
Jupiter LVI	2018 05 11.16075	15 05 43.645	−15 07 37.05	23.8	r	23 807
Jupiter LVI	2018 05 11.18101	15 05 43.094	−15 07 34.58	23.7	r	23 807
Jupiter LVI	2018 05 12.15448	15 05 17.423	−15 05 35.36	23.7	r	23 807
Jupiter LVI	2018 05 12.17641	15 05 16.843	−15 05 32.42	23.8	r	23 807
Neptune II	2018 09 08.67478	23 05 58.99	−06 51 15.7	19.1	R	D29
Neptune II	2018 09 08.69157	23 05 58.88	−06 51 16.5	19.1	R	D29
Neptune II	2018 09 08.70837	23 05 58.77	−06 51 17.0	19.2	R	D29
Neptune II	2018 09 10.31782	23 05 48.87	−06 52 20.3	18.86r		I41
Neptune II	2018 09 10.33632	23 05 48.76	−06 52 21.0	19.36g		I41
Neptune II	2018 09 13.27418	23 05 30.68	−06 54 15.7	19.40g		I41
Neptune II	2018 09 13.274181	23 05 30.68	−06 54 15.7	19.40g		I41
Neptune II	2018 09 13.31706	23 05 30.41	−06 54 17.3	19.00r		I41
Neptune II	2018 09 13.317060	23 05 30.41	−06 54 17.3	19.00r		I41
Neptune II	2018 09 16.251350	23 05 12.46	−06 56 10.9	19.51g		I41
Neptune II	2018 09 16.293560	23 05 12.19	−06 56 12.5	19.04r		I41

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

J. M. Codina, Fabra Observatory, E-08022 Barcelona, Spain
[fabra@fajnm1.am.ub.es]
Observers J. Nuñez, A. Bernal, J. M. Codina, N. Torras
0.35-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4

(1627), 16, 2, 3; (13553), 8, 1, 0; (17274), 24, 3, 26; (25916), 13, 2, 1; (66391), 31, 4, 7; (68347), 15, 2, 1; (144332), 15, 1, 0; *[122, 7, 0*, 2018/06/01–2018/09/14]*

010 Caussols

W. Thuillot, Paris Observatory-IMCCE-SYRTE and OCA Nice, France
[William.Thuillot@obspm.fr] (10)
Observers W. Thuillot, S. Roata, J.-P. Rivet, D. Vernet, L. Abe, P. Bendjoya
Measurers W. Thuillot, F. Spoto, S. Bouquillon, F. Taris, T. Carlucci, C. Barache
1.04-m $f/3.2$ reflector + CCD
Gaia-DR1

2014 TY_{39}, 5, 1, 0; 2018 FP_{29}, 11, 2, 1; 2018 GS_{12}, 13, 3, 3; 2018 NM_7, 7, 1, 0; *[36, 4, 0*, 2018/04/15–2018/07/20]*

012 Uccle

T. Pauwels, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels, Belgium [Thierry.Pauwels@oma.be] (2)

2009 VO_{62}, 4, 1, 0; *[4, 1, 0*, 2002/10/09]*

033 Karl Schwarzschild Observatory, Tautenburg

B. Stecklum, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg, Germany [stecklum@tls-tautenburg.de]
Observers C. Hoegner, B. Stecklum
1.34-m $f/3$ Schmidt + CCD
URAT-1

2002 CY_9, 4, 1, 0; 2015 SW_6, 11, 3, 2; 2018 KG_3, 5, 1, 0; 2018 LP_6, 4, 1, 0; 2018 PL_{28}, 10, 1, 0; 2018 RG_4, 5, 1, 0; 2018 RK_4, 5, 1, 0; 2018 RM_4, 6, 1, 0; 2018 RN_4, 5, 1, 0; 2018 RO_4, 7, 1, 0; 2018 RP_4, 4, 1, 0; 2018 RQ_4, 4, 1, 0; 2018 RT_4, 4, 1, 0; 2018 RA_5, 4, 1, 0; 2018 RB_5, 10, 2, 1; 2018 RC_5, 4, 1, 0; 2018 RE_5, 6, 1, 0; 2018 RF_5, 6, 1, 0; 2018 RG_5, 7, 1, 0; 2018 RH_5, 5, 1, 0; 2018 RO_5, 4, 1, 0; 2018 RV_5, 6, 2, 1; 2018 RW_5, 5, 1, 0; 2018 RX_5, 4, 1, 0; 2018 RB_6, 8, 2, 2;

2018 RC_6, 5, 1, 0; 2018 RF_6, 7, 2, 2; 2018 RQ_6, 6, 1, 0; 2018 RV_6, 10, 2, 1; 2018 RC_7, 9, 1, 0; 2018 RH_7, 6, 1, 0; 2018 RJ_7, 3, 1, 0; 2018 RK_7, 4, 1, 0; 2018 RO_7, 8, 2, 1; 2018 RU_7, 4, 1, 0; 2018 RW_7, 9, 2, 2; 2018 RA_8, 5, 1, 0; 2018 RD_8, 13, 2, 1; 2018 RF_8, 8, 2, 1; 2018 RJ_8, 10, 1, 0; 2018 RL_8, 9, 1, 0; 2018 RO_8, 20, 2, 1; 2018 RP_8, 13, 2, 1; 2018 RQ_8, 4, 1, 0; 2018 RR_8, 12, 2, 1; 2018 RT_8, 11, 2, 5; 2018 RU_8, 6, 2, 5; *[325, 47, 0∗, 2018/05/20–2018/09/17]*

049 Uppsala-Kvistaberg

C.-I. Lagerkvist, Uppsala Astronomical Observatory, Box 515, S-75120 Uppsala, Sweden [classe@astro.uu.se]
Observers O. Karlsson, C.-I. Lagerkvist, T. Oja, J. Näränen
Measurers G. Hahn, O. Karlsson, C.-I. Lagerkvist, S. Mottola, J. Warell
1.0-m Schmidt + CCD
USNO-SA2.0

2002 RM_{297} ∗, 3, 1, 0; *[3, 1, 1∗, 2002/09/11]*

069 Baldone

I. Eglitis, Institute of Astronomy University of Latvia, Boulevard Rainis 19, Riga, Latvia [ilgmars@latnet.lv]
Observers I. Eglitis, K. Černis
0.80-m $f/3.0$ Schmidt + CCD
USNO-B1.0, UCAC-2

2000 SC_{131}, 3, 1, 0; 2001 PU_{58}, 3, 1, 0; 2001 SQ_{217}, 3, 1, 0; 2001 SR_{263}, 3, 1, 0; 2002 XN_{121}, 3, 1, 0; 2005 JV_{140}, 6, 2, 2; 2005 UW_{441}, 3, 1, 0; 2006 YG_{28}, 3, 1, 0; 2007 FX_{52}, 3, 1, 0; 2007 TX_{217}, 3, 1, 0; 2007 TQ_{298}, 3, 1, 0; 2007 VM_{51}, 3, 1, 0; 2008 VY_{82}, 3, 1, 0; 2009 ET_{32}, 6, 2, 2; 2010 AN_{39}, 3, 1, 0; 2010 DU_{62}, 3, 1, 0; 2011 JX_{32}, 3, 1, 0; 2011 SP_{159}, 3, 1, 0; 2011 UN_{22}, 3, 1, 0; 2011 VC_1, 3, 1, 0; 2012 FP_{10}, 3, 1, 0; 2012 QW_{47}, 3, 1, 0; 2012 TJ_{331}, 3, 1, 0; 2013 PY_{83}, 6, 2, 2; 2013 RW_{53}, 3, 1, 0; 2014 GB_{65}, 2, 1, 0; 2014 LT_{32}, 3, 1, 0; 2014 OL_{296}, 3, 1, 0; 2014 QN_{354}, 3, 1, 0; 2014 VS_{32}, 3, 1, 0; 2015 DT_{231}, 3, 1, 0; 2015 FW_{402}, 3, 1, 0; 2015 XH_{397}, 3, 1, 0; 2016 CL_{279}, 6, 2, 3; 2017 KZ_{18}, 3, 1, 0; 2017 PX_{33}, 3, 1, 0; 2017 SE_{129}, 2, 1, 0; 2018 RG_{17} ∗, 6, 2, 3; 2018 RH_{17} ∗, 6, 2, 3; (366), 3, 1, 0; (1258), 3, 1, 0; (1678), 3, 1, 0; (2904), 2, 1, 0; (3376), 3, 1, 0; (3406), 6, 2, 3; (3675), 6, 2, 3; (4010), 3, 1, 0; (4182), 6, 2, 3; (4390), 3, 1, 0; (5085), 3, 1, 0; (5992), 3, 1, 0; (7775), 3, 1, 0; (8617), 3, 1, 0; (11773), 3, 1, 0; (11986), 3, 1, 0; (13190), 3, 1, 0; (13988), 6, 2, 4; (14238), 6, 2, 4; (14442), 3, 1, 0; (14859), 6, 2, 5; (15996), 3, 1, 0; (16405), 6, 2, 3; (16810), 6, 2, 3; (17132), 2, 1, 0; (17431), 3, 1, 0; (18174), 3, 1, 0; (18227), 3, 1, 0; (19128), 6, 2, 5; (20477), 3, 1, 0; (22274), 3, 1, 0; (22537), 6, 2, 4; (26839), 6, 2, 3; (27525), 3, 1, 0; (27714), 3, 1, 0; (28020), 3, 1, 0; (28185), 6, 2, 5; (28331), 3, 1, 0; (30468), 6, 2, 3; (32463), 3, 1, 0; (32536), 6, 2, 3; (32717), 3, 1, 0; (33983), 6, 2, 3; (34069), 3, 1, 0; (34514), 6, 2, 4; (35019), 3, 1, 0; (35063), 6, 2, 4; (35486), 3, 1, 0; (36698), 3, 1, 0; (37360), 3, 1, 0; (37675), 6, 2, 3; (38517), 3, 1, 0; (39435), 6, 2, 4; (40798), 3, 1, 0; (41179), 3, 1, 0; (45564), 2, 1, 0; (45671), 6, 2, 3; (46371), 3, 1, 0; (51146), 3, 1, 0; (51184), 3, 1, 0; (51850), 6, 2, 3; (52430), 3, 1, 0; (53990), 6, 2, 4; (56626), 3, 1, 0; (56891), 3, 1, 0; (56915), 3, 1, 0; (57002), 3, 1, 0; (57602), 3, 1, 0; (57606), 3, 1, 0; (58363), 3, 1, 0; (58592), 3, 1, 0; (59158), 3, 1, 0; (59423), 6, 2, 3; (60893), 3, 1, 0; (62144), 3, 1, 0; (64090), 2, 1, 0; (64131), 3, 1, 0; (65425), 3, 1, 0; (65558), 3, 1, 0; (65873), 6, 2, 3; (67566), 3, 1, 0; (67590), 3, 1, 0; (67995), 3, 1, 0; (68445), 3, 1, 0; (69512), 3, 1, 0; (70530), 3, 1, 0; (71041), 3, 1, 0; (72223), 3, 1, 0; (73090), 3, 1, 0; (73114), 3, 1, 0; (75959), 6, 2, 3; (77666), 3, 1, 0; (77676), 3, 1, 0; (81480), 2, 1, 0; (81859), 6, 2, 5; (81935), 6, 2, 3; (82338), 6, 2, 4; (82658), 3, 1, 0; (83294), 3, 1, 0; (85844), 3, 1, 0; (88325), 6, 2, 3; (89044), 3, 1, 0; (90718), 3, 1, 0; (91221), 3, 1, 0; (91272), 3, 1, 0; (91732), 3, 1, 0; (92829), 3, 1, 0; (93249), 3, 1, 0; (93536), 6, 2, 3; (93601), 3, 1, 0; (93966), 6, 2, 3; (94588), 3, 1, 0; (95151), 3, 1, 0; (95267), 3, 1, 0; (95380), 3, 1, 0; (95713), 3, 1, 0; (95916), 3, 1, 0; (95994), 2, 1, 0; (96244), 3, 1, 0; (97605), 2, 1, 0; (98052), 3, 1, 0; (98244), 3, 1, 0; (99437), 3, 1, 0; (99608), 3, 1, 0; (100315), 2, 1, 0; (100443), 3, 1, 0; (101099), 6, 2, 3; (102559), 3, 1, 0; (104209), 6, 2, 5; (104484), 3, 1, 0; (104839), 3, 1, 0; (105144), 3, 1, 0; (105259), 3, 1, 0; (107070), 3, 1, 0; (107658), 3, 1, 0; (107662), 3, 1, 0; (108676), 3, 1, 0; (108846), 3, 1, 0; (109367), 3, 1, 0; (109682), 3, 1, 0; (109693), 3, 1, 0; (110640), 3, 1, 0; (111237), 6, 2, 5; (113198), 6, 2, 4; (113223), 3, 1, 0; (113669), 3, 1, 0; (113755), 3, 1, 0; (114778), 3, 1, 0; (115790), 3, 1, 0; (117534), 6, 2, 5; (117948), 3, 1, 0; (118827), 3, 1, 0; (119369), 3, 1, 0; (120139), 3, 1, 0; (121269), 3, 1, 0; (121272), 3, 1, 0; (121351), 6, 2, 4; (122199), 3, 1, 0; (122235), 3, 1, 0; (122485), 3, 1, 0; (122740), 3, 1, 0; (123427), 3, 1, 0; (123795), 6, 2, 4; (124980), 3, 1, 0; (125053), 3, 1, 0; (125409), 3, 1, 0; (125764), 2, 1, 0; (127429), 6, 2, 3; (130006), 6, 2, 3; (130704), 3, 1, 0; (132300), 3, 1, 0; (132960), 3, 1, 0; (133002), 3, 1, 0; (133849), 3, 1, 0; (135138), 6, 2, 5; (135483), 2, 1, 0; (136229), 6, 2, 5; (136855), 3, 1, 0; (142266), 3, 1, 0; (142736), 3, 1, 0; (143533), 3, 1, 0; (148538), 3, 1, 0; (150500), 6, 2, 3; (150504), 6, 2, 4; (150798), 3, 1, 0; (152886), 3, 1, 0; (154297), 3, 1, 0; (155214), 3, 1, 0; (156508), 3, 1, 0; (157021), 3, 1, 0; (157480), 3, 1, 0; (157487), 3, 1, 0; (158587), 3, 1, 0; (161613), 3, 1, 0; (162673), 3, 1, 0; (162962), 3, 1, 0; (164466), 3, 1, 0; (166951), 3, 1, 0; (167685), 6, 2, 4; (167742), 3, 1, 0; (167771), 3, 1, 0; (167867), 3, 1, 0; (169252), 3, 1, 0; (170286), 6, 2, 3; (170335), 3, 1, 0; (170490), 3, 1, 0; (170574), 3, 1, 0; (170891), 3, 1, 0; (172777), 6, 2, 3; (173113), 3, 1, 0; (175933), 3, 1, 0; (179936), 2, 1, 0; (183364), 3, 1, 0; (184271), 3, 1, 0; (188475), 3, 1, 0; (188675), 6, 2, 3; (190200), 3, 1, 0; (190285), 3, 1, 0; (191584), 3, 1, 0; (194246), 3, 1, 0; (197964), 6, 2, 3; (198611), 3, 1, 0; (201192), 3, 1, 0; (201442), 3, 1, 0; (201940), 3, 1, 0; (203278), 3, 1, 0; (203320), 6, 2, 5; (204223), 3, 1, 0; (205335), 3, 1, 0; (206608), 3, 1, 0; (207001), 3, 1, 0; (207764), 3, 1, 0; (208255), 3, 1, 0; (208483), 3, 1, 0; (208511), 3, 1, 0; (208609), 3, 1, 0; (209120), 3, 1, 0; (209566), 3, 1, 0; (209631), 6, 2, 3; (210858), 6, 2, 4; (211103), 3, 1, 0; (211469), 3, 1, 0; (217032), 6, 2, 3; (217037), 3, 1, 0; (217216), 3, 1, 0; (218596), 3, 1, 0; (218619), 3, 1, 0; (218679), 2, 1, 0; (218738), 6, 2, 3; (219408), 3, 1, 0; (219814), 3, 1, 0; (221103), 3, 1, 0; (221690), 3, 1, 0; (222240), 2, 1, 0; (223749), 3, 1, 0; (224938), 6, 2, 5; (226315), 3, 1, 0; (226786), 3, 1, 0; (226796), 3, 1, 0; (228083), 3, 1, 0; (229118), 3, 1, 0; (229195), 6, 2, 3; (229663), 2, 1, 0; (230964), 3, 1, 0; (231250), 3, 1, 0; (231778), 3, 1, 0; (233003), 3, 1, 0; (233168), 3, 1, 0; (241328), 3, 1, 0; (241882), 3, 1, 0; (242495), 3, 1, 0; (243228), 3, 1, 0; (243487), 6, 2, 3; (246846), 3, 1, 0; (247473), 3, 1, 0; (249826), 3, 1, 0; (250133), 3, 1, 0; (251654), 3, 1, 0; (252041), 3, 1, 0; (252281), 3, 1, 0; (253182), 3, 1, 0; (256151), 3, 1, 0; (258102), 3, 1, 0; (260122), 3, 1, 0; (261537), 3, 1, 0; (262541), 3, 1, 0; (263869), 3, 1, 0; (265479), 2, 1, 0; (265892), 6, 2, 3; (267034), 3, 1, 0; (268597), 6, 2, 3; (270451), 3, 1, 0; (271748), 3, 1, 0; (272114), 3, 1, 0; (274010), 3, 1, 0; (274052), 3, 1, 0; (278457), 3, 1, 0; (280001), 3, 1, 0; (283228), 3, 1, 0; (285092), 3, 1, 0; (285115), 6, 2, 3; (285358), 3, 1, 0; (286001), 3, 1, 0; (286105), 3, 1, 0; (286271), 6, 2, 5; (290563), 3, 1, 0; (290994), 3, 1, 0; (291382), 3, 1, 0; (293479), 3, 1, 0; (294184), 3, 1, 0; (298306), 3, 1, 0; (298841), 3, 1, 0; (303357), 6, 2, 5; (303966), 3, 1, 0; (304785), 3, 1, 0; (304850), 3, 1, 0; (312104), 3, 1, 0; (312170), 3, 1, 0; (319566), 3, 1, 0; (320477), 6, 2, 3; (322011), 3, 1, 0; (322848), 6, 2, 3; (323446), 3, 1, 0; (327320), 6, 2, 3; (328362), 3, 1, 0; (328622), 3, 1, 0; (330119), 3, 1, 0; (330425), 3, 1, 0; (335648), 3, 1, 0; (335864), 3, 1, 0; 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(426140), 3, 1, 0; (426290), 3, 1, 0; (428126), 3, 1, 0; (428998), 3, 1, 0; (430900), 3, 1, 0; (433509), 3, 1, 0; (435329), 3, 1, 0; (435392), 3, 1, 0; (444013), 3, 1, 0; (446276), 3, 1, 0; (459045), 3, 1, 0; (459336), 3, 1, 0; (460069), 3, 1, 0; (462619), 3, 1, 0; (462623), 6, 2, 3; (463407), 3, 1, 0; (463528), 3, 1, 0; (465350), 3, 1, 0; (467597), 3, 1, 0; (469070), 3, 1, 0; (482811), 3, 1, 0; (485159), 3, 1, 0; (489584), 6, 2, 3; (490349), 3, 1, 0; (491975), 3, 1, 0; (493185), 3, 1, 0; (494148), 2, 1, 0; (495370), 3, 1, 0; (495521), 6, 2, 3; (496453), 3, 1, 0; (498176), 3, 1, 0; (518800), 3, 1, 0; *[1600, 454, 2∗, 2017/05/02–2018/09/19]*

073 Bucharest

G. Boçsa, Center for Astronomy and Space Sciences, Cutitul de Argint 5, R-75212 Bucharest, Romania [mstavinschi@imar.ro]
Observers A. Sonka, A. Gornea
0.38-m $f/8$ Ritchey-Chrétien + CCD
PPMXL

2015 DP_{155}, 22, 3, 3; 2018 RC, 8, 1, 0; (13553), 7, 1, 0; *[37, 3, 0∗, 2018/06/05–2018/09/07]*

089 Nikolaev

N. V. Maigurova, Nikolaev Astronomical Observatory, 1 Observatorna, UA-54030 Mykolaiv, Ukraine [nadija@nao.nikolaev.ua] (5)
Observers A. Pomazan, D. Bodryagin, F. Bushuev, M. Kaliuzny, V. Kryuchkovskiy, A. V. Pomazan, V. O. Kulichenko, M. P. Kaliuzhnyi, D. V. Bodryagin
Measurers A. V. Pomazan, N. V. Maigurova, O. V. Shulga
0.5-m $f/6.0$ Maksutov + CCD
UCAC-4, Gaia-DR2, Gaia-DR1

2009 OG, 10, 2, 1; 2010 WC_9, 8, 1, 0; 2011 GA_{62}, 16, 2, 2; 2012 BV_{26}, 9, 1, 0; 2012 OD_1, 5, 1, 0; 2015 DP_{155}, 38, 5, 13; 2017 YE_5, 19, 3, 12; 2018 EJ_4, 19, 2, 10; 2018 HV_2, 9, 1, 0; 2018 MB_7, 8, 1, 0; 2018 MV_7 ∗, 18, 2, 1; 2018 MR_8, 18, 2, 5; 2018 NB, 57, 8, 26; 2018 NU_3, 5, 1, 0; (60), 86, 9, 21; (83), 31, 5, 20; (94), 8, 2, 5; (160), 45, 6, 27; (218), 24, 4, 4; (268), 4, 1, 0; (308), 4, 1, 0; (431), 8, 1, 0; (1860), 6, 1, 0; (2061), 46, 5, 19; (2835), 10, 2, 1; (2857), 36, 6, 22; (4068), 4, 1, 0; (4873), 35, 4, 17; (7813), 62, 9, 24; (31887), 14, 1, 0; (66391), 44, 5, 5; (68347), 46, 6, 10; (139289), 34, 4,

4; (139345), 58, 7, 19; (162168), 31, 4, 6; (162483), 21, 3, 7; (212359), 3, 1, 0; (398188), 10, 1, 0; (441987), 8, 1, 0; (467309), 5, 1, 0; *[922, 40, 1*, 2018/05/14–2018/08/29]*

094 Simeïs
A. Novichonok, no details suppied [cometsnov01@gmail.com] (8)
Observers A. Novichonok, Y. Krugly
1.0-m $f/13$ reflector + CCD
UCAC-4, Gaia-DR1
2017 YE_5, 4, 1, 0; (719), 1, 1, 0; (7889), 4, 1, 0; (66391), 8, 2, 1; (162168), 4, 1, 0; (216689), 4, 1, 0; *[25, 6, 0*, 2018/07/03–2018/07/21]*

097 Wise Observatory, Mitzpeh Ramon
E. Ofek, Wise Observatory, Tel-Aviv University, IL-69978 Tel-Aviv, Israel [Eran@wise.tau.ac.il]
Observer D. Polishook
1.0-m $f/7$ reflector + CCD
USNO-A2.0
2015 TH_{289}, 3, 1, 0; *[3, 1, 0*, 1998/11/14–1998/11/15]*

104 San Marcello Pistoiese
L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]
Observers P. Bacci, M. Maestripieri, M. D. Grazia, G. Succi, S. Sisi, M. Fragai
Measurers P. Bacci, L. Tesi, G. Fagioli
0.6-m $f/4.0$ reflector + CCD
Gaia-DR1, UCAC-4, Gaia-DR2, URAT-1
1998 SD_9, 3, 1, 0; 2001 YX_{39}, 6, 2, 4; 2005 LA_{37}, 3, 1, 0; 2005 RB, 3, 1, 0; 2009 QJ_9, 2, 1, 0; 2012 BV_{26}, 3, 1, 0; 2014 NE_3, 3, 1, 0; 2014 NW_{65}, 2, 1, 0; 2014 WO_{371}, 3, 1, 0; 2015 BR_{514}, 3, 1, 0; 2015 FP_{118}, 4, 1, 0; 2015 OH, 3, 1, 0; 2015 PM, 3, 1, 0; 2015 SW_6, 3, 1, 0; 2016 MK_1, 3, 1, 0; 2018 BV_5, 3, 1, 0; 2018 EJ_4, 6, 2, 7; 2018 JA, 3, 1, 0; 2018 JC_3, 2, 1, 0; 2018 JK_3, 3, 1, 0; 2018 KY_2, 3, 1, 0; 2018 KC_3, 3, 1, 0; 2018 KD_3, 3, 1, 0; 2018 KF_3, 3, 1, 0; 2018 KB_4, 3, 1, 0; 2018 LT_4, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LO_5, 3, 1, 0; 2018 LW_5, 3, 1, 0; 2018 LX_5, 4, 1, 0; 2018 LT_6, 3, 1, 0; 2018 MF, 3, 1, 0; 2018 MJ, 3, 1, 0; 2018 MK, 4, 1, 0; 2018 MG_5, 3, 1, 0; 2018 NA, 6, 2, 2; 2018 ND, 4, 1, 0; 2018 NH, 4, 1, 0; 2018 NJ, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 NV, 3, 1, 0; 2018 NG_1, 3, 1, 0; 2018 NN_1, 3, 1, 0; 2018 NP_1, 3, 1, 0; 2018 NF_2, 3, 1, 0; 2018 NG_2, 2, 1, 0; 2018 NV_2, 4, 2, 1; 2018 NF_4, 4, 1, 0; 2018 NG_4, 3, 1, 0; 2018 NJ_4, 3, 1, 0; 2018 NL_4, 3, 1, 0; 2018 NO_4, 2, 1, 0; 2018 OB, 3, 1, 0; 2018 OF, 3, 1, 0; 2018 OG, 3, 1, 0; 2018 OK, 2, 1, 0; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 OQ, 5, 1, 0; 2018 PR_7, 4, 1, 0; 2018 PU_7, 3, 1, 0; 2018 PL_8, 3, 1, 0; 2018 PJ_9, 4, 1, 0; 2018 PK_9, 3, 1, 0; 2018 PM_9, 3, 1, 0; 2018 PN_9, 3, 1, 0; 2018 PG_{10}, 4, 1, 0; 2018 PM_{10}, 3, 1, 0; 2018 PV_{10}, 3, 1, 0; 2018 PC_{20}, 4, 1, 0; 2018 PD_{20}, 4, 1, 0; 2018 PK_{20}, 3, 1, 0; 2018 PK_{21}, 3, 1, 0; 2018 PW_{21}, 3, 1, 0; 2018 PF_{22}, 3, 1, 0; 2018 PJ_{22}, 2, 1, 0; 2018 PN_{22}, 3, 1, 0; 2018 PO_{22}, 4, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 PT_{23}, 4, 1, 0; 2018 QQ, 3, 1, 0; 2018 QS, 3, 1, 0; 2018 QW, 5, 1, 0; 2018 QY, 3, 1, 0; 2018 QH_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 QV_1, 4, 1, 0; 2018 RB, 3, 1, 0; 2018 RC, 4, 1, 0; 2018 RM, 3, 1, 0; 2018 RW, 5, 1, 0; 2018 RX, 3, 1, 0; 2018 RY, 3, 1, 0; 2018 RA_1, 3, 1, 0; 2018 RB_1, 3, 1, 0; 2018 RC_1, 3, 1, 0; 2018 RD_1, 3, 1, 0; 2018 RE_1, 3, 1, 0; 2018 RN_1, 2, 1, 0; 2018 RX_1, 4, 1, 0; 2018 RA_2, 3, 1, 0; 2018 RB_2, 3, 1, 0; 2018 RD_2, 3, 1, 0; 2018 RF_2, 2, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RZ_2, 3, 1, 0; 2018 RB_3, 5, 1, 0; 2018 RC_3, 3, 1, 0; 2018 RE_3, 3, 1, 0; 2018 RF_3, 3, 1, 0; 2018 RG_3, 3, 1, 0; 2018 RH_3, 3, 1, 0; 2018 RS_3, 3, 1, 0; 2018 RU_3, 3, 1, 0; 2018 RV_3, 2, 1, 0; 2018 RX_3, 3, 1, 0; 2018 RY_3, 3, 1, 0; 2018 RZ_3, 3, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RC_4, 3, 1, 0; 2018 RD_4, 3, 1, 0; 2018 RM_4, 3, 1, 0; 2018 RO_4, 3, 1, 0; 2018 RB_5, 3, 1, 0; 2018 RO_5, 3, 1, 0; 2018 RP_5, 3, 1, 0; 2018 RQ_5, 3, 1, 0; 2018 RT_5, 4, 1, 0; 2018 RY_5, 3, 1, 0; 2018 RB_6, 3, 1, 0; 2018 RC_6, 3, 1, 0; 2018 RF_6, 3, 1, 0; 2018 RJ_6, 3, 1, 0; 2018 RK_6, 3, 1, 0; 2018 RX_6, 3, 1, 0; 2018 RC_7, 3, 1, 0; 2018 RD_7, 3, 1, 0; 2018 RH_7, 3, 1, 0; 2018 RM_7, 3, 1, 0; 2018 RN_7, 3, 1, 0; 2018 RO_7, 3, 1, 0; 2018 RD_8, 3, 1, 0; 2018 RE_8, 3, 1, 0; 2018 RF_8, 4, 1, 0; 2018 RO_8, 4, 1, 0; 2018 RP_8, 3, 1, 0; 2018 RR_8, 3, 1, 0; (7481), 2, 1, 0; (14964), 2, 1, 0; (159537), 2, 1, 0; (184259), 2, 1, 0; (495829), 2, 1, 0; *[478, 152, 0*, 1995/01/27–2018/09/16]*

106 Črni Vrh
H. Mikuž, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]
Observers H. Mikuž, B. Mikuž, J. Vales, J. Skvarč, S. Matičič
0.6-m $f/3.3$ Deltagraph + CCD
UCAC-2
1999 VQ_{11}, 4, 1, 0; 2000 RS_{77}, 4, 1, 0; 2001 QQ_{106}, 4, 1, 0; 2001 QW_{130}, 4, 1, 0; 2002 ND_{71}, 4, 1, 0; 2005 QN_{111}, 4, 1, 0; 2005 QG_{169}, 4, 1, 0; 2005 WO_{212}, 4, 1, 0; 2006 KF_{146}, 8, 2, 15; 2007 CZ_{56}, 4, 1, 0; 2007 JV_{46}, 4, 1, 0; 2008 BO_{55}, 4, 1, 0; 2008 QV_{48} *, 4, 1, 0; 2010 HL_{30}, 4, 1, 0; 2010 OS_{75}, 4, 1, 0; 2010 VA_{100}, 4, 1, 0; 2011 QW_{100}, 4, 1, 0; 2011 SX_{280}, 4, 1, 0; 2011 XP_4, 4, 1, 0; 2011 YU_{80} *, 4, 1, 0; 2012 RQ_{44}, 4, 1, 0; 2012 TY_{78}, 4, 1, 0; 2013 QC_{16}, 4, 1, 0; 2013 QK_{96} *, 4, 1, 0; 2013 RA_{108} *, 4, 1, 0; 2013 XB_{28} *, 4, 1, 0; 2014 AP_{13}, 4, 1, 0; 2014 MS_{78}, 4, 1, 0; 2014 NX_{63}, 4, 1, 0; 2014 ST_{330}, 4, 1, 0; 2014 UX_{192}, 4, 1, 0; 2014 VB_{20}, 4, 1, 0; 2014 WU_{165}, 4, 1, 0; 2014 WV_{346}, 4, 1, 0; 2014 WX_{349}, 4, 1, 0; 2014 WE_{479}, 4, 1, 0; 2014 WL_{535}, 4, 1, 0; 2014 WQ_{535}, 4, 1, 0; 2014 XA_{22}, 4, 1, 0; 2015 AW_{269}, 4, 1, 0; 2015 BU_{565}, 4, 1, 0; 2015 LW_{24}, 4, 1, 0; 2016 FQ_7, 4, 1, 0; 2016 PZ_{127}, 4, 1, 0; 2017 DO_{64}, 4, 1, 0; 2017 SS_{128}, 4, 1, 0; 2017 SK_{132}, 4, 1, 0; 2018 MO_4, 4, 1, 0; 2018 NZ_2, 2, 1, 0; 2018 ND_4, 2, 1, 0; 2018 NF_4, 4, 1, 0; 2018 NL_4, 3, 1, 0; 2018 PK_{18} *, 4, 1, 0; 2018 PJ_{22}, 4, 1, 0; 2018 PE_{26}, 4, 1, 0; 2018 PG_{26}, 4, 1, 0; 2018 QE, 3, 1, 0; 2018 QL, 4, 1, 0; 2018 QF_1, 2, 1, 0; 2018 QD_4, 4, 1, 0; 2018 QD_6, 4, 1, 0; 2018 RP_3, 4, 1, 0; 2018 RX_4 *, 4, 1, 0; 2018 RL_5, 4, 1, 0; 2018 RM_{11}, 4, 1, 0; 2018 RG_{12}, 4, 1, 0; 2018 RO_{14}, 4, 1, 0; 2018 RW_{14}, 4, 1, 0; 2018 RX_{14}, 4, 1, 0; 2018 RD_{17} *, 4, 1, 0; 2018 RF_{17} *, 4, 1, 0; 2018 RJ_{17} *, 4, 1, 0; 2018 RK_{17} *, 4, 1, 0; 2018 RV_{18}, 14, 4, 38; 2018 SY *, 4, 1, 0; (983), 4, 1, 0; (1320), 4, 1, 0; (1579), 4, 1, 0; (1842), 4, 1, 0; (2954), 4, 1, 0; (3223), 4, 1, 0; (3287), 4, 1, 0; (4036), 4, 1, 0; (4116), 4, 1, 0; (4194), 4, 1, 0; (4371), 4, 1, 0; (4583), 4, 1, 0; (4934), 4, 1, 0; (5107), 4, 1, 0; (5838), 4, 1, 0; (6210), 4, 1, 0; (6262), 4, 1, 0; (6425), 8, 2, 52; (6654), 4, 1, 0; (7002), 4, 1, 0; (7662), 4, 1, 0; (7803), 4, 1, 0; (8818), 4, 1, 0; (8989), 4, 1, 0; (10918), 4, 1, 0; (10931), 4, 1, 0; (11070), 4, 1, 0; (11557), 4, 1, 0; (11921), 4, 1, 0; (12492), 4, 1, 0; (12820), 4, 1, 0; (13103), 4, 1, 0; (13325), 4, 1, 0; (13553), 4, 1, 0; (14376), 4, 1, 0; (14414), 4, 1, 0; (14903), 4, 1, 0; (14904), 4, 1, 0; (14969), 4, 1, 0; (15242), 4, 1, 0; (15625), 4, 1, 0; (15674), 4, 1, 0; (15970), 4, 1, 0; (15987), 4, 1, 0; (16677), 4, 1, 0; (17274), 4, 1, 0; (17436), 4, 1, 0; (17774), 4, 1, 0; (18254), 4, 1, 0; (18352), 4, 1, 0; (18396), 4, 1, 0; (19049), 4, 1, 0; (19075), 4, 1, 0; (19265), 4, 1, 0; (19466), 4, 1, 0; (20182), 4, 1, 0; (20285), 4, 1, 0; (20329), 4, 1, 0; (20586), 4, 1, 0; (20706), 4, 1, 0; (20890), 4, 1, 0; (20958), 4, 1, 0; (21245), 4, 1, 0; (21525), 4, 1, 0; (21673), 4, 1, 0; (21962), 4, 1, 0; (22240), 4, 1, 0; (22310), 4, 1, 0; (22656), 4, 1, 0; (22670), 4, 1, 0; (22899), 4, 1, 0; (23935), 4, 1, 0; (24085), 4, 1, 0; (24410), 4, 1, 0; (24430), 4, 1, 0; (24767), 4, 1, 0; (25680), 4, 1, 0; (25850), 4, 1, 0; (26029), 4, 1, 0; (26450), 4, 1, 0; (27139), 4, 1, 0; (27153), 4, 1, 0; (27202), 4, 1, 0; (27324), 4, 1, 0; (27561), 4, 1, 0; (27851), 4, 1, 0; (27990), 4, 1, 0; (28227), 4, 1, 0; (28345), 4, 1, 0; (28758), 4, 1, 0; (28896), 4, 1, 0; (29116), 4, 1, 0; (29431), 4, 1, 0; (29784), 4, 1, 0; (29864), 4, 1, 0; (30539), 4, 1, 0; (30867), 4, 1, 0; (31033), 4, 1, 0; (31186), 4, 1, 0; (31463), 4, 1, 0; (31685), 4, 1, 0; (31725), 4, 1, 0; (32238), 4, 1, 0; (32622), 4, 1, 0; (32728), 4, 1, 0; (32796), 4, 1, 0; (33477), 4, 1, 0; (33661), 4, 1, 0; (33664), 4, 1, 0; (33912), 4, 1, 0; (34056), 4, 1, 0; (34075), 4, 1, 0; (35398), 4, 1, 0; (35904), 4, 1, 0; (36410), 4, 1, 0; (37032), 4, 1, 0; (37067), 4, 1, 0; (37782), 4, 1, 0; (37857), 4, 1, 0; (38189), 4, 1, 0; (38284), 4, 1, 0; (38651), 4, 1, 0; (39172), 4, 1, 0; (39217), 4, 1, 0; (39333), 4, 1, 0; (39387), 4, 1, 0; (39960), 4, 1, 0; (40623), 4, 1, 0; (41484), 4, 1, 0; (41552), 4, 1, 0; (41803), 4, 1, 0; (42279), 4, 1, 0; (42807), 4, 1, 0; (42873), 4, 1, 0; (42925), 4, 1, 0; (43273), 4, 1, 0; (43524), 4, 1, 0; (43746), 4, 1, 0; (43908), 4, 1, 0; (43947), 4, 1, 0; (45259), 4, 1, 0; (45624), 4, 1, 0; (46306), 4, 1, 0; (46601), 4, 1, 0; (47022), 4, 1, 0; (47105), 4, 1, 0; (47291), 4, 1, 0; (47627), 4, 1, 0; (47658), 4, 1, 0; (47797), 4, 1, 0; (47820), 4, 1, 0; (48218), 4, 1, 0; (48244), 4, 1, 0; (49368), 4, 1, 0; (51283), 4, 1, 0; (51658), 4, 1, 0; (51713), 4, 1, 0; (51806), 4, 1, 0; (51813), 4, 1, 0; (51974), 4, 1, 0; (52482), 4, 1, 0; (52695), 4, 1, 0; (52808), 4, 1, 0; (53391), 4, 1, 0; (54240), 4, 1, 0; (54434), 4, 1, 0; (54575), 4, 1, 0; (54756), 4, 1, 0; (55211), 4, 1, 0; (55280), 4, 1, 0; (55566), 4, 1, 0; (55716), 4, 1, 0; (56183), 4, 1, 0; (56380), 4, 1, 0; (56474), 4, 1, 0; (57263), 4, 1, 0; (57917), 4, 1, 0; (57998), 4, 1, 0; (59149), 4, 1, 0; (59198), 4, 1, 0; (59257), 4, 1, 0; (60586), 4, 1, 0; (61110), 4, 1, 0; (61317), 4, 1, 0; (61824), 4, 1, 0; (62313), 4, 1, 0; (62320), 4, 1, 0; (63013), 4, 1, 0; (63521), 4, 1, 0; (63874), 4, 1, 0; (64157), 4, 1, 0; (64160), 4, 1, 0; (64216), 4, 1, 0; (65610), 4, 1, 0; (65798), 4, 1, 0; (65837), 4, 1, 0; (66046), 4, 1, 0; (66225), 4, 1, 0; (66575), 4, 1, 0; (67508), 4, 1, 0; (67867), 4, 1, 0; (68412), 4, 1, 0; (68451), 4, 1, 0; (70486), 4, 1, 0; (70983), 4, 1, 0; (71316), 4, 1, 0; (72308), 4, 1, 0; (72556), 4, 1, 0; (72997), 4, 1, 0; (73109), 4, 1, 0; (73526), 4, 1, 0; (73880), 4, 1, 0; (75721), 4, 1, 0; (76583), 4, 1, 0; (77895), 4, 1, 0; (78875), 4, 1, 0; (79823), 4, 1, 0; (80492), 4, 1, 0; (81532), 4, 1, 0; (81808), 4, 1, 0; (82684), 4, 1, 0; (83206), 4, 1, 0; (83439), 4, 1, 0; (83674), 4, 1, 0; (84148), 4, 1, 0; (84370), 4, 1, 0; (84695), 4, 1, 0; (84826), 4, 1, 0; (84862), 4, 1, 0; (85571), 4, 1, 0; (85923), 4, 1, 0; (86346), 4, 1, 0; (87450), 4, 1, 0; (87661), 4, 1, 0; (87997), 4, 1, 0; (88538), 4, 1, 0; (88547), 4, 1, 0; (88601), 4, 1, 0; (89037), 4, 1, 0; (89053), 4, 1, 0; (89272), 4, 1, 0; (89405), 4, 1, 0; (89470), 4, 1, 0; (92444), 4, 1, 0; (93208), 4, 1, 0; (93575), 4, 1, 0; (94403), 4, 1, 0; (94899), 4, 1, 0; (95803), 4, 1, 0; (96309), 4, 1, 0; (96700), 4, 1, 0; (98021), 4, 1, 0; (100480), 4, 1, 0; (100755), 4, 1, 0; (103760), 4, 1, 0; (104140), 4, 1, 0; (104417), 4, 1, 0; (104589), 4, 1, 0; (104767), 4, 1, 0; (104955), 4, 1, 0; (106086), 4, 1, 0; (107164), 8, 1, 0; (108679), 4, 1, 0; (108875), 4, 1, 0; (109171), 4, 1, 0; (109405), 4, 1, 0; (109487), 4, 1, 0; (109607), 4, 1, 0; (109771), 4, 1, 0; (110006), 4, 1, 0; (110014), 4, 1, 0; (111019), 4, 1, 0; (111021), 4, 1, 0; (111179), 4, 1, 0; (112553), 4, 1, 0; (113792), 4, 1, 0; (113838), 4, 1, 0; (115605), 4, 1, 0; (116592), 4, 1, 0; (117817), 4, 1, 0; (119073), 4, 1, 0; (120487), 4, 1, 0; (120671), 4, 1, 0; (124187), 4, 1, 0; (126470), 4, 1, 0; (127139), 4, 1, 0; (128294), 4, 1, 0; (129846), 4, 1, 0; (130359), 8, 2, 52; (131906), 4, 1, 0; (132284), 4, 1, 0; (134227), 4, 1, 0;

(134727), 4, 1, 0; (135410), 4, 1, 0; (135702), 4, 1, 0; (136494), 4, 1, 0; (137018), 4, 1, 0; (138944), 4, 1, 0; (139352), 4, 1, 0; (141527), 4, 1, 0; (146544), 4, 1, 0; (146713), 4, 1, 0; (147732), 4, 1, 0; (148725), 4, 1, 0; (151078), 4, 1, 0; (151632), 4, 1, 0; (152272), 4, 1, 0; (152674), 4, 1, 0; (153929), 4, 1, 0; (156054), 4, 1, 0; (158214), 4, 1, 0; (158346), 4, 1, 0; (161022), 4, 1, 0; (162299), 4, 1, 0; (162601), 4, 1, 0; (165686), 4, 1, 0; (165804), 4, 1, 0; (167046), 4, 1, 0; (167686), 4, 1, 0; (170096), 4, 1, 0; (170625), 4, 1, 0; (170690), 4, 1, 0; (174373), 4, 1, 0; (179288), 4, 1, 0; (182313), 4, 1, 0; (183334), 4, 1, 0; (186194), 4, 1, 0; (191223), 4, 1, 0; (191330), 4, 1, 0; (191970), 4, 1, 0; (195051), 4, 1, 0; (199423), 4, 1, 0; (200560), 4, 1, 0; (203290), 4, 1, 0; (203387), 4, 1, 0; (205490), 4, 1, 0; (206275), 4, 1, 0; (207416), 4, 1, 0; (209600), 4, 1, 0; (215537), 4, 1, 0; (216460), 4, 1, 0; (216563), 4, 1, 0; (223653), 4, 1, 0; (226838), 4, 1, 0; (227550), 4, 1, 0; (235392), 4, 1, 0; (241703), 4, 1, 0; (242966), 4, 1, 0; (245101), 4, 1, 0; (248018), 4, 1, 0; (248701), 4, 1, 0; (249109), 4, 1, 0; (253704), 4, 1, 0; (256238), 4, 1, 0; (256271), 4, 1, 0; (257630), 4, 1, 0; (258236), 4, 1, 0; (262227), 4, 1, 0; (264676), 4, 1, 0; (270993), 4, 1, 0; (275855), 4, 1, 0; (293966), 4, 1, 0; (295232), 4, 1, 0; (306657), 4, 1, 0; (307615), 4, 1, 0; (310466), 4, 1, 0; (312071), 4, 1, 0; (313534), 4, 1, 0; (313672), 4, 1, 0; (318364), 4, 1, 0; (323911), 4, 1, 0; (328713), 4, 1, 0; (331017), 4, 1, 0; (332435), 4, 1, 0; (334558), 4, 1, 0; (334671), 4, 1, 0; (335651), 4, 1, 0; (339697), 4, 1, 0; (347595), 4, 1, 0; (347639), 4, 1, 0; (358558), 4, 1, 0; (365683), 4, 1, 0; (370494), 4, 1, 0; (373767), 4, 1, 0; (377053), 4, 1, 0; (378434), 8, 2, 52; (378918), 4, 1, 0; (396746), 4, 1, 0; (397507), 4, 1, 0; (401810), 4, 1, 0; (405190), 4, 1, 0; (406087), 4, 1, 0; (408831), 4, 1, 0; (409002), 4, 1, 0; (413912), 4, 1, 0; (416934), 4, 1, 0; (418871), 4, 1, 0; (428380), 4, 1, 0; (430383), 4, 1, 0; (446800), 4, 1, 0; (452647), 4, 1, 0; (456359), 4, 1, 0; (456398), 4, 1, 0; (463642), 4, 1, 0; (464400), 4, 1, 0; (468141), 4, 1, 0; (494786), 4, 1, 0; (518779), 4, 1, 0; (522232), 4, 1, 0; *[1958, 484, 12*, 2008/04/27–2018/09/19]*

108 Montelupo

M. Tombelli, Via Bozzeto 26, I-50056 Montelupo (Fi), Italy
[iau@arcetri.astro.it]
Observers M. Tombelli, M. Lombardo, Y. Mazzanti, G. Interrante, E. Masotti, S. Foglia, L. Martinelli, A. Mazzanti, A. Marku, G. Vettori, G. Interra, T. Bitossi, S. Bartolini

0.30-m $f/2.9$ Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4

2013 EP_{41}, 3, 1, 0; 2018 NB, 4, 1, 0; 2018 RC, 9, 2, 3; 2018 RQ_2, 4, 1, 0; (176), 2, 1, 0; (238), 4, 1, 0; (407), 3, 1, 0; (409), 2, 1, 0; (660), 4, 1, 0; (774), 3, 1, 0; (1036), 3, 1, 0; (1292), 4, 1, 0; (1363), 3, 1, 0; (1627), 8, 2, 27; (1939), 3, 1, 0; (2105), 3, 1, 0; (2709), 3, 1, 0; (2842), 2, 1, 0; (3149), 4, 1, 0; (4967), 3, 1, 0; (6069), 3, 1, 0; (6309), 2, 1, 0; (6876), 3, 1, 0; (7481), 3, 1, 0; (7715), 3, 1, 0; (8128), 3, 1, 0; (9000), 3, 1, 0; (9891), 3, 1, 0; (13016), 3, 1, 0; (13553), 3, 1, 0; (13638), 3, 1, 0; (13740), 2, 1, 0; (13874), 2, 1, 0; (15418), 3, 1, 0; (15745), 3, 1, 0; (17077), 3, 1, 0; (20194), 2, 1, 0; (24363), 2, 1, 0; (25916), 6, 1, 0; (26377), 2, 1, 0; (26796), 7, 2, 1; (27352), 4, 1, 0; (29863), 6, 1, 0; (42799), 3, 1, 0; (49602), 2, 1, 0; (51119), 4, 1, 0; (53840), 2, 1, 0; (63437), 6, 2, 1; (66391), 3, 1, 0; (67365), 3, 1, 0; (78188), 2, 1, 0; (98066), 3, 1, 0; (138373), 3, 1, 0; (148012), 3, 1, 0; (159537), 2, 1, 0; (398188), 3, 1, 0; *[187, 56, 0*, 2018/06/02–2018/09/08]*

113 Volkssternwarte Drebach, Schoenbrunn

G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany
[g.l@kleinplanetenseite.de]
Observers A. Knöfel, G. Lehmann

0.5-m $f/4.6$ reflector + CCD
Gaia-DR2, UCAC-4

1999 RB_{32}, 3, 1, 0; 2005 RB, 6, 2, 6; 2007 CZ_{56}, 3, 1, 0; 2007 RX_{19}, 3, 1, 0; 2011 UA, 7, 2, 6; 2013 EP_{41}, 3, 1, 0; 2015 AX_{16}, 3, 1, 0; 2015 FP_{118}, 4, 1, 0; 2015 RJ_{83}, 3, 1, 0; 2018 KE_3, 9, 3, 7; 2018 MM_8, 2, 1, 0; 2018 QU_1, 7, 2, 1; 2018 QV_1, 3, 1, 0; 2018 RC, 12, 2, 1; 2018 RM, 3, 1, 0; 2018 RQ_2, 4, 1, 0; 2018 RD_5, 4, 1, 0; 2018 RO_5, 4, 1, 0; 2018 RB_6, 3, 1, 0; (1964), 3, 1, 0; (5103), 3, 1, 0; (7768), 3, 1, 0; (11055), 3, 1, 0; (15382), 4, 1, 0; (27199), 3, 1, 0; (44556), 3, 1, 0; (48140), 3, 1, 0; (51066), 3, 1, 0; (52268), 3, 1, 0; (64232), 3, 1, 0; (95972), 3, 1, 0; (108876), 3, 1, 0; (148012), 3, 1, 0; (197445), 3, 1, 0; (234429), 3, 1, 0; *[135, 35, 0*, 2018/09/04–2018/09/12]*

114 Engelhardt Observatory, Zelenchukskaya Station

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0.40-m $f/5$ camera

2008 CV_{218}, 4, 1, 0; 2008 SV_{313}, 4, 2, 21; 2015 TF_{387}, 5, 1, 0; 2018 RB_{27}, 9, 2, 12; *[22, 4, 0*, 2011/02/25–2011/11/03]*

118 Modra

Š. Gajdoš, FMFI UK, P.O. Box 4, SK-90001 Modra, Slovakia
[ago@fmph.uniba.sk]
Observers Š. Gajdoš, A. Galád

0.6-m $f/5.5$ reflector + CCD
Gaia-DR1, Gaia-DR2, UCAC-3

2011 SB_{88}, 4, 1, 0; 2013 CK_{211}, 2, 1, 0; 2014 LH_{30}, 2, 1, 0; 2014 QG_{413}, 2, 1, 0; 2014 WL_{496}, 3, 1, 0; 2016 MQ_3, 2, 1, 0; 2017 KR_{21}, 2, 1, 0; 2018 MM_8, 4, 1, 0; 2018 MR_8, 3, 1, 0; 2018 PJ_{22}, 3, 1, 0; 2018 PO_{23}, 2, 1, 0; 2018 QL, 3, 1, 0; 2018 QF_1, 2, 1, 0; 2018 QG_1, 3, 1, 0; 2018 RL, 2, 1, 0; 2018 RP_8, 3, 1, 0; 2018 RU_8, 2, 1, 0; 2018 RV_8 *, 13, 4, 5; 2018 SV, 2, 1, 0; (1959), 27, 9, 57; (2011), 9, 3, 27; (2508), 34, 11, 58; (3153), 12, 4, 30; (3268), 8, 3, 28; (3900), 3, 1, 0; (5379), 13, 5, 47; (5875), 7, 2, 2; (7578), 8, 3, 4; (9968), 3, 1, 0; (10541), 6, 2, 3; (13705), 3, 1, 0; (17972), 3, 1, 0; (19413), 2, 1, 0; (19475), 2, 1, 0; (19480), 3, 1, 0; (22850), 3, 1, 0; (32469), 3, 1, 0; (34355), 4, 1, 0; (53798), 3, 1, 0; (55312), 2, 1, 0; (67119), 5, 2, 1; (67839), 3, 1, 0; (72041), 10, 3, 3; (72728), 3, 1, 0; (72900), 3, 1, 0; (77913), 7, 2, 2; (81413), 3, 1, 0; (90670), 4, 1, 0; (91507), 2, 1, 0; (92289), 2, 1, 0; (92846), 3, 1, 0; (95322), 2, 1, 0; (98130), 2, 1, 0; (98283), 3, 1, 0; (100483), 4, 2, 3; (105039), 5, 2, 1; (108251), 3, 1, 0; (130504), 5, 2, 3; (130559), 8, 2, 1; (146400), 3, 1, 0; (164267), 3, 1, 0; (165663), 7, 2, 2; (165700), 5, 2, 2; (169156), 5, 2, 3; (169309), 8, 2, 2; (174495), 3, 1, 0; (176231), 2, 1, 0; (179985), 3, 1, 0; (199022), 3, 1, 0; (201410), 11, 3, 6; (202426), 3, 1, 0; (203774), 3, 1, 0; (208684), 2, 1, 0; (213992), 3, 1, 0; (216629), 3, 1, 0; (226046), 2, 1, 0; (251228), 4, 1, 0; (256228), 2, 1, 0; (259972), 2, 1, 0; (313776), 2, 1, 0; (372205), 6, 2, 1; (380485), 3, 1, 0; (380680), 2, 1, 0; (409013), 3, 1, 0; (409192), 3, 1, 0; (456559), 3, 1, 0; (462404), 4, 2, 4; (483590), 2, 1, 0; (523406), 5, 2, 1; *[404, 89, 1*, 2017/11/16–2018/09/18]*

122 Pises Observatory

J.-M. Lopez, 5 Rue Meyrueis, F-34000 Montpellier, France
[jean.m.lopez2@wanadoo.fr]

0.50-m $f/4.4$ reflector + CCD
UCAC-4

2001 SK_{276}, 3, 1, 0; 2002 OS_4, 3, 1, 0; 2009 QJ_9, 3, 1, 0; 2018 KE_3, 3, 1, 0; 2018 RK_{10}, 4, 1, 0; (719), 3, 1, 0; (13553), 3, 1, 0; (21277), 4, 1, 0; (78758), 4, 1, 0; (86324), 3, 1, 0; (137125), 3, 1, 0; (138847), 4, 1, 0; (253070), 4, 1, 0; (283729), 7, 2, 8; (418929), 3, 1, 0; (438429), 3, 1, 0; (518635), 3, 1, 0; *[60, 17, 0*, 2018/08/02–2018/09/11]*

134 Groszschwabhausen

H.-G. Reimann, Universitaets-Sternwarte Jena, Schillergäßchen 2, D-07745 Jena, Germany [rei@astro.uni-jena.de]
Observers M. Mugrauer, V. C. Munz, M. Geymeier, F. Schiefeneder

0.90-m $f/2$ Schmidt + CCD
Gaia-DR2

(14095), 232, 1, 0; (51335), 2, 1, 0; (53768), 2, 1, 0; (56816), 2, 1, 0; (63642), 2, 1, 0; (102099), 2, 1, 0; (113774), 2, 1, 0; (122508), 2, 1, 0; (517717), 3, 1, 0; *[249, 9, 0*, 2018/06/20–2018/07/26]*

151 Eschenberg Observatory, Winterthur

M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland
[griesser@spectraweb.ch]

0.60-m $f/3.8$ astrograph + CCD
UCAC-4, URAT-1

2003 RC_2, 5, 1, 0; 2004 QB_{17}, 4, 1, 0; 2006 OT_9, 3, 1, 0; 2009 SX_1, 3, 1, 0; 2011 UA, 7, 1, 0; 2013 EP_{41}, 7, 1, 0; 2015 FP_{118}, 7, 1, 0; 2015 RJ_{83}, 7, 1, 0; 2018 KE_3, 7, 1, 0; 2018 LD_3, 3, 1, 0; 2018 NH, 4, 1, 0; 2018 PJ_{22}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 PK_{24}, 5, 1, 0; 2018 QT, 8, 2, 4; 2018 QU_1, 3, 1, 0; 2018 RB, 7, 1, 0; 2018 RF_2, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RF_3, 4, 1, 0; 2018 RH_3, 5, 1, 0; 2018 RF_8, 4, 1, 0; 2018 SB, 5, 1, 0; (582), 4, 1, 0; (4183), 3, 1, 0; (6456), 3, 1, 0; (31345), 4, 1, 0; (140039), 3, 1, 0; (201037), 3, 1, 0; (481394), 3, 1, 0; *[133, 30, 0*, 2018/06/20–2018/09/17]*

152 Moletai Astronomical Observatory

K. Černis, Institute of Theoretical Physics and Astronomy, Vilnius University, Sauletekio al. 3, Vilnius, LT-10257, Lithuania [Kazimieras.Černis@tfai.vu.lt]

Observers K. Černis, H. Selevicius
0.35-m $f/3.5$ reflector + CCD
UCAC-2, UCAC-3

2010 AU_{142}, 3, 1, 0; 2010 AB_{144}, 2, 1, 0; 2010 AC_{144}, 4, 1, 0; 2010 RA_{190} *, 3, 1, 0; (3349), 5, 1, 0; (17880), 3, 1, 0; (38893), 3, 1, 0; (41935), 7, 2, 1; (44497), 6, 1, 0; (55812), 3, 1, 0; (72277), 1, 1, 0; (87114), 2, 1, 0; (101027), 3, 1, 0; (103339), 2, 1, 0; (157475), 3, 1, 0; (229978), 3, 1, 0; (230159), 3, 1, 0; (230187), 3, 1, 0; (230221), 12, 3, 2; (231758), 7, 2, 1; (270049), 7, 1, 0; (275528), 6, 2, 1; (285849), 4, 1, 0; (433999), 6, 2, 1; (446799), 2, 1, 0; *[103, 25, 1*, 2010/01/22–2010/09/08]*

157 Frasso Sabino
R. Haver, Via dei Giornalisti 64, I-00135 Rome, Italy [me3540@mclink.it]
Observers R. Haver, R. Gorelli
0.37-m $f/6.70$ Cassegrain + CCD
UCAC-4

1999 LW_1, 3, 1, 0; 2005 RB, 3, 1, 0; 2014 NW_{65}, 9, 4, 33; 2015 RB_{82}, 4, 1, 0; 2016 ND_{21}, 3, 1, 0; 2018 GA_5, 3, 1, 0; 2018 JE_5, 3, 1, 0; 2018 KT, 2, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LT_4, 3, 1, 0; 2018 LT_6, 3, 1, 0; 2018 MM_8, 4, 1, 0; 2018 MR_8, 5, 1, 0; 2018 NE_1, 3, 1, 0; 2018 NU_3, 3, 1, 0; 2018 PC, 2, 1, 0; 2018 PU_7, 3, 1, 0; 2018 PH_{10}, 2, 1, 0; (6740), 4, 1, 0; (9903), 3, 1, 0; (87776), 2, 1, 0; (139289), 6, 1, 0; (146063), 2, 1, 0; (146438), 3, 1, 0; (153957), 6, 1, 0; (159537), 16, 2, 5; (163664), 2, 1, 0; (283114), 2, 1, 0; (364392), 2, 1, 0; (385268), 2, 1, 0; (436771), 4, 1, 0; (517717), 11, 2, 7; *[126, 32, 0*, 2018/06/09–2018/08/11]*

160 Castelmartini
E. Prosperi, Via Bartolini 127, I-51030 Castelmartini (PT), Italy [e.prosperi@alice.it]
Observers E. Prosperi, S. Prosperi, M. Jaeger, W. Vollmann
Measurer E. Prosperi
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1, PPMXL, URAT-1

1999 RB_{32}, 27, 9, 26; 1999 VQ_{11}, 26, 9, 28; 2000 SB_1, 11, 4, 11; 2001 SC_{170}, 33, 11, 29; 2002 OS_4, 50, 17, 41; 2005 RB, 18, 6, 14; 2007 RX_{19}, 9, 3, 4; 2009 OG, 12, 4, 10; 2009 QJ_9, 6, 2, 1; 2011 GA_{62}, 84, 26, 66; 2011 UA, 12, 4, 5; 2012 BV_{26}, 6, 2, 1; 2012 OD_1, 9, 3, 5; 2012 UV_{27}, 3, 1, 0; 2013 EP_{41}, 30, 10, 29; 2014 NE_3, 22, 7, 12; 2014 WG_{365}, 3, 1, 0; 2015 AX_{16}, 27, 9, 24; 2015 BR_{514}, 33, 11, 26; 2015 OH, 22, 7, 12; 2015 RJ_{83}, 11, 4, 13; 2015 SW_6, 5, 1, 0; 2015 XK_1, 9, 3, 25; 2016 NF_{23}, 3, 1, 0; 2017 YE_5, 6, 2, 3; 2018 GA_5, 18, 6, 27; 2018 JA, 9, 2, 1; 2018 JE_1, 3, 1, 0; 2018 JK_3, 3, 1, 0; 2018 KM_1, 3, 1, 0; 2018 KN_2, 3, 1, 0; 2018 KE_3, 21, 7, 21; 2018 LQ_2, 15, 5, 13; 2018 LD_3, 3, 1, 0; 2018 LN_4, 3, 1, 0; 2018 LF_5, 6, 2, 2; 2018 LX_5, 12, 2, 2; 2018 LT_6, 5, 1, 0; 2018 MX_6, 7, 1, 0; 2018 MB_7, 6, 2, 1; 2018 MK_8, 5, 1, 0; 2018 MM_8, 43, 14, 55; 2018 MR_8, 24, 8, 18; 2018 NA, 3, 1, 0; 2018 NB, 35, 12, 66; 2018 NQ, 11, 3, 4; 2018 NV, 9, 3, 3; 2018 NE_1, 6, 2, 1; 2018 NV_2, 4, 1, 0; 2018 NU_3, 3, 1, 0; 2018 NG_4, 3, 1, 0; 2018 NN_4, 18, 6, 11; 2018 OZ, 2, 1, 0; 2018 PB, 3, 1, 0; 2018 PC, 5, 1, 0; 2018 PW_7, 9, 3, 3; 2018 PL_8, 3, 1, 0; 2018 PJ_9, 4, 1, 0; 2018 PL_9, 3, 1, 0; 2018 PG_{10}, 5, 1, 0; 2018 PJ_{10}, 13, 4, 3; 2018 PL_{10}, 19, 5, 5; 2018 PM_{10}, 5, 1, 0; 2018 PK_{20}, 4, 1, 0; 2018 PO_{22}, 5, 1, 0; 2018 PO_{23}, 5, 1, 0; 2018 QT, 3, 1, 0; 2018 QG_1, 14, 5, 14; 2018 QU_1, 8, 2, 3; 2018 QW_1, 6, 2, 3; 2018 RC, 3, 1, 0; 2018 RM, 8, 3, 2; 2018 RD_1, 11, 3, 2; 2018 RA_2, 3, 1, 0; 2018 RB_2, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RY_3, 6, 1, 0; 2018 RZ_3, 5, 1, 0; 2018 RP_5, 5, 1, 0; 2018 RT_5, 5, 1, 0; 2018 RB_6, 5, 1, 0; 2018 RF_6, 5, 1, 0; (91), 6, 1, 0; (433), 3, 1, 0; (719), 30, 10, 85; (944), 8, 3, 8; (1627), 15, 5, 26; (1981), 6, 2, 133; (2061), 21, 7, 62; (3552), 18, 6, 21; (6456), 9, 3, 7; (7889), 27, 9, 35; (9856), 9, 3, 8; (11500), 12, 4, 7; (13553), 51, 17, 76; (14402), 21, 7, 25; (15745), 21, 7, 29; (16834), 23, 8, 48; (16960), 9, 3, 10; (17274), 6, 2, 3; (18882), 17, 6, 13; (21277), 27, 9, 36; (25916), 3, 1, 0; (31345), 39, 13, 50; (37117), 6, 2, 3; (65706), 31, 11, 40; (65996), 39, 13, 47; (66391), 21, 7, 37; (68347), 18, 6, 8; (68950), 63, 21, 95; (85989), 3, 1, 0; (86039), 15, 5, 14; (86324), 24, 8, 29; (86878), 18, 6, 14; (87311), 23, 8, 15; (115052), 6, 2, 3; (137125), 3, 1, 0; (138847), 37, 11, 48; (139289), 3, 1, 0; (139345), 27, 9, 36; (140039), 27, 9, 19; (141527), 12, 4, 10; (152637), 6, 2, 22; (153957), 18, 6, 8; (162168), 72, 24, 74; (162483), 9, 3, 5; (163132), 3, 1, 0; (163818), 3, 1, 0; (180186), 9, 3, 4; (220839), 3, 1, 0; (253062), 3, 1, 0; (267729), 3, 1, 0; (283729), 51, 17, 60; (333889), 3, 1, 0; (337248), 3, 1, 0; (350988), 6, 2, 3; (365246), 3, 1, 0; (398188), 36, 12, 40; (414960), 18, 6, 13; (415029), 50, 17, 58; (418929), 27, 9, 24; (438429), 60, 20, 58; (441987), 12, 4, 10; (450648), 3, 1, 0; (455550), 42, 14, 48; (457260), 10, 4, 14; (467309), 12, 4, 24; (469737), 12, 4, 11; (481394), 9, 3, 9; (495829), 12, 4, 10; (518463), 3, 1, 0; (518635), 21, 7, 18; (518640), 3, 1, 0; *[2218, 153, 0*, 2018/03/26–2018/09/14]*

166 Upice
L. Vyskočil, Havlíčkova 18, CZ-54401 Dvůr Králové, Czech Republic [lvyskocil@post.cz]
Observers M. Masek, M. Tylsar
0.20-m $f/5$ reflector + CCD
UCAC-4

2018 GA_5, 2, 1, 0; *[2, 1, 0*, 2018/08/17]*

168 Kourovskaya
G. S. Romashin, Kourovskaya Astronomical Observatory, Sloboda, Pervouralskij region, 623072 Sverdlovsk Oblast, Russia [edkuz@astro.urgu.e-burg.su]
Observers D. Glamazda, A. Shagabutdinov, Y. Wiebe
Measurers Y. Wiebe, G. Kaiser
0.40-m $f/0.78$ Schmidt + CCD
UCAC-4

2015 QM_3, 3, 1, 0; 2018 NB, 13, 3, 4; 2018 PL_{10}, 3, 1, 0; (461), 5, 1, 0; (644), 3, 1, 0; (1270), 8, 1, 0; (1433), 11, 1, 0; (2061), 6, 3, 4; (2153), 5, 1, 0; (2300), 4, 1, 0; (2675), 8, 1, 0; (3302), 15, 2, 2; (6070), 11, 2, 6; (6588), 23, 3, 7; (7099), 18, 3, 7; (11903), 5, 1, 0; (13124), 4, 1, 0; (13553), 10, 3, 4; (16467), 4, 1, 0; (17579), 2, 1, 0; (19153), 2, 1, 0; (23579), 4, 1, 0; (33564), 5, 1, 0; (40064), 3, 1, 0; (42127), 2, 1, 0; (43019), 3, 1, 0; (44066), 3, 1, 0; (46948), 2, 1, 0; (85834), 8, 1, 0; (86878), 6, 3, 4; (104753), 3, 1, 0; (151682), 2, 1, 0; (154405), 3, 1, 0; (162168), 6, 2, 2; (166554), 3, 1, 0; (175788), 3, 1, 0; (225763), 2, 1, 0; (343564), 4, 1, 0; (438429), 6, 2, 2; *[231, 39, 0*, 2018/02/08–2018/08/19]*

181 Observatoire des Makes, Saint-Louis
J.-P. Teng, Observatoire des Makes, 18 Rue Georges Bizet, F-97421 La Rivière, France [obs.astronomique@wanadoo.fr]
Observers F. Vachier, A. Klotz, A. Peyrot, P. Thierry, J. Berthier, J.-P. Teng
Measurers F. Vachier, A. Sauvestre
0.6-m $f/8$ reflector + CCD
UCAC-4

2018 NN_{12} *, 85, 3, 2; 2018 OC_2 *, 44, 5, 12; 2018 OE_2 *, 18, 2, 5; 2018 PB_{25} *, 29, 4, 8; *[176, 4, 4*, 2018/07/10–2018/08/12]*

188 Majdanak
Y. N. Krugly, Astronomical Observatory, Kharkiv State University, Sumska Street 35, UA-310022 Kharkiv, Ukraine [krugly@astron.kharkov.ua]
Observers A. M. Shaymanov, O. N. Abdullaev, T. I. Boyqobilov
Measurers O. A. Burkhonov, S. A. Ehgamberdiyev
1.5-m $f/8$ Ritchey-Chrétien + CCD
USNO

2012 BT_{134}, 22, 5, 4; 2014 OH_7, 28, 1, 0; 2015 XX_{417}, 4, 1, 0; (46850), 21, 4, 4; (117547), 4, 1, 0; (163306), 5, 1, 0; (167677), 10, 2, 1; (217391), 5, 1, 0; (266979), 10, 2, 1; (322138), 5, 1, 0; *[114, 10, 0*, 2014/08/20–2018/08/15]*

193 Sanglok
A. M. Buriev, Sanglok Observatory of the Institute of Astrophysics, Tajik Academy of Sciences, Bukhoro Str. 22, Dushanbe 734042, Tajikistan [anvar10@mail.ru]
Observers A. M. Buriev, D. K. Ayubov, H. G. Asoev, S. K. Abdulloev, U. K. Khamroev, A. G. Safarov
0.60-m $f/4$ reflector + CCD
UCAC-3, UCAC-5

(3552), 32, 2, 1; *[32, 1, 0*, 2018/07/23–2018/07/24]*

196 Homburg-Erbach
W. Wiedemann, Hasenaeckerstr. 29, D-66424 Homburg, Germany [Wolfgang.Wiedemann@t-online.de]
0.28-m $f/5$ Schmidt-Cassegrain + CCD
UCAC-4
2011 GA_{62}, 6, 2, 1; 2018 GA_5, 3, 1, 0; (3225), 5, 2, 1; (68950), 6, 2, 1; (162483), 4, 1, 0; (398188), 8, 2, 5; *[32, 6, 0*, 2018/07/18–2018/07/25]*

198 Wildberg
R. Apitzsch, Schwarzwaldstrasse 17-2, D-72218 Wildberg, Germany [astrowild@astro-wildberg.de]
0.35-m $f/3.1$ reflector + CCD
PPMXL
2008 YL_{122}, 5, 1, 0; 2010 UR_{14}, 5, 1, 0; 2012 PL_{15}, 3, 1, 0; 2014 PP_{78}, 7, 1, 0; 2014 QJ_{476}, 7, 1, 0; 2016 EH_{218}, 7, 2, 3; 2017 HF_{50}, 5, 2, 3; 2018 LJ, 3, 1, 0; 2018 NG_6 *, 12, 2, 2; 2018 NH_6 *, 15, 3, 35; 2018 QX_1 *, 23, 3, 4; (19692), 3, 1, 0; (31543), 3, 1, 0; (46584), 3, 1, 0; (59512), 3, 1, 0; (64275), 3, 1, 0; (69400), 3, 1, 0; (79555), 10, 2, 3; (83146), 2, 1, 0; (88826), 3, 1, 0; (105683), 2, 1, 0; (109448), 3, 1, 0; (109552), 3, 1, 0; (112623), 6, 1, 0; (121913), 3, 1, 0; (124652), 6, 1, 0; (132888), 3, 1, 0; (135469), 3, 1, 0; (137144), 4, 2, 3; (138322), 3, 1, 0; (139748), 6, 1, 0; (154502), 3, 1, 0; (159531), 6, 1, 0; (162367), 9, 2, 3; (162976), 3, 1, 0; (169306), 3, 1, 0; (182578), 3, 1, 0; (185385), 4, 1, 0; (196740), 3, 1, 0; (196990), 3, 1, 0; (197533), 3, 1, 0; (219294), 6, 1, 0; (219677), 7, 2, 3; (227037), 6, 1, 0; (236810), 3, 1, 0; (239645), 3, 1, 0; (244626), 3, 1, 0; (273998), 3, 1, 0; (281569), 8, 2, 3; (287498), 3, 1, 0; (303112), 3, 1, 0; (311694), 5, 1, 0; (312594), 4, 1, 0; (313695), 4, 1, 0; (316569), 3, 1, 0; (320043), 6, 1, 0; (321744), 3, 1, 0; (323882), 3, 1, 0; (335231), 3, 1, 0; (345104), 5, 1, 0; (351286), 6, 1, 0; (375622), 8, 2, 3; (401493), 3, 1, 0; (408893), 6, 1, 0; (431505), 3, 1, 0; (456623), 6, 1, 0; (495700), 3, 1, 0; *[323, 67, 3*, 2014/08/22–2018/09/16]*

204 Schiaparelli Observatory
F. Bellini, via A. del Sarto 3, I-21100 Varese, Italy [lucabuzzi.204@gmail.com]
Observer L. Buzzi
0.84-m $f/3.5$ reflector + CCD, 0.60-m $f/4.64$ reflector + CCD
Gaia-DR2, UCAC-4
1998 SD_9, 5, 1, 0; 1999 LK_1, 3, 1, 0; 2001 SC_{170}, 3, 1, 0; 2002 OS_4, 3, 1, 0; 2004 LH, 3, 1, 0; 2004 RX_{10}, 2, 1, 0; 2005 QE_7, 2, 1, 0; 2005 QJ_{15}, 4, 1, 0; 2005 QQ_{87}, 3, 1, 0; 2005 RB, 3, 1, 0; 2006 QM_{33}, 3, 1, 0; 2006 YZ_1, 2, 1, 0; 2007 NL_1, 2, 1, 0; 2007 RZ_8, 3, 1, 0; 2007 RE_{210}, 2, 1, 0; 2007 RJ_{313}, 4, 1, 0; 2008 RT_{26}, 3, 1, 0; 2008 UE_{162}, 4, 1, 0; 2009 OG, 5, 1, 0; 2009 QJ_9, 2, 1, 0; 2009 XR_2, 2, 1, 0; 2011 CX_{46}, 3, 1, 0; 2011 GA_{62}, 3, 1, 0; 2011 HM_{104}, 3, 1, 0; 2012 FN_{62}, 2, 1, 0; 2012 OD_1, 5, 1, 0; 2013 EP_{41}, 3, 1, 0; 2013 PA_{74}, 3, 1, 0; 2013 TB_{75}, 4, 1, 0; 2014 CR_{27}, 2, 1, 0; 2014 NE_3, 2, 1, 0; 2014 SB_{155}, 4, 1, 0; 2014 UP_{43}, 4, 1, 0; 2014 US_{192}, 5, 2, 27; 2015 DP, 2, 1, 0; 2015 FP_{118}, 3, 1, 0; 2015 MQ_{101}, 3, 1, 0; 2015 OH, 3, 1, 0; 2015 RB_{82}, 2, 1, 0; 2015 RJ_{83}, 3, 1, 0; 2015 VQ_{38}, 2, 1, 0; 2015 VN_{129}, 3, 1, 0; 2016 AS_{149}, 2, 1, 0; 2016 CQ_{283}, 4, 1, 0; 2016 CW_{288}, 4, 1, 0; 2016 HP_6, 5, 1, 0; 2017 DZ_8, 2, 1, 0; 2017 SN_{14}, 6, 2, 1; 2017 YE_5, 5, 1, 0; 2017 YC_8, 3, 1, 0; 2018 FO_5, 5, 2, 14; 2018 GA_5, 4, 1, 0; 2018 JC, 3, 1, 0; 2018 JL, 3, 1, 0; 2018 JE_1, 3, 1, 0; 2018 JM_1, 2, 1, 0; 2018 JQ_1, 3, 1, 0; 2018 JY_1, 2, 1, 0; 2018 JV_2, 2, 1, 0; 2018 JC_3, 3, 1, 0; 2018 JK_3, 5, 1, 0; 2018 KT, 3, 1, 0; 2018 KV, 3, 1, 0; 2018 KM_1, 3, 1, 0; 2018 KL_2, 3, 1, 0; 2018 KN_2, 3, 1, 0; 2018 KP_2, 5, 1, 0; 2018 KC_3, 3, 1, 0; 2018 KE_3, 5, 1, 0; 2018 LC, 2, 1, 0; 2018 LG, 2, 1, 0; 2018 LK, 5, 1, 0; 2018 LN, 2, 1, 0; 2018 LF_1, 2, 1, 0; 2018 LN_2, 3, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LD_3, 2, 1, 0; 2018 LE_3, 4, 1, 0; 2018 LQ_3, 3, 1, 0; 2018 LU_3, 2, 1, 0; 2018 LD_4, 2, 1, 0; 2018 LN_4, 3, 1, 0; 2018 LF_5, 6, 2, 16; 2018 LG_5, 2, 1, 0; 2018 LH_5, 2, 1, 0; 2018 LO_5, 3, 1, 0; 2018 LP_5, 2, 1, 0; 2018 LZ_5, 3, 1, 0; 2018 LT_6, 3, 1, 0; 2018 MH, 3, 1, 0; 2018 MJ, 2, 1, 0; 2018 MK, 3, 1, 0; 2018 MY_4, 2, 1, 0; 2018 MZ_4, 3, 1, 0; 2018 ME_5, 2, 1, 0; 2018 MG_5, 2, 1, 0; 2018 MS_6, 3, 1, 0; 2018 MW_6, 3, 1, 0; 2018 MY_6, 3, 1, 0; 2018 MB_7, 5, 1, 0; 2018 MG_7, 5, 1, 0; 2018 MH_7, 2, 1, 0; 2018 MJ_7, 3, 1, 0; 2018 MK_8, 2, 1, 0; 2018 MM_8, 3, 1, 0; 2018 MN_8, 2, 1, 0; 2018 MO_8, 2, 1, 0; 2018 MR_8, 8, 2, 10; 2018 NA, 3, 1, 0; 2018 NB, 5, 1, 0; 2018 NH, 3, 1, 0; 2018 NJ, 3, 1, 0; 2018 NN, 3, 1, 0; 2018 NQ, 5, 1, 0; 2018 NR, 3, 1, 0; 2018 NS, 2, 1, 0; 2018 NU, 3, 1, 0; 2018 NV, 7, 2, 15; 2018 ND_1, 3, 1, 0; 2018 NE_1, 8, 2, 5; 2018 NF_2, 2, 1, 0; 2018 NH_2, 3, 1, 0; 2018 NV_2, 3, 1, 0; 2018 NU_3, 3, 1, 0; 2018 NV_3, 2, 1, 0; 2018 NF_4, 5, 1, 0; 2018 NG_4, 3, 1, 0; 2018 NJ_4, 3, 1, 0; 2018 NN_4, 3, 1, 0; 2018 NO_4, 3, 1, 0; 2018 OB, 3, 1, 0; 2018 OD, 3, 1, 0; 2018 OF, 3, 1, 0; 2018 OG, 2, 1, 0; 2018 OK, 2, 1, 0; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 OQ, 2, 1, 0; 2018 OA_1, 2, 1, 0; 2018 PC, 3, 1, 0; 2018 PS_7, 3, 1, 0; 2018 PW_7, 5, 1, 0; 2018 PX_7, 4, 1, 0; 2018 PL_8, 3, 1, 0; 2018 PH_9, 2, 1, 0; 2018 PJ_9, 3, 1, 0; 2018 PL_9, 2, 1, 0; 2018 PJ_{10}, 5, 1, 0; 2018 PL_{10}, 5, 1, 0; 2018 PM_{10}, 3, 1, 0; 2018 PR_{10}, 2, 1, 0; 2018 PD_{20}, 4, 1, 0; 2018 PB_{22}, 3, 1, 0; 2018 PF_{22}, 3, 1, 0; 2018 PG_{22}, 2, 1, 0; 2018 PH_{22}, 3, 1, 0; 2018 PJ_{22}, 3, 1, 0; 2018 PK_{22}, 3, 1, 0; 2018 PO_{22}, 8, 2, 1; 2018 PO_{23}, 2, 1, 0; 2018 PT_{23}, 3, 1, 0; 2018 QE, 3, 1, 0; 2018 QP, 4, 1, 0; 2018 QS, 3, 1, 0; 2018 QT, 3, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QT_1, 3, 1, 0; 2018 QU_1, 5, 1, 0; 2018 QV_1, 3, 1, 0; 2018 QW_1, 5, 1, 0; 2018 RA, 4, 1, 0; 2018 RB, 3, 1, 0; 2018 RC, 5, 1, 0; 2018 RE, 2, 1, 0; 2018 RF, 3, 1, 0; 2018 RL, 3, 1, 0; 2018 RM, 3, 1, 0; 2018 RN, 2, 1, 0; 2018 RX, 3, 1, 0; 2018 RB_1, 3, 1, 0; 2018 RY_1, 2, 1, 0; 2018 RZ_1, 2, 1, 0; 2018 RE_2, 2, 1, 0; 2018 RN_2, 2, 1, 0; 2018 RQ_2, 4, 1, 0; 2018 RA_3, 2, 1, 0; 2018 RS_3, 2, 1, 0; 2018 RU_3, 3, 1, 0; 2018 RX_3, 3, 1, 0; 2018 RY_3, 2, 1, 0; 2018 RZ_3, 2, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RC_4, 3, 1, 0; 2018 RD_4, 2, 1, 0; 2018 RX_5, 2, 1, 0; 2018 RB_6, 5, 1, 0; 2018 RF_6, 3, 1, 0; 2018 RR_{14}, 4, 1, 0; 2018 SD_1, 3, 1, 0; (1155), 3, 1, 0; (1234), 3, 1, 0; (1436), 3, 1, 0; (2180), 5, 1, 0; (8239), 2, 1, 0; (8700), 2, 1, 0; (13202), 2, 1, 0; (13529), 4, 1, 0; (13893), 3, 1, 0; (14155), 2, 1, 0; (14577), 2, 1, 0; (14831), 2, 1, 0; (16410), 2, 1, 0; (18283), 2, 1, 0; (22011), 3, 1, 0; (23015), 2, 1, 0; (23173), 2, 1, 0; (25504), 2, 1, 0; (27341), 4, 1, 0; (29123), 2, 1, 0; (29158), 2, 1, 0; (29524), 2, 1, 0; (29909), 2, 1, 0; (29988), 4, 1, 0; (30834), 2, 1, 0; (31979), 2, 1, 0; (35593), 2, 1, 0; (36637), 4, 1, 0; (37431), 2, 1, 0; (43576), 2, 1, 0; (46096), 4, 1, 0; (46734), 4, 1, 0; (46957), 3, 1, 0; (47189), 3, 1, 0; (47489), 2, 1, 0; (47812), 2, 1, 0; (48003), 2, 1, 0; (49316), 2, 1, 0; (55262), 2, 1, 0; (55287), 2, 1, 0; (55949), 2, 1, 0; (58576), 2, 1, 0; (62707), 2, 1, 0; (66133), 3, 1, 0; (67929), 2, 1, 0; (68599), 2, 1, 0; (73634), 2, 1, 0; (76381), 2, 1, 0; (80174), 4, 1, 0; (88942), 3, 1, 0; (90962), 2, 1, 0; (91233), 2, 1, 0; (93700), 4, 1, 0; (94969), 2, 1, 0; (96422), 2, 1, 0; (97272), 2, 1, 0; (103094), 2, 1, 0; (105204), 2, 1, 0; (108204), 3, 1, 0; (108876), 4, 1, 0; (109361), 2, 1, 0; (110972), 2, 1, 0; (119749), 2, 1, 0; (119903), 2, 1, 0; (119988), 2, 1, 0; (123045), 2, 1, 0; (125360), 2, 1, 0; (133800), 3, 1, 0; (138032), 2, 1, 0; (138433), 2, 1, 0; (141850), 3, 1, 0; (142327), 2, 1, 0; (142955), 2, 1, 0; (151781), 2, 1, 0; (152710), 2, 1, 0; (159124), 3, 1, 0; (160484), 2, 1, 0; (162453), 2, 1, 0; (164798), 2, 1, 0; (165641), 2, 1, 0; (182409), 2, 1, 0; (183445), 4, 1, 0; (190729), 2, 1, 0; (193066), 2, 1, 0; (201000), 2, 1, 0; (201535), 2, 1, 0; (201981), 2, 1, 0; (204896), 4, 1, 0; (210395), 2, 1, 0; (218955), 2, 1, 0; (219596), 2, 1, 0; (223747), 4, 1, 0; (226493), 2, 1, 0; (227593), 2, 1, 0; (228739), 2, 1, 0; (232695), 2, 1, 0; (239194), 2, 1, 0; (240092), 2, 1, 0; (241165), 2, 1, 0; (247632), 2, 1, 0; (250157), 4, 1, 0; (251589), 2, 1, 0; (252332), 2, 1, 0; (253172), 2, 1, 0; (256040), 3, 1, 0; (256184), 2, 1, 0; (264059), 2, 1, 0; (264486), 4, 1, 0; (268057), 4, 1, 0; (287182), 4, 1, 0; (288346), 3, 1, 0; (290214), 3, 1, 0; (294078), 2, 1, 0; (306166), 2, 1, 0; (314559), 3, 1, 0; (321138), 4, 1, 0; (322746), 2, 1, 0; (323104), 2, 1, 0; (323462), 2, 1, 0; (323562), 4, 1, 0; (328546), 4, 1, 0; (329004), 2, 1, 0; (329673), 2, 1, 0; (330480), 2, 1, 0; (346038), 3, 1, 0; (354229), 2, 1, 0; (355932), 4, 1, 0; (358520), 2, 1, 0; (363743), 2, 1, 0; (364093), 2, 1, 0; (364379), 2, 1, 0; (367168), 2, 1, 0; (367826), 2, 1, 0; (371356), 2, 1, 0; (371784), 2, 1, 0; (377016), 4, 1, 0; (378930), 2, 1, 0; (393800), 2, 1, 0; (397255), 2, 1, 0; (408610), 2, 1, 0; (409488), 3, 1, 0; (419082), 2, 1, 0; (421324), 4, 1, 0; (449100), 2, 1, 0; (452112), 2, 1, 0; (462023), 3, 1, 0; (473869), 2, 1, 0; (494031), 2, 1, 0; (495969), 4, 1, 0; (503960), 2, 1, 0; (518635), 3, 1, 0; *[996, 350, 0*, 2017/12/24–2018/09/19]*

209 Asiago Observatory, Cima Ekar-ADAS
C. Barbieri, Astronomical Observatory and Dept. of Astronomy of the University of Padova, Vicolo Osservatorio 5, I-35122 Padova, Italy [barbieri@pd.astro.it]
Observers C. Barbieri, G. Pignata, S. Magrin, I. Bertini
Measurers G. Pignata, S. Magrin, G. Hahn, M. Hoffmann, S. Mottola
0.67-m $f/1.4$ Schmidt + CCD
GSC-1.1, USNO-SA2.0
2013 AT_{188}, 3, 1, 0; 2017 ON_{65}, 3, 1, 0; *[6, 2, 0*, 2001/02/16–2002/01/09]*

212 Observatorio La Dehesilla
I. Almendros L., Via del Mar 10, E-29004 Málaga, Spain [ialmend@ono.com]
0.30-m $f/10$ Schmidt-Cassegrain + CCD
USNO-A2.0, CMC, CMC-15
(4539), 3, 1, 0; (24974), 3, 1, 0; (27133), 3, 1, 0; (54298), 3, 1, 0; (59873), 3, 1, 0; (68363), 3, 1, 0; (184259), 3, 1, 0; *[21, 7, 0*, 2018/07/14–2018/07/22]*

215 Buchloe
W. Hasubick, Fischerweg 24, D-86807 Buchloe, Germany [werner.hasubick@t-online.de]
0.44-m $f/4.6$ reflector + CCD
UCAC-4
(2060), 3, 1, 0; (60558), 3, 1, 0; *[6, 2, 0*, 2018/08/12–2018/09/09]*

238 Grorudalen Optical Observatory
O. Trondal, Hogtunv. 2B, Oslo, Norway [otrondal@online.no]

0.61-m Cassegrain + CCD
UCAC-2
2015 FP_{118}, 10, 4, 7; (945), 3, 1, 0; (1627), 3, 1, 0; (66391), 15, 5, 6; *[31, 4, 0*, 2018/05/29–2018/09/15]*

244 Geocentric Occultation Observation
D. Herald, 3 Lupin Pl., Murrumbateman, NSW 2582, Australia [DRHerald@bigpond.net.au]
Observers R. Aikawa, C. Anderson, E. Arbouch, Y. Asada, A. Asai, J. Bardecker, T. Barry, J. Barton, P. Baruffetti, J. Bean, W. Beisker, T. Blank, R. Boninsegna, E. Bredner, J. Broughton, O. Canales, A. Chapman, M. Collins, S. Conard, M. Conjat, L. Davis, P. Denyer, S. Donnell, B. Dunford, J. Dunha, D. Dunham, J. Dunham, E. Edens, D. Eisfeldt, C. Ellington, F. Emering, B. Enke, M. Fiedler, A. Figer, E. Frappa, J. Garlitz, L. Garrett, D. Gault, T. George, B. Gimple, W. Gimple, B. Goffin, J. Gout, H. De Groot, K. Halir, A. Hashimoto, T. Haymes, D. Herald, I. High, P. Hinton, G. Holtkamp, D. Hooper, T. Horaguchi, R. Horvat, K. Hosoi, M. Ida, Y. Ikari, M. Ishida, T. Ito, T. Janik, M. Jennings, R. Jones, B. Kattentidt, S. Kawawaki, S. Kerr, S. Kidd, K. Kitazaki, A. Klotz, G. Krannich, J. Kubanek, F. Lavalade, B. Leonard, B. Loader, G. Lyzenga, P. Maley, A. Manna, F. Manzano, J. Mari, L. Mart, P. Martorell, C. McPartlin, W. Merline, S. Messner, J. Milner, P. Montague, J. Moore, Z. Moravec, L. Morrone, A. Morton, M. Mutti, A. Navarro, J. Newman, R. Nolthenius, A. Noschese, P. Nosworthy, D. Oesper, A. Olsen, K. Ooya, T. Oribe, A. Ossola, M. Owada, W. Owen, C. Perello, R. Pidal, J. Polak, A. Pratt, V. Priban, R. Reaves, M. Rottenborn, J. Rovira, J. Salamero, N. Sasanuma, A. Scheck, C. Schnabel, O. Schreurs, A. Selva, M. Smith, P. Sogorb, S. Sposetti, R. Stanton, M. Steinbeisser, A. Storrs, R. Sumner, H. Suzuki, T. Swift, J. Talbot, D. Tamonis, C. Taylor, T. Terada, W. Thomas, P. Tickner, H. Tomioka, R. Trank, S. Uchiyama, M. Unwin, G. Vaudescal, A. Vecchione, R. Venable, B. Walsh, E. Warner, H. Watanabe, S. Whitehurst, J. Winkel, A. Yaeza, H. Yamamura, H. Yoshihara, J. Zahajsky
Measurers D. Herald, E. Frappa, T. Hayamizu, S. Kerr, B. Timerson
Measurer D. Herald, E. Frappa, T. Hayamizu, J. Talbot, B. Timerson
Gaia-DR2
(8), 2, 2, 38; (31), 1, 1, 0; (32), 2, 2, 51; (50), 1, 1, 0; (51), 2, 2, 18; (57), 1, 1, 0; (59), 2, 2, 70; (73), 2, 2, 64; (77), 1, 1, 0; (79), 1, 1, 0; (88), 2, 2, 33; (110), 1, 1, 0; (114), 1, 1, 0; (117), 1, 1, 0; (154), 1, 1, 0; (165), 1, 1, 0; (175), 2, 2, 13; (185), 1, 1, 0; (189), 1, 1, 0; (191), 1, 1, 0; (192), 1, 1, 0; (199), 1, 1, 0; (235), 1, 1, 0; (236), 1, 1, 0; (246), 1, 1, 0; (247), 1, 1, 0; (259), 1, 1, 0; (270), 1, 1, 0; (275), 2, 2, 6; (283), 1, 1, 0; (295), 1, 1, 0; (303), 1, 1, 0; (326), 1, 1, 0; (369), 1, 1, 0; (372), 2, 2, 48; (388), 1, 1, 0; (420), 1, 1, 0; (423), 1, 1, 0; (424), 1, 1, 0; (426), 1, 1, 0; (444), 1, 1, 0; (446), 1, 1, 0; (466), 1, 1, 0; (468), 1, 1, 0; (505), 1, 1, 0; (521), 1, 1, 0; (613), 1, 1, 0; (626), 1, 1, 0; (693), 1, 1, 0; (696), 1, 1, 0; (697), 1, 1, 0; (705), 1, 1, 0; (751), 1, 1, 0; (779), 1, 1, 0; (784), 1, 1, 0; (790), 2, 2, 2; (796), 1, 1, 0; (814), 1, 1, 0; (891), 1, 1, 0; (904), 3, 3, 81; (914), 2, 2, 38; (924), 1, 1, 0; (1031), 2, 2, 36; (1109), 1, 1, 0; (1113), 1, 1, 0; (1165), 1, 1, 0; (1177), 1, 1, 0; (1328), 1, 1, 0; (1354), 1, 1, 0; (1548), 1, 1, 0; (1558), 1, 1, 0; (1574), 1, 1, 0; (1639), 1, 1, 0; (1655), 1, 1, 0; (1819), 1, 1, 0; (1940), 1, 1, 0; (1984), 1, 1, 0; (2152), 1, 1, 0; (2184), 1, 1, 0; (2207), 1, 1, 0; (2829), 1, 1, 0; (3325), 1, 1, 0; (4000), 1, 1, 0; (6090), 1, 1, 0; (7172), 1, 1, 0; (9080), 1, 1, 0; (14991), 1, 1, 0; (52739), 1, 1, 0; (63224), 1, 1, 0; (84522), 1, 1, 0; *[104, 90, 0*, 2015/06/19–2018/04/10]*

246 Kleť Observatory-KLENOT
J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, South Bohemia, Czech Republic [klet@klet.cz]
Observers M. Tichý, J. Tichá
1.06-m KLENOT Telescope + CCD
UCAC-4, Gaia-DR2
2018 EJ_4, 9, 1, 0; 2018 JE_1, 10, 1, 0; 2018 JC_3, 13, 2, 16; 2018 JE_5, 8, 1, 0; 2018 LD, 4, 1, 0; 2018 LJ, 7, 1, 0; 2018 LK, 11, 1, 0; 2018 LM, 5, 1, 0; 2018 LN, 6, 1, 0; 2018 LD_3, 7, 1, 0; 2018 LX_5, 7, 1, 0; 2018 MT_6, 6, 1, 0; 2018 MW_6, 3, 1, 0; 2018 QW_1, 4, 1, 0; 2018 RD_5, 7, 1, 0; 2018 RG_5, 5, 1, 0; 2018 RL_5, 3, 1, 0; 2018 RO_5, 6, 1, 0; 2018 RB_6, 7, 1, 0; 2018 RF_6, 4, 1, 0; 2018 RU_8, 2, 1, 0; (1399), 10, 1, 0; (2370), 8, 1, 0; (13345), 14, 1, 0; (21223), 10, 1, 0; (21516), 10, 1, 0; (24777), 20, 1, 0; (26433), 22, 1, 0; (27751), 10, 1, 0; (35347), 12, 1, 0; (46322), 2, 1, 0; (46920), 9, 1, 0; (97146), 16, 1, 0; (115795), 4, 1, 0; *[281, 34, 0*, 2018/06/04–2018/09/12]*

247 Roving Observer
G. Wells, Flat 5, 44 Dabbs Hill Lane, Northolt, Middlesex, UB5 4AG, England [northoltbranchobservatory@hotmail.com]
V. Sulym, no details supplied [sulim.vladimir@gmail.com]
M. Adamovský, Bazantnice,Drazen,33101,Czech Republic [pozorovatel.hvr@gmail.com]
K.-F. Osterhage, Fehlingsweg 47, 57250 Netphen, Germany [osterhage@onlinehome.de]
Observers K.-F. Osterhage, V. Sulym, M. Adamovský, G. Wells
0.11-m $f/6.5$ refractor + CCD, 0.15-m $f/5$ reflector + CCD, 0.12-m $f/7.5$ refractor + CCD, 0.6-m reflector + CCD, 0.07-m $f/5.9$ refractor + CCD
UCAC-4, CMC-15
2018 EJ_4, 20, 2, 1; 2018 KE_3, 6, 1, 0; 2018 PU_7, 6, 1, 0; (3403), 12, 2, 7; (3533), 10, 2, 7; (14844), 6, 1, 0; *[60, 6, 0*, 2018/05/15–2018/09/15]*

250 Hubble Space Telescope
M. McMaster, Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218, U.S.A. [mcmaster@stsci.edu]
Measurers G. Bernstein, D. Trilling
2.4-m reflector + $f/28.3$ CCD, 2.4-m reflector + $f/12.9$ CCD
GSC
2014 AD_{61}, 12, 1, 0; *[12, 1, 0*, 2000/06/29]*

260 Siding Spring-DSS
E. Colombini, Via Manfredini 26, I-41043 Formigine (MO) Italy [ermes.colombini@tin.it] (5)
Measurer E. Colombini
1.2-m Schmidt
UCAC-3
(27532), 2, 1, 0; (29600), 2, 1, 0; (76306), 2, 1, 0; (108343), 2, 1, 0; *[8, 4, 0*, 1976/05/30]*

290 Mt. Graham
R. P. Boyle, Vatican Observatory Research Group, Steward Observatory, Tucson, AZ 85721, U.S.A. [rpboyle@mac.com] (5)
2006 TH_{132}, 19, 1, 0; 2006 TS_{132}, 4, 1, 0; 2009 HT_{110}, 11, 1, 0; 2017 PG_{31}, 12, 2, 1; 2017 SP_{131}, 4, 1, 0; *[50, 5, 0*, 2009/05/26–2015/01/23]*

291 LPL/Spacewatch II
R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu]
Observers R. S. McMillan, T. H. Bressi, A. F. Tubbiolo, M. J. Brucker, M. T. Read, R. A. Mastaler, J. V. Scotti
1.8-m $f/2.7$ reflector + CCD
USNO-B1.0
1998 RM_{81}, 3, 1, 0; 1998 SZ_{27}, 3, 1, 0; 1998 UF_{51}, 3, 1, 0; 1999 FP_{19}, 3, 1, 0; 2001 HA_4, 3, 1, 0; 2001 LC_9, 3, 1, 0; 2001 RQ_{17}, 3, 1, 0; 2001 SC_{170}, 3, 1, 0; 2001 SA_{357}, 3, 1, 0; 2001 WQ_{104}, 3, 1, 0; 2002 AT_{210}, 3, 1, 0; 2002 QQ_{40}, 2, 1, 0; 2002 UK_{11}, 3, 1, 0; 2003 AY_2, 2, 1, 0; 2003 RC_2, 3, 1, 0; 2003 SN_{435}, 3, 1, 0; 2003 UG_{419}, 3, 1, 0; 2004 EJ_{116}, 3, 1, 0; 2004 NZ_{33}, 3, 1, 0; 2004 QN_{29}, 3, 1, 0; 2004 RX_{10}, 6, 2, 1; 2004 TG_{10}, 3, 1, 0; 2005 AE_{83} *, 3, 1, 0; 2005 EE_{334}, 3, 1, 0; 2005 EJ_{334}, 3, 1, 0; 2005 EL_{334}, 3, 1, 0; 2005 FV_{16}, 3, 1, 0; 2005 GJ_8, 2, 1, 0; 2005 GA_{196}, 3, 1,

0; 2005 GE_{230}, 3, 1, 0; 2005 GF_{230}, 3, 1, 0; 2005 MG_{55}, 3, 1, 0; 2005 NJ_{63}, 3, 1, 0; 2005 NP_{82}, 3, 1, 0; 2005 NX_{126}, 3, 1, 0; 2005 NZ_{126}, 3, 1, 0; 2005 OE_{32}, 3, 1, 0; 2005 RB, 3, 1, 0; 2005 SK_{294}, 3, 1, 0; 2005 SP_{294}, 3, 1, 0; 2005 SA_{295}, 3, 1, 0; 2005 TF_{137}, 3, 1, 0; 2005 TT_{198}, 3, 1, 0; 2005 TK_{199}, 3, 1, 0; 2005 XY_{119}, 3, 1, 0; 2005 YD_{192}, 3, 1, 0; 2005 YT_{293}, 3, 1, 0; 2005 YV_{293}, 3, 1, 0; 2006 AJ_{108}, 3, 1, 0; 2006 CM_{81}, 3, 1, 0; 2006 EK_{76}, 3, 1, 0; 2006 HJ_{155}, 3, 1, 0; 2006 KZ_{145}, 3, 1, 0; 2006 OS_{32}, 3, 1, 0; 2006 OJ_{38}, 3, 1, 0; 2006 RD_{123}, 3, 1, 0; 2006 SD_{422}, 3, 1, 0; 2006 SZ_{423}, 3, 1, 0; 2006 SA_{424}, 3, 1, 0; 2006 SV_{424}, 3, 1, 0; 2006 TV_{131}, 3, 1, 0; 2006 TO_{132}, 3, 1, 0; 2006 TR_{132}, 3, 1, 0; 2006 TP_{133}, 9, 1, 0; 2006 UK_{364}, 3, 1, 0; 2006 UW_{364}, 3, 1, 0; 2006 UF_{365}, 3, 1, 0; 2006 US_{365}, 3, 1, 0; 2006 WL_{208}, 3, 1, 0; 2006 WG_{209}, 3, 1, 0; 2006 XL_{74}, 3, 1, 0; 2006 XT_{74}, 6, 1, 0; 2007 AA_{32}, 3, 1, 0; 2007 BP_{103}, 3, 1, 0; 2007 CO_{80}, 3, 1, 0; 2007 EP_{226}, 3, 1, 0; 2007 FM_{52}, 3, 1, 0; 2007 FQ_{52}, 3, 1, 0; 2007 GW_{77}, 3, 1, 0; 2007 HL_{100}, 3, 1, 0; 2007 JZ_{46}, 6, 2, 39; 2007 ML_{24}, 5, 2, 38; 2007 QT_{15}, 3, 1, 0; 2007 RH_{330}, 3, 1, 0; 2007 TC_{456}, 3, 1, 0; 2007 TH_{457}, 3, 1, 0; 2007 TC_{458}, 3, 1, 0; 2007 UY_{144}, 3, 1, 0; 2007 UZ_{144}, 3, 1, 0; 2007 UO_{145}, 3, 1, 0; 2007 UR_{145}, 9, 2, 1814; 2007 VD_{12}, 2, 1, 0; 2007 VC_{237}, 3, 1, 0; 2007 VZ_{340}, 6, 2, 482; 2007 VW_{341}, 3, 1, 0; 2007 WV_{64}, 3, 1, 0; 2007 WK_{65}, 3, 1, 0; 2007 XS_{60}, 3, 1, 0; 2007 YK_{76}, 3, 1, 0; 2007 YR_{76}, 3, 1, 0; 2007 YU_{76}, 3, 1, 0; 2007 YU_{77}, 3, 1, 0; 2008 AJ_{139}, 3, 1, 0; 2008 BF_{55}, 3, 1, 0; 2008 CU_{218}, 6, 1, 0; 2008 EM_7, 2, 1, 0; 2008 GP_{149}, 3, 1, 0; 2008 RG_{98}, 3, 1, 0; 2008 RB_{149}, 3, 1, 0; 2008 SO_{313}, 3, 1, 0; 2008 SW_{313}, 3, 1, 0; 2008 UM_{301}, 3, 1, 0; 2008 UQ_{375}, 3, 1, 0; 2008 UT_{375}, 3, 1, 0; 2008 VS_{82}, 3, 1, 0; 2008 VX_{82}, 3, 1, 0; 2009 BV_{192}, 3, 1, 0; 2009 CE_{45}, 3, 1, 0; 2009 DS_{103}, 3, 1, 0; 2009 DK_{146}, 3, 1, 0; 2009 EP_{32}, 3, 1, 0; 2009 ET_{32}, 3, 1, 0; 2009 FR_{81}, 3, 1, 0; 2009 FU_{81}, 3, 1, 0; 2009 LW_2, 3, 1, 0; 2009 OD_{26}, 3, 1, 0; 2009 QG_{34}, 3, 1, 0; 2009 SJ_{372}, 3, 1, 0; 2009 TK, 3, 1, 0; 2009 TA_{50}, 3, 1, 0; 2009 UP_1, 3, 1, 0; 2009 UX_{17}, 2, 1, 0; 2010 AT_{142} *, 3, 1, 0; 2010 AF_{144} *, 3, 1, 0; 2010 CK_{252}, 3, 1, 0; 2010 GJ_{17}, 3, 1, 0; 2010 GO_{91}, 3, 1, 0; 2010 GW_{176}, 3, 1, 0; 2010 GY_{176}, 3, 1, 0; 2010 LT_{108}, 3, 1, 0; 2010 MC_{42}, 3, 1, 0; 2010 ML_{44}, 3, 1, 0; 2010 MG_{50}, 3, 1, 0; 2010 QO_7, 3, 1, 0; 2010 RY_{189}, 3, 1, 0; 2010 SH_{13}, 2, 1, 0; 2010 UA_{110}, 3, 1, 0; 2010 UL_{110}, 3, 1, 0; 2010 XV_{93}, 3, 1, 0; 2010 XC_{94}, 3, 1, 0; 2011 BN_{169}, 6, 2, 1387; 2011 BV_{169}, 3, 1, 0; 2011 BA_{170}, 3, 1, 0; 2011 BL_{170}, 3, 1, 0; 2011 EJ_{47}, 3, 1, 0; 2011 ES_{90}, 3, 1, 0; 2011 FN_{159}, 3, 1, 0; 2011 LB_{25}, 3, 1, 0; 2011 QT_{100}, 3, 1, 0; 2011 SL_{281}, 3, 1, 0; 2011 TC_4, 3, 1, 0; 2011 UK_{126}, 3, 1, 0; 2011 VB_6, 3, 1, 0; 2011 VY_{24}, 3, 1, 0; 2011 YU_{80}, 3, 1, 0; 2011 YV_{80}, 3, 1, 0; 2012 DD_{106}, 3, 1, 0; 2012 DN_{106}, 3, 1, 0; 2012 FW_{86}, 3, 1, 0; 2012 FK_{87} *, 3, 1, 0; 2012 QH_8, 7, 3, 36; 2012 QM_{54}, 3, 1, 0; 2012 SY_{71}, 3, 1, 0; 2012 TX_{330}, 3, 1, 0; 2012 TB_{331}, 3, 1, 0; 2012 UW_{184}, 3, 1, 0; 2012 YE_{12}, 3, 1, 0; 2013 EU_{136}, 3, 1, 0; 2013 EN_{158}, 3, 1, 0; 2013 FG_{30}, 3, 1, 0; 2013 JO_{67}, 3, 1, 0; 2013 LE_7, 3, 1, 0; 2013 LH_{16}, 3, 1, 0; 2013 MZ_{13}, 3, 1, 0; 2013 NC_{33}, 3, 1, 0; 2013 PA_7, 3, 1, 0; 2013 PU_{31}, 2, 1, 0; 2013 PC_{84}, 3, 1, 0; 2013 RC_{21}, 3, 1, 0; 2013 RX_{80}, 3, 1, 0; 2013 RQ_{108}, 3, 1, 0; 2013 TZ_{160}, 3, 1, 0; 2013 TW_{171}, 3, 1, 0; 2013 VZ_{30}, 3, 1, 0; 2013 VX_{31}, 3, 1, 0; 2013 WY_{113}, 3, 1, 0; 2014 AZ_{60}, 3, 1, 0; 2014 BW_{69}, 3, 1, 0; 2014 CS, 3, 1, 0; 2014 DN_{112}, 5, 2, 60; 2014 DR_{155}, 3, 1, 0; 2014 DA_{156}, 3, 1, 0; 2014 DB_{156}, 3, 1, 0; 2014 DC_{156}, 3, 1, 0; 2014 EV_{249}, 3, 1, 0; 2014 GE_{53}, 3, 1, 0; 2014 GC_{65}, 3, 1, 0; 2014 HQ_{124}, 3, 1, 0; 2014 JG_{92}, 3, 1, 0; 2014 OO_{97}, 3, 1, 0; 2014 OU_{291}, 3, 1, 0; 2014 PC_{24}, 3, 1, 0; 2014 PQ_{40}, 3, 1, 0; 2014 PZ_{78}, 3, 1, 0; 2014 PA_{81}, 3, 1, 0; 2014 QW_{402}, 3, 1, 0; 2014 QG_{447}, 3, 1, 0; 2014 QE_{478}, 3, 1, 0; 2014 QV_{480}, 3, 1, 0; 2014 QD_{481}, 3, 1, 0; 2014 QR_{483}, 3, 1, 0; 2014 QW_{483}, 3, 1, 0; 2014 QD_{484}, 3, 1, 0; 2014 QP_{485}, 3, 1, 0; 2014 QO_{491}, 3, 1, 0; 2014 QS_{491}, 6, 1, 0; 2014 QV_{491}, 3, 1, 0; 2014 QD_{493}, 3, 1, 0; 2014 SD_{16}, 3, 1, 0; 2014 SO_{58}, 3, 1, 0; 2014 SM_{143}, 3, 1, 0; 2014 ST_{187}, 3, 1, 0; 2014 US, 3, 1, 0; 2014 UA_{168}, 3, 1, 0; 2014 US_{192}, 6, 2, 11; 2014 WL_{88}, 3, 1, 0; 2014 WP_{535}, 3, 1, 0; 2014 XR_6, 3, 1, 0; 2014 YM_9, 6, 2, 1; 2014 YK_{12}, 3, 1, 0; 2014 YC_{23}, 4, 1, 0; 2014 YB_{35}, 9, 3, 11; 2014 YA_{64}, 3, 1, 0; 2014 YH_{64}, 3, 1, 0; 2015 AM_{45}, 3, 1, 0; 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2018 RX_{24}, 3, 1, 0; (253062), 3, 1, 0; (283503), 3, 1, 0; (363027), 2, 1, 0; (469737), 9, 3, 13; (489486), 3, 1, 0; *[2034, 543, 4*, 2001/09/21–2018/09/18]*

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Observers A. Asami, N. Hashimoto, S. Isobe, K. Nishiyama, S. Okumura, T. Sakamoto, S. Urakawa
0.25-m $f/5.0$ reflector + CCD
GSC-ACT

2009 QN_{66}, 4, 1, 0; 2010 AW_{141}, 4, 1, 0; 2012 DA_{106}, 5, 1, 0; 2016 AV_5, 4, 1, 0; 2018 RT_9, 4, 1, 0; *[21, 5, 0*, 2009/09/18–2012/03/21]*

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Observers S. S. Sheppard, M. Szymanski, E. Unda-Sanzana, O. Vaduvescu
Measurer A. Aznar
6.5-m Magellan-Baade telescope + CCD, 1.3-m $f/2.8$ reflector + CCD
Gaia-DR1, USNO-A2.0, MPOSC3

2006 HZ_{122}, 2, 1, 0; 2015 KF_{172}, 2, 2, 1; 2015 KG_{172}, 2, 2, 1; 2016 FX_{58}, 2, 2, 1; 2017 OF_{69}, 4, 4, 176; (91554), 2, 1, 0; *[14, 6, 0*, 2006/06/21–2018/05/17]*

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M. Mahlke, RWTH Aachen University, III. Physikalisches Institut A, Otto-Blumenthal-Str., 52074 Aachen, Germany [max.mahlke@rwth-aachen.de] (19)
Observers M. Altmann, T. Prusti, O. Hainaut, D. Koschny, M. Micheli
Measurers C. Barache, S. Bouquillon, T. Carlucci, F. Taris, L. Curelaru, O. Vaduvescu, M. Popescu, B. Danila, C. Rodrigo, E. Solano, M. Micheli

2.6-m $f/5.5$ reflector + MegaCam, 4.10-m reflector + CCD, 8.2-m VLT + CCD
Gaia-DR1, Gaia-DR2

{13} (177614), 10, 1, 0; *[10, 1, 0*, 2009/12/02]*

{15} 2017 OM_1, 2, 1, 0; 2018 MC_7, 3, 1, 0; 2018 NJ, 3, 1, 0; *[8, 3, 0*, 2018/07/23–2018/08/10]*

{16} 2003 SL_{435}, 7, 1, 0; 2004 TY_{371}, 10, 1, 0; 2005 SN_{294}, 6, 1, 0; 2005 TK_{25}, 16, 2, 1; 2005 YZ_{157}, 9, 1, 0; 2006 EJ_{76}, 10, 1, 0; 2006 SN_{424}, 10, 1, 0; 2006 TJ_{133}, 10, 1, 0; 2006 VE_{176}, 10, 1, 0; 2007 CP_{80}, 10, 1, 0; 2007 RH_{195}, 10, 1, 0; 2007 RC_{332}, 10, 1, 0; 2007 UT_{145}, 7, 1, 0; 2007 YT_{76}, 8, 1, 0; 2008 CE_{219}, 10, 1, 0; 2008 SY_{280}, 5, 1, 0; 2008 US_{34}, 18, 2, 2; 2008 UN_{167}, 8, 1, 0; 2008 US_{375}, 9, 1, 0; 2009 BM_{55}, 9, 1, 0; 2009 DN_{140}, 6, 1, 0; 2009 DA_{145}, 6, 1, 0; 2009 OB_{26}, 7, 1, 0; 2009 RF_{43}, 10, 1, 0; 2009 SE_{283}, 9, 1, 0; 2009 SB_{295}, 10, 1, 0; 2009 SK_{372}, 5, 1, 0; 2009 VO_{62}, 15, 2, 2; 2010 SB_{45}, 5, 1, 0; 2010 UJ_{110}, 10, 1, 0; 2011 GX_{90}, 5, 1, 0; 2011 US_{255}, 16, 2, 1; 2011 UT_{418}, 10, 1, 0; 2011 WD_{159}, 10, 1, 0; 2012 BN_{159}, 10, 1, 0; 2012 DF_{106}, 10, 1, 0; 2012 MS_{16}, 10, 1, 0; 2012 TM_{331}, 9, 1, 0; 2012 UD_{184}, 5, 1, 0; 2012 UK_{184}, 6, 1, 0; 2012 XC_{32}, 7, 1, 0; 2013 EU_{158}, 9, 1, 0; 2013 LW_{36}, 10, 1, 0; 2013 NW_{29}, 10, 1, 0; 2013 NQ_{33}, 10, 1, 0; 2013 RZ_{49}, 18, 2, 2; 2013 RQ_{108}, 8, 1, 0; 2013 WW_{113}, 8, 1, 0; 2014 DY_{155}, 10, 1, 0; 2014 JN_{91}, 10, 1, 0; 2014 OX_{44}, 14, 2, 1; 2014 OE_{158}, 9, 1, 0; 2014 PT_{81}, 6, 1, 0; 2014 QO_{352}, 10, 1, 0; 2014 QP_{378}, 10, 1, 0; 2014 QX_{479}, 6, 1, 0; 2014 QJ_{494}, 6, 1, 0; 2014 RW_{27}, 10, 1, 0; 2014 SX_{46}, 10, 1, 0; 2014 UG_{126}, 7, 1, 0; 2014 UZ_{157}, 5, 1, 0; 2014 UL_{236}, 17, 2, 1; 2014 WP_{169}, 10, 1, 0; 2014 WW_{190}, 10, 1, 0; 2014 YG_{64}, 10, 1, 0; 2015 BW_9, 17, 2, 1; 2015 BZ_{564}, 8, 1, 0; 2015 RY_{264}, 16, 2, 2; 2015 VL_{162}, 18, 2, 2; 2015 XL_{180}, 6, 1, 0; 2015 XL_{310}, 5, 1, 0; 2015 XX_{320}, 15, 2, 1; 2016 BO_{53}, 6, 1, 0; 2016 CV_6, 5, 1, 0; 2016 CQ_{172}, 6, 1, 0; 2016 CJ_{199}, 5, 1, 0; 2016 CP_{300}, 7, 1, 0; 2016 KN_6, 8, 1, 0; 2017 BH_5, 6, 1, 0; 2017 BE_{126}, 8, 1, 0; 2017 DG_{22}, 19, 2, 1; 2017 DM_{25}, 10, 1, 0; 2017 OF_{66}, 10, 1, 0; 2017 RK_{109}, 9, 1, 0; 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2018 HG_5 *, 16, 2, 2; 2018 JF_5 *, 15, 2, 1; 2018 JG_5 *, 14, 2, 1; 2018 JH_5 *, 18, 2, 1; 2018 JJ_5 *, 18, 2, 1; 2018 JK_5 *, 18, 2, 1; 2018 JL_5 *, 14, 2, 1; 2018 JM_5 *, 25, 2, 1; 2018 JN_5 *, 28, 2, 1; 2018 JO_5 *, 18, 2, 1; 2018 JS_5 *, 18, 2, 2; 2018 JT_5 *, 18, 2, 2; 2018 JU_5 *, 16, 2, 2; 2018 JV_5 *, 18, 2, 2; 2018 JW_5 *, 16, 2, 2; 2018 JX_5 *, 17, 2, 2; 2018 JY_5 *, 17, 2, 2; 2018 JZ_5 *, 13, 2, 2; 2018 JA_6 *, 18, 2, 2; 2018 JB_6 *, 14, 2, 2; 2018 JC_6 *, 16, 2, 2; 2018 JD_6 *, 18, 2, 2; 2018 JE_6 *, 18, 2, 2; 2018 JF_6 *, 18, 2, 2; 2018 JG_6 *, 18, 2, 2; 2018 JH_6 *, 18, 2, 2; 2018 JJ_6 *, 18, 2, 2; 2018 JK_6 *, 17, 2, 2; 2018 JL_6 *, 18, 2, 2; 2018 JM_6 *, 18, 2, 2; 2018 JN_6 *, 18, 2, 2; 2018 JO_6 *, 17, 2, 2; 2018 JP_6 *, 15, 2, 1; 2018 JQ_6 *, 17, 2, 1; 2018 JR_6 *, 17, 2, 1; 2018 JS_6 *, 15, 2, 1; 2018 PF *, 16, 2, 1; 2018 PG *, 16, 2, 1; 2018 PH *, 18, 2, 1; 2018 PJ *, 17, 2, 1; 2018 PK *, 12, 2, 1; 2018 PL *, 18, 2, 1; 2018 PM *, 17, 2, 1; 2018 PN *, 17, 2, 1; 2018 PO *, 17, 2, 1; 2018 PP *, 18, 2, 1; 2018 PQ *, 18, 2, 1; 2018 PR *, 17, 2, 1; 2018 PS *, 13, 2, 1; 2018 PT_6, 15, 2, 1; 2018 PW_8, 8, 1, 0; 2018 PX_{10} *, 18, 2, 1; 2018 PR_{16}, 18, 2, 1; 2018 PL_{18} *, 18, 2, 1; 2018 PM_{18} *, 14, 2, 1; 2018 PN_{18} *, 13, 2, 1; 2018 PO_{18} *, 18, 2, 1; 2018 PP_{18} *, 16, 2, 1; 2018 PQ_{18} *, 14, 2, 1; 2018 PR_{18} *, 18, 2, 1; 2018 PS_{18} *, 16, 2, 1; 2018 PT_{18} *, 18, 2, 1; 2018 PU_{18} *, 18, 2, 1; 2018 PV_{18} *, 16, 2, 1; 2018 PW_{18} *, 16, 2, 1; 2018 PX_{18} *, 18, 2, 1; 2018 PY_{18} *, 16, 2, 1; 2018 PZ_{18} *, 18, 2, 1; 2018 PA_{19} *, 16, 2, 1; 2018 PB_{19} *, 18, 2, 1; 2018 PU_{27} *, 11, 2, 2; 2018 PV_{27} *, 18, 2, 2; 2018 PW_{27} *, 18, 2, 2; 2018 PX_{27} *, 18, 2, 2; 2018 PY_{27} *, 18, 2, 2; 2018 PZ_{27} *, 17, 2, 2; 2018 PA_{28} *, 18, 2, 2; 2018 PB_{28} *, 18, 2, 2; 2018 PC_{28} *, 18, 2, 2; 2018 PD_{28} *, 15, 2, 2; 2018 PE_{28} *, 18, 2, 2; 2018 PF_{28} *, 18, 2, 2; 2018 PG_{28} *, 18, 2, 2; 2018 PH_{28} *, 17, 2, 2; 2018 QY_1 *, 18, 2, 2; 2018 QZ_1 *, 14, 2, 2; 2018 QA_2 *, 18, 2, 2; 2018 QB_2 *, 18, 2, 2; 2018 QC_2 *, 18, 2, 2; 2018 QD_2 *, 18, 2, 2; 2018 QE_2 *, 16, 2, 2; 2018 QF_2 *, 18, 2, 2; 2018 QG_2 *, 16, 2, 2; 2018 QH_2 *, 11, 2, 2; 2018 QJ_2 *, 12, 2, 2; 2018 QK_2 *, 18, 2, 2; 2018 QL_2 *, 18, 2, 2; 2018 QM_2 *, 11, 2, 2; 2018 QU_3 *, 18, 2, 1; 2018 QV_3 *, 18, 2, 1; 2018 QW_3 *, 18, 2, 1; 2018 QX_3 *, 18, 2, 1; 2018 QY_3 *, 16, 2, 1; 2018 QZ_3 *, 16, 2, 1; 2018 QA_4 *, 15, 2, 1; 2018 QB_4 *, 18, 2, 1; 2018 QC_4 *, 18, 2, 1; 2018 QO_4 *, 16, 2, 1; 2018 QP_4 *, 16, 2, 1; 2018 QQ_4 *, 18, 2, 1; 2018 QR_4 *, 17, 2, 1; 2018 QS_4 *, 18, 2, 1; 2018 QT_4 *, 18, 2, 1; 2018 QU_4 *, 10, 2, 1; 2018 QL_5 *, 17, 2, 2; 2018 QM_5 *, 15, 2, 2; 2018 QN_5 *, 18, 2, 2; 2018 QO_5 *, 16, 2, 2; 2018 QP_5 *, 18, 2, 2; 2018 QQ_5 *, 15, 2, 2; 2018 QR_5 *, 16, 2, 2; 2018 QL_6 *, 15, 2, 1; 2018 QM_6 *, 14, 2, 1; 2018 QN_6 *, 12, 2, 1; 2018 QO_6 *, 13, 2, 1; 2018 QB_7 *, 16, 2, 1; 2018 QC_7 *, 16, 2, 1; 2018 QD_7 *, 18, 2, 1; 2018 QE_7 *, 16, 2, 1; 2018 RM_1 *, 9, 1, 0; 2018 RS_7 *, 8, 1, 0; 2018 RR_{14}, 10, 1, 0; 2018 RW_{15} *, 18, 2, 1; 2018 RX_{15} *, 16, 2, 1; 2018 RY_{15} *, 18, 2, 1; 2018 RZ_{15} *, 15, 2, 1; 2018 RA_{16} *, 18, 2, 1; 2018 RB_{16} *, 17, 2, 1; 2018 RC_{16} *, 15, 2, 1; 2018 RD_{16} *, 14, 2, 1; 2018 RE_{16} *, 15, 2, 1; 2018 RU_{20}, 17, 2, 2; 2018 RH_{23}, 10, 1, 0; 2018 RQ_{26} *, 18, 2, 1; 2018 RR_{26} *, 16, 2, 1; 2018 RS_{26} *, 18, 2, 1; 2018 RT_{26} *, 16, 2, 1; 2018 RU_{26} *, 18, 2, 1; 2018 RV_{26} *, 18, 2, 1; 2018 RW_{26} *, 10, 2, 1; 2018 RX_{26} *, 18, 2, 1; 2018 RY_{26} *, 18, 2, 1; 2018 RZ_{26} *, 18, 2, 1; (33852), 10, 1, 0; (73948), 6, 1, 0; (132133), 6, 1, 0; (312909), 8, 1, 0; (323954), 8, 1, 0; (397894), 10, 1, 0; (407367), 8, 1, 0; (408890), 8, 1, 0; (452439), 10, 1, 0; (453380), 8, 1, 0; (456921), 10, 1, 0; (520933), 5, 1, 0; (521743), 8, 1, 0; *[4122, 293, 189*, 2015/01/21–2018/09/19]*

{19} 2014 SZ_{140}, 4, 1, 0; *[4, 1, 0*, 2012/04/18]*

{20} 2014 UX_{34}, 4, 1, 0; *[4, 1, 0*, 2014/11/11]*

323 Perth Observatory, Bickley

J. Biggs, Perth Observatory, Bickley, WA 6076, Australia [jamieb@calm.wa.gov.au]
Observer P. Camilleri

0.34-m $f/5$ reflector + CCD, 0.40-m $f/5$ reflector + CCD
UCAC-4

2018 PK_{22}, 2, 1, 0; (258095), 2, 1, 0; *[4, 2, 0*, 2018/08/16–2018/09/06]*

327 Peking Observatory, Xinglong Station

J. Zhu, National Astronomical Observatories, Chinese Academy of Sciences, 20A Datun Road, Chaoyang District, Beijing 100012, Peoples Republic of China [zj@bac.pku.edu.cn]
Observers J. Zhu, X. Zhou, S. J. Xue, J. Ma, H. Wu, X. M. Teng, C. H. Liu, S. L. Kong
Measurers X. M. Teng, S. L. Kong, C. H. Liu, J. Zhu

0.60-m Schmidt + CCD

2007 TO_{458}, 6, 1, 0; 2014 PP_{80}, 4, 1, 0; 2014 QN_{475}, 3, 1, 0; 2017 SK_{132}, 4, 1, 0; *[17, 4, 0*, 1996/10/14–2011/10/02]*

333 Desert Eagle Observatory

W. K. Y. Yeung, 139 Sandringham Place NW, Calgary, AB T3K 3V8, Canada [microplanet333@yahoo.com]

0.45-m $f/3$ Schmidt-Cassegrain + CCD
USNO-A2.0, GSC-ACT

2010 QO_7, 4, 1, 0; 2017 FN_{133}, 3, 1, 0; *[7, 2, 0*, 2003/02/07–2014/09/24]*

381 Tokyo-Kiso

Y. Ohba, Graduate School of Science, University of Tokyo, Araku 866-152, Iruma, Saitama-ken 358-0031, Japan [ohba@planeta.sci.isas.ac.jp]
Observer R. Ohsawa

1.05-m $f/3.1$ Schmidt
GSC

2018 LV_3, 9, 1, 0; *[9, 1, 0*, 2018/06/13]*

461 University of Szeged, Piszkéstető Stn. (Konkoly)
K. Sárneczky, P.O. Box 406, H-6701 Szeged, Hungary [sky@titan.physx.u-szeged.hu]
Observers K. Sárneczky, A. Pál, A. Bódi, A. Ordasi, O. Hanyecz, B. Ignácz, R. Szakáts
0.60-m Schmidt + CCD, 1.02-m Ritchey-Chrétien + CCD
USNO-B1.0

2005 OF_{32}, 3, 1, 0; 2006 FG_{56}, 3, 1, 0; 2006 TU_{131}, 3, 1, 0; 2006 VD_{176}, 6, 2, 1; 2007 TE_{458}, 3, 1, 0; 2007 UX_{143}, 3, 1, 0; 2007 VS_{340}, 3, 1, 0; 2007 VE_{342}, 9, 2, 3; 2007 WY_{64}, 5, 2, 1; 2007 YS_{77}, 3, 1, 0; 2009 SK_{372}, 9, 3, 2; 2010 SY_{44}, 3, 1, 0; 2011 BQ_{169}, 3, 1, 0; 2011 FP_{159}, 6, 1, 0; 2011 PK_{16} *, 2, 1, 0; 2011 SV_{280}, 3, 1, 0; 2011 SC_{281}, 3, 1, 0; 2011 UJ_{418}, 8, 2, 1; 2011 YV_{80} *, 3, 1, 0; 2012 BS_{159}, 3, 1, 0; 2012 FF_{87} *, 3, 1, 0; 2012 XP_{159}, 3, 1, 0; 2012 YE_{12}, 3, 1, 0; 2013 PM_{83} *, 3, 1, 0; 2013 SC_{102} *, 3, 1, 0; 2013 VM_{31}, 7, 1, 0; 2013 XB_{28}, 3, 1, 0; 2013 YH_{155} *, 3, 1, 0; 2014 KC_{51}, 3, 1, 0; 2014 QB_{475}, 3, 1, 0; 2014 RD_{70}, 6, 2, 1; 2014 SM_{255}, 2, 1, 0; 2015 MB_6, 3, 1, 0; 2016 BL_{36}, 3, 1, 0; 2016 QA_{95} *, 3, 1, 0; 2017 FN_{133}, 3, 1, 0; 2017 MZ_4, 7, 3, 2; 2017 OX_{39}, 2, 1, 0; 2017 RN_{104}, 3, 1, 0; 2017 SW_{11}, 6, 2, 1; 2018 NO_{13}, 2, 1, 0; *[158, 41, 7*, 2010/10/03–2018/08/18]*

463 Sommers-Bausch Observatory, Boulder
K. Gleason, 408 UCB, Boulder, CO 80309, U.S.A. [keithg@lyra.colorado.edu]
Observers S. Ashfaq, S. Balasubramaniam, J. Bautista-Lazo, T. Casanova-Dhome, L. Chan, J. Cortacans, S. Cullen-Baratloo, F. Dreilinger, S. Ducrepin, E. Fu, X. Fu, B. Gao, Y. Gao, A. Hansen, A. Henopp, L. Keifling, D. Kim, P. Lande, S. Larsen, J. Liu, K. McConnell, D. Nathania, E. Passmore, J. Rowell, W. Ryan, E. Smerekanych, M. Sui, C. Vargas, S. Wang, I. Wojtowicz, K. Wosenyeleh, S. Yu, J. Zeng, F. Zheng, T. Zheng, S. Y. Zou
0.50-m f/6.3 Corrected Dall-Kirkham + CCD
USNO-A2.0

(1139), 29, 9, 17; (1627), 8, 4, 17; (6249), 36, 12, 19; (7889), 9, 3, 18; (13553), 17, 6, 18; (76978), 29, 10, 18; *[128, 6, 0*, 2018/07/01–2018/07/20]*

474 Mount John Observatory, Lake Tekapo
A. C. Gilmore, Mt. John University Observatory, P.O. Box 56, NZ-7945 Lake Tekapo, New Zealand [alan.gilmore@canterbury.ac.nz]
Observers A. C. Gilmore, P. M. Kilmartin
1.0-m f/7.7 reflector + CCD
Gaia-DR1, PPMXL, Gaia-DR2

1998 YF_{10}, 4, 1, 0; 2002 RR_{25}, 3, 1, 0; 2004 LB, 3, 1, 0; 2004 PY_{27}, 6, 1, 0; 2005 FG, 5, 1, 0; 2005 PP, 4, 1, 0; 2005 RV_{24}, 4, 1, 0; 2006 QM_{33}, 8, 2, 1; 2007 RZ_8, 4, 1, 0; 2009 HW_{44}, 7, 2, 34; 2009 SK_{104}, 3, 1, 0; 2010 MQ_1, 4, 1, 0; 2011 CX_{46}, 7, 2, 1; 2011 GA_{62}, 4, 1, 0; 2011 UG_{21}, 4, 1, 0; 2011 UG_{201}, 3, 1, 0; 2011 WH_{15}, 3, 1, 0; 2013 QH_{36}, 4, 1, 0; 2013 RV_9, 4, 1, 0; 2013 SS_{20}, 4, 1, 0; 2014 QR_{295}, 4, 1, 0; 2015 TH_{21}, 3, 1, 0; 2016 AM_{131}, 4, 1, 0; 2016 CX_{264}, 8, 2, 28; 2016 JN_{34}, 3, 1, 0; 2016 NT_{22}, 4, 1, 0; 2016 OP_5, 14, 4, 56; 2017 CO_{32}, 4, 1, 0; 2017 SN_{16}, 3, 1, 0; 2017 UW_{51}, 7, 2, 4; 2017 VU_{14}, 4, 1, 0; 2017 XB_2, 3, 1, 0; 2017 XC_{62}, 3, 1, 0; 2017 YF_5, 3, 1, 0; 2018 DX_3, 3, 1, 0; 2018 DJ_4, 4, 1, 0; 2018 FH, 7, 2, 55; 2018 FF_2, 4, 1, 0; 2018 FO_2, 3, 1, 0; 2018 FE_5, 7, 2, 42; 2018 GX_5, 3, 1, 0; 2018 HT_3, 4, 1, 0; 2018 JA, 4, 1, 0; 2018 JZ_1, 3, 1, 0; 2018 JA_3, 4, 1, 0; 2018 KE_3, 3, 1, 0; 2018 KB_4, 4, 1, 0; 2018 LH, 3, 1, 0; 2018 LM, 3, 1, 0; 2018 LY, 4, 1, 0; 2018 LZ, 3, 1, 0; 2018 LJ_1, 3, 1, 0; 2018 LH_2, 3, 1, 0; 2018 LK_2, 3, 1, 0; 2018 LS_2, 3, 1, 0; 2018 LT_2, 4, 1, 0; 2018 LU_3, 3, 1, 0; 2018 LH_4, 4, 1, 0; 2018 LN_4, 4, 1, 0; 2018 LQ_4, 4, 1, 0; 2018 LV_4, 3, 1, 0; 2018 LW_4, 4, 1, 0; 2018 LX_4, 7, 2, 82; 2018 LY_4, 3, 1, 0; 2018 LZ_4, 3, 1, 0; 2018 LB_5, 4, 1, 0; 2018 LF_5, 7, 2, 29; 2018 LM_5, 3, 1, 0; 2018 LN_5, 3, 1, 0; 2018 LO_5, 3, 1, 0; 2018 LQ_5, 3, 1, 0; 2018 LR_5, 3, 1, 0; 2018 LC_6, 3, 1, 0; 2018 LD_6, 3, 1, 0; 2018 LP_6, 4, 1, 0; 2018 LQ_6, 8, 2, 2; 2018 LR_6, 11, 3, 33; 2018 LQ_{15}, 3, 1, 0; 2018 LR_{15}, 3, 1, 0; 2018 LU_{15}, 4, 1, 0; 2018 LY_{15}, 3, 1, 0; 2018 LA_{16}, 8, 2, 9; 2018 LD_{16}, 3, 1, 0; 2018 MH, 2, 1, 0; 2018 MV_4, 10, 3, 22; 2018 MO_5, 14, 4, 57; 2018 MR_5, 7, 2, 7; 2018 MY_6, 3, 1, 0; 2018 MH_7, 5, 1, 0; 2018 MK_8, 7, 2, 5; 2018 NC, 3, 1, 0; 2018 NM, 16, 3, 7; 2018 NN, 12, 3, 8; 2018 NA_1, 3, 1, 0; 2018 NB_1, 4, 1, 0; 2018 NC_1, 4, 1, 0; 2018 NE_1, 4, 1, 0; 2018 NG_1, 5, 1, 0; 2018 NJ_1, 10, 3, 7; 2018 NO_1, 4, 1, 0; 2018 NP_1, 10, 3, 26; 2018 NR_1, 10, 2, 23; 2018 NW_1, 16, 4, 7; 2018 NZ_1, 4, 1, 0; 2018 NA_2, 3, 1, 0; 2018 NF_2, 12, 3, 7; 2018 NG_2, 8, 2, 6; 2018 NH_2, 13, 3, 6; 2018 NJ_2, 7, 2, 5; 2018 NO_2, 4, 1, 0; 2018 NT_2, 7, 2, 2; 2018 NU_2, 4, 1, 0; 2018 NE_3, 3, 1, 0; 2018 NH_3, 4, 1, 0; 2018 NJ_3, 4, 1, 0; 2018 NL_3, 4, 1, 0; 2018 NM_3, 4, 1, 0; 2018 NN_3, 4, 1, 0; 2018 NR_3, 4, 1, 0; 2018 NS_3, 4, 1, 0; 2018 NT_3, 15, 3, 2; 2018 NW_3, 4, 1, 0; 2018 NX_3, 3, 1, 0; 2018 NZ_3, 4, 1, 0; 2018 NB_4, 7, 2, 2; 2018 NC_4, 10, 3, 27; 2018 NH_4, 3, 1, 0; 2018 NN_4, 7, 2, 7; 2018 NR_4, 11, 3, 30; 2018 NT_4, 3, 1, 0; 2018 NX_{14}, 8, 2, 6; 2018 NB_{15}, 8, 2, 2; 2018 NC_{15}, 5, 1, 0; 2018 OB, 4, 1, 0; 2018 OF, 8, 2, 1; 2018 OG, 3, 1, 0; 2018 OK, 4, 1, 0; 2018 OL, 9, 2, 1; 2018 OM, 10, 2, 1; 2018 PR_7, 8, 2, 1; 2018 PT_7, 3, 1, 0; 2018 PG_8, 6, 2, 2; 2018 PL_8, 7, 2, 2; 2018 PY_8, 3, 1, 0; 2018 PZ_8, 4, 1, 0; 2018 PB_9, 4, 1, 0; 2018 PC_9, 4, 1, 0; 2018 PD_9, 7, 2, 2; 2018 PF_9, 7, 2, 2; 2018 PG_9, 3, 1, 0; 2018 PH_9, 8, 2, 1; 2018 PQ_9, 4, 1, 0; 2018 PS_9, 3, 1, 0; 2018 PT_9, 3, 1, 0; 2018 PU_9, 4, 1, 0; 2018 PV_9, 8, 2, 1; 2018 PW_9, 7, 2, 1; 2018 PZ_9, 3, 1, 0; 2018 PA_{10}, 8, 2, 2; 2018 PB_{10}, 3, 1, 0; 2018 PC_{10}, 6, 2, 1; 2018 PD_{10}, 7, 2, 1; 2018 PJ_{10}, 9, 2, 1; 2018 PK_{10}, 3, 1, 0; 2018 PL_{10}, 3, 1, 0; 2018 PO_{10}, 4, 1, 0; 2018 PP_{10}, 12, 3, 2; 2018 PR_{10}, 8, 2, 2; 2018 PY_{19}, 3, 1, 0; 2018 PB_{20}, 3, 1, 0; 2018 PF_{21}, 3, 1, 0; 2018 PT_{21}, 6, 2, 2; 2018 PU_{21}, 4, 1, 0; 2018 PV_{21}, 4, 1, 0; 2018 PB_{22}, 3, 1, 0; 2018 PH_{22}, 6, 1, 0; 2018 PO_{22}, 4, 1, 0; 2018 PL_{23}, 4, 1, 0; 2018 PV_{23}, 3, 1, 0; 2018 PX_{23}, 4, 1, 0; 2018 PP_{24}, 4, 1, 0; 2018 QQ, 4, 1, 0; 2018 RC, 19, 4, 7; 2018 RD, 6, 2, 1; 2018 RE, 18, 5, 7; 2018 RM, 7, 2, 1; 2018 RN, 4, 1, 0; 2018 RU, 3, 1, 0; 2018 RX, 7, 2, 1; 2018 RY, 4, 1, 0; 2018 RZ, 3, 1, 0; 2018 RA_1, 12, 3, 5; 2018 RB_1, 8, 2, 2; 2018 RC_1, 3, 1, 0; 2018 RD_1, 8, 2, 2; 2018 RE_1, 4, 1, 0; 2018 RF_1, 3, 1, 0; 2018 RH_1, 8, 2, 1; 2018 RJ_1, 4, 1, 0; 2018 RN_1, 6, 1, 0; 2018 RO_1, 3, 1, 0; 2018 RP_1, 3, 1, 0; 2018 RQ_1, 6, 2, 4; 2018 RR_1, 3, 1, 0; 2018 RU_1, 3, 1, 0; 2018 RW_1, 3, 1, 0; 2018 RX_1, 4, 1, 0; 2018 RY_1, 11, 3, 7; 2018 RZ_1, 13, 4, 7; 2018 RA_2, 7, 2, 1; 2018 RC_2, 10, 3, 7; 2018 RF_2, 3, 1, 0; 2018 RG_2, 3, 1, 0; 2018 RH_2, 7, 2, 1; 2018 RM_2, 4, 1, 0; 2018 RN_2, 8, 2, 4; 2018 RO_2, 14, 4, 7; 2018 RP_2, 7, 2, 1; 2018 RY_2, 12, 3, 7; 2018 RZ_2, 4, 1, 0; 2018 RH_3, 8, 2, 3; 2018 RJ_3, 3, 1, 0; 2018 RU_3, 7, 2, 4; 2018 RX_3, 4, 1, 0; 2018 RY_3, 4, 1, 0; 2018 RZ_3, 3, 1, 0; 2018 RA_4, 4, 1, 0; 2018 RC_4, 4, 1, 0; 2018 RD_4, 5, 1, 0; 2018 RP_4, 4, 1, 0; 2018 RT_4, 2, 1, 0; 2018 RW_4, 3, 1, 0; 2018 RB_5, 3, 1, 0; 2018 RC_5, 3, 1, 0; 2018 RE_5, 5, 1, 0; 2018 RP_5, 9, 2, 1; 2018 RQ_5, 8, 2, 1; 2018 RR_5, 8, 2, 1; 2018 RS_5, 4, 1, 0; 2018 RY_5, 7, 2, 1; 2018 RH_6, 4, 1, 0; 2018 RK_6, 5, 1, 0; 2018 RN_6, 8, 2, 1; 2018 RD_7, 4, 1, 0; 2018 RM_7, 4, 1, 0; 2018 RV_7, 4, 1, 0; 2018 RW_7, 6, 2, 1; 2018 RX_7, 3, 1, 0; 2018 RT_8, 3, 1, 0; 2018 RU_8, 4, 1, 0; (516984), 4, 1, 0; *[1335, 251, 0*, 2018/06/07–2018/09/15]*

493 Calar Alto
F. Hormuth, Centro Astronómico Hispano Alemán, C/ Jesús Durbán Remón 2-2, E-04004 Almería, Spain [hormuth@mpia.eu]
3.5-m f/2.7 reflector + CCD
USNO-A2.0

2013 EG_{158}, 3, 1, 0; 2013 FD_{30}, 3, 1, 0; *[6, 2, 0*, 2011/12/27–2013/05/09]*

511 Haute Provence
J. E. Arlot, IMCCE, Observatoire de Paris, 61 Avenue de l'Observatoire, F-75014 Paris, France [arlot@bdl.fr]
Observers V. Robert, E. Saquet, C. Boucher, R. Camp, J.-F. Paix, C. Piriou, E. Sacher, J. Balcean, B. Balusseau, N. Carmignac, A. Fournier, G. Querzola, D. Rediger-Lizlov, W. Thuillot, M. Dennefeld, S. Bouquillon, B. Carry, M. Delbo, P. Tanga, F. Taris, K. Baillié, P. Tan, H. Boussier, K. Baillie, D. Souami, F. Spoto
Measurers W. Thuillot, F. Spoto, S. Bouquillon, F. Taris, T. Carlucci, C. Barache, H. Boussier
1.20-m f/6 reflector + CCD, 0.08-m f/6.8 Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4

2012 AA_{25}, 3, 1, 0; 2014 TY_{39}, 7, 1, 0; 2017 SF_{132} *, 15, 2, 2; 2018 NM_7 *, 22, 3, 2; 2018 NO_{12} *, 14, 2, 1; 2018 ON, 6, 1, 0; 2018 RU_8, 5, 1, 0; (26790), 5, 1, 0; (43774), 5, 1, 0; *[82, 9, 3*, 2017/09/22–2018/09/11]*

557 Ondřejov
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]
Observers P. Kušnirák, K. Hornoch, H. Kucakova, P. Fatka
0.65-m f/3.6 reflector + CCD
UCAC-3

2011 GA_{62}, 29, 7, 7; (3677), 23, 5, 9; (10108), 17, 4, 7; (11272), 8, 2, 2; (17511), 13, 4, 4; (25328), 13, 3, 2; (28959), 5, 1, 0; (44568), 3, 1, 0; (44620), 29, 6, 18; (66391), 44, 10, 15; (66432), 17, 4, 9; (68513), 3, 1, 0; *[204, 12, 0*, 2018/05/14–2018/08/23]*

561 Piszkéstető

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2006 XJ_{74} *, 4, 1, 0; *[4, 1, 1*, 2006/12/13–2006/12/14]*

566 Haleakala-NEAT/GEODSS

R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
Observers R. Bambery, E. F. Helin, S. Pravdo, M. Hicks, K. Lawrence, P. Kervin, J. Africano, R. Thicksten
Measurers E. Colombini, R. Matson, H. Bill
1.0-m f/2.2 Ritchey-Chrétien + CCD
PPMXL, USNO-A2.0

2014 BF_{41}, 9, 3, 3; 2017 YC_8, 2, 1, 0; (19629), 2, 1, 0; (27532), 3, 1, 0; (33270), 3, 1, 0; (58930), 3, 1, 0; (152664), 2, 1, 0; (198687), 2, 1, 0; (242259), 3, 1, 0; (336723), 3, 1, 0; *[32, 10, 0*, 1997/02/03–1999/02/19]*

568 Mauna Kea

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J.-M. Petit, no details supplied (41)
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Measurers S. D. J. Gwyn, Y.-T. Chen, M. Alexandersen, P. A. Wiegert, R. Weryk, R. Wainscoat, M. Micheli, R. J. Wainscoat, J. V. Keane, J. Kleyna, J. Aguirre Amaya, F. Arias Arias, D. A. Calvo Calvo, S. Deen, M. Diaz Rodriguez, F. J. Gallego Rivera, J. Lanza Garcia, A. Lasala Garcia, V. Linares Pagan, D. Mavrich, J. L. Moreno Diaz, J. M. Mozaz Pascual, R. Porto Dacal, C. Rodrigo, I. Rodriguez Jauregui, O. Santanatalia, E. Solano, S. Sopelana, F. Tevar Fernandez, P. Vazquez Lucena, J. Vidal Sainz, C. Kitada, F. Yoshida, M. Cortes, F. Jimenez, A. Yamane, H. Pachon Sanchez, J. M. De La Osa Lopez, R. Quejigo Gutierrez, Y. Ramanjooloo, R. Leiva
3.6-m Canada-France-Hawaii Telescope + MegaCam, 3.80-m reflector + CCD, 8.2-m Subaru Telescope + CCD
Gaia-DR1, UCAC-4, USNO-B1.0, Gaia-DR2

{19} 2002 QP_{156}, 4, 2, 1; 2005 WP_{212}, 3, 1, 0; 2006 AH_{108}, 3, 1, 0; 2006 HD_{155}, 3, 1, 0; 2006 SM_{416} *, 4, 2, 1; 2006 SN_{416} *, 4, 2, 1; 2006 SO_{416} *, 4, 2, 1; 2006 SP_{416} *, 4, 2, 1; 2006 SQ_{416} *, 4, 2, 1; 2006 SR_{416} *, 4, 2, 1; 2006 SS_{416} *, 4, 2, 1; 2006 ST_{416} *, 4, 2, 1; 2006 SU_{416} *, 4, 2, 1; 2006 SV_{416} *, 8, 2, 1; 2006 SW_{416} *, 4, 2, 1; 2006 SX_{416} *, 4, 2, 1; 2006 SY_{416} *, 4, 2, 1; 2006 SZ_{416} *, 4, 2, 1; 2006 SA_{417} *, 4, 2, 1; 2006 SB_{417} *, 4, 2, 1; 2006 SC_{417} *, 4, 2, 1; 2006 SD_{417} *, 4, 2, 1; 2006 SE_{417} *, 4, 2, 1; 2006 SF_{417} *, 4, 2, 1; 2006 SG_{417} *, 4, 2, 1; 2006 SH_{417} *, 4, 2, 1; 2006 SJ_{417} *, 4, 2, 1; 2006 SK_{417} *, 4, 2, 1; 2006 SL_{417} *, 4, 2, 1; 2006 SM_{417} *, 4, 2, 1; 2006 SN_{417} *, 4, 2, 1; 2006 SO_{417} *, 4, 2, 1; 2006 SP_{417} *, 4, 2, 1; 2006 SQ_{417} *, 4, 2, 1; 2006 SR_{417} *, 4, 2, 1; 2006 SS_{417} *, 4, 2, 1; 2006 ST_{417} *, 4, 2, 1; 2006 SU_{417} *, 4, 2, 1; 2006 SV_{417} *, 4, 2, 1; 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2009 DU_{145} *, 4, 2, 1; 2009 DV_{145} *, 4, 2, 1; 2009 DW_{145} *, 4, 2, 1; 2009 DX_{145} *, 4, 2, 1; 2009 DY_{145} *, 4, 2, 1; 2009 DZ_{145} *, 4, 2, 1; 2009 DA_{146} *, 8, 4, 3; 2009 DB_{146} *, 4, 2, 1; 2009 DC_{146} *, 4, 2, 1; 2009 DD_{146} *, 8, 4, 3; 2009 EE_{32} *, 6, 2, 1; 2009 EF_{32} *, 4, 2, 1; 2009 EG_{32} *, 4, 2, 1; 2009 EH_{32} *, 8, 4, 3; 2009 EJ_{32} *, 6, 2, 1; 2009 EK_{32} *, 4, 2, 1; 2009 EL_{32} *, 6, 2, 1; 2009 EM_{32} *, 4, 2, 1; 2009 EN_{32} *, 4, 2, 1; 2009 FJ_{80} *, 4, 2, 2; 2009 FK_{80} *, 4, 2, 2; 2009 FL_{80} *, 4, 2, 2; 2009 FM_{80} *, 4, 2, 2; 2009 FN_{80} *, 4, 2, 2; 2009 FO_{80} *, 4, 2, 2; 2009 FP_{80} *, 4, 2, 2; 2009 FQ_{80} *, 4, 2, 2; 2009 FR_{80} *, 4, 2, 2; 2009 FS_{80} *, 4, 2, 2; 2009 FT_{80} *, 4, 2, 2; 2009 FU_{80} *, 4, 2, 2; 2009 FV_{80} *, 6, 2, 1; 2009 FW_{80} *, 4, 2, 1; 2009 FX_{80} *, 6, 2, 1; 2009 FY_{80} *, 4, 2, 1; 2009 FZ_{80} *, 4, 2, 1; 2009 FA_{81} *, 4, 2, 1; 2009 FB_{81} *, 6, 2, 1; 2009 FC_{81} *, 8, 4, 3; 2009 FD_{81} *, 4, 2, 1; 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2, 2; 2011 UV_{55}, 4, 2, 1; 2011 WU_{33}, 4, 2, 1; 2012 SV_{71}, 3, 1, 0; 2012 TU_{284}, 4, 2, 1; 2012 UJ_{148}, 4, 2, 1; 2012 VE_{76}, 10, 4, 4; 2013 BV_{22}, 6, 2, 1; 2013 BX_{82}, 4, 2, 1; 2013 EH_{125}, 10, 4, 3; 2013 PL_{25}, 4, 2, 1; 2013 YR_{152}, 4, 2, 1; 2014 CG_{23}, 4, 2, 1; 2014 DK_{115}, 4, 2, 1; 2014 KU_{82}, 9, 3, 2; 2014 OF_{26}, 4, 2, 2; 2014 OB_{157}, 4, 2, 1; 2014 PQ_{41}, 4, 2, 1; 2014 QB_{478}, 3, 1, 0; 2014 QW_{494}, 3, 1, 0; 2014 RB_{30}, 3, 1, 0; 2014 TL_{87}, 3, 1, 0; 2014 WH_{119}, 3, 1, 0; 2015 FH_{320}, 4, 2, 1; 2015 FQ_{386}, 4, 2, 1; 2015 TW_{200}, 4, 2, 1; 2016 KB_{9}, 3, 1, 0; 2017 PF_{16}, 3, 1, 0; 2017 XJ_{31}, 6, 2, 1; 2017 XT_{45}, 9, 3, 2; (7112), 4, 2, 1; (11002), 4, 2, 1; (24262), 4, 2, 1; (24617), 4, 2, 2; (31431), 4, 2, 1; (31717), 8, 4, 5; (34790), 4, 2, 1; (50435), 7, 2, 1; (51123), 4, 2, 2; (51556), 4, 2, 1; (52540), 4, 2, 1; (52547), 6, 2, 1; (55072), 4, 2, 1; (55961), 6, 2, 1; (60568), 6, 2, 1; (64071), 9, 3, 2; (65469), 4, 2, 1; (68298), 4, 2, 1; (71538), 4, 2, 2; (73258), 4, 2, 1; (76264), 4, 2, 2; (78221), 10, 4, 4; (82845), 4, 2, 1; (83139), 4, 2, 1; (84252), 4, 2, 1; (84653), 4, 2, 1; (90522), 6, 2, 1; (101470), 4, 2, 1; (115765), 4, 2, 2; (129815), 4, 2, 2; (135286), 4, 2, 2; (135670), 4, 2, 1; (136334), 4, 2, 2; (136838), 6, 2, 1; (138469), 6, 2, 1; (139431), 6, 2, 1; (140286), 4, 2, 1; (140546), 4, 2, 1; (142724), 4, 2, 2; (143923), 4, 2, 1; (144803), 6, 2, 1; (165351), 6, 2, 1; (168836), 6, 2, 1; (172593), 13, 4, 4; (177007), 4, 2, 1; (177822), 4, 2, 1; (186216), 13, 4, 4; (190266), 7, 2, 1; (209283), 4, 2, 1; (209811), 4, 2, 1; (210985), 8, 4, 5; (211429), 4, 2, 1; (212142), 6, 2, 1; (239906), 4, 2, 1; (243995), 4, 2, 1; (244139), 11, 4, 3; (246486), 4, 2, 1; (250611), 4, 2, 1; (251030), 4, 2, 1; (262346), 6, 2, 1; (278514), 4, 2, 2; (280432), 4, 2, 1; (286980), 6, 2, 1; (291827), 4, 2, 1; (296302), 7, 3, 2; (300846), 8, 4, 3; (302061), 7, 2, 1; (302763), 4, 2, 1; (307472), 9, 3, 2; (309939), 9, 3, 2; (309945), 6, 2, 1; (317176), 4, 2, 2; (337943), 4, 2, 1; (341725), 4, 2, 1; (344263), 4, 2, 2; (346846), 4, 2, 1; (347650), 4, 2, 2; (353619), 4, 2, 1; (354659), 6, 2, 1; (357017), 10, 4, 3; (360567), 10, 4, 3; (361604), 4, 2, 1; (372347), 4, 2, 1; (387167), 4, 2, 1; (387473), 4, 2, 2; (388411), 4, 2, 1; (396554), 4, 2, 1; (400022), 4, 2, 1; (417415), 7, 3, 2; (420874), 4, 2, 1; (433258), 4, 2, 1; (433663), 8, 4, 3; (435033), 6, 2, 1; (435357), 4, 2, 1; (435387), 9, 3, 2; (436628), 4, 2, 1; (437273), 4, 2, 1; (439391), 4, 2, 2; (439465), 13, 4, 6; (439726), 6, 2, 1; (439782), 6, 2, 1; (440040), 6, 2, 1; (443719), 4, 2, 1; (449286), 8, 4, 5; (449655), 4, 2, 1; (453905), 4, 2, 2; (454541), 6, 2, 1; (459039), 4, 2, 1; (466919), 4, 2, 1; (467996), 4, 2, 1; (473148), 4, 2, 1; (473278), 4, 2, 1; (484816), 10, 3, 2; (485522), 4, 2, 1; (486884), 6, 2, 1; (487627), 4, 2, 1; (491775), 4, 2, 1; (501386), 4, 2, 1; (506000), 4, 2, 1; (506071), 4, 2, 2; (507550), 4, 2, 1; (512368), 4, 2, 1; (515604), 4, 2, 1; (518985), 4, 2, 2; (519452), 6, 2, 1; *[1889, 404, 234∗, 2003/08/31–2009/07/21]*

{20} 2014 PM_{31}, 3, 1, 0; 2014 SR_{240}, 3, 1, 0; 2017 DO_{31}, 6, 2, 14; *[12, 3, 0∗, 2005/10/24–2005/12/02]*

{2} 2005 SS_{294}, 4, 1, 0; 2010 XY_{93}, 3, 1, 0; 2010 YW_{5}, 3, 1, 0; 2011 UF_{418} ∗, 6, 1, 0; 2014 QZ_{479}, 5, 2, 4; 2014 YC_{23}, 2, 1, 0; 2016 KA_{7}, 3, 1, 0; 2018 QO_{5}, 2, 1, 0; *[28, 8, 1∗, 2004/06/17–2015/02/25]*

{5} 2017 OF_{69} ∗, 2, 1, 0; *[2, 1, 1∗, 2017/07/26]*

{9} 2013 QH_{36}, 2, 1, 0; 2015 UU_{85}, 3, 1, 0; 2017 BJ_{35}, 5, 1, 0; *[10, 3, 0∗, 2006/08/23–2007/04/15]*

{37} 2012 TJ_{331}, 12, 1, 0; *[12, 1, 0∗, 2011/06/06]*

{41} 2011 US_{410}, 3, 1, 0; 2011 UT_{410}, 3, 1, 0; 2011 UG_{411}, 3, 1, 0; 2011 UD_{412}, 3, 1, 0; 2015 GY_{53} ∗, 21, 16, 422; 2015 GA_{54} ∗, 34, 21, 503; 2015 GB_{54} ∗, 22, 17, 477; 2015 HP_{9}, 25, 18, 417; 2015 KH_{172} ∗, 16, 12, 411; 2015 KJ_{172} ∗, 19, 13, 497; 2015 RR_{245}, 49, 25, 796; 2015 RC_{277} ∗, 36, 25, 914; 2015 RD_{277} ∗, 33, 22, 857; 2015 RE_{277} ∗, 19, 12, 499; 2015 RF_{277} ∗, 25, 19, 559; 2015 RG_{277} ∗, 36, 22, 583; 2015 RH_{277} ∗, 21, 15, 559; 2015 RJ_{277} ∗, 38, 23, 587; 2015 RK_{277} ∗, 50, 26, 559; 2015 RL_{277} ∗, 17, 14, 462; 2015 VA_{164} ∗, 29, 22, 846; 2015 VB_{164} ∗, 37, 27, 846; 2015 VC_{164} ∗, 29, 19, 801; 2015 VD_{164} ∗, 29, 22, 831; 2015 VE_{164} ∗, 22, 14, 501; 2015 VF_{164} ∗, 22, 16, 474; *[641, 26, 20∗, 2015/02/17–2017/12/23]*

{43} 2010 BV_{5}, 11, 1, 0; 2011 AO_{83}, 14, 1, 0; *[25, 2, 0∗, 2015/01/16–2015/01/27]*

{49} 2002 QX_{47}, 4, 3, 3; 2006 QE_{181}, 5, 3, 3; 2006 UO_{321}, 4, 3, 3; 2013 SN_{100}, 5, 3, 3; 2013 SV_{100}, 5, 3, 3; 2013 SB_{101}, 5, 3, 3; 2013 UG_{17}, 4, 3, 3; 2013 UL_{17}, 5, 3, 3; 2013 UN_{17}, 5, 3, 3; (248835), 11, 3, 3; (504555), 1, 1, 0; *[54, 11, 0∗, 2018/09/09–2018/09/12]*

{28} 1999 RB_{32}, 3, 1, 0; 2005 RV_{24}, 3, 1, 0; 2011 SF_{174}, 3, 1, 0; 2018 KG_{3}, 3, 1, 0; 2018 KB_{4}, 3, 1, 0; 2018 LB_{1}, 3, 1, 0; 2018 LD_{1}, 3, 1, 0; 2018 LE_{1}, 2, 1, 0; 2018 LJ_{3}, 3, 1, 0; 2018 LO_{3}, 3, 1, 0; 2018 LR_{3}, 3, 1, 0; 2018 LO_{4}, 3, 1, 0; 2018 LQ_{4}, 3, 1, 0; 2018 LH_{5}, 3, 1, 0; 2018 LK_{5}, 2, 1, 0; 2018 LN_{5}, 3, 1, 0; 2018 LP_{5}, 3, 1, 0; 2018 LR_{5}, 3, 1, 0; 2018 LS_{5}, 2, 1, 0; 2018 LT_{5}, 2, 1, 0; 2018 LY_{5}, 8, 2, 1; 2018 LZ_{5}, 3, 1, 0; 2018 LA_{6}, 3, 1, 0; 2018 LC_{6}, 3, 1, 0; 2018 LD_{6}, 3, 1, 0; 2018 LO_{6}, 3, 1, 0; 2018 LS_{6}, 3, 1, 0; 2018 LZ_{13}, 3, 1, 0; 2018 LP_{15}, 3, 1, 0; 2018 LQ_{15}, 9, 2, 2; 2018 LR_{15}, 6, 1, 0; 2018 LT_{15}, 3, 1, 0; 2018 LU_{15}, 6, 1, 0; 2018 LV_{15}, 3, 1, 0; 2018 LW_{15}, 3, 1, 0; 2018 LB_{16}, 1, 1, 0; 2018 LC_{16}, 3, 1, 0; 2018 LD_{16}, 3, 1, 0; 2018 LG_{16}, 3, 1, 0; 2018 MA, 3, 1, 0; 2018 MH, 2, 1, 0; 2018 MU_{4}, 3, 1, 0; 2018 MT_{8}, 3, 1, 0; 2018 NM, 3, 1, 0; 2018 NY_{14}, 1, 1, 0; 2018 NC_{15}, 3, 1, 0; 2018 OF, 6, 1, 0; 2018 OR, 11, 2, 47; 2018 OS, 9, 1, 0; 2018 OT, 15, 2, 2; 2018 PM_{20} ∗, 3, 1, 0; 2018 PU_{23}, 3, 1, 0; *[193, 52, 1∗, 2010/11/08–2018/09/05]*

{29} 1998 UD_{51}, 3, 1, 0; 2000 GB_{2}, 3, 1, 0; 2007 PR_{10}, 4, 1, 0; 2007 TA_{457}, 3, 1, 0; 2009 BQ_{124}, 3, 1, 0; 2013 RY_{107}, 3, 1, 0; 2014 QZ_{479} ∗, 6, 1, 0; 2014 ST_{241}, 3, 1, 0; 2014 SW_{303}, 3, 1, 0; 2017 DQ_{35}, 3, 1, 0; 2017 UX_{51}, 2, 1, 0; 2018 DO_{4}, 2, 1, 0; 2018 LF_{1}, 2, 1, 0; 2018 PC_{8}, 3, 1, 0; 2018 PQ_{8} ∗, 3, 1, 0; 2018 PT_{8}, 3, 1, 0; 2018 PC_{9}, 2, 1, 0; 2018 PD_{9}, 3, 1, 0; 2018 PE_{9}, 3, 1, 0; 2018 PH_{9}, 3, 1, 0; 2018 PK_{9}, 2, 1, 0; 2018 PH_{10}, 3, 1, 0; 2018 PJ_{10}, 6, 2, 3; 2018 PN_{10}, 3, 1, 0; 2018 PQ_{10}, 3, 1, 0; 2018 PV_{10}, 2, 1, 0; 2018 PZ_{19}, 3, 1, 0; 2018 PB_{20}, 3, 1, 0; 2018 PJ_{20}, 3, 1, 0; 2018 PO_{20}, 3, 1, 0; 2018 PT_{20}, 4, 1, 0; 2018 PW_{20}, 2, 1, 0; 2018 PZ_{20}, 3, 1, 0; 2018 PA_{21}, 3, 1, 0; 2018 PC_{21}, 3, 1, 0; 2018 PH_{21}, 3, 1, 0; 2018 PJ_{21}, 3, 1, 0; 2018 PL_{21}, 3, 1, 0; 2018 PM_{21}, 3, 1, 0; 2018 PN_{21}, 3, 1, 0; 2018 PV_{21}, 3, 1, 0; 2018 PW_{21}, 3, 1, 0; 2018 PX_{21}, 3, 1, 0; 2018 PY_{21}, 3, 1, 0; 2018 PZ_{21}, 3, 1, 0; 2018 PA_{22}, 3, 1, 0; 2018 PC_{22}, 3, 1, 0; 2018 PG_{22}, 2, 1, 0; 2018 PL_{22}, 3, 1, 0; 2018 PN_{22}, 4, 1, 0; 2018 PW_{22}, 3, 1, 0; 2018 PF_{23}, 2, 1, 0; 2018 PM_{23}, 3, 1, 0; 2018 PW_{23}, 3, 1, 0; 2018 PY_{23}, 3, 1, 0; 2018 PP_{24}, 7, 2, 2; 2018 PQ_{24}, 3, 1, 0; 2018 PV_{24}, 3, 1, 0; 2018 PW_{24}, 3, 1, 0; 2018 PY_{24}, 3, 1, 0; *[184, 60, 2∗, 2010/12/13–2018/08/14]*

{30} 2002 CY_{315}, 29, 4, 11; 2002 LW_{64}, 4, 2, 1; 2002 PN_{7}, 5, 2, 6; 2002 RR_{124}, 2, 1, 0; 2002 UD_{73}, 11, 2, 1; 2002 UA_{80}, 6, 2, 1; 2002 WF_{5}, 3, 1, 0; 2002 WV_{30}, 6, 2, 6; 2003 SO_{79}, 4, 1, 0; 2003 SS_{150}, 5, 2, 9; 2003 WN_{156}, 4, 1, 0; 2004 FQ_{109}, 6, 1, 0; 2005 QQ_{40}, 2, 1, 0; 2005 UZ_{6}, 14, 2, 1; 2005 UP_{487}, 4, 1, 0; 2005 UD_{497}, 2, 1, 0; 2006 BQ_{124}, 3, 1, 0; 2006 QZ_{111}, 2, 1, 0; 2006 SV_{270}, 4, 1, 0; 2006 WT_{57}, 2, 1, 0; 2006 YO_{42}, 2, 1, 0; 2007 RT_{5}, 12, 2, 1; 2007 RD_{302}, 13, 2, 1; 2007 TK_{50}, 11, 2, 3; 2008 AA_{109}, 19, 1, 0; 2008 CU_{118}, 2, 1, 0; 2008 RY_{130}, 2, 1, 0; 2008 TD_{95}, 6, 2, 5; 2008 YS_{126}, 5, 2, 2; 2009 ST_{19}, 4, 1, 0; 2009 VK_{2}, 4, 1, 0; 2009 YD_{13}, 9, 5, 30; 2010 AZ_{60}, 13, 3, 7; 2010 MO_{51}, 2, 1, 0; 2010 PQ_{63}, 4, 2, 2; 2010 RH_{39}, 19, 4, 6; 2010 TB_{71}, 19, 3, 4; 2010 TM_{170}, 8, 2, 3; 2010 TG_{186}, 4, 2, 6; 2010 VE_{171}, 2, 1, 0; 2010 VN_{201}, 22, 4, 6; 2010 XZ_{55}, 2, 1, 0; 2011 KL_{17}, 4, 2, 1; 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(355134), 5, 1, 0; (355597), 2, 1, 0; (355779), 4, 1, 0; (356237), 28, 2, 5; (356260), 4, 2, 1; (356883), 2, 1, 0; (357199), 4, 1, 0; (357431), 9, 1, 0; (357822), 20, 2, 6; (358673), 12, 1, 0; (358695), 8, 2, 2; (358732), 2, 1, 0; (359411), 3, 2, 3; (360021), 2, 2, 6; (360474), 12, 1, 0; (360545), 2, 1, 0; (360766), 7, 2, 3; (360844), 22, 4, 5; (360887), 2, 2, 2; (360975), 2, 1, 0; (361005), 2, 1, 0; (361302), 2, 1, 0; (361382), 5, 1, 0; (362021), 4, 2, 2; (362091), 2, 1, 0; (362754), 9, 3, 3; (363696), 4, 1, 0; (364676), 2, 2, 5; (365192), 2, 1, 0; (365294), 51, 7, 8; (366445), 28, 3, 2; (367261), 4, 1, 0; (367451), 3, 1, 0; (368079), 12, 3, 2; (368306), 4, 1, 0; (369642), 9, 3, 2; (370052), 6, 1, 0; (371166), 5, 2, 3; (371714), 8, 1, 0; (371954), 10, 2, 1; (372018), 4, 1, 0; (373182), 16, 3, 4; (373432), 21, 2, 1; (373947), 4, 1, 0; (374073), 10, 2, 1; (374811), 9, 2, 1; (376741), 19, 7, 20; (377310), 3, 1, 0; (377330), 3, 1, 0; (377435), 18, 6, 12; (377668), 3, 1, 0; (378718), 9, 3, 2; (380892), 5, 3, 5; (381888), 10, 3, 9; (382350), 8, 2, 1; (383617), 14, 4, 10; (385331), 24, 6, 10; (385432), 2, 1, 0; (385449), 8, 3, 6; (385473), 2, 1, 0; (386091), 2, 1, 0; (386920), 26, 3, 2; (387761), 3, 1, 0; (387764), 3, 1, 0; (388563), 13, 1, 0; (388566), 4, 2, 1; (388832), 10, 2, 1; (389231), 5, 2, 1; (389334), 9, 3, 9; (390649), 11, 1, 0; (390831), 12, 2, 3; (390840), 4, 1, 0; (390848), 6, 1, 0; (391062), 5, 3, 4; (391703), 3, 1, 0; (391882), 2, 1, 0; (392387), 3, 3, 6; (392964), 4, 1, 0; (393040), 3, 2, 4; (394491), 22, 2, 1; (395218), 6, 1, 0; (396089), 20, 3, 5; (396701), 12, 3, 6; (396795), 4, 1, 0; (396910), 13, 3, 9; (397257), 6, 1, 0; (397793), 3, 2, 37; (399157), 2, 2, 1; (399439), 14, 2, 2; (399499), 2, 1, 0; (399544), 3, 1, 0; (399551), 8, 2, 2; (400835), 4, 1, 0; (400905), 2, 1, 0; (401166), 9, 1, 0; (401288), 12, 3, 9; (401533), 2, 1, 0; (401884), 3, 1, 0; (402017), 12, 1, 0; (404233), 6, 1, 0; (404411), 10, 2, 11; (404541), 4, 1, 0; (404550), 3, 1, 0; (404859), 4, 2, 1; (405300), 5, 2, 2; (407267), 5, 2, 3; (409800), 5, 1, 0; (409806), 3, 3, 12; (410271), 2, 1, 0; (410512), 2, 1, 0; (411999), 5, 2, 5; (412013), 20, 2, 1; (412256), 4, 1, 0; (412477), 5, 1, 0; (412540), 8, 2, 4; (412573), 2, 1, 0; (413125), 15, 2, 3; (413165), 6, 5, 14; (413280), 8, 2, 2; (415808), 17, 2, 1; (416250), 8, 2, 1; (416259), 2, 1, 0; (416511), 4, 1, 0; (417730), 2, 1, 0; (417760), 5, 2, 1; (418245), 4, 1, 0; (419820), 4, 1, 0; (420388), 9, 2, 4; (421424), 6, 3, 12; (421875), 6, 2, 3; (422033), 2, 1, 0; (422204), 7, 1, 0; (422595), 4, 1, 0; (423674), 7, 1, 0; (425476), 4, 1, 0; (426466), 9, 2, 1; (426862), 3, 1, 0; (427492), 3, 1, 0; (427584), 8, 2, 3; (427718), 8, 3, 9; (429572), 2, 1, 0; (429979), 2, 2, 1; (430376), 7, 3, 8; (430833), 2, 1, 0; (432836), 2, 1, 0; (433336), 3, 2, 4; (433675), 6, 2, 9; (433677), 13, 3, 5; (433690), 4, 1, 0; (434227), 2, 1, 0; (434260), 2, 1, 0; (434266), 2, 2, 9; (435208), 2, 1, 0; (439344), 2, 1, 0; (439438), 3, 1, 0; (439458), 4, 2, 7; (440280), 7, 2, 1; (440288), 4, 1, 0; (440295), 22, 2, 2; (441385), 3, 2, 3; (442631), 4, 1, 0; (443933), 3, 2, 1; (443940), 7, 3, 24; (444077), 2, 1, 0; (444957), 13, 3, 3; (446150), 12, 2, 1; (446215), 6, 1, 0; (446618), 2, 2, 3; (446988), 2, 1, 0; (448422), 3, 1, 0; (450857), 6, 1, 0; (451580), 2, 1, 0; (451793), 2, 1, 0; (452324), 2, 1, 0; (453122), 2, 1, 0; (455466), 3, 1, 0; (455590), 2, 1, 0; (456836), 6, 1, 0; (456902), 2, 1, 0; (457233), 3, 1, 0; (460269), 3, 1, 0; (462081), 6, 3, 4; (462108), 2, 1, 0; (462299), 5, 2, 4; (463077), 4, 2, 1; (463652), 13, 4, 6; (463880), 5, 1, 0; (464269), 7, 1, 0; (464525), 6, 1, 0; (465540), 5, 3, 5; (467469), 4, 1, 0; (467506), 28, 6, 7; (468530), 22, 4, 5; (468858), 19, 5, 4; (469592), 2, 1, 0; (471488), 4, 1, 0; (471593), 16, 4, 6; (472211), 3, 2, 13; (472417), 5, 1, 0; (472821), 9, 2, 1; (473170), 16, 5, 4; (474461), 4, 2, 11; (475631), 8, 2, 1; (475749), 3, 2, 3; (477089), 23, 2, 1; (477517), 12, 2, 1; (477897), 2, 1, 0; (478815), 5, 1, 0; (479991), 7, 2, 1; (480353), 4, 1, 0; (481009), 2, 1, 0; (481227), 5, 1, 0; (481653), 17, 6, 7; (481896), 2, 1, 0; (482061), 3, 2, 3; (482642), 11, 2, 1; (483635), 14, 4, 4; (483721), 2, 2, 3; (484095), 4, 1, 0; (484730), 3, 1, 0; (484800), 4, 2, 6; (485453), 12, 4, 6; (485700), 17, 3, 4; (486407), 4, 1, 0; (486822), 3, 1, 0; (486948), 10, 1, 0; (486983), 4, 1, 0; (487233), 11, 2, 1; (487442), 5, 2, 1; (487726), 13, 2, 1; (488445), 11, 3, 14; (488550), 2, 1, 0; (488607), 3, 2, 9; (489774), 2, 1, 0; (492823), 3, 1, 0; (493760), 3, 2, 3; (494687), 6, 1, 0; (495915), 6, 1, 0; (496919), 5, 2, 1; (497008), 12, 1, 0; (497172), 2, 1, 0; (497488), 4, 1, 0; (499347), 7, 1, 0; (499947), 24, 7, 7; (500005), 7, 1, 0; (500670), 2, 1, 0; (501044), 5, 1, 0; (501074), 8, 4, 10; (501265), 7, 3, 24; (501498), 2, 1, 0; (501651), 2, 1, 0; (501987), 4, 1, 0; (502584), 4, 3, 22; (503495), 4, 2, 4; (504218), 8, 3, 4; (505543), 2, 1, 0; (505612), 23, 2, 1; (507809), 2, 1, 0; (509568), 5, 2, 1; (510156), 5, 2, 1; (510293), 4, 2, 3; (511239), 3, 1, 0; (513254), 11, 2, 42; (513355), 12, 2, 1; (513476), 3, 1, 0; (513821), 3, 1, 0; (514480), 2, 1, 0; (515327), 15, 3, 1466; (516269), 2, 1, 0; (518479), 3, 1, 0; *[14272, 1591, 0∗, 2005/08/27–2013/03/30]*

585 Kyiv comet station

A. Baransky, Astronomical Observatory of Kyiv University, Observatorna 3, Kyiv, Ukraine [abaransky@ukr.net]

Observers A. Baransky, A. O. Simon, V. G. Godunova, V. V. Vasylenko, A. Simon, V. Vasylenko, V. Dziadyk, A. Slusarenko, B. Buzevskiy, I. O. Izvekova, V. O. Ponomarenko, O. Maznychenko, A. Kasianchuk, O. R. Baransky, V. Ponomarenko, S. Borysenko

Measurers A. O. Simon, V. Smolynec, A. Baransky, K. Zaritskiy, O. Bakaieva, A. Kasyanchuk, D. Bondar, V. Morgun, V. Tochonyy, V. Radomskiy, A. Simon

0.7-m $f/4$ reflector + CCD

UCAC-4, Gaia-DR1

2014 WB_{373}, 2, 1, 0; 2015 SW_6, 3, 1, 0; 2017 HN_{15}, 4, 1, 0; 2018 LG_1, 5, 1, 0; 2018 QU_1, 7, 1, 0; 2018 RB, 4, 1, 0; 2018 RD_5, 13, 1, 0; 2018 RP_8, 6, 1, 0; 2018 RU_8, 5, 1, 0; 2018 SD_1, 5, 1, 0; (1414), 3, 1, 0; (3752), 2, 1, 0; (6819), 4, 2, 1; (6928), 19, 1, 0; (14451), 45, 1, 0; (16646), 4, 1, 0; (38677), 22, 1, 0; (43774), 34, 2, 2; (47153), 10, 1, 0; (48243), 4, 1, 0; (61741), 15, 1, 0; (72062), 11, 1, 0; (77932), 5, 1, 0; (78811), 2, 1, 0; (81032), 9, 2, 1; (86759), 10, 1, 0; (89602), 12, 1, 0; (94390), 15, 1, 0; (110425), 7, 1, 0; (132590), 9, 1, 0; (134812), 8, 1, 0; (140596), 8, 1, 0; (165411), 4, 2, 1; (179161), 3, 1, 0; (190155), 4, 1, 0; (199124), 2, 1, 0; (201196), 6, 1, 0; (253963), 2, 1, 0; (283514), 3, 1, 0; (306327), 3, 1, 0; (375059), 2, 1, 0; *[341, 41, 0∗, 2018/04/04–2018/09/19]*

587 Sormano
P. Sicoli, Viale Montegrappa 6, I-23900 Lecco, Italy [obs.sormano@alice.it]
Observers A. Fumagalli, F. Manca, A. Testa, P. Sicoli, I. Proserpio, E. Valli, E. Colzani, G. Ventre
0.5-m f/6.8 reflector + CCD
Gaia-DR1, Gaia-DR2, NOMAD

1998 SD_9, 3, 1, 0; 2006 QM_{33}, 3, 1, 0; 2007 RZ_8, 3, 1, 0; 2018 LQ_2, 2, 1, 0; 2018 LR_2, 3, 1, 0; 2018 LS_2, 3, 1, 0; 2018 LU_2, 3, 1, 0; 2018 LE_3, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LG_5, 4, 1, 0; 2018 LO_5, 3, 1, 0; 2018 NQ, 4, 1, 0; 2018 NR, 3, 1, 0; 2018 ND_2, 3, 1, 0; 2018 OK, 2, 1, 0; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 QW_1, 3, 1, 0; 2018 RC, 7, 2, 4; 2018 RM, 3, 1, 0; 2018 RU_3, 3, 1, 0; 2018 RY_3, 2, 1, 0; 2018 RZ_3, 2, 1, 0; (26046), 3, 1, 0; (32090), 3, 1, 0; (78756), 2, 1, 0; (92484), 2, 1, 0; (116116), 2, 1, 0; (125760), 2, 1, 0; (142977), 3, 1, 0; (155488), 3, 1, 0; (179290), 3, 1, 0; (200590), 2, 1, 0; (367578), 2, 1, 0; (416869), 2, 1, 0; (512211), 2, 1, 0; *[105, 37, 0∗, 2018/06/09–2018/09/10]*

595 Farra d'Isonzo
E. Pettarin, CCAF, Strada Colombara 11, I-34072 Farra d'Isonzo (GO), Italy [info@ccaf.it]
Observers L. Bittesini, U. Montanar, E. Pettarin, F. Piani, F. Fabris, G. Ierman, A. Brešan
0.61-m f/4.0 reflector + CCD, 0.40-m f/4.5 reflector + CCD
Gaia-DR2, URAT-1, PPMXL

2007 RZ_8, 3, 1, 0; 2015 DP_{155}, 3, 1, 0; 2015 FP_{118}, 4, 1, 0; 2017 BE_{44}, 2, 1, 0; 2018 EJ_4, 4, 1, 0; 2018 LB, 3, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LD_3, 2, 1, 0; 2018 LX_5, 2, 1, 0; 2018 LT_6, 2, 1, 0; 2018 MK, 2, 1, 0; 2018 MY_6, 4, 1, 0; 2018 MB_7, 2, 1, 0; 2018 MG_7, 4, 1, 0; 2018 MM_8, 2, 1, 0; 2018 NV_2, 3, 1, 0; 2018 NU_3, 3, 1, 0; 2018 NG_4, 2, 1, 0; 2018 OB, 2, 1, 0; 2018 OF, 2, 1, 0; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 OW, 2, 1, 0; 2018 QS, 2, 1, 0; 2018 QW, 2, 1, 0; 2018 QY, 2, 1, 0; 2018 QA_1, 4, 1, 0; 2018 QF_1, 5, 2, 1; 2018 QG_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 QV_1, 3, 1, 0; 2018 QW_1, 3, 1, 0; 2018 RA, 2, 1, 0; 2018 RB, 3, 1, 0; 2018 RC, 3, 1, 0; 2018 RL, 3, 1, 0; 2018 RB_2, 2, 1, 0; 2018 RK_2, 2, 1, 0; 2018 RN_2, 2, 1, 0; 2018 RO_2, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RT_2, 2, 1, 0; 2018 RC_3, 2, 1, 0; 2018 RF_3, 3, 1, 0; 2018 RG_3, 3, 1, 0; 2018 RH_3, 3, 1, 0; 2018 RY_3, 3, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RC_4, 2, 1, 0; 2018 RD_5, 4, 1, 0; 2018 RO_5, 2, 1, 0; 2018 RT_5, 4, 1, 0; 2018 RB_6, 2, 1, 0; 2018 RF_8, 3, 1, 0; 2018 RP_8, 3, 1, 0; 2018 RK_{16} ∗, 6, 2, 1; 2018 RL_{16} ∗, 6, 2, 1; 2018 RM_{16} ∗, 6, 2, 1; 2018 RN_{16} ∗, 7, 2, 1; 2018 RO_{16} ∗, 6, 2, 1; 2018 RP_{16} ∗, 6, 2, 1; 2018 RE_{17} ∗, 7, 2, 1; 2018 SB, 3, 1, 0; 2018 SC, 4, 1, 0; 2018 SC_1, 3, 1, 0; 2018 SD_1, 4, 1, 0; (467309), 4, 1, 0; *[213, 67, 7∗, 2018/06/01–2018/09/18]*

599 Campo Imperatore–CINEOS
A. Carusi, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [cineos@ias.rm.cnr.it]
Observers A. Boattini, N. Napoleone, L. M. Laudi, R. Leoni, A. Di Paola, A. Giunta, V. Casula, D. Perna
0.60-m f/3 Schmidt + CCD
USNO-A2.0

2003 QO_{120}, 2, 1, 0; 2012 UC_{185}, 4, 1, 0; 2014 OA_{334}, 3, 1, 0; 2015 FY_{414}, 4, 1, 0; 2016 GM_{137}, 3, 1, 0; 2017 ON_{56}, 3, 1, 0; 2018 PS_{11}, 4, 1, 0; *[23, 7, 0∗, 2002/08/05–2005/04/30]*

608 Haleakala-NEAT/MSSS
R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
Observers R. Bambery, E. F. Helin, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten
Measurers E. Colombini, M. Kusiak, M. Żołnowski
1.2-m Schmidt + CCD
PPMXL, USNO-B1.0

2000 SD_{377} ∗, 5, 2, 5; 2002 PP_{203} ∗, 6, 2, 7; 2002 PQ_{203} ∗, 12, 4, 49; 2002 PR_{203} ∗, 13, 5, 35; 2002 PS_{203} ∗, 6, 2, 49; 2002 QC_{158}, 5, 2, 5; 2002 QF_{158}, 8, 3, 15; 2002 QK_{158}, 6, 2, 8; 2002 RG_{297}, 5, 2, 13; 2002 RJ_{297} ∗, 11, 4, 20; 2002 RK_{297} ∗, 6, 2, 13; 2002 RL_{297} ∗, 6, 2, 13; 2002 RM_{297}, 3, 1, 0; 2002 VW_{149}, 3, 1, 0; 2003 ST_{435}, 3, 1, 0; 2005 SP_{294}, 3, 1, 0; 2005 TZ_{199}, 3, 1, 0; 2006 JH_{82}, 3, 1, 0; 2007 EQ_{226}, 3, 1, 0; 2007 EA_{227}, 3, 1, 0; 2007 HA_{100}, 3, 1, 0; 2007 HJ_{100}, 3, 1, 0; 2007 RN_{329}, 2, 1, 0; 2008 CT_{218}, 3, 1, 0; 2010 CQ_{198}, 3, 1, 0; 2010 KF_{19}, 9, 3, 10; 2012 DN_{56}, 3, 1, 0; 2013 FG_{30}, 3, 1, 0; 2013 PU_{10}, 2, 1, 0; 2014 MK_{53}, 3, 1, 0; 2015 FY_{414}, 5, 2, 16; 2015 HM_{115}, 3, 1, 0; 2016 EO_{249}, 3, 1, 0; 2017 YV_{15}, 2, 1, 0; 2018 CS_7, 3, 1, 0; 2018 OE, 3, 1, 0; 2018 RA_{18}, 3, 1, 0; (27532), 6, 2, 484; (84376), 2, 1, 0; (144411), 3, 1, 0; (144671), 3, 1, 0; (154278), 6, 2, 30; (154302), 2, 1, 0; (154330), 2, 1, 0; (154656), 3, 1, 0; (154658), 6, 2, 1; *[202, 46, 8∗, 1997/10/10–2005/08/03]*

619 Sabadell
F. Casarramona, P.O. Box 50, E-8200 Sabadell (BCN), Spain [astrosab@redestb.es]
Observers C. Perello, A. Selva
0.50-m f/4 Newtonian reflector + CCD
UCAC-4, Gaia-DR2

(238), 2, 1, 0; (263), 2, 1, 0; (482), 2, 1, 0; (733), 2, 1, 0; (819), 2, 1, 0; (5010), 2, 1, 0; (44556), 2, 1, 0; (68347), 4, 1, 0; *[18, 8, 0∗, 2018/05/30–2018/08/22]*

621 Bergisch Gladbach
W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]
0.60-m f/5.2 reflector + CCD
URAT-1

1996 EN_{16}, 3, 1, 0; 2005 EM_{334}, 4, 1, 0; 2006 OH_{38}, 3, 1, 0; 2006 WD_{209}, 3, 1, 0; 2007 CU_{80}, 6, 2, 1; 2007 RT_{133}, 5, 1, 0; 2007 TQ_{221}, 3, 1, 0; 2007 TH_{456}, 4, 1, 0; 2007 TU_{457}, 3, 1, 0; 2007 XR_{60}, 3, 1, 0; 2008 BG_{55}, 3, 1, 0; 2009 YY_6, 8, 2, 1; 2010 PZ_5, 3, 1, 0; 2010 VT_{182}, 6, 1, 0; 2011 VX_{24}, 3, 1, 0; 2012 BL_{133}, 3, 1, 0; 2012 QC_{54}, 3, 1, 0; 2012 TY_{330}, 3, 1, 0; 2013 LD_{36}, 3, 1, 0; 2013 TT_{170}, 3, 1, 0; 2013 VZ_{30}, 4, 1, 0; 2014 GX_{64}, 3, 1, 0; 2014 JM_{92}, 3, 1, 0; 2014 MD_{78}, 3, 1, 0; 2014 QP_{486}, 9, 2, 1; 2014 QF_{495}, 3, 1, 0; 2014 SN_{179}, 3, 1, 0; 2015 AO_{116}, 5, 1, 0; 2015 XL_{396}, 3, 1, 0; 2016 AV_{229}, 4, 1, 0; 2016 BT_{53}, 3, 1, 0; 2016 BR_{60}, 3, 1, 0; 2017 DJ_{116}, 5, 1, 0; 2017 KH_{24}, 7, 2, 1; 2017 OD_{46}, 3, 1, 0; 2018 KU_3 ∗, 3, 1, 0; 2018 NP, 4, 1, 0; 2018 NG_4, 4, 1, 0; 2018 NB_5 ∗, 6, 2, 1; 2018 NC_5 ∗, 6, 2, 1; 2018 RZ_{14}, 5, 1, 0; 2018 RZ_{16}, 3, 1, 0; (4931), 5, 1, 0; (6711), 3, 1, 0; (7124), 8, 2, 1; (15679), 8, 2, 1; (23135), 7, 2, 1; (32448), 4, 1, 0; (45569), 4, 1, 0; (45735), 8, 2, 1; (60972), 8, 2, 1; (68636), 4, 1, 0; (72748), 5, 1, 0; (78861), 9, 2, 5; (81030), 4, 1, 0; (81412), 5, 1, 0; (86423), 6, 1, 0; (89402), 5, 1, 0; (99924), 7, 2, 1; (108963), 5, 1, 0; (110545), 3, 1, 0; (117185), 5, 1, 0; (129162), 4, 1, 0; (133029), 3, 1, 0; (136235), 5, 1, 0; (138336), 4, 1, 0; (138660), 4, 1, 0; (148651), 5, 1, 0; (150507), 3, 1, 0; (166654), 4, 1, 0; (166883), 5, 1, 0; (186933), 4, 1, 0; (193896), 5, 1, 0; (194161), 4, 1, 0; (197988), 4, 1, 0; (198634), 5, 1, 0; (204571), 4, 1, 0; (217992), 3, 1, 0; (252408), 6, 2, 1; (252420), 3, 1, 0; (255939), 4, 1, 0; (270611), 5, 1, 0; (270853), 9, 2, 5; (288765), 3, 1, 0; (297836), 4, 1, 0; (325896), 4, 1, 0; (327470), 4, 1, 0; (333219), 3, 1, 0; (348394), 4, 1, 0; (350669), 3, 1, 0; (363218), 4, 1, 0; (366194), 7, 2, 1; (366330), 3, 1, 0; (366593), 3, 1, 0; (372129), 3, 1, 0; (401047), 11, 3, 2; (406705), 5, 1, 0; (416761), 3, 1, 0; (430215), 4, 1, 0; (442601), 3, 1, 0; (457463), 4, 1, 0; (459103), 4, 1, 0; (490597), 8, 2, 1; *[460, 103, 3∗, 2006/12/26–2018/09/17]*

628 Mülheim-Ruhr
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Observers A. Martin, K. Kleemann-Böker
0.35-m f/3.4 reflector + CCD
URAT-1, Gaia-DR2, UCAC-4

2001 HL_{30}, 7, 3, 2; 2001 PN_{16}, 4, 1, 0; 2002 PW, 5, 2, 5; 2004 RW_{327}, 3, 1, 0; 2007 UJ_7, 2, 1, 0; 2009 RO_{47}, 4, 1, 0; 2010 SQ_6, 4, 2, 1; 2010 UD_{96}, 3, 1, 0; 2010 XD_{52}, 4, 1, 0; 2011 GA_{62}, 3, 1, 0; 2011 QS_{11}, 14, 5, 11; 2011 SY_{157}, 4, 1, 0; 2013 WM_{90}, 6, 2, 8; 2014 DA_{103}, 4, 1, 0; 2014 UM_{21}, 9, 3, 26; 2015 WE, 3, 1, 0; 2016 ND_{21}, 4, 1, 0; 2017 HJ_4, 7, 2, 1; (5775), 2, 1, 0; (10956), 3, 1, 0; (19085), 2, 1, 0; (47916), 2, 1, 0; (64232), 4, 1, 0; (68347), 11, 3, 10; (68950), 11, 3, 20; (82882), 3, 1, 0; (130540), 2, 1, 0; (143469), 2, 1, 0; (153211), 2, 1, 0; (165348), 2, 1, 0; (197277), 3, 1, 0; (203245), 2, 1, 0; (258125), 2, 1, 0; (261000), 4, 1, 0; (276776), 3, 1, 0; (332434), 5, 2, 5; (376846), 4, 1, 0; (383774), 3, 1, 0; (395002), 2, 1, 0; (464832), 6, 2, 4; *[170, 40, 0∗, 2016/02/12–2018/09/19]*

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R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]

Observers R. Bambery, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten, E. F. Helin, K. Kuluhiwa

Measurers S. Kürti, E. Colombini, M. Kusiak, M. Żołnowski, R. Matson, H. Bill

1.2-m Oschin Schmidt + CCD

USNO-B1.0, PPMXL, USNO-A2.0

1994 PF_{31}, 6, 2, 26; 1998 RM_{81}, 3, 1, 0; 2001 SX_{356}, 3, 1, 0; 2001 SA_{357}, 6, 2, 1428; 2002 AU_{210}, 3, 1, 0; 2002 MD_{8} *, 14, 5, 69; 2002 NC_{81}, 4, 2, 8; 2002 NH_{83} *, 16, 5, 46; 2002 NJ_{83} *, 18, 6, 71; 2002 NK_{83} *, 15, 5, 54; 2002 NL_{83} *, 24, 8, 86; 2002 NM_{83} *, 18, 6, 71; 2002 NN_{83} *, 17, 6, 54; 2002 NO_{83} *, 17, 6, 70; 2002 NP_{83} *, 15, 5, 46; 2002 ON_{38} *, 20, 7, 54; 2002 OO_{38} *, 17, 6, 54; 2002 PL_{203} *, 11, 4, 37; 2002 PM_{203} *, 6, 2, 9; 2002 PN_{203} *, 13, 5, 38; 2002 PO_{203} *, 12, 4, 38; 2002 PP_{203}, 7, 2, 20; 2002 PQ_{203}, 6, 2, 28; 2002 PS_{203}, 6, 2, 28; 2002 PT_{203} *, 11, 4, 28; 2002 PU_{203} *, 12, 4, 38; 2002 PV_{203} *, 16, 5, 35; 2002 QY_{157} *, 12, 4, 49; 2002 QZ_{157} *, 13, 4, 28; 2002 QA_{158} *, 14, 4, 29; 2002 QB_{158} *, 8, 3, 28; 2002 QC_{158} *, 12, 3, 26; 2002 QD_{158} *, 9, 3, 26; 2002 QE_{158} *, 15, 5, 40; 2002 QF_{158} *, 9, 2, 16; 2002 QG_{158} *, 16, 5, 28; 2002 QH_{158} *, 11, 4, 28; 2002 QJ_{158} *, 15, 4, 51; 2002 QK_{158} *, 6, 2, 16; 2002 RB_{297} *, 11, 4, 10; 2002 RC_{297} *, 14, 5, 29; 2002 RD_{297} *, 11, 4, 29; 2002 RE_{297} *, 9, 3, 9; 2002 RF_{297} *, 9, 3, 6; 2002 RG_{297} *, 6, 2, 2; 2002 RH_{297} *, 6, 2, 3; 2002 RM_{297}, 6, 2, 21; 2002 VT_{103}, 3, 1, 0; 2002 VW_{149}, 6, 2, 17; 2003 EX_{63}, 3, 1, 0; 2003 OS_{34} *, 9, 3, 1120; 2003 OT_{34} *, 6, 2, 29; 2003 QK_{120} *, 3, 1, 0; 2003 QL_{120} *, 3, 1, 0; 2003 QM_{120} *, 3, 1, 0; 2003 QN_{120} *, 3, 1, 0; 2003 QO_{120} *, 3, 1, 0; 2003 QP_{120} *, 3, 1, 0; 2003 QQ_{120} *, 3, 1, 0; 2003 QR_{120} *, 3, 1, 0; 2003 QS_{120} *, 6, 2, 21; 2003 QT_{120} *, 3, 1, 0; 2003 SH_{435} *, 6, 1, 0; 2003 SJ_{435} *, 3, 1, 0; 2003 SK_{435} *, 3, 1, 0; 2003 SL_{435} *, 3, 1, 0; 2003 SM_{435} *, 3, 1, 0; 2003 SN_{435} *, 3, 1, 0; 2003 SO_{435} *, 3, 1, 0; 2003 SP_{435} *, 3, 1, 0; 2003 SQ_{435} *, 3, 1, 0; 2003 SS_{435} *, 6, 2, 28; 2003 ST_{435} *, 3, 1, 0; 2003 SU_{435} *, 3, 1, 0; 2003 SV_{435}, 3, 1, 0; 2003 SA_{436}, 3, 1, 0; 2003 UG_{419} *, 3, 1, 0; 2003 UH_{419} *, 3, 1, 0; 2003 UK_{419} *, 3, 1, 0; 2003 WW_{195}, 3, 1, 0; 2003 YB_{183}, 3, 1, 0; 2004 BC_{164} *, 3, 1, 0; 2004 BD_{164} *, 3, 1, 0; 2004 BE_{164} *, 3, 1, 0; 2004 CC_{131} *, 3, 1, 0; 2004 EJ_{116} *, 3, 1, 0; 2004 FZ_{166} *, 3, 1, 0; 2004 GF_{89} *, 3, 1, 0; 2004 NA_{34} *, 6, 2, 27; 2004 PD_{118} *, 3, 1, 0; 2004 QM_{29}, 3, 1, 0; 2005 EQ_{334}, 3, 1, 0; 2005 GE_{230}, 3, 1, 0; 2005 JV_{140}, 3, 1, 0; 2005 LK_{54}, 6, 2, 9; 2005 LL_{54}, 3, 1, 0; 2005 MF_{55}, 3, 1, 0; 2005 MG_{55}, 9, 3, 27; 2005 NT_{126}, 3, 1, 0; 2005 NU_{126}, 3, 1, 0; 2005 NV_{126}, 3, 1, 0; 2005 NW_{126} *, 6, 2, 24; 2005 NX_{126}, 6, 2, 10; 2005 NY_{126}, 6, 2, 35; 2005 NZ_{126}, 6, 2, 21; 2005 OE_{32} *, 9, 3, 30; 2005 OF_{32} *, 6, 2, 25; 2005 QG_{191}, 6, 2, 34; 2005 QH_{191}, 3, 1, 0; 2005 SL_{294}, 3, 1, 0; 2005 UA_{533} *, 6, 2, 557; 2005 UE_{533}, 3, 1, 0; 2005 UJ_{533}, 3, 1, 0; 2005 VJ_{138}, 3, 1, 0; 2005 VP_{138}, 3, 1, 0; 2005 XE_{120}, 3, 1, 0; 2005 YD_{192}, 3, 1, 0; 2006 BO_{286}, 3, 1, 0; 2006 CN_{81}, 3, 1, 0; 2006 JH_{82}, 6, 2, 22; 2006 KF_{146}, 3, 1, 0; 2006 KG_{146}, 6, 1, 0; 2006 MK_{15}, 3, 1, 0; 2006 ML_{15}, 3, 1, 0; 2006 OJ_{38}, 3, 1, 0; 2006 QD_{77}, 3, 1, 0; 2006 QS_{188}, 3, 1, 0; 2006 SH_{422}, 6, 1, 0; 2006 SJ_{422}, 3, 1, 0; 2006 ST_{422}, 3, 1, 0; 2006 SU_{422}, 3, 1, 0; 2006 SM_{423}, 3, 1, 0; 2006 SU_{423}, 6, 2, 10; 2006 SY_{423}, 3, 1, 0; 2006 SS_{424}, 3, 1, 0; 2006 ST_{424}, 3, 1, 0; 2006 TR_{131}, 3, 1, 0; 2006 TU_{131}, 3, 1, 0; 2006 TY_{131}, 3, 1, 0; 2006 TS_{132}, 3, 1, 0; 2006 UB_{364}, 6, 2, 22; 2006 UY_{364}, 3, 1, 0; 2006 WX_{208}, 3, 1, 0; 2006 WN_{209}, 3, 1, 0; 2006 XJ_{74}, 3, 1, 0; 2006 XS_{74}, 3, 1, 0; 2006 YL_{45}, 3, 1, 0; 2006 YZ_{56}, 3, 1, 0; 2007 CP_{80}, 3, 1, 0; 2007 EQ_{226}, 3, 1, 0; 2007 SW_{24}, 3, 1, 0; 2007 UV_{7}, 3, 1, 0; 2007 VU_{339}, 3, 1, 0; 2007 VV_{339}, 3, 1, 0; 2007 VW_{339}, 3, 1, 0; 2007 VX_{339}, 3, 1, 0; 2007 VE_{342}, 3, 1, 0; 2007 WW_{64}, 3, 1, 0; 2007 WX_{64}, 3, 1, 0; 2007 WY_{64}, 3, 1, 0; 2007 YU_{75}, 3, 1, 0; 2008 BX_{54}, 3, 1, 0; 2008 BA_{55}, 6, 2, 11; 2008 CA_{219}, 3, 1, 0; 2008 CO_{219}, 3, 1, 0; 2008 GH_{149}, 3, 1, 0; 2008 GL_{149}, 3, 1, 0; 2008 JE_{6}, 2, 1, 0; 2008 RC_{149}, 3, 1, 0; 2008 SS_{313}, 3, 1, 0; 2008 TK_{193}, 3, 1, 0; 2008 TO_{193}, 3, 1, 0; 2008 US_{375}, 3, 1, 0; 2009 EP_{32}, 3, 1, 0; 2009 OE_{26}, 3, 1, 0; 2010 AT_{91}, 3, 1, 0; 2010 BP_{81}, 6, 2, 6; 2010 CQ_{198}, 3, 1, 0; 2010 CG_{237}, 3, 1, 0; 2010 CL_{238}, 3, 1, 0; 2010 DU_{62}, 6, 2, 10; 2010 EZ_{117}, 3, 1, 0; 2010 FO_{69}, 3, 1, 0; 2010 KF_{19}, 6, 2, 1; 2010 LT_{70}, 3, 1, 0; 2010 PZ_{5}, 3, 1, 0; 2010 RR_{157}, 10, 4, 30; 2010 RR_{189}, 3, 1, 0; 2010 RT_{189}, 3, 1, 0; 2010 TX_{80}, 12, 4, 73; 2010 TY_{194}, 3, 1, 0; 2010 TA_{195}, 3, 1, 0; 2010 TN_{195}, 3, 1, 0; 2010 UA_{110}, 3, 1, 0; 2010 UD_{110}, 3, 1, 0; 2010 VA_{100}, 3, 1, 0; 2010 VB_{228}, 3, 1, 0; 2010 WJ_{75}, 3, 1, 0; 2011 AN_{83}, 3, 1, 0; 2011 BP_{49}, 3, 1, 0; 2011 BL_{169}, 3, 1, 0; 2011 BV_{169}, 3, 1, 0; 2011 CP_{121}, 3, 1, 0; 2011 GQ_{90}, 3, 1, 0; 2011 GR_{90}, 3, 1, 0; 2011 KR_{49}, 3, 1, 0; 2011 MO_{11}, 3, 1, 0; 2011 TD_{18}, 3, 1, 0; 2011 UC_{419}, 3, 1, 0; 2011 WY_{158}, 3, 1, 0; 2012 AW_{25}, 3, 1, 0; 2012 CQ_{59}, 3, 1, 0; 2012 DZ_{105}, 3, 1, 0; 2012 GS_{41}, 3, 1, 0; 2012 HM_{87}, 3, 1, 0; 2012 KH_{48}, 3, 1, 0; 2012 KW_{52}, 3, 1, 0; 2012 KX_{52}, 3, 1, 0; 2012 PK_{18}, 3, 1, 0; 2012 RQ_{44}, 6, 2, 29; 2012 TW_{330}, 3, 1, 0; 2012 UX_{183}, 3, 1, 0; 2012 WB_{37}, 3, 1, 0; 2013 BT_{84}, 3, 1, 0; 2013 CX_{228}, 3, 1, 0; 2013 CY_{228}, 3, 1, 0; 2013 LS_{36}, 3, 1, 0; 2013 NK_{33}, 3, 1, 0; 2013 RD_{108}, 6, 1, 0; 2013 RR_{108}, 3, 1, 0; 2013 UP_{22}, 3, 1, 0; 2013 VA_{31}, 3, 1, 0; 2013 WU_{113}, 3, 1, 0; 2013 WY_{113}, 3, 1, 0; 2013 YA_{41}, 6, 2, 9; 2013 YH_{47}, 3, 1, 0; 2014 AP_{60}, 6, 2, 28; 2014 DT_{155}, 3, 1, 0; 2014 EZ_{155}, 15, 5, 29; 2014 EC_{207}, 3, 1, 0; 2014 HL_{81}, 3, 1, 0; 2014 MU_{16}, 3, 1, 0; 2014 MC_{32}, 3, 1, 0; 2014 MM_{78}, 3, 1, 0; 2014 MS_{78}, 3, 1, 0; 2014 OM_{241}, 3, 1, 0; 2014 OA_{389}, 3, 1, 0; 2014 PJ_{30}, 3, 1, 0; 2014 QS_{321}, 3, 1, 0; 2014 QT_{329}, 3, 1, 0; 2014 QP_{486}, 3, 1, 0; 2014 QW_{486}, 3, 1, 0; 2014 QF_{492}, 3, 1, 0; 2014 RL_{16}, 6, 2, 25; 2014 RV_{37}, 3, 1, 0; 2014 RC_{39}, 3, 1, 0; 2014 RZ_{69}, 6, 1, 0; 2014 SD_{16}, 3, 1, 0; 2014 SD_{149}, 3, 1, 0; 2014 SF_{208}, 3, 1, 0; 2014 SA_{266}, 3, 1, 0; 2014 SJ_{293}, 3, 1, 0; 2014 SC_{309}, 3, 1, 0; 2014 SC_{338}, 6, 2, 1381; 2014 TR_{53}, 3, 1, 0; 2014 TJ_{95}, 3, 1, 0; 2014 UG_{9}, 3, 1, 0; 2014 UJ_{46}, 3, 1, 0; 2014 UW_{183}, 3, 1, 0; 2014 VB_{20}, 3, 1, 0; 2014 WW_{165}, 3, 1, 0; 2014 WJ_{430}, 3, 1, 0; 2014 YX_{63}, 6, 1, 0; 2014 YY_{63}, 3, 1, 0; 2014 YK_{64}, 3, 1, 0; 2015 AW_{247}, 3, 1, 0; 2015 BU_{213}, 10, 4, 45; 2015 BH_{565}, 3, 1, 0; 2015 BV_{565}, 3, 1, 0; 2015 CK_{41}, 3, 1, 0; 2015 DM_{66}, 3, 1, 0; 2015 DF_{250}, 3, 1, 0; 2015 DG_{250}, 3, 1, 0; 2015 FB_{194}, 3, 1, 0; 2015 KM_{172}, 3, 1, 0; 2015 KZ_{172}, 3, 1, 0; 2015 VL_{63}, 3, 1, 0; 2015 XH_{381}, 3, 1, 0; 2015 XA_{422}, 3, 1, 0; 2016 AS_{205}, 3, 1, 0; 2016 BX, 6, 2, 8; 2016 BZ_{1}, 3, 1, 0; 2016 BR_{60}, 3, 1, 0; 2016 CH_{196}, 3, 1, 0; 2016 EP_{249}, 3, 1, 0; 2016 ER_{249}, 3, 1, 0; 2016 GR_{213}, 3, 1, 0; 2016 GC_{268}, 3, 1, 0; 2016 JK_{32}, 3, 1, 0; 2016 KN_{6}, 3, 1, 0; 2016 KF_{9}, 3, 1, 0; 2016 LY_{64}, 6, 2, 18; 2016 LR_{65}, 3, 1, 0; 2016 NR_{27}, 3, 1, 0; 2016 TH_{100}, 3, 1, 0; 2017 DH_{36}, 3, 1, 0; 2017 DA_{79}, 3, 1, 0; 2017 DM_{93}, 3, 1, 0; 2017 HF_{14}, 3, 1, 0; 2017 OX_{39}, 3, 1, 0; 2017 PV_{23}, 3, 1, 0; 2017 QG_{52}, 3, 1, 0; 2017 RA_{42}, 15, 4, 28; 2017 RL_{103}, 3, 1, 0; 2017 SP_{130}, 3, 1, 0; 2017 SK_{132}, 3, 1, 0; 2017 UX_{43}, 3, 1, 0; 2017 VV_{15}, 3, 1, 0; 2018 CS_{7}, 6, 2, 1; 2018 OW, 3, 1, 0; 2018 PE_{8}, 6, 2, 62; 2018 PH_{18}, 12, 3, 30; 2018 PK_{23}, 3, 1, 0; 2018 QD_{6}, 3, 1, 0; 2018 QJ_{6}, 3, 1, 0; 2018 QZ_{6}, 3, 1, 0; 2018 RP_{6}, 3, 1, 0; 2018 RF_{11}, 3, 1, 0; 2018 RN_{11}, 9, 2, 22; 2018 RW_{13}, 3, 1, 0; 2018 RK_{16}, 9, 3, 27; 2018 RV_{17}, 3, 1, 0; 2018 RY_{17}, 3, 1, 0; 2018 RA_{18}, 3, 1, 0; 2018 RL_{22}, 3, 1, 0; (27532), 6, 2, 8; (29323), 2, 1, 0; (316842), 8, 3, 33; (509995), 3, 1, 0; (514360), 6, 2, 9; (517529), 3, 1, 0; (522278), 20, 7, 71; *[1630, 342, 77*, 2001/06/23–2007/03/10]*

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Measurers R. Aretxaga Burgos, J. M. Arevalo, F. Arias Arias, F. Ayala Zurbano, J. M. Barandica Rodriguez, M. Camara, B. Carry, E. Castiñeyra Amo, A. De Pieri, A. Diez Penas, M. Á. Fernandez Muros, F. García Marin, P. Gimenez, C. Godina Miñana, E. Gomez Fernandez, P. L. Gonzalez, L. Hudin, A. Manchado, D. Mari Barcelo, V. Martins De Morais, G. Molled, A. F. Montoya H., J. L. Moreno Diaz, V. J. Ospina Moreno, H. Pachon Sanche, C. Pourchet, C. Rodrigo, J. D. Rodríguez Tabares, C. Sala Puig, E. Sanch, E. Solano, S. Sopelana, J. Vazquez, T. Vazquez Chiscano, J. R. Vidal Blanco, C. Vuillemot, P. Aussems, F. J. Bazaga Morillas, D. Cabezas Jimeno, J. Esteban Mateos, M. Fernandez Muros, V. Garcia, M. Martin Martin, H. Pachon Sanchez, R. Reszelewski, C. Rey Rodriguez, E. Sancha, J. Segura Albarracin, C. Cornen, F. Jimenez-esteban, M. Montero Mato, F. Tevar Fernandez, J. C. Cabrera Garcia, J. P. De Gracia Rios, C. Frade Jimenez, V. Hernandez Rodriguez, R. Porto Dacal, R. Rodriguez Martinez, J. Aguirre Amaya, E. Alemany De La Vega, J. Alonso Santiago, D. Antoranz Fernandez, O. Astronomico Monfrague, D. Baines, O. Bautista, D. A. Calvo Calvo, J. M. Calzada Dominguez, C. Cervera Campos, G. Cuello, J. M. De La Osa Lopez, E. De La Torre, V. De Paula Vila, S. Deen, J. Delgado Casal, N. Delmotte, A. Deza Portero, J. L. Diaz Cecilia, M. Diaz Rodriguez, L. Duran Pich, C. A. Flamini, F. J. Gallego Rivera, E. Garcia Del Moral, P. M. Garcia Lorenzo, J. L. Garro Galarreta, S. J. Gonzalez Dominguez, A. Gonzalez Velasco, R. Guarner Navarro, A. Herrera Lopez, C. Hurtado Mendoza, L. Iglesias Jimenez, J. A. Izquierdo, J. Lanza Garcia, A. Lasala Garcia, V. Linares Pagan, V. Mansanet, E. Marco Soler, A. Martin Soria, D. Mavrich, P. Mora, M. Mora Rosa, J. M. Mozaz Pascual, F. D. Muñoz Barros, R. Nicollerat, F. Perez Toledo, R. Quejigo Gutierrez, F. J. Rivera Valentin, G. D. Rodríguez, I. Rodriguez Jauregui, D. Rodríguez Perez, O. Santanatalia, J. P. Serrano Guinot, T. Tobal, E. Tortajada Perez, A. Uriarte, M. Valdivielso Gutierrez, P. Vazquez Lucena, M. Vazquez Muñoz, J. Vega Granda, J. Vidal Sainz, S. Kürti, O. A. Monfrague, I. Bengoa Legarra, A. Bernal Gutierrez, D. C. Martinez, F. Cabadas Martin, A. Deza Porte, A. Quijano Vodniza, G. Salazar, D. Sanchez Losada, M. Vazquez Munoz, C. Navarro, J. L. Santos Gomez, F. Molina, A. Pasqua

2.50-m reflector + CCD

SDSS-DR8, UCAC-4

1996 VB_{32}, 2, 1, 0; 1998 RN_{81}, 2, 1, 0; 1999 FU_{81}, 12, 4, 2509; 1999 VL_{76}, 3, 1, 0; 2000 CV_{150}, 6, 3, 1387; 2000 QA_{224}, 7, 1, 0; 2000 SE_{377}, 2, 1, 0; 2000 SF_{377}, 2, 1, 0; 2000 TE_{43}, 3, 1, 0; 2001 RA_{42}, 3, 1, 0; 2001 SU_{193}, 1, 1, 0; 2001 SV_{263}, 5, 1, 0; 2001 TO_{193}, 4, 1, 0; 2001 UT_4, 3, 1, 0; 2001 YZ, 6, 1, 0; 2002 AT_{31}, 7, 2, 20; 2002 RV, 2, 1, 0; 2002 SV_{28}, 4, 1, 0; 2002 TX_{158}, 3, 1, 0; 2003 ED_{17}, 2, 1, 0; 2003 QL_{120}, 2, 1, 0; 2003 QO_{120}, 2, 1, 0; 2003 SO_{16}, 6, 2, 1; 2003 SK_{435}, 2, 1, 0; 2003 SP_{435}, 2, 1, 0; 2003 SU_{435}, 2, 1, 0; 2003 SW_{435}, 2, 1, 0; 2003 WN_{156}, 5, 1, 0; 2004 AW_2, 2, 1, 0; 2004 BC_{164}, 2, 1, 0; 2004 BD_{164}, 4, 2, 617; 2004 BE_{164}, 2, 1, 0; 2004 NZ_{33}, 2, 1, 0; 2004 TO_{18}, 4, 1, 0; 2004 TH_{100}, 15, 5, 42; 2005 AE_{83}, 2, 1, 0; 2005 NT_{46}, 3, 1, 0; 2005 NP_{82}, 3, 1, 0; 2005 QK_{160}, 3, 1, 0; 2005 TP_{199}, 2, 1, 0; 2005 UP_{533}, 4, 2, 556; 2005 VW_{125}, 6, 2, 2; 2005 VD_{138}, 2, 1, 0; 2005 WD_2, 3, 1, 0; 2005 WM_{52}, 4, 1, 0; 2005 XU_{42}, 3, 1, 0; 2005 XC_{120}, 2, 1, 0; 2005 XE_{120}, 2, 1, 0; 2005 YT_{293}, 2, 1, 0; 2006 BB, 5, 1, 0; 2006 CP, 3, 1, 0; 2006 DR_{175}, 2, 1, 0; 2006 FH_{56}, 2, 1, 0; 2006 GU_{55}, 2, 1, 0; 2006 HM_{26}, 2, 1, 0; 2006 JN_{82}, 2, 1, 0; 2006 SC_7, 4, 1, 0; 2006 SJ_{30}, 2, 1, 0; 2006 SC_{424}, 2, 1, 0; 2006 TK_{133}, 2, 1, 0; 2006 UB_4, 2, 1, 0; 2006 UK_{217}, 3, 1, 0; 2006 VA_{175}, 2, 1, 0; 2006 WO_{208}, 2, 1, 0; 2006 WV_{208}, 2, 1, 0; 2007 CJ_{80}, 2, 1, 0; 2007 GW_{46}, 2, 1, 0; 2007 GU_{50}, 2, 1, 0; 2007 HS_{99}, 2, 1, 0; 2007 HZ_{99}, 2, 1, 0; 2007 OL_{11}, 2, 1, 0; 2007 RB_{86}, 2, 1, 0; 2007 RN_{276}, 3, 1, 0; 2007 TP_{456}, 2, 1, 0; 2007 TT_{458}, 2, 1, 0; 2007 UO_{144}, 2, 1, 0; 2007 VP_{320}, 2, 1, 0; 2007 XR_{60}, 4, 1, 0; 2008 AG_{139}, 2, 1, 0; 2008 AM_{139}, 2, 1, 0; 2008 AS_{139}, 2, 1, 0; 2008 AZ_{139}, 2, 1, 0; 2008 CQ_{213}, 2, 1, 0; 2008 EC_8, 2, 1, 0; 2008 GU_{20}, 2, 1, 0; 2008 JE_6, 3, 1, 0; 2008 QZ_9, 4, 1, 0; 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2012 RW_{21}, 2, 1, 0; 2012 TU_1, 6, 2, 10; 2012 WY_{36}, 2, 1, 0; 2013 AP_{98}, 2, 1, 0; 2013 AR_{188}, 2, 1, 0; 2013 AT_{188}, 4, 2, 26; 2013 NP_{33}, 4, 1, 0; 2013 PL_{83}, 2, 1, 0; 2013 QS_6, 2, 1, 0; 2013 QJ_9, 2, 1, 0; 2013 RL_{108}, 2, 1, 0; 2013 SS_{20}, 2, 1, 0; 2013 SD_{102}, 2, 1, 0; 2013 TK_{171}, 2, 1, 0; 2013 TW_{171}, 2, 1, 0; 2013 VF_{24}, 3, 1, 0; 2013 XD_{26}, 6, 2, 1; 2013 YK_{55}, 3, 1, 0; 2013 YH_{155}, 4, 1, 0; 2014 AH_{16}, 3, 1, 0; 2014 AM_{55}, 9, 3, 2; 2014 AN_{55}, 3, 1, 0; 2014 AH_{60}, 2, 1, 0; 2014 AU_{60}, 2, 1, 0; 2014 AA_{61}, 2, 1, 0; 2014 BZ_{57}, 3, 1, 0; 2014 BX_{64}, 12, 4, 1774; 2014 CD_{14}, 7, 2, 1; 2014 CN_{23}, 9, 3, 2187; 2014 CO_{23}, 6, 2, 107; 2014 CP_{23}, 3, 1, 0; 2014 CQ_{23}, 6, 2, 1404; 2014 DK_7, 3, 1, 0; 2014 DE_{143}, 3, 1, 0; 2014 DF_{143}, 6, 2, 385; 2014 DH_{143}, 7, 3, 1867; 2014 DM_{143}, 3, 1, 0; 2014 DN_{143}, 3, 1, 0; 2014 DO_{143}, 6, 2, 243; 2014 DQ_{143}, 3, 1, 0; 2014 DU_{143}, 3, 1, 0; 2014 DO_{155}, 2, 1, 0; 2014 EJ_6, 2, 1, 0; 2014 EA_{52}, 9, 3, 373; 2014 FB_{62}, 3, 1, 0; 2014 FB_{72}, 2, 1, 0; 2014 FW_{76}, 2, 1, 0; 2014 GA_{65}, 4, 2, 26; 2014 HX_{32}, 3, 1, 0; 2014 JS_{37}, 2, 1, 0; 2014 JH_{78}, 2, 1, 0; 2014 OH_7, 2, 1, 0; 2014 OX_{44}, 2, 1, 0; 2014 OT_{386}, 2, 1, 0; 2014 OW_{415}, 2, 1, 0; 2014 PK_{79}, 4, 2, 948; 2014 PY_{79}, 2, 1, 0; 2014 PE_{82}, 2, 1, 0; 2014 QH_{141}, 2, 1, 0; 2014 QP_{168}, 2, 1, 0; 2014 QG_{413}, 2, 1, 0; 2014 QE_{427}, 2, 1, 0; 2014 QZ_{438}, 2, 1, 0; 2014 QZ_{475}, 2, 1, 0; 2014 QZ_{476}, 2, 1, 0; 2014 QH_{480}, 2, 1, 0; 2014 QC_{481}, 2, 1, 0; 2014 QC_{483}, 4, 2, 3; 2014 QE_{483}, 2, 1, 0; 2014 QA_{484}, 4, 2, 6; 2014 QE_{485}, 2, 1, 0; 2014 QQ_{486}, 2, 1, 0; 2014 QL_{487}, 2, 1, 0; 2014 RX_{35}, 2, 1, 0; 2014 RO_{38}, 2, 1, 0; 2014 SX_2, 2, 1, 0; 2014 SK_6, 4, 2, 468; 2014 SS_7, 4, 2, 2; 2014 SW_{50}, 4, 2, 6; 2014 ST_{187}, 2, 1, 0; 2014 SJ_{204}, 4, 2, 560; 2014 SD_{205}, 2, 1, 0; 2014 SJ_{293}, 4, 2, 974; 2014 UY_{89}, 2, 1, 0; 2014 WB_{160}, 2, 1, 0; 2014 XH_{44}, 2, 1, 0; 2015 AE_{26}, 3, 1, 0; 2015 BP_8, 2, 1, 0; 2015 BO_{81}, 2, 1, 0; 2015 BA_{266}, 2, 1, 0; 2015 BH_{301}, 3, 1, 0; 2015 BV_{565}, 2, 1, 0; 2015 DJ_{250}, 2, 1, 0; 2015 FT_{404}, 3, 1, 0; 2015 FS_{414}, 2, 1, 0; 2015 HP_9, 5, 2, 323; 2015 KK_{172}, 3, 1, 0; 2015 KP_{172}, 2, 1, 0; 2015 PW_{310}, 4, 2, 55; 2015 RG_{277}, 10, 4, 1834; 2015 RO_{277}, 2, 1, 0; 2015 TV_{386}, 2, 1, 0; 2015 UK_{87}, 3, 1, 0; 2015 UW_{90}, 2, 1, 0; 2015 UX_{90}, 2, 1, 0; 2015 XN_{95}, 2, 1, 0; 2015 XE_{109}, 2, 1, 0; 2015 XH_{381}, 2, 1, 0; 2016 AK_{278}, 2, 1, 0; 2016 BL_{33}, 2, 1, 0; 2016 BW_{105}, 2, 1, 0; 2016 CY_{322}, 2, 1, 0; 2016 CZ_{322}, 4, 2, 24; 2016 CB_{323}, 4, 1, 0; 2016 DG_{29}, 2, 1, 0; 2016 ET_{10}, 2, 1, 0; 2016 GB_{23}, 2, 1, 0; 2016 GF_{239}, 2, 1, 0; 2016 KE_6, 4, 2, 90; 2016 KN_6, 2, 1, 0; 2016 KO_9, 2, 1, 0; 2016 NR_{27}, 2, 1, 0; 2016 NE_{31}, 2, 1, 0; 2016 NL_{90}, 2, 1, 0; 2016 PH_{109}, 6, 2, 1922; 2016 PA_{128}, 2, 1, 0; 2016 QA_{95}, 2, 1, 0; 2016 QF_{95}, 2, 1, 0; 2016 RO_2, 2, 1, 0; 2017 BL_{11}, 6, 2, 37; 2017 DL_{99}, 8, 4, 1330; 2017 FC_{54}, 2, 1, 0; 2017 NV_4, 2, 1, 0; 2017 NJ_5, 2, 1, 0; 2017 OK_{38}, 2, 1, 0; 2017 OS_{39}, 2, 1, 0; 2017 OG_{44}, 2, 1, 0; 2017 OK_{45}, 2, 1, 0; 2017 OD_{46}, 2, 1, 0; 2017 ON_{56}, 2, 1, 0; 2017 PH_{13}, 2, 1, 0; 2017 PT_{19}, 4, 2, 10; 2017 QY_{64}, 2, 1, 0; 2017 RD_{75}, 2, 1, 0; 2017 RZ_{103}, 2, 1, 0; 2017 RL_{107}, 4, 1, 0; 2017 RL_{109}, 2, 1, 0; 2017 SF_{132}, 2, 1, 0; 2017 VX_{10}, 6, 3, 936; 2017 VW_{15}, 2, 1, 0; 2017 VD_{34}, 2, 1, 0; 2017 XK_{14}, 2, 1, 0; 2018 BM, 2, 1, 0; 2018 MD_6, 2, 1, 0; 2018 OE_1, 2, 1, 0; 2018 PQ_{13}, 2, 1, 0; 2018 PZ_{13}, 4, 2, 22; 2018 PA_{24}, 2, 1, 0; 2018 PH_{26}, 2, 1, 0; 2018 QO_5, 2, 1, 0; 2018 RW_9, 2, 1, 0; 2018 RS_{14}, 2, 1, 0; 2018 RZ_{14}, 2, 1, 0; 2018 RV_{18}, 2, 1, 0; 2018 RV_{23}, 2, 1, 0; 2018 RA_{24}, 2, 1, 0; (50), 3, 1, 0; (2886), 3, 1, 0; (13495), 3, 1, 0; (16474), 4, 1, 0; (27317), 3, 1, 0; (28103), 3, 1, 0; (28210), 3, 1, 0; (29678), 3, 1, 0; (34755), 4, 1, 0; (52484), 3, 1, 0; (55675), 3, 1, 0; (58285), 4, 1, 0; (59153), 3, 1, 0; (60976), 3, 1, 0; (63842), 3, 1, 0; (85274), 4, 1, 0; (101952), 3, 1, 0; (103053), 4, 1, 0; (103161), 19, 3, 26; (110757), 3, 1, 0; (114249), 7, 2, 61; (119056), 4, 1, 0; (122021), 3, 1, 0; (122150), 3, 1, 0; (123174), 3, 1, 0; (124367), 3, 1, 0; (125458), 4, 1, 0; (137069), 5, 1, 0; (140035), 3, 1, 0; (141776), 3, 1, 0; (154331), 5, 1, 0; (155370), 6, 2, 998; (156032), 4, 1, 0; (156151), 3, 1, 0; (157441), 3, 1, 0; (157975), 3, 1, 0; (158612), 3, 1, 0; (158853), 5, 1, 0; (159194), 3, 1, 0; (159463), 10, 2, 22; (160085), 5, 1, 0; (160510), 10, 1, 0; (160886), 2, 1, 0; (171671), 5, 1, 0; (181698), 4, 1, 0; (183581), 4, 1, 0; (187746), 4, 1, 0; (188228), 4, 1, 0; (188272), 4, 1, 0; (189015), 3, 1, 0; (193905), 3, 1, 0; (194125), 3, 1, 0; (196299), 8, 2, 1; (197714), 3, 1, 0; (199355), 3, 1, 0; (215250), 8, 1, 0; (232033), 3, 1, 0; (232381), 3, 1, 0; (234249), 3, 1, 0; (234360), 2, 1, 0; (234504), 3, 1, 0; (235152), 3, 1, 0; (236153), 3, 1, 0; 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658 National Research Council of Canada

D. D. Balam, Dominion Astrophysical Observatory, 5071 West Saanich Road, Victoria, BC, Canada [cosmos@uvic.ca] (1)

1.82-m Plaskett telescope + CCD

2MASS

2018 KH_2, 2, 1, 0; 2018 LO_3, 3, 1, 0; 2018 LT_{15}, 3, 1, 0; 2018 MH, 10, 2, 36; 2018 NQ_1, 3, 1, 0; 2018 NE_2, 3, 1, 0; 2018 NP_2, 3, 1, 0; 2018 NZ_2, 3, 1, 0; 2018 NZ_{14}, 8, 2, 6; 2018 PD_8, 4, 1, 0; 2018 PJ_9, 12, 2, 1; 2018 PG_{10}, 4, 1, 0; 2018 PH_{10}, 4, 1, 0; 2018 PV_{10}, 4, 1, 0; 2018 PV_{19}, 3, 1, 0; 2018 PO_{23}, 11, 2, 1; 2018 PA_{24}, 4, 1, 0; 2018 PL_{24}, 5, 1, 0; *[89, 18, 0∗, 2018/06/12–2018/08/18]*

673 Table Mountain Observatory, Wrightwood

W. M. Owen, Jr., Jet Propulsion Laboratory 301-150, 4800 Oak Grove Drive, Pasadena, CA 91109-8099, U.S.A. [wmo@wansor.jpl.nasa.gov] (1)

Observers A. S. Alonzo-Ault, S. J. Toole, W. M. Owen Jr., W. Buehlman, M. Brewer, J. Pittichová

Measurers W. M. Owen Jr., S. J. Toole, A. S. Alonzo-Ault, M. Brewer, H. Rhoades, W. Buehlman, J. Pittichová

0.61-m $f/16$ reflector + CCD, 1.00-m $f/15$ reflector + CCD

UCAC-5, PPMXL

{11} (20433), 3, 1, 0; *[3, 1, 0∗, 2018/08/03]*

{1} (9), 8, 4, 21; (13), 2, 1, 0; (16), 2, 1, 0; (26), 10, 5, 51; (27), 3, 1, 0; (28), 2, 1, 0; (29), 6, 3, 29; (35), 8, 3, 50; (39), 2, 1, 0; (43), 4, 2, 1; (47), 4, 2, 7; (52), 8, 4, 79; (55), 10, 5, 30; (76), 9, 4, 29; (77), 12, 6, 58; (78), 7, 3, 22; (80), 3, 1, 0; (81), 5, 2, 8; (83), 4, 2, 28; (97), 6, 3, 29; (104), 2, 1, 0; (105), 2, 1, 0; (112), 2, 1, 0; (115), 4, 2, 1; (118), 7, 3, 77; (119), 6, 3, 28; (123), 2, 1, 0; (130), 7, 3, 18; (131), 3, 1, 0; (137), 15, 7, 51; (140), 6, 3, 57; (144), 2, 1, 0; (156), 10, 5, 30; (160), 5, 2, 29; (168), 6, 3, 57; (171), 6, 3, 29; (176), 16, 8, 79; (181), 4, 2, 1; (187), 2, 1, 0; (196), 5, 2, 1; (198), 8, 4, 51; (202), 4, 2, 27; (203), 2, 1, 0; (204), 12, 6, 57; (213), 12, 6, 49; (233), 12, 6, 49; (240), 11, 5, 50; (242), 4, 2, 1; (248), 8, 4, 29; (253), 10, 5, 51; (258), 16, 7, 78; (268), 12, 6, 49; (269), 4, 2, 21; (279), 4, 2, 1; (283), 4, 2, 17; (293), 2, 1, 0; (294), 6, 3, 76; (305), 4, 2, 1; (309), 6, 3, 57; (332), 4, 2, 2; (348), 2, 1, 0; (356), 4, 2, 76; (357), 4, 2, 50; (362), 4, 2, 2; (363), 2, 1, 0; (369), 10, 5, 50; (374), 5, 2, 28; (389), 7, 3, 29; (395), 4, 2, 18; (397), 2, 1, 0; (401), 4, 2, 1; (407), 2, 1, 0; (409), 9, 4, 29; (416), 3, 1, 0; (429), 16, 8, 78; (431), 2, 1, 0; (442), 2, 1, 0; (445), 14, 7, 78; (458), 8, 4, 42; (465), 6, 3, 50; (480), 10, 4, 49; (481), 2, 1, 0; (482), 6, 3, 21; (483), 14, 7, 51; (498), 2, 1, 0; (499), 4, 2, 51; (501), 2, 1, 0; (503), 4, 2, 1; (508), 2, 1, 0; (511), 5, 2, 29; (513), 7, 3, 29; (515), 8, 4, 50; (541), 5, 2, 47; (542), 3, 1, 0; (566), 8, 4, 57; (568), 11, 4, 29; (569), 3, 1, 0; (576), 12, 6, 49; (578), 2, 1, 0; (581), 4, 2, 1; (582), 4, 2, 1; (584), 5, 2, 2; (591), 2, 1, 0; (592), 4, 2, 1; (593), 2, 1, 0; (595), 4, 2, 2; (598), 6, 3, 29; (599), 3, 1, 0; (601), 4, 2, 1; (611), 12, 6, 51; (619), 2, 1, 0; (624), 9, 4, 27; (654), 2, 1, 0; (659), 8, 4, 51; (660), 4, 2, 1; (675), 2, 1, 0; (676), 6, 3, 76; (678), 4, 2, 17; (694), 13, 5, 50; (702), 2, 1, 0; (709), 4, 2, 29; (726), 2, 1, 0; (733), 2, 1, 0; (734), 2, 1, 0; (739), 13, 6, 50; (747), 2, 1, 0; (752), 4, 2, 27; (754), 2, 1, 0; (756), 6, 3, 18; (774), 2, 1, 0; (828), 9, 4, 29; (834), 2, 1, 0; (835), 2, 1, 0; (866), 4, 2, 50; (892), 14, 7, 77; (894), 5, 2, 22;

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679 San Pedro Martir

G. Gavazzi, Osservatorio Astronomico di Brera, Via Brera 28, I-20121 Milan, Italy
Observers J. S. Silva, M. Reyes-Ruiz, F. Montalvo
Measurer M. Micheli
2.12-m reflector + CCD
Gaia-DR2

2018 PY_{7}, 2, 1, 0; 2018 PP_{10}, 3, 1, 0; 2018 PJ_{20}, 2, 1, 0; 2018 PG_{21}, 5, 2, 4; 2018 PK_{21}, 6, 1, 0; 2018 PZ_{21}, 5, 2, 3; 2018 PL_{23}, 2, 1, 0; 2018 PQ_{23}, 2, 1, 0; 2018 PU_{23}, 3, 1, 0; 2018 QE, 5, 1, 0; 2018 QT, 5, 1, 0; *[40, 11, 0*, 2018/08/16–2018/08/20]*

683 Goodricke-Pigott Observatory, Tucson

R. A. Tucker, 5500 West Nebraska Street, Tucson, AZ 85746, U.S.A. [gpobs@mindspring.com]
Observer R. A. Tucker
Measurers R. A. Tucker, V. Reddy, J. Kessel
0.35-m $f/11$ Schmidt-Cassegrain + CCD, 0.35-m $f/5$ reflector + CCD
GSC-ACT

2007 RL_{329}, 3, 1, 0; *[3, 1, 0*, 2007/09/03]*

688 Lowell Observatory, Anderson Mesa Station

L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu] (5)
D. Avner, no details supplied (15)

{15} 2015 CZ_{13}, 5, 1, 0; 2015 CC_{14}, 5, 1, 0; *[10, 2, 0*, 2015/02/15–2015/02/16]*

{5} 2003 QC_{112}, 2, 1, 0; 2004 DM_{64}, 2, 1, 0; 2006 TD_{133}, 2, 1, 0; 2009 SN_{372}, 2, 1, 0; 2009 YG_{19}, 2, 1, 0; 2015 KK_{172}, 2, 1, 0; 2016 PX_{3}, 3, 1, 0; (15788), 2, 1, 0; (63252), 2, 1, 0; (79983), 2, 1, 0; *[21, 10, 0*, 2000/05/01–2012/03/29]*

691 Steward Observatory, Kitt Peak

R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu]
Observers R. S. McMillan, T. H. Bressi, A. F. Tubbiolo, M. J. Brucker, M. T. Read, R. A. Mastaler, J. V. Scotti
0.9-m $f/3$ reflector + CCD
USNO-B1.0

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(502902), 3, 1, 0; (503685), 3, 1, 0; (503829), 3, 1, 0; (505777), 3, 1, 0; (508617), 3, 1, 0; (508848), 3, 1, 0; (508871), 3, 1, 0; (512257), 3, 1, 0; (512987), 3, 1, 0; (513358), 3, 1, 0; (513980), 3, 1, 0; (514652), 6, 2, 4; (515010), 3, 1, 0; (515167), 6, 2, 1; (516529), 3, 1, 0; (516560), 3, 1, 0; (516809), 3, 1, 0; (516930), 3, 1, 0; (517097), 3, 1, 0; (517147), 3, 1, 0; (517169), 3, 1, 0; (517170), 3, 1, 0; (517196), 3, 1, 0; (517322), 3, 1, 0; (517529), 6, 2, 3962; (517683), 3, 1, 0; (517732), 3, 1, 0; (517754), 3, 1, 0; (517829), 6, 2, 2; (518007), 3, 1, 0; (518016), 9, 3, 2221; (518335), 3, 1, 0; (518349), 3, 1, 0; (518424), 3, 1, 0; (518451), 3, 1, 0; (518496), 3, 1, 0; (518549), 3, 1, 0; (518558), 3, 1, 0; (518626), 3, 1, 0; (518632), 3, 1, 0; (518775), 3, 1, 0; (518826), 3, 1, 0; (518864), 3, 1, 0; (518932), 3, 1, 0; (518990), 3, 1, 0; (519038), 3, 1, 0; (519425), 6, 2, 1; (519504), 3, 1, 0; (519708), 3, 1, 0; (519729), 3, 1, 0; (519751), 3, 1, 0; (519861), 6, 2, 3; (520297), 3, 1, 0; (520315), 3, 1, 0; (520319), 3, 1, 0; (520436), 3, 1, 0; (520493), 3, 1, 0; (520527), 3, 1, 0; (520643), 3, 1, 0; (520711), 6, 2, 1; (520722), 3, 1, 0; (520728), 3, 1, 0; (520777), 3, 1, 0; (520902), 3, 1, 0; (521010), 3, 1, 0; (521017), 3, 1, 0; (521585), 3, 1, 0; (521663), 3, 1, 0; (521671), 3, 1, 0; (522104), 3, 1, 0; (522113), 3, 1, 0; (522139), 3, 1, 0; (522255), 3, 1, 0; (522290), 3, 1, 0; (522406), 2, 1, 0; (522496), 3, 1, 0; (523150), 6, 2, 3; (523153), 6, 2, 3; (523227), 3, 1, 0; (523241), 3, 1, 0; (523304), 3, 1, 0; (523310), 3, 1, 0; (523319), 3, 1, 0; (523346), 3, 1, 0; (523355), 3, 1, 0; (523396), 3, 1, 0; (523397), 3, 1, 0; (523402), 3, 1, 0; (523407), 3, 1, 0; (523562), 3, 1, 0; *[45229, 11720, 412∗, 1991/10/07–2018/09/18]*

695 Kitt Peak

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Observers J. V. Scotti, A. F. Tubbiolo, R. A. Mastaler

2.3-m $f/9$ reflector + CCD
USNO-B1.0

{21} 2015 BV_{17}, 3, 1, 0; *[3, 1, 0*, 2005/06/06]*

{23} 1998 KS_{65}, 1, 1, 0; 2004 DM_{64}, 2, 1, 0; 2005 JG_{187}, 4, 1, 0; 2005 TU_{198}, 2, 1, 0; 2006 CM_{81}, 3, 1, 0; 2006 DS_{219}, 3, 1, 0; 2006 HN_{122}, 2, 1, 0; 2006 QG_{181}, 3, 1, 0; 2006 SA_{424}, 2, 1, 0; 2007 AG_{32}, 2, 1, 0; 2007 BP_{103}, 2, 1, 0; 2007 CN_{80}, 2, 1, 0; 2007 DF_{119}, 2, 1, 0; 2010 SB_{28}, 2, 1, 0; 2013 EF_{158}, 2, 1, 0; 2013 JS_{59}, 2, 1, 0; 2016 CH_{241}, 2, 1, 0; 2017 UG_{27}, 2, 1, 0; 2018 RN_{17}, 2, 1, 0; *[42, 19, 0*, 2004/10/10–2013/10/07]*

{1} 1995 SW_{81}, 2, 1, 0; 1999 TX_{66}, 2, 1, 0; 2003 OS_{34}, 2, 1, 0; 2004 TW_{371}, 2, 1, 0; 2004 VT_{131} *, 2, 1, 0; 2005 SW_{294}, 3, 1, 0; 2005 UM_{520}, 2, 1, 0; 2005 UN_{533}, 2, 1, 0; 2005 VF_{138}, 3, 1, 0; 2006 SC_{423}, 3, 1, 0; 2006 TY_{131}, 2, 1, 0; 2007 FO_{52}, 3, 1, 0; 2007 RO_{329}, 2, 1, 0; 2007 RM_{330}, 2, 1, 0; 2007 TF_{168}, 2, 1, 0; 2007 TO_{456}, 2, 1, 0; 2008 CZ_{13}, 2, 1, 0; 2008 FX_{138}, 3, 1, 0; 2008 UP_{72}, 2, 1, 0; 2009 SU_{208}, 3, 1, 0; 2009 WP_{179}, 2, 1, 0; 2010 CH_{252}, 3, 1, 0; 2010 RS_{189}, 2, 1, 0; 2010 SX_{44}, 2, 1, 0; 2010 TR_{152}, 2, 1, 0; 2010 XX_{93}, 2, 1, 0; 2011 BU_{169}, 3, 1, 0; 2011 EU_{90}, 3, 1, 0; 2011 FM_{159}, 3, 1, 0; 2011 HL_{104}, 2, 1, 0; 2011 SS_{281}, 2, 1, 0; 2011 UR_{418}, 2, 1, 0; 2012 DC_{106}, 2, 1, 0; 2012 SS_{71}, 2, 1, 0; 2013 BX_{84}, 2, 1, 0; 2013 EL_{61}, 4, 2, 41; 2013 TP_{171}, 2, 1, 0; 2013 VY_{30}, 3, 1, 0; 2013 XE_{28}, 2, 1, 0; 2014 DS_{155}, 2, 1, 0; 2014 HH_{83}, 2, 1, 0; 2014 MY_{78}, 2, 1, 0; 2014 OR_{415}, 2, 1, 0; 2014 PG_{30}, 2, 1, 0; 2014 PN_{53}, 2, 1, 0; 2014 PU_{81}, 2, 1, 0; 2014 QN_{483}, 2, 1, 0; 2014 QS_{483}, 3, 1, 0; 2014 QK_{484}, 3, 1, 0; 2014 QH_{485}, 2, 1, 0; 2014 QS_{486}, 2, 1, 0; 2014 QP_{495}, 3, 1, 0; 2014 SP_{24}, 3, 1, 0; 2014 SR_{40}, 2, 1, 0; 2014 SK_{49}, 2, 1, 0; 2014 SS_{62}, 2, 1, 0; 2014 SJ_{204}, 2, 1, 0; 2014 SZ_{364} *, 3, 1, 0; 2014 UG_{13}, 2, 1, 0; 2015 DD_{250}, 2, 1, 0; 2015 FY_{121}, 2, 1, 0; 2015 FS_{386}, 2, 1, 0; 2015 LK_{46}, 2, 1, 0; 2015 RM_{277}, 2, 1, 0; 2015 TK_{347}, 2, 1, 0; 2015 XH_{117}, 2, 1, 0; 2016 BT_{53}, 2, 1, 0; 2016 BU_{73}, 2, 1, 0; 2017 CS_{31}, 2, 1, 0; 2017 NJ_5, 2, 1, 0; 2017 OS_{40}, 2, 1, 0; 2017 OK_{63}, 2, 1, 0; 2017 PX_{22}, 2, 1, 0; 2017 VK_{31}, 2, 1, 0; 2018 NE_{13}, 2, 1, 0; 2018 PN_{26}, 2, 1, 0; 2018 RB_{15}, 2, 1, 0; 2018 RZ_{16}, 2, 1, 0; 2018 RM_{23}, 2, 1, 0; *[176, 79, 2*, 2000/02/05–2015/06/12]*

{3} 2008 XM_{57}, 5, 1, 0; *[5, 1, 0*, 2003/01/04]*

{5} 2007 VX_{340}, 3, 1, 0; *[3, 1, 0*, 1996/12/14]*

{28} 2004 TP_1, 3, 1, 0; 2004 XE_6, 3, 1, 0; 2009 QJ_9, 5, 2, 1; 2009 ST_{103}, 3, 1, 0; 2009 UE_2, 2, 1, 0; 2009 WM_1, 3, 1, 0; 2011 GN_{44}, 3, 1, 0; 2011 WO_4, 5, 2, 60; 2012 BV_{26}, 3, 1, 0; 2013 FW_{13}, 5, 2, 60; 2013 YB_{38}, 2, 1, 0; 2014 DN_{112}, 6, 2, 1; 2014 NE_3, 9, 3, 35; 2014 OL_{339}, 3, 1, 0; 2014 SM_{143}, 3, 1, 0; 2014 UV, 3, 1, 0; 2015 DP_{155}, 6, 2, 1; 2015 HF_{11}, 3, 1, 0; 2015 MB_{54}, 3, 1, 0; 2015 UC_{67}, 6, 2, 2; 2016 NQ_{32}, 2, 1, 0; 2017 BD_{29}, 3, 1, 0; 2017 MU_8, 2, 1, 0; 2017 SG_{14}, 3, 1, 0; 2017 YZ_1, 2, 1, 0; 2018 EB, 3, 1, 0; 2018 EJ_4, 6, 2, 1; 2018 FS_3, 3, 1, 0; 2018 FO_5, 3, 1, 0; 2018 GA, 6, 2, 59; 2018 GL, 3, 1, 0; 2018 JN, 3, 1, 0; 2018 JW_1, 9, 3, 2; 2018 JC_3, 3, 1, 0; 2018 KB_1, 3, 1, 0; 2018 KK_2, 3, 1, 0; 2018 KZ_2, 6, 2, 1; 2018 KA_3, 3, 1, 0; 2018 KC_3, 6, 2, 1; 2018 KD_3, 6, 2, 1; 2018 KF_3, 3, 1, 0; 2018 KH_3, 9, 3, 92; 2018 LB_1, 4, 2, 3; 2018 LK_2, 3, 1, 0; 2018 LL_2, 6, 2, 3; 2018 LC_3, 3, 1, 0; 2018 LF_3, 3, 1, 0; 2018 LO_3, 3, 1, 0; 2018 LU_3, 3, 1, 0; 2018 LE_4, 2, 1, 0; 2018 MA_5, 2, 1, 0; 2018 MW_6, 3, 1, 0; 2018 MX_6, 3, 1, 0; 2018 MB_7, 3, 1, 0; 2018 MC_7, 2, 1, 0; 2018 NC, 3, 1, 0; 2018 NE, 3, 1, 0; 2018 NL, 2, 1, 0; 2018 NY_{14}, 6, 2, 2; 2018 OU, 3, 1, 0; 2018 OW, 6, 2, 2; 2018 OX, 3, 1, 0; 2018 OZ, 3, 1, 0; 2018 OB_1, 2, 1, 0; 2018 OC_1, 6, 1, 0; 2018 PU_7, 3, 1, 0; 2018 PB_{20}, 3, 1, 0; 2018 PK_{21}, 2, 1, 0; 2018 PH_{22}, 3, 1, 0; 2018 PM_{22}, 3, 1, 0; 2018 PL_{23}, 3, 1, 0; 2018 PL_{28}, 2, 1, 0; 2018 QK_1, 6, 2, 1; 2018 QL_1, 3, 1, 0; 2018 QM_1, 3, 1, 0; (497174), 3, 1, 0; (518737), 3, 1, 0; *[283, 77, 0*, 2018/05/27–2018/08/31]*

{31} 2008 AQ_{139}, 3, 1, 0; 2012 BQ_{159}, 3, 1, 0; *[6, 2, 0*, 2012/03/02–2012/03/30]*

699 Lowell Observatory-LONEOS

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001, U.S.A. [elgb@lowell.edu]
Observers B. W. Koehn, B. A. Skiff, M. E. Van Ness
Measurers B. W. Koehn, W. Kelly, B. A. Skiff, M. E. Van Ness, R. A. Cash
0.59-m LONEOS Schmidt + CCD
USNO-B1.0, USNO-A2.0, GSC-ACT

1998 KF_6, 4, 1, 0; 2000 SE_{377} *, 4, 1, 0; 2000 SF_{377} *, 4, 1, 0; 2001 SA_{357} *, 4, 1, 0; 2001 WQ_{104} *, 4, 1, 0; 2002 AT_{210} *, 4, 1, 0; 2002 AU_{210} *, 4, 1, 0; 2002 VW_{149} *, 4, 1, 0; 2003 EX_{63} *, 4, 1, 0; 2003 FF_{134} *, 8, 2, 22; 2003 SQ_{435}, 8, 2, 20; 2003 SR_{435} *, 4, 1, 0; 2003 ST_{435}, 4, 1, 0; 2003 SV_{435} *, 4, 1, 0; 2003 SW_{435} *, 4, 1, 0; 2003 SX_{435} *, 4, 1, 0; 2003 SY_{435} *, 4, 1, 0; 2003 SZ_{435} *, 4, 1, 0; 2003 SA_{436} *, 8, 2, 18; 2003 UG_{419}, 4, 1, 0; 2003 UJ_{419} *, 4, 1, 0; 2003 WV_{195} *, 4, 1, 0; 2003 WW_{195} *, 4, 1, 0; 2004 QL_{29}, 8, 2, 1446; 2004 TU_{371} *, 4, 1, 0; 2005 AE_{83}, 4, 1, 0; 2005 CD_{82} *, 4, 1, 0; 2005 EW_{334} *, 4, 1, 0; 2005 GH_{230} *, 4, 1, 0; 2005 LK_{54}, 4, 1, 0; 2005 QH_{191} *, 4, 1, 0; 2005 TY_{199} *, 4, 1, 0; 2005 TZ_{199} *, 4, 1, 0; 2005 TA_{200} *, 4, 1, 0; 2005 UF_{533}, 4, 1, 0; 2005 UL_{533}, 4, 1, 0; 2005 VP_{138} *, 10, 3, 2581; 2006 BO_{286} *, 4, 1, 0; 2006 CK_{81}, 4, 1, 0; 2006 EK_{76} *, 4, 1, 0; 2006 FL_{56} *, 4, 1, 0; 2006 HG_{155}, 4, 1, 0; 2006 HJ_{155} *, 4, 1, 0; 2006 KB_{146}, 4, 1, 0; 2006 OJ_{38}, 4, 1, 0; 2006 QK_{188}, 4, 1, 0; 2006 QR_{188} *, 4, 1, 0; 2006 QS_{188} *, 4, 1, 0; 2006 RF_{123}, 4, 1, 0; 2006 SO_{422}, 4, 1, 0; 2006 SQ_{422}, 4, 1, 0; 2006 SC_{424}, 4, 1, 0; 2006 SS_{424} *, 4, 1, 0; 2006 ST_{424} *, 4, 1, 0; 2006 SU_{424} *, 3, 1, 0; 2006 SV_{424} *, 4, 1, 0; 2006 WB_{209}, 4, 1, 0; 2006 WE_{209}, 4, 1, 0; 2007 DN_{119}, 4, 1, 0; 2007 EA_{227}, 4, 1, 0; 2007 OL_{11}, 4, 1, 0; 2007 PC_{51} *, 4, 1, 0; 2007 PE_{51}, 4, 1, 0; 2007 RO_{330}, 4, 1, 0; 2007 RA_{332}, 4, 1, 0; 2007 TX_{458}, 4, 1, 0; 2007 WV_{64}, 4, 1, 0; 2008 CS_{218}, 4, 1, 0; 2008 RZ_{148}, 4, 1, 0; 2009 CE_{45}, 4, 1, 0; 2009 HQ_{110}, 4, 1, 0; 2009 KQ_{38}, 4, 1, 0; 2009 OZ_{25}, 4, 1, 0; 2009 OC_{26}, 8, 2, 1963; 2009 WJ_{103}, 4, 1, 0; 2009 YP_{26}, 4, 1, 0; 2010 CQ_{198}, 4, 1, 0; 2010 DA_{21}, 4, 1, 0; 2010 GJ_{17}, 4, 1, 0; 2010 ML_{54}, 4, 1, 0; 2010 SY_{44}, 4, 1, 0; 2010 TZ_{194}, 4, 1, 0; 2010 UQ_{110}, 4, 1, 0; 2011 LG_{29}, 4, 1, 0; 2011 ST_{280}, 4, 1, 0; 2011 UN_{340}, 4, 1, 0; 2011 YV_{50}, 4, 1, 0; 2012 AR_{25}, 4, 1, 0; 2012 BW_{159}, 4, 1, 0; 2012 FL_{87}, 4, 1, 0; 2012 HK_{87}, 4, 1, 0; 2012 JA_{68}, 4, 1, 0; 2012 MS_{16}, 4, 1, 0; 2012 WY_{36}, 4, 1, 0; 2013 AM_{188}, 4, 1, 0; 2013 AQ_{188}, 4, 1, 0; 2013 EL_{61}, 4, 1, 0; 2013 HL_{76}, 4, 1, 0; 2013 RX_{107}, 4, 1, 0; 2013 TF_{171}, 4, 1, 0; 2013 VF_{31}, 4, 1, 0; 2013 XD_{28}, 4, 1, 0; 2014 BZ_{69}, 4, 1, 0; 2014 DO_{155}, 4, 1, 0; 2014 FP_{76}, 4, 1, 0; 2014 FS_{76}, 4, 1, 0; 2014 JF_{92}, 4, 1, 0; 2014 KC_{113}, 4, 1, 0; 2014 MS_{78}, 4, 1, 0; 2014 OL_{415}, 8, 2, 23; 2014 QD, 4, 1, 0; 2014 SS_{62}, 4, 1, 0; 2014 UM_{23}, 4, 1, 0; 2015 DE_{250}, 4, 1, 0; 2015 HM_{115}, 4, 1, 0; 2015 PW_{310}, 4, 1, 0; 2016 BD_{71}, 4, 1, 0; 2016 EQ_{249}, 4, 1, 0; 2016 LW_{64}, 4, 1, 0; 2016 LQ_{65}, 4, 1, 0; 2016 LN_{68}, 4, 1, 0; 2016 NR_{27}, 4, 1, 0; 2016 NE_{31}, 4, 1, 0; 2016 SG_{59}, 4, 1, 0; 2017 DH_{36}, 8, 2, 61; 2017 PG_{31}, 8, 2, 1411; 2017 XD, 4, 1, 0; 2018 NK, 3, 1, 0; 2018 NT, 4, 1, 0; 2018 PE_8, 4, 1, 0; 2018 PE_{26}, 4, 1, 0; 2018 QZ_4, 4, 1, 0; 2018 QW_5, 4, 1, 0; 2018 QD_6, 4, 1, 0; 2018 RN_{12}, 4, 1, 0; 2018 RS_{14}, 4, 1, 0; 2018 RC_{15}, 4, 1, 0; 2018 RX_{24}, 4, 1, 0; (517724), 4, 1, 0; *[592, 139, 39*, 1998/08/19–2007/11/11]*

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Observers J. A. Johnson, B. M. Africano, H. Groeller, D. C. Fuls, G. J. Leonard, R. A. Kowalski, E. J. Christensen
Measurers B. M. Africano, E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. L. Seaman, F. C. Shelly, G. A. Farneth
0.68-m Schmidt
Gaia-DR1, Gaia-DR2

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705 Apache Point
K. Sárneczky, P.O. Box 406, H-6701 Szeged, Hungary [sky@titan.physx.u-szeged.hu] (7)
K. Nault, Adler Planetarium, 1300 S. Lake Shore Dr., Chicago, IL 60605, U.S.A. [knault@adlerplanetarium.org] (11)
{11} 2008 YU_{175}, 3, 1, 0; *[3, 1, 0*, 2016/07/31]*

{7} 2004 NZ_{33}, 6, 2, 1; 2014 QW_{476}, 3, 1, 0; *[9, 2, 0*, 2001/10/15–2003/04/28]*

711 McDonald Observatory
J. G. Ries, McDonald Observatory, University of Texas, Austin, TX 78712, U.S.A. [moon@astro.as.utexas.edu]
Observers J. G. Ries, K. Sárneczky, J. Vinkó, M. Rózsahegyi
Measurers J. G. Ries, K. Sárneczky
2.1-m reflector + CCD + focal reducer, 0.25-m astrograph
USNO-B1.0, UCAC-4
2001 QA_{143}, 3, 1, 0; 2011 EJ_{47}, 3, 1, 0; 2014 QE_{365}, 3, 1, 0; 2015 MT_{53}, 4, 1, 0; 2015 SW_6, 3, 1, 0; 2017 YZ_1, 3, 1, 0; 2018 BV_5, 3, 1, 0; 2018 FO_5, 2, 1, 0; 2018 GA, 3, 1, 0; 2018 KF_3, 3, 1, 0; 2018 LG, 3, 1, 0; 2018 LG_2, 3, 1, 0; 2018 LN_2, 3, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LG_3, 3, 1, 0; 2018 LH_3, 3, 1, 0; 2018 LM_3, 3, 1, 0; 2018 LQ_3, 8, 1, 0; 2018 LT_3, 3, 1, 0; 2018 LX_3, 3, 1, 0; 2018 LP_5, 3, 1, 0; 2018 LU_{15}, 3, 1, 0; 2018 PC, 3, 1, 0; 2018 PN_7, 3, 1, 0; 2018 PO_7, 3, 1, 0; 2018 PR_7, 4, 1, 0; 2018 PW_7, 6, 2, 1; 2018 PX_7, 3, 1, 0; 2018 PY_7, 6, 2, 1; 2018 PZ_7, 3, 1, 0; 2018 PB_8, 3, 1, 0; 2018 PD_8, 3, 1, 0; 2018 PF_8, 6, 2, 1; 2018 PH_8, 6, 2, 1; 2018 PJ_8, 2, 1, 0; 2018 PL_8, 3, 1, 0; 2018 PO_8, 3, 1, 0; 2018 PB_9, 6, 2, 1; 2018 PG_9, 3, 1, 0; 2018 PH_9, 3, 1, 0; 2018 PJ_9, 6, 2, 1; 2018 PL_9, 3, 1, 0; 2018 PM_9, 3, 1, 0; 2018 PN_9, 3, 1, 0; 2018 PO_9, 3, 1, 0; 2018 PP_9, 3, 1, 0; 2018 PQ_9, 3, 1, 0; 2018 PY_9, 3, 1, 0; 2018 PY_{19}, 3, 1, 0; 2018 PL_{28}, 3, 1, 0; 2018 RL, 3, 1, 0; 2018 RM, 11, 1, 0; 2018 RX, 6, 1, 0; 2018 RG_3, 10, 1, 0; 2018 RQ_3, 5, 1, 0; 2018 RS_3, 9, 1, 0; 2018 RV_3, 9, 1, 0; 2018 RW_3, 12, 1, 0; 2018 RX_3, 3, 1, 0; 2018 RO_4, 11, 1, 0; 2018 RW_6, 3, 1, 0; 2018 RX_6, 3, 1, 0; 2018 RY_6, 3, 1, 0; 2018 RF_7, 3, 1, 0; 2018 RG_7, 3, 1, 0; 2018 RJ_7, 3, 1, 0; 2018 RO_7, 3, 1, 0; 2018 RT_7, 3, 1, 0; 2018 RV_7, 3, 1, 0; 2018 RW_7, 3, 1, 0; 2018 RY_7, 3, 1, 0; 2018 RA_8, 3, 1, 0; (213127), 3, 1, 0; (319470), 3, 1, 0; (463003), 3, 1, 0; *[297, 75, 0*, 2018/06/06–2018/09/19]*

718 Tooele
P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt Lake City, UT 84111-1590, U.S.A. [4099wiggins@gmail.com]
0.35-m $f/5.5$ Schmidt-Cassegrain + CCD
UCAC-2
2015 FP_{118}, 6, 1, 0; 2018 LQ_2, 14, 3, 2; 2018 LQ_3, 17, 2, 1; 2018 MG_7, 10, 1, 0; 2018 NB, 3, 1, 0; 2018 QW_1, 4, 1, 0; 2018 RC, 10, 2, 3; 2018 RM, 6, 1, 0; 2018 RQ_2, 11, 2, 2; 2018 RT_5, 3, 1, 0; 2018 RF_8, 8, 1, 0; 2018 RP_8, 3, 1, 0; 2018 SC, 4, 1, 0; (68950), 3, 1, 0; (144332), 54, 11, 13; *[156, 15, 0*, 2018/06/11–2018/09/18]*

719 Etscorn Observatory
W. Ryan, MRO Program Office, New Mexico Tech, Socorro, NM 87801, U.S.A. [bryan@mailaps.org]
Observers M. Lum, A. Noel, C. Valadez, B. Kan, I. Kimbell, A. Zakorchemna, J. Adlawan, D. Dry, E. Nguyen, M. Lau, G. Ulloa, B. Zhang, B. Devine, R. Sreekanth, L. Zeng, M. Galicia, M. Mathew, H. Yubin, L. Akshara, Z. Keinath-Esmail, M. Zhang, M. Guo, P. Kim, S. Kurinchi-Vendhan, J. Casas, P. Li, A. Zhuang, E. Fang, J. Kiernan, N. Liu, K. Docher, C. Hughes, J. Kim, D. Fang, R. Stanford-Hill, M. V. Stone
0.36-m $f/11$ Schmidt-Cassegrain + CCD
GSC, GSC-1.2, UCAC-3, NOMAD
(719), 10, 6, 26; (1627), 12, 6, 27; (13553), 13, 7, 29; (15745), 13, 7, 28; (68950), 6, 4, 18; (283729), 7, 4, 24; *[61, 6, 0*, 2018/06/20–2018/07/19]*

734 Farpoint Observatory
G. Hug, RTE 1 Box 35c, Eskridge, KS 66423, U.S.A. [fast@nekaal.org]
Observers G. Hug, B. Caler, T. Edwards, R. Valentine, B. Troth, D. Cromer, K. Baker
0.69-m reflector + CCD
Gaia-DR1, UCAC-4
2016 QA_{95}, 3, 1, 0; 2018 KG_1, 3, 1, 0; 2018 KH_3, 2, 1, 0; 2018 LO_6, 3, 1, 0; 2018 MH, 2, 1, 0; 2018 NA, 3, 1, 0; 2018 NL, 2, 1, 0; 2018 NQ, 3, 1, 0; 2018 NR, 6, 2, 1; 2018 NS, 3, 1, 0; 2018 ND_1, 3, 1, 0; 2018 NO_1, 6, 2, 23; 2018 NP_1, 4, 1, 0; 2018 NQ_1, 2, 1, 0; 2018 NR_1, 3, 1, 0; 2018 NS_1, 3, 1, 0; 2018 NT_1, 3, 1, 0; 2018 NU_1, 3, 1, 0; 2018 NV_1, 3, 1, 0; 2018 NB_2, 6, 2, 1; 2018 ND_2, 6, 2, 1; 2018 NE_2, 3, 1, 0; 2018 ND_3, 2, 1, 0; 2018 NO_3, 3, 1, 0; 2018 NJ_4, 3, 1, 0; 2018 NK_4, 3, 1, 0; 2018 NM_4, 2, 1, 0; 2018 NA_{15}, 4, 1, 0; 2018 PV_7, 3, 1, 0; 2018 PA_8, 3, 1, 0; 2018 PB_8, 3, 1, 0; 2018 PD_8, 3, 1, 0; 2018 PE_8, 4, 1, 0; 2018 PG_9, 2, 1, 0; 2018 PJ_9, 7, 2, 2; 2018 PQ_9, 3, 1, 0; 2018 PY_9, 3, 1, 0; 2018 PS_{10}, 2, 1, 0; 2018 PT_{10}, 3, 1, 0; 2018 PV_{10}, 3, 1, 0; 2018 PV_{19}, 3, 1, 0; 2018 PK_{20}, 7, 2, 1; 2018 PK_{21}, 3, 1, 0; 2018 PL_{21}, 4, 1, 0; 2018 PN_{21}, 3, 1, 0; 2018 PU_{21}, 3, 1, 0; 2018 PW_{21}, 3, 1, 0; 2018 PE_{22}, 3, 1, 0; 2018 PZ_{22}, 3, 1, 0; 2018 PB_{23}, 4, 1, 0; 2018 PM_{23}, 2, 1, 0; 2018 PO_{23}, 6, 2, 1; 2018 PS_{23}, 2, 1, 0; 2018 PC_{24}, 6, 2, 2; 2018 PL_{28}, 2, 1, 0; 2018 QE, 4, 1, 0; 2018 RT_3, 3, 1, 0; 2018 RK_4, 3, 1, 0; 2018 RN_4, 3, 1, 0; 2018 RA_5, 3, 1, 0; 2018 RB_5, 3, 1, 0; 2018 RH_5, 3, 1, 0; 2018 RV_7, 2, 1, 0; 2018 RW_7, 3, 1, 0; 2018 RX_7, 3, 1, 0; 2018 RA_8, 3, 1, 0; 2018 RC_8, 4, 1, 0; 2018 RD_8, 3, 1, 0; 2018 RG_8, 3, 1, 0; 2018 RM_8, 2, 1, 0; 2018 RO_8, 8, 2, 1; 2018 SB, 3, 1, 0; 2018 SK, 2, 1, 0; (369986), 3, 1, 0; *[246, 74, 0*, 2011/12/31–2018/09/17]*

754 Yerkes Observatory, Williams Bay
V. L. Hoette, Univ. of Chicago Yerkes Observatory, 373 West Geneva Street, Williams Bay, WI 53191, U.S.A. [vhoette@yerkes.uchicago.edu]
Observer A. W. Puckett
Measurers A. W. Puckett, P. E. Halford, V. L. Hoette
0.61-m $f/13.2$ Cassegrain reflector + CCD
PPMXL
2018 RB_6, 6, 1, 0; *[6, 1, 0*, 2018/09/13]*

807 Cerro Tololo
M. W. Buie, Southwest Research Institute, 1050 Walnut St., Suite 300, Boulder, CO 80302, U.S.A. [buie@boulder.swri.edu] (1)
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Observers T. Linder, R. Holmes, S. S. Sheppard, C. Trujillo
Measurers T. Linder, R. Holmes, S. S. Sheppard, M. Brozovic, R. Jacobson
1.00-m $f/10.0$ astrograph + CCD, 4.0-m CTIO reflector + CCD, 0.61-m $f/6.5$ astrograph + CCD
Gaia-DR1, UCAC-3, USNO-A2.0
{15} 2003 QC_{112}, 2, 1, 0; 2005 NA_{127}, 2, 1, 0; 2006 HA_{123}, 2, 1, 0; 2006 JV_{58}, 2, 1, 0; 2006 QQ_{188}, 2, 1, 0; 2008 BF_{55}, 3, 2, 1; 2014 SD_{149}, 2, 1, 0; 2015 XN_{381}, 2, 1, 0; 2018 RB_{25}, 3, 1, 0; *[20, 9, 0*, 2004/08/13–2010/08/13]*

{21} 2015 TY_{386}, 4, 1, 0; 2018 KR_1, 7, 1, 0; *[11, 2, 0*, 2011/06/03–2011/06/04]*

{23} 2015 KF_{172}, 2, 2, 1; 2015 KG_{172}, 2, 2, 1; 2016 FX_{58}, 2, 2, 1; *[6, 3, 0*, 2018/04/12–2018/04/13]*

{1} 2000 SR_{94}, 2, 1, 0; 2002 PL_{203}, 2, 1, 0; 2004 FZ_{166}, 2, 1, 0; 2005 QJ_{191}, 2, 1, 0; 2005 XA_{120}, 2, 1, 0; 2006 AQ_{108}, 2, 1, 0; 2006 DQ_{219}, 2, 1, 0; 2006 DX_{219}, 2, 1, 0; 2006 WH_{208}, 2, 1, 0; 2007 EC_{227}, 2, 1, 0; 2007 TE_{459}, 2, 1, 0; 2007 VQ_{339}, 2, 1, 0; 2007 VA_{340}, 2, 1, 0; 2010 BU_4, 2, 1, 0; 2010 CH_{252}, 2, 1, 0; 2010 US_{110}, 2, 1, 0; 2011 EP_{90}, 2, 1, 0; 2011 GZ_{90}, 2, 1, 0; 2011 UC_{119}, 2, 1, 0; 2011 UH_{418}, 2, 1, 0; 2012 EE_{20}, 2, 1, 0; 2012 SV_{71}, 2, 1, 0; 2012 UV_{183}, 2, 1, 0;

2013 BX_{84}, 2, 1, 0; 2013 CD_{229}, 2, 1, 0; 2013 HL_{53}, 2, 1, 0; 2013 SB_{102}, 2, 1, 0; 2014 MF_{66}, 2, 1, 0; 2014 OH_7, 2, 1, 0; 2014 OQ_{325}, 2, 1, 0; 2014 OR_{415}, 2, 1, 0; 2014 QR_{166}, 2, 1, 0; 2014 QZ_{474}, 2, 1, 0; 2014 QF_{475}, 2, 1, 0; 2014 QW_{483}, 2, 1, 0; 2014 QE_{485}, 2, 1, 0; 2014 QK_{493}, 2, 1, 0; 2014 RW_{27}, 2, 1, 0; 2014 RP_{32}, 2, 1, 0; 2014 SW_7, 2, 1, 0; 2014 SV_{364}, 2, 1, 0; 2014 YW_{63}, 2, 1, 0; 2015 HY_{196}, 2, 1, 0; 2015 RH_{100}, 2, 1, 0; 2015 TK_{301}, 2, 1, 0; 2015 TC_{387}, 2, 1, 0; 2016 AM_{34}, 2, 1, 0; 2016 AY_{210}, 2, 1, 0; 2016 LJ_{67}, 2, 1, 0; 2017 FN_{133}, 2, 1, 0; 2017 OM_{64}, 2, 1, 0; 2017 RO_{105}, 2, 1, 0; 2017 RK_{109}, 2, 1, 0; 2017 SZ_{37}, 2, 1, 0; 2017 UX_{24}, 2, 1, 0; 2018 PP_{16}, 2, 1, 0; 2018 PC_{17}, 2, 1, 0; 2018 RM_{16}, 2, 1, 0; *[116, 58, 0*, 2000/07/29–2006/04/28]*

{32} 1993 TQ_2, 3, 1, 0; 1998 YR_{11}, 2, 1, 0; 1999 FJ_{21}, 3, 1, 0; 1999 RB_{32}, 3, 1, 0; 2001 RQ_{17}, 3, 1, 0; 2001 VF_2, 3, 1, 0; 2002 JC_9, 2, 1, 0; 2003 LG, 3, 1, 0; 2004 LB, 7, 1, 0; 2004 MW_2, 3, 1, 0; 2004 UV_1, 3, 1, 0; 2004 VB, 3, 1, 0; 2005 MS_5, 6, 2, 1; 2005 WF_{57}, 4, 1, 0; 2006 JH_{82}, 3, 1, 0; 2007 PR_{10}, 3, 1, 0; 2008 CG_{219}, 3, 1, 0; 2008 TY_3, 3, 1, 0; 2008 VS_{46}, 3, 1, 0; 2009 QG_{34}, 6, 2, 20; 2009 UX_{19}, 3, 1, 0; 2010 SO_{11}, 2, 1, 0; 2011 OB, 3, 1, 0; 2011 QX_8, 3, 1, 0; 2011 WR_{28}, 3, 1, 0; 2012 EC_9, 3, 1, 0; 2012 LK_2, 3, 1, 0; 2012 VE_{37}, 3, 1, 0; 2013 PG_3, 3, 1, 0; 2013 PN_{12}, 3, 1, 0; 2013 TW_{135}, 3, 1, 0; 2014 NH_{64}, 3, 1, 0; 2014 OB_{99}, 3, 1, 0; 2014 RC_{11}, 3, 1, 0; 2014 SZ_{303}, 3, 1, 0; 2014 TW_{32}, 6, 2, 20; 2015 BW_{92}, 4, 2, 1; 2015 ED_7, 6, 2, 9; 2015 FU_{332}, 6, 2, 2; 2015 OJ_{22}, 6, 2, 1; 2016 EC_{195}, 7, 2, 3; 2016 RH_{18}, 6, 2, 2; 2016 RY_{40}, 6, 2, 1; 2016 UE_{101}, 6, 2, 1; 2016 XD_1, 3, 1, 0; 2016 YE_3, 6, 2, 1; 2017 BO_3, 6, 2, 1; 2017 BK_{31}, 3, 1, 0; 2017 GB_8, 3, 1, 0; 2017 MD_7, 7, 2, 2; 2017 UX_5, 3, 1, 0; 2017 UQ_{44}, 3, 1, 0; 2017 VR_{12}, 2, 1, 0; 2017 WE_2, 6, 2, 1; 2017 WR_{13}, 3, 1, 0; 2017 XD, 3, 1, 0; 2017 XC_{62}, 3, 1, 0; 2017 YF_5, 2, 1, 0; 2018 BN_3, 3, 1, 0; 2018 BJ_5, 3, 1, 0; 2018 BH_6, 13, 5, 93; 2018 CE_2, 3, 1, 0; 2018 DE_2, 3, 1, 0; 2018 DK_3, 3, 1, 0; 2018 DX_3, 3, 1, 0; 2018 EM_2, 6, 2, 22; 2018 EY_3, 6, 2, 3; 2018 ED_4, 3, 1, 0; 2018 ER_4, 3, 1, 0; 2018 FH, 5, 2, 24; 2018 FY_1, 3, 1, 0; 2018 FF_2, 4, 1, 0; 2018 FP_3, 3, 1, 0; 2018 FJ_4, 9, 3, 54; 2018 FE_5, 3, 1, 0; 2018 FH_5, 2, 1, 0; 2018 FQ_5, 11, 4, 85; 2018 GC, 3, 1, 0; 2018 GX, 3, 1, 0; 2018 GL_1, 3, 1, 0; 2018 GT_1, 6, 2, 1; 2018 GQ_2, 9, 3, 56; 2018 GR_2, 6, 2, 1; 2018 GJ_4, 2, 1, 0; 2018 GX_4, 6, 2, 4; 2018 GY_4, 6, 2, 1; 2018 GZ_4, 3, 1, 0; 2018 GQ_5, 3, 1, 0; 2018 HH, 6, 2, 29; 2018 HJ, 6, 2, 29; 2018 HH_2, 3, 1, 0; 2018 HS_3, 3, 1, 0; 2018 HT_3, 5, 2, 1; 2018 JC, 6, 2, 1; 2018 JE, 6, 2, 16; 2018 JL, 5, 2, 56; 2018 JG_1, 3, 1, 0; 2018 JN_1, 4, 1, 0; 2018 JC_5, 3, 1, 0; 2018 KC_1, 3, 1, 0; 2018 KK_2, 9, 3, 51; 2018 KM_2, 3, 1, 0; 2018 KO_2, 3, 1, 0; 2018 KP_2, 3, 1, 0; 2018 KW_2, 3, 1, 0; 2018 KA_3, 3, 1, 0; 2018 KE_3 *, 25, 6, 13; 2018 KG_3, 6, 2, 3; 2018 KH_3, 6, 2, 7; 2018 KA_4, 3, 1, 0; 2018 KB_4, 6, 2, 1; 2018 LG, 3, 1, 0; 2018 LH, 6, 2, 7; 2018 LK, 4, 1, 0; 2018 LM, 9, 3, 11; 2018 LO, 3, 1, 0; 2018 LP, 3, 1, 0; 2018 LT, 3, 1, 0; 2018 LW, 3, 1, 0; 2018 LX, 3, 1, 0; 2018 LY, 3, 1, 0; 2018 LZ, 3, 1, 0; 2018 LA_1, 3, 1, 0; 2018 LB_1, 15, 5, 88; 2018 LD_1, 2, 1, 0; 2018 LE_1, 3, 1, 0; 2018 LF_1, 3, 1, 0; 2018 LH_1, 3, 1, 0; 2018 LJ_1, 9, 3, 93; 2018 LK_2, 11, 3, 14; 2018 LP_2, 9, 3, 68; 2018 LS_2, 6, 2, 31; 2018 LT_2, 9, 2, 2; 2018 LX_2, 3, 1, 0; 2018 LC_3, 3, 1, 0; 2018 LE_3, 3, 1, 0; 2018 LR_3, 3, 1, 0; 2018 LT_3, 3, 1, 0; 2018 LU_3, 3, 1, 0; 2018 LW_3, 3, 1, 0; 2018 LD_4, 3, 1, 0; 2018 LH_4, 3, 1, 0; 2018 LO_4, 3, 1, 0; 2018 LR_4, 3, 1, 0; 2018 LU_4, 3, 1, 0; 2018 LV_4, 3, 1, 0; 2018 LW_4, 3, 1, 0; 2018 LX_4, 3, 1, 0; 2018 LY_4, 6, 2, 2; 2018 LZ_4, 6, 2, 2; 2018 LA_5, 3, 1, 0; 2018 LB_5, 3, 1, 0; 2018 LC_5, 3, 1, 0; 2018 LD_5, 6, 2, 2; 2018 LG_5, 6, 2, 1; 2018 LH_5, 6, 2, 2; 2018 LJ_5, 12, 4, 58; 2018 LK_5, 10, 3, 29; 2018 LL_5, 3, 1, 0; 2018 LM_5, 8, 3, 78; 2018 LN_5, 3, 1, 0; 2018 LP_5, 3, 1, 0; 2018 LQ_5, 6, 2, 2; 2018 LS_5, 3, 1, 0; 2018 LT_5, 6, 2, 2; 2018 LU_5, 3, 1, 0; 2018 LZ_5, 3, 1, 0; 2018 LA_6, 3, 1, 0; 2018 LB_6, 3, 1, 0; 2018 LC_6, 4, 1, 0; 2018 LD_6, 4, 1, 0; 2018 LE_6, 6, 2, 1; 2018 LF_6, 2, 1, 0; 2018 LG_6, 3, 1, 0; 2018 LJ_6, 3, 1, 0; 2018 LK_6, 2, 1, 0; 2018 LM_6, 3, 1, 0; 2018 LQ_6, 6, 2, 3; 2018 LR_6, 8, 3, 60; 2018 LZ_{13}, 5, 1, 0; 2018 LN_{15}, 6, 2, 4; 2018 LO_{15}, 3, 1, 0; 2018 LP_{15}, 3, 1, 0; 2018 LQ_{15}, 3, 1, 0; 2018 LR_{15}, 12, 4, 82; 2018 LS_{15}, 6, 2, 79; 2018 LV_{15}, 3, 1, 0; 2018 LW_{15}, 3, 1, 0; 2018 LZ_{15}, 12, 4, 6; 2018 LA_{16}, 9, 3, 75; 2018 LD_{16}, 15, 5, 77; 2018 LE_{16}, 3, 1, 0; 2018 LG_{16}, 7, 2, 4; 2018 MA, 3, 1, 0; 2018 MD, 3, 1, 0; 2018 ME, 2, 1, 0; 2018 MF, 6, 2, 3; 2018 MG, 2, 1, 0; 2018 MF_4, 2, 1, 0; 2018 MG_4, 3, 1, 0; 2018 MH_4, 6, 2, 1; 2018 MU_4, 6, 2, 1; 2018 MV_4, 6, 2, 82; 2018 MW_4, 3, 1, 0; 2018 MX_4, 3, 1, 0; 2018 MY_4, 3, 1, 0; 2018 MA_5, 3, 1, 0; 2018 MB_5, 2, 1, 0; 2018 MC_5, 3, 1, 0; 2018 MD_5, 3, 1, 0; 2018 ME_5, 3, 1, 0; 2018 MH_5, 3, 1, 0; 2018 MJ_5, 3, 1, 0; 2018 MK_5, 6, 2, 19; 2018 MM_5, 3, 1, 0; 2018 MO_5, 8, 3, 79; 2018 MP_5, 3, 1, 0; 2018 MQ_6, 9, 3, 56; 2018 MR_6, 3, 1, 0; 2018 MS_6, 3, 1, 0; 2018 MT_6, 5, 2, 18; 2018 MV_6, 3, 1, 0; 2018 MY_6, 3, 1, 0; 2018 ME_7, 3, 1, 0; 2018 MH_7, 4, 1, 0; 2018 MJ_8, 3, 1, 0; 2018 ML_8, 6, 2, 28; 2018 MP_8, 4, 1, 0; 2018 NA, 2, 1, 0; 2018 NC, 3, 1, 0; 2018 NM, 3, 1, 0; 2018 NO, 3, 1, 0; 2018 NE_1, 4, 1, 0; 2018 NJ_1, 3, 1, 0; 2018 NL_1, 3, 1, 0; 2018 NO_1, 3, 1, 0; 2018 NS_1, 3, 1, 0; 2018 NT_1, 6, 2, 1; 2018 NU_1, 3, 1, 0; 2018 NW_1, 5, 1, 0; 2018 NX_1, 6, 2, 3; 2018 NZ_1, 2, 1, 0; 2018 NA_2, 3, 1, 0; 2018 NF_2, 5, 2, 2; 2018 NG_2, 3, 1, 0; 2018 NH_2, 3, 1, 0; 2018 NJ_2, 9, 3, 13; 2018 NM_2, 6, 2, 2; 2018 NN_2, 6, 2, 2; 2018 NO_2, 3, 1, 0; 2018 NS_2, 3, 1, 0; 2018 NT_2, 11, 4, 13; 2018 NU_2, 3, 1, 0; 2018 NW_2, 5, 2, 2; 2018 NX_2, 6, 2, 1; 2018 NZ_2, 3, 1, 0; 2018 NC_3, 9, 3, 3; 2018 ND_3, 3, 1, 0; 2018 NE_3, 3, 1, 0; 2018 NF_3, 6, 2, 1; 2018 NG_3, 5, 2, 1; 2018 NH_3, 3, 1, 0; 2018 NJ_3, 3, 1, 0; 2018 NL_3, 3, 1, 0; 2018 NM_3, 12, 4, 32; 2018 NN_3, 6, 2, 1; 2018 NO_3, 2, 1, 0; 2018 NP_3, 6, 2, 2; 2018 NQ_3, 3, 1, 0; 2018 NR_3, 3, 1, 0; 2018 NS_3, 6, 2, 1; 2018 NT_3, 7, 2, 27; 2018 NU_3, 3, 1, 0; 2018 NV_3, 3, 1, 0; 2018 NW_3, 6, 2, 3; 2018 NX_3, 3, 1, 0; 2018 NB_4, 12, 4, 56; 2018 NC_4, 3, 1, 0; 2018 NE_4, 8, 3, 53; 2018 NH_4, 6, 2, 23; 2018 NJ_4, 3, 1, 0; 2018 NM_4, 3, 1, 0; 2018 NN_4, 3, 1, 0; 2018 NO_4, 3, 1, 0; 2018 NR_4, 3, 1, 0; 2018 NT_4, 3, 1, 0; 2018 NX_{14}, 2, 1, 0; 2018 NA_{15}, 3, 1, 0; 2018 NC_{15}, 3, 1, 0; 2018 ND_{15}, 3, 1, 0; 2018 NF_{15}, 3, 1, 0; 2018 NG_{15}, 3, 1, 0; 2018 OK, 3, 1, 0; 2018 OQ, 3, 1, 0; 2018 PA, 3, 1, 0; 2018 PO_7, 3, 1, 0; 2018 PS_7, 3, 1, 0; 2018 PT_7, 9, 2, 28; 2018 PV_7, 6, 2, 10; 2018 PA_8, 3, 1, 0; 2018 PB_8, 3, 1, 0; 2018 PF_8, 3, 1, 0; 2018 PG_8, 14, 5, 33; 2018 PH_8, 3, 1, 0; 2018 PK_8, 4, 1, 0; 2018 PL_8, 6, 1, 0; 2018 PM_8, 6, 2, 3; 2018 PN_8, 5, 2, 3; 2018 PO_8, 3, 1, 0; 2018 PV_8, 3, 1, 0; 2018 PW_8, 3, 1, 0; 2018 PX_8, 3, 1, 0; 2018 PY_8, 3, 1, 0; 2018 PZ_8, 3, 1, 0; 2018 PA_9, 3, 1, 0; 2018 PB_9, 6, 2, 28; 2018 PE_9, 3, 1, 0; 2018 PF_9, 6, 2, 34; 2018 PH_9, 3, 1, 0; 2018 PL_9, 3, 1, 0; 2018 PM_9, 3, 1, 0; 2018 PO_9, 9, 3, 27; 2018 PP_9, 6, 2, 15; 2018 PQ_9, 6, 2, 33; 2018 PT_9, 3, 1, 0; 2018 PX_9, 3, 1, 0; 2018 PY_9, 3, 1, 0; 2018 PZ_9, 3, 1, 0; 2018 PB_{10}, 3, 1, 0; 2018 PC_{10}, 3, 1, 0; 2018 PD_{10}, 3, 1, 0; 2018 PE_{10}, 3, 1, 0; 2018 PF_{10}, 3, 1, 0; 2018 PK_{10}, 6, 2, 7; 2018 PL_{10}, 4, 1, 0; 2018 PP_{10}, 3, 1, 0; 2018 PQ_{10}, 3, 1, 0; 2018 PU_{10}, 3, 1, 0; 2018 PY_{19}, 3, 1, 0; 2018 PZ_{19}, 3, 1, 0; 2018 PB_{20}, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PF_{20}, 3, 1, 0; 2018 PL_{20}, 6, 2, 1; 2018 PP_{20}, 6, 2, 5; 2018 PQ_{20}, 6, 2, 4; 2018 PR_{20}, 3, 1, 0; 2018 PS_{20}, 3, 1, 0; 2018 PU_{20}, 3, 1, 0; 2018 PV_{20}, 6, 2, 2; 2018 PW_{20}, 2, 1, 0; 2018 PX_{20}, 5, 2, 2; 2018 PY_{20}, 3, 1, 0; 2018 PA_{21}, 3, 1, 0; 2018 PC_{21}, 3, 1, 0; 2018 PE_{21}, 9, 3, 30; 2018 PF_{21}, 9, 3, 26; 2018 PG_{21}, 9, 3, 4; 2018 PH_{21}, 3, 1, 0; 2018 PJ_{21}, 3, 1, 0; 2018 PK_{21}, 3, 1, 0; 2018 PM_{21}, 9, 3, 25; 2018 PO_{21}, 3, 1, 0; 2018 PP_{21}, 3, 1, 0; 2018 PQ_{21}, 4, 1, 0; 2018 PS_{21}, 3, 1, 0; 2018 PT_{21}, 6, 2, 15; 2018 PU_{21}, 3, 1, 0; 2018 PV_{21}, 3, 1, 0; 2018 PW_{21}, 6, 2, 22; 2018 PX_{21}, 9, 3, 24; 2018 PY_{21}, 6, 2, 21; 2018 PZ_{21}, 3, 1, 0; 2018 PA_{22}, 6, 2, 21; 2018 PC_{22}, 3, 1, 0; 2018 PD_{22}, 6, 2, 1; 2018 PE_{22}, 6, 2, 5; 2018 PO_{22}, 3, 1, 0; 2018 PP_{22}, 6, 2, 2; 2018 PQ_{22}, 3, 1, 0; 2018 PR_{22}, 3, 1, 0; 2018 PS_{22}, 5, 2, 2; 2018 PT_{22}, 3, 1, 0; 2018 PU_{22}, 3, 1, 0; 2018 PV_{22}, 3, 1, 0; 2018 PX_{22}, 3, 1, 0; 2018 PY_{22}, 6, 2, 2; 2018 PZ_{22}, 3, 1, 0; 2018 PA_{23}, 6, 2, 2; 2018 PB_{23}, 6, 2, 2; 2018 PC_{23}, 3, 1, 0; 2018 PD_{23}, 3, 1, 0; 2018 PF_{23}, 3, 1, 0; 2018 PJ_{23}, 3, 1, 0; 2018 PK_{23}, 3, 1, 0; 2018 PL_{23}, 2, 1, 0; 2018 PM_{23}, 3, 1, 0; 2018 PN_{23}, 9, 3, 28; 2018 PP_{23}, 12, 4, 33; 2018 PR_{23}, 3, 1, 0; 2018 PS_{23}, 3, 1, 0; 2018 PV_{23}, 5, 2, 20; 2018 PW_{23}, 3, 1, 0; 2018 PX_{23}, 6, 2, 2; 2018 PB_{24}, 3, 1, 0; 2018 PD_{24}, 6, 2, 2; 2018 PH_{24}, 3, 1, 0; 2018 PO_{24}, 3, 1, 0; 2018 PQ_{24}, 9, 3, 24; 2018 PR_{24}, 6, 2, 6; 2018 PS_{24}, 6, 2, 20; 2018 PA_{25}, 3, 1, 0; 2018 PL_{28}, 3, 1, 0; 2018 QO, 3, 1, 0; 2018 QX, 3, 1, 0; 2018 QY, 3, 1, 0; 2018 QA_1, 3, 1, 0; 2018 QF_1, 5, 2, 1; 2018 QJ_1, 3, 1, 0; 2018 QK_1, 8, 3, 9; 2018 QN_1, 15, 5, 19; 2018 QO_1, 3, 1, 0; 2018 QP_1, 3, 1, 0; 2018 QQ_1, 3, 1, 0; 2018 RE, 3, 1, 0; 2018 RT_1, 3, 1, 0; 2018 RX_1, 2, 1, 0; 2018 RZ_1, 3, 1, 0; 2018 RC_2, 3, 1, 0; 2018 RP_2, 3, 1, 0; 2018 RK_3, 3, 1, 0; 2018 RC_7, 3, 1, 0; 2018 SD, 3, 1, 0; 2018 SE, 3, 1, 0; *[1894, 434, 1*, 2016/08/26–2018/09/18]*

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Measurers T. L. Farnham, M. M. Knight
1.54-m Danish Telescope + CCD
USNO-B1.0

{19} 2007 TQ_{221}, 1, 1, 0; *[1, 1, 0*, 1996/08/21]*

{4} 2011 SB_{184}, 3, 1, 0; 2012 HM_{87}, 3, 1, 0; *[6, 2, 0*, 1993/10/09–1993/10/21]*

{7} 2011 RN_{21}, 3, 1, 0; *[3, 1, 0*, 2003/02/15]*

{8} 2006 WF_{209}, 1, 1, 0; 2018 RY_{22}, 5, 4, 4; *[6, 2, 0*, 1992/03/01–1995/09/24]*

{9} 2007 WX_{64}, 3, 1, 0; 2018 RL_{22}, 4, 1, 0; *[7, 2, 0*, 2005/02/12–2005/02/17]*

{35} 2009 SG_{372}, 7, 1, 0; 2010 CQ_{198}, 7, 1, 0; 2013 YX_{154} *, 44, 8, 7; 2013 YY_{154} *, 14, 2, 1; 2013 YZ_{154} *, 16, 3, 2; 2013 YA_{155} *, 10, 2, 1; 2013 YB_{155} *, 14, 2, 4; 2013 YC_{155} *, 18, 3, 2; 2013 YD_{155} *, 14, 2, 1; 2013 YE_{155} *, 14, 2, 1; 2013 YF_{155} *, 28, 4, 10; 2013 YG_{155} *, 14, 2, 1; 2014 AG_{60} *, 35, 5, 8; 2014 AH_{60} *, 14, 2, 4; 2014 AJ_{60} *, 11, 2, 1; 2014 AK_{60} *, 14, 2,

2; 2014 AL_{60} *, 28, 4, 4; 2014 AM_{60} *, 21, 3, 3; 2014 AN_{60} *, 21, 3, 2; 2014 AO_{60} *, 14, 2, 3; 2014 AP_{60} *, 14, 2, 3; 2014 AQ_{60} *, 14, 2, 3; 2014 AR_{60} *, 14, 2, 3; 2014 AS_{60} *, 14, 2, 1; 2014 QL_{476}, 8, 1, 0; 2015 DQ_{228}, 30, 5, 4; *[452, 26, 22*, 2013/04/14–2014/01/10]*

{32} 2014 SZ_{305}, 8, 1, 0; *[8, 1, 0*, 2008/03/12]*

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Measurer C. Colazo
1.54-m $f/4.8$ reflector + CCD
Gaia-DR1
2012 OY_2, 3, 1, 0; *[3, 1, 0*, 2018/09/07]*

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R. Mackintosh, Seccion Sistema Solar, Asociacion Argentina Amigos de la Astronomia, Av. Patricias Argentinas 550, AR-1405 Capital Federal, Argentina [robertom@aaaa.org.ar]
Observers C. Cebral, E. Godoy, M. Konishi, C. Magliano, A. Masolini, Y. Olivera
Measurers C. Opados, A. Candal
0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
UCAC-4
(1627), 3, 1, 0; (25916), 3, 1, 0; *[6, 2, 0*, 2018/08/16–2018/09/08]*

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Observer D. T. Durig
Measurers D. T. Durig, A. A. Carr, J. M. Vaughn, W. H. Johnson, K. C. Lugo, E. A. Carter
0.3-m Schmidt-Cassegrain + CCD
UCAC-3, UCAC-4
2006 AG_{105}, 2, 1, 0; 2011 US_{19}, 3, 1, 0; 2015 SW_6, 4, 1, 0; 2018 NU_3, 5, 1, 0; 2018 NG_4, 5, 1, 0; 2018 OB, 4, 1, 0; 2018 PB, 2, 1, 0; 2018 PU_7, 5, 1, 0; 2018 PL_8, 5, 1, 0; 2018 PL_9, 4, 1, 0; 2018 PC_{20}, 6, 1, 0; 2018 PM_{20}, 3, 1, 0; 2018 PJ_{22}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QF_1, 6, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QV_1, 9, 2, 1; 2018 QW_1, 6, 1, 0; 2018 RB, 18, 3, 2; 2018 RX, 4, 1, 0; 2018 RD_7, 5, 1, 0; 2018 SD_1, 8, 1, 0; (7632), 3, 1, 0; (45557), 3, 1, 0; (88505), 5, 1, 0; (97567), 5, 1, 0; (108224), 4, 1, 0; (117548), 3, 1, 0; (126452), 2, 1, 0; (138069), 3, 1, 0; (187320), 2, 1, 0; (233955), 5, 1, 0; (267785), 2, 1, 0; (301623), 3, 1, 0; (309320), 3, 1, 0; *[156, 35, 0*, 2018/07/13–2018/09/20]*

900 Moriyama

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0.26-m $f/7.0$ reflector + CCD
UCAC-4
2018 LB, 4, 1, 0; 2018 LR_2, 3, 1, 0; 2018 LQ_3, 5, 1, 0; 2018 LZ_3, 2, 1, 0; 2018 LN_4, 2, 1, 0; 2018 LC_5, 2, 1, 0; 2018 LT_6, 2, 1, 0; 2018 NF_4, 2, 1, 0; *[22, 8, 0*, 2018/06/01–2018/07/14]*

910 Caussols-ODAS

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G. Hahn, DLR Institute of Planetary Exploration, Rudower Chaussee 5, D-12489 Berlin, Germany [Gerhard.Hahn@DLR.de]
Observers A. Maury, D. Albanese, G. Hahn, M. Hoffmann
Measurers A. Maury, G. Hahn
0.90-m Schmidt + CCD
GSC
2009 DF_{146}, 3, 1, 0; 2009 PX_{21}, 3, 1, 0; 2012 MT_{16}, 3, 1, 0; 2014 SO_{207}, 3, 1, 0; 2014 US_{27}, 3, 1, 0; 2014 WD_{24}, 3, 1, 0; 2018 RZ_{16}, 3, 1, 0; *[21, 7, 0*, 1997/08/06–1998/09/11]*

926 Tenagra II Observatory

M. Schwartz, Tenagra Observatories, HC 2 Box 292, Nogales, AZ 85621, U.S.A. [mbs@tenagraobservatories.com]
Observers M. Schwartz, P. R. Holvorcem
0.81-m $f/7$ Ritchey-Chrétien + CCD
USNO-B1.0
1998 UF_{51}, 3, 1, 0; 2001 SK_{42}, 3, 1, 0; 2001 YX_{39}, 3, 1, 0; 2002 AU_{210}, 3, 1, 0; 2003 QN_{120}, 3, 1, 0; 2004 BD_{164}, 3, 1, 0; 2004 YV_{37}, 3, 1, 0; 2005 TC_{199}, 3, 1, 0; 2005 TY_{199}, 3, 1, 0; 2006 BL_{286}, 3, 1, 0; 2006 SP_{422}, 3, 1, 0; 2006 UR_{364}, 3, 1, 0; 2006 UJ_{365}, 3, 1, 0; 2006 VX_{175}, 3, 1, 0; 2006 WP_{208}, 6, 2, 20; 2006 WZ_{208}, 3, 1, 0; 2007 RE_{329}, 3, 1, 0; 2007 RJ_{329}, 3, 1, 0; 2007 TK_{458}, 3, 1, 0; 2007 UP_{144}, 3, 1, 0; 2007 UP_{145}, 3, 1, 0; 2007 VS_{340}, 3, 1, 0; 2007 XF_{61}, 3, 1, 0; 2007 YQ_{76}, 3, 1, 0; 2008 CC_{219}, 3, 1, 0; 2008 TP_{193}, 6, 2, 507; 2008 VY_{82}, 3, 1, 0; 2008 WP_1, 3, 1, 0; 2009 EQ_{32}, 3, 1, 0; 2009 FT_{81}, 3, 1, 0; 2009 OE_{26}, 3, 1, 0; 2010 CJ_{252}, 3, 1, 0; 2010 DG_{91}, 3, 1, 0; 2010 GR_{95}, 3, 1, 0; 2010 HL_{30}, 3, 1, 0; 2010 SG_{45}, 3, 1, 0; 2010 UF_{11}, 3, 1, 0; 2011 AN_{83}, 3, 1, 0; 2011 AX_{83}, 3, 1, 0; 2011 AZ_{83}, 3, 1, 0; 2011 GO_{90}, 3, 1, 0; 2011 KR_{49} *, 3, 1, 0; 2012 MS_{16}, 3, 1, 0; 2012 QG_{54}, 3, 1, 0; 2012 SV_{71} *, 3, 1, 0; 2012 TH_{331}, 3, 1, 0; 2012 TV_{331} *, 3, 1, 0; 2012 UG_{184}, 3, 1, 0; 2012 XP_{159}, 3, 1, 0; 2013 CC_{229}, 3, 1, 0; 2013 JO_{67} *, 3, 1, 0; 2013 LT_{36} *, 3, 1, 0; 2013 VC_{31}, 3, 1, 0; 2013 VS_{31}, 3, 1, 0; 2014 FQ_{76}, 3, 1, 0; 2014 KX_{112}, 3, 1, 0; 2014 OH_7, 3, 1, 0; 2014 QW_{477}, 3, 1, 0; 2014 QL_{490}, 3, 1, 0; 2014 QB_{493}, 3, 1, 0; 2014 WP_{535}, 3, 1, 0; 2015 BY_{192}, 3, 1, 0; 2015 LK_{46}, 3, 1, 0; 2015 TZ_{198}, 3, 1, 0; 2016 JC_5, 3, 1, 0; 2016 KP_6 *, 3, 1, 0; 2016 SG_{59}, 3, 1, 0; 2017 BJ_{35}, 3, 1, 0; 2017 DZ_{14}, 3, 1, 0; 2017 OX_{34}, 3, 1, 0; 2017 VL_{11}, 3, 1, 0; 2017 WF_1, 2, 1, 0; 2018 NP, 3, 1, 0; 2018 NG_{13}, 3, 1, 0; 2018 OP, 3, 1, 0; 2018 PE, 3, 1, 0; 2018 PJ_{28}, 6, 2, 1; 2018 RX_4, 3, 1, 0; 2018 RF_5, 3, 1, 0; 2018 RW_5, 3, 1, 0; 2018 RX_5, 3, 1, 0; 2018 RC_6, 3, 1, 0; 2018 RE_6, 3, 1, 0; 2018 RW_6, 2, 1, 0; 2018 RZ_6, 3, 1, 0; 2018 RB_7, 3, 1, 0; 2018 RJ_{16}, 3, 1, 0; 2018 RY_{22}, 3, 1, 0; 2018 RB_{25}, 3, 1, 0; *[274, 89, 6*, 2003/06/07–2018/09/13]*

932 John J. McCarthy Obs., New Milford

M. Robson, P.O. Box 1144, New Milford, CT 06776, U.S.A. [mail@mccarthyobservatory.org]
Observers I. Bianchi, M. Robson
Measurers M. Tynski, M. Robson, D. Marmaropoulou
0.4-m $f/7.4$ Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-3
2018 NV, 3, 1, 0; 2018 RQ, 3, 1, 0; *[6, 2, 0*, 2018/07/09–2018/09/06]*

941 Observatorio Pla D'Arguines

R. Ferrando, Guardia Civil N. 22, ESC-5 PTA.-34, E-46020 Valencia, Spain [rferrand@pladearguines.com]
Observers R. Ferrando, C. Segarra
0.30-m Schmidt-Cassegrain + CCD
UCAC-2
2007 UR_{143}, 5, 1, 0; *[5, 1, 0*, 2012/11/11]*

947 Saint-Sulpice

B. Christophe, 63 rue Belliard, F-75018 Paris, France [bchristo@club-internet.fr]
0.60-m $f/5.6$ reflector + CCD
USNO-A2.0
2014 ST_{364}, 2, 1, 0; *[2, 1, 0*, 2007/01/23–2007/01/24]*

950 La Palma

A. Fitzsimmons, Physics Department, Queen's University, Belfast BT7 1NN, Northern Ireland [a.fitzsimmons@qub.ac.uk] (3)
O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [ovidiuv@astroclubul.org] (23)
K. Sárneczky, 6701 Szeged, POB 406. Hungary [sky@titan.physx.u-szeged.hu] (33)

Observers M. Serra-Ricart, T. Zegmott, O. Vaduvescu, N. Choque
Measurers S. Lemes-Perera, L. Hudin, O. Vaduvescu, C. Boldea, A. Boldea, E. Petrescu, D. Bertesteanu, D. Gorgan, V. Bacu, T. Stefanut, A. Sabou, D. Balazs, C. Nandra
2.5-m $f/3.3$ reflector + CCD
PPMXL, 2MASS

{23} 2001 UW_{197}, 3, 1, 0; 2005 TP_{199}, 6, 1, 0; 2006 QJ_{82}, 3, 1, 0; 2006 TM_{132}, 8, 1, 0; 2006 WD_{209}, 7, 1, 0; 2007 RB_{329}, 3, 1, 0; 2008 AD_{139}, 5, 1, 0; 2009 SY_{99}, 5, 1, 0; 2009 VL_{55}, 3, 1, 0; 2010 BE_{123}, 4, 1, 0; 2010 UA_{110}, 5, 1, 0; 2011 UZ_{27}, 5, 1, 0; 2012 BQ_{159}, 8, 1, 0; 2012 TS_{195}, 3, 1, 0; 2013 BR_{84}, 8, 1, 0; 2013 HT_{33}, 5, 1, 0; 2013 YH_{44}, 3, 1, 0; 2014 DM_{82}, 4, 1, 0; 2014 OE_{175}, 5, 1, 0; 2014 OL_{339}, 3, 1, 0; 2014 QG_{127}, 8, 1, 0; 2014 QY_{474}, 6, 1, 0; 2014 QD_{481}, 10, 2, 2; 2014 QR_{483}, 5, 1, 0; 2014 QO_{495}, 5, 1, 0; 2014 SV_{15}, 5, 1, 0; 2014 TY_{91}, 5, 1, 0; 2014 WW_{211}, 5, 1, 0; 2015 AF_{285}, 4, 1, 0; 2015 BR_{119}, 5, 1, 0; 2015 BU_{565}, 6, 1, 0; 2015 TN_{386}, 5, 1, 0; 2016 AJ_{275}, 4, 1, 0; 2016 EG_{244}, 4, 1, 0; 2016 JK_{13}, 6, 1, 0; 2017 FC_{128}, 4, 1, 0; 2017 KM, 4, 1, 0; 2017 PJ_{20}, 8, 1, 0; 2018 KF_3, 11, 2, 1; (2497), 3, 1, 0; (4976), 5, 1, 0; (5052), 5, 1, 0; (5229), 5, 1, 0; (6978), 4, 1, 0; (8545), 5, 1, 0; (10151), 5, 1, 0; (10475), 5, 1, 0; (12194), 5, 1, 0; (12720), 5, 1, 0; (13708), 5, 1, 0; (15229), 5, 1, 0; (19656), 5, 1, 0; (21327), 5, 1, 0; (27175), 5, 1, 0; (36618), 5, 1, 0; (38786), 5, 1, 0; (45913), 5, 1, 0; (46725), 5, 1, 0; (49322), 5, 1, 0; (54336), 5, 1, 0; (56165), 3, 1, 0; (58496), 5, 1, 0; (62109), 5, 1, 0; (65797), 5, 1, 0; (65885), 3, 1, 0; (67908), 5, 1, 0; (68356), 5, 1, 0; (68811), 3, 1, 0; (70918), 3, 1, 0; (82007), 5, 1, 0; (83399), 5, 1, 0; (85341), 5, 1, 0; (85592), 3, 1, 0; (94150), 5, 1, 0; (96632), 5, 1, 0; (98455), 5, 1, 0; (98591), 3, 1, 0; (102168), 3, 1, 0; (102575), 5, 1, 0; (103132), 5, 1, 0; (105019), 5, 1, 0; (105595), 3, 1, 0; (115058), 3, 1, 0; (116781), 5, 1, 0; (124281), 3, 1, 0; (130475), 6, 1, 0; (135146), 5, 1, 0; (135319), 3, 1, 0; (137919), 4, 1, 0; (142157), 5, 1, 0; (143376), 5, 1, 0; (143422), 5, 1, 0; (148594), 3, 1, 0; (156214), 5, 1, 0; (160947), 11, 2, 1; (162160), 4, 1, 0; (162424), 4, 1, 0; (163500), 5, 1, 0; (165345), 5, 1, 0; (165819), 11, 2, 2; (166074), 3, 1, 0; (166278), 5, 1, 0; (170222), 5, 1, 0; (171541), 3, 1, 0; (172539), 5, 1, 0; (194293), 4, 1, 0; (199176), 3, 1, 0; (200813), 3, 1, 0; (201755), 5, 1, 0; (202232), 4, 1, 0; (202779), 3, 1, 0; (205322), 5, 1, 0; (206753), 5, 1, 0; (208387), 3, 1, 0; (209365), 5, 1, 0; (209390), 5, 1, 0; (211934), 3, 1, 0; (213262), 5, 1, 0; (222311), 3, 1, 0; (236206), 3, 1, 0; (240005), 4, 1, 0; (242446), 5, 1, 0; (247806), 4, 1, 0; (253800), 4, 1, 0; (258032), 4, 1, 0; (258256), 5, 1, 0; (268486), 4, 1, 0; (270058), 5, 1, 0; (278223), 4, 1, 0; (280672), 4, 1, 0; (284167), 5, 1, 0; (286003), 14, 2, 1; (287385), 4, 1, 0; (294312), 3, 1, 0; (298941), 5, 1, 0; (302276), 3, 1, 0; (303328), 5, 1, 0; (307116), 3, 1, 0; (309270), 5, 1, 0; (309842), 4, 1, 0; (310988), 4, 1, 0; (316268), 5, 1, 0; (317068), 3, 1, 0; (317276), 5, 1, 0; (320747), 3, 1, 0; (325451), 5, 1, 0; (332422), 5, 1, 0; (333751), 4, 1, 0; (334177), 5, 1, 0; (338411), 5, 1, 0; (343023), 3, 1, 0; (343578), 3, 1, 0; (355824), 3, 1, 0; (357960), 4, 1, 0; (359018), 3, 1, 0; (361082), 3, 1, 0; (364650), 4, 1, 0; (368187), 4, 1, 0; (368800), 4, 1, 0; (369389), 5, 1, 0; (370761), 3, 1, 0; (370765), 5, 1, 0; (371006), 5, 1, 0; (383653), 5, 1, 0; (399346), 5, 1, 0; (400579), 4, 1, 0; (405234), 5, 1, 0; (411800), 11, 2, 1; (414211), 5, 1, 0; (415810), 4, 1, 0; (420540), 5, 1, 0; (421689), 11, 2, 1; (423905), 5, 1, 0; (425145), 3, 1, 0; (427565), 11, 2, 1; (428371), 3, 1, 0; (429126), 3, 1, 0; (433732), 5, 1, 0; (433816), 3, 1, 0; (453264), 4, 1, 0; (453315), 3, 1, 0; (457399), 5, 1, 0; (464538), 4, 1, 0; (465975), 5, 1, 0; (466204), 3, 1, 0; (472404), 3, 1, 0; (485419), 13, 2, 1; (487072), 4, 1, 0; (488531), 4, 1, 0; (492315), 3, 1, 0; (492428), 8, 1, 0; (496722), 3, 1, 0; (501119), 5, 1, 0; (502421), 6, 1, 0; *[922, 194, 0∗, 2012/02/27–2018/09/19]*

{3} 2011 UX_{417}, 3, 1, 0; 2013 NG_{33}, 3, 1, 0; 2015 HU_{196}, 3, 1, 0; 2015 TK_{301}, 3, 1, 0; *[12, 4, 0∗, 1998/11/17–2002/11/02]*

{33} (106089), 4, 1, 0; (106822), 3, 1, 0; (281371), 2, 1, 0; *[9, 3, 0∗, 2011/12/06–2012/01/07]*

954 Teide Observatory

R. Casas, A. A. Sabadell P.O. Box 50, E-08200 Sabadell, Spain [rcr@ot.iac.es]
Observer M. Serra-Ricart
Measurers S. Lemes-Perera, J. Buri, W. Kryzanowski, J. Conde, J. Rubio-Hernandez, F. J. Benavides-Perez, M. Camarasa
0.80-m $f/11$ Cassegrain + CCD
USNO-SA2.0

2014 DA_{52}, 10, 1, 0; 2014 SJ_{92}, 5, 1, 0; 2015 VK_{33}, 5, 1, 0; 2017 FG_{87}, 5, 1, 0; 2018 NH_{15} ∗, 4, 2, 4; 2018 NJ_{15} ∗, 6, 2, 1; 2018 PB_{11}, 10, 1, 0; (117787), 5, 1, 0; (129619), 10, 1, 0; (165949), 5, 1, 0; (211357), 5, 1, 0; *[70, 11, 2∗, 2018/04/11–2018/09/08]*

970 Chelmsford

N. D. James, 11 Tavistock Road, Chelmsford, Essex CM1 6JL, England [ndj@blueyonder.co.uk]
0.28-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4

2015 FP_{118}, 12, 4, 3; *[12, 1, 0∗, 2018/08/31–2018/09/03]*

A13 Observatoire Naef, Marly

P. Kocher, ufem Berg 23, CH-1734 Tentlingen, Switzerland [kocher@bluewin.ch]
0.5-m $f/3.3$ Cassegrain + CCD
UCAC-2

2007 OM_{11}, 2, 1, 0; *[2, 1, 0∗, 2007/09/15]*

A14 Les Engarouines Observatory

L. Bernasconi, Les Engarouines Observatory, 1302 Les Engarouines, F-84570 Malemort du Comtat, France [Laurent.Bernasconi.51@wanadoo.fr]
0.212-m $f/3.9$ reflector + CCD
USNO-SA2.0

2007 ED_{227}, 3, 1, 0; 2007 RK_{329}, 3, 1, 0; 2008 AP_{139}, 3, 1, 0; 2011 WA_{159}, 3, 1, 0; 2011 YU_{80}, 3, 1, 0; 2012 WB_{37}, 3, 1, 0; 2015 XB_{348}, 3, 1, 0; 2017 EC_{11}, 3, 1, 0; 2018 RZ_{21}, 3, 1, 0; *[27, 9, 0∗, 2011/02/06–2012/03/14]*

A16 Tentlingen

P. Kocher, ufem Berg 23, CH-1734 Tentlingen, Switzerland [kocher@bluewin.ch]
0.3-m $f/3.3$ Newtonian reflector + CCD
Gaia-DR2

2015 BR_{514}, 10, 2, 3; (39), 3, 1, 0; (719), 4, 1, 0; (1627), 3, 1, 0; (2196), 3, 1, 0; (9532), 3, 1, 0; (68950), 3, 1, 0; (136108), 3, 1, 0; (139345), 5, 1, 0; (283729), 7, 2, 1; (438429), 3, 1, 0; (455550), 4, 1, 0; *[51, 12, 0∗, 2018/06/20–2018/07/24]*

A17 Guidestar Observatory, Weinheim

M. Emmerich, Brunhildstrasse 31, D-69469 Weinheim, Germany [mark@guidestar.de]
Observers M. Emmerich, S. Melchert
0.36-m $f/6$ Schmidt-Cassegrain + CCD
UCAC-4

1999 VQ_{11}, 6, 2, 5; 2000 SB_1, 3, 1, 0; 2001 QC_{96}, 3, 1, 0; 2001 QQ_{106}, 3, 1, 0; 2001 SK_{276}, 3, 1, 0; 2002 NE_{71}, 3, 1, 0; 2004 RT_{109}, 3, 1, 0; 2005 MF_5, 3, 1, 0; 2005 RB, 9, 3, 17; 2006 OT_9, 3, 1, 0; 2006 SB_{206}, 3, 1, 0; 2009 OQ_{14}, 3, 1, 0; 2010 RD_{75}, 3, 1, 0; 2012 BV_{26}, 3, 1, 0; 2012 OD_1, 6, 2, 13; 2012 UV_{27}, 6, 2, 2; 2013 EP_{41}, 6, 2, 24; 2014 OR_{296}, 3, 1, 0; 2015 AX_{16}, 9, 3, 43; 2015 SW_6, 3, 1, 0; 2016 ND_{21}, 18, 6, 41; 2016 NF_{23}, 6, 2, 7; 2017 DO_{36}, 3, 1, 0; 2017 YE_5, 4, 1, 0; 2017 YC_8, 3, 1, 0; 2018 GA_5, 6, 2, 57; 2018 JV, 3, 1, 0; 2018 JY_1, 3, 1, 0; 2018 JC_3, 6, 1, 0; 2018 JE_5, 3, 1, 0; 2018 KN_2, 4, 1, 0; 2018 KC_3, 3, 1, 0; 2018 LJ, 6, 2, 1; 2018 LK, 4, 1, 0; 2018 LN, 3, 1, 0; 2018 LC_1, 3, 1, 0; 2018 LQ_2, 15, 5, 37; 2018 LD_3, 3, 1, 0; 2018 LH_5, 3, 1, 0; 2018 LW_5, 3, 1, 0; 2018 LZ_5, 23, 8, 70; 2018 LN_6, 3, 1, 0; 2018 MH, 6, 2, 6; 2018 MX_6, 3, 1, 0; 2018 MY_6, 3, 1, 0; 2018 MB_7, 3, 1, 0; 2018 MD_7, 3, 1, 0; 2018 MM_8, 9, 3, 23; 2018 MR_8, 3, 1, 0; 2018 NA, 4, 1, 0; 2018 NB, 19, 5, 41; 2018 NK, 3, 1, 0; 2018 NP, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 NU, 3, 1, 0; 2018 NV, 4, 1, 0; 2018 ND_1, 6, 2, 15; 2018 NE_1, 3, 1, 0; 2018 NU_3, 6, 2, 6; 2018 NZ_3, 2, 1, 0; 2018 NF_4, 3, 1, 0; 2018 NG_4, 3, 1, 0; 2018 NL_4, 3, 1, 0; 2018 NY_{14}, 3, 1, 0; 2018 OB, 3, 1, 0; 2018 OR, 3, 1, 0; 2018 OZ, 3, 1, 0; 2018 OC_1, 14, 5, 45; 2018 PU_7, 10, 3, 10; 2018 PW_7, 6, 2, 4; 2018 PJ_9, 3, 1, 0; 2018 PJ_{10}, 3, 1, 0; 2018 PL_{10}, 3, 1, 0; 2018 PJ_{22}, 9, 3, 13; 2018 PK_{22}, 3, 1, 0; 2018 PK_{23}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QT, 3, 1, 0; 2018 QA_1, 3, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QV_1, 3, 1, 0; 2018 RB, 3, 1, 0; 2018 RC, 3, 1, 0; 2018 RH, 3, 1, 0; 2018 RM, 9, 3, 6; 2018 RX, 3, 1, 0; 2018 RY, 3, 1, 0; 2018 RC_1, 3, 1, 0; 2018 RQ_1, 3, 1, 0; 2018 RS_1, 3, 1, 0; 2018 RA_2, 3, 1, 0; 2018 RL_2, 6, 2, 2; 2018 RQ_2, 4, 1, 0; 2018 RT_2, 3, 1, 0; 2018 RF_3, 4, 1, 0; 2018 RG_3, 4, 1, 0; 2018 RW_3, 3, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RO_5, 3, 1, 0; 2018 RO_7, 6, 2, 1; 2018 RF_8, 3, 1, 0; 2018 RP_8, 6, 2, 2; 2018 RU_8, 3, 1, 0; 2018 SB, 3, 1, 0; 2018 SD_1, 3, 1, 0; (3379), 3, 1, 0; (7400), 3, 1, 0; (9856), 3, 1, 0; (14074), 3, 1, 0; (16007), 3, 1, 0; (18516), 3, 1, 0; (21688), 3, 1, 0; (30193), 3, 1, 0; (33318), 3, 1, 0; (34101), 3, 1, 0; (37711), 3, 1, 0; (40755), 3, 1, 0; (41971), 3, 1, 0; (47846), 3, 1, 0; (51839), 3, 1, 0; (52942), 3, 1, 0; (65706), 3, 1, 0; (65996), 3, 1, 0; (67574), 3, 1, 0; (68274), 3, 1, 0; (76091), 3, 1, 0; (88298), 3, 1, 0; (92379), 3, 1, 0; (110983), 3, 1, 0; (123237), 3, 1, 0; (138847), 3, 1, 0; (139345), 7, 1, 0; (140039), 6, 2, 1; (148558), 3, 1, 0; (162168), 3, 1, 0; (165812), 3, 1, 0; (175532), 3, 1, 0; (182111), 3, 1, 0; (196990), 3, 1, 0; (204787), 3, 1, 0; (206230), 3, 1, 0; (211857), 3, 1, 0; (219388), 3, 1, 0; (238432), 3, 1, 0; (251248), 3, 1, 0; (253062), 3, 1, 0; (271760), 3, 1, 0; (274779), 3, 1, 0; (332389), 3, 1, 0; (336523),

3, 1, 0; (350988), 3, 1, 0; (420223), 3, 1, 0; (427466), 3, 1, 0; (457260), 3, 1, 0; (481394), 3, 1, 0; *[638, 156, 0∗, 2018/05/26–2018/09/20]*

A21 Irmtraut
J. J. Müller, Lerchenstr. 9, D-56479 Irmtraut, Germany [j.j.mueller@onlinehome.de]
0.31-m $f/4.8$ reflector + CCD
USNO-A2.0, UCAC-2
2018 JQ, 3, 1, 0; *[3, 1, 0∗, 2018/05/08]*

A29 Santa Maria a Monte
M. Bachini, Localitá Tavolaia, Santa Maria a Monte, I-56020 (PI), Italy [maurobachini@tiscalinet.it]
Observers M. Bachini, G. Succi, M. Masucci
0.40-m $f/5$ reflector + CCD
Gaia-DR2
2018 NP, 3, 1, 0; 2018 NQ, 3, 1, 0; *[6, 2, 0∗, 2018/07/07]*

A35 Hormersdorf Observatory
J. Lorenz, An den drei Teichen 35, D-09395 Hormersdorf, Germany [joachim.lorenz.hormersdorf@t-online.de]
0.30-m $f/3.6$ reflector + CCD
Gaia-DR2
(363619), 4, 1, 0; *[4, 1, 0∗, 2018/08/19]*

A48 Povegliano Veronese
F. Rossetti, Via Di Vittorio 6, Povegliano Veronese (Verona), Italy [rosfla@libero.it]
0.30-m $f/5$ reflector + CCD
UCAC-4, USNO-A2.0
2011 GA_{62}, 4, 1, 0; 2015 DP_{155}, 4, 1, 0; 2018 EJ_4, 8, 2, 8; *[16, 3, 0∗, 2018/06/01–2018/09/03]*

A50 Andrushivka Astronomical Observatory
Y. Ivashchenko, 3-7 Observatorna Sreet, Andrushivka, Zhytomyr reg, Ukraine [yurets@gluk.org]
Observers D. Kyrylenko, Y. Ivashchenko, O. Gerashchenko, P. Ostafijchuk
Measurer A. Nikolajchuk
0.6-m reflector + CCD
USNO-A2.0
2008 YY_{175}, 3, 1, 0; 2010 DU_{62}, 3, 1, 0; 2010 QO_7, 5, 1, 0; 2011 GN_{90}, 3, 1, 0; *[14, 4, 0∗, 2010/09/18–2012/09/10]*

A53 Peschiera del Garda
R. Bianco, via della repubblica 31, I-37019 Peschiera del Garda, Italy [robertobianco1950@libero.it]
0.25-m Schmidt-Cassegrain + CCD
USNO-A2.0
2011 GA_{62}, 4, 1, 0; 2015 BR_{514}, 3, 1, 0; 2015 DP_{155}, 6, 1, 0; 2018 EJ_4, 10, 1, 0; 2018 LK, 4, 1, 0; 2018 MR_8, 3, 1, 0; 2018 NB, 5, 1, 0; 2018 NE_1, 3, 1, 0; 2018 RC, 9, 1, 0; *[47, 9, 0∗, 2018/06/09–2018/09/08]*

A71 Stixendorf
W. Vollmann, Dammaeckergasse 28/D1/20, A-1210 Wien, Austria [vollmann@gmx.at]
Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann, D. Müller, M. Jaeger
0.3-m $f/4$ reflector + CCD, 0.4-m $f/3.5$ reflector + CCD
UCAC-4
2018 PB, 3, 1, 0; (7968), 3, 1, 0; (69350), 4, 1, 0; (153356), 4, 1, 0; *[14, 4, 0∗, 2018/06/09–2018/08/12]*

A72 Radebeul Observatory
M. Fiedler, Astroclub Radebeul e.V., Auf den Ebenbergen 10a, D-01445 Radebeul, Germany [ccd@astroclub-radebeul.de]
0.35-m $f/4.5$ Maksutov-Newtonian + CCD
USNO-B1.0
2011 GT_{90}, 3, 1, 0; *[3, 1, 0∗, 2013/10/30]*

A77 Observatoire Chante-Perdrix, Dauban
F. Kugel, Chante Perdrix, Dauban, F-04150 Banon, France [fkugel@wanadoo.fr]
Observers C. Rinner, F. Kugel, J.-F. Soulier, J. Nicolas, A. Klotz
0.20-m $f/4$ Newtonian reflector + CCD, 0.06-m $f/5.8$ refractor + CCD, 0.41-m $f/3.3$ reflector + CCD, 0.20-m $f/4$ Schmidt-Cassegrain + CCD
UCAC-4, USNO-SA2.0, Gaia-DR2
2006 WM_{209}, 3, 1, 0; (16083), 3, 1, 0; (122912), 7, 3, 2; (258095), 3, 1, 0; *[16, 4, 0∗, 2010/11/04–2018/09/10]*

A98 Observatory Mazzarot-1, Baran'
S. E. Shurpakov, 1 Korban Street, f.22, BY-211011 Baran', Belarus [shurpakov_A98@tut.by]
0.20-m $f/4$ Schmidt-Newtonian + CCD
UCAC-3, UCAC-4
2015 DP_{155}, 6, 1, 0; 2015 FP_{118}, 9, 1, 0; *[15, 2, 0∗, 2018/06/04–2018/09/14]*

B01 Taunus Observatory, Frankfurt
E. Schwab, Westendstrasse 8, D-63329 Egelsbach, Germany [e.schwab@gsi.de]
Observer R. Kling, E. Schwab
Measurer E. Schwab
0.6-m $f/9.5$ Cassegrain + CCD
UCAC-2
2018 PM_{17}, 4, 1, 0; *[4, 1, 0∗, 2011/09/26]*

B04 OAVdA, Saint-Barthelemy
A. Carbognani, Osservatorio Astronomico della Regione Autonoma Valle d'Aosta, 39 Saint-Barthelemy Lignan, I-11020 Nus (Aosta), Italy [albino@fis.unipr.it]
Observers A. Carbognani, D. Aldarese, A. Geraci, N. Geraci, C. Monti, L. Oliva
0.81-m $f/4.7$ reflector + CCD
Gaia-DR1
2018 RD_1, 8, 1, 0; 2018 RS_1, 3, 1, 0; 2018 RA_2, 3, 1, 0; 2018 RB_6, 3, 1, 0; 2018 RK_6, 3, 1, 0; 2018 RO_7, 3, 1, 0; *[23, 6, 0∗, 2018/09/07–2018/09/14]*

B15 Inastars Observatory, Potsdam (since 2006)
B. Thinius, Moosgloeckchenweg 8, D-14478 Potsdam, Germany [thinius@t-online.de]
0.36-m $f/5.6$ Schmidt-Cassegrain + CCD
URAT-1
2018 RB, 4, 1, 0; *[4, 1, 0∗, 2018/09/03]*

B18 Terskol
S. Barabanov, Institute of Astronomy of RAS, 48 Pyatnitskaya, Moscow 109017, Russia [inasan@burbonz.nalnet.ru]
Observers V. Kozlov, V. Godunova, A. Sergeev, I. Izvekova, A. Simon, I. Sokolov, O. Sergeev

2-m f/8 Ritchey-Chrétien + CCD, 0.6-m f/12.8 Cassegrain + CCD
Gaia-DR1, UCAC-3
2015 DP_{155}, 10, 1, 0; 2015 FP_{118}, 3, 1, 0; 2017 YE_5, 60, 1, 0; (4427), 12, 2, 1; (128513), 5, 1, 0; (144332), 37, 1, 0; (328703), 9, 1, 0; *[136, 7, 0∗, 2018/06/14–2018/08/22]*

B37 Obs. de L' Ametlla del Valles, Barcelona
A. Garrigós S., L' Ametlla del Vallés, E-08480 Barcelona, Spain [ags2es@yahoo.es]
0.51-m f/4 reflector + CCD
PPMXL, Gaia-DR1
2018 NQ, 5, 1, 0; 2018 NV, 8, 1, 0; 2018 NL_4, 2, 1, 0; 2018 OB, 3, 1, 0; 2018 OL, 3, 1, 0; (5519), 3, 1, 0; (64742), 3, 1, 0; *[27, 7, 0∗, 2018/07/08–2018/07/18]*

B38 Santa Mama
S. Trevisan, Castagnoli 127/I, Subbiano, Italy [stelucy3@interfree.it]
0.3-m reflector + CCD
Gaia-DR2
2018 NN_4, 7, 2, 3; (66391), 7, 2, 17; (68950), 3, 1, 0; (105140), 5, 1, 0; (138847), 7, 2, 16; (283729), 2, 1, 0; *[31, 6, 0∗, 2018/07/31–2018/09/04]*

B49 Paus Observatory, Sabadell
J. Camarasa, CC/ de les Paus no. 96 bajos, E-08202 Sabadell (BCN), Spain [jordicamarasa@yahoo.es]
0.30-m f/4 Newtonian reflector + CCD
UCAC-4, PPMXL
2018 MG_7, 4, 1, 0; 2018 NH, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 ND_2, 3, 1, 0; 2018 NL_4, 3, 1, 0; *[16, 5, 0∗, 2018/06/24–2018/07/16]*

B50 Corner Observatory, Durmersheim
J. Linder, Im Eck 1/19, D-76448 Durmersheim, Germany [juergen@cometmillenium.de]
0.20-m f/9.7 Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4
(739), 3, 1, 0; (1627), 4, 1, 0; (1783), 3, 1, 0; (3894), 3, 1, 0; *[13, 4, 0∗, 2018/05/06–2018/07/29]*

B53 Casal Lumbroso, Rome
D. Pivato, Via C. Tincani 29, I-0166 Roma, Italy [danilo.pivato@alice.it]
0.19-m f/4 reflector + CCD, 0.25-m f/5 reflector + CCD
UCAC-4, Gaia-DR2
(26796), 3, 1, 0; *[3, 1, 0∗, 2018/08/12]*

B67 Sternwarte Mirasteilas, Falera
J. De Queiroz, Sternwarte Mirasteilas, CH-7153 Falera, Graubünden, Switzerland [encarna@kns.ch]
0.90-m f/6.7 reflector + CCD
USNO-B1.0
2001 SK_{276}, 3, 1, 0; 2006 OT_9, 3, 1, 0; 2011 GA_{62}, 3, 1, 0; 2011 UA, 3, 1, 0; 2012 UV_{27}, 3, 1, 0; 2013 EP_{41}, 3, 1, 0; 2013 QH_{10}, 3, 1, 0; 2018 GA_5, 3, 1, 0; 2018 KE_3, 6, 2, 7; 2018 SY, 3, 1, 0; (139345), 3, 1, 0; *[36, 11, 0∗, 2018/06/15–2018/09/19]*

B74 Santa Maria de Montmagastrell
J. M. Bosch, carrer Major, 2, E-25250 Bellpuig, Spain [jbosch1@xtec.cat]
0.40-m f/10 Schmidt-Cassegrain + CCD
UCAC-4
2002 NE_{65}, 3, 1, 0; 2002 PJ_{175}, 3, 1, 0; 2005 WZ_{39}, 6, 2, 2; 2005 WK_{203}, 3, 1, 0; 2006 WM_{208}, 3, 1, 0; 2006 YL_{53}, 3, 1, 0; 2008 AW_{55}, 3, 1, 0; 2008 AN_{133}, 6, 2, 1; 2008 SM_{263}, 3, 1, 0; 2009 YG_{22}, 3, 1, 0; 2012 SN_{26}, 6, 2, 1; 2013 QQ_{20}, 3, 1, 0; 2014 RV_{65}, 6, 2, 2; 2014 TW_{29}, 6, 2, 1; 2014 WU_{347}, 3, 1, 0; 2014 WU_{525}, 3, 1, 0; 2015 JL_{11}, 3, 1, 0; 2015 VK_{33}, 6, 2, 2; 2015 XH_{75}, 3, 1, 0; 2016 AB_{26}, 3, 1, 0; 2016 AW_{236}, 3, 1, 0; 2016 CF_{320}, 3, 1, 0; 2017 DG_{96}, 3, 1, 0; 2017 FW_{59}, 3, 1, 0; 2017 SJ_{91}, 9, 3, 16; 2018 NA, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 OD_2 ∗, 6, 2, 1; 2018 PE ∗, 18, 6, 20; 2018 PS_{16} ∗, 18, 6, 38; 2018 PT_{27} ∗, 18, 6, 19; 2018 QN_3 ∗, 13, 4, 16; 2018 QK_5 ∗, 9, 3, 11; 2018 RB_6, 3, 1, 0; 2018 RH_9 ∗, 9, 3, 5; 2018 RH_{22}, 9, 3, 4; 2018 RN_{26} ∗, 10, 3, 4; 2018 RO_{26} ∗, 15, 5, 7; 2018 RP_{26} ∗, 9, 3, 4; 2018 RR_{27} ∗, 6, 2, 3; (47), 6, 2, 29; (137), 3, 1, 0; (230), 6, 2, 2; (2292), 3, 1, 0; (3890), 3, 1, 0; (6249), 3, 1, 0; (10080), 3, 1, 0; (11043), 3, 1, 0; (14155), 3, 1, 0; (14191), 3, 1, 0; (14327), 3, 1, 0; (15060), 3, 1, 0; (19046), 3, 1, 0; (24945), 3, 1, 0; (27497), 3, 1, 0; (28779), 3, 1, 0; (35929), 6, 2, 2; (36848), 3, 1, 0; (38732), 3, 1, 0; (39429), 3, 1, 0; (41568), 3, 1, 0; (41662), 3, 1, 0; (45669), 3, 1, 0; (48396), 3, 1, 0; (53589), 3, 1, 0; (55256), 3, 1, 0; (57333), 6, 2, 2; (58451), 3, 1, 0; (69391), 3, 1, 0; (69967), 3, 1, 0; (71581), 3, 1, 0; (71816), 3, 1, 0; (72041), 3, 1, 0; (72904), 3, 1, 0; (88848), 3, 1, 0; (88889), 3, 1, 0; (89760), 3, 1, 0; (90539), 3, 1, 0; (94969), 3, 1, 0; (98321), 3, 1, 0; (98530), 3, 1, 0; (99640), 3, 1, 0; (101765), 3, 1, 0; (109207), 3, 1, 0; (115285), 3, 1, 0; (115369), 3, 1, 0; (117202), 9, 3, 3; (118262), 3, 1, 0; (124420), 9, 3, 5; (126086), 3, 1, 0; (130596), 3, 1, 0; (130717), 3, 1, 0; (131491), 3, 1, 0; (133421), 3, 1, 0; (140293), 3, 1, 0; (142754), 3, 1, 0; (145148), 3, 1, 0; (146612), 3, 1, 0; (149250), 3, 1, 0; (149602), 3, 1, 0; (152003), 3, 1, 0; (154033), 3, 1, 0; (157909), 3, 1, 0; (161580), 3, 1, 0; (163492), 3, 1, 0; (166605), 3, 1, 0; (166747), 3, 1, 0; (168959), 3, 1, 0; (170274), 6, 2, 1; (171499), 3, 1, 0; (178150), 3, 1, 0; (181758), 3, 1, 0; (186392), 3, 1, 0; (189995), 3, 1, 0; (191456), 3, 1, 0; (194148), 3, 1, 0; (194326), 3, 1, 0; (195051), 3, 1, 0; (195667), 3, 1, 0; (202560), 3, 1, 0; (206997), 6, 2, 1; (207057), 6, 2, 10; (210001), 9, 3, 5; (211533), 3, 1, 0; (211662), 3, 1, 0; (212069), 9, 3, 5; (226046), 6, 2, 1; (227737), 3, 1, 0; (228990), 3, 1, 0; (232387), 3, 1, 0; (232714), 3, 1, 0; (235627), 3, 1, 0; (244676), 3, 1, 0; (250151), 6, 2, 1; (251142), 3, 1, 0; (251608), 3, 1, 0; (252272), 3, 1, 0; (254668), 3, 1, 0; (256330), 3, 1, 0; (258344), 3, 1, 0; (260765), 3, 1, 0; (267634), 3, 1, 0; (271310), 3, 1, 0; (272665), 3, 1, 0; (282387), 3, 1, 0; (284195), 3, 1, 0; (285035), 12, 4, 6; (286013), 3, 1, 0; (288438), 3, 1, 0; (294513), 3, 1, 0; (297867), 6, 2, 1; (298484), 3, 1, 0; (302398), 3, 1, 0; (306208), 3, 1, 0; (307321), 3, 1, 0; (312299), 3, 1, 0; (315905), 3, 1, 0; (319637), 3, 1, 0; (322859), 3, 1, 0; (330003), 3, 1, 0; (350304), 3, 1, 0; (351770), 3, 1, 0; (354029), 6, 2, 1; (354986), 3, 1, 0; (355903), 3, 1, 0; (355993), 3, 1, 0; (356641), 3, 1, 0; (358520), 3, 1, 0; (369576), 6, 2, 3; (375061), 3, 1, 0; (378491), 3, 1, 0; (394796), 3, 1, 0; (405154), 3, 1, 0; (405494), 9, 3, 5; (406241), 3, 1, 0; (407338), 3, 1, 0; (413493), 6, 2, 1; (426396), 6, 2, 1; (430692), 3, 1, 0; (455191), 3, 1, 0; (459292), 3, 1, 0; (462445), 3, 1, 0; (465848), 3, 1, 0; (467702), 3, 1, 0; (468938), 3, 1, 0; (487822), 3, 1, 0; (489899), 3, 1, 0; (493816), 3, 1, 0; (494684), 3, 1, 0; (495460), 6, 2, 1; (495572), 3, 1, 0; *[785, 191, 11∗, 2013/02/14–2018/09/19]*

B92 Chinon
M. Audejean, Place du Général de Gaulle, F-37500 Chinon, France [maurice.audejean@wanadoo.fr]
0.32-m f/6 Newtonian reflector + CCD
UCAC-4
(66391), 10, 1, 0; *[10, 1, 0∗, 2018/06/02]*

B96 Brixiis Observatory, Kruibeke
E. Bryssinck, Eyckensbeekstraat 2, Kruibeke, Belgium [erik.bryssinck@telenet.be]
0.4-m f/3.8 astrograph + CCD
CMC-15, PPMXL, USNO-A2.0, Gaia-DR2
2018 MM_8, 4, 1, 0; (2842), 3, 1, 0; (3149), 4, 1, 0; (3808), 3, 1, 0; (3890), 8, 3, 4; (4395), 3, 1, 0; (5957), 3, 1, 0; (10950), 4, 2, 1; (12614), 6, 2, 1; (14191), 5, 2, 1; (14948), 3, 1, 0; (16037), 2, 1, 0; (19289), 3, 1, 0; (23896), 2, 1, 0; (24700), 3, 1, 0; (24779), 3, 1, 0; (29789), 2, 1, 0; (31942), 2, 1, 0; (34737), 5, 2, 3; (38163), 12, 2, 1; (44556), 5, 2, 16; (48140), 8, 2, 1; (56092), 2, 1, 0; (56184), 5, 2, 1; (66151), 2, 1, 0; (67093), 3, 1, 0; (74461), 2, 1, 0; (81030), 6, 2, 1; (82401), 2, 1, 0; (138373), 2, 1, 0; (145863), 3, 1, 0; (251290), 6, 2, 1; (258095), 4, 2, 1; (373145), 1, 1, 0; *[131, 34, 0∗, 2018/06/04–2018/09/02]*

C10 Maisoncelles
J.-F. Soulier, Maisoncelles, Seine et Marne, France [jean-francois.soulier2@wanadoo.fr]
0.30-m f/3.8 Newtonian reflector + CCD
UCAC-4
(7968), 2, 1, 0; (43113), 2, 1, 0; (46607), 3, 1, 0; (87142), 3, 1, 0; (187838), 2, 1, 0; *[12, 5, 0∗, 2018/06/21–2018/06/22]*

C23 Olmen
A. Diepvens, B-2491 Olmen, Belgium [alfons.diepvens@telenet.be]

0.20-m $f/9$ refractor + CCD
UCAC-4, USNO-A2.0

2010 WC_9, 7, 1, 0; 2011 UA, 12, 3, 16; 2018 LK, 9, 1, 0; 2018 NB, 24, 6, 45; 2018 NQ, 8, 1, 0; 2018 NV, 6, 1, 0; 2018 PK_{23}, 4, 1, 0; (617), 13, 3, 5; (1627), 63, 21, 65; (1996), 3, 1, 0; (2061), 33, 11, 32; (2842), 3, 1, 0; (3890), 3, 1, 0; (4538), 3, 1, 0; (5001), 3, 1, 0; (10141), 3, 1, 0; (14665), 3, 1, 0; (16037), 3, 1, 0; (24974), 3, 1, 0; (26796), 6, 2, 2; (29742), 3, 1, 0; (38163), 3, 1, 0; (43764), 3, 1, 0; (44556), 9, 3, 27; (48140), 3, 1, 0; (54193), 3, 1, 0; (54298), 3, 1, 0; (66391), 49, 8, 34; (73752), 3, 1, 0; (95972), 3, 1, 0; (97821), 3, 1, 0; (132968), 3, 1, 0; (142715), 2, 1, 0; (144332), 70, 5, 8; (184259), 6, 2, 2; (213332), 2, 1, 0; (258095), 3, 1, 0; *[383, 37, 0*, 2018/05/14–2018/09/14]*

C27 Pallerols
A. Jorba, Psje Garcini 3, E-08007 Barcelona, Spain [angel.jorba@gmail.com]
0.36-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR2

2011 GA_{62}, 6, 2, 1; 2018 NN, 2, 1, 0; (1102), 4, 1, 0; (1708), 2, 1, 0; (81499), 3, 1, 0; (87309), 5, 2, 1; (117202), 2, 1, 0; (216689), 6, 2, 1; *[30, 8, 0*, 2018/07/22–2018/08/02]*

C32 Ka-Dar Observatory, TAU Station, Nizhny Arkhyz
S. Korotkiy, Tsimlyanskaya street, 30-137, 109559 Moscow, Russia [tau@ka-dar.ru]
Observer V. Gerke
Measurers S. Korotkiy, D. Chestnov
0.40-m $f/8$ Ritchey-Chrétien + CCD
UCAC-2

2014 GV_{64}, 4, 1, 0; *[4, 1, 0*, 2011/09/19]*

C36 Starry Wanderer Observatory, Baran'
S. Shurpakov, 211011, 1 Korban Street, f. 22, Baran', Belarus [shurpakou_A98@belastro.net]
0.25-m $f/4.7$ Newtonian reflector + CCD, 0.15-m $f/3.2$ Newtonian reflector + CCD
UCAC-4

2015 FP_{118}, 24, 2, 1; 2018 EJ_4, 3, 1, 0; (695), 3, 1, 0; (44556), 8, 1, 0; *[38, 4, 0*, 2018/06/01–2018/09/13]*

C41 MASTER-II Observatory, Kislovodsk
V. Lipunov, 119992 Universitetskiy pr. 13, Sternberg Astronomical Institute, Moscow, Russia [lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, V. Chazov, A. Kuznetsov, D. Zimnukhov, O. Gress, A. Tlatov, V. Senik, D. Dormidontov, A. Parkhomenko, A. Rezaeva
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0

1999 RB_{32}, 6, 1, 0; 2001 OK_{59}, 3, 1, 0; 2005 QW_{97}, 3, 1, 0; 2007 RL_{242}, 3, 1, 0; 2009 QD_{11}, 3, 1, 0; 2011 QS_{11}, 2, 1, 0; 2011 QL_{14}, 4, 1, 0; 2012 FZ_{80}, 2, 1, 0; 2014 UM_{21}, 4, 1, 0; (20), 3, 1, 0; (30), 9, 1, 0; (41), 6, 1, 0; (43), 4, 1, 0; (48), 5, 2, 11; (53), 3, 1, 0; (65), 2, 1, 0; (66), 5, 1, 0; (69), 15, 2, 13; (87), 6, 1, 0; (94), 2, 1, 0; (112), 9, 1, 0; (123), 2, 1, 0; (129), 3, 1, 0; (154), 2, 1, 0; (159), 5, 2, 26; (163), 2, 1, 0; (166), 2, 1, 0; (170), 2, 1, 0; (172), 6, 1, 0; (173), 5, 1, 0; (186), 3, 1, 0; (188), 2, 1, 0; (199), 2, 1, 0; (204), 3, 1, 0; (209), 5, 1, 0; (213), 4, 1, 0; (214), 5, 2, 17; (219), 7, 3, 8; (224), 6, 2, 5; (226), 3, 1, 0; (238), 7, 2, 47; (240), 8, 2, 1; (252), 3, 1, 0; (254), 2, 1, 0; (264), 2, 1, 0; (270), 4, 2, 5; (291), 3, 1, 0; (293), 6, 1, 0; (300), 5, 2, 6; (308), 3, 1, 0; (312), 6, 2, 14; (324), 3, 1, 0; (336), 4, 1, 0; (346), 6, 1, 0; (348), 7, 2, 1; (366), 6, 1, 0; (374), 10, 2, 35; (376), 5, 1, 0; (384), 2, 1, 0; (403), 2, 1, 0; (420), 2, 1, 0; (421), 2, 1, 0; (431), 4, 1, 0; (432), 2, 1, 0; (434), 2, 1, 0; (435), 3, 1, 0; (443), 4, 1, 0; (454), 4, 2, 2; (462), 7, 3, 8; (465), 5, 1, 0; (469), 2, 1, 0; (476), 4, 1, 0; (484), 3, 1, 0; (506), 2, 1, 0; (507), 10, 2, 35; (513), 6, 2, 2; (532), 7, 3, 28; (544), 6, 2, 20; (558), 2, 1, 0; (560), 8, 4, 17; (564), 9, 1, 0; (565), 2, 1, 0; (568), 6, 1, 0; (571), 6, 2, 12; (583), 2, 1, 0; (590), 4, 1, 0; (601), 6, 2, 4; (611), 3, 1, 0; (615), 5, 2, 14; (623), 3, 1, 0; (628), 4, 2, 14; (632), 5, 1, 0; (633), 9, 1, 0; (652), 3, 1, 0; (656), 4, 1, 0; (658), 3, 1, 0; (669), 6, 1, 0; (673), 5, 2, 6; (674), 4, 1, 0; (677), 2, 1, 0; (679), 3, 1, 0; (680), 4, 1, 0; (704), 4, 1, 0; (723), 3, 1, 0; (727), 5, 2, 3; (733), 2, 1, 0; (734), 5, 1, 0; (738), 7, 3, 17; (743), 8, 2, 13; (754), 3, 1, 0; (758), 7, 3, 20; (802), 3, 1, 0; (804), 3, 1, 0; (814), 2, 1, 0; (828), 2, 1, 0; (831), 4, 1, 0; (837), 2, 1, 0; (851), 3, 1, 0; (860), 5, 1, 0; (862), 8, 2, 53; (877), 3, 1, 0; (879), 2, 1, 0; (882), 2, 1, 0; (895), 4, 2, 7; (909), 3, 1, 0; (910), 3, 1, 0; (915), 7, 3, 14; (926), 2, 1, 0; (945), 2, 1, 0; (951), 3, 1, 0; (956), 3, 1, 0; (964), 2, 1, 0; (965), 2, 1, 0; (972), 3, 1, 0; (973), 6, 1, 0; (983), 3, 1, 0; (984), 3, 1, 0; (986), 2, 1, 0; (987), 2, 1, 0; (988), 2, 1, 0; (989), 2, 1, 0; (992), 3, 1, 0; (996), 5, 1, 0; (998), 3, 1, 0; (1003), 11, 2, 13; (1006), 2, 1, 0; (1010), 6, 1, 0; (1027), 5, 1, 0; (1033), 5, 1, 0; (1037), 2, 1, 0; (1045), 5, 1, 0; (1053), 5, 1, 0; (1078), 6, 1, 0; (1080), 8, 2, 14; (1085), 5, 1, 0; (1093), 2, 1, 0; (1100), 3, 1, 0; (1106), 2, 1, 0; (1115), 3, 1, 0; (1124), 2, 1, 0; (1190), 5, 2, 7; (1206), 2, 1, 0; (1209), 4, 1, 0; (1211), 2, 1, 0; (1212), 3, 1, 0; (1236), 2, 1, 0; (1239), 2, 1, 0; (1245), 7, 3, 28; (1246), 2, 1, 0; (1249), 5, 1, 0; (1250), 2, 1, 0; (1271), 3, 1, 0; (1274), 2, 1, 0; (1276), 3, 1, 0; (1277), 2, 1, 0; (1283), 3, 1, 0; (1292), 5, 1, 0; (1296), 6, 2, 1; (1319), 4, 1, 0; (1344), 2, 1, 0; (1345), 2, 1, 0; 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C42 Xingming Observatory, Mt. Nanshan

X. Gao, Urumqi No. 1 Middle School, XinJiang, China [webmaster@xjltp.com]
Observers X. Gao, Q.-Z. Ye, M.-T. Hui, G. Sun
0.6-m $f/8$ Ritchey-Chrétien + CCD, 0.5-m $f/4$ reflector + CCD, 0.36-m $f/6.9$ Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR2, USNO-B1.0

2007 JV_{46}, 3, 1, 0; 2007 RC_{330}, 3, 1, 0; 2011 BS_{169}, 3, 1, 0; 2011 YL_4, 6, 2, 2; 2011 YU_{80}, 3, 1, 0; 2012 YA_{12}, 3, 1, 0; 2013 PC_{84}, 3, 1, 0; 2013 RQ_{108}, 3, 1, 0; 2013 TO_{171}, 3, 1, 0; 2013 XB_{28}, 4, 1, 0; 2014 OH_7, 2, 1, 0; 2014 QE_{427}, 3, 1, 0; 2015 QQ_{11}, 3, 1, 0; 2016 LB_{66}, 3, 1, 0; *[45, 14, 0*, 2016/11/25–2018/09/15]*

C43 Hoyerswerda

P. Lindner, Ringstraße 21, D-02977 Hoyerswerda, Germany [peter.lindner@arcor.de]
0.30-m $f/6.3$ Schmidt-Cassegrain + CCD
URAT-1, Gaia-DR2

2018 NU_3, 3, 1, 0; 2018 NF_4, 2, 1, 0; 2018 QL, 4, 1, 0; 2018 QF_1, 4, 1, 0; 2018 QG_1, 4, 1, 0; (31979), 2, 1, 0; (44556), 2, 1, 0; (48140), 2, 1, 0; (78861), 2, 1, 0; (81030), 2, 1, 0; (117768), 2, 1, 0; (220633), 2, 1, 0; (251228), 2, 1, 0; *[33, 13, 0*, 2018/06/07–2018/09/15]*

C47 Nonndorf

G. Dangl, Nonndorf 12, A-3830, Austria [gerhard@dangl.at]
0.25-m $f/4.8$ reflector + CCD
Gaia-DR2, URAT-1

2015 QM_3, 3, 1, 0; 2018 MB_7, 5, 1, 0; 2018 MR_8, 5, 1, 0; 2018 NA, 6, 1, 0; 2018 NE_1, 5, 1, 0; 2018 NL_4, 4, 1, 0; 2018 OY, 4, 1, 0; 2018 PW_7, 4, 1, 0; 2018 PJ_{10}, 5, 1, 0; 2018 PN_{20}, 4, 1, 0; 2018 PO_{23}, 4, 1, 0; 2018 PK_{24}, 5, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 RQ_2, 5, 1, 0; 2018 RT_2, 5, 1, 0; 2018 RF_8, 4, 1, 0; 2018 SD_1, 5, 1, 0; (5833), 4, 1, 0; (44556), 5, 1, 0; (95972), 4, 1, 0; *[95, 22, 0*, 2018/07/02–2018/09/18]*

C48 Sayan Solar Observatory, Irkutsk

Y. Karavaev, 664033, PO Box 291, Irkutsk, Russia [y-kar@bk.ru]
Observer Y. Karavaev
Measurers M. Mishina, T. Tsukker
1.6-m $f/4.4$ Ritchey-Chrétien + CCD
USNO-B1.0

2017 SL_{129} *, 4, 1, 0; 2017 SM_{129} *, 4, 1, 0; 2017 SN_{129} *, 4, 1, 0; 2017 SO_{129} *, 5, 1, 0; 2017 SP_{129} *, 4, 1, 0; 2017 SQ_{129} *, 5, 1, 0; 2017 SR_{129} *, 5, 1, 0; 2017 SS_{129} *, 5, 1, 0; *[36, 8, 8*, 2017/09/18]*

C51 WISE

A. K. Mainzer, Dept. of Astrophysics, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109, U.S.A. [amanda.k.mainzer@jpl.nasa.gov]
Measurers A. K. Mainzer, J. M. Bauer, T. Grav, J. R. Masiero, J. W. Dailey, R. M. Cutri, E. L. Wright, S. Sonnett, E. Kramer, J. P. Chesley
http://wise.ssl.berkeley.edu/mission_sci.html
2MASS

1993 BJ_9, 10, 2, 1; 1994 RE_3, 2, 1, 0; 1995 KG_1, 2, 1, 0; 1995 SL_{87}, 2, 1, 0; 1997 SK_7, 6, 1, 0; 1997 UE_{17}, 16, 3, 1; 1997 WF_{13}, 2, 1, 0; 1998 SD_{151}, 2, 1, 0; 1998 TX_{21}, 10, 2, 4; 1998 VP_{40}, 2, 1, 0; 1998 YP_{15}, 6, 1, 0; 1999 AP_{30}, 2, 1, 0; 1999 FN_{64}, 18, 3, 1; 1999 RV_{29}, 4, 1, 0; 1999 TT_{46}, 4, 2, 1; 1999 VU_{99}, 2, 1, 0; 2000 CX_{68}, 16, 3, 1; 2000 PF_3, 12, 2, 1; 2000 RS_{77}, 2, 1, 0; 2000 SD_{11}, 6, 2, 1; 2000 SH_{21}, 2, 1, 0; 2000 SC_{131}, 2, 1, 0; 2000 SE_{135}, 2, 1, 0; 2000 YM_{141}, 10, 2, 1; 2001 DY_{110}, 4, 1, 0; 2001 FW_{29}, 12, 2, 1; 2001 FH_{180}, 2, 1, 0; 2001 FP_{197}, 14, 2, 1; 2001 KA_{55}, 2, 1, 0; 2001 OD_{40}, 4, 2, 1; 2001 OE_{59}, 2, 1, 0; 2001 PU_9, 24, 3, 2; 2001 PG_{23}, 14, 2, 1; 2001 QR_{92}, 18, 3, 1; 2001 QC_{265}, 2, 1, 0; 2001 RM_8, 2, 1, 0; 2001 RK_{23}, 14, 2, 1; 2001 RJ_{51}, 36, 4, 2; 2001 RH_{103}, 10, 2, 1; 2001 RL_{134}, 20, 3, 1; 2001 ST_{92}, 2, 1, 0; 2001 SC_{170}, 26, 3, 2; 2001 SC_{201}, 20, 3, 1; 2001 ST_{216}, 16, 1, 0; 2001 SH_{224}, 14, 3, 2; 2001 SF_{295}, 2, 1, 0; 2001 SE_{302}, 30, 3, 1; 2001 SN_{314}, 16, 2, 1; 2001 SA_{323}, 2, 1, 0; 2001 SH_{344}, 24, 5, 5; 2001 SK_{351}, 12, 3, 1; 2001 TR_{112}, 4, 1, 0; 2001 TT_{157}, 4, 2, 2; 2001 TJ_{173}, 6, 1, 0; 2001 TR_{177}, 4, 1, 0; 2001 TG_{237}, 30, 3, 1; 2001 TC_{260}, 22, 5, 4; 2001 TA_{262}, 4, 1, 0; 2001 TG_{263}, 4, 2, 1; 2001 TN_{263}, 12, 4, 167; 2001 UN_{41}, 12, 3, 1; 2001 UQ_{232}, 6, 2, 1; 2001 US_{232}, 2, 1, 0; 2001 VL_{22}, 6, 2, 1; 2001 VQ_{130}, 2, 1, 0; 2001 XC_{177}, 36, 3, 2; 2001 XP_{261}, 4, 1, 0; 2001 YS_{92}, 4, 1, 0; 2001 YE_{93}, 4, 1, 0; 2001 YO_{162}, 6, 2, 1; 2002 AT_{194}, 6, 1, 0; 2002 AT_{195}, 2, 1, 0; 2002 CY, 2, 1, 0; 2002 CJ_{50}, 2, 1, 0; 2002 CR_{89}, 20, 3, 1; 2002 CP_{318}, 2, 1, 0; 2002 DC_{14}, 2, 1, 0; 2002 DX_{20}, 8, 2, 1; 2002 EY_{22}, 2, 1, 0; 2002 ER_{106},

10, 1, 0; 2002 EV_{163}, 2, 1, 0; 2002 GS_{8}, 4, 2, 1; 2002 GA_{63}, 4, 2, 1; 2002 GQ_{178}, 4, 2, 1; 2002 GM_{191}, 4, 2, 1; 2002 GU_{191}, 2, 1, 0; 2002 HT_{14}, 2, 1, 0; 2002 JE_{14}, 4, 1, 0; 2002 JC_{68}, 86, 12, 17; 2002 JQ_{151}, 2, 1, 0; 2002 LC_{46}, 16, 2, 1; 2002 NG_{58}, 14, 2, 1; 2002 NE_{64}, 2, 1, 0; 2002 NS_{65}, 14, 3, 1; 2002 NZ_{71}, 2, 1, 0; 2002 NP_{72}, 14, 3, 1; 2002 NO_{76}, 2, 1, 0; 2002 NP_{76}, 10, 2, 1; 2002 NO_{79}, 8, 3, 1; 2002 NM_{81}, 4, 1, 0; 2002 OX_{25}, 6, 3, 2; 2002 OO_{36}, 14, 3, 1; 2002 PK_{10}, 2, 1, 0; 2002 PR_{181}, 14, 3, 1; 2002 PW_{190}, 20, 3, 2; 2002 PE_{192}, 12, 2, 1; 2002 PH_{194}, 22, 3, 1; 2002 PO_{194}, 2, 1, 0; 2002 PN_{195}, 12, 2, 1; 2002 PT_{196}, 14, 3, 1; 2002 PV_{202}, 10, 1, 0; 2002 PN_{203}, 6, 2, 1; 2002 QS_{10}, 2, 1, 0; 2002 QY_{15}, 18, 3, 1; 2002 QE_{46}, 4, 2, 1; 2002 QV_{59}, 8, 2, 1; 2002 QE_{60}, 2, 1, 0; 2002 QK_{87}, 2, 1, 0; 2002 QD_{88}, 2, 1, 0; 2002 QX_{94}, 14, 3, 1; 2002 QU_{97}, 14, 3, 1; 2002 QO_{100}, 26, 3, 1; 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(521831), 16, 3, 1; (521935), 10, 2, 1; (522022), 12, 2, 1; (522106), 8, 3, 1; (522107), 4, 1, 0; (522111), 14, 2, 1; (522118), 8, 1, 0; (522159), 12, 2, 1; (522213), 10, 2, 1; (522225), 12, 2, 1; (522276), 2, 1, 0; (522302), 24, 3, 1; (522320), 12, 2, 1; (522342), 10, 2, 1; (522343), 12, 2, 1; (522379), 10, 1, 0; (522431), 4, 1, 0; (522447), 14, 3, 1; (522506), 10, 2, 1; (522537), 14, 2, 1; (522545), 8, 1, 0; (522644), 6, 2, 1; (522651), 14, 2, 1; (522685), 2, 1, 0; (522690), 20, 3, 1; (522715), 24, 3, 1; (522730), 16, 3, 1; (522745), 12, 2, 1; (522862), 12, 2, 1; (522885), 2, 1, 0; (522910), 14, 2, 1; (522990), 2, 1, 0; (523054), 10, 2, 1; (523081), 8, 2, 1; (523151), 10, 2, 1; (523163), 2, 1, 0; (523250), 10, 2, 1; (523298), 4, 1, 0; (523346), 10, 3, 1; (523351), 10, 2, 1; (523360), 20, 3, 2; (523373), 10, 2, 1; (523405), 2, 1, 0; (523456), 4, 2, 1; (523459), 2, 1, 0; (523460), 2, 1, 0; (523461), 12, 3, 1; (523465), 2, 1, 0; (523495), 10, 2, 1; (523581), 10, 3, 1; *[716152, 87274, 25*, 2010/01/07–2018/09/19]*

C77 Bernezzo Observatory

A. Mantero, Via Maggiori 28, Bernezzo Italy [manteandrea@libero.it]

0.25-m $f/4.0$ reflector + CCD

UCAC-4

2001 SC_{170}, 3, 1, 0; 2015 BR_{514}, 3, 1, 0; 2018 EJ_4, 3, 1, 0; 2018 LE_3, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 MB_7, 3, 1, 0; 2018 NH, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 NG_4, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 RC, 3, 1, 0; 2018 RY, 4, 1, 0; 2018 RA_1, 3, 1, 0; 2018 RD_1, 4, 1, 0; 2018 RP_8, 3, 1, 0; *[50, 16, 0*, 2018/05/31–2018/09/15]*

C85 Observatorio Cala d'Hort, Ibiza

I. de la Cueva, Abad y Lasierra 58Bis, Ibiza 07800, Spain
[ignaciodelacueva@redfarma.org]

0.50-m $f/3.6$ reflector + CCD

UCAC-2

2012 VW_{115}, 6, 1, 0; 2015 FD_{217}, 9, 2, 2; *[15, 2, 0*, 2015/01/24–2016/03/07]*

C94 MASTER-II Observatory, Tunka

V. Lipunov, SAI, Universitetskiy pr.13, 119992 Moscow, Russia
[lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, V. Chazov, A. Kuznetsov, O. Gress, D. Zimnukhov, S. Yazev, N. Budnev, A. Rezaeva

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

2014 NX_{63}, 2, 1, 0; 2014 RP_{63}, 2, 1, 0; (132), 2, 1, 0; (172), 2, 1, 0; (205), 3, 1, 0; (222), 3, 1, 0; (549), 4, 1, 0; (557), 3, 1, 0; (564), 6, 2, 3; (583), 2, 1, 0; (623), 6, 1, 0; (652), 5, 1, 0; (816), 3, 1, 0; (979), 4, 2, 1; (983), 3, 1, 0; (1176), 2, 1, 0; (1202), 3, 1, 0; (1240), 2, 1, 0; (1719), 3, 1, 0; (1901), 1, 1, 0; (1909), 3, 1, 0; (2014), 2, 1, 0; (2361), 3, 1, 0; (2393), 6, 1, 0; (2497), 3, 1, 0; (2545), 6, 2, 1; (2609), 2, 1, 0; (2726), 3, 1, 0; (2847), 3, 1, 0; (2946), 3, 1, 0; (2972), 3, 1, 0; (3259), 3, 1, 0; (3514), 3, 1, 0; (3592), 3, 1, 0; (3625), 3, 1, 0; (3884), 2, 1, 0; (3933), 3, 1, 0; (4370), 3, 1, 0; (4523), 2, 1, 0; (4976), 3, 1, 0; (5052), 3, 1, 0; (5229), 3, 1, 0; (5396), 3, 1, 0; (5402), 2, 1, 0; (5621), 2, 1, 0; (5679), 7, 1, 0; (5790), 3, 1, 0; (5824), 2, 1, 0; (5968), 2, 1, 0; (6249), 6, 1, 0; (6379), 3, 1, 0; (6521), 2, 1, 0; (6625), 2, 1, 0; (7087), 4, 1, 0; (7419), 2, 1, 0; (7485), 3, 1, 0; (7618), 3, 1, 0; (7684), 3, 1, 0; (7808), 2, 1, 0; (7904), 2, 1, 0; (7920), 2, 1, 0; (7971), 2, 1, 0; (8055), 2, 1, 0; (8082), 2, 1, 0; (8178), 2, 1, 0; (8273), 2, 1, 0; (8379), 3, 1, 0; (8383), 3, 1, 0; (8545), 3, 1, 0; (8665), 2, 1, 0; (8991), 2, 1, 0; (9201), 2, 1, 0; (9494), 3, 1, 0; (9573), 3, 1, 0; (9730), 2, 1, 0; (10039), 3, 1, 0; (10171), 11, 1, 0; (10228), 2, 1, 0; (10271), 3, 1, 0; (10611), 2, 1, 0; (10623), 3, 1, 0; (10794), 3, 1, 0; (11055), 6, 1, 0; (11093), 2, 1, 0; (11321), 2, 1, 0; (11641), 2, 1, 0; (12090), 3, 1, 0; (12194), 3, 1, 0; (12684), 2, 1, 0; (13985), 3, 1, 0; (14121), 4, 2, 1; (14230), 2, 1, 0; (14500), 4, 1, 0; (14578), 3, 1, 0; (15056), 3, 1, 0; (15150), 3, 1, 0; (15273), 2, 1, 0; (15274), 2, 1, 0; (15283), 3, 1, 0; (15425), 4, 1, 0; (15771), 3, 1, 0; (16057), 4, 1, 0; (17153), 2, 1, 0; (17374), 2, 1, 0; (17435), 2, 1, 0; (17669), 3, 1, 0; (17818), 2, 1, 0; (18148), 3, 1, 0; (18527), 2, 1, 0; (18807), 2, 1, 0; (19043), 2, 1, 0; (19131), 2, 1, 0; (19309), 2, 1, 0; (19613), 2, 1, 0; (20270), 3, 1, 0; (20392), 4, 2, 60; (21416), 2, 1, 0; (21845), 2, 1, 0; (22804), 3, 1, 0; (22936), 2, 1, 0; (24042), 2, 1, 0; (25276), 2, 1, 0; (25411), 6, 1, 0; (26168), 2, 1, 0; (26842), 2, 1, 0; (26967), 6, 2, 1; (27153), 6, 1, 0; (27616), 2, 1, 0; (28252), 2, 1, 0; (28325), 2, 1, 0; (28818), 4, 2, 1; (28861), 2, 1, 0; (29443), 2, 1, 0; (30448), 2, 1, 0; (30459), 2, 1, 0; (30472), 2, 1, 0; (30541), 2, 1, 0; (30542), 2, 1, 0; (30597), 2, 1, 0; (30636), 2, 1, 0; (30696), 2, 1, 0; (31439), 1, 1, 0; (31569), 2, 1, 0; (31583), 2, 1, 0; (32230), 2, 1, 0; (32991), 2, 1, 0; (33244), 2, 1, 0; (33557), 3, 1, 0; (33855), 3, 1, 0; (36115), 3, 1, 0; (36369), 2, 1, 0; (36623), 2, 1, 0; (36973), 2, 1, 0; (38564), 2, 1, 0; (38631), 2, 1, 0; (38691), 4, 1, 0; (38786), 3, 1, 0; (39473), 2, 1, 0; (40326), 2, 1, 0; (40520), 3, 1, 0; (41704), 2, 1, 0; (42492), 2, 1, 0; (43402), 2, 1, 0; (43800), 5, 2, 1; (44005), 2, 1, 0; (44011), 2, 1, 0; (44455), 2, 1, 0; (45122), 2, 1, 0; (45572), 2, 1, 0; (46241), 2, 1, 0; (46346), 2, 1, 0; (46725), 3, 1, 0; (47092), 3, 1, 0; (47464), 4, 1, 0; (47561), 2, 1, 0; (47689), 2, 1, 0; (49647), 2, 1, 0; (51258), 2, 1, 0; (51529), 3, 1, 0; (51757), 2, 1, 0; (51913), 2, 1, 0; (51968), 2, 1, 0; (52207), 3, 1, 0; (52390), 4, 2, 1; (52585), 3, 1, 0; (53433), 2, 1, 0; (53458), 2, 1, 0; (54240), 2, 1, 0; (54420), 3, 1, 0; (54526), 2, 1, 0; (54896), 2, 1, 0; (54984), 2, 1, 0; (55182), 2, 1, 0; (55225), 2, 1, 0; (55398), 2, 1, 0; (55624), 6, 1, 0; (55734), 3, 1, 0; (56160), 2, 1, 0; (56195), 2, 1, 0; (57881), 2, 1, 0; (58448), 2, 1, 0; (59592), 2, 1, 0; (59621), 2, 1, 0; (60635), 3, 1, 0; (61601), 2, 1, 0; (62035), 2, 1, 0; (62574), 4, 1, 0; (63517), 2, 1, 0; (63657), 2, 1, 0; (63673), 2, 1, 0; (63784), 2, 1, 0; (63845), 2, 1, 0; (63987), 2, 1, 0; (64074), 2, 1, 0; (66313), 2, 1, 0; (66525), 2, 1, 0; (66774), 2, 1, 0; (67530), 2, 1, 0;

(67535), 3, 1, 0; (68912), 1, 1, 0; (68950), 2, 1, 0; (69473), 2, 1, 0; (69699), 2, 1, 0; (71450), 2, 1, 0; (72883), 2, 1, 0; (73051), 2, 1, 0; (73481), 2, 1, 0; (73542), 1, 1, 0; (75640), 1, 1, 0; (75970), 2, 1, 0; (77715), 2, 1, 0; (77864), 2, 1, 0; (77879), 2, 1, 0; (78687), 2, 1, 0; (80329), 4, 1, 0; (80462), 2, 1, 0; (81030), 5, 1, 0; (81592), 2, 1, 0; (81797), 2, 1, 0; (81804), 2, 1, 0; (82356), 2, 1, 0; (82537), 4, 1, 0; (82854), 2, 1, 0; (83136), 2, 1, 0; (83138), 2, 1, 0; (83909), 2, 1, 0; (84305), 2, 1, 0; (84512), 2, 1, 0; (84672), 2, 1, 0; (85047), 2, 1, 0; (85701), 2, 1, 0; (85828), 2, 1, 0; (86936), 2, 1, 0; (88027), 2, 1, 0; (88466), 2, 1, 0; (88538), 2, 1, 0; (88629), 2, 1, 0; (89270), 2, 1, 0; (89272), 3, 1, 0; (90330), 2, 1, 0; (91007), 2, 1, 0; (93898), 2, 1, 0; (94942), 2, 1, 0; (95988), 6, 3, 4; (97677), 2, 1, 0; (98128), 2, 1, 0; (98568), 2, 1, 0; (98637), 2, 1, 0; (98794), 2, 1, 0; (99320), 2, 1, 0; (100480), 2, 1, 0; (102433), 2, 1, 0; (103329), 2, 1, 0; (104634), 2, 1, 0; (105114), 4, 2, 60; (105271), 2, 1, 0; (106417), 2, 1, 0; (109268), 2, 1, 0; (109411), 2, 1, 0; (109554), 2, 1, 0; (111831), 3, 1, 0; (112442), 2, 1, 0; (116936), 2, 1, 0; (118801), 2, 1, 0; (123277), 2, 1, 0; (124680), 2, 1, 0; (127571), 2, 1, 0; (130572), 2, 1, 0; (135450), 2, 1, 0; (145410), 2, 1, 0; (146544), 2, 1, 0; (150548), 2, 1, 0; (159487), 4, 2, 1; (159779), 4, 1, 0; (160185), 2, 1, 0; (160732), 2, 1, 0; (162168), 2, 1, 0; (162540), 2, 1, 0; (163562), 2, 1, 0; (163600), 2, 1, 0; (163616), 2, 1, 0; (164661), 2, 1, 0; (164967), 2, 1, 0; (165704), 2, 1, 0; (166723), 2, 1, 0; (167671), 2, 1, 0; (168484), 2, 1, 0; (169201), 2, 1, 0; (170156), 2, 1, 0; (170541), 2, 1, 0; (171488), 2, 1, 0; (179859), 1, 1, 0; (191886), 2, 1, 0; (195665), 2, 1, 0; (196672), 2, 1, 0; (200331), 2, 1, 0; (200560), 2, 1, 0; (200721), 2, 1, 0; (200882), 2, 1, 0; (203444), 2, 1, 0; (203462), 2, 1, 0; (206345), 4, 1, 0; (206922), 2, 1, 0; (213290), 2, 1, 0; (216563), 2, 1, 0; (218691), 2, 1, 0; (230996), 2, 1, 0; (234195), 2, 1, 0; (238432), 2, 1, 0; (243660), 2, 1, 0; (246917), 2, 1, 0; (247590), 2, 1, 0; (252283), 2, 1, 0; (258233), 2, 1, 0; (264587), 2, 1, 0; (270443), 2, 1, 0; (272377), 2, 1, 0; (282657), 3, 1, 0; (285912), 2, 1, 0; (288626), 2, 1, 0; (307379), 2, 1, 0; (309220), 2, 1, 0; (317060), 2, 1, 0; (322792), 2, 1, 0; (322847), 2, 1, 0; (326027), 2, 1, 0; (327010), 2, 1, 0; (425100), 2, 1, 0; *[862, 348, 0∗, 2018/05/30–2018/09/16]*

C95 SATINO Remote Observatory, Haute Provence

D. Husar, Himmelsmoor 18, 22397 Hamburg, Germany [husar.d@gmx.de]
Observers J. Jahn, T. Kessler
0.60-m $f/3.2$ Newtonian reflector + CCD
UCAC-4, Gaia-DR2

1995 SM_{90}, 3, 1, 0; 1996 TY_{36}, 4, 1, 0; 1998 SD_9, 3, 1, 0; 1999 RB_{32}, 4, 1, 0; 2001 SC_{170}, 3, 1, 0; 2001 SK_{276}, 3, 1, 0; 2002 OS_4, 3, 1, 0; 2005 RB, 3, 1, 0; 2006 SD_{424}, 4, 1, 0; 2006 UJ_{365}, 3, 1, 0; 2009 ET_{32}, 5, 1, 0; 2009 QJ_9, 2, 1, 0; 2011 GA_{62}, 7, 2, 5; 2011 UA, 3, 1, 0; 2012 OD_1, 3, 1, 0; 2012 UV_{27}, 3, 1, 0; 2013 EP_{41}, 4, 1, 0; 2014 JD_{78}, 3, 1, 0; 2015 AX_{16}, 4, 1, 0; 2015 FP_{118}, 13, 2, 2; 2015 OH, 3, 1, 0; 2015 SW_6, 3, 1, 0; 2016 HP_6, 3, 1, 0; 2016 NF_{23}, 4, 1, 0; 2018 GA_5, 3, 1, 0; 2018 KT, 3, 1, 0; 2018 KE_3, 8, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LF_5, 4, 1, 0; 2018 LO_5, 3, 1, 0; 2018 MB_7, 5, 1, 0; 2018 MG_7, 29, 1, 0; 2018 MM_8, 4, 1, 0; 2018 NB, 5, 1, 0; 2018 NH, 6, 2, 1; 2018 NP, 24, 1, 0; 2018 NV, 5, 1, 0; 2018 ND_2, 3, 1, 0; 2018 NV_2, 6, 1, 0; 2018 NU_3, 3, 1, 0; 2018 NF_4, 3, 1, 0; 2018 NG_4, 5, 1, 0; 2018 NL_4, 3, 1, 0; 2018 PL_9, 3, 1, 0; 2018 PL_{10}, 4, 1, 0; 2018 PJ_{22}, 4, 1, 0; 2018 PO_{22}, 3, 1, 0; 2018 PO_{23}, 4, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QV_1, 4, 1, 0; 2018 RA, 3, 1, 0; 2018 RB, 3, 1, 0; 2018 RD_5, 3, 1, 0; 2018 RU_8, 4, 1, 0; 2018 SC, 2, 1, 0; 2018 SV, 4, 1, 0; (719), 9, 2, 5; (1627), 9, 2, 5; (1865), 3, 1, 0; (1981), 3, 1, 0; (2061), 4, 1, 0; (3552), 3, 1, 0; (4183), 6, 1, 0; (5786), 3, 1, 0; (6228), 15, 1, 0; (6456), 5, 1, 0; (7889), 7, 1, 0; (11500), 2, 1, 0; (13553), 12, 2, 5; (14083), 5, 1, 0; (15745), 16, 2, 5; (24321), 5, 1, 0; (41326), 3, 1, 0; (45428), 3, 1, 0; (50616), 5, 1, 0; (65259), 3, 1, 0; (65996), 4, 1, 0; (66391), 6, 1, 0; (68950), 6, 1, 0; (95606), 3, 1, 0; (103082), 3, 1, 0; (144332), 7, 1, 0; (184292), 3, 1, 0; *[418, 84, 0∗, 2013/10/03–2018/09/17]*

C97 Al-Fulaij Observatory, Oman

M. Al-Bussaidi, P.O. Box 392, Seeb Airport, P.C. - 111, Sultanate of Oman
[mbussaid@omantel.net.om]
Observers M. Al-Bussaidi, A. Al-Haji
0.61-m $f/7.8$ reflector + CCD
UCAC-4

2005 RB, 4, 1, 0; 2007 RX_{19}, 2, 1, 0; 2015 FP_{118}, 4, 1, 0; 2018 KE_3, 11, 3, 12; 2018 LQ_2, 2, 1, 0; (60), 4, 1, 0; (719), 6, 2, 5; (1627), 13, 4, 14; (1865), 4, 1, 0; (2100), 1, 1, 0; (6456), 8, 2, 5; (8133), 4, 1, 0; (12711), 8, 2, 1; (13553), 12, 3, 11; (17274), 16, 4, 19; (17511), 5, 2, 5; (18109), 10, 3, 7; (21277), 3, 1, 0; (31345), 3, 1, 0; (86324), 4, 1, 0; (105140), 2, 1, 0; (115052), 8, 2, 6; (134340), 2, 1, 0; (144332), 11, 3, 6; (162168), 4, 1, 0; (358744), 8, 2, 7; (418929), 12, 3, 7; (438429), 11, 4, 11; (481394), 4, 1, 0; (518635), 1, 1, 0; *[187, 30, 0∗, 2018/08/29–2018/09/18]*

D00 ISON-Kislovodsk Observatory

D. Chestnov, st. Svobody, 35/22, RU-125362 Moscow, Russia [chestd@gmail.com]
Observers D. Ivanov, D. Chestnov, V. Nevski, V. Linkov
Measurers V. Nevski
0.4-m $f/2.3$ reflector + CCD
UCAC-3

1996 VJ_{12}, 4, 1, 0; 2007 VA_{342}, 3, 1, 0; 2012 KB_{53}, 4, 1, 0; 2017 HB_{44}, 4, 1, 0; 2018 RT_2, 8, 2, 12; 2018 RD_{22}, 4, 1, 0; *[27, 6, 0∗, 2012/07/20–2014/11/22]*

D03 Rantiga Osservatorio, Tincana

M. Żołnowski, Godebskiego 55a, Cracow, Poland [michael.zolnowski@gmail.com]
Observers M. Żołnowski, M. Kusiak
0.4-m $f/3.8$ reflector + CCD.
UCAC-3

2005 TX_{199}, 4, 1, 0; 2006 UL_{364}, 3, 1, 0; 2006 WT_{208}, 4, 1, 0; 2007 AC_{32}, 2, 1, 0; 2007 TS_{458}, 4, 1, 0; 2009 OB_{26}, 3, 1, 0; 2011 AM_{83}, 4, 1, 0; 2012 QF_{54}, 4, 1, 0; 2012 QH_{54}, 4, 1, 0; *[32, 9, 0∗, 2012/08/14–2014/12/21]*

D08 Ghezz Observatory, Leontica

I. Cervini, Via Fontanella 1, CH-6932 Breganzona, Switzerland
[ivaldo.cervini@astropix.it]
0.15-m $f/5.0$ Maksutov-Cassegrain + CCD
UCAC-4

(2105), 3, 1, 0; *[3, 1, 0∗, 2018/08/24]*

D20 Zadko Observatory, Wallingup Plain

M. Todd, 15 Conifer Street, Maddington, WA 6109, Australia
[sionnagh@gmail.com]
1.0-m $f/4.0$ Cassegrain + CCD
Tycho-2, USNO-A2.0

2007 VG_{341}, 5, 1, 0; *[5, 1, 0∗, 2009/05/29]*

D29 Purple Mountain Observatory, XuYi Station

H. B. Zhao, 2# West Beijing Road, Nanjing 210008, China [meteorzh@pmo.ac.cn]
Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu
Measurers H. B. Zhao, B. Li, H. Lu, G. Zhaori
1.04-m $f/1.8$ Schmidt + CCD
UCAC-4

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D35 Lulin Observatory

H.-C. Lin, 300 JungDa Rd, Chung-li City, Tao-yuan Country, Taiwan
[hclin@astro.ncu.edu.tw]

Observers H.-Y. Hsiao, C.-C. Ngeow, C.-H. Hsia, M.-T. Hui, C.-S. Lin, H.-C. Lin, Q.-Z. Ye, Z.-Y. Lin, H.-C., X. Gao
1.0-m $f/8$ Cassegrain + CCD, 0.6-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR1, Gaia-DR2

2000 SR_{94}, 3, 1, 0; 2004 EJ_{116}, 3, 1, 0; 2010 XZ_{93}, 3, 1, 0; 2014 MO_{78}, 3, 1, 0; 2014 QL_{490}, 3, 1, 0; 2015 TH_{75}, 3, 1, 0; 2016 BT_{53}, 3, 1, 0; 2018 LB, 6, 1, 0; 2018 NW, 3, 1, 0; 2018 RA_{18}, 3, 1, 0; *[33, 10, 0*, 2006/07/20–2018/07/09]*

E08 Wobblesock Observatory, Coonabarabran
J. Nott, PO Box 232, Coonabarabran, NSW 2357, Australia [wobblesock@activ8.net.au]
0.35-m reflector + CCD
UCAC-4

2018 ER_4, 3, 1, 0; 2018 FO_2, 3, 1, 0; 2018 JA, 2, 1, 0; 2018 JE_1, 3, 1, 0; 2018 JC_3, 3, 1, 0; 2018 KB_4, 2, 1, 0; 2018 LK, 3, 1, 0; 2018 LM, 6, 2, 1; 2018 LN, 6, 2, 1; 2018 LD_3, 3, 1, 0; 2018 LQ_3, 3, 1, 0; 2018 LU_3, 9, 3, 39; 2018 LV_3, 2, 1, 0; 2018 LZ_3, 3, 1, 0; 2018 LE_4, 3, 1, 0; 2018 LN_4, 3, 1, 0; 2018 LC_5, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LO_5, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 NE_1, 12, 2, 1; 2018 NP_1, 3, 1, 0; 2018 NH_2, 4, 1, 0; *[88, 23, 0*, 2018/06/03–2018/07/20]*

E10 Siding Spring-Faulkes Telescope South
R. Miles, Grange Cottage, Stourton Caundle, Dorset DT10 2JP, England [rmiles@baa.u-net.com] (5)
L. Kurtze, no details supplied [ft@sternwarte-weinheim.de] (19)
Observers R. Miles, M. Dahlhaus, D. Bloom, I. Welzel, L. Belli, P. Breitenstein, L. Esterl, L. Kurtze, J. D. Armstrong, E. Poisel
Measurers R. Miles, M. Dahlhaus, D. Bloom, I. Welzel, L. Belli, P. Breitenstein, J. D. Armstrong, C. Liefke
2.0-m $f/10.0$ Ritchey-Chrétien + CCD
UCAC-4, PPMXL, USNO-B1.0

{19} 2014 UO_{154}, 4, 1, 0; 2015 TT_{266}, 2, 1, 0; 2018 HO_2, 16, 3, 39; 2018 LR_8, 5, 1, 0; 2018 NB_{15}, 9, 1, 0; (394442), 9, 1, 0; (473798), 4, 1, 0; (521664), 9, 1, 0; *[58, 8, 0*, 2018/05/13–2018/08/20]*

{5} 2018 KB_4, 2, 1, 0; *[2, 1, 0*, 2018/06/04]*

E12 Siding Spring Survey
R. H. McNaught, Siding Spring Observatory, Coonabarabran, NSW 2357, Australia [rmn@mso.anu.edu.au]
Observers R. H. McNaught, G. J. Garradd
0.5-m Uppsala Schmidt + CCD
UCAC-2

1999 FW_{75}, 4, 1, 0; 2000 CV_{150}, 4, 1, 0; 2003 SK_{435}, 4, 1, 0; 2003 SX_{435}, 4, 1, 0; 2003 UG_{419}, 4, 1, 0; 2003 WW_{195}, 3, 1, 0; 2004 NZ_{33} *, 8, 2, 31; 2004 NA_{34}, 4, 1, 0; 2004 PK_3, 4, 1, 0; 2004 PC_{118} *, 16, 3, 1447; 2004 PD_{118}, 3, 1, 0; 2004 QL_{29} *, 12, 3, 1439; 2004 QM_{29} *, 8, 2, 25; 2004 RW_1, 17, 1, 0; 2005 CY_{81}, 4, 1, 0; 2005 KX_{14}, 7, 2, 31; 2005 QG_{191} *, 4, 1, 0; 2005 SZ_{294}, 3, 1, 0; 2005 TW_{199}, 8, 2, 22; 2005 TX_{199}, 4, 1, 0; 2005 UA_{533}, 4, 1, 0; 2005 UD_{533}, 4, 1, 0; 2005 UK_{533}, 2, 1, 0; 2005 US_{533}, 8, 2, 8; 2005 VH_{138}, 3, 1, 0; 2005 VK_{138}, 7, 2, 30; 2005 VP_{138}, 8, 2, 26; 2006 AO_{108} *, 8, 2, 16; 2006 BF_{286}, 4, 1, 0; 2006 BJ_{286}, 6, 2, 32; 2006 CJ_{81}, 4, 1, 0; 2006 HG_{155} *, 3, 1, 0; 2006 HH_{155} *, 4, 1, 0; 2006 JH_{82}, 4, 1, 0; 2006 KF_{146}, 3, 1, 0; 2006 OK_{38}, 4, 1, 0; 2006 RF_{123}, 4, 1, 0; 2006 SD_{423}, 4, 1, 0; 2006 SQ_{423}, 4, 1, 0; 2006 SU_{424}, 4, 1, 0; 2006 TH_{133}, 4, 1, 0; 2006 TT_{133}, 2, 1, 0; 2006 UK_{365}, 4, 1, 0; 2006 UO_{365}, 4, 1, 0; 2006 VX_{175}, 2, 1, 0; 2006 WV_{130}, 7, 2, 1474; 2006 WW_{208}, 4, 1, 0; 2007 FN_{52}, 7, 2, 26; 2007 FU_{52} *, 11, 3, 58; 2007 HM_{100}, 4, 1, 0; 2007 JC_{47} *, 12, 3, 24; 2007 NO_7 *, 4, 1, 0; 2007 PD_{51} *, 4, 1, 0; 2007 PE_{51} *, 7, 2, 38; 2007 PF_{51} *, 8, 2, 36; 2007 RA_{37}, 4, 1, 0; 2007 RE_{329} *, 7, 2, 29; 2007 RR_{330}, 4, 1, 0; 2007 UH_{144}, 4, 1, 0; 2007 UN_{144}, 15, 3, 58; 2008 CO_{219}, 4, 1, 0; 2008 FA_{58}, 4, 1, 0; 2008 FZ_{138}, 8, 2, 2570; 2008 GJ_{149}, 4, 1, 0; 2008 RV_{148} *, 4, 1, 0; 2008 RZ_{148} *, 20, 4, 1498; 2008 SY_{313}, 8, 2, 19; 2008 TN_{193}, 4, 1, 0; 2008 UU_{375}, 4, 1, 0; 2008 YY_{175}, 4, 1, 0; 2009 DJ_{146}, 3, 1, 0; 2009 HU_{110}, 4, 1, 0; 2009 LJ_7, 4, 1, 0; 2010 AE_{144}, 4, 1, 0; 2010 CL_{238}, 4, 1, 0; 2010 EZ_{117}, 4, 1, 0; 2010 GJ_{17}, 4, 1, 0; 2010 GB_{73}, 3, 1, 0; 2010 GR_{95}, 4, 1, 0; 2010 HQ_{30}, 12, 3, 58; 2010 KL_{12}, 4, 1, 0; 2010 LT_{70}, 8, 2, 1772; 2010 LP_{126}, 4, 1, 0; 2010 MG_{50}, 4, 1, 0; 2010 OZ_{14}, 4, 1, 0; 2010 OQ_{115}, 3, 1, 0; 2010 QP_7, 4, 1, 0; 2010 RY_{189}, 4, 1, 0; 2010 WL_{75}, 7, 2, 12; 2010 XC_{94}, 4, 1, 0; 2011 BX_2, 4, 1, 0; 2011 BK_{169}, 4, 1, 0; 2011 BL_{169}, 4, 1, 0; 2011 BS_{169}, 4, 1, 0; 2011 BA_{170}, 4, 1, 0; 2011 CQ_{121}, 4, 1, 0; 2011 DO_{53}, 4, 1, 0; 2011 FM_{159}, 7, 2, 1510; 2011 FP_{159}, 8, 2, 1426; 2011 GO_{90}, 4, 1, 0; 2011 GR_{90}, 4, 1, 0; 2011 GC_{91}, 7, 2, 25; 2011 JA_{33}, 4, 1, 0; 2011 KR_{49}, 4, 1, 0; 2011 PM_{16} *, 4, 1, 0; 2011 QS_{100} *, 4, 1, 0; 2011 QV_{100} *, 4, 1, 0; 2011 ST_{93}, 4, 1, 0; 2011 UY_{417}, 4, 1, 0; 2011 WR_{28}, 4, 1, 0; 2012 BU_{159}, 3, 1, 0; 2012 DN_{106} *, 4, 1, 0; 2012 JA_{68} *, 11, 3, 35; 2012 KA_{53}, 3, 1, 0; 2012 MR_{16}, 3, 1, 0; 2012 MU_{16}, 3, 1, 0; 2012 OP_6 *, 7, 2, 27; 2012 PL_{45} *, 3, 1, 0; 2012 PO_{45}, 4, 1, 0; 2012 PP_{45} *, 4, 1, 0; 2012 QG_{54}, 2, 1, 0; 2012 RO_{44} *, 4, 1, 0; 2012 RP_{44} *, 4, 1, 0; 2012 RQ_{44} *, 4, 1, 0; 2012 TT_{330}, 3, 1, 0; 2012 UE_{184}, 4, 1, 0; 2012 XN_{159}, 4, 1, 0; 2012 YD_{12}, 4, 1, 0; 2013 AO_{188}, 4, 1, 0; 2013 AS_{188}, 4, 1, 0; 2013 BT_{84}, 4, 1, 0; 2013 FG_{30}, 4, 1, 0; 2013 JZ_2, 2, 1, 0; 2013 MY_{13}, 4, 1, 0; 2013 NK_{33}, 4, 1, 0; 2013 TD_{171}, 4, 1, 0; 2013 TL_{171}, 4, 1, 0; 2013 TO_{171}, 4, 1, 0; 2013 TU_{171}, 4, 1, 0; 2013 UP_{22}, 3, 1, 0; 2013 VE_{31}, 4, 1, 0; 2013 VQ_{31}, 3, 1, 0; 2013 WS_{113}, 8, 2, 28; 2013 WV_{113}, 4, 1, 0; 2013 YA_{41}, 19, 5, 1823; 2014 EC_{207}, 4, 1, 0; 2014 GA_{65}, 4, 1, 0; 2014 MU_{16}, 4, 1, 0; 2014 OH_7, 4, 1, 0; 2014 PU_{28}, 4, 1, 0; 2014 QQ_{486}, 4, 1, 0; 2014 QL_{490}, 4, 1, 0; 2014 QD_{495}, 4, 1, 0; 2014 RH_9, 4, 1, 0; 2014 RX_{69}, 4, 1, 0; 2014 SP_{215}, 4, 1, 0; 2014 SY_{303}, 3, 1, 0; 2014 TJ_{95}, 4, 1, 0; 2014 UM_{103}, 4, 1, 0; 2014 WV_{332}, 12, 1, 0; 2014 WD_{397}, 4, 1, 0; 2014 YZ_{63}, 4, 1, 0; 2014 YC_{64}, 4, 1, 0; 2014 YL_{64}, 4, 1, 0; 2015 AF_{282}, 4, 1, 0; 2015 BO_{81}, 4, 1, 0; 2015 BK_{565}, 4, 1, 0; 2015 DN_{250}, 4, 1, 0; 2015 FQ_{414}, 4, 1, 0; 2015 FR_{414}, 8, 2, 2563; 2015 OR_{105}, 3, 1, 0; 2015 PW_{310}, 10, 3, 32; 2015 QQ_{11}, 7, 2, 2245; 2015 TP_{386}, 3, 1, 0; 2015 WN_{22}, 4, 1, 0; 2016 AK_{278}, 8, 2, 1792; 2016 CY_{322}, 4, 1, 0; 2016 CC_{323}, 4, 1, 0; 2016 GR_{213}, 4, 1, 0; 2016 GU_{215}, 4, 1, 0; 2016 GF_{268}, 4, 1, 0; 2016 GH_{268}, 4, 1, 0; 2016 HL_2, 3, 1, 0; 2016 KN_6, 4, 1, 0; 2016 LQ_{65}, 4, 1, 0; 2016 UQ_{109}, 4, 1, 0; 2017 BV_5, 4, 1, 0; 2017 DZ_{14}, 7, 2, 23; 2017 DH_{36}, 4, 1, 0; 2017 EQ_{18}, 3, 1, 0; 2017 FC_{54}, 4, 1, 0; 2017 HA_8, 4, 1, 0; 2017 OQ_{62}, 4, 1, 0; 2017 QP_{58}, 4, 1, 0; 2017 RA_{107}, 4, 1, 0; 2017 RQ_{107}, 3, 1, 0; 2017 VU_{11}, 4, 1, 0; 2018 FR_{28}, 3, 1, 0; 2018 MD_6, 4, 1, 0; 2018 NP, 4, 1, 0; 2018 NN_{12}, 4, 1, 0; 2018 PE, 4, 1, 0; 2018 PG_{26}, 4, 1, 0; 2018 QF_3, 4, 1, 0; 2018 QG_6, 4, 1, 0; 2018 QZ_6, 7, 2, 18; 2018 RJ_{16}, 4, 1, 0; (517724), 4, 1, 0; *[1014, 208, 28*, 2004/03/16–2013/07/28]*

E22 Univ. of Southern Queensland Obs., Mt. Kent
S. Sinclair, Faculty of Sciences, University of Southern Queensland, West Street, Toowoomba QLD 4350, Australia [sinclair@apta.net.au]
Observers R. Hart, J. Kielkopf, I. Waite, J. Soutter
0.7-m $f/6.5$ Corrected Dall-Kirkham + CCD
USNO-B1.0

(43231), 5, 1, 0; (73121), 47, 2, 6; *[52, 2, 0*, 2018/07/12–2018/08/09]*

E23 Arcadia
A. Hidas, 31 Geelans Rd, Arcadia NSW 2159, Australia [ash255@tpg.com.au]
0.35-m $f/1.9$ reflector + CCD
UCAC-4

2004 LB, 5, 1, 0; 2006 QM_{33}, 5, 1, 0; 2008 PW_4, 3, 1, 0; 2015 SW_6, 3, 1, 0; 2018 LX, 3, 1, 0; 2018 LG_1, 2, 1, 0; 2018 LU_3, 3, 1, 0; 2018 LZ_3, 5, 1, 0; 2018 LN_4, 3, 1, 0; 2018 LR_6, 6, 1, 0; 2018 LT_6, 4, 1, 0; 2018 MK_8, 3, 1, 0; 2018 MR_8, 8, 2, 9; 2018 NB, 9, 2, 1; 2018 NN, 3, 1, 0; 2018 NV, 6, 1, 0; 2018 NA_1, 3, 1, 0; 2018 NE_1, 3, 1, 0; 2018 NC_2, 3, 1, 0; 2018 NH_2, 3, 1, 0; 2018 NT_3, 3, 1, 0; 2018 NF_4, 3, 1, 0; 2018 NN_4, 7, 2, 1; 2018 OB, 4, 1, 0; 2018 PL_8, 4, 1, 0; 2018 PL_9, 3, 1, 0; 2018 PK_{22}, 3, 1, 0; 2018 QS, 3, 1, 0; 2018 QA_1, 9, 1, 0; 2018 RH_3, 3, 1, 0; 2018 RJ_3, 3, 1, 0; 2018 RK_3, 3, 1, 0; 2018 RY_3, 3, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RQ_5, 3, 1, 0; 2018 RR_5, 3, 1, 0; 2018 RY_5, 3, 1, 0; 2018 RD_7, 3, 1, 0; *[149, 38, 0*, 2018/06/07–2018/09/16]*

E85 Farm Cove
J. McCormick, 2/4 Rapallo Place, Farm Cove, Pakuranga, Auckland, New Zealand [farmcoveobs@xtra.co.nz]
0.35-m $f/10$ Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4

(3986), 5, 1, 0; (13331), 3, 1, 0; *[8, 2, 0*, 2018/06/09–2018/07/06]*

E94 Possum Observatory, Gisborne
J. Drummond, 23 Bilham Road, Patutahi, Gisborne, New Zealand [john_drummond@xtra.co.nz]
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4

2011 GA_{62}, 7, 1, 0; 2018 PL_9, 7, 1, 0; (26796), 3, 1, 0; (61741), 3, 1, 0; (89145), 4, 1, 0; (178930), 3, 1, 0; *[27, 6, 0*, 2018/06/23–2018/08/19]*

F51 Pan-STARRS 1, Haleakala

A. Milani, Pan-STARRS Project, ISS Key Project, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822-1839, USA [milani@dm.unipi.it]

Observers J. Bulger, T. Lowe, A. Schultz, M. Willman, B. Gibson, T. Goggia, N. Primak, K. Chambers, E. Magnier, J. Thiel, S. Watters

Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Magnier, Y. Ramanjooloo, R. Wainscoat, C. Waters, R. Weryk, R. Jedicke

1.8-m Ritchey-Chrétien + CCD

Gaia-DR1, 2MASS, Gaia-DR2

1977 RS, 34, 10, 1878; 1981 EN_{35}, 15, 4, 44; 1994 AM_{9}, 6, 2, 50; 1994 PF_{31}, 26, 7, 1531; 1994 RE_{3}, 4, 1, 0; 1995 OQ_{15}, 4, 1, 0; 1995 QA_{14}, 4, 1, 0; 1995 QG_{17}, 11, 3, 35; 1995 SZ_{8}, 3, 1, 0; 1995 SS_{9}, 18, 5, 1060; 1995 SR_{14}, 7, 2, 29; 1995 SV_{65}, 7, 2, 35; 1995 SW_{81}, 19, 5, 557; 1995 SM_{90}, 11, 3, 1009; 1995 SN_{90}, 6, 1, 0; 1995 TX_{12}, 18, 5, 1012; 1995 UK_{54}, 5, 2, 3; 1995 UO_{70}, 7, 1, 0; 1995 UY_{74}, 11, 3, 52; 1995 UT_{80}, 3, 1, 0; 1996 BZ_{5}, 22, 6, 2357; 1996 FP_{14}, 4, 1, 0; 1996 RG_{16}, 11, 3, 57; 1996 TO_{11}, 16, 2, 2; 1996 TK_{16}, 4, 1, 0; 1996 TK_{28}, 3, 1, 0; 1996 TF_{32}, 16, 5, 897; 1996 TY_{36}, 28, 8, 950; 1996 TS_{66}, 45, 26, 2283; 1996 VP_{10}, 12, 3, 27; 1996 VJ_{12}, 22, 6, 1514; 1996 VB_{32}, 23, 6, 2038; 1996 XC_{8}, 3, 1, 0; 1996 XS_{12}, 15, 3, 35; 1996 XR_{27}, 4, 1, 0; 1997 RN_{7}, 3, 1, 0; 1997 SF_{7}, 7, 2, 12; 1997 SS_{12}, 3, 1, 0; 1997 TS_{30}, 15, 4, 29; 1998 GE_{13}, 23, 6, 504; 1998 QA_{107}, 3, 1, 0; 1998 QA_{112}, 14, 4, 167; 1998 QB_{112}, 7, 2, 473; 1998 RM_{81}, 12, 2, 481; 1998 RN_{81}, 13, 4, 556; 1998 RO_{81}, 18, 5, 1041; 1998 SG_{2}, 3, 1, 0; 1998 SW_{17}, 11, 3, 31; 1998 SV_{173}, 16, 5, 1057; 1998 TB_{9}, 8, 2, 18; 1998 TT_{38}, 22, 6, 965; 1998 UR_{11}, 4, 1, 0; 1998 UB_{51}, 23, 6, 97; 1998 UC_{51}, 20, 5, 555; 1998 UD_{51}, 28, 8, 1552; 1998 UE_{51}, 14, 4, 81; 1998 UF_{51}, 13, 4, 943; 1998 UG_{51}, 4, 1, 0; 1998 UH_{51}, 17, 5, 95; 1998 VH_{57}, 10, 3, 52; 1998 WN_{29}, 11, 3, 26; 1998 WE_{44}, 3, 1, 0; 1998 WA_{45}, 5, 2, 28; 1998 WK_{46}, 17, 5, 2383; 1998 YR_{11}, 15, 6, 1121; 1999 CT_{158}, 3, 1, 0; 1999 FN_{19}, 11, 2, 30; 1999 FW_{75}, 31, 8, 2458; 1999 LE_{31}, 3, 1, 0; 1999 RV_{2}, 17, 5, 55; 1999 RV_{29}, 10, 3, 30; 1999 RB_{32}, 13, 4, 68; 1999 TX_{66}, 14, 3, 91; 1999 TT_{81}, 8, 2, 8; 1999 TL_{225}, 13, 4, 593; 1999 TF_{309}, 3, 1, 0; 1999 UZ_{33}, 11, 3, 8; 1999 UP_{46}, 11, 3, 9; 1999 VX_{18}, 7, 2, 34; 1999 VA_{40}, 9, 3, 56; 1999 VL_{76}, 8, 2, 2; 1999 XM_{16}, 6, 2, 27; 1999 XA_{255}, 4, 1, 0; 2000 AK_{258}, 7, 2, 25; 2000 BV_{50}, 4, 1, 0; 2000 CN_{105}, 70, 29, 2274; 2000 CX_{110}, 4, 1, 0; 2000 CG_{119}, 8, 2, 29; 2000 CL_{140}, 8, 2, 6; 2000 CL_{144}, 7, 2, 9; 2000 CV_{150}, 24, 7, 504; 2000 DX_{67}, 4, 1, 0; 2000 EU_{2}, 4, 1, 0; 2000 EG_{104}, 10, 3, 37; 2000 FQ_{70}, 18, 5, 2023; 2000 GB_{2}, 8, 2, 1; 2000 GR_{22}, 7, 2, 7; 2000 GV_{45}, 4, 1, 0; 2000 GQ_{117}, 3, 1, 0; 2000 GU_{129}, 4, 1, 0; 2000 GH_{182}, 4, 1, 0; 2000 HJ_{31}, 3, 1, 0; 2000 HU_{102}, 3, 1, 0; 2000 JX_{89}, 22, 6, 1912; 2000 KV_{38}, 4, 1, 0; 2000 OA_{22}, 7, 2, 38; 2000 QP_{30}, 20, 4, 57; 2000 QG_{166}, 16, 4, 58; 2000 QR_{210}, 4, 1, 0; 2000 QZ_{238}, 3, 1, 0; 2000 RQ_{76}, 8, 2, 39; 2000 RS_{77}, 3, 1, 0; 2000 SB_{1}, 6, 2, 31; 2000 SR_{94}, 27, 8, 1442; 2000 SO_{185}, 4, 1, 0; 2000 SB_{236}, 3, 1, 0; 2000 SE_{377}, 13, 4, 2260; 2000 SF_{377}, 18, 6, 2165; 2000 TM_{15}, 8, 2, 36; 2000 TV_{72}, 4, 1, 0; 2000 UQ_{35}, 4, 1, 0; 2000 UE_{40}, 3, 1, 0; 2000 UC_{96}, 3, 1, 0; 2000 WE_{3}, 3, 1, 0; 2000 XL_{47}, 4, 1, 0; 2001 BW_{64}, 4, 1, 0; 2001 DP_{81}, 3, 1, 0; 2001 DX_{109}, 3, 1, 0; 2001 EJ_{8}, 2, 1, 0; 2001 FS_{151}, 11, 3, 26; 2001 FR_{207}, 14, 4, 1524; 2001 FY_{207}, 3, 1, 0; 2001 FA_{221}, 4, 1, 0; 2001 GQ_{5}, 3, 1, 0; 2001 KA_{55}, 4, 1, 0; 2001 KD_{77}, 9, 5, 19; 2001 LC_{9}, 6, 2, 1181; 2001 MA_{5}, 3, 1, 0; 2001 NH_{13}, 12, 3, 50; 2001 OU, 4, 1, 0; 2001 OM_{28}, 3, 1, 0; 2001 OG_{29}, 9, 3, 3; 2001 OO_{40}, 4, 1, 0; 2001 OQ_{44}, 3, 1, 0; 2001 OK_{59}, 12, 3, 34; 2001 OJ_{78}, 4, 1, 0; 2001 OK_{78}, 7, 2, 7; 2001 PX_{3}, 4, 1, 0; 2001 PA_{4}, 4, 1, 0; 2001 PO_{10}, 7, 2, 33; 2001 PC_{15}, 8, 2, 34; 2001 PG_{23}, 3, 1, 0; 2001 PM_{34}, 10, 3, 36; 2001 PE_{36}, 4, 1, 0; 2001 PE_{43}, 19, 4, 59; 2001 PY_{43}, 3, 1, 0; 2001 PT_{60}, 6, 2, 56; 2001 PJ_{61}, 4, 1, 0; 2001 PH_{67}, 8, 2, 4; 2001 PS_{67}, 3, 1, 0; 2001 QJ_{9}, 4, 1, 0; 2001 QC_{45}, 4, 1, 0; 2001 QN_{50}, 4, 1, 0; 2001 QO_{85}, 4, 1, 0; 2001 QC_{96}, 3, 1, 0; 2001 QQ_{102}, 11, 3, 6; 2001 QQ_{106}, 14, 4, 938; 2001 QP_{110}, 3, 1, 0; 2001 QH_{112}, 15, 4, 57; 2001 QZ_{114}, 15, 4, 24; 2001 QF_{136}, 3, 1, 0; 2001 QA_{143}, 4, 1, 0; 2001 QQ_{154}, 12, 3, 33; 2001 QU_{158}, 3, 1, 0; 2001 QP_{202}, 11, 3, 9; 2001 QB_{207}, 6, 2, 17; 2001 QB_{232}, 11, 2, 30; 2001 QD_{298}, 56, 26, 2670; 2001 QS_{311}, 6, 2, 7; 2001 QH_{327}, 12, 2, 39; 2001 QC_{333}, 12, 3, 37; 2001 QY_{334}, 3, 1, 0; 2001 RG_{2}, 7, 2, 50; 2001 RX_{2}, 4, 1, 0; 2001 RQ_{17}, 12, 3, 14; 2001 RF_{20}, 4, 1, 0; 2001 RK_{21}, 4, 1, 0; 2001 RY_{39}, 15, 4, 59; 2001 RR_{41}, 4, 1, 0; 2001 RK_{50}, 3, 1, 0; 2001 RR_{54}, 12, 3, 37; 2001 RN_{57}, 8, 2, 7; 2001 RE_{59}, 7, 2, 7; 2001 RL_{97}, 3, 1, 0; 2001 RH_{99}, 3, 1, 0; 2001 RH_{103}, 4, 1, 0; 2001 RB_{105}, 2, 1, 0; 2001 RB_{127}, 6, 2, 28; 2001 SK_{42}, 4, 1, 0; 2001 SL_{42}, 4, 1, 0; 2001 SM_{83}, 4, 1, 0; 2001 SL_{87}, 15, 4, 58; 2001 SD_{91}, 4, 1, 0; 2001 SB_{93}, 8, 2, 29; 2001 SD_{95}, 11, 3, 39; 2001 ST_{97}, 12, 2, 9; 2001 SE_{99}, 4, 1, 0; 2001 SC_{102}, 3, 1, 0; 2001 SG_{103}, 7, 2, 7; 2001 SZ_{125}, 7, 2, 30; 2001 SR_{129}, 4, 1, 0; 2001 SC_{160}, 2, 1, 0; 2001 SC_{170}, 4, 1, 0; 2001 SD_{182}, 4, 1, 0; 2001 ST_{198}, 7, 2, 947; 2001 SP_{201}, 7, 2, 4; 2001 SG_{204}, 6, 2, 8; 2001 SQ_{206}, 8, 2, 7; 2001 SU_{209}, 3, 1, 0; 2001 SD_{211}, 7, 2, 9; 2001 SD_{216}, 3, 1, 0; 2001 SJ_{224}, 18, 3, 9; 2001 SX_{225}, 3, 1, 0; 2001 SE_{236}, 8, 2, 9; 2001 SU_{236}, 3, 1, 0; 2001 ST_{242}, 2, 1, 0; 2001 SK_{256}, 15, 4, 54; 2001 SG_{275}, 3, 1, 0; 2001 SF_{284}, 4, 1, 0; 2001 SY_{289}, 12, 3, 59; 2001 SG_{290}, 7, 2, 58; 2001 SB_{298}, 7, 2, 3; 2001 SH_{303}, 4, 1, 0; 2001 SH_{305}, 4, 1, 0; 2001 SD_{306}, 8, 2, 12; 2001 ST_{312}, 4, 1, 0; 2001 SV_{316}, 6, 2, 2; 2001 SN_{321}, 4, 1, 0; 2001 SB_{330}, 11, 3, 34; 2001 SE_{332}, 3, 1, 0; 2001 SH_{337}, 7, 2, 2; 2001 SA_{356}, 4, 1, 0; 2001 SA_{357}, 18, 5, 1426; 2001 TO, 3, 1, 0; 2001 TZ_{1}, 2, 1, 0; 2001 TR_{5}, 4, 1, 0; 2001 TV_{6}, 11, 3, 67; 2001 TM_{26}, 18, 5, 36; 2001 TN_{50}, 4, 1, 0; 2001 TS_{50}, 12, 3, 53; 2001 TX_{95}, 4, 1, 0; 2001 TL_{101}, 4, 1, 0; 2001 TR_{112}, 8, 2, 20; 2001 TW_{128}, 3, 1, 0; 2001 TL_{130}, 3, 1, 0; 2001 TO_{140}, 4, 1, 0; 2001 TW_{142}, 3, 1, 0; 2001 TG_{144}, 11, 2, 28; 2001 TS_{144}, 4, 1, 0; 2001 TC_{145}, 3, 1, 0; 2001 TQ_{149}, 4, 1, 0; 2001 TU_{157}, 4, 1, 0; 2001 TS_{162}, 7, 2, 2; 2001 TQ_{173}, 26, 7, 2192; 2001 TY_{173}, 3, 1, 0; 2001 TE_{199}, 10, 3, 33; 2001 TH_{203}, 7, 2, 2; 2001 TL_{222}, 17, 5, 28; 2001 TW_{222}, 3, 1, 0; 2001 TM_{237}, 3, 1, 0; 2001 TA_{242}, 3, 1, 0; 2001 TM_{244}, 3, 1, 0; 2001 TA_{253}, 8, 2, 2; 2001 TS_{254}, 8, 2, 51; 2001 TJ_{259}, 8, 2, 33; 2001 TC_{260}, 4, 1, 0; 2001 TP_{261}, 14, 3, 53; 2001 TY_{261}, 8, 2, 13; 2001 TH_{262}, 8, 2, 7; 2001 TM_{262}, 3, 1, 0; 2001 UK, 3, 1, 0; 2001 UB_{2}, 3, 1, 0; 2001 UR_{4}, 6, 2, 33; 2001 UG_{7}, 8, 2, 7; 2001 UT_{18}, 8, 2, 2; 2001 UA_{20}, 3, 1, 0; 2001 UO_{42}, 14, 4, 56; 2001 UL_{45}, 4, 1, 0; 2001 UW_{55}, 4, 1, 0; 2001 UO_{86}, 2, 1, 0; 2001 UL_{87}, 23, 7, 1887; 2001 UX_{90}, 3, 1, 0; 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1.8-m Ritchey-Chrétien + CCD
Gaia-DR1, Gaia-DR2

1981 EN_{35}, 11, 3, 25; 1995 UL_{21}, 4, 1, 0; 1996 TK_{16}, 3, 1, 0; 1996 XS_{12}, 7, 1, 0; 1997 UF_{23}, 4, 1, 0; 1998 GE_{13}, 4, 1, 0; 1998 SV_{48}, 4, 1, 0; 1999 FN_{19}, 4, 1, 0; 1999 LK_{1}, 3, 1, 0; 1999 RV_{29}, 10, 3, 24; 2000 GQ_{117}, 3, 1, 0; 2000 QG_{166}, 3, 1, 0; 2000 RS_{77}, 4, 1, 0; 2000 SB_{1}, 11, 3, 12; 2000 TU, 4, 1, 0; 2000 UQ_{35}, 4, 1, 0; 2000 UE_{40}, 8, 1, 0; 2000 WE_{196}, 4, 1, 0; 2001 MA_{5}, 7, 2, 5; 2001 OQ_{44}, 10, 2, 3; 2001 OK_{59}, 8, 2, 26; 2001 OJ_{78}, 4, 1, 0; 2001 PA_{4}, 3, 1, 0; 2001 PO_{10}, 8, 2, 3; 2001 PR_{15}, 3, 1, 0; 2001 PE_{36}, 4, 1, 0; 2001 PH_{67}, 4, 1, 0; 2001 QC_{45}, 4, 1, 0; 2001 QQ_{95}, 3, 1, 0; 2001 QZ_{114}, 7, 2, 6; 2001 QA_{143}, 3, 1, 0; 2001 QU_{158}, 3, 1, 0; 2001 QU_{190}, 3, 1, 0; 2001 QB_{207}, 4, 1, 0; 2001 QB_{232}, 4, 1, 0; 2001 QY_{334}, 16, 4, 12; 2001 RR_{54}, 4, 1, 0; 2001 SL_{87}, 4, 1, 0; 2001 SC_{102}, 4, 1, 0; 2001 SU_{144}, 3, 1, 0; 2001 SC_{170}, 3, 1, 0; 2001 SK_{276}, 3, 1, 0; 2001 SF_{284}, 4, 1, 0; 2001 SG_{290}, 8, 2, 5; 2001 SH_{303}, 4, 1, 0; 2001 SN_{321}, 8, 2, 1; 2001 TY_{220}, 4, 1, 0; 2001 TK_{244}, 4, 1, 0; 2001 TJ_{259}, 4, 1, 0; 2001 UB_{2}, 7, 2, 2; 2001 UO_{100}, 3, 1, 0; 2001 UC_{133}, 4, 1, 0; 2001 UA_{227}, 4, 1, 0; 2001 UN_{231}, 4, 1, 0; 2001 VL_{127}, 3, 1, 0; 2001 YP_{9}, 4, 1, 0; 2002 AZ_{48}, 3, 1, 0; 2002 CN_{10}, 4, 1, 0; 2002 CH_{14}, 3, 1, 0; 2002 CG_{26}, 3, 1, 0; 2002 HS_{18}, 11, 3, 29; 2002 LV_{6}, 6, 2, 2; 2002 LL_{65}, 3, 1, 0; 2002 MY_{6}, 3, 1, 0; 2002 NC_{6}, 4, 1, 0; 2002 NC_{21}, 12, 3, 9; 2002 NG_{58}, 3, 1, 0; 2002 NE_{65}, 3, 1, 0; 2002 NG_{65}, 11, 3, 4; 2002 NC_{72}, 4, 1, 0; 2002 NB_{76}, 7, 2, 1; 2002 NR_{79}, 2, 1, 0; 2002 NS_{80}, 4, 1, 0; 2002 OS_{4}, 4, 1, 0; 2002 OQ_{29}, 3, 1, 0; 2002 OP_{33}, 6, 2, 32; 2002 OP_{37}, 4, 1, 0; 2002 PE_{6}, 4, 1, 0; 2002 PM_{14}, 4, 1, 0; 2002 PF_{19}, 3, 1, 0; 2002 PC_{20}, 3, 1, 0; 2002 PR_{64}, 8, 2, 3; 2002 PF_{123}, 4, 1, 0; 2002 PK_{141}, 6, 2, 24; 2002 PG_{161}, 7, 2, 2; 2002 PJ_{175}, 4, 1, 0; 2002 PS_{193}, 4, 1, 0; 2002 PY_{193}, 3, 1, 0; 2002 PN_{195}, 3, 1, 0; 2002 PH_{203}, 8, 2, 6; 2002 QC_{1}, 4, 1, 0; 2002 QU_{6}, 4, 1, 0; 2002 QZ_{12}, 4, 1, 0; 2002 QM_{15}, 4, 1, 0; 2002 QD_{18}, 4, 1, 0; 2002 QT_{31}, 4, 1, 0; 2002 QF_{34}, 2, 1, 0; 2002 QX_{81}, 4, 1, 0; 2002 QC_{84}, 3, 1, 0; 2002 QK_{87}, 4, 1, 0; 2002 QX_{105}, 10, 3, 7; 2002 QE_{108}, 7, 2, 12; 2002 QA_{112}, 2, 1, 0; 2002 QJ_{131}, 4, 1, 0; 2002 QH_{139}, 4, 1, 0; 2002 QW_{141}, 4, 1, 0; 2002 QD_{142}, 4, 1, 0; 2002 QK_{142}, 3, 1, 0; 2002 QR_{142}, 8, 2, 4; 2002 QV_{142}, 8, 2, 4; 2002 QR_{145}, 4, 1, 0; 2002 QX_{146}, 4, 1, 0; 2002 QW_{150}, 4, 1, 0; 2002 QE_{151}, 4, 1, 0; 2002 QL_{151}, 4, 1, 0; 2002 QV_{151}, 4, 1, 0; 2002 QG_{153}, 3, 1, 0; 2002 QQ_{154}, 4, 1, 0; 2002 QP_{155}, 4, 1, 0; 2002 QC_{158}, 4, 1, 0; 2002 RZ_{65}, 3, 1, 0; 2002 RC_{142}, 7, 2, 2; 2002 RD_{149}, 8, 1, 0; 2002 RZ_{160}, 4, 1, 0; 2002 RV_{162}, 3, 1, 0; 2002 RD_{246}, 4, 1, 0; 2002 RJ_{270}, 3, 1, 0; 2002 RK_{278}, 3, 1, 0; 2002 RB_{281}, 2, 1, 0; 2002 RE_{293}, 3, 1, 0; 2002 RG_{293}, 8, 1, 0; 2002 RJ_{295}, 2, 1, 0; 2002 RZ_{295}, 3, 1, 0; 2002 RD_{297}, 4, 1, 0; 2002 SG_{4}, 3, 1, 0; 2002 SQ_{47}, 4, 1, 0; 2002 TV_{65}, 3, 1, 0; 2002 TC_{90}, 3, 1, 0; 2002 TN_{93}, 4, 1, 0; 2002 TM_{154}, 8, 2, 1; 2002 TX_{158}, 4, 1, 0; 2002 TE_{170}, 3, 1, 0; 2002 TP_{171}, 10, 3, 4; 2002 TX_{204}, 4, 1, 0; 2002 TA_{263}, 3, 1, 0; 2002 TR_{307}, 3, 1, 0; 2002 TK_{313}, 8, 1, 0; 2002 TU_{315}, 4, 1, 0; 2002 TJ_{322}, 8, 2, 1; 2002 TK_{336}, 4, 1, 0; 2002 UN_{50}, 4, 1, 0; 2002 UH_{59}, 3, 1, 0; 2002 UP_{60}, 4, 1, 0; 2002 UK_{79}, 3, 1, 0; 2002 VF_{37}, 4, 1, 0; 2002 VV_{97}, 3, 1, 0; 2002 VJ_{118}, 3, 1, 0; 2002 VO_{139}, 4, 1, 0; 2002 VB_{140}, 4, 1, 0; 2002 VN_{145}, 3, 1, 0;

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(501720), 6, 2, 6; (501733), 4, 1, 0; (501942), 3, 1, 0; (502255), 4, 1, 0; (502476), 4, 1, 0; (502533), 3, 1, 0; (502703), 5, 1, 0; (503079), 4, 1, 0; (503314), 4, 1, 0; (503418), 4, 1, 0; (503521), 4, 1, 0; (503568), 3, 1, 0; (503794), 4, 1, 0; (503805), 3, 1, 0; (503825), 3, 1, 0; (504711), 3, 1, 0; (505178), 2, 1, 0; (506104), 3, 1, 0; (506128), 3, 1, 0; (506859), 4, 1, 0; (508767), 4, 1, 0; (508810), 7, 2, 22; (508818), 6, 2, 2; (509456), 7, 2, 5; (509691), 3, 1, 0; (512231), 3, 1, 0; (513182), 6, 2, 35; (513286), 3, 1, 0; (514545), 3, 1, 0; (514592), 6, 2, 23; (514652), 6, 2, 2; (515167), 8, 1, 0; (515254), 4, 1, 0; (515636), 3, 1, 0; (515808), 3, 1, 0; (516156), 4, 1, 0; (516321), 3, 1, 0; (516333), 8, 2, 1; (516344), 2, 1, 0; (516351), 3, 1, 0; (516431), 8, 2, 27; (516453), 7, 2, 37; (516560), 3, 1, 0; (516708), 4, 1, 0; (516728), 7, 2, 20; (516797), 3, 1, 0; (516930), 3, 1, 0; (516976), 3, 1, 0; (517170), 7, 2, 1; (517183), 4, 1, 0; (517322), 3, 1, 0; (517407), 3, 1, 0; (517432), 4, 1, 0; (517442), 8, 2, 34; (517443), 4, 1, 0; (517511), 3, 1, 0; (517537), 4, 1, 0; (517572), 4, 1, 0; (517593), 4, 1, 0; (517682), 6, 2, 27; (517696), 7, 2, 33; (517717), 4, 1, 0; (517808), 3, 1, 0; (517819), 6, 2, 24; (517836), 3, 1, 0; (517909), 3, 1, 0; (517969), 4, 1, 0; (517986), 6, 2, 27; (518008), 3, 1, 0; (518096), 3, 1, 0; (518097), 4, 1, 0; (518112), 3, 1, 0; (518124), 4, 1, 0; (518223), 4, 1, 0; (518326), 4, 1, 0; (518344), 2, 1, 0; (518363), 4, 1, 0; (518366), 7, 2, 36; (518388), 3, 1, 0; (518426), 3, 1, 0; (518429), 7, 2, 43; (518434), 8, 2, 28; (518438), 10, 2, 1; (518458), 3, 1, 0; (518482), 18, 5, 43; (518525), 7, 2, 8; (518535), 4, 1, 0; (518568), 6, 2, 5; (518597), 3, 1, 0; (518608), 4, 1, 0; (518643), 4, 1, 0; (518736), 4, 1, 0; (518743), 2, 1, 0; (518827), 3, 1, 0; (518887), 3, 1, 0; (518897), 4, 1, 0; (518959), 4, 1, 0; (519002), 4, 1, 0; (519075), 4, 1, 0; (519125), 9, 3, 37; (519204), 3, 1, 0; (519229), 7, 2, 24; (519234), 4, 1, 0; (519241), 3, 1, 0; (519392), 3, 1, 0; (519395), 4, 1, 0; (519488), 2, 1, 0; (519494), 3, 1, 0; (519521), 8, 2, 27; (519682), 15, 3, 33; (519712), 8, 2, 3; (519741), 3, 1, 0; (519757), 6, 2, 6; (519787), 3, 1, 0; (519816), 4, 1, 0; (519822), 4, 1, 0; (519839), 7, 2, 23; (519877), 3, 1, 0; (519894), 7, 2, 27; (519898), 4, 1, 0; (519904), 4, 1, 0; (519934), 4, 1, 0; (520031), 4, 1, 0; (520255), 4, 1, 0; (520297), 4, 1, 0; (520317), 4, 1, 0; (520396), 11, 3, 9; (520450), 3, 1, 0; (520455), 3, 1, 0; (520488), 10, 3, 33; (520509), 3, 1, 0; (520511), 7, 2, 6; (520515), 8, 2, 1; (520521), 3, 1, 0; (520524), 10, 3, 28; (520526), 8, 2, 8; (520560), 4, 1, 0; (520561), 7, 2, 6; (520577), 4, 1, 0; (520620), 7, 2, 1; (520649), 4, 1, 0; (520654), 4, 1, 0; (520661), 4, 1, 0; (520666), 3, 1, 0; (520685), 3, 1, 0; (520690), 4, 1, 0; (520692), 4, 1, 0; (520711), 3, 1, 0; (520722), 3, 1, 0; (520727), 3, 1, 0; (520731), 4, 1, 0; (520745), 3, 1, 0; (520752), 3, 1, 0; (520757), 4, 1, 0; (520769), 4, 1, 0; (520770), 15, 4, 34; (520797), 4, 1, 0; (520801), 4, 1, 0; (520802), 3, 1, 0; (520812), 4, 1, 0; (520815), 8, 2, 26; (520818), 3, 1, 0; (520823), 4, 1, 0; (520827), 3, 1, 0; (520847), 2, 1, 0; (520905), 4, 1, 0; (520911), 4, 1, 0; (520949), 7, 1, 0; (520976), 8, 2, 22; (521138), 3, 1, 0; (521583), 4, 1, 0; (521607), 3, 1, 0; (521618), 14, 4, 34; (521802), 7, 2, 25; (521813), 3, 1, 0; (521815), 4, 1, 0; (521863), 3, 1, 0; (521927), 4, 1, 0; (521938), 4, 1, 0; (521942), 4, 1, 0; (521958), 3, 1, 0; (522009), 4, 1, 0; (522049), 4, 1, 0; (522065), 3, 1, 0; (522080), 3, 1, 0; (522107), 7, 2, 6; (522157), 4, 1, 0; (522161), 3, 1, 0; (522165), 4, 1, 0; (522220), 4, 1, 0; (522267), 4, 1, 0; (522276), 3, 1, 0; (522283), 3, 1, 0; (522289), 4, 1, 0; (522295), 4, 1, 0; (522329), 4, 1, 0; (522351), 4, 1, 0; (522368), 4, 1, 0; (522370), 4, 1, 0; (522377), 2, 1, 0; (522485), 8, 1, 0; (523186), 4, 1, 0; (523240), 3, 1, 0; (523258), 4, 1, 0; (523269), 3, 1, 0; (523276), 4, 1, 0; (523331), 3, 1, 0; (523351), 3, 1, 0; (523361), 4, 1, 0; (523373), 4, 1, 0; (523378), 4, 1, 0; (523395), 4, 1, 0; (523396), 3, 1, 0; (523404), 4, 1, 0; (523407), 4, 1, 0; (523423), 8, 2, 21; (523424), 7, 2, 1; (523425), 7, 2, 21; (523433), 4, 1, 0; (523437), 4, 1, 0; (523446), 11, 3, 27; (523450), 3, 1, 0; (523453), 4, 1, 0; (523455), 8, 2, 27; (523456), 7, 2, 22; (523457), 4, 1, 0; (523459), 13, 3, 34; (523468), 4, 1, 0; (523470), 3, 1, 0; (523472), 3, 1, 0; (523477), 4, 1, 0; (523478), 7, 2, 6; (523483), 3, 1, 0; (523484), 7, 1, 0; (523490), 3, 1, 0; (523491), 4, 1, 0; (523495), 4, 1, 0; (523504), 7, 2, 6; (523508), 3, 1, 0; (523581), 4, 1, 0; *[104259, 23279, 110*, 2015/04/23–2018/09/19]*

F65 Haleakala-Faulkes Telescope North
L. Kurtze, Technische Universität Darmstadt, Fachgebiet Mechatronik & Maschinenakustik, AG Maschinenakustik, Magdalenenstrasse 4, 64289 Darmstadt, Germany [kurtze@mum.tu-darmstadt.de] (2)
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs@tiscali.it] (9)
Observers M. Dahlhaus, D. Bloom, I. Welzel, L. Belli, P. Breitenstein, C. Liefke, J. D. Armstrong, C. A. Crawford, E. J. Bloyer, R. J. Matsumoto, A. T.
2.0-m Ritchey-Chrétien + CCD
PPMXL, USNO-B1.0, UCAC-4
{2} 2013 EG_{45}, 2, 1, 0; 2018 HO_2, 4, 1, 0; 2018 LR_8 *, 15, 3, 3; (415246), 5, 1, 0; (447100), 5, 1, 0; *[31, 5, 1*, 2018/06/08–2018/06/16]*

{9} (230985), 4, 1, 0; *[4, 1, 0*, 2018/08/15]*

G26 Fushan Observatory, Mt Shaohua
W. Pei, Changshoupo village, Shannxi, China [wlypei@gmail.com]
0.28-m $f/2$ Schmidt-Cassegrain + CCD
Gaia-DR1
(5), 6, 2, 3; (43), 3, 1, 0; (131), 2, 1, 0; (132), 2, 1, 0; (256), 3, 1, 0; (382), 3, 1, 0; (389), 9, 3, 19; (407), 3, 1, 0; (409), 5, 2, 13; (411), 1, 1, 0; (442), 3, 1, 0; (472), 9, 3, 8; (480), 2, 1, 0; (507), 3, 1, 0; (513), 3, 1, 0; (589), 3, 1, 0; (630), 1, 1, 0; (709), 3, 1, 0; (879), 2, 1, 0; (1124), 1, 1, 0; (1319), 1, 1, 0; (1400), 1, 1, 0; (1411), 3, 1, 0; (1436), 2, 1, 0; (1627), 3, 1, 0; (1746), 2, 1, 0; (1847), 2, 1, 0; (1881), 1, 1, 0; (2010), 3, 1, 0; (2061), 2, 1, 0; (2393), 1, 1, 0; (2842), 1, 1, 0; (2906), 2, 1, 0; (3469), 1, 1, 0; (3736), 2, 1, 0; (4207), 3, 1, 0; (4483), 2, 1, 0; (4925), 3, 1, 0; (5142), 2, 1, 0; (5468), 3, 1, 0; (6238), 1, 1, 0; (7757), 2, 1, 0; (10501), 2, 2, 2; (11055), 1, 1, 0; (25328), 1, 1, 0; (27135), 2, 1, 0; (101430), 3, 1, 0; *[119, 47, 0*, 2018/06/04–2018/09/10]*

G27 Fabra Observatory, Montsec
J. Nuñez, Fabra Observatory, E-08035 Barcelona, Spain [jorge@am.ub.es]
Observers J. Nuñez, L. Canals, M. Merino, R. Lopez-Morcillo, D. del Ser, J. Tous
0.50-m $f/0.96$ Baker-Nunn + CCD
Tycho-2
(260), 4, 1, 0; (467), 3, 1, 0; (662), 4, 1, 0; (684), 4, 1, 0; (784), 4, 1, 0; (1281), 4, 1, 0; (2019), 4, 1, 0; (3451), 3, 1, 0; (3870), 4, 1, 0; (4164), 2, 1, 0; *[36, 10, 0*, 2018/05/13]*

G32 Elena Remote Observatory, San Pedro de Atacama
A. Oreshko, 123154, Karamishevskaya nab. 60, 1, 31, Moscow, Russia [elenaatacama@gmail.com]
0.4-m $f/8.0$ Ritchey-Chrétien + CCD
UCAC-3
2006 CO_{81}, 4, 1, 0; 2007 VE_{341}, 3, 1, 0; 2014 SO_{290}, 7, 2, 1; *[14, 3, 0*, 2012/11/17–2017/04/04]*

G33 Wickede
G. Neue, Stemmering 5, 44319 Dortmund, Germany [guenther.neue@t-online.de]
0.1-m Schmidt-Cassegrain + CCD
Gaia-DR2
(433), 8, 1, 0; (2061), 5, 1, 0; (13553), 9, 2, 8; *[22, 3, 0*, 2018/08/17–2018/08/25]*

G34 Oberfrauendorf
T. Felber, Oberfrauendorf, An der Lockwitz 52 Oberfrauendorf, Germany [tobi.23@gmx.de]
0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
Gaia-DR1, Gaia-DR2, UCAC-4, PPMXL
2013 EP_{41}, 4, 1, 0; 2015 DP_{155}, 5, 1, 0; 2015 FP_{118}, 4, 1, 0; 2018 EJ_4, 5, 1, 0; 2018 KE_3, 4, 1, 0; 2018 LK, 3, 1, 0; 2018 LQ_2, 4, 1, 0; 2018 NB, 10, 3, 17; 2018 NQ, 5, 1, 0; 2018 NV, 3, 1, 0; 2018 NE_1, 3, 1, 0; 2018 NL_4, 3, 1, 0; 2018 PD_{20}, 4, 1, 0; 2018 QU_1, 5, 1, 0; 2018 RC, 4, 1, 0; 2018 RQ_2, 4, 1, 0; 2018 RD_5, 4, 1, 0; 2018 RO_5, 5, 1, 0; 2018 RP_8, 4, 1, 0; 2018 SD_1, 7, 1, 0; (719), 3, 1, 0; (1627), 8, 2, 15; (6456), 2, 1, 0; (13553), 10, 3, 68; (17274), 4, 1, 0; (25631), 3, 1, 0; (66391), 4, 1, 0; (418929), 3, 1, 0; (441987), 4, 1, 0; (469737), 4, 1, 0; *[135, 30, 0*, 2018/06/04–2018/09/19]*

G36 Calar Alto-CASADO
S. Hellmich, Institute of Planetary Research, Rutherfordstraße 2, D-12489 Berlin, Germany [stephan.hellmich@dlr.de]
Observers S. Mottola, S Hellmich
Measurers G. Hahn, S. Hellmich
1.23-m reflector + CCD
UCAC-3
1998 KF_6, 7, 1, 0; 2006 TO_{131}, 40, 3, 2; 2006 UN_{364}, 24, 2, 1; 2007 BP_{103}, 7, 2, 1; 2008 WE_{144}, 6, 1, 0; 2011 AS_{83}, 9, 1, 0; 2011 PO_{16} *, 11, 1, 0; 2011 UG_{418}, 4, 1, 0; 2011 WK_{159}, 20, 1, 0; 2013 UH_{22}, 5, 1, 0; 2014 QB_{480}, 10, 1, 0; 2014 QC_{480}, 9, 1, 0; 2014 QD_{480}, 7, 1, 0; 2014 QJ_{492} *, 7, 1, 0; 2014 SW_7, 9, 2, 1; 2016 KM_7, 3, 1, 0; 2017 GQ_{10}, 12, 2, 2; *[190, 17, 2*, 2011/08/10–2018/03/21]*

G37 Lowell Observatory-Discovery Channel Telescope
L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001, U.S.A. [lhw@lowell.edu]
Observers C. Trujillo, M. Devogele, L. M. Feaga, J. M. Sunshine, M. M. Knight, C. E. Holt, T. L. Farnham, N. Moskovitz, L. H. Wasserman
4.3-m Discovery Channel Telescope + CCD
Gaia-DR2, USNO-B1.0

2004 DM_{64}, 2, 1, 0; 2006 HZ_{122}, 2, 1, 0; 2006 UF_{365}, 2, 1, 0; 2008 QB_{43}, 2, 1, 0; 2010 JJ_{124}, 2, 1, 0; 2011 CP_{121}, 3, 1, 0; 2014 FE_{72}, 3, 2, 1; 2014 JB_{80}, 2, 1, 0; 2014 KR_{101}, 2, 1, 0; 2014 RJ_{30}, 2, 1, 0; 2017 FP_{161}, 2, 1, 0; 2017 OF_{69}, 4, 2, 1; 2017 SG_{132} *, 3, 1, 0; 2017 SH_{132} *, 3, 1, 0; 2017 SJ_{132} *, 2, 1, 0; 2018 LB_1, 10, 1, 0; 2018 LC_1, 9, 1, 0; 2018 LJ_1, 9, 1, 0; 2018 LQ_2, 6, 1, 0; 2018 LV_2, 9, 1, 0; (13354), 2, 1, 0; (59164), 2, 1, 0; (64780), 2, 1, 0; (86542), 2, 1, 0; (145803), 2, 1, 0; (174879), 2, 1, 0; (229265), 9, 1, 0; (340110), 3, 1, 0; (362619), 15, 1, 0; *[118, 29, 3*, 2013/03/12–2018/06/14]*

G40 Slooh.com Canary Islands Observatory
T. Evans, Apartado 286, 8601-929 LUZ LGS, Portgual [tony.evans@sapo.pt] (3)
B. Lütkenhöner, Schlossfeld 112, 48308 Senden, Germany [lutkenh@t-online.de] (9)
M. Kumrucu-Lohmiller, 5 Atlas Road, Sharon, MA 02067-1301, USA [mklohmiller@gmail.com] (10)
G. Gašparović, Actarius Grupa, Badaliceva 25, 10000 Zagreb, Croatia [gasparovic@actarius.hr] (11)
W. F. Cashwell, 65 Apricot Ridge Ave., Las Vegas, NV 89183, U.S.A. [wfcashwell@gmail.com] (16)
K. Dankov, no details supplied [kolyodan@gmail.com] (17)
M. Suzuki, 9-12-17 Kouei-nishi-machi, Kitami-shi, Hokkaido 090-0058, Japan [mtnsuzuki@nifty.com] (19)
K. Sárneczky, 6701 Szeged, POB 406. Hungary [sky@titan.physx.u-szeged.hu] (20)
Observers G. Gašparović, Y. Chen, K. Dankov, B. Lütkenhöner, M. Suzuki, A. J. Evans, W. F. Cashwell, A. Kocsis, A. Nagy Mélykuti, K. Sárneczky, T. Zalezsák, M. Kumrucu-Lohmiller, N. Paul, J. Waterworth, J. Tuten, P. Cox
Measurers G. Gašparović, Y. Chen, G. Y. Gasparovic, K. Dankov, B. Lütkenhöner, M. Suzuki, A. J. Evans, W. F. Cashwell, A. Kocsis, A. Nagy Mélykuti, K. Sárneczky, T. Zalezsák, M. Kumrucu-Lohmiller, N. Paul
0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.36-m $f/11$ Schmidt-Cassegrain + CCD, 0.51-m reflector + CCD
UCAC-4, Gaia-DR1, Gaia-DR2, USNO-B1.0

{10} 2018 KV, 6, 2, 5; 2018 LQ_2, 10, 2, 1; 2018 LC_3, 8, 2, 4; 2018 NU_3, 3, 1, 0; 2018 NN_4, 3, 1, 0; (4401), 3, 1, 0; (136108), 3, 1, 0; (504800), 8, 2, 7; *[44, 8, 0*, 2018/06/20–2018/09/18]*

{11} 2014 QP_{366}, 3, 1, 0; 2015 DC_{250}, 6, 2, 7; 2017 YE_5, 4, 1, 0; 2018 KR_3, 9, 3, 2; 2018 KT_3, 2, 1, 0; 2018 QJ_4, 3, 1, 0; 2018 RS_9, 3, 1, 0; 2018 RY_{12}, 3, 1, 0; 2018 RZ_{12}, 3, 1, 0; (1110), 3, 1, 0; (2373), 3, 1, 0; (2729), 3, 1, 0; (3370), 2, 1, 0; (3488), 3, 1, 0; (5566), 3, 1, 0; (10231), 2, 1, 0; (12339), 2, 1, 0; (12804), 2, 1, 0; (12817), 2, 1, 0; (13471), 6, 2, 18; (14160), 3, 1, 0; (16986), 2, 1, 0; (18109), 4, 1, 0; (18255), 3, 1, 0; (21755), 2, 1, 0; (24660), 3, 1, 0; (30977), 3, 1, 0; (31125), 2, 1, 0; (31942), 3, 1, 0; (34106), 3, 1, 0; (37141), 2, 1, 0; (40324), 3, 1, 0; (46556), 3, 1, 0; (48408), 3, 1, 0; (50000), 3, 1, 0; (50874), 3, 1, 0; (53616), 3, 1, 0; (55218), 3, 1, 0; (55313), 3, 1, 0; (55625), 3, 1, 0; (55725), 3, 1, 0; (56644), 2, 1, 0; (57415), 2, 1, 0; (59603), 3, 1, 0; (61170), 3, 1, 0; (62168), 3, 1, 0; (65397), 2, 1, 0; (65649), 3, 1, 0; (66395), 3, 1, 0; (67826), 3, 1, 0; (68504), 2, 1, 0; (73949), 3, 1, 0; (77164), 3, 1, 0; (81372), 2, 1, 0; (83612), 3, 1, 0; (84789), 3, 1, 0; (86551), 3, 1, 0; (88709), 2, 1, 0; (89391), 4, 2, 5; (90482), 4, 2, 17; (91377), 2, 1, 0; (126202), 2, 1, 0; (127163), 2, 1, 0; (130820), 3, 1, 0; (136472), 2, 1, 0; (138636), 2, 1, 0; (141971), 3, 1, 0; (142583), 3, 1, 0; (145163), 2, 1, 0; (161156), 3, 1, 0; (173706), 3, 1, 0; (183024), 3, 1, 0; (202504), 2, 1, 0; (222903), 2, 1, 0; (234491), 2, 1, 0; (247513), 2, 1, 0; (248340), 2, 1, 0; (248829), 2, 1, 0; (279116), 3, 1, 0; (279842), 3, 1, 0; (279903), 2, 1, 0; (284469), 3, 1, 0; (332830), 2, 1, 0; (366528), 3, 1, 0; (453730), 2, 1, 0; *[240, 85, 0*, 2015/12/23–2018/09/17]*

{16} 2018 PK_{23}, 3, 1, 0; 2018 QA_1, 2, 1, 0; (20790), 3, 1, 0; (63845), 3, 1, 0; (68347), 6, 2, 1; (77864), 3, 1, 0; (82520), 3, 1, 0; (308242), 2, 1, 0; *[25, 8, 0*, 2018/06/05–2018/08/22]*

{17} 2018 KB_4, 3, 1, 0; 2018 LJ, 2, 1, 0; 2018 LN, 3, 1, 0; 2018 LG_1, 2, 1, 0; *[10, 4, 0*, 2018/05/28–2018/06/06]*

{19} 2018 EJ_4, 3, 1, 0; 2018 JE_5, 3, 1, 0; 2018 LK, 3, 1, 0; 2018 LT_6, 3, 1, 0; 2018 NB, 2, 1, 0; 2018 NF_4, 2, 1, 0; 2018 PL_8, 2, 1, 0; (153957), 3, 1, 0; (216689), 3, 1, 0; *[24, 9, 0*, 2018/05/17–2018/08/09]*

{20} (489), 2, 1, 0; (1257), 2, 1, 0; (2060), 2, 1, 0; (10033), 2, 1, 0; (10660), 2, 1, 0; (60558), 2, 1, 0; (63024), 2, 1, 0; (76105), 2, 1, 0; (104626), 2, 1, 0; (158897), 2, 1, 0; (178982), 2, 1, 0; (210578), 2, 1, 0; (349933), 4, 2, 12; (517717), 2, 1, 0; *[30, 14, 0*, 2018/06/16–2018/08/20]*

{3} 2018 KH_2, 3, 1, 0; 2018 LK, 7, 2, 3; 2018 LD_3, 2, 1, 0; 2018 MB_7, 3, 1, 0; 2018 MM_8, 6, 2, 2; 2018 NA, 2, 1, 0; 2018 NB, 8, 1, 0; 2018 NE_1, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RT_{22}, 9, 3, 7; *[52, 12, 0*, 2018/06/05–2018/09/12]*

{9} 1998 SD_9, 3, 1, 0; 2018 LQ_3, 4, 2, 1; 2018 NB, 5, 1, 0; 2018 PB, 6, 1, 0; 2018 PH_{10}, 2, 1, 0; 2018 RB, 3, 1, 0; 2018 RQ_2, 3, 1, 0; (34), 3, 1, 0; (134), 2, 1, 0; (163), 2, 1, 0; (1567), 3, 1, 0; (2096), 2, 1, 0; (2632), 2, 1, 0; (3511), 3, 1, 0; (7632), 3, 1, 0; (11489), 3, 1, 0; (11549), 2, 1, 0; (12795), 2, 1, 0; (16041), 3, 1, 0; (24187), 3, 1, 0; (29028), 2, 1, 0; (44556), 3, 1, 0; (47944), 2, 1, 0; (48140), 3, 1, 0; (66339), 4, 1, 0; (69350), 3, 1, 0; (79012), 2, 1, 0; (81030), 3, 1, 0; (89602), 3, 1, 0; (92782), 3, 1, 0; (105118), 3, 1, 0; (110025), 3, 1, 0; (122504), 2, 1, 0; (148828), 2, 1, 0; (153356), 3, 1, 0; (154041), 2, 1, 0; (163619), 3, 1, 0; (193897), 3, 1, 0; (235040), 2, 1, 0; (288629), 3, 1, 0; *[113, 40, 0*, 2018/06/03–2018/09/20]*

G45 Space Surveillance Telescope, Atom Site
J. Ruprecht, MIT Lincoln Laboratory, 244 Wood St., Lexington, MA 02420, U.S.A.
[
Observers M. Blythe, G. Spitz, R. Brungard, J. Paige, P. Festler, T. McVey, A. Valdivia, C. Gall
3.6-m reflector + CCD
SSTRC1

1998 WT_{44}, 10, 2, 3; 1998 YP_{15}, 10, 2, 3; 2002 NG_{83}, 21, 2, 2; 2003 BQ_{42}, 10, 2, 3; 2003 BX_{94}, 11, 2, 3; 2003 DZ_{20}, 11, 2, 3; 2003 YY_8, 12, 2, 2; 2003 YL_{30}, 16, 2, 2; 2005 JJ_{63}, 9, 2, 3; 2006 AD_{13}, 35, 4, 3; 2007 CS_{18}, 12, 2, 3; 2007 CE_{65}, 11, 2, 3; 2007 TQ_{21}, 10, 2, 2; 2007 TQ_{404}, 19, 2, 3; 2009 BU_{13}, 8, 2, 3; 2009 SS_{243}, 23, 4, 3; 2010 AA_{17}, 11, 2, 3; 2010 AT_{91}, 9, 2, 2; 2010 AC_{102}, 15, 2, 1; 2010 AL_{118}, 9, 2, 1; 2010 CF_{152}, 8, 2, 3; 2010 CA_{186}, 19, 4, 10; 2010 DP_{21}, 9, 2, 1; 2010 DQ_{61}, 9, 2, 3; 2010 ET_{156}, 13, 2, 3; 2010 FP_{72}, 13, 2, 3; 2010 GU_{18}, 13, 2, 3; 2010 GV_{87}, 26, 4, 4; 2010 JA_{126}, 13, 2, 3; 2010 LG_{27}, 22, 4, 9; 2010 LQ_{36}, 20, 4, 3; 2010 VY_{163}, 8, 2, 3; 2011 FO_{36}, 13, 2, 3; 2011 JB_6, 10, 2, 3; 2012 AL_{10}, 15, 2, 3; 2012 DG_{86}, 12, 2, 3; 2012 FO_{44}, 9, 2, 3; 2012 FT_{61}, 10, 2, 3; 2012 UA_{68}, 10, 2, 3; 2012 XW_5, 13, 2, 3; 2012 YU_6, 10, 2, 3; 2013 BP_7, 4, 1, 0; 2013 NS_{27}, 8, 2, 1; 2013 PG_3, 4, 1, 0; 2013 PY_{76}, 10, 2, 3; 2013 TB_{165}, 13, 2, 1; 2014 OS_{389}, 11, 2, 3; 2014 QM_{339}, 15, 2, 3; 2014 QW_{470}, 12, 2, 3; 2014 SN_{282}, 13, 2, 3; 2014 SJ_{354}, 10, 2, 2; 2014 TU_{86}, 9, 2, 1; 2014 TT_{88}, 11, 2, 3; 2014 TX_{88}, 9, 2, 1; 2014 UA_{179}, 16, 2, 3; 2014 UX_{227}, 35, 6, 9; 2014 UB_{237}, 13, 2, 3; 2014 VF_{38}, 34, 6, 11; 2014 WM_{106}, 13, 2, 3; 2014 WF_{514}, 20, 4, 9; 2014 WZ_{514}, 9, 2, 1; 2014 WC_{515}, 13, 2, 1; 2014 WT_{521}, 10, 2, 3; 2014 WZ_{534}, 12, 2, 1; 2014 YJ_{51}, 17, 4, 4; 2014 YR_{52}, 9, 2, 2; 2014 YM_{54}, 8, 2, 2; 2014 YP_{57}, 8, 2, 2; 2014 YH_{58}, 22, 4, 3; 2014 YH_{59}, 21, 4, 7; 2015 AD_{283}, 9, 2, 2; 2015 AP_{284}, 20, 4, 3; 2015 AW_{284}, 10, 2, 2; 2015 AA_{292}, 8, 2, 2; 2015 BS_{519}, 11, 2, 1; 2015 BV_{519}, 9, 2, 1; 2015 BW_{519}, 9, 2, 3; 2015 BB_{520}, 8, 2, 1; 2015 BQ_{520}, 12, 2, 1; 2015 BE_{527}, 8, 2, 2; 2015 BV_{529}, 8, 2, 1; 2015 BK_{534}, 11, 2, 2; 2015 BE_{539}, 15, 2, 2; 2015 BS_{540}, 8, 2, 2; 2015 BN_{544}, 9, 2, 2; 2015 BE_{548}, 12, 2, 1; 2015 BQ_{548}, 30, 4, 3; 2015 BT_{548}, 9, 2, 2; 2015 BW_{548}, 10, 2, 1; 2015 BJ_{549}, 11, 2, 1; 2015 BP_{549}, 21, 4, 10; 2015 BR_{550}, 9, 2, 2; 2015 BF_{556}, 8, 2, 1; 2015 BC_{559}, 11, 2, 1; 2015 BT_{560}, 8, 2, 3; 2015 BT_{563}, 15, 2, 2; 2015 CF_{65}, 36, 6, 11; 2015 DT_{18}, 4, 1, 0; 2015 DC_{241}, 12, 2, 2; 2015 FM_{352}, 34, 6, 9; 2015 UR_{81}, 14, 2, 3; 2015 UD_{90}, 8, 2, 3; 2015 WV_{20}, 14, 2, 3; 2015 XY_{384}, 13, 2, 3; 2015 XM_{390}, 9, 2, 3; 2015 XV_{390}, 12, 2, 3; 2015 XT_{391}, 12, 2, 3; 2015 XY_{391}, 10, 2, 3; 2015 XM_{398}, 9, 2, 3; 2015 XM_{414}, 10, 2, 3; 2015 XU_{415}, 14, 2, 3; 2015 XB_{418}, 13, 2, 3; 2015 YM_4, 12, 2, 3; 2015 YZ_{20}, 9, 2, 3; 2016 AB_{82}, 11, 2, 3; 2016 AO_{123}, 12, 2, 3; 2016 AX_{123}, 11, 2, 3; 2016 AU_{180}, 13, 2, 3; 2016 AP_{181}, 11, 2, 3; 2016 AX_{194}, 9, 2, 3; 2016 AN_{225}, 10, 2, 3; 2016 AV_{231}, 15, 2, 3; 2016 AW_{246}, 15, 2, 3; 2016 AS_{260}, 9, 2, 3; 2016 AU_{277}, 10, 2, 3; 2016 BS_{36}, 10, 2, 3; 2016 BW_{81}, 9, 2, 3; 2016 BL_{86}, 12, 2, 3; 2016 BT_{87}, 11, 2, 2; 2016 BC_{90}, 11, 2, 1; 2016 CA_{18}, 8, 2, 3; 2016 CS_{42}, 13, 2, 3; 2016 CR_{112}, 11, 2, 3; 2016 CG_{230}, 13, 2, 3; 2016 CX_{231}, 8, 2, 3; 2016 CB_{239}, 9, 2, 3; 2016 CA_{242}, 12, 2, 3; 2016 CV_{248}, 14, 2, 3; 2016 CG_{249}, 15, 2, 3; 2016 CU_{255}, 14, 2, 3; 2016 CT_{264}, 9, 2, 3; 2016 CH_{266}, 10, 2, 3; 2016 CC_{297}, 8, 2, 3; 2016 CO_{304}, 16, 2, 1; 2016 CH_{319}, 13, 2, 1; 2016 DC, 11, 2, 3; 2016 DM, 9, 2, 3; 2016 DN, 13, 2, 3; 2016 DU_2, 13, 2, 3; 2016 DJ_6, 12,

2, 3; 2016 DS_6, 10, 2, 3; 2016 DR_{27}, 13, 2, 3; 2016 DY_{27}, 12, 2, 3; 2016 EX_2, 9, 2, 3; 2016 EO_{37}, 8, 2, 1; 2016 EC_{59}, 9, 2, 3; 2016 ES_{86}, 8, 2, 3; 2016 ET_{86}, 8, 2, 3; 2016 EH_{88}, 9, 2, 3; 2016 EP_{108}, 11, 2, 3; 2016 ER_{111}, 11, 2, 3; 2016 EX_{111}, 9, 2, 3; 2016 EC_{203}, 15, 2, 3; 2016 EV_{217}, 11, 2, 1; 2016 EX_{217}, 11, 2, 1; 2016 EQ_{227}, 10, 2, 2; 2016 EK_{236}, 13, 2, 2; 2016 EH_{240}, 9, 2, 2; 2016 FB_7, 9, 2, 3; 2016 GG_{220}, 12, 2, 3; 2016 GE_{236}, 10, 2, 1; 2016 JZ_{24}, 11, 2, 1; 2016 NB_{16}, 24, 4, 3; 2016 OU, 24, 4, 3; 2017 PU_{37}, 24, 4, 10; 2017 RW_{14}, 20, 2, 3; 2017 RJ_{68}, 12, 2, 2; 2017 SL_{48}, 10, 2, 1; 2017 UE_{20}, 20, 2, 1; 2017 VW_{31}, 16, 4, 3; 2018 HX, 10, 2, 1; 2018 MD_6, 9, 2, 2; (2281), 10, 2, 1; (4632), 11, 2, 1; (7040), 5, 1, 0; (9209), 9, 1, 0; (14163), 5, 1, 0; (16101), 8, 2, 1; (26370), 6, 1, 0; (26493), 7, 1, 0; (30600), 11, 2, 1; (41616), 5, 1, 0; (46848), 6, 1, 0; (48816), 13, 2, 1; (48908), 6, 1, 0; (49565), 14, 2, 1; (50566), 11, 2, 1; (53218), 4, 1, 0; (54336), 4, 1, 0; (56815), 11, 2, 1; (57260), 4, 1, 0; (62246), 11, 2, 1; (70078), 6, 1, 0; (90998), 8, 2, 1; (94052), 12, 2, 1; (114824), 4, 1, 0; (141739), 11, 2, 1; (145695), 13, 2, 1; (152620), 12, 2, 1; (162987), 10, 2, 1; (165683), 6, 1, 0; (180445), 10, 2, 1; (195407), 6, 1, 0; (234335), 5, 1, 0; (246647), 5, 1, 0; (247450), 6, 1, 0; (260071), 20, 3, 2; (277644), 4, 1, 0; (376148), 4, 1, 0; (464736), 9, 2, 3; (464832), 18, 2, 3; (464839), 10, 2, 3; (466956), 9, 2, 3; (467001), 9, 2, 3; (467002), 11, 2, 3; (467045), 9, 2, 3; (467053), 13, 2, 3; (467066), 16, 2, 3; (467169), 13, 2, 3; (467254), 12, 2, 3; (467461), 12, 2, 3; (467486), 16, 2, 3; (467629), 12, 2, 3; (468306), 11, 2, 3; (468307), 11, 2, 3; (468312), 13, 2, 3; (468320), 17, 2, 3; (468329), 8, 2, 3; (468360), 10, 2, 3; (471113), 11, 2, 3; (471518), 10, 2, 3; (473535), 8, 2, 3; (473963), 18, 2, 3; (473964), 13, 2, 3; (474080), 20, 2, 1; (487511), 10, 2, 3; (494013), 9, 2, 3; (494973), 11, 2, 3; (495731), 8, 2, 3; (495732), 8, 2, 3; (496669), 9, 2, 2; (503450), 9, 2, 3; (503514), 12, 2, 3; (503704), 11, 2, 1; (503811), 17, 2, 3; (505172), 12, 2, 3; (505262), 9, 2, 3; (506083), 9, 2, 3; (506112), 13, 2, 3; (508407), 8, 2, 1; (508613), 19, 2, 2; (508738), 11, 2, 1; (508919), 10, 2, 1; (512370), 9, 2, 2; (517648), 10, 2, 1; (518093), 9, 2, 3; (518094), 11, 2, 3; (518467), 8, 2, 3; (518687), 9, 2, 3; (518922), 9, 2, 3; (519127), 26, 4, 9; (519863), 9, 2, 1; (520706), 9, 2, 3; (520979), 28, 4, 3; (520986), 19, 4, 8; (521907), 11, 2, 3; (522090), 11, 2, 3; (522272), 11, 2, 3; (522470), 8, 2, 1; (522531), 12, 2, 1; (522672), 13, 2, 1; (523521), 14, 2, 1; (523562), 8, 2, 2; *[3348, 283, 0∗, 2015/01/16–2017/01/26]*

G48 Harlingten Research Observatory, Rancho Hildalgo

M. Mills, 3186 Danbury Drive W, Janesville, Wisconsin, U.S.A.
[mills@charter.net]

Observers C. Harlingten, M. Mills
0.40-m f/6.7 Ritchey-Chrétien + CCD
UCAC-4, UCAC-2

2011 GA_{62}, 5, 1, 0; 2018 JK_3, 3, 1, 0; 2018 KM_1, 3, 1, 0; 2018 LQ_3, 3, 1, 0; *[14, 4, 0∗, 2018/05/25–2018/06/23]*

G49 Minnetonka

D. Brandt, 2624 Cedar Crest Rd W, Minnetonka, Minnesota 55305, U.S.A.
[brandtdr@earthlink.net]

0.28-m f/10 reflector + CCD
UCAC-4, URAT-1

(39), 2, 1, 0; (130), 2, 1, 0; (660), 1, 1, 0; *[5, 3, 0∗, 2018/07/11–2018/08/10]*

G53 Alder Springs Observatory, Auberry

N. Teamo, BP 380493, F-98718 Punaauia-Tamanu, French Polynesia
[ateamo@mail.pf]

Observer K. Levin
Measurer N. Teamo
0.51-m f/8.51 Ritchey-Chrétien + 4096×4096 CCD
USNO-B2.0

2011 BP_{169}, 3, 1, 0; *[3, 1, 0∗, 2011/02/13]*

G58 Chabot Space and Science Center, Oakland

G. McKeegan, Chabot Space and Science Center, 10000 Skyline Blvd., Oakland, CA 94619, U.S.A. [geraldspace@earthlink.net]

Observers G. McKeegan, C. Jung
0.9-m f/4.5 Cassegrain + CCD
PPMXL, UCAC-4

2018 JQ_1, 3, 1, 0; 2018 JY_1, 3, 1, 0; 2018 JJ_2, 6, 2, 6; 2018 JJ_3, 3, 1, 0; 2018 JE_5, 3, 1, 0; 2018 KL_2, 3, 1, 0; 2018 LC_1, 3, 1, 0; 2018 LN_2, 3, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LV_3, 6, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LG_5, 3, 1, 0; 2018 LH_5, 3, 1, 0; 2018 MW_6, 3, 1, 0; (68347), 7, 2, 29; (139345), 3, 1, 0; *[58, 16, 0∗, 2018/05/28–2018/07/10]*

G83 Mt. Graham-LBT

E. Ryan, 259 N Holliston Ave, Apt 3 Pasadena, CA 91106, U.S.A.
[erinleeryan@gmail.com] (1)

2014 RO_{38}, 3, 1, 0; *[3, 1, 0∗, 2007/01/25]*

G84 Mount Lemmon SkyCenter

A. Block, no details supplied [ablock@as.arizona.edu]

0.6-m f/7.8 reflector + CCD
UCAC-2

2017 OJ_{34}, 3, 1, 0; *[3, 1, 0∗, 2012/09/26]*

G92 Jarnac Observatory, Vail

D. H. Levy, 2500 E. Wetstones Rd., Vail, AZ 85641, U.S.A. [david@jarnac.org]

Observers D. H. Levy, W. Levy, T. Glinos
0.64-m f/7.2 Ritchey-Chrétien + CCD
USNO-A2.0

2007 WG_{65}, 3, 1, 0; 2010 QN_7, 3, 1, 0; 2010 VJ_{228} ∗, 3, 1, 0; 2014 QV_{482}, 3, 1, 0; *[12, 4, 1∗, 2008/01/10–2010/11/06]*

G96 Mt. Lemmon Survey

E. Beshore, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A.
[ebeshore@lpl.arizona.edu]

Observers A. D. Grauer, R. A. Kowalski, G. J. Leonard, S. M. Larson, D. C. Fuls, B. M. Africano, E. J. Christensen, H. Groeller, J. A. Johnson
Measurers B. M. Africano, E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. L. Seaman, F. C. Shelly, M. Micheli, G. A. Farneth
1.5-m reflector + CCD
Gaia-DR1, UCAC-4, Gaia-DR2

1977 RS, 39, 10, 4808; 1994 GD_2, 4, 1, 0; 1994 PF_{31}, 32, 8, 4127; 1994 RE_3, 8, 2, 7; 1995 MS_2, 4, 1, 0; 1995 OQ_{15}, 4, 1, 0; 1995 QG_{17}, 12, 2, 1980; 1995 SS_9, 12, 2, 1559; 1995 SR_{14}, 8, 2, 6; 1995 SA_{21}, 4, 1, 0; 1995 SW_{81}, 20, 4, 2069; 1995 SM_{90}, 15, 3, 2022; 1995 SN_{90}, 8, 2, 27; 1995 TW_4, 4, 1, 0; 1995 TX_{12}, 12, 2, 485; 1995 UL_{21}, 4, 1, 0; 1995 UK_{54}, 4, 1, 0; 1995 UO_{70}, 4, 1, 0; 1995 UY_{74}, 28, 6, 4284; 1996 BZ_5, 20, 4, 4695; 1996 EN_{16}, 21, 5, 1032; 1996 FQ_9, 4, 1, 0; 1996 TO_{11}, 4, 1, 0; 1996 TU_{16}, 3, 1, 0; 1996 TY_{31}, 4, 1, 0; 1996 TF_{32}, 16, 4, 1390; 1996 TY_{36}, 28, 7, 4318; 1996 VJ_{12}, 12, 3, 2825; 1996 VB_{32}, 16, 4, 2551; 1996 VD_{42}, 4, 1, 0; 1996 XR_{27}, 4, 1, 0; 1997 SF_7, 8, 2, 6; 1997 SN_{15}, 4, 1, 0; 1997 SV_{26}, 4, 1, 0; 1997 UE_{17}, 4, 1, 0; 1997 UF_{23}, 4, 1, 0; 1997 WF_{13}, 4, 1, 0; 1998 GE_{13}, 11, 3, 1002; 1998 QA_{107}, 8, 2, 7; 1998 QA_{112}, 4, 1, 0; 1998 QB_{112}, 23, 5, 2522; 1998 RM_{81}, 24, 6, 2448; 1998 RN_{81}, 4, 1, 0; 1998 RO_{81}, 8, 2, 20; 1998 SR_{51}, 4, 1, 0; 1998 SV_{173}, 28, 7, 4110; 1998 TT_{38}, 24, 6, 3994; 1998 UR_{11}, 7, 2, 6; 1998 UB_{51}, 12, 3, 38; 1998 UD_{51}, 24, 6, 3490; 1998 UE_{51}, 8, 2, 20; 1998 UF_{51}, 34, 9, 3744; 1998 UG_{51}, 32, 8, 4040; 1998 WK_{46}, 8, 2, 3347; 1998 YP_{15}, 8, 2, 1; 1999 FN_{19}, 3, 1, 0; 1999 FP_{19}, 4, 1, 0; 1999 FW_{75}, 19, 5, 2463; 1999 LK_1, 4, 1, 0; 1999 RB_{32}, 4, 1, 0; 1999 TX_{66}, 20, 5, 2844; 1999 TT_{81}, 8, 2, 6; 1999 TL_{225}, 28, 7, 4333; 1999 UP_{46}, 3, 1, 0; 1999 VQ_{11}, 4, 1, 0; 1999 VL_{76}, 4, 1, 0; 1999 VE_{83}, 8, 2, 7; 1999 WH_{23}, 12, 3, 8; 1999 XA_{255}, 4, 1, 0; 2000 CK_{143}, 12, 3, 44; 2000 CL_{144}, 4, 1, 0; 2000 CV_{150}, 12, 3, 1447; 2000 DX_{67}, 4, 1, 0; 2000 EG_{104}, 8, 2, 8; 2000 EG_{161}, 4, 1, 0; 2000 FQ_{70}, 27, 7, 3981; 2000 GH_{182}, 8, 2, 7; 2000 HU_{102}, 4, 1, 0; 2000 JX_{89}, 19, 5, 4652; 2000 KV_{38}, 4, 1, 0; 2000 OA_{22}, 12, 3, 84; 2000 PF_4, 4, 1, 0; 2000 QG_{166}, 12, 3, 86; 2000 RQ_{76}, 4, 1, 0; 2000 RS_{77}, 4, 1, 0; 2000 SB_1, 4, 1, 0; 2000 SF_{21}, 4, 1, 0; 2000 SR_{94}, 12, 3, 938; 2000 SE_{135}, 4, 1, 0; 2000 SO_{185}, 4, 1, 0; 2000 SB_{236}, 4, 1, 0; 2000 SE_{377}, 28, 7, 3607; 2000 SF_{377}, 20, 5, 2771; 2000 TB_{12}, 8, 2, 7; 2000 TM_{15}, 8, 2, 7; 2000 UQ_{35}, 43, 11, 3527; 2000 UC_{96}, 4, 1, 0; 2000 WE_{196}, 8, 2, 7; 2001 DP_{81}, 8, 2, 8; 2001 FF_{90}, 4, 1, 0; 2001 FS_{151}, 8, 2, 17; 2001 FR_{207}, 8, 2, 8; 2001 KF_{18}, 12, 3, 80; 2001 KA_{55}, 8, 2, 5; 2001 LO, 4, 1, 0; 2001 LC_9, 16, 4, 4752; 2001 MA_5, 12, 3, 86; 2001 ND_1, 4, 1, 0; 2001 NW_1, 7, 2, 2; 2001 OD_3, 4, 1, 0; 2001 OX_{12}, 8, 2, 89; 2001 OC_{38}, 3, 1, 0; 2001 OV_{38}, 4, 1, 0; 2001 OD_{40}, 4, 1, 0; 2001 OO_{41}, 4, 1, 0; 2001 OK_{59}, 4, 1, 0; 2001 OK_{69}, 4, 1, 0; 2001 OZ_{82}, 4, 1, 0; 2001 OX_{108}, 4, 1, 0; 2001 PX_3, 4, 1, 0; 2001 PA_4, 3, 1, 0; 2001 PO_{10}, 11, 3, 90; 2001 PC_{15}, 8, 2, 88; 2001 PN_{16}, 4, 1, 0; 2001 PX_{16}, 8, 2, 91; 2001 PM_{31}, 4, 1, 0; 2001 PA_{32}, 7, 2, 1; 2001 PU_{58}, 4, 1, 0; 2001 PH_{67}, 8, 2, 89; 2001 PU_{67}, 12, 3, 8; 2001 QJ_9, 4, 1, 0; 2001 QC_{45}, 4, 1, 0; 2001 QN_{50}, 8, 2, 79; 2001 QL_{89}, 4, 1, 0; 2001 QQ_{95}, 4, 1, 0; 2001 QQ_{102}, 4, 1, 0; 2001 QQ_{106}, 4, 1, 0;

2001 QW_{130}, 4, 1, 0; 2001 QJ_{141}, 4, 1, 0; 2001 QA_{143}, 4, 1, 0; 2001 QU_{158}, 4, 1, 0; 2001 QE_{170}, 8, 2, 89; 2001 QF_{178}, 4, 1, 0; 2001 QS_{182}, 4, 1, 0; 2001 QU_{190}, 4, 1, 0; 2001 QP_{202}, 4, 1, 0; 2001 QW_{276}, 4, 1, 0; 2001 QP_{281}, 4, 1, 0; 2001 QH_{327}, 4, 1, 0; 2001 QU_{327}, 4, 1, 0; 2001 QC_{333}, 8, 2, 8; 2001 QY_{334}, 8, 2, 5; 2001 RX_2, 4, 1, 0; 2001 RF_{20}, 4, 1, 0; 2001 RK_{21}, 4, 1, 0; 2001 RH_{33}, 3, 1, 0; 2001 RY_{39}, 8, 2, 8; 2001 RR_{41}, 4, 1, 0; 2001 RR_{54}, 8, 2, 7; 2001 RN_{57}, 7, 1, 0; 2001 RE_{59}, 12, 2, 88; 2001 RL_{97}, 3, 1, 0; 2001 RB_{105}, 8, 2, 7; 2001 RO_{115}, 4, 1, 0; 2001 SO_{32}, 4, 1, 0; 2001 SK_{42}, 8, 2, 1380; 2001 SL_{42}, 4, 1, 0; 2001 SM_{83}, 4, 1, 0; 2001 SL_{87}, 8, 2, 6; 2001 ST_{92}, 4, 1, 0; 2001 SB_{93}, 8, 2, 7; 2001 SD_{95}, 4, 1, 0; 2001 ST_{97}, 8, 2, 6; 2001 SE_{99}, 4, 1, 0; 2001 SJ_{114}, 8, 1, 0; 2001 SE_{145}, 4, 1, 0; 2001 SC_{160}, 4, 1, 0; 2001 SC_{170}, 20, 5, 84; 2001 SX_{180}, 4, 1, 0; 2001 ST_{198}, 8, 2, 7; 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H01 Magdalena Ridge Observatory, Socorro

W. H. Ryan, Magdalena Ridge Observatory, New Mexico Tech, Socorro, NM 87801, U.S.A. [bryan@nmt.edu]

Observers W. H. Ryan, E. V. Ryan

2.4-m $f/8.9$ reflector + CCD

Gaia-DR2

2018 HU_3, 4, 1, 0; 2018 KG_3, 4, 1, 0; 2018 KH_3, 4, 1, 0; 2018 LA_{16}, 4, 1, 0; 2018 LC_{16}, 4, 1, 0; 2018 MQ_6, 4, 1, 0; 2018 MR_6, 4, 1, 0; 2018 MW_6, 4, 1, 0; 2018 MX_6, 8, 1, 0; 2018 MZ_6, 8, 2, 1; 2018 MB_7, 4, 1, 0; 2018 MD_7, 8, 2, 1; 2018 ME_7, 4, 1, 0; 2018 MK_7, 4, 1, 0; 2018 MN_8, 4, 1, 0; *[72, 15, 0*, 2018/04/23–2018/06/28]*

H06 iTelescope Observatory, Mayhill

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D. Denisenko, no details supplied [d.v.denisenko@gmail.com] (66)

Observers M. Urbanik, P. S. Lau, A. Manannikov, K. Sokolovsky, H. Sato, M. Suzuki, M. Mattiazzo, A. S. Betzler, B. Lütkenhöner, E. Agarwal, L. Carpenter, P. Luljak, D. Saunders, I. Chung-Halpern, N. Ma, B. Wang, D. Zhu, R. Kumar, J. Lloyd, M. Pandit, A. Venkatraman, S. M. Tilley, E. Bryssinck, W. Clark, D. Denisenko

0.43-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.25-m $f/3.4$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer

UCAC-4, UCAC-3, NOMAD, Gaia-DR2, PPMXL, USNO-B1.0, Gaia-DR1, USNO-A2.0, URAT-1

{12} 2018 LQ_3, 3, 1, 0; 2018 PK_{23}, 2, 1, 0; 2018 QW_1, 3, 1, 0; 2018 RD_5, 2, 1, 0; 2018 RY_5, 3, 1, 0; *[13, 5, 0*, 2018/06/11–2018/09/13]*

{20} 2012 KV_{52}, 3, 1, 0; *[3, 1, 0*, 2011/03/01]*

{58} 1998 SD_9, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QG_1, 3, 1, 0; 2018 RQ_1, 3, 1, 0; 2018 RP_8, 4, 1, 0; (80076), 3, 1, 0; (206176), 3, 1, 0; *[22, 7, 0*, 2018/08/14–2018/09/17]*

{66} 2018 RY_5, 3, 1, 0; *[3, 1, 0*, 2018/09/13]*

{32} 2018 KH_3, 3, 1, 0; (254), 3, 1, 0; (851), 2, 1, 0; (1646), 2, 1, 0; (3615), 2, 1, 0; (3702), 2, 1, 0; (21028), 2, 1, 0; (26188), 2, 1, 0; (44700), 2, 1, 0; (181240), 3, 1, 0; *[23, 10, 0*, 2010/10/07–2018/09/13]*

H07 7300 Observatory, Cloudcroft

W. K. Y. Yeung, 139 Sandringham Place NW, Calgary, AB T3K 3V8, Canada [microplanet333@yahoo.com]

0.45-m $f/3$ Schmidt-Cassegrain + CCD

USNO-A2.0

2007 VB_{341}, 2, 1, 0; 2018 RV_4, 3, 1, 0; *[5, 2, 0*, 2008/01/01–2014/10/26]*

H11 LightBuckets Observatory, Rodeo
S. G. Cullen, P.O. Box 54, Rodeo, NM 88056, U.S.A. [steve@cullenaz.com]
Observer T. Luce
0.61-m $f/8$ Ritchey-Chrétien + CCD
USNO-B1.0
2008 OA_{26}, 2, 1, 0; *[2, 1, 0*, 2010/03/18]*

H15 ISON-NM Observatory, Mayhill
L. Elenin, 47-17 8th March St., Lyubertsy, Moscow region, 140007 Russia
[l.elenin@gmail.com]
0.4-m $f/3$ reflector + CCD
UCAC-4

2001 RE_{59}, 3, 1, 0; 2001 SA_{357}, 4, 1, 0; 2002 OB_{20}, 3, 1, 0; 2002 QU_6, 3, 1, 0; 2003 SA_{436}, 4, 1, 0; 2003 WV_{195}, 4, 1, 0; 2004 FZ_{166}, 4, 1, 0; 2005 FV_{16}, 4, 1, 0; 2005 NL_{43}, 3, 1, 0; 2005 RM_{16}, 3, 1, 0; 2005 SP_{294}, 4, 1, 0; 2005 TZ_{198}, 4, 1, 0; 2005 UJ_{533}, 4, 1, 0; 2006 DW_{219}, 4, 1, 0; 2006 SR_{422}, 4, 1, 0; 2006 TL_{133}, 4, 1, 0; 2006 WJ_{208}, 3, 1, 0; 2006 YS_{13}, 3, 1, 0; 2007 BN_{103}, 4, 1, 0; 2007 DK_{119}, 4, 1, 0; 2007 HA_{100}, 4, 1, 0; 2007 JE_{47}, 4, 1, 0; 2007 OH_2, 3, 1, 0; 2007 RN_{329}, 3, 1, 0; 2007 UO_{143}, 4, 1, 0; 2007 VR_{340}, 4, 1, 0; 2007 YA_{76}, 4, 1, 0; 2008 AX_{139}, 4, 1, 0; 2008 BH_{55}, 3, 1, 0; 2008 DJ_{90}, 4, 1, 0; 2008 OL_{22}, 3, 1, 0; 2008 TP_{193}, 4, 1, 0; 2008 UV_{28}, 3, 1, 0; 2008 UR_{375}, 4, 1, 0; 2008 VR_{82}, 3, 1, 0; 2009 HP_{110}, 3, 1, 0; 2010 GJ_{17}, 4, 1, 0; 2010 JA_{19}, 3, 1, 0; 2010 KX_{43}, 3, 1, 0; 2010 RZ_{189}, 3, 1, 0; 2010 SB_{28}, 3, 1, 0; 2010 SC_{45}, 3, 1, 0; 2010 SF_{45}, 4, 1, 0; 2010 TM_{195} *, 3, 1, 0; 2010 TP_{195} *, 4, 1, 0; 2010 WJ_{75}, 6, 2, 25; 2011 BR_{169}, 4, 1, 0; 2011 BW_{169}, 4, 1, 0; 2011 DO_{53}, 4, 1, 0; 2011 FQ_{56}, 3, 1, 0; 2011 GX_{90} *, 4, 1, 0; 2011 OX_{60}, 3, 1, 0; 2011 OB_{61}, 3, 1, 0; 2011 PJ_{16}, 4, 1, 0; 2011 RO_{21}, 3, 1, 0; 2011 YW_{28}, 3, 1, 0; 2011 YT_{80}, 4, 1, 0; 2011 YD_{81}, 4, 1, 0; 2012 DZ_{105}, 4, 1, 0; 2012 DG_{106} *, 8, 2, 28; 2012 EF_{20}, 3, 1, 0; 2012 FA_{87}, 4, 1, 0; 2012 JP_{17}, 3, 1, 0; 2012 KW_{52}, 4, 1, 0; 2012 MT_{16}, 4, 1, 0; 2012 QJ_{54}, 4, 1, 0; 2012 UW_{184} *, 4, 1, 0; 2013 TU_{171}, 4, 1, 0; 2013 XD_{28}, 4, 1, 0; 2013 YH_{155}, 4, 1, 0; 2014 DS_{155}, 4, 1, 0; 2014 JF_{92}, 4, 1, 0; 2014 LC_{10}, 3, 1, 0; 2014 NX_2, 3, 1, 0; 2014 OC_{307}, 4, 1, 0; 2014 PT_{60}, 3, 1, 0; 2014 QH_{403}, 3, 1, 0; 2014 QS_{476}, 4, 1, 0; 2014 QK_{484}, 3, 1, 0; 2014 QM_{486}, 3, 1, 0; 2014 QG_{492} *, 4, 1, 0; 2014 SO_{201}, 4, 1, 0; 2014 WR_{279}, 3, 1, 0; 2014 WP_{390}, 4, 1, 0; 2014 WK_{535}, 4, 1, 0; 2014 YR_{13}, 3, 1, 0; 2014 YF_{42}, 3, 1, 0; 2014 YH_{64}, 4, 1, 0; 2015 AW_{277}, 3, 1, 0; 2015 TP_{144}, 3, 1, 0; 2015 TR_{386}, 4, 1, 0; 2015 UO_{77}, 3, 1, 0; 2015 XZ_{421}, 4, 1, 0; 2016 AS_{123}, 4, 1, 0; 2017 BM_{35}, 3, 1, 0; 2017 DO_{107}, 3, 1, 0; 2017 DB_{118}, 3, 1, 0; 2017 FK_{10}, 3, 1, 0; 2017 NC_5, 3, 1, 0; 2018 GR_7, 3, 1, 0; 2018 PB, 3, 1, 0; 2018 PM_{17}, 4, 1, 0; 2018 RT, 3, 1, 0; 2018 RU_4, 4, 1, 0; 2018 RM_{11}, 3, 1, 0; 2018 RL_{13}, 4, 1, 0; 2018 RZ_{14}, 4, 1, 0; (33), 3, 1, 0; (46), 3, 1, 0; (58), 3, 1, 0; (63), 3, 1, 0; (76), 3, 1, 0; (77), 3, 1, 0; (83), 3, 1, 0; (84), 6, 1, 0; (113), 3, 1, 0; (131), 3, 1, 0; (156), 3, 1, 0; (160), 3, 1, 0; (233), 6, 2, 10; (235), 3, 1, 0; (240), 3, 1, 0; (242), 3, 1, 0; (244), 3, 1, 0; (252), 3, 1, 0; (256), 3, 1, 0; (269), 3, 1, 0; (271), 3, 1, 0; (279), 3, 1, 0; (294), 3, 1, 0; (305), 3, 1, 0; (315), 3, 1, 0; (369), 3, 1, 0; (391), 3, 1, 0; (393), 3, 1, 0; (395), 3, 1, 0; (408), 3, 1, 0; (412), 3, 1, 0; (415), 3, 1, 0; (445), 6, 2, 35; (453), 3, 1, 0; 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Observer R. Holmes

Measurers S. Foglia, L. Buzzi, T. Linder, R. Holmes, T. Vorobjov

0.76-m f/3.0 astrograph + CCD, 0.81-m f/4.0 astrograph + CCD, 0.61-m f/4.0 astrograph + CCD, 1.3-m f/4.0 astrograph + CCD

UCAC-3, Gaia-DR2, UCAC-4

1998 KH_{9}, 3, 1, 0; 2000 GB_{2}, 3, 1, 0; 2000 YF_{29}, 3, 1, 0; 2001 QQ_{106}, 5, 1, 0; 2001 SC_{170}, 3, 1, 0; 2001 YO_{3}, 5, 2, 16; 2002 LX, 3, 1, 0; 2003 RC_{2}, 3, 1, 0; 2005 EZ_{29}, 9, 3, 16; 2005 RB, 4, 2, 4; 2006 FE, 3, 1, 0; 2006 KZ_{145}, 4, 1, 0; 2006 QM_{33}, 7, 1, 0; 2006 SJ_{198}, 3, 1, 0; 2006 SV_{424}, 3, 1, 0; 2006 TH_{7}, 3, 1, 0; 2006 UQ_{363}, 3, 1, 0; 2007 EM, 3, 1, 0; 2007 LT, 3, 1, 0; 2007 RV_{331}, 3, 1, 0; 2007 RE_{332}, 4, 1, 0; 2007 TK_{8}, 3, 1, 0; 2007 UA_{2}, 3, 1, 0; 2007 VC_{341}, 4, 1, 0; 2007 VC_{342}, 4, 1, 0; 2008 OP_{8}, 6, 2, 7; 2008 PV_{22}, 3, 1, 0; 2008 TQ_{2}, 3, 1, 0; 2008 UT_{375}, 3, 1, 0; 2008 VB_{1}, 3, 1, 0; 2008 WN_{2}, 3, 1, 0; 2009 EB_{2}, 3, 1, 0; 2009 ME_{9}, 6, 2, 7; 2009 UX_{17}, 5, 2, 4; 2010 BB_{3}, 3, 1, 0; 2010 ED_{43}, 3, 1, 0; 2010 GC_{35}, 3, 1, 0; 2010 QN_{7} *, 3, 1, 0; 2010 SH_{13}, 3, 1, 0; 2010 TG_{195} *, 3, 1, 0; 2010 TN_{195}, 3, 1, 0; 2010 VB_{72}, 6, 2, 3; 2010 WP_{8}, 9, 3, 56; 2011 ET_{4}, 3, 1, 0; 2011 QS_{21}, 3, 1, 0; 2011 SR_{5}, 6, 2, 2; 2011 TX_{8}, 3, 1, 0; 2011 UJ_{418}, 4, 1, 0; 2011 UO_{418}, 4, 1, 0; 2012 BQ_{159}, 3, 1, 0; 2012 DJ_{4}, 5, 2, 1; 2012 HL, 3, 1, 0; 2012 MU_{2}, 3, 1, 0; 2012 OZ, 3, 1, 0; 2012 PR_{45}, 3, 1, 0; 2012 TZ_{52}, 3, 1, 0; 2012 UG_{184}, 3, 1, 0; 2012 XC_{55}, 6, 2, 6; 2013 AU_{76}, 3, 1, 0; 2013 DP_{17} *, 4, 1, 0; 2013 MR, 8, 3, 60; 2013 NT_{11}, 3, 1, 0; 2013 OH, 3, 1, 0; 2013 OW_{2}, 3, 1, 0; 2013 PA_{7}, 2, 1, 0; 2013 PY_{83}, 3, 1, 0; 2013 SS_{19}, 3, 1, 0; 2013 SF_{102}, 4, 1, 0; 2013 TS_{132}, 10, 3, 55; 2013 WM_{90}, 6, 1, 0; 2013 YB_{38}, 13, 5, 44; 2014 FD_{7}, 3, 1, 0; 2014 JR_{25}, 3, 1, 0; 2014 MD_{55}, 2, 1, 0; 2014 ON_{344}, 6, 2, 5; 2014 QZ_{477}, 3, 1, 0; 2014 SK_{260}, 3, 1, 0; 2014 SD_{324}, 3, 1, 0; 2014 UV, 19, 7, 33; 2014 UF_{176}, 3, 1, 0; 2015 BP_{4}, 3, 1, 0; 2015 BV_{92}, 9, 3, 3; 2015 BW_{92}, 3, 1, 0; 2015 DP_{58}, 3, 1, 0; 2015 DV_{180}, 6, 2, 1; 2015 FT_{414} *, 3, 1, 0; 2015 GG, 3, 1, 0; 2015 HF_{11}, 11, 4, 10; 2015 JP, 16, 6, 13; 2015 MF_{60}, 3, 1, 0; 2015 RO_{277}, 3, 1, 0; 2015 SO_{2}, 3, 1, 0; 2015 SW_{6}, 15, 3, 2; 2015 VL_{105}, 9, 3, 2; 2015 XP_{55}, 12, 4, 18; 2015 XB_{348}, 3, 1, 0; 2015 XT_{389}, 3, 1, 0; 2015 YP_{10}, 7, 2, 8; 2016 EE_{158}, 8, 3, 30; 2016 HX_{3}, 2, 1, 0; 2016 JH_{12}, 3, 1, 0; 2016 JJ_{24}, 2, 1, 0; 2016 LM_{11}, 3, 1, 0; 2016 LE_{51}, 9, 3, 3; 2016 LT_{65}, 3, 1, 0; 2016 RO_{1}, 2, 1, 0; 2016 RY_{40}, 8, 2, 7; 2016 TE_{93}, 3, 1, 0; 2016 XD_{1}, 9, 3, 12; 2016 YE_{3}, 3, 1, 0; 2017 DZ_{105}, 3, 1, 0; 2017 GT_{5}, 9, 3, 11; 2017 MT_{8}, 5, 2, 8; 2017 MU_{8}, 6, 2, 3; 2017 QG_{33}, 3, 1, 0; 2017 QX_{34}, 3, 1, 0; 2017 SB_{14}, 15, 5, 14; 2017 TQ_{3}, 2, 1, 0; 2017 WL_{1}, 5, 2, 3; 2017 WH_{14}, 3, 1, 0; 2017 WC_{29}, 2, 1, 0; 2017 XJ_{62}, 8, 3, 34; 2018 CA, 3, 1, 0; 2018 EE, 3, 1, 0; 2018 EJ_{2}, 3, 1, 0; 2018 EW_{3}, 5, 2, 4; 2018 EQ_{4}, 3, 1, 0; 2018 FY, 3, 1, 0; 2018 FB_{1}, 3, 1, 0; 2018 FC_{1}, 3, 1, 0; 2018 FF_{1}, 4, 2, 33; 2018 FD_{3}, 3, 1, 0; 2018 FL_{3}, 3, 1, 0; 2018 FP_{3}, 6, 2, 2; 2018 FO_{5}, 9, 3, 16; 2018 FK_{29}, 3, 1, 0; 2018 GD, 3, 1, 0; 2018 GL, 9, 3, 5; 2018 GV, 3, 1, 0; 2018 GQ_{1}, 3, 1, 0; 2018 GA_{2}, 3, 1, 0; 2018 GA_{4}, 3, 1, 0; 2018 GB_{4}, 6, 2, 40; 2018 GE_{4}, 3, 1, 0; 2018 GM_{4}, 15, 5, 13; 2018 GA_{5}, 23, 4, 61; 2018 HS_{1}, 2, 1, 0; 2018 HJ_{2}, 3, 1, 0; 2018 JF, 3, 1, 0; 2018 JO_{1}, 3, 1, 0; 2018 JQ_{1}, 11, 4, 49; 2018 JS_{1}, 21, 7, 94; 2018 JW_{1}, 3, 1, 0; 2018 JY_{1}, 3, 1, 0; 2018 JC_{2}, 3, 1, 0; 2018 JF_{2}, 3, 1, 0; 2018 JG_{2}, 9, 3, 49; 2018 JH_{2}, 3, 1, 0; 2018 JJ_{2}, 8, 3, 47; 2018 JZ_{2}, 12, 4, 21; 2018 JC_{3}, 32, 8, 71; 2018 JE_{5}, 9, 3, 65; 2018 KH, 11, 4, 5; 2018 KL, 3, 1, 0; 2018 KP, 3, 1, 0; 2018 KT, 5, 2, 26; 2018 KV, 21, 7, 81; 2018 KD_{1}, 9, 3, 3; 2018 KM_{1}, 5, 1, 0; 2018 KN_{1}, 3, 1, 0; 2018 KP_{1}, 6, 2, 2; 2018 KQ_{1}, 5, 2, 2; 2018 KX_{1}, 3, 1, 0; 2018 KP_{2}, 5, 1, 0; 2018 KS_{2}, 3, 1, 0; 2018 KC_{3}, 3, 1, 0; 2018 KD_{3}, 6, 2, 33; 2018 KE_{3}, 53, 5, 13; 2018 LB, 3, 1, 0; 2018 LG, 7, 3, 3; 2018 LJ, 3, 1, 0; 2018 LL, 3, 1, 0; 2018 LM, 4, 1, 0; 2018 LN, 13, 2, 18; 2018 LT, 3, 1, 0; 2018 LG_{1}, 13, 4, 6; 2018 LL_{2}, 8, 3, 6; 2018 LQ_{2}, 78, 20, 72; 2018 LR_{2}, 5, 1, 0; 2018 LY_{2}, 3, 1, 0; 2018 LB_{3}, 4, 1, 0; 2018 LE_{3}, 5, 2, 15; 2018 LF_{3}, 3, 1, 0; 2018 LG_{3}, 3, 1, 0; 2018 LO_{3}, 9, 3, 2; 2018 LE_{4}, 3, 1, 0; 2018 LF_{4}, 3, 1, 0; 2018 LS_{4}, 3, 1, 0; 2018 LF_{5}, 13, 4, 17; 2018 LG_{5}, 6, 2, 2; 2018 LH_{5}, 8, 2, 10; 2018 LL_{5}, 2, 1, 0; 2018 LN_{5}, 3, 1, 0; 2018 LP_{5}, 10, 3, 21; 2018 LU_{5}, 3, 1, 0; 2018 LV_{5}, 2, 1, 0; 2018 LY_{5}, 9, 3, 33; 2018 LZ_{5}, 31, 9, 69; 2018 LH_{6}, 3, 1, 0; 2018 LJ_{6}, 3, 1, 0; 2018 LS_{6}, 3, 1, 0; 2018 LZ_{13}, 3, 1, 0; 2018 LP_{15}, 3, 1, 0; 2018 LS_{15}, 3, 1, 0; 2018 LT_{15}, 6, 2, 3; 2018 LV_{15}, 6, 2, 3; 2018 LC_{16}, 3, 1, 0; 2018 LF_{16}, 3, 1, 0; 2018 MA, 3, 1, 0; 2018 MB, 3, 1, 0; 2018 MH, 34, 11, 49; 2018 MJ, 2, 1, 0; 2018 MF_{4}, 3, 1, 0; 2018 MU_{4}, 5, 2, 2; 2018 MV_{4}, 3, 1, 0; 2018 MY_{4}, 6, 2, 4; 2018 MA_{5}, 3, 1, 0; 2018 MB_{5}, 3, 1, 0; 2018 ME_{5}, 3, 1, 0; 2018 MF_{5}, 3, 1, 0; 2018 MG_{5}, 6, 2, 5; 2018 MQ_{5}, 3, 1, 0; 2018 MQ_{6}, 2, 1, 0; 2018 MR_{6}, 5, 2, 14; 2018 MS_{6}, 27, 9, 43; 2018 MW_{6}, 12, 4, 37; 2018 MX_{6}, 9, 3, 12; 2018 MB_{7}, 13, 2, 9; 2018 MC_{7}, 2, 1, 0; 2018 ME_{7}, 9, 3, 9; 2018 MJ_{7}, 17, 5, 16; 2018 MK_{8}, 2, 1, 0; 2018 MM_{8}, 47, 10, 62; 2018 MP_{8}, 2, 1, 0; 2018 MR_{8}, 17, 4, 37; 2018 NA, 12, 2, 1; 2018 NB, 67, 8, 62; 2018 NC, 3, 1, 0; 2018 ND, 4, 1, 0; 2018 NE, 6, 2, 36; 2018 NF, 3, 1, 0; 2018 NH, 11, 4, 12; 2018 NL, 3, 1, 0; 2018 NN, 44, 14, 69; 2018 NP, 3, 1, 0; 2018 NQ, 22, 2, 1; 2018 NR, 35, 12, 70; 2018 NS, 2, 1, 0; 2018 NT, 3, 1, 0; 2018 NV, 30, 5, 6; 2018 NW, 8, 1, 0; 2018 NY, 9, 3, 9; 2018 NZ, 3, 1, 0; 2018 NB_{1}, 3, 1, 0; 2018 NC_{1}, 3, 1, 0; 2018 ND_{1}, 4, 1, 0; 2018 NG_{1}, 3, 1, 0; 2018 NH_{1}, 3, 1, 0; 2018 NK_{1}, 6, 2, 1; 2018 NN_{1}, 10, 4, 24; 2018 NO_{1}, 30, 10, 66; 2018 NP_{1}, 6, 2, 1; 2018 NS_{1}, 11, 4, 25; 2018 NT_{1}, 5, 2, 1; 2018 NU_{1}, 12, 4, 9; 2018 NV_{1}, 6, 2, 6; 2018 NW_{1}, 6, 1, 0; 2018 NB_{2}, 2, 1, 0; 2018 ND_{2}, 2, 1, 0; 2018 NE_{2}, 11, 4, 5; 2018 NF_{2}, 14, 3, 3; 2018 NG_{2}, 18, 6, 33; 2018 NH_{2}, 4, 1, 0; 2018 NK_{2}, 3, 1, 0; 2018 NL_{2}, 3, 1, 0; 2018 NN_{2}, 3, 1, 0; 2018 NP_{2}, 3, 1, 0; 2018 NV_{2}, 3, 1, 0; 2018 NY_{2}, 2, 1, 0; 2018 NB_{3}, 3, 1, 0; 2018 ND_{3}, 3, 1, 0; 2018 NL_{3}, 3, 1, 0; 2018 NN_{3}, 10, 4, 19; 2018 NO_{3}, 3, 1, 0; 2018 NU_{3}, 49, 8, 26; 2018 NV_{3}, 6, 2, 23; 2018 NY_{3}, 3, 1, 0; 2018 NA_{4}, 3, 1, 0; 2018 ND_{4}, 5, 1, 0; 2018 NF_{4}, 3, 1, 0; 2018 NG_{4}, 22, 8, 27; 2018 NH_{4}, 3, 1, 0; 2018 NJ_{4}, 13, 4, 5; 2018 NK_{4}, 14, 4, 23; 2018 NL_{4}, 4, 1, 0; 2018 NM_{4}, 3, 1, 0; 2018 NN_{4}, 20, 5, 24; 2018 NO_{4}, 18, 6, 43; 2018 NQ_{4}, 3, 1, 0; 2018 NU_{4}, 5, 2, 4; 2018 NY_{14}, 28, 9, 26; 2018 NA_{15}, 3, 1, 0; 2018 NE_{15}, 3, 1, 0; 2018 OA, 2, 1, 0; 2018 OB, 29, 9, 48; 2018 OE, 6, 2, 2478; 2018 OF, 4, 1, 0; 2018 OG, 23, 7, 19; 2018 OH, 5, 2, 1; 2018 OJ, 3, 1, 0; 2018 OK, 7, 2, 1; 2018 OL, 9, 1, 0; 2018 OM, 14, 3, 5; 2018 OT, 2, 1, 0; 2018 OX, 2, 1, 0; 2018 OY, 4, 1, 0; 2018 OZ, 2, 1, 0; 2018 OA_{1}, 3, 1, 0; 2018 OB_{1}, 2, 1, 0; 2018 OC_{1}, 3, 1, 0; 2018 OD_{1}, 8, 2, 2; 2018 PA, 6, 2, 10; 2018 PC, 3, 1, 0; 2018 PP_{7}, 3, 1, 0; 2018 PR_{7}, 8, 1, 0; 2018 PT_{7}, 5, 1, 0; 2018 PU_{7}, 17, 4, 29; 2018 PW_{7}, 3, 1, 0; 2018 PX_{7}, 24, 8,

24; 2018 PY_7, 4, 1, 0; 2018 PZ_7, 3, 1, 0; 2018 PF_8, 3, 1, 0; 2018 PG_8, 3, 1, 0; 2018 PJ_8, 2, 1, 0; 2018 PK_8, 3, 1, 0; 2018 PL_8, 14, 3, 11; 2018 PN_8, 3, 1, 0; 2018 PR_8, 3, 1, 0; 2018 PS_8, 3, 1, 0; 2018 PT_8, 3, 1, 0; 2018 PU_8, 3, 1, 0; 2018 PE_9, 6, 2, 1; 2018 PF_9, 3, 1, 0; 2018 PG_9, 3, 1, 0; 2018 PH_9, 6, 2, 3; 2018 PJ_9, 23, 7, 36; 2018 PK_9, 2, 1, 0; 2018 PL_9, 13, 3, 10; 2018 PN_9, 3, 1, 0; 2018 PP_9, 3, 1, 0; 2018 PR_9, 3, 1, 0; 2018 PX_9, 3, 1, 0; 2018 PG_{10}, 3, 1, 0; 2018 PJ_{10}, 6, 2, 3; 2018 PK_{10}, 16, 6, 11; 2018 PS_{10}, 9, 3, 26; 2018 PT_{10}, 11, 4, 34; 2018 PV_{10}, 9, 2, 4; 2018 PU_{19}, 3, 1, 0; 2018 PW_{19}, 3, 1, 0; 2018 PA_{20}, 9, 3, 27; 2018 PC_{20}, 2, 1, 0; 2018 PD_{20}, 3, 1, 0; 2018 PG_{20}, 6, 2, 1; 2018 PH_{20}, 6, 2, 1; 2018 PL_{20}, 5, 2, 1; 2018 PM_{20}, 7, 1, 0; 2018 PN_{20}, 3, 1, 0; 2018 PO_{20}, 7, 2, 10; 2018 PR_{20}, 3, 1, 0; 2018 PS_{20}, 3, 1, 0; 2018 PT_{20}, 3, 1, 0; 2018 PV_{20}, 6, 2, 2; 2018 PW_{20}, 3, 1, 0; 2018 PY_{20}, 3, 1, 0; 2018 PZ_{20}, 3, 1, 0; 2018 PA_{21}, 3, 1, 0; 2018 PB_{21}, 3, 1, 0; 2018 PD_{21}, 6, 2, 1; 2018 PE_{21}, 3, 1, 0; 2018 PH_{21}, 3, 1, 0; 2018 PJ_{21}, 3, 1, 0; 2018 PK_{21}, 15, 6, 35; 2018 PL_{21}, 3, 1, 0; 2018 PM_{21}, 3, 1, 0; 2018 PN_{21}, 5, 2, 1; 2018 PP_{21}, 3, 1, 0; 2018 PQ_{21}, 3, 1, 0; 2018 PR_{21}, 5, 2, 1; 2018 PS_{21}, 3, 1, 0; 2018 PU_{21}, 3, 1, 0; 2018 PW_{21}, 3, 1, 0; 2018 PX_{21}, 3, 1, 0; 2018 PY_{21}, 3, 1, 0; 2018 PA_{22}, 3, 1, 0; 2018 PB_{22}, 6, 2, 6; 2018 PE_{22}, 3, 1, 0; 2018 PF_{22}, 3, 1, 0; 2018 PG_{22}, 2, 1, 0; 2018 PH_{22}, 6, 2, 1; 2018 PJ_{22}, 32, 7, 20; 2018 PL_{22}, 3, 1, 0; 2018 PM_{22}, 3, 1, 0; 2018 PQ_{22}, 3, 1, 0; 2018 PR_{22}, 3, 1, 0; 2018 PS_{22}, 3, 1, 0; 2018 PT_{22}, 3, 1, 0; 2018 PU_{22}, 3, 1, 0; 2018 PV_{22}, 3, 1, 0; 2018 PX_{22}, 3, 1, 0; 2018 PZ_{22}, 3, 1, 0; 2018 PD_{23}, 3, 1, 0; 2018 PE_{23}, 3, 1, 0; 2018 PG_{23}, 3, 1, 0; 2018 PH_{23}, 3, 1, 0; 2018 PL_{23}, 6, 2, 23; 2018 PM_{23}, 6, 2, 9; 2018 PN_{23}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 PP_{23}, 3, 1, 0; 2018 PR_{23}, 3, 1, 0; 2018 PS_{23}, 8, 3, 13; 2018 PW_{23}, 3, 1, 0; 2018 PX_{23}, 3, 1, 0; 2018 PZ_{23}, 9, 3, 19; 2018 PB_{24}, 3, 1, 0; 2018 PE_{24}, 3, 1, 0; 2018 PF_{24}, 3, 1, 0; 2018 PG_{24}, 3, 1, 0; 2018 PK_{24}, 6, 2, 19; 2018 PM_{24}, 3, 1, 0; 2018 PN_{24}, 3, 1, 0; 2018 PO_{24}, 3, 1, 0; 2018 PP_{24}, 6, 2, 7; 2018 PQ_{24}, 6, 2, 5; 2018 PS_{24}, 6, 2, 3; 2018 PT_{24}, 3, 1, 0; 2018 PU_{24}, 3, 1, 0; 2018 PX_{24}, 3, 1, 0; 2018 PZ_{24}, 3, 1, 0; 2018 QJ, 3, 1, 0; 2018 QK, 3, 1, 0; 2018 QL, 3, 1, 0; 2018 QM, 3, 1, 0; 2018 QN, 3, 1, 0; 2018 QP, 15, 5, 17; 2018 QQ, 6, 1, 0; 2018 QR, 6, 2, 26; 2018 QS, 16, 5, 16; 2018 QT, 10, 3, 13; 2018 QU, 15, 5, 27; 2018 QV, 5, 2, 3; 2018 QW, 8, 3, 25; 2018 QX, 3, 1, 0; 2018 QZ, 4, 2, 2; 2018 QA_1, 14, 1, 0; 2018 QB_1, 5, 2, 1; 2018 QC_1, 5, 2, 1; 2018 QD_1, 3, 1, 0; 2018 QE_1, 3, 1, 0; 2018 QF_1, 6, 1, 0; 2018 QG_1, 7, 2, 1; 2018 QJ_1, 3, 1, 0; 2018 QK_1, 3, 1, 0; 2018 QO_1, 3, 1, 0; 2018 QP_1, 6, 2, 1; 2018 QQ_1, 13, 4, 20; 2018 QT_1, 5, 2, 4; 2018 QU_1, 26, 3, 4; 2018 QV_1, 25, 3, 2; 2018 QW_1, 3, 1, 0; 2018 RA, 16, 2, 1; 2018 RB, 18, 3, 2; 2018 RC, 6, 1, 0; 2018 RE, 2, 1, 0; 2018 RF, 4, 1, 0; 2018 RM, 9, 2, 1; 2018 RY, 9, 3, 3; 2018 RZ, 3, 1, 0; 2018 RC_1, 9, 3, 2; 2018 RD_1, 5, 1, 0; 2018 RO_1, 3, 1, 0; 2018 RR_1, 3, 1, 0; 2018 RS_1, 6, 2, 4; 2018 RV_1, 8, 3, 5; 2018 RX_1, 2, 1, 0; 2018 RB_2, 5, 2, 2; 2018 RL_2, 3, 1, 0; 2018 RM_2, 3, 1, 0; 2018 RO_2, 2, 1, 0; 2018 RZ_2, 6, 2, 1; 2018 RT_3, 3, 1, 0; 2018 RB_4, 3, 1, 0; 2018 RE_4, 5, 2, 7; 2018 RL_4, 6, 2, 1; 2018 RN_4, 4, 1, 0; 2018 RQ_4, 3, 1, 0; 2018 RA_5, 3, 1, 0; 2018 RB_5, 3, 1, 0; 2018 RC_5, 3, 1, 0; 2018 RM_5, 3, 1, 0; 2018 RN_5, 3, 1, 0; 2018 RO_5, 3, 1, 0; 2018 RQ_5, 3, 1, 0; 2018 RT_5, 3, 1, 0; 2018 RU_5, 3, 1, 0; 2018 RV_5, 2, 1, 0; 2018 RW_5, 3, 1, 0; 2018 RX_5, 4, 1, 0; 2018 RY_5, 3, 1, 0; 2018 RB_6, 2, 1, 0; 2018 RD_6, 3, 1, 0; 2018 RE_6, 3, 1, 0; 2018 RG_6, 3, 1, 0; 2018 RH_6, 3, 1, 0; 2018 RJ_6, 3, 1, 0; 2018 RR_6, 3, 1, 0; 2018 RS_6, 3, 1, 0; 2018 RW_6, 5, 2, 2; 2018 RX_6, 3, 1, 0; 2018 RY_6, 6, 2, 1; 2018 RZ_6, 5, 2, 1; 2018 RA_7, 9, 3, 4; 2018 RC_7, 2, 1, 0; 2018 RD_7, 6, 2, 1; 2018 RF_7, 9, 3, 4; 2018 RG_7, 5, 2, 1; 2018 RH_7, 5, 2, 1; 2018 RJ_7, 6, 2, 1; 2018 RK_7, 3, 1, 0; 2018 RL_7, 3, 1, 0; 2018 RM_7, 3, 1, 0; 2018 RN_7, 4, 1, 0; 2018 RO_7, 3, 1, 0; 2018 RS_7, 6, 2, 2; 2018 RT_7, 6, 2, 1; 2018 RU_7, 6, 2, 1; 2018 RV_7, 6, 2, 1; 2018 RW_7, 6, 2, 1; 2018 RX_7, 5, 2, 1; 2018 RY_7, 6, 2, 1; 2018 RZ_7, 2, 1, 0; 2018 RA_8, 3, 1, 0; 2018 RB_8, 3, 1, 0; 2018 RC_8, 2, 1, 0; 2018 RD_8, 2, 1, 0; 2018 RE_8, 4, 1, 0; 2018 RF_8, 2, 1, 0; 2018 RO_8, 6, 1, 0; 2018 RP_8, 6, 1, 0; 2018 RR_8, 3, 1, 0; 2018 RK_{16}, 3, 1, 0; 2018 SC, 6, 1, 0; 2018 SX, 3, 1, 0; 2018 SY, 3, 1, 0; 2018 SZ, 2, 1, 0; 2018 SB_1, 6, 2, 1; 2018 SC_1, 3, 1, 0; (1221), 6, 2, 2; (2061), 7, 1, 0; (2135), 5, 2, 3; (2608), 3, 1, 0; (5797), 2, 1, 0; (14402), 6, 1, 0; (27346), 3, 1, 0; (66253), 3, 1, 0; (97725), 8, 3, 9; (142555), 9, 3, 43; (143637), 15, 5, 10; (152895), 3, 1, 0; (153951), 6, 2, 6; (162723), 3, 1, 0; (163758), 3, 1, 0; (171486), 3, 1, 0; (194386), 12, 4, 10; (208115), 6, 2, 2; (230089), 2, 1, 0; (232382), 6, 2, 13; (248083), 3, 1, 0; (256670), 5, 2, 11; (276468), 14, 4, 10; (277958), 11, 4, 9; (285990), 3, 1, 0; (308043), 3, 1, 0; (330659), 3, 1, 0; (331471), 6, 2, 21; (331509), 2, 1, 0; (341050), 10, 4, 10; (354127), 3, 1, 0; (363163), 8, 3, 17; (363626), 5, 2, 38; (368949), 3, 1, 0; (369296), 3, 1, 0; (416501), 3, 1, 0; (490636), 3, 1, 0; (495102), 3, 1, 0; (497174), 6, 2, 18; (504711), 3, 1, 0; (509456), 6, 2, 1; (514571), 3, 1, 0; (516641), 3, 1, 0; (516976), 7, 1, 0; (518507), 15, 5, 23; (518640), 3, 1, 0; *[3762, 614, 4*, 2010/08/16–2018/09/19]*

H36 Sandlot Observatory, Scranton

G. Hug, 964 W. 149th St., Scranton, KS 66537, U.S.A. [fast@nekaal.org]
0.56-m reflector + CCD, 0.7-m reflector + CCD
Gaia-DR1, UCAC-4

1998 SD_9, 4, 1, 0; 2006 YA_{57}, 3, 1, 0; 2007 FP_{52}, 3, 1, 0; 2007 HO_{100}, 3, 1, 0; 2007 TO_{458}, 3, 1, 0; 2008 BD_{55}, 3, 1, 0; 2011 UL_{418}, 3, 1, 0; 2013 SD_{102}, 3, 1, 0; 2014 UY_{204}, 3, 1, 0; 2015 MQ_{101}, 3, 1, 0; 2018 JD_2, 3, 1, 0; 2018 KT, 3, 1, 0; 2018 LJ, 3, 1, 0; 2018 LM, 3, 1, 0; 2018 LN, 6, 2, 1; 2018 LC_1, 4, 1, 0; 2018 LF_1, 2, 1, 0; 2018 LQ_2, 6, 2, 1; 2018 LR_2, 4, 1, 0; 2018 LS_2, 3, 1, 0; 2018 LW_2, 2, 1, 0; 2018 LE_3, 3, 1, 0; 2018 LT_3, 1, 1, 0; 2018 LX_3, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LG_5, 3, 1, 0; 2018 LO_5, 8, 2, 1; 2018 LW_5, 6, 2, 1; 2018 LU_6 *, 6, 2, 2; 2018 MF, 3, 1, 0; 2018 MH_5, 2, 1, 0; 2018 MO_6, 3, 1, 0; 2018 MO_8, 3, 1, 0; 2018 MR_8, 5, 1, 0; 2018 NA, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 ND, 2, 1, 0; 2018 NH, 3, 1, 0; 2018 NN, 3, 1, 0; 2018 NX, 4, 1, 0; 2018 NZ_2, 3, 1, 0; 2018 NO_4, 3, 1, 0; 2018 NP_4, 2, 1, 0; 2018 OB, 3, 1, 0; 2018 PS_7, 3, 1, 0; 2018 PA_{24}, 2, 1, 0; 2018 PK_{24}, 6, 2, 2; 2018 QT, 4, 1, 0; 2018 QZ, 3, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QG_1, 6, 2, 1; 2018 QT_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 QV_1, 3, 1, 0; 2018 RA, 4, 1, 0; 2018 RB, 5, 2, 2; 2018 RB_3, 3, 1, 0; 2018 RE_3, 4, 1, 0; 2018 RF_3, 3, 1, 0; 2018 RG_3, 3, 1, 0; 2018 RH_3, 3, 1, 0; 2018 RJ_3, 3, 1, 0; 2018 RU_3, 3, 1, 0; 2018 RW_3, 4, 1, 0; 2018 RZ_3, 4, 1, 0; 2018 RY_4, 3, 1, 0; 2018 RE_5, 3, 1, 0; 2018 RG_5, 3, 1, 0; 2018 RY_5, 3, 1, 0; 2018 RG_6, 4, 1, 0; 2018 RD_7, 4, 1, 0; 2018 RO_8, 3, 1, 0; (202831), 3, 1, 0; *[249, 73, 1*, 2010/12/27–2018/09/17]*

H45 Arkansas Sky Observatory, Petit Jean Mountain South

P. C. Sherrod, 73 Tanyard Springs Road, Petit Jean Mountain, Morrilton, AR 72110, U.S.A. [drclay@tcworks.net]
0.51-m $f/4.3$ astrograph + CCD
UCAC-2

(444193), 7, 1, 0; *[7, 1, 0*, 2018/04/25]*

H47 Vicksburg

C. Bell, 107 Judson Circle, Vicksburg, MS 39180, U.S.A. [charbell@bellsouth.net]
0.3-m $f/6.6$ Schmidt-Cassegrain + CCD
UCAC-4

(21395), 4, 1, 0; (25229), 2, 1, 0; (27277), 2, 1, 0; (44556), 7, 2, 2; (59873), 6, 2, 1; (157577), 2, 1, 0; (278011), 4, 1, 0; (334124), 2, 1, 0; *[29, 8, 0*, 2018/05/07–2018/08/17]*

H55 Astronomical Research Observatory, Charleston

R. Holmes, 7616 NCR 1800E, Charleston, IL 61920, U.S.A. [ari@mchsi.com]
0.81-m $f/4$ astrograph + CCD, 0.61-m $f/4$ astrograph + CCD
USNO-A2.0

2004 YP_{37}, 3, 1, 0; 2007 VP_{340}, 4, 1, 0; 2008 AV_{139}, 3, 1, 0; 2014 QS_{491}, 4, 1, 0; 2017 RJ_{104}, 3, 1, 0; *[17, 5, 0*, 2007/12/06–2008/08/08]*

I03 European Southern Obs., La Silla-ASTROVIRTEL

C. Barbieri, Astronomical Observatory and Dept. of Astronomy of the University of Padova, Vicolo Osservatorio 5, I-35122 Padova, Italy [barbieri@pd.astro.it] (1)

1996 VJ_{12}, 3, 1, 0; 2014 QW_{476}, 3, 1, 0; *[6, 2, 0*, 2000/05/06–2000/10/23]*

I08 Alianza S4, Cerro Burek

R. Gil-Hutton, Casilla de Correo 467, Av. España 1512 sur, J5402DSP, San Juan, Argentina [rgilhutton@casleo.gov.ar]
Observers J. L. Ortiz, R. Gil-Hutton, R. Duffard, P. Santos-Sanz,
Measurers R. Stoss, J. Nomen, S. Sánchez
0.45-m $f/2.8$ reflector + CCD
UCAC-2

1998 UH_{51}, 5, 1, 0; 2006 KE_{146}, 3, 1, 0; *[8, 2, 0*, 2011/09/26–2015/11/17]*

I11 Gemini South Observatory, Cerro Pachon

J. Masiero, no details supplied (4)
Observers J. Masiero, V. Firpo, P. Prado
8.0-m reflector
Gaia-DR1

2018 LK_2, 3, 1, 0; 2018 RN_6, 4, 1, 0; *[7, 2, 0*, 2018/06/08–2018/09/13]*

I15 Wishing Star Observatory, Barrington

H. G. Peterson, 405 New Meadow Road, Barrington, RI 02806, U.S.A. [pete@petersonengineering.com]
0.35-m $f/10$ Schmidt-Cassegrain + CCD + $f/5.87$ focal reducer
UCAC-4

2001 SC_{170}, 3, 1, 0; 2015 BR_{514}, 3, 1, 0; 2017 OC_{40}, 4, 1, 0; 2018 JC_3, 3, 1, 0; 2018 KC_3, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LX_5, 2, 1, 0; (719), 9, 3, 14; (1627), 3, 1, 0; (6534), 13, 4, 43; (17274), 3, 1, 0; (66008), 4, 2, 9; (66391), 6, 2, 8; (68347), 3, 1, 0; (68950), 3, 1, 0; (85989), 3, 1, 0; (86324), 9, 3, 23; (138847), 9, 3, 73; (413563), 6, 2, 5; (436771), 3, 1, 0; (455550), 14, 4, 42; (467309), 6, 2, 3; (469737), 3, 1, 0; *[118, 23, 0∗, 2012/10/23–2018/09/02]*

I16 IAA-AI Atacama, San Pedro de Atacama

J. L. Ortiz, Instituto de Astrofisica de Andalucia, P. O. Box 3004, E-18080 Granada, Spain [ortiz@iaa.es]

Observers J. L. Ortiz, N. Morales, I. de la Cueva, A. Maury

Measurer N. Morales, J. L. Ortiz

0.4-m $f/3.6$ reflector + CCD

UCAC-2

2011 OW_{60} ∗, 6, 2, 2; 2011 QM_{100} ∗, 6, 2, 2; *[12, 2, 2∗, 2011/07/25–2011/08/24]*

I19 Observatorio El Gato Gris, Tanti

C. Colazo, 145 San Luis Street, Tanti, Argentina [gatogristanti@gmail.com]

Observers C. Colazo, V. Ledesma, G. Amilibia, M. Anzola, L. Balanzino

0.36-m $f/10.70$ Schmidt-Cassegrain + CCD

UCAC-4, Gaia-DR1

2018 LC_5, 3, 1, 0; 2018 LH_5, 3, 1, 0; 2018 LR_6, 3, 1, 0; 2018 LT_6, 3, 1, 0; 2018 MC, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 NV, 3, 1, 0; 2018 NE_1, 3, 1, 0; 2018 PB, 3, 1, 0; 2018 PC, 3, 1, 0; 2018 PM_{10}, 3, 1, 0; 2018 PW_{19}, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PD_{20}, 3, 1, 0; 2018 QL, 3, 1, 0; 2018 QS, 3, 1, 0; 2018 RY, 3, 1, 0; 2018 RA_1, 3, 1, 0; 2018 RD_1, 3, 1, 0; (16277), 3, 1, 0; *[60, 20, 0∗, 2018/06/15–2018/09/08]*

I41 Palomar Mountain–ZTF

F. Masci, IPAC-California Institute of Technology M/S 100-22, 1200 E. California Blvd, Pasadena, CA 91125, U.S.A. [fmasci@ipac.caltech.edu]

Measurers Q.-Z. Ye, F. Masci, T. A. Prince, H.-W. Lin, A. J. Nielsen, D. Kaplan, D. L. Kaplan

1.2-m $f/2.44$ Oschin Schmidt + ZTF camera

Gaia-DR1

1995 MS_2, 2, 1, 0; 1996 TO_{11}, 10, 4, 8; 1998 KF_6, 3, 1, 0; 1998 SD_9, 10, 2, 1; 1999 TT_{81}, 10, 5, 11; 1999 WH_{23}, 2, 1, 0; 2000 PF_4, 7, 3, 9; 2000 QP_{30}, 2, 1, 0; 2000 RS_{77}, 12, 6, 8; 2000 SR_{94}, 6, 3, 3; 2000 SO_{185}, 2, 1, 0; 2000 SB_{236}, 2, 1, 0; 2000 TB_{12}, 4, 2, 2; 2000 UC_{96}, 4, 2, 3; 2000 WE_3, 6, 3, 5; 2001 HL_{30}, 8, 4, 11; 2001 OX_{12}, 4, 2, 1; 2001 OQ_{44}, 9, 1, 0; 2001 OK_{69}, 4, 2, 3; 2001 OZ_{82}, 6, 3, 10; 2001 PX_3, 19, 9, 14; 2001 PO_{10}, 6, 3, 12; 2001 PC_{15}, 6, 3, 18; 2001 PN_{16}, 2, 1, 0; 2001 PJ_{61}, 8, 4, 8; 2001 PU_{67}, 4, 2, 2; 2001 QJ_9, 4, 2, 1; 2001 QC_{45}, 8, 4, 26; 2001 QN_{50}, 23, 8, 19; 2001 QQ_{106}, 3, 1, 0; 2001 QU_{158}, 2, 1, 0; 2001 QF_{178}, 6, 3, 16; 2001 QT_{273}, 2, 1, 0; 2001 QU_{327}, 2, 1, 0; 2001 RQ_{17}, 4, 1, 0; 2001 RF_{20}, 4, 2, 2; 2001 RD_{47}, 4, 2, 2; 2001 RL_{97}, 8, 4, 6; 2001 SL_{42}, 11, 5, 11; 2001 SW_{93}, 14, 6, 9; 2001 SE_{99}, 4, 2, 2; 2001 SJ_{154}, 6, 1, 0; 2001 SC_{170}, 28, 6, 97; 2001 SQ_{217}, 8, 4, 8; 2001 SK_{276}, 21, 7, 12; 2001 SN_{321}, 2, 1, 0; 2001 SZ_{322}, 6, 3, 13; 2001 TR_5, 2, 1, 0; 2001 TX_{95}, 4, 2, 3; 2001 TM_{132}, 10, 5, 23; 2001 TO_{140}, 5, 2, 5; 2001 TQ_{173}, 8, 4, 6; 2001 TO_{184}, 5, 1, 0; 2001 TT_{218}, 4, 2, 6; 2001 TY_{220}, 12, 4, 5; 2001 TM_{262}, 4, 2, 3; 2001 UG_7, 5, 2, 2; 2001 UW_{128}, 6, 3, 10; 2001 UW_{136}, 6, 3, 4; 2001 UG_{156}, 2, 1, 0; 2001 UG_{163}, 2, 1, 0; 2001 UO_{226}, 7, 1, 0; 2001 UG_{232}, 4, 2, 1; 2001 VN_8, 4, 2, 3; 2001 VL_{133}, 4, 1, 0; 2001 WP_{36}, 4, 2, 1; 2001 XZ_1, 8, 4, 7; 2001 XN_4, 10, 5, 10; 2001 XC_{76}, 12, 6, 14; 2002 LM_{24}, 2, 1, 0; 2002 NC_6, 8, 4, 9; 2002 NT_{48}, 3, 1, 0; 2002 NG_{65}, 2, 1, 0; 2002 NN_{74}, 5, 1, 0; 2002 NG_{83}, 4, 2, 2; 2002 OS_4, 76, 2, 13; 2002 OZ_{30}, 6, 1, 0; 2002 OE_{36}, 4, 2, 1; 2002 PW, 4, 2, 3; 2002 PD_1, 14, 1, 0; 2002 PJ_5, 8, 3, 9; 2002 PE_{31}, 12, 6, 13; 2002 PM_{51}, 4, 2, 2; 2002 PT_{98}, 6, 3, 12; 2002 PD_{141}, 10, 5, 9; 2002 PK_{141}, 8, 1, 0; 2002 PN_{158}, 2, 1, 0; 2002 PJ_{175}, 4, 2, 3; 2002 PT_{196}, 8, 4, 5; 2002 PB_{198}, 8, 4, 12; 2002 PN_{200}, 6, 3, 2; 2002 PV_{202}, 2, 1, 0; 2002 QM_{15}, 12, 4, 10; 2002 QY_{15}, 10, 5, 22; 2002 QF_{34}, 6, 3, 7; 2002 QO_{44}, 6, 3, 4; 2002 QC_{84}, 11, 4, 11; 2002 QU_{97}, 2, 1, 0; 2002 QQ_{101}, 2, 1, 0; 2002 QR_{142}, 14, 6, 8; 2002 QV_{142}, 8, 4, 5; 2002 QW_{150}, 17, 8, 12; 2002 QF_{156}, 8, 1, 0; 2002 QC_{158}, 3, 1, 0; 2002 RM, 4, 1, 0; 2002 RZ_{65}, 8, 4, 8; 2002 RH_{160}, 2, 1, 0; 2002 RF_{279}, 2, 1, 0; 2002 RE_{293}, 3, 1, 0; 2002 RR_{295}, 12, 5, 10; 2002 RZ_{295}, 14, 3, 8; 2002 SG_4, 4, 2, 3; 2002 SE_{16}, 5, 2, 2; 2002 SY_{58}, 5, 2, 4; 2002 SN_{59}, 6, 3, 9; 2002 SU_{73}, 2, 1, 0; 2002 SP_{75}, 18, 9, 29; 2002 TP_{125}, 5, 1, 0; 2002 TX_{129}, 2, 1, 0; 2002 TC_{140}, 4, 2, 3; 2002 TF_{142}, 6, 1, 0; 2002 TT_{145}, 2, 1, 0; 2002 TU_{167}, 18, 9, 27; 2002 TX_{196}, 5, 1, 0; 2002 TE_{218}, 8, 1, 0; 2002 TF_{221}, 4, 2, 3; 2002 TK_{313}, 6, 3, 9; 2002 TK_{383}, 4, 2, 1; 2002 UG_{26}, 12, 4, 7; 2002 UW_{76}, 2, 1, 0; 2002 VD_{58}, 2, 1, 0; 2002 VV_{132}, 48, 12, 29; 2002 VO_{139}, 25, 11, 13; 2002 VC_{149}, 6, 3, 11; 2002 WZ_{29}, 2, 1, 0; 2003 AN_{15}, 2, 1, 0; 2003 OY_2, 8, 4, 9; 2003 OB_4, 8, 4, 13; 2003 QT_{79}, 9, 4, 10; 2003 QJ_{90}, 17, 8, 12; 2003 RM, 9, 3, 12; 2003 SC_{220}, 10, 2, 4; 2003 SA_{254}, 2, 1, 0; 2003 SP_{262}, 6, 2, 2; 2003 SF_{335}, 2, 1, 0; 2003 SU_{335}, 4, 2, 1; 2003 TP_7, 4, 2, 2; 2003 UO_{236}, 3, 1, 0; 2003 UB_{278}, 4, 2, 2; 2003 UK_{316}, 4, 2, 2; 2004 BA_{68}, 4, 1, 0; 2004 CQ_{19}, 2, 1, 0; 2004 FY_{86}, 4, 2, 1; 2004 PX_{26}, 2, 1, 0; 2004 PP_{111}, 7, 3, 12; 2004 PK_{114}, 8, 4, 11; 2004 QJ_7, 4, 2, 1; 2004 QB_{17}, 9, 4, 9; 2004 RE_{17}, 2, 1, 0; 2004 RO_{24}, 10, 4, 30; 2004 RW_{70}, 2, 1, 0; 2004 RR_{85}, 10, 5, 12; 2004 RT_{109}, 4, 1, 0; 2004 RX_{110}, 15, 5, 5; 2004 RB_{248}, 8, 3, 8; 2004 RY_{256}, 2, 1, 0; 2004 RP_{275}, 14, 5, 10; 2004 RW_{327}, 22, 10, 23; 2004 SM, 15, 7, 25; 2004 TX_{16}, 2, 1, 0; 2004 TQ_{139}, 4, 2, 1; 2004 TC_{140}, 2, 1, 0; 2004 TR_{187}, 2, 1, 0; 2004 UN_1, 2, 1, 0; 2004 XL_{104}, 2, 1, 0; 2005 EJ_{33}, 21, 6, 40; 2005 ER_{38}, 37, 11, 16; 2005 EF_{59}, 8, 3, 8; 2005 GU_{39}, 6, 3, 7; 2005 JA_{81}, 4, 1, 0; 2005 KQ_7, 18, 7, 12; 2005 LA_{37}, 109, 2, 3; 2005 LV_{53}, 13, 5, 27; 2005 ME_{13}, 3, 1, 0; 2005 NL_{20}, 4, 2, 3; 2005 NL_{43}, 2, 1, 0; 2005 NM_{102}, 8, 4, 27; 2005 ON_4, 5, 2, 1; 2005 QG_1, 20, 8, 18; 2005 QH_1, 13, 5, 10; 2005 QF_3, 2, 1, 0; 2005 QR_6, 12, 5, 15; 2005 QJ_{15}, 14, 7, 14; 2005 QB_{16}, 4, 2, 2; 2005 QS_{25}, 12, 6, 7; 2005 QP_{37}, 9, 4, 10; 2005 QQ_{84}, 14, 6, 27; 2005 QC_{85}, 2, 1, 0; 2005 QW_{97}, 6, 3, 5; 2005 QB_{103}, 2, 1, 0; 2005 QA_{166}, 15, 6, 10; 2005 QG_{169}, 3, 1, 0; 2005 RB, 4, 1, 0; 2005 RS_{20}, 5, 2, 4; 2005 RM_{25}, 10, 4, 6; 2005 RA_{45}, 4, 1, 0; 2005 SA, 8, 4, 4; 2005 SN_{20}, 4, 2, 4; 2005 SV_{22}, 3, 1, 0; 2005 SH_{50}, 3, 1, 0; 2005 SW_{52}, 6, 3, 5; 2005 SM_{92}, 17, 1, 0; 2005 SX_{111}, 12, 6, 24; 2005 SH_{118}, 4, 2, 4; 2005 SQ_{155}, 3, 1, 0; 2005 SZ_{210}, 5, 2, 1; 2005 SK_{234}, 2, 1, 0; 2005 SP_{242}, 4, 2, 2; 2005 SY_{294}, 22, 8, 9; 2005 TH_7, 14, 5, 12; 2005 TV_{12}, 4, 2, 8; 2005 TO_{28}, 4, 2, 6; 2005 TB_{42}, 9, 4, 9; 2005 TF_{46}, 11, 5, 7; 2005 TO_{46}, 6, 2, 3; 2005 TH_{77}, 4, 2, 2; 2005 TP_{151}, 10, 5, 8; 2005 TR_{180}, 12, 5, 11; 2005 TF_{192}, 6, 3, 2; 2005 TS_{199}, 6, 1, 0; 2005 UR_{42}, 10, 5, 15; 2005 UX_{70}, 13, 6, 9; 2005 UN_{78}, 4, 2, 4; 2005 UY_{96}, 4, 1, 0; 2005 UL_{132}, 10, 5, 9; 2005 UE_{161}, 3, 1, 0; 2005 UO_{204}, 6, 3, 7; 2005 UR_{313}, 5, 2, 6; 2005 US_{393}, 2, 1, 0; 2005 UO_{441}, 15, 6, 12; 2005 UJ_{456}, 8, 4, 5; 2005 UT_{486}, 8, 3, 4; 2005 UR_{498}, 4, 2, 3; 2005 UW_{501}, 18, 8, 13; 2005 VX_{16}, 13, 6, 11; 2005 VL_{28}, 3, 1, 0; 2005 VY_{98}, 6, 3, 3; 2005 VO_{111}, 6, 1, 0; 2005 VD_{127}, 9, 4, 7; 2005 WY_{90}, 5, 2, 1; 2005 WO_{186}, 17, 6, 16; 2005 XM_{29}, 4, 2, 3; 2005 YG_{47}, 5, 2, 2; 2005 YX_{93}, 6, 2, 2; 2006 AD_{13}, 2, 1, 0; 2006 BR_7, 33, 8, 14; 2006 JP_{82}, 9, 3, 9; 2006 KN_{100}, 3, 1, 0; 2006 OT_9, 4, 1, 0; 2006 QY_{37}, 6, 2, 7; 2006 QN_{40}, 4, 2, 2; 2006 QQ_{154}, 4, 2, 3; 2006 SP_{12}, 3, 1, 0; 2006 SB_{206}, 2, 1, 0; 2006 ST_{386}, 13, 1, 0; 2006 SW_{403}, 29, 7, 14; 2006 SZ_{404}, 10, 5, 12; 2006 SR_{422}, 5, 2, 1; 2006 TD_{96}, 12, 6, 39; 2006 TP_{132}, 3, 1, 0; 2006 UQ_{81}, 4, 1, 0; 2006 UJ_{187}, 2, 1, 0; 2006 VJ_{39}, 6, 1, 0; 2006 VR_{103}, 14, 7, 15; 2006 WO_{76}, 6, 2, 4; 2006 WE_{186}, 2, 1, 0; 2006 WE_{209}, 5, 1, 0; 2006 YG_{28}, 2, 1, 0; 2006 YZ_{56}, 5, 1, 0; 2007 BL_3, 13, 5, 7; 2007 BW_{34}, 4, 1, 0; 2007 CJ_{24}, 4, 2, 2; 2007 CU_{24}, 2, 1, 0; 2007 CO_{80}, 6, 1, 0; 2007 EZ_{26}, 8, 4, 7; 2007 GL_{19}, 6, 1, 0; 2007 GK_{54}, 4, 1, 0; 2007 JO_{38}, 5, 1, 0; 2007 MW_{15}, 2, 1, 0; 2007 OQ_5, 15, 7, 12; 2007 PY_{15}, 34, 13, 24; 2007 PA_{16}, 16, 6, 26; 2007 PG_{17}, 8, 4, 26; 2007 PH_{48}, 6, 3, 6; 2007 PW_{50}, 6, 3, 4; 2007 PC_{51}, 4, 2, 1; 2007 QT_{15}, 7, 3, 3; 2007 RK_3, 6, 3, 5; 2007 RK_{15}, 4, 2, 1; 2007 RX_{19}, 4, 1, 0; 2007 RG_{44}, 8, 4, 11; 2007 RF_{49}, 12, 6, 9; 2007 RM_{60}, 7, 3, 10; 2007 RX_{139}, 7, 3, 3; 2007 RH_{151}, 4, 2, 1; 2007 RB_{243}, 4, 2, 2; 2007 RS_{247}, 8, 3, 7; 2007 RF_{283}, 28, 10, 17; 2007 RA_{312}, 6, 2, 23; 2007 RF_{313}, 7, 3, 5; 2007 RJ_{313}, 2, 1, 0; 2007 RW_{324}, 4, 2, 1; 2007 RF_{330}, 18, 7, 12; 2007 ST_3, 2, 1, 0; 2007 SW_{13}, 3, 1, 0; 2007 SA_{22}, 9, 4, 5; 2007 TL_6, 2, 1, 0; 2007 TZ_{10}, 5, 1, 0; 2007 TR_{19}, 16, 7, 11; 2007 TS_{21}, 5, 2, 3; 2007 TK_{50}, 3, 1, 0; 2007 TV_{55}, 6, 3, 8; 2007 TW_{82}, 6, 3, 7; 2007 TR_{111}, 10, 4, 11; 2007 TN_{142}, 2, 1, 0; 2007 TV_{149}, 10, 4, 6; 2007 TN_{158}, 15, 6, 5; 2007 TS_{161}, 4, 2, 3; 2007 TP_{175}, 5, 2, 2; 2007 TV_{191}, 5, 2, 4; 2007 TS_{212}, 2, 1, 0; 2007 TG_{294}, 7, 2, 6; 2007 TV_{331}, 14, 5, 5; 2007 TL_{371}, 4, 2, 2; 2007 TO_{380}, 4, 2, 2; 2007 TE_{400}, 4, 2, 3; 2007 TN_{423}, 8, 4, 6; 2007 TV_{429}, 2, 1, 0; 2007 TU_{441}, 2, 1, 0; 2007 UJ_7, 102, 24, 68; 2007 UV_7, 14, 5, 6; 2007 US_8, 4, 2, 1; 2007 UH_{11}, 6, 3, 4; 2007 UX_{33}, 10, 4, 12; 2007 UU_{43}, 4, 2, 3; 2007 UE_{51}, 9, 4, 7; 2007 UC_{54}, 4, 2, 4; 2007 VA_9, 6, 3, 3; 2007 VC_{60}, 4, 2, 2; 2007 VZ_{71}, 5, 2, 1; 2007 VR_{75}, 3, 1, 0; 2007 VZ_{88}, 2, 1, 0; 2007 VQ_{102}, 3, 1, 0; 2007 VO_{189}, 10, 1, 0; 2007 VP_{320}, 4, 2, 2; 2007 VA_{328}, 14, 5, 9; 2007 VR_{340}, 3, 1, 0; 2007 VO_{341}, 5, 2, 1; 2007 WT_{28}, 2, 1, 0; 2007 YW_{76}, 3, 1, 0; 2008 BA_{55}, 3, 1, 0; 2008 DL_{90}, 12, 6, 9; 2008 KS_{32}, 4, 1, 0; 2008 OL_{22}, 4, 2, 3; 2008 QJ_{12}, 10, 5, 13; 2008 RD_{103}, 18, 7, 9; 2008 RY_{130}, 8, 3, 4; 2008 RG_{149}, 2, 1, 0; 2008 SK_{100}, 2, 1, 0; 2008 SO_{145}, 8, 4, 7; 2008 SO_{196}, 5, 2, 7; 2008 SR_{242}, 10, 5, 6; 2008 SN_{307}, 2, 1, 0; 2008 SO_{313}, 3, 1, 0; 2008 TL_3, 39, 11, 29; 2008 TA_{96}, 3, 1, 0; 2008 TC_{112}, 2, 1, 0; 2008 UF_{25}, 7, 3, 2; 2008 UU_{71}, 8, 4, 6; 2008 UY_{115}, 2, 1, 0; 2008 UA_{125}, 3, 1, 0; 2008 UE_{154}, 7, 3, 7; 2008 UR_{156}, 3, 1, 0; 2008 UZ_{186}, 7, 3, 4; 2008 UE_{230}, 5, 1, 0; 2008 UD_{336}, 2, 1, 0; 2008 UE_{356}, 12, 6, 12; 2008 UV_{356}, 2, 1, 0; 2008 VE_9, 4, 2, 2; 2008 VF_{11}, 2, 1, 0; 2008 WX_1, 2, 1, 0; 2008 WS_{34}, 5, 2, 3; 2008 WB_{71}, 10, 5, 8; 2008 WF_{110}, 2, 1, 0; 2008 XZ_{10}, 2, 1, 0; 2008 XG_{30}, 8, 4, 7; 2008 YB_{25}, 12, 5, 11; 2009 BG_4, 5, 2, 1; 2009 BQ_{124}, 10, 5, 5; 2009 DR_{84}, 6, 3, 4; 2009 EQ_{20}, 6, 2, 3; 2009 FW_{70}, 7, 3, 10; 2009 FN_{81}, 6, 2, 4; 2009 HE_{82}, 46, 16, 63; 2009 JF_2, 4, 2, 6; 2009 OA, 4, 2, 29; 2009 OO_5, 12, 6, 15; 2009 OQ_{14}, 4, 2, 1; 2009 OU_{21}, 5, 2, 2; 2009 PA_5, 4, 2, 2; 2009 QC_{19}, 11, 5, 7; 2009 QG_{23}, 9, 4, 11; 2009 QP_{24}, 4, 1, 0; 2009 QD_{43}, 4, 2, 2; 2009 QZ_{50}, 5, 2, 1; 2009 RO_{47}, 6, 3, 12; 2009 RZ_{56}, 2, 1, 0; 2009 RJ_{57}, 4, 2, 2; 2009 RN_{75}, 10, 5, 15; 2009 SV_1, 19, 9, 9; 2009 SX_1, 6, 2, 26; 2009 SC_{12}, 6, 3, 5; 2009 SS_{36}, 12, 5, 10; 2009 SA_{205}, 6, 2, 2; 2009 SO_{288}, 6, 3, 8; 2009 SS_{330}, 4, 2, 1; 2009 SD_{369}, 2, 1, 0; 2009 SN_{370}, 5, 2, 2; 2009 TM_{20}, 6, 3, 10; 2009 TC_{21}, 10, 5, 9; 2009 UW_{86}, 8, 4, 9; 2009 UX_{93}, 16, 6, 14; 2009 UE_{103}, 8, 4, 9; 2009 UQ_{126}, 6, 3, 8; 2009 UB_{133}, 6, 3, 5; 2009 UJ_{160}, 5, 2, 3; 2009 VN_{28}, 4, 2, 2; 2009 WN_{78}, 4, 2, 1; 2009 WZ_{137}, 5, 1, 0; 2009 WM_{193}, 10, 5, 11; 2009 WF_{217}, 4, 2, 3; 2009 XR_2, 101, 2, 1; 2010 AU_{27}, 5, 2, 2; 2010 AG_{107}, 4, 2, 3; 2010 AQ_{123}, 6, 2, 2; 2010 BX_{31}, 2, 1, 0; 2010 BV_{114}, 6, 3, 4; 2010 CG_{34}, 2, 1, 0; 2010 CR_{167}, 2, 1, 0; 2010 CJ_{252}, 4, 1, 0; 2010 EX_{35}, 4, 2, 1; 2010 EJ_{126}, 18, 8, 13;

2010 EJ_{168}, 2, 1, 0; 2010 FC_{87}, 2, 1, 0; 2010 GC_{172}, 10, 1, 0; 2010 LK, 4, 2, 3; 2010 LP_{33}, 4, 2, 2; 2010 LW_{93}, 8, 4, 6; 2010 LA_{109}, 2, 1, 0; 2010 MY_{44}, 6, 3, 4; 2010 MF_{46}, 6, 3, 10; 2010 NU_9, 2, 1, 0; 2010 NL_{20}, 2, 1, 0; 2010 PD, 2, 1, 0; 2010 PN_{50}, 6, 3, 4; 2010 RS_5, 8, 1, 0; 2010 RN_{154}, 12, 1, 0; 2010 RC_{155}, 4, 2, 2; 2010 SQ_6, 13, 4, 29; 2010 SE_8, 6, 3, 31; 2010 TY_{18}, 13, 5, 12; 2010 TC_{26}, 2, 1, 0; 2010 TD_{48}, 2, 1, 0; 2010 TC_{81}, 4, 2, 2; 2010 TV_{110}, 16, 7, 12; 2010 TD_{152}, 2, 1, 0; 2010 US_{12}, 6, 2, 2; 2010 UR_{14}, 2, 1, 0; 2010 UO_{48}, 10, 5, 9; 2010 UP_{77}, 2, 1, 0; 2010 UR_{93}, 10, 5, 9; 2010 UD_{96}, 44, 17, 36; 2010 UN_{107}, 2, 1, 0; 2010 VF_{12}, 2, 1, 0; 2010 VB_{34}, 10, 5, 17; 2010 VX_{57}, 4, 2, 1; 2010 VY_{61}, 12, 6, 11; 2010 VK_{81}, 2, 1, 0; 2010 VB_{83}, 2, 1, 0; 2010 VE_{116}, 3, 1, 0; 2010 VS_{140}, 4, 2, 2; 2010 VN_{161}, 2, 1, 0; 2010 VH_{165}, 8, 4, 6; 2010 VT_{182}, 2, 1, 0; 2010 VH_{201}, 6, 3, 4; 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I47 Pierre Auger Observatory, Malargüe

M. Mašek, Zitna 683, Liberec 6, 46006, Liberec 6 [cassi@astronomie.cz]
Observers M. Masek, J. Ebr, P. Janecek, R. Cunniffe
0.3-m f/6.8 reflector + CCD
UCAC-4

2018 KB_4, 2, 1, 0; (2898), 2, 1, 0; (5001), 2, 1, 0; (10404), 3, 1, 0; (13675), 2, 1, 0; (17863), 2, 1, 0; (77045), 2, 1, 0; (81253), 2, 1, 0; *[17, 8, 0*, 2018/06/07–2018/09/14]*

I52 Steward Observatory, Mt. Lemmon Station

E. Christensen, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A.
eric@lpl.arizona.edu]
Observers A. R. Gibbs, J. A. Johnson, D. C. Fuls, H. Groeller, B. M. Africano, G. J. Leonard, R. A. Kowalski, E. J. Christensen
Measurers B. M. Africano, E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, H. Groeller, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. L. Seaman, F. C. Shelly, M. Micheli, G. A. Farneth
1.0-m reflector + CCD
Gaia-DR1, Gaia-DR2

1998 MW_5, 5, 2, 1; 1999 FW_{75}, 4, 1, 0; 2000 SR_{94}, 4, 1, 0; 2001 BW_{64}, 4, 1, 0; 2001 SR_{263}, 4, 1, 0; 2001 UU, 8, 1, 0; 2002 HO_{18}, 4, 1, 0; 2002 SY_{58}, 4, 1, 0; 2004 LB, 4, 1, 0; 2004 RT_{24}, 4, 1, 0; 2004 RO_{111}, 8, 2, 1; 2004 TK_{12}, 4, 1, 0; 2005 BD_2, 4, 1, 0; 2005 FG, 4, 1, 0; 2005 GU_{39}, 4, 1, 0; 2005 MF_5, 3, 1, 0; 2005 NL_{43}, 4, 1, 0; 2005 QX_{28}, 4, 1, 0; 2005 RV_{24}, 4, 1, 0; 2005 SE_{27}, 4, 1, 0; 2005 SO_{294}, 4, 1, 0; 2005 TM_{99}, 3, 1, 0; 2005 UT_6, 8, 2, 1; 2005 UU_{187}, 4, 1, 0; 2005 UY_{492}, 8, 1, 0; 2006 QM_{33}, 8, 2, 1; 2006 RH_{96}, 4, 1, 0; 2006 ST_{422}, 3, 1, 0; 2006 TJ_{81}, 4, 1, 0; 2006 TR_{132}, 4, 1, 0; 2006 TM_{133}, 4, 1, 0; 2006 UZ_{281}, 4, 1, 0; 2007 DD_{97}, 4, 1, 0; 2007 LT, 4, 1, 0; 2007 RZ_8, 4, 1, 0; 2007 TH_{166}, 3, 1, 0; 2007 TL_{371}, 4, 1, 0; 2007 VC_{174}, 4, 1, 0; 2007 VM_{243}, 3, 1, 0; 2007 YU_{77}, 4, 1, 0; 2008 AD_{136}, 4, 1, 0; 2008 CP_{23}, 4, 1, 0; 2008 TQ_{35}, 4, 1, 0; 2008 TG_{58}, 4, 1, 0; 2008 UV_{91}, 8, 2, 1; 2008 UL_{103}, 4, 1, 0; 2008 WK_{128}, 3, 1, 0; 2008 YS_{36}, 8, 2, 1; 2009 BZ_{192}, 8, 1, 0; 2009 MW_6, 11, 2, 1; 2009 OQ_{14}, 4, 1, 0; 2009 SV_{17}, 8, 2, 1; 2010 JT_{30}, 8, 2, 1; 2010 JL_{100}, 4, 1, 0; 2010 RS_{174}, 4, 1, 0; 2010 SO_{11}, 3, 1, 0; 2010 UZ_{63}, 8, 2, 1; 2010 VM_{55}, 4, 1, 0; 2010 WL_5, 3, 1, 0; 2011 CX_{46}, 8, 2, 1; 2011 ME_1, 4, 1, 0; 2011 QL_{14}, 4, 1, 0; 2011 UV_{194}, 3, 1, 0; 2011 UG_{201}, 8, 2, 1; 2011 VU_7, 4, 1, 0; 2011 XR_4, 3, 1, 0; 2012 BB_{97}, 3, 1, 0; 2012 BX_{111}, 4, 1, 0; 2012 BM_{126}, 7, 1, 0; 2012 FL_{87}, 4, 1, 0; 2012 GF, 3, 1, 0; 2012 HR_{30}, 4, 1, 0; 2012 JE_{28}, 8, 2, 2; 2012 MR_4, 4, 1, 0; 2012 RF_{15}, 4, 1, 0; 2012 TM_{139}, 4, 1, 0; 2012 XG_{30}, 4, 1, 0; 2013 CB_{229}, 4, 1, 0; 2013 EJ_{124}, 4, 1, 0; 2013 GO_{97}, 3, 1, 0; 2013 HS_{77}, 8, 2, 1; 2013 KK_8, 4, 1, 0; 2013 LB, 3, 1, 0; 2013 LU_6, 7, 2, 1; 2013 MA_{14}, 4, 1, 0; 2013 NB_{11}, 4, 1, 0; 2013 OD_{12}, 4, 1, 0; 2013 PW_6, 3, 1, 0; 2013 PA_7, 4, 1, 0; 2013 PW_{73}, 4, 1, 0; 2013 PA_{74}, 4, 1, 0; 2013 QS_6, 3, 1, 0; 2013 SS_{20}, 11, 2, 1; 2013 ST_{26}, 6, 2, 1; 2013 TJ_{171}, 4, 1, 0; 2013 VD_{13}, 6, 2, 1; 2013 VV_{25}, 4, 1, 0; 2013 WM_{85}, 4, 1, 0; 2014 DG_{113}, 4, 1, 0; 2014 GF_{50}, 4, 1, 0; 2014 JM_{25}, 4, 1, 0; 2014 JW_{31}, 3, 1, 0; 2014 KS_{38}, 4, 1, 0; 2014 MS_2, 4, 1, 0; 2014 MD_{23}, 4, 1, 0; 2014 MP_{60}, 4, 1, 0; 2014 OY_{41}, 4, 1, 0; 2014 OS_{113}, 4, 1, 0; 2014 OF_{298}, 3, 1, 0; 2014 QS_{273}, 4, 1, 0; 2014 QX_{321}, 4, 1, 0; 2014 QG_{451}, 4, 1, 0; 2014 QP_{486}, 4, 1, 0; 2014 RY_{12}, 4, 1, 0; 2014 RU_{17}, 4, 1, 0; 2014 SR_{58}, 4, 1, 0; 2014 SG_{143}, 3, 1, 0; 2014 SK_{260}, 4, 1, 0; 2014 SY_{303}, 3, 1, 0; 2014 TG_{17}, 4, 1, 0; 2014 UW_{13}, 4, 1, 0; 2014 US_{134}, 4, 1, 0; 2014 WO_{338}, 4, 1, 0; 2014 YF_{42}, 8, 2, 1; 2015 BD_{64}, 4, 1, 0; 2015 BG_{255}, 4, 1, 0; 2015 BM_{311}, 3, 1, 0; 2015 BR_{514}, 4, 1, 0; 2015 BP_{515}, 4, 1, 0; 2015 CO_{61}, 3, 1, 0; 2015 DP, 3, 1, 0; 2015 JL_{11}, 4, 1,

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I81 Tarbatness Observatory, Portmahomack

D. Buczynski, Templecroft, Tarbatness Road, Portmahomack Tain, Rossshire IV2 01RD, United Kingdom [buczynski8166@btinternet.com]

0.35-m Schmidt-Cassegrain + CCD + $f/6$ focal reducer

UCAC-4

(2060), 6, 2, 37; (60558), 3, 1, 0; *[9, 2, 0*, 2018/08/09–2018/09/14]*

I89 iTelescope Observatory, Nerpio

M. Suzuki, 3-15-25-1301 Motoimaizumi, Utsunomiya, Tochigi 321-0954, Japan [mtnsuzuki@nifty.com] (4)

S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (16)

Observers A. S. Betzler, M. Suzuki, E. Bryssinck, S. M. Tilley, A. Bhagavathula, L. Lu, M. Purushothapu, S. Sirri, S. Gorbaty, M. Jouve, F. Muhammad, S. Patil, A. Bhag aathula

0.43-m $f/6.8$ astrograph + CCD, 0.15-m $f/7.3$ refractor + CCD

USNO-B1.0, Gaia-DR2, UCAC-4, USNO-A2.0

{16} 2018 MR_8, 3, 1, 0; *[3, 1, 0*, 2018/07/23]*

{4} 2018 MG_7, 3, 1, 0; *[3, 1, 0*, 2018/06/25]*

J04 ESA Optical Ground Station, Tenerife

D. Koschny, European Space Agency ESA/ESTEC, Keplerlaan 1, NL-2201 AZ Noordwijk ZH, The Netherlands [Detlef.Koschny@esa.int]

Observers P. Ruiz, D. Abreu

Measurers M. Busch, U. Carsenty, R. Furgoni, A. Knöfel, D. Koschny, M. Micheli, E. Schwab, S. Shurpakov, R. Stawitzki, M. Tsyhankou, M. Biesiada, H. Bill, F. Hormuth, C. Kunze, Y. Walter, P. Schmeer, G. Lehmann, C. Liefke, P. Geffert, T. Thommes, J. Linder, J. Jahn, C. Busch, F. Ocana, R. Reszelewski, J. Rothermel

1.0-m $f/4.4$ reflector + CCD

USNO-A2.0, Gaia-DR2, Gaia-DR1, PPMXL

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J13 La Palma-Liverpool Telescope

M. Altman, Astronomisches Recheninstitut der Universität Heidelberg, Moenchhofstr. 12-14,D-69120 Heidelberg, Germany [maltmann@ari.uni-heidelberg.de] (6)
Observers J. Marchant, M. Altmann
Measurer T. Lister
2.0-m $f/10.0$ Ritchey-Chrétien + CCD
Gaia-DR2

2010 LT_{17}, 16, 1, 0; 2018 RM_1, 10, 1, 0; (92352), 10, 1, 0; (413541), 10, 1, 0; *[46, 4, 0∗, 2017/02/28–2018/09/07]*

J22 Tacande Observatory, La Palma

J. Genebriera, 34 Juana Morales, E-38750 El Paso, La Palma, Canary Islands, Spain [PLEIADES@telefonica.net]
Observer K. Hills
0.5-m $f/2.9$ astrograph + CCD
UCAC-4

2018 LK, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 PB, 3, 1, 0; 2018 PC, 3, 1, 0; (2060), 11, 4, 53; (60558), 4, 2, 15; *[27, 6, 0∗, 2018/06/05–2018/09/07]*

J26 The Spaceguard Centre, Knighton

J. R. Tate, Llanshay Lane, Knighton, Powys LD7 1LW, Wales [mail@spaceguarduk.com]
0.35-m Schmidt-Cassegrain + CCD
USNO-A2.0

(5426), 3, 1, 0; (15318), 3, 1, 0; *[6, 2, 0∗, 2018/05/17–2018/05/18]*

J27 El Guijo Observatory

A. San Segundo, 21 Onice Street, Galapagar, E-28360 Madrid, Spain [assdelgado@yahoo.es]
0.30-m $f/4$ reflector + CCD
Gaia-DR1, Gaia-DR2

1999 RB_{32}, 6, 2, 5; 2013 EP_{41}, 3, 1, 0; 2018 MR_8, 3, 1, 0; 2018 RB, 3, 1, 0; (13553), 3, 1, 0; (68950), 6, 2, 7; (115052), 6, 2, 3; (144332), 3, 1, 0; (162168), 3, 1, 0; (438429), 3, 1, 0; (481394), 3, 1, 0; *[42, 11, 0∗, 2018/07/16–2018/09/13]*

J38 Observatorio La Vara, Valdés

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0.25-m f/8.1 Ritchey-Chrétien + CCD
CMC-15, USNO-A2.0
(121), 3, 1, 0; *[3, 1, 0*, 2018/06/17]*

J43 Oukaïmeden Observatory, Marrakech
Z. Benkhaldoun, Cadi Ayyad University, Physics Department, FSSM, Av. Prince My Abdellah BP 2390, Marrakech, Morocco [zouhair@ucam.ac.ma]
Observers C. Rinner, M. Ory
0.5-m f/3 reflector + CCD
UCAC-4, UCAC-3

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J69 North Observatory, Clanfield
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0.41-m $f/4.5$ Newtonian reflector + CCD
Gaia-DR2, UCAC-4
1998 SD_9, 6, 1, 0; 2011 UA, 4, 1, 0; 2012 OD_1, 3, 1, 0; 2015 DP_{155}, 4, 1, 0; 2015 FP_{118}, 6, 1, 0; 2017 YE_5, 5, 1, 0; 2018 LJ, 3, 1, 0; 2018 LK, 5, 1, 0; 2018 LQ_3, 10, 2, 1; 2018 LO_5, 3, 1, 0; 2018 LT_6, 2, 1, 0; 2018 MG_7, 10, 1, 0; 2018 MR_8, 4, 1, 0; 2018 NB, 8, 1, 0; 2018 NQ, 4, 1, 0; 2018 NV, 13, 2, 2; 2018 NF_4, 3, 1, 0; 2018 NN_4, 2, 1, 0; 2018 PB, 3, 1, 0; 2018 PC, 6, 1, 0; 2018 PU_7, 2, 1, 0; 2018 PM_{10}, 5, 1, 0; 2018 QU_1, 4, 1, 0; 2018 RC, 3, 1, 0; 2018 RD_1, 4, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RD_5, 5, 1, 0; 2018 RO_5, 4, 1, 0; 2018 SC, 3, 1, 0; (3108), 2, 1, 0; (11385), 3, 1, 0; (66391), 4, 1, 0; (68347), 10, 2, 1; (139289), 4, 1, 0; (398188), 3, 1, 0; (467309), 5, 1, 0; *[168, 36, 0∗, 2018/05/27–2018/09/17]*

J75 OAM Observatory, La Sagra
S. Sanchez, Observatori Astronomic de Mallorca, Camí de l'observatori s/n, E-07144 Costitx, Baleares, Spain [astroam@bitel.es]
Observers S. Sanchez, J. Nomen, M. Hurtado, J. A. Jaume, W. K. Y. Yeung, P. Rios, F. Serra
0.45-m $f/2.8$ reflector + CCD, 0.40-m $f/10$ reflector + CCD
UCAC-2
2001 SA_{357}, 3, 1, 0; 2002 TL_{35}, 6, 2, 16; 2003 QS_{120}, 3, 1, 0; 2006 FG_{56}, 3, 1, 0; 2006 QP_{188}, 3, 1, 0; 2006 SW_{423}, 3, 1, 0; 2006 TY_{131}, 3, 1, 0; 2006 UQ_{365}, 3, 1, 0; 2007 CQ_{80}, 3, 1, 0; 2007 TH_{456}, 3, 1, 0; 2007 TQ_{458}, 6, 2, 24; 2007 YK_{77}, 3, 1, 0; 2008 PS_{22} ∗, 3, 1, 0; 2008 PT_{22} ∗, 3, 1, 0; 2008 PU_{22} ∗, 3, 1, 0; 2008 PV_{22} ∗, 3, 1, 0; 2008 QU_{48} ∗, 3, 1, 0; 2008 TE_{193} ∗, 3, 1, 0; 2008 WF_{144} ∗, 3, 1, 0; 2009 OA_{26}, 3, 1, 0; 2009 OE_{26}, 3, 1, 0; 2009 PW_{21} ∗, 3, 1, 0; 2010 HL_{30}, 3, 1, 0; 2010 JJ_{92}, 3, 1, 0; 2010 NO_{118}, 3, 1, 0; 2010 PV_{81} ∗, 3, 1, 0; 2010 QN_7, 3, 1, 0; 2010 TA_{195}, 3, 1, 0; 2010 XZ_{93}, 3, 1, 0; 2011 OX_{60} ∗, 3, 1, 0; 2011 PJ_{16} ∗, 3, 1, 0; 2011 QP_{100} ∗, 3, 1, 0; 2011 SX_{280} ∗, 3, 1, 0; 2011 SA_{281}, 3, 1, 0; 2011 TD_{18} ∗, 3, 1, 0; 2013 EL_{61}, 3, 1, 0; 2013 MY_{13}, 3, 1, 0; 2013 MC_{14}, 3, 1, 0; 2013 RZ_{107} ∗, 6, 2, 7; 2014 PK_{82}, 3, 1, 0; 2014 QB_{475}, 3, 1, 0; 2014 YE_{64}, 3, 1, 0; 2016 FM_{68}, 3, 1, 0; 2016 NH_{90}, 6, 1, 0; 2016 WT_8, 3, 1, 0; 2017 DO_{31}, 3, 1, 0; 2017 DL_{99}, 3, 1, 0; 2017 RJ_{104}, 3, 1, 0; 2018 KR_1, 3, 1, 0; 2018 QE_5, 6, 2, 15; 2018 QJ_6, 3, 1, 0; 2018 RF_{11}, 3, 1, 0; *[171, 52, 15∗, 2008/08/01–2014/09/23]*

J77 Golden Hill Observatory, Stourton Caundle
R. Miles, Grange Cottage, Stourton Caundle, Dorset DT10 2JP, England [rmiles@baa.u-net.com]
0.35-m $f/8$ Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1, Gaia-DR2
2018 KY_2, 6, 1, 0; 2018 KF_3, 5, 1, 0; 2018 KB_4, 5, 1, 0; 2018 LJ, 5, 1, 0; 2018 LQ_3, 7, 1, 0; 2018 LE_4, 3, 1, 0; 2018 LF_5, 4, 1, 0; 2018 LO_5, 4, 1, 0; 2018 MW_6, 3, 1, 0; 2018 MX_6, 7, 1, 0; 2018 MB_7, 4, 1, 0; 2018 PM_{10}, 8, 1, 0; *[61, 12, 0∗, 2018/05/25–2018/08/10]*

J81 Guirguillano
P. Martorell, c/Lago 13 2-C, E-31016 Pamplona, Spain [pmartorell@masbytes.es]
Observers J. Salamero, P. Martorell
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-3
2018 MG_7, 3, 1, 0; (68347), 3, 1, 0; *[6, 2, 0∗, 2018/06/16–2018/06/25]*

J86 Sierra Nevada Observatory
J. L. Ortiz, Instituto de Astrofisica de Andalucia, Camino Bajo de Huetor 24, E-18008 Granada, Spain [Ortiz@iaa.es]
Observers M. Serra-Ricart, A. Sota
Measurers S. Lemes-Perera, A. Sota
1.50-m $f/8.0$ Ritchey-Chrétien + CCD
UCAC-4, URAT-1
2018 QO_3 ∗, 16, 4, 3; 2018 QP_3 ∗, 14, 3, 2; 2018 QT_3 ∗, 12, 4, 3; 2018 QN_4 ∗, 15, 5, 32; (2060), 3, 1, 0; (263723), 3, 1, 0; *[63, 6, 4∗, 2018/08/17–2018/09/20]*

J95 Great Shefford
P. Birtwhistle, Phlox Cottage, Wantage Road, Great Shefford, Berkshire RG17 7DA, England [peter@birtwhistle.org.uk]
0.41-m $f/6.3$ Schmidt-Cassegrain + CCD
Gaia-DR2, UCAC-4
1998 SD_9, 17, 3, 2; 1998 UC_{51}, 3, 1, 0; 2013 RM_{42}, 4, 1, 0; 2015 SW_6, 2, 1, 0; 2016 BL_{36}, 6, 2, 1; 2018 EJ_4, 7, 2, 3; 2018 JK_3, 3, 1, 0; 2018 LK, 11, 3, 9; 2018 LC_1, 3, 1, 0; 2018 LG_1, 2, 1, 0; 2018 LL_2, 2, 1, 0; 2018 LR_2, 7, 2, 2; 2018 LU_2, 4, 1, 0; 2018 LV_2, 3, 1, 0; 2018 LE_3, 3, 1, 0; 2018 LP_3, 5, 2, 1; 2018 LQ_3, 13, 3, 2; 2018 LT_3, 3, 1, 0; 2018 LV_3, 3, 1, 0; 2018 LD_4, 3, 1, 0; 2018 LE_4, 6, 2, 1; 2018 LG_4, 3, 1, 0; 2018 LF_5, 6, 2, 2; 2018 LG_5, 5, 2, 2; 2018 LO_5, 3, 1, 0; 2018 LS_5, 2, 1, 0; 2018 LX_5, 3, 1, 0; 2018 MX_4, 3, 1, 0; 2018 MW_6, 3, 1, 0; 2018 MX_6, 6, 2, 1; 2018 MY_6, 13, 4, 8; 2018 MB_7, 32, 7, 12; 2018 MC_7, 4, 1, 0; 2018 ME_7, 2, 1, 0; 2018 MG_7, 18, 5, 6; 2018 MJ_7, 3, 1, 0; 2018 MM_8, 6, 2, 4; 2018 MN_8, 3, 1, 0; 2018 NA, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 NC, 2, 1, 0; 2018 ND, 6, 2, 1; 2018 NE, 3, 1, 0; 2018 NH, 3, 1, 0; 2018 NJ, 10, 3, 2; 2018 NQ, 10, 2, 1; 2018 NS, 3, 1, 0; 2018 NU, 3, 1, 0; 2018 NV, 3, 1, 0; 2018 NX, 7, 2, 1; 2018 NY, 3, 1, 0; 2018 ND_1, 2, 1, 0; 2018 NE_1, 3, 1, 0; 2018 NF_1, 3, 1, 0; 2018 NN_1, 2, 1, 0; 2018 NQ_1, 5, 2, 5; 2018 NW_1, 2, 1, 0; 2018 NF_2, 3, 1, 0; 2018 NH_2, 3, 1, 0; 2018 NV_2, 13, 4, 4; 2018 NN_3, 3, 1, 0; 2018 NT_3, 2, 1, 0; 2018 NV_3, 2, 1, 0; 2018 ND_4, 9, 3, 3; 2018 NF_4, 10, 3, 2; 2018 NG_4, 10, 3, 2; 2018 NH_4, 3, 1, 0; 2018 NJ_4, 2, 1, 0; 2018 NL_4, 13, 4, 5; 2018 NM_4, 2, 1, 0; 2018 NO_4, 2, 1, 0; 2018 OB, 3, 1, 0; 2018 OF, 4, 1, 0; 2018 OG, 10, 3, 4; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 OQ, 4, 1, 0; 2018 OW, 3, 1, 0; 2018 OY, 10, 3, 2; 2018 OZ, 13, 4, 12; 2018 OC_1, 3, 1, 0; 2018 OD_1, 2, 1, 0; 2018 PA, 2, 1, 0; 2018 PB, 3, 1, 0; 2018 PC, 3, 1, 0; 2018 PR_7, 4, 1, 0; 2018 PU_7, 4, 1, 0; 2018 PW_7, 7, 2, 1; 2018 PY_7, 3, 1, 0; 2018 PJ_9, 3, 1, 0; 2018 PN_9, 3, 1, 0; 2018 PJ_{10}, 3, 1, 0; 2018 PM_{10}, 9, 2, 3; 2018 PC_{20}, 3, 1, 0; 2018 PK_{20}, 3, 1, 0; 2018 PM_{20}, 3, 1, 0; 2018 PN_{20}, 3, 1, 0; 2018 PN_{21}, 3, 1, 0; 2018 PJ_{22}, 6, 2, 1; 2018 PN_{22}, 2, 1, 0; 2018 PO_{22}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 PT_{23}, 7, 1, 0; 2018 PY_{23}, 2, 1, 0; 2018 QS, 2, 1, 0; 2018 QT, 2, 1, 0; 2018 QW, 5, 2, 3; 2018 QZ, 11, 3, 3; 2018 QA_1, 3, 1, 0; 2018 QF_1, 7, 2, 3; 2018 QH_1, 6, 2, 1; 2018 QT_1, 6, 2, 1; 2018 QU_1, 6, 2, 1; 2018 QV_1, 6, 2, 1; 2018 RA, 10, 2, 2; 2018 RB, 6, 2, 2; 2018 RC, 9, 2, 1; 2018 RF, 3, 1, 0; 2018 RM, 3, 1, 0; 2018 RN, 2, 1, 0; 2018 RO, 8, 2, 1; 2018 RP, 11, 2, 1; 2018 RQ, 3, 1, 0; 2018 RR, 9, 1, 0; 2018 RW, 13, 1, 0; 2018 RX, 3, 1, 0; 2018 RD_1, 4, 1, 0; 2018 RE_1, 3, 1, 0; 2018 RX_1, 3, 1, 0; 2018 RB_2, 3, 1, 0; 2018 RD_2, 3, 1, 0; 2018 RE_3, 3, 1, 0; 2018 RR_4, 3, 1, 0; 2018 RD_5, 6, 2, 1; 2018 RE_5, 3, 1, 0; 2018 RF_5, 3, 1, 0; 2018 RG_5, 3, 1, 0; 2018 RH_5, 3, 1, 0; 2018 RO_5, 6, 2, 1; 2018 RP_5, 3, 1, 0; 2018 RQ_5, 3, 1, 0; 2018 RT_5, 4, 1, 0; 2018 RY_5, 3, 1, 0; 2018 RA_6, 3, 1, 0; 2018 RB_6, 3, 1, 0; 2018 RC_6, 3, 1, 0; 2018 RE_6, 2, 1, 0; 2018 RF_6, 5, 2, 1; 2018 RG_6, 3, 1, 0; 2018 RJ_6, 3, 1, 0; 2018 RK_6, 3, 1, 0; 2018 RL_6, 3, 1, 0; 2018 RX_6, 3, 1, 0; 2018 RD_7, 3, 1, 0; 2018 RM_7, 4, 1, 0; 2018 RN_7, 3, 1, 0; 2018 RD_8, 3, 1, 0; 2018 RS_{27} ∗, 6, 2, 1; 2018 SB, 3, 1, 0; 2018 SC, 8, 1, 0; (2668), 3, 1, 0; (4269), 3, 1, 0; (10146), 4, 1, 0; (75759), 3, 1, 0; (79947), 3, 1, 0; (123643), 3, 1, 0; (132386), 3, 1, 0; (168953), 3, 1, 0; (180484), 3, 1, 0; (219389), 2, 1, 0; (239293), 4, 1, 0; (247684), 4, 1, 0; (307715), 3, 1, 0; (331937), 3, 1, 0; (395309), 4, 1, 0; (399549), 3, 1, 0; (517717), 2, 1, 0; *[825, 177, 1∗, 2005/11/29–2018/09/18]*

K02 Eastwood Observatory, Leigh on Sea
P. Carson, 85 Whitehouse Road, Leigh on Sea, Essex SS9 5ST, United Kingdom [petercarson100@gmail.com]
0.32-m reflector + CCD + $f/5.4$ focal reducer
UCAC-4
(44556), 3, 1, 0; *[3, 1, 0∗, 2018/08/17]*

K14 Observatorio de Sencelles
M. Morales, Son Fred Rd. 1, 07140 Sencelles, Balearic Island, Spain [observatorio.de.sencelles@gmail.com]
0.25-m $f/3.3$ Schmidt-Cassegrain + CCD
UCAC-4, USNO-A2.0
(393), 8, 2, 8; *[8, 1, 0∗, 2018/06/18–2018/06/26]*

K17 Observatoire des Valentines, Bex
R. Nicollerat, Chemin des Valentines 16, Bex, Vaud 1880, Switzerland [rnicollerat@gmail.com]
0.35-m $f/7.7$ Schmidt-Cassegrain + CCD
PPMXL
(3894), 3, 1, 0; (13553), 9, 2, 12; (92483), 3, 1, 0; *[15, 3, 0∗, 2018/07/23–2018/08/11]*

K22 Les Barres Observatory, Lamanon
M. Deldem, 55 Allee de la Citronnelle, 13113 Lamanon, France [marc.deldem@free.fr]
0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.4$ focal reducer
UCAC-4
(21), 6, 2, 3; (69), 13, 3, 4; (313), 7, 2, 16; (374), 24, 6, 13; (471), 3, 1, 0; (20731), 2, 1, 0; (28613), 2, 1, 0; (36699), 12, 4, 10; (87890), 3, 1, 0; (88273), 9, 3, 7; *[81, 10, 0∗, 2018/05/17–2018/09/17]*

K30 Lüscherz
L. Grimm, Hauptstrasse 60, 2576 Lüscherz, Switzerland [lorenz.grimm@vtxmail.ch]
0.25-m $f/4.8$ Newtonian reflector + CCD
UCAC-4
2018 RQ_2, 3, 1, 0; 2018 RT_2, 3, 1, 0; 2018 RH_3, 3, 1, 0; *[9, 3, 0∗, 2018/09/08–2018/09/09]*

K38 M57 Observatory, Saltrio
G. Baj, via Viggiu 35, Saltrio, Varese, Italy [amir31@alice.it]
0.30-m $f/5.5$ Ritchey-Chrétien + CCD
PPMXL, Gaia-DR2, UCAC-4
2001 SC_{170}, 3, 1, 0; 2015 FP_{118}, 4, 1, 0; 2015 QM_3, 3, 1, 0; 2018 EJ_4, 3, 1, 0; 2018 GA_5, 3, 1, 0; 2018 JE_1, 4, 1, 0; 2018 LJ, 3, 1, 0; 2018 LK, 3, 1, 0; 2018 LN, 2, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LO_5, 2, 1, 0; 2018 MX_6, 3, 1, 0; 2018 MY_6, 3, 1, 0; 2018 MB_7, 5, 1, 0; 2018 MG_7, 3, 1, 0; 2018 MM_8, 9, 3, 21; 2018 NA, 3, 1, 0; 2018 NQ, 4, 1, 0; 2018 NV, 7, 1, 0; 2018 NB_3, 3, 1, 0; 2018 NK_3, 2, 1, 0; 2018 NF_4, 3, 1, 0; 2018 NG_4, 3, 1, 0; 2018 OB, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 RM, 3, 1, 0; 2018 RQ_2, 4, 1, 0; (31396), 3, 1, 0; (66391), 10, 2, 10; (68347), 6, 2, 22; (83899), 3, 1, 0; (138847), 7, 2, 11; (139345), 9, 2, 14; (237801), 3, 1, 0; (283729), 3, 1, 0; (441987), 5, 1, 0; (467309), 10, 1, 0; *[156, 38, 0∗, 2018/05/31–2018/09/12]*

K40 Altdorf
S. Beck, Eschelbachstr. 17, 71088 Holzgerlingen, Germany [stefan_beck@cometchaser.de]
0.20-m $f/2.8$ Newtonian reflector + CCD
UCAC-4, USNO-A2.0
2015 FP_{118}, 5, 1, 0; (144332), 4, 1, 0; *[9, 2, 0∗, 2018/09/15]*

K41 Vegaquattro Astronomical Obs., Novi Ligure
V. Luna, via D.L.Sturzo 15, Novi Ligure (AL), Italy [vegaquattro@gmail.com]
Observers C. Ferretti, V. Luna
0.3-m Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1, Gaia-DR2
2018 LO_5, 2, 1, 0; (21062), 5, 1, 0; (28978), 2, 1, 0; (90568), 2, 1, 0; (128072), 1, 1, 0; (134340), 4, 1, 0; (195982), 2, 1, 0; (307261), 2, 1, 0; (334076), 2, 1, 0; *[22, 9, 0∗, 2018/05/31–2018/07/24]*

K46 Bamberg
K. Völkel, Kunigundendamm 148, 96050 Bamberg Germany [klaus.voelkel@bnv-bamberg.de]
0.10-m $f/6.8$ refractor + CCD
Gaia-DR1, Gaia-DR2
(1627), 34, 9, 71; (13553), 5, 2, 4; (134340), 3, 1, 0; *[42, 3, 0∗, 2018/05/26–2018/08/05]*

K51 Osservatorio del Celado, Castello Tesino
R. Furgoni, c/o Biblioteca Comunale, Via Venezia 16/b, 38053 Castello Tesino, Italy [riccardo.furgoni@gmail.com]
Observers M. Campestrin, M. Bernard, R. Broccato, G. Favero, R. Furgoni
0.80-m $f/4$ reflector + CCD
Gaia-DR1, UCAC-4, Gaia-DR2
2014 RU_{17}, 3, 1, 0; 2018 NP, 3, 1, 0; 2018 NQ, 3, 1, 0; 2018 PG_{10}, 3, 1, 0; 2018 PM_{10}, 3, 1, 0; 2018 PV_{10}, 3, 1, 0; 2018 PX_{19}, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 RP_8, 3, 1, 0; *[30, 10, 0∗, 2018/07/08–2018/09/17]*

K61 Rokycany Observatory
M. Mašek, Voldusska 721/II, 33701, Rokycany, Czech Republic [cassi@astronomie.cz]
Observer M. Adamovský
0.51-m $f/6.8$ reflector + CCD
UCAC-4
2002 CY_9, 3, 1, 0; 2018 EB, 4, 1, 0; 2018 PM_{10}, 4, 1, 0; 2018 PW_{19}, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PD_{20}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 PK_{24}, 3, 1, 0; 2018 QT, 4, 1, 0; 2018 QU_1, 3, 1, 0; 2018 RB, 3, 1, 0; 2018 RH, 2, 1, 0; 2018 RM, 6, 2, 6; 2018 RD_1, 3, 1, 0; 2018 RQ_1, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RF_4, 3, 1, 0; 2018 RH_4, 3, 1, 0; 2018 RJ_4, 3, 1, 0; 2018 RO_4, 2, 1, 0; 2018 RW_4, 2, 1, 0; 2018 RV_5, 2, 1, 0; 2018 RP_8, 5, 1, 0; *[73, 23, 0∗, 2018/04/06–2018/09/15]*

K63 G. Pascoli Observatory, Castelvecchio Pascoli
R. Bacci, Via Pieri 1, 55051 Castelvecchio Pascoli, Italy [roberto.bacci@gmail.com]
0.41-m $f/3.2$ Newtonian reflector + CCD
Gaia-DR1, Gaia-DR2, UCAC-4
2001 SC_{170}, 3, 1, 0; 2007 RZ_8, 3, 1, 0; 2010 TJ_{41}, 3, 1, 0; 2011 GA_{62}, 3, 1, 0; 2015 OX_{77}, 2, 1, 0; 2018 EZ, 3, 1, 0; 2018 EJ_4, 3, 1, 0; 2018 LG_1, 3, 1, 0; 2018 LQ_2, 6, 2, 4; 2018 LT_6, 3, 1, 0; 2018 MM_8, 3, 1, 0; 2018 NA, 6, 2, 2; 2018 ND, 3, 1, 0; 2018 NH, 3, 1, 0; 2018 NJ, 2, 1, 0; 2018 NN, 3, 1, 0; 2018 NP, 3, 1, 0; 2018 NR_1, 3, 1, 0; 2018 ND_2, 3, 1, 0; 2018 NF_2, 3, 1, 0; 2018 NV_2, 3, 1, 0; 2018 NB_3, 3, 1, 0; 2018 NU_3, 3, 1, 0; 2018 NF_4, 3, 1, 0; 2018 NG_4, 3, 1, 0; 2018 OB, 3, 1, 0; 2018 OL, 3, 1, 0; 2018 OM, 3, 1, 0; 2018 PB, 3, 1, 0; 2018 PR_7, 3, 1, 0; 2018 PU_7, 3, 1, 0; 2018 PD_8, 3, 1, 0; 2018 PL_9, 3, 1, 0; 2018 PG_{10}, 3, 1, 0; 2018 PM_{10}, 5, 1, 0; 2018 PV_{10}, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PO_{23}, 6, 2, 1; 2018 PL_{28}, 3, 1, 0; 2018 QA_1, 3, 1, 0; 2018 QU_1, 6, 1, 0; 2018 RB, 4, 1, 0; 2018 RC, 7, 2, 2; 2018 RD, 3, 1, 0; 2018 RF, 5, 1, 0; 2018 RM, 4, 1, 0; 2018 RR, 3, 1, 0; 2018 RX, 5, 1, 0; 2018 RY, 3, 1, 0; 2018 RA_1, 4, 1, 0; 2018 RC_1, 3, 1, 0; 2018 RD_1, 4, 1, 0; 2018 RN_1, 3, 1, 0; 2018 RU_1, 3, 1, 0; 2018 RA_2, 3, 1, 0; 2018 RB_2, 3, 1, 0; 2018 RD_2, 3, 1, 0; 2018 RE_2, 3, 1, 0; 2018 RF_2, 4, 1, 0; 2018 RL_2, 3, 1, 0; 2018 RQ_2, 4, 1, 0; 2018 RY_3, 3, 1, 0; 2018 RZ_3, 3, 1, 0; 2018 RA_4, 3, 1, 0; 2018 RM_4, 3, 1, 0; 2018 RO_4, 3, 1, 0; 2018 RO_5, 4, 1, 0; 2018 RT_5, 4, 1, 0; 2018 RB_6, 3, 1, 0; 2018 RK_6, 3, 1, 0; 2018 RX_6, 3, 1, 0; 2018 RO_7, 3, 1, 0; 2018 RT_8, 3, 1, 0; 2018 SB, 3, 1, 0; 2018 SD_1, 4, 1, 0; (7632), 3, 1, 0; (9812), 3, 1, 0; (14964), 3, 1, 0; (25168), 3, 1, 0; (31094), 3, 1, 0; (31979), 3, 1, 0; (32820), 3, 1, 0; (34737), 3, 1, 0; (68950), 3, 1, 0; (109628), 3, 1, 0; (110972), 3, 1, 0; (111706), 3, 1, 0; (114648), 4, 1, 0; (133800), 3, 1, 0; (153184), 3, 1, 0; (157026), 3, 1, 0; (164834), 3, 1, 0; (168367), 3, 1, 0; (183412), 3, 1, 0; (219596), 3, 1, 0; (347881), 3, 1, 0; (351622), 3, 1, 0; (415029), 3, 1, 0; (418929), 3, 1, 0; (458872), 3, 1, 0; *[330, 100, 0∗, 2018/03/08–2018/09/19]*

K65 Cesena
V. Tinella, Via Galileo Ferraris 31, Cesena, 47522 Forli, Italy [vtinella@libero.it]
0.40-m $f/7$ Schmidt-Cassegrain + CCD
Gaia-DR1, Gaia-DR2
2012 OD_1, 3, 1, 0; 2018 KE_3, 3, 1, 0; 2018 NH, 3, 1, 0; 2018 NQ, 2, 1, 0; 2018 NK_2, 2, 1, 0; 2018 NG_4, 3, 1, 0; 2018 PJ_{22}, 3, 1, 0; 2018 PK_{23}, 5, 2, 4; 2018 PO_{23}, 3, 1, 0; 2018 RH, 2, 1, 0; (888), 3, 1, 0; (23765), 3, 1, 0; (88764), 3, 1, 0; (98772), 2, 1, 0; (153655), 2, 1, 0; (329682), 2, 1, 0; *[44, 16, 0∗, 2018/06/10–2018/09/11]*

K73 Gravina in Puglia
F. Taccogna, Via Maurizio Lettieri 19, 70024 Gravina in Puglia, Bari, Italy [ftaccogna@alice.it]
0.20-m $f/5$ Newtonian reflector + CCD, 0.15-m $f/3$ reflector + CCD
UCAC-4
(1627), 30, 7, 67; (13553), 12, 3, 16; (17274), 14, 3, 26; (25916), 29, 6, 45; (66391), 13, 2, 7; (134340), 15, 5, 6; (138847), 3, 1, 0; (162483), 3, 1, 0; (398188), 7, 1, 0; *[126, 9, 0∗, 2018/06/03–2018/08/10]*

K74 Muensterschwarzach Observatory, Schwarzach
C. Gerhard, Schweinfurter Straße 40, Schwarzach, 97359 Bavaria, Germany
[p.christoph@abtei-muensterschwarzach.de]
0.30-m f/3.75 Newtonian reflector + CCD, 0.18-m f/5 refractor + CCD
Gaia-DR1, Gaia-DR2, UCAC-4
2011 UA, 4, 1, 0; 2015 FP_{118}, 5, 1, 0; 2018 NF_4, 2, 1, 0; 2018 NL_4, 3, 1, 0; 2018 QF_1, 4, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RD_5, 3, 1, 0; (61), 3, 1, 0; (433), 4, 1, 0; (719), 4, 1, 0; (2061), 3, 1, 0; (3552), 3, 1, 0; (4452), 4, 1, 0; (9967), 3, 1, 0; (17511), 3, 1, 0; (19793), 3, 1, 0; (27938), 13, 1, 0; (36185), 2, 1, 0; (37828), 2, 1, 0; (43806), 3, 1, 0; (86324), 5, 1, 0; (271011), 3, 1, 0; (328717), 4, 1, 0; (334650), 4, 1, 0; (519168), 2, 1, 0; *[92, 25, 0∗, 2018/03/20–2018/09/18]*

K78 iota Scorpii Observatory, La Spezia
G. Scarfi, Privata Da Passano, 67, La Spezia, 19126 Italy
[giulio.scarfi@yahoo.it]
0.40-m f/8 Ritchey-Chrétien + CCD
UCAC-4
2018 NA, 5, 1, 0; *[5, 1, 0∗, 2018/07/01]*

K80 Platanus Observatory, Lusowko
T. Kluwak, Admiralska 31, Lusowko, Wielkopolskie 62-080, Poland
[tomasz.kluwak@gmail.com]
0.28-m f/2.2 Schmidt + CCD
Gaia-DR2, URAT-1
2018 NB, 2, 1, 0; 2018 NL_4, 2, 1, 0; 2018 QA_1, 6, 1, 0; 2018 QF_1, 3, 1, 0; 2018 QG_1, 2, 1, 0; *[15, 5, 0∗, 2018/07/02–2018/08/22]*

K81 P.M.P.H.R. Deep Sky Observatory, Atina
P. Matassa, via Porta dell'Osteria, 464 Atina (FR), Italy
UCAC-4
UCAC-4
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K82 Alphard Observatory, Ostuni
R. De Lorenzo, Via Nino Sansone 16, 72017 Ostuni (BR), Italy
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0.25-m f/4.8 Newtonian reflector + CCD
UCAC-4
2018 RC, 3, 1, 0; *[3, 1, 0∗, 2018/09/08]*

K83 Beppe Forti Astronomical Observatory, Montelupo
M. Tombelli, Via San Vito, I-50056 Montelupo (FI), Italy [m.tombelli@alice.it]
Observers L. Grazzini, M. Tombelli, G. Interrante, M. Lombardo, G. Giovannoni, F. Bianchi, S. Bartolini, Y. Mazzanti
Measurers L. Grazzini, M. Tombelli, G. Interrante, M. Lombardo, S. Foglia, S. Bartolini, A. Mazzanti
0.25-m Newtonian reflector + CCD, 0.30-m f//6.2 Ritchey-Chrétien + CCD
Gaia-DR1, UCAC-4, Gaia-DR2
2011 GA_{62}, 6, 2, 12; 2011 UA, 3, 1, 0; 2015 FP_{118}, 3, 1, 0; 2018 NB, 3, 1, 0; 2018 OW, 2, 1, 0; 2018 RQ_2, 4, 1, 0; (433), 3, 1, 0; (3552), 3, 1, 0; (6456), 3, 1, 0; (6876), 3, 1, 0; (7197), 4, 1, 0; (7481), 3, 1, 0; (7794), 4, 1, 0; (9000), 2, 1, 0; (10553), 2, 1, 0; (12470), 3, 1, 0; (13553), 7, 3, 35; (13740), 3, 1, 0; (15418), 2, 1, 0; (17077), 2, 1, 0; (17274), 3, 1, 0; (17511), 3, 1, 0; (18109), 2, 1, 0; (31345), 3, 1, 0; (35703), 4, 2, 3; (68950), 2, 1, 0; (99799), 3, 1, 0; (162168), 3, 1, 0; (162483), 3, 1, 0; (216689), 3, 1, 0; (306805), 2, 1, 0; (398188), 5, 2, 9; *[101, 32, 0∗, 2018/05/25–2018/09/14]*

K85 Kelmis
T. Hebbeker, Schievenhoevel 9, Neu-Moresnet, 4721 Belgium
[thomas@hebbeker.info]
USNO-B1.0
PPMXL
(1627), 6, 2, 2; (66391), 32, 12, 27; (144332), 35, 13, 24; *[73, 3, 0∗, 2018/05/25–2018/09/15]*

K87 Dettelbach Vineyard Observatory
B. Häusler, Buergermeister-Knoetgen-Str. 19, Dettelbach 97337, Germany
[bernhard.haeusler@t-online.de]
0.30-m Schmidt-Cassegrain + CCD
Gaia-DR1, CMC-15
2002 OS_4, 7, 2, 1; 2011 GA_{62}, 6, 2, 7; 2014 NE_3, 6, 2, 1; 2018 GA_5, 3, 1, 0; 2018 JK_2, 3, 1, 0; 2018 JL_2, 3, 1, 0; 2018 JC_3, 3, 1, 0; 2018 KT, 3, 1, 0; 2018 KV, 3, 1, 0; 2018 LQ_2, 6, 2, 7; 2018 LF_5, 6, 2, 1; 2018 MM_8, 3, 1, 0; 2018 MR_8, 3, 1, 0; 2018 NA, 23, 3, 7; 2018 NB, 21, 4, 17; 2018 NC, 6, 2, 1; 2018 ND, 3, 1, 0; 2018 NP, 3, 1, 0; 2018 NQ, 6, 1, 0; 2018 NT, 3, 1, 0; 2018 NV, 11, 2, 6; 2018 NE_1, 11, 2, 1; 2018 ND_2, 3, 1, 0; 2018 NV_2, 7, 1, 0; 2018 NG_4, 18, 2, 2; 2018 NL_4, 9, 1, 0; 2018 NN_4, 3, 1, 0; 2018 OB, 3, 1, 0; 2018 OL, 14, 3, 2; 2018 OM, 10, 2, 1; 2018 OW, 3, 1, 0; 2018 OY, 6, 2, 1; 2018 PA, 4, 1, 0; 2018 PG_{10}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QS, 3, 1, 0; (719), 16, 5, 7; (2061), 10, 3, 11; (13553), 15, 5, 11; (14402), 7, 2, 1; (15745), 6, 2, 1; (162483), 3, 1, 0; (283729), 6, 2, 1; (398188), 11, 3, 3; (455550), 4, 1, 0; *[309, 45, 0∗, 2018/05/12–2018/08/18]*

K88 GINOP-KHK, Piszkéstető
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Observers A. Ordasi, A. Pál, K. Sárneczky, A. Bódi, O. Hanyecz, B. Ignácz, R. Szakáts
0.60-m Schmidt + CCD, 1.02-m Ritchey-Chrétien + CCD
USNO-B1.0

2001 QF_{178}, 3, 1, 0; 2005 CC_{82}, 6, 1, 0; 2005 GU_{39}, 3, 1, 0; 2005 SG_{2}, 12, 1, 0; 2007 JV_{46}, 5, 1, 0; 2007 RF_{330}, 3, 1, 0; 2007 XB_{61}, 8, 1, 0; 2008 TF_{193}, 3, 1, 0; 2008 VY_{82}, 3, 1, 0; 2008 YV_{118}, 2, 1, 0; 2009 OQ_{14}, 8, 1, 0; 2009 US_{40}, 3, 1, 0; 2010 ER_{18}, 3, 1, 0; 2010 SD_{45}, 3, 1, 0; 2011 WS_{73}, 2, 1, 0; 2012 TJ_{47}, 2, 1, 0; 2012 UR_{184}, 6, 1, 0; 2012 XM_{159}, 3, 1, 0; 2013 TC_{145}, 4, 1, 0; 2013 VC_{21}, 3, 1, 0; 2013 WR_{50}, 2, 1, 0; 2014 KS_{38}, 3, 1, 0; 2014 OL_{296}, 3, 1, 0; 2014 SJ_{237}, 3, 1, 0; 2015 GW_{15}, 2, 1, 0; 2015 SW_{6}, 6, 2, 2; 2016 EA_{250}, 11, 2, 1; 2016 SG_{59}, 3, 1, 0; 2017 FD, 3, 1, 0; 2017 FC_{128}, 5, 2, 1; 2018 KH_{2}, 2, 1, 0; 2018 KH_{3}, 6, 3, 34; 2018 NP, 7, 2, 2; 2018 NB_{3}, 3, 1, 0; 2018 NF_{4}, 3, 1, 0; 2018 NG_{4}, 3, 1, 0; 2018 NL_{4}, 3, 1, 0; 2018 NZ_{14}, 4, 2, 1; 2018 PB, 3, 1, 0; 2018 PU_{7}, 4, 1, 0; 2018 PL_{8}, 3, 1, 0; 2018 PJ_{9}, 3, 1, 0; 2018 PK_{23}, 8, 1, 0; 2018 PW_{23}, 2, 1, 0; 2018 PX_{23}, 2, 1, 0; 2018 PJ_{24}, 3, 1, 0; 2018 PL_{28}, 11, 4, 3; 2018 QL, 3, 1, 0; 2018 QN, 3, 1, 0; 2018 QP, 7, 3, 3; 2018 QQ, 6, 2, 2; 2018 QS, 5, 2, 1; 2018 QT, 7, 3, 3; 2018 QV, 8, 3, 3; 2018 QW, 2, 1, 0; 2018 QY, 3, 1, 0; 2018 QA_{1}, 6, 2, 1; 2018 QE_{1}, 2, 1, 0; 2018 QF_{1}, 3, 1, 0; 2018 QG_{1}, 8, 2, 1; 2018 RT_{5}, 7, 1, 0; 2018 RB_{6}, 3, 1, 0; 2018 RD_{7}, 2, 1, 0; 2018 RO_{7}, 3, 1, 0; 2018 RE_{8}, 3, 1, 0; 2018 RF_{8}, 5, 2, 1; 2018 RG_{8}, 3, 1, 0; 2018 RJ_{8}, 7, 2, 1; 2018 RO_{8}, 5, 2, 1; 2018 RP_{8}, 9, 3, 2; 2018 RR_{8}, 2, 1, 0; 2018 SB, 3, 1, 0; 2018 SC, 3, 1, 0; 2018 SF, 3, 1, 0; 2018 SV, 6, 2, 1; 2018 SW, 3, 1, 0; 2018 SD_{1}, 11, 2, 1; (1411), 3, 1, 0; (2026), 16, 2, 1; (2444), 6, 1, 0; (2505), 2, 1, 0; (2972), 8, 1, 0; (3091), 8, 1, 0; (3367), 3, 1, 0; (3830), 3, 1, 0; (4207), 3, 1, 0; (4958), 3, 1, 0; (5775), 16, 2, 1; (5790), 8, 1, 0; (6420), 3, 1, 0; (6685), 8, 1, 0; (7157), 2, 1, 0; (7416), 8, 1, 0; (7499), 3, 1, 0; (7632), 8, 1, 0; (7713), 8, 1, 0; 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K91 Sutherland-LCO A
T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
0.4-m f/8.0 Schmidt-Cassegrain + CCD, 1.0-m f/8.0 Ritchey-Chrétien + CCD
Gaia-DR1

2018 KB_{4}, 4, 1, 0; 2018 LK, 8, 1, 0; *[12, 2, 0∗, 2018/05/27–2018/06/08]*

K93 Sutherland-LCO C
T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
1.0-m f/8.0 Ritchey-Chrétien + CCD
Gaia-DR1

2014 WG_{365}, 8, 1, 0; 2018 LC, 3, 1, 0; 2018 NP_{15}, 3, 1, 0; 2018 PC, 4, 1, 0; (12966), 3, 1, 0; (64594), 3, 1, 0; (123291), 4, 1, 0; *[28, 7, 0∗, 2018/06/02–2018/08/04]*

K95 MASTER-SAAO Observatory, Sutherland
V. Lipunov, Sternberg Astronomical Institute of Lomonosov Moscow State University, Universitetsky prospekt, 13, 23, 119234, Moscow, Russian Federation [lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, D. Buckley, P. Balanutsa, V. Kornilov, A. Kuznetsov, V. Chazov, N. Tiurina, O. Gress, A. Rezaeva, D. Zimnukhov
0.4-m f/2.5 reflector + CCD
USNO-B1.0

2002 LV_{6}, 5, 1, 0; 2002 RV_{273}, 3, 1, 0; 2006 SN_{33}, 2, 1, 0; 2008 HW_{29}, 2, 1, 0; 2008 LX_{16}, 5, 1, 0; 2009 MW_{6}, 2, 1, 0; 2010 MY_{106}, 4, 1, 0; 2010 OZ_{14}, 10, 2, 2; 2013 JZ_{2}, 3, 1, 0; 2014 HM_{187}, 2, 1, 0; 2015 AV_{12}, 2, 1, 0; 2015 UK_{68}, 4, 1, 0; 2018 DX_{3}, 4, 1, 0; (3), 2, 1, 0; (52), 2, 1, 0; (55), 6, 1, 0; (57), 3, 1, 0; (86), 8, 1, 0; (96), 9, 3, 25; (102), 3, 1, 0; (123), 2, 1, 0; (139), 3, 1, 0; (140), 2, 1, 0; (145), 4, 1, 0; (152), 3, 1, 0; (168), 3, 1, 0; (173), 18, 3, 3; (187), 9, 3, 4; (225), 3, 1, 0; (232), 3, 1, 0; (237), 6, 1, 0; (258), 2, 1, 0; (289), 2, 1, 0; (307), 2, 1, 0; (318), 2, 1, 0; (402), 6, 1, 0; (417), 2, 1, 0; (423), 3, 1, 0; (439), 6, 1, 0; (441), 6, 1, 0; (472), 6, 1, 0; (481), 6, 1, 0; (486), 2, 1, 0; (498), 6, 1, 0; (499), 2, 1, 0; (530), 6, 1, 0; (547), 2, 1, 0; (578), 7, 2, 31; (589), 2, 1, 0; (593), 2, 1, 0; (601), 3, 1, 0; (617), 4, 2, 2; (633), 8, 1, 0; (635), 2, 1, 0; (645), 3, 1, 0; (647), 4, 1, 0; (656), 2, 1, 0; (661), 3, 1, 0; (690), 3, 1, 0; (698), 3, 1, 0; (710), 6, 1, 0; (711), 2, 1, 0; (718), 6, 1, 0; (742), 6, 1, 0; (744), 6, 1, 0; (761), 3, 1, 0; (764), 3, 1, 0; (767), 3, 1, 0; (795), 9, 2, 1; (818), 3, 1, 0; (820), 3, 1, 0; (828), 3, 1, 0; (874), 2, 1, 0; (907), 5, 1, 0; (926), 3, 1, 0; (963), 4, 1, 0; (1010), 4, 1, 0; (1012), 11, 1, 0; (1013), 6, 1, 0; (1015), 2, 1, 0; (1018), 14, 4, 4; (1027), 3, 1, 0; (1033), 5, 1, 0; (1037), 2, 1, 0; (1047), 3, 1, 0; (1049), 4, 1, 0; (1053), 6, 1, 0; (1077), 5, 1, 0; (1085), 5, 1, 0; (1099), 5, 1, 0; (1114), 3, 1, 0; (1154), 2, 1, 0; (1155), 8, 1, 0; (1161), 1, 1, 0; (1163), 2, 1, 0; (1186), 8, 2, 13; (1189), 4, 1, 0; (1196), 6, 1, 0; (1220), 6, 1, 0; (1223), 5, 1, 0; (1257), 2, 1, 0; (1271), 2, 1, 0; (1311), 4, 1, 0; (1327), 6, 1, 0; (1341), 2, 1, 0; (1343), 5, 1, 0; (1379), 3, 1, 0; (1385), 6, 1, 0; (1412), 3, 1, 0; (1414), 2, 1, 0; (1415), 4, 1, 0; (1416), 6, 1, 0; (1428), 2, 1, 0; (1432), 6, 1, 0; (1442), 4, 1, 0; (1454), 2, 1, 0; (1455), 2, 1, 0; (1480), 6, 1, 0; (1500), 3, 1, 0; (1523), 4, 1, 0; (1573), 6, 1, 0; (1581), 5, 1, 0; (1589), 10, 2, 26; (1665), 8, 1, 0; (1678), 4, 1, 0; (1681), 6, 1, 0; (1691), 6, 1, 0; (1718), 2, 1, 0; (1730), 2, 1, 0; (1746), 8, 1, 0; (1800), 3, 1, 0; (1828), 2, 1, 0;

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(418598), 2, 1, 0; (421042), 4, 1, 0; (425117), 1, 1, 0; (426550), 3, 1, 0; (430383), 2, 1, 0; (430678), 8, 2, 1; (430815), 4, 1, 0; (444995), 2, 1, 0; (453017), 6, 1, 0; (454541), 2, 1, 0; (458662), 6, 1, 0; (459808), 2, 1, 0; (467581), 3, 1, 0; (468730), 7, 1, 0; (483517), 8, 2, 2; (483702), 3, 1, 0; (485441), 4, 1, 0; *[10255, 2492, 0∗, 2015/07/12–2018/07/25]*

K97 Freconrupt
P. Ditz, 35 rue Schweighhaeuser, Strasbourg 67000, France

0.20-m f/7.45 reflector + CCD
UCAC-4
(44556), 4, 1, 0; *[4, 1, 0∗, 2018/09/10–2018/09/11]*

L01 Višnjan Observatory, Tican
K. Korlević, Istarsks 6, Višnjan HR-52463, Croatia [koradoa@astro.hr]
Observers K. Korlević, D. Marusic, V. Brcic, G. Kervina, M. Himelreich, F. Hrzenjak, E. Pettarin, D. Ivanic, M. Rakitic, L. Gelo, J. Minic, R. Ligustri, D. Vida, A. Dragovic, M. Dodovic, A. Radica, R. Jenko, I. Lyon
1.0-m f/2.9 reflector + CCD
Gaia-DR1, USNO-SA2.0, URAT-1, Gaia-DR2, PPMXL, UCAC-4
2000 SR_{94}, 3, 1, 0; 2001 UU, 3, 1, 0; 2002 CY_{9}, 2, 1, 0; 2004 TK_{12}, 3, 1, 0; 2005 FG, 3, 1, 0; 2005 MF_{5}, 3, 1, 0; 2006 QM_{33}, 3, 1, 0; 2007 LT, 2, 1, 0; 2007 UV_{145}, 3, 1, 0; 2008 SM_{260}, 6, 2, 1; 2008 UV_{91}, 3, 1, 0; 2008 UL_{103}, 2, 1, 0; 2011 CX_{46}, 3, 1, 0; 2013 QS_{6}, 2, 1, 0; 2013 TZ_{160}, 6, 2, 1; 2013 WW_{18}, 2, 1, 0; 2013 WM_{90}, 3, 1, 0; 2014 RY_{12}, 3, 1, 0; 2015 AM_{45}, 3, 1, 0; 2015 FC_{37}, 3, 1, 0; 2015 MD_{150}, 3, 1, 0; 2015 SW_{6}, 4, 2, 1; 2015 TP_{144}, 3, 1, 0; 2016 TW_{92}, 3, 1, 0; 2017 BN_{29}, 2, 1, 0; 2017 BE_{44}, 3, 1, 0; 2018 JV, 4, 1, 0; 2018 JV_{2}, 4, 1, 0; 2018 KH_{2}, 4, 1, 0; 2018 KF_{3}, 7, 1, 0; 2018 KB_{4}, 8, 1, 0; 2018 LB, 6, 1, 0; 2018 LC, 2, 1, 0; 2018 LD, 5, 1, 0; 2018 LG, 5, 2, 1; 2018 LH, 2, 1, 0; 2018 LJ, 7, 1, 0; 2018 LK, 6, 1, 0; 2018 LL, 4, 1, 0; 2018 LM, 4, 1, 0; 2018 LN, 3, 1, 0; 2018 LX, 3, 1, 0; 2018 LC_{1}, 3, 1, 0; 2018 LF_{1}, 3, 1, 0; 2018 LG_{1}, 4, 1, 0; 2018 LL_{2}, 2, 1, 0; 2018 LN_{2}, 4, 1, 0; 2018 LR_{2}, 2, 1, 0; 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2018 MZ_{6}, 2, 1, 0; 2018 MB_{7}, 2, 1, 0; 2018 MD_{7}, 2, 1, 0; 2018 MF_{7}, 2, 1, 0; 2018 MK_{8}, 4, 1, 0; 2018 MO_{8}, 2, 1, 0; 2018 MP_{8}, 2, 1, 0; 2018 NA, 4, 1, 0; 2018 NB, 4, 1, 0; 2018 NC, 2, 1, 0; 2018 ND, 4, 1, 0; 2018 NF, 2, 1, 0; 2018 NH, 6, 1, 0; 2018 NL, 3, 1, 0; 2018 NN, 3, 1, 0; 2018 NP, 3, 1, 0; 2018 NQ, 6, 1, 0; 2018 NR, 3, 1, 0; 2018 NT, 3, 1, 0; 2018 NV, 7, 1, 0; 2018 ND_{1}, 4, 1, 0; 2018 ND_{2}, 2, 1, 0; 2018 NK_{2}, 2, 1, 0; 2018 NL_{2}, 2, 1, 0; 2018 NP_{2}, 3, 1, 0; 2018 NV_{2}, 4, 1, 0; 2018 NY_{2}, 2, 1, 0; 2018 NZ_{2}, 4, 1, 0; 2018 NB_{3}, 3, 1, 0; 2018 NU_{3}, 7, 1, 0; 2018 NV_{3}, 3, 1, 0; 2018 ND_{4}, 5, 1, 0; 2018 NE_{4}, 4, 1, 0; 2018 NF_{4}, 5, 1, 0; 2018 NG_{4}, 5, 1, 0; 2018 NH_{4}, 4, 1, 0; 2018 NJ_{4}, 2, 1, 0; 2018 NL_{4}, 8, 1, 0; 2018 NM_{4}, 2, 1, 0; 2018 NO_{4}, 2, 1, 0; 2018 NP_{4}, 4, 1, 0; 2018 NQ_{4}, 2, 1, 0; 2018 NS_{4}, 2, 1, 0; 2018 NY_{14}, 2, 1, 0; 2018 NZ_{14}, 6, 2, 11; 2018 OB, 2, 1, 0; 2018 OD, 3, 1, 0; 2018 OE, 3, 1, 0; 2018 OF, 3, 1, 0; 2018 OJ, 3, 1, 0; 2018 OK, 2, 1, 0; 2018 OL, 7, 2, 1; 2018 OM, 7, 2, 1; 2018 OO, 4, 2, 33; 2018 OP, 4, 1, 0; 2018 OQ, 5, 1, 0; 2018 OR, 4, 1, 0; 2018 OS, 2, 1, 0; 2018 OV, 3, 1, 0; 2018 OW, 6, 1, 0; 2018 OY, 3, 1, 0; 2018 OZ, 3, 1, 0; 2018 OA_{1}, 4, 1, 0; 2018 OR_{1} ∗, 13, 2, 1; 2018 OS_{1} ∗, 4, 2, 1; 2018 OT_{1} ∗, 5, 2, 1; 2018 PA, 2, 1, 0; 2018 PB, 3, 1, 0; 2018 PF_{1}, 4, 2, 1; 2018 PT_{1}, 6, 2, 2; 2018 PG_{2} ∗, 7, 2, 1; 2018 PH_{2} ∗, 6, 2, 1; 2018 PJ_{2} ∗, 8, 2, 1; 2018 PK_{2} ∗, 6, 2, 1; 2018 PR_{7}, 3, 1, 0; 2018 PU_{7}, 3, 1, 0; 2018 PW_{7}, 2, 1, 0; 2018 PX_{7}, 3, 1, 0; 2018 PY_{7}, 3, 1, 0; 2018 PA_{8}, 2, 1, 0; 2018 PD_{8}, 2, 1, 0; 2018 PE_{8}, 2, 1, 0; 2018 PL_{8}, 3, 1, 0; 2018 PU_{8}, 3, 1, 0; 2018 PJ_{9}, 3, 1, 0; 2018 PL_{9}, 3, 1, 0; 2018 PM_{9}, 3, 1, 0; 2018 PN_{9}, 4, 2, 1; 2018 PP_{9}, 6, 2, 1; 2018 PG_{10}, 3, 1, 0; 2018 PH_{10}, 2, 1, 0; 2018 PM_{10}, 4, 1, 0; 2018 PU_{10}, 2, 1, 0; 2018 PV_{10}, 3, 1, 0; 2018 PR_{16} ∗, 8, 3, 11; 2018 PS_{19} ∗, 9, 3, 9; 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2018 RH_{5}, 2, 1, 0; 2018 RO_{5}, 2, 1, 0; 2018 RU_{5}, 2, 1, 0; 2018 RV_{5}, 3, 1, 0; 2018 RB_{6}, 2, 1, 0; 2018 RC_{6}, 3, 1, 0; 2018 RF_{6}, 3, 1, 0; 2018 RD_{7}, 2, 1, 0; 2018 RR_{7}, 2, 1, 0; 2018 RU_{7}, 2, 1, 0; 2018 RW_{7}, 2, 1, 0; 2018 RA_{8}, 2, 1, 0; 2018 RB_{8}, 2, 1, 0; 2018 RC_{8}, 2, 1, 0; 2018 RD_{8}, 2, 1, 0; 2018 RE_{8}, 2, 1, 0; 2018 RF_{8}, 2, 1, 0; 2018 RG_{8}, 3, 1, 0; 2018 RJ_{8}, 2, 1, 0; 2018 RL_{8}, 2, 1, 0; 2018 RO_{8}, 3, 1, 0; 2018 RP_{8}, 2, 1, 0; 2018 RQ_{8}, 2, 1, 0; 2018 RR_{8}, 2, 1, 0; 2018 RT_{8}, 2, 1, 0; 2018 RU_{8}, 3, 1, 0; 2018 SA, 2, 1, 0; 2018 SB, 2, 1, 0; 2018 SC, 4, 1, 0; 2018 SG, 2, 1, 0; 2018 SH, 9, 1, 0; 2018 SJ, 2, 1, 0; 2018 SN, 2, 1, 0; 2018 SV, 3, 1, 0; 2018 SW, 3, 1, 0; 2018 SX, 4, 1, 0; 2018 SY, 3, 1, 0; 2018 SZ, 2, 1, 0; 2018 SA_{1}, 2, 1, 0; 2018 SB_{1}, 2, 1, 0; 2018 SC_{1}, 4, 1, 0; 2018 SD_{1}, 5, 1, 0; *[1366, 419, 20∗, 2017/08/26–2018/09/20]*

L04 ROASTERR-1 Observatory, Cluj-Napoca
L. Hudin, Oasului 344C, Cluj Napoca, 400645 Cluj, Romania
[lucian.hudin@gmail.com]
0.3-m f/5 reflector + CCD
PPMXL
2012 OD_{1}, 2, 1, 0; 2015 DP_{155}, 4, 1, 0; 2015 FP_{118}, 4, 1, 0; 2018 EJ_{4}, 3, 1, 0; 2018 KE_{3}, 3, 1, 0; 2018 LK, 4, 1, 0; 2018 LQ_{2}, 3, 1, 0; 2018 LF_{5}, 3, 1, 0; 2018 MB_{7}, 4, 1, 0; 2018 MR_{8}, 2, 1, 0; 2018 NA, 3, 1, 0; 2018 PB, 2, 1, 0; 2018 PR_{7}, 4, 1, 0; 2018 PU_{7}, 3, 1, 0; 2018 PM_{10}, 5, 1, 0; 2018 QU_{1}, 5, 2, 10; 2018 RA, 4, 1, 0; 2018 RD_{1}, 6, 2, 3; 2018 RY_{3}, 3, 1, 0; 2018 RD_{5}, 4, 1, 0; 2018 RO_{5}, 3, 1, 0; 2018 RT_{5}, 3, 1, 0; 2018 RB_{6}, 3, 1, 0; 2018 RP_{8}, 3, 1, 0; 2018 SB, 3, 1, 0; 2018 SC, 3, 1, 0; 2018 SD_{1}, 3, 1, 0; (115052), 2, 1, 0; (138847), 3, 1, 0; (144332), 5, 1, 0; (441987), 3, 1, 0; (455550), 3, 1, 0; *[108, 32, 0∗, 2018/06/05–2018/09/19]*

L05 Dridri Observatory, Franciacorta
C. Ghidetti, via Roma 107, Passirano, Brescia 25050, Italy
[sandra.delbono@tin.it]
UCAC-4
UCAC-4
(176), 4, 1, 0; (253), 5, 1, 0; (483), 3, 1, 0; (747), 3, 1, 0; (754), 2, 1, 0; (756), 4, 2, 54; (1102), 4, 2, 46; (1436), 2, 1, 0; (2356), 2, 1, 0; (4770), 2, 1, 0; (7173), 2, 1, 0; (9000), 2, 1, 0; (15318), 3, 1, 0; (27259), 2, 1, 0; (55063), 5, 1, 0; *[45, 15, 0∗, 2018/06/01–2018/09/18]*

L06 Sormano 2 Observatory, Bellagio Via Lattea
G. Ventre, Via Valassina 176, I-22021 Bellagio (CO), Italy
[obs.sormano@alice.it]
Observers G. Ventre, E. Valli
Measurers G. Ventre, P. Sicoli
0.28-m f/6.3 reflector + CCD
Gaia-DR1, UCAC-4
(6206), 3, 1, 0; (11667), 3, 1, 0; (216248), 2, 1, 0; *[8, 3, 0∗, 2018/09/03–2018/09/04]*

L17 Observatori Astronòmic Albanyà
P. Guerra, Carrer Del Pou 2, Roses, Girona 17480, Spain [pereguerra@gmail.com]
0.4-m reflector + CCD
USNO-A2.0, UCAC-4
(3525), 3, 1, 0; (38163), 3, 1, 0; (101488), 3, 1, 0; *[9, 3, 0∗, 2018/08/21–2018/08/22]*

L26 Sanderphil Urban Observatory, Civitavecchia
F. Curti, Via delle magnolie, 64 Santa Marinella, Rome 00058, Italy [contacts@sanderphil.space]
0.20-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
(472), 4, 1, 0; *[4, 1, 0∗, 2018/06/01]*

L27 29PREMOTE Observatory, Dauban
J.-F. Soulier, Maisoncelles, Seine et Marne, France [jean-francois.soulier2@wanadoo.fr]
0.20-m $f/4$ Newtonian reflector + CCD
UCAC-4
(60558), 3, 1, 0; (280211), 1, 1, 0; (390337), 2, 1, 0; *[6, 3, 0∗, 2018/07/20–2018/09/20]*

L28 ISON-Castelgrande Observatory
S. Schmalz, Geschwister-Scholl-Str. 14, Wiesbaden, Hessen 65197, Germany [sergiuspro77@gmail.com]
0.22-m $f/2.3$ reflector + CCD
UCAC-4
(1627), 34, 2, 1; (25916), 22, 2, 1; (85953), 17, 2, 1; (475967), 14, 2, 1; *[87, 4, 0∗, 2018/04/06–2018/04/08]*

L29 Drebach-South Observatory, Windhoek
G. Lehmann, no details supplied [g.l@kleinplanetenseite.de]
Observers G. Lehmann, J. Lorenz
0.4-m $f/3.6$ reflector + CCD
Gaia-DR2
2018 DX_3, 10, 2, 1; 2018 FY_1, 6, 1, 0; 2018 NN_4, 12, 1, 0; 2018 OL, 4, 1, 0; 2018 OM, 4, 1, 0; 2018 PK_{22}, 6, 1, 0; (10235), 2, 1, 0; (23090), 3, 1, 0; (23692), 2, 1, 0; (26962), 1, 1, 0; (30677), 4, 1, 0; (31380), 4, 1, 0; (35151), 2, 1, 0; (54836), 2, 1, 0; (65638), 2, 1, 0; (65674), 3, 1, 0; (68348), 6, 1, 0; (80195), 4, 1, 0; (88074), 4, 1, 0; (88176), 3, 1, 0; (88793), 4, 1, 0; (90178), 3, 1, 0; (100373), 4, 1, 0; (115795), 2, 1, 0; (119105), 3, 1, 0; (119303), 4, 1, 0; (120709), 4, 1, 0; (132564), 3, 1, 0; (138847), 5, 1, 0; (152807), 2, 1, 0; (156024), 3, 1, 0; (156759), 2, 1, 0; (224818), 4, 1, 0; (232781), 4, 1, 0; (244777), 3, 1, 0; (250010), 2, 1, 0; (252894), 4, 1, 0; (255039), 4, 1, 0; (280889), 4, 1, 0; (289323), 3, 1, 0; (292777), 3, 1, 0; (304466), 4, 1, 0; (319303), 4, 1, 0; (321467), 4, 1, 0; (356969), 3, 1, 0; (395207), 3, 1, 0; (405243), 3, 1, 0; (443947), 2, 1, 0; *[177, 48, 0∗, 2018/04/17–2018/08/15]*

L30 Lohbach Observatory, Benninghofen
T. Zilch, Hofeswiese 32, Dortmund-Benninghofen, Nordrheinwestfalen 44269 Germany [moonwise@gmx.de]
0.3-m $f/4$ reflector + CCD
PPMXL
(1334), 147, 5, 4; (1427), 13, 1, 0; *[160, 2, 0∗, 2018/05/04–2018/05/09]*

L31 RaSo Observatory, Chemnitz
C. Kunze, Eschenweg 4, Chemnitz 09247 Germany [c.kunze@tore-chemnitz.de]
0.25-m $f/3.6$ reflector + CCD
UCAC-4
(572), 6, 2, 1; (769), 6, 2, 1; (3141), 6, 2, 1; (3608), 6, 2, 1; (3925), 6, 2, 1; *[30, 5, 0∗, 2018/02/13–2018/02/14]*

L33 Ananjev
N. Mishevskiy, st. Nezavisimosti, h.114g, f.8, Ananjev, 66400 Ukraine [nikastro@ukr.net]
Observer N. Mishevskiy
Measurers N. Mishevskiy, S. Khlamov
0.25-m $f/4.7$ reflector + CCD
UCAC-4
2015 MF_{150}, 3, 1, 0; 2018 PO_{23}, 3, 1, 0; 2018 QG_1, 3, 1, 0; (88129), 3, 1, 0; *[12, 4, 0∗, 2017/10/28–2018/08/23]*

L51 MARGO, Nauchnij
G. Borisov, 40g-1 Nauchnij, Crimea 98409, Ukraine [gborisov3@yandex.ru]
Observer G. Borisov
Measurer A. Novichonok
0.3-m $f/2$ astrograph + CCD
UCAC-4
2016 LT_{11}, 3, 1, 0; *[3, 1, 0∗, 2016/05/05]*

L71 Vedrus Observatory, Azovskaya
O. Milantiev, Lugovaya 22, Azovskaya, Krasnodarskiy kray 353245, Russia [astrokrasn@gmail.com]
Observers O. Milantiev, I. Ionov
Measurers A. Belotsky, S. Khlamov
0.32-m $f/4.6$ reflector + CCD
UCAC-4
2018 NL_7, 6, 1, 0; 2018 OW ∗, 12, 2, 3; (191377), 5, 1, 0; *[23, 3, 1∗, 2018/07/20–2018/08/16]*

L72 Melezhy Astrophoto Observatory
A. Shuvalov, 117588, Moscow, Litovskiy bulvar, 46-2, Russia [a_shuvalov@mail.ru]
0.25-m $f/4.5$ reflector + CCD
UCAC-3
(170), 6, 2, 1; (230), 5, 2, 1; (389), 6, 2, 1; (409), 5, 2, 1; (480), 6, 2, 1; *[28, 5, 0∗, 2018/08/16–2018/08/17]*

N43 Plateau Observatory for Dome A, Kunlun Station
Q.-Z. Ye, Caltech MC/100-22, 1200 E California Bl, Pasadena, CA 91125, U.S.A. [qye@ipac.caltech.edu]
0.5-m $f/3.7$ Schmidt + CCD
Gaia-DR1
(945), 4, 2, 2; (45152), 4, 2, 1; *[8, 2, 0∗, 2012/04/18–2012/04/21]*

N55 Corona Borealis Observatory, Ngari
T. Chen, Corona Borealis Observatory, Kunsha Town, Ngari, Tibet, China [szcttw@21cn.net]
Observers P. Sun, T. Chen
0.3-m $f/7.2$ reflector + CCD, 0.4-m $f/3.8$ reflector + CCD
USNO-A2.0, UCAC-4
2018 NV, 3, 1, 0; *[3, 1, 0∗, 2018/07/08]*

P93 Space Tracking and Communications Center, JAXA
A. Asami, 2-1-1, Sengen, Tsukuba-City, Ibaraki 305-8505, Japan [Z-BSGC-NEO@ml.jaxa.jp]
Observers K. Nishiyama, T. Fujiwara, S. Urakawa, S. Okumura, T. Nimura, A. Asami

1.0-m $f/3.0$ reflector + CCD, 0.5-m $f/2.0$ reflector + CCD
UCAC-2, USNO-B1.0, GSC-ACT

2011 GA_{62}, 3, 1, 0; 2018 JC_3, 4, 1, 0; 2018 LB, 5, 1, 0; 2018 LK, 4, 1, 0; 2018 LC_1, 4, 1, 0; 2018 LL_2, 4, 1, 0; 2018 LQ_2, 6, 2, 26; 2018 LQ_3, 3, 1, 0; 2018 LC_5, 3, 1, 0; 2018 LF_5, 3, 1, 0; 2018 LO_5, 3, 1, 0; 2018 LW_5, 2, 1, 0; 2018 LX_5, 3, 1, 0; 2018 LT_6, 3, 1, 0; 2018 MX_6, 3, 1, 0; 2018 MB_7, 3, 1, 0; 2018 MK_8, 3, 1, 0; 2018 MM_8, 3, 1, 0; 2018 MR_8, 4, 1, 0; 2018 NA, 2, 1, 0; 2018 NB, 7, 2, 7; 2018 NX, 4, 1, 0; 2018 OL, 4, 1, 0; 2018 OW, 3, 1, 0; 2018 PB, 3, 1, 0; 2018 PT_7, 5, 1, 0; 2018 PL_8, 4, 1, 0; 2018 PJ_9, 7, 2, 1; 2018 PL_9, 6, 2, 2; 2018 PM_{10}, 4, 1, 0; 2018 PO_{23}, 7, 2, 4; 2018 QK_1, 3, 1, 0; 2018 QT_1, 3, 1, 0; 2018 QV_1, 4, 1, 0; 2018 RB, 4, 1, 0; 2018 RC, 4, 1, 0; 2018 RG_8, 5, 1, 0; (138847), 4, 1, 0; (139345), 4, 1, 0; *[153, 39, 0∗, 2018/06/01–2018/09/16]*

Q11 Shinshiro

T. Ikemura, 1-1211 Umegaoka, Tempaku-ku, Nagoya, Aichi, 468-0004 Japan [ikemura_tk@nifty.com]
Observer T. Ikemura
Measurer H. Sato
0.35-m $f/5$ reflector + CCD
UCAC-4

2005 NL_{43}, 3, 1, 0; (2060), 3, 1, 0; (2454), 4, 1, 0; (2478), 3, 1, 0; (3890), 3, 1, 0; (6685), 4, 1, 0; (7614), 3, 1, 0; (7647), 3, 1, 0; (7968), 6, 2, 33; (9388), 4, 1, 0; (9837), 3, 1, 0; (11769), 3, 1, 0; (13063), 3, 1, 0; (22891), 3, 1, 0; (23422), 3, 1, 0; (26759), 3, 1, 0; (26796), 3, 1, 0; (29789), 3, 1, 0; (34737), 3, 1, 0; (49890), 3, 1, 0; (50752), 3, 1, 0; (57126), 3, 1, 0; (66151), 3, 1, 0; (67364), 3, 1, 0; (76997), 3, 1, 0; (80816), 3, 1, 0; (94495), 3, 1, 0; (111630), 3, 1, 0; (112516), 3, 1, 0; (153126), 3, 1, 0; (153158), 3, 1, 0; (162946), 3, 1, 0; (188350), 3, 1, 0; (199793), 3, 1, 0; (203812), 3, 1, 0; (227604), 3, 1, 0; (282490), 3, 1, 0; (373094), 3, 1, 0; *[120, 38, 0∗, 2018/06/12–2018/08/19]*

Q21 Southern Utsunomiya

H. Nohara, 2-35-10 Nishikawadaminami, Utsunomiya, Tochigi, Japan [QFF01360@nifty.com]
0.4-m $f/3.8$ astrograph + CCD
UCAC-4

2018 NB, 7, 1, 0; (148), 3, 1, 0; (7152), 2, 1, 0; (134340), 2, 1, 0; *[14, 4, 0∗, 2018/07/20]*

Q33 Nayoro Observatory, Hokkaido University

H. Naito, 157-1 Nisshin, Nayoro, Hokkaido 096-0066, Japan [naito@nayoro-star.jp]
UCAC-4
UCAC-4

2018 RR_4, 2, 1, 0; *[2, 1, 0∗, 2018/09/12]*

Q38 Swan Hill

M. Mattiazzo, 12 Goyne Crescent, Swan Hill, Victoria 3585, Australia [mmatti@westnet.com.au]
UCAC-4
PPMXL, Gaia-DR2

2018 RD_1, 4, 1, 0; *[4, 1, 0∗, 2018/09/07]*

Q59 Siding Spring-LCO Clamshell #2

T. Lister, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet, A. Tedeschi
0.4-m $f/8.0$ Ritchey-Chrétien + CCD
Gaia-DR1

2018 PW_9, 3, 1, 0; (139428), 3, 1, 0; (517612), 3, 1, 0; *[9, 3, 0∗, 2018/08/07]*

Q60 ISON-SSO Observatory, Siding Spring

L. Elenin, 47-17, 8th March, St., Lyubertsy, Moscow region, 140007, Russia [l.elenin@gmail.com]
0.4-m $f/2.4$ reflector + CCD
UCAC-4

2000 CV_{150}, 3, 1, 0; 2006 AR_{108}, 3, 1, 0; 2007 FF_{53}, 6, 2, 10; 2007 RS_{268}, 3, 1, 0; 2007 RE_{329}, 9, 3, 59; 2007 RR_{330}, 3, 1, 0; 2007 TY_{457}, 3, 1, 0; 2008 CV_{218}, 3, 1, 0; 2010 CQ_{198}, 3, 1, 0; 2011 AO_{83}, 3, 1, 0; 2011 QZ_{24}, 3, 1, 0; 2012 PC_{14}, 3, 1, 0; 2012 YD_{12}, 3, 1, 0; 2013 JZ_2, 3, 1, 0; 2014 AP_{60}, 3, 1, 0; 2014 GA_{65}, 3, 1, 0; 2015 PW_{310}, 3, 1, 0; 2016 KE_{10} ∗, 3, 1, 0; 2017 DH_{36}, 3, 1, 0; *[66, 19, 1∗, 2015/08/08–2017/03/02]*

Q62 iTelescope Observatory, Siding Spring

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (1)
M. Urbanik, Moyzesova 1827, Èadca, 02201, Slovak Republic [stone@astronomie.cz] (2)
N. Falla, 34 Orchard Road, Chessington Surrey, KT9 1AN, U.K. [n.falla@btopenworld.com] (8)
P. S. Lau, Flat 5B, Block B, Mountain Court, 5 HoManTin Hill Road, Kowloon, Hong Kong [mail@betty-lau.com] (17)
M. Suzuki, 3-15-25-1301 Motoimaizumi. Utsunomiya, Tochigi 321-0954, Japan [mtnsuzuki@nifty.com] (25)
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (30)
S. Kürti, Gugska 27, 940 82 Nove Zamky, Slovakia [stefan@skaw.sk] (33)
W. Romanishin, 1933 Whispering Pines Cir, Norman OK 73072, U.S.A. [wromanishin@ou.edu] (48)
J.-C. Merlin, 18 rue P.Mendes-France, 71200 Le Creusot, France [jcmerlin@wanadoo.fr] (49)
D. Denisenko, no details supplied [d.v.denisenko@gmail.com] (51)
D. P. Dean, 3 Green Valley Lake Rd, Old Lyme, CT 06371, U.S.A. [deandp371@gmail.com] (52)
G. Gašparović, Badaliceva 25, 10000 Zagreb, Croatia [gasparovic@actarius.hr] (54)
W. Clark, no details supplied [twinklespinalot@gmail.com] (57)
D. Parrott, 9001 SW 55th St, Oklahoma City, OK 73179, U.S.A. [dparrott2002@gmail.com] (61)
R. Reed, 13
Belsize Grove, Flat 1, London NW3 4UX, UK [richard.reed@idnet.com] (62)
Observers S. M. Tilley, G. van Buitenen, D. Denisenko, I. Larin, M. Suzuki, R. Ligustri, E. Bryssinck, M. Urbanik, K. Sokolovsky, G. Baj, H. Sato, N. Falla, R. Reed, D. Storey, B. Lütkenhöner, J.-C. Merlin, D. Parrott, P. S. Lau, M. Mattiazzo, G. Crinklaw, E. Guido, G. Gašparović, Y. Chen, G. Y. Gasparovic, S. Kürti, M. Du, M. Khan, D. Torrejon, A. Zhu, J. Brettle, A. Caosun, A. Perea, T. Tan, N. Boorady, A. LaBarca, E. Lee, Z. Zhang, E. Agarwal, L. Carpenter, P. Luljak, D. Saunders, R. Kumar, J. Lloyd, M. Pandit, A. Venkatraman, N. Paul, W. Clark, W. Romanishin
0.43-m $f/6.8$ reflector + CCD, 0.70-m $f/6.6$ reflector + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer
UCAC-4, USNO-B1.0, Gaia-DR2, CMC-15, UCAC-3, NOMAD, Gaia-DR1, GSC-ACT, PPMXL

{17} 2005 LK_{29}, 7, 2, 2; 2018 NW_{14} ∗, 9, 3, 3; (504), 4, 1, 0; (959), 4, 1, 0; (3422), 8, 1, 0; (5464), 4, 1, 0; (8476), 8, 1, 0; (13519), 4, 1, 0; (18585), 4, 1, 0; (20036), 8, 1, 0; (20191), 4, 1, 0; (20965), 4, 1, 0; (21719), 3, 1, 0; (21827), 4, 1, 0; (22578), 3, 1, 0; (22818), 12, 2, 1; (23262), 4, 1, 0; (25201), 4, 1, 0; (25292), 4, 1, 0; (26102), 4, 1, 0; (26588), 4, 1, 0; (27360), 4, 1, 0; (27827), 4, 1, 0; (31360), 4, 1, 0; (31384), 4, 1, 0; (37450), 4, 1, 0; (37508), 4, 1, 0; (38441), 4, 1, 0; (41112), 3, 1, 0; (41372), 4, 1, 0; (46207), 4, 1, 0; (46620), 4, 1, 0; (46775), 4, 1, 0; (50637), 4, 1, 0; (52765), 4,

1, 0; (56025), 8, 1, 0; (57118), 4, 1, 0; (58177), 4, 1, 0; (61093), 8, 2, 1; (61934), 12, 2, 1; (64458), 8, 2, 1; (65034), 3, 1, 0; (65849), 4, 1, 0; (66425), 12, 2, 1; (67374), 4, 1, 0; (69642), 4, 1, 0; (69698), 4, 1, 0; (71819), 4, 1, 0; (72616), 4, 1, 0; (72749), 4, 1, 0; (74619), 4, 1, 0; (75440), 4, 1, 0; (75535), 4, 1, 0; (78169), 4, 1, 0; (78533), 4, 1, 0; (79808), 4, 1, 0; (80828), 4, 1, 0; (86954), 12, 2, 1; (91598), 4, 1, 0; (91843), 4, 1, 0; (92185), 4, 1, 0; (92671), 4, 1, 0; (96655), 4, 1, 0; (100585), 4, 1, 0; (101669), 4, 1, 0; (102309), 4, 1, 0; (105955), 4, 1, 0; (109058), 4, 1, 0; (109075), 8, 2, 1; (111320), 4, 1, 0; (113015), 4, 1, 0; (114250), 4, 1, 0; (114597), 4, 1, 0; (124087), 4, 1, 0; (124370), 4, 1, 0; (124460), 4, 1, 0; (124996), 4, 1, 0; (126086), 4, 1, 0; (126322), 4, 1, 0; (126767), 4, 1, 0; (145811), 4, 1, 0; (145817), 4, 1, 0; (151996), 4, 1, 0; (160747), 4, 1, 0; (161480), 4, 1, 0; (163443), 4, 1, 0; (167109), 4, 1, 0; (170823), 4, 1, 0; (178814), 4, 1, 0; (188367), 12, 2, 1; (190891), 3, 1, 0; (198111), 4, 1, 0; (200711), 3, 1, 0; (204469), 4, 1, 0; (205430), 4, 1, 0; (206475), 3, 1, 0; (206958), 4, 1, 0; (212014), 4, 1, 0; (235590), 4, 1, 0; (238523), 4, 1, 0; (241757), 4, 1, 0; (291277), 4, 1, 0; (293787), 8, 2, 1; (294193), 4, 1, 0; (307220), 4, 1, 0; (308979), 4, 1, 0; (316788), 4, 1, 0; (333151), 4, 1, 0; (376837), 3, 1, 0; (414474), 4, 1, 0; (416664), 4, 1, 0; (416869), 4, 1, 0; (425893), 4, 1, 0; (467174), 11, 3, 9; *[535, 114, 1∗, 2016/02/08–2018/07/17]*

{1} 2011 SJ_{67}, 5, 2, 1; 2012 DG_{61}, 3, 1, 0; 2013 PD_{78}, 3, 1, 0; 2017 UW_{51}, 3, 1, 0; 2018 AS_{18}, 3, 1, 0; 2018 KB_4, 5, 2, 2; 2018 LO, 3, 1, 0; 2018 OC, 3, 1, 0; 2018 PL_{28}, 2, 1, 0; (495), 3, 1, 0; (1956), 3, 1, 0; (3504), 3, 1, 0; (5059), 2, 1, 0; (6017), 3, 1, 0; (10488), 2, 1, 0; (26724), 3, 1, 0; (35792), 3, 1, 0; (48734), 3, 1, 0; (48876), 3, 1, 0; (55315), 2, 1, 0; (70774), 3, 1, 0; (84508), 2, 1, 0; (88954), 4, 1, 0; (89598), 3, 1, 0; (94630), 3, 1, 0; (98167), 3, 1, 0; (98372), 3, 1, 0; (124007), 3, 1, 0; (124823), 3, 1, 0; (130952), 3, 1, 0; (134219), 3, 1, 0; (139406), 3, 1, 0; (150756), 3, 1, 0; (177292), 3, 1, 0; (190919), 3, 1, 0; (194053), 2, 1, 0; (197712), 3, 1, 0; (208050), 3, 1, 0; (268575), 5, 2, 1; (271325), 2, 1, 0; (362373), 3, 1, 0; (364011), 3, 1, 0; (400770), 3, 1, 0; (402644), 2, 1, 0; (418497), 3, 1, 0; *[134, 45, 0∗, 2013/07/31–2018/09/17]*

{2} 2018 NB, 3, 1, 0; *[3, 1, 0∗, 2018/07/02]*

{8} 2005 SF_{106}, 3, 1, 0; 2006 UF_{125}, 5, 1, 0; 2010 TQ_{14}, 4, 1, 0; 2011 SB_{71}, 17, 5, 55; 2011 SS_{129}, 4, 1, 0; 2011 UV_{418}, 3, 1, 0; 2012 BF_{24}, 7, 2, 2; 2012 BX_{130}, 14, 4, 28; 2012 DA_{101}, 4, 1, 0; 2013 JH_{47}, 3, 1, 0; 2013 RP_{21}, 6, 2, 1; 2014 NL_{64}, 7, 2, 1; 2017 SQ_{131} ∗, 12, 3, 4; 2018 NP_{13} ∗, 10, 3, 3; 2018 NQ_{13} ∗, 8, 2, 1; 2018 NU_{14} ∗, 8, 2, 2; 2018 OL_1 ∗, 7, 2, 1; 2018 OM_1 ∗, 8, 2, 1; 2018 ON_1 ∗, 7, 2, 1; 2018 PV_{16}, 4, 1, 0; 2018 PW_{16}, 6, 2, 1; 2018 PQ_{27} ∗, 7, 2, 2; (86324), 7, 2, 1; (96189), 7, 2, 1; (123056), 4, 1, 0; *[172, 25, 8∗, 2014/07/21–2018/09/10]*

{48} 2017 RG_{16}, 2, 1, 0; *[2, 1, 0∗, 2018/09/09]*

{49} 2002 OB_{20}, 6, 2, 34; 2010 UY_{16}, 3, 1, 0; 2011 UA_{79}, 6, 2, 2; 2012 VY_{86}, 3, 1, 0; 2013 WS_{66}, 3, 1, 0; 2014 ML_{73}, 6, 2, 1; 2014 WT_{237}, 3, 1, 0; 2015 HH_{171}, 3, 1, 0; 2015 QR_8, 6, 2, 1; 2016 CO_{282}, 3, 1, 0; 2018 NJ_7 ∗, 9, 3, 28; 2018 NK_7 ∗, 9, 3, 30; 2018 NL_7 ∗, 12, 4, 36; 2018 NL_{12} ∗, 3, 1, 0; 2018 PQ_{16} ∗, 9, 3, 8; 2018 PD_{18} ∗, 6, 2, 2; 2018 PE_{18} ∗, 6, 2, 2; (725), 6, 2, 1; (1003), 3, 1, 0; (1557), 3, 1, 0; (1962), 3, 1, 0; (2310), 3, 1, 0; (2404), 3, 1, 0; (3804), 3, 1, 0; (3884), 3, 1, 0; (3914), 3, 1, 0; (4266), 18, 6, 36; (4798), 6, 2, 1; (5209), 3, 1, 0; (5302), 6, 2, 1; (5595), 3, 1, 0; (5957), 3, 1, 0; (6192), 3, 1, 0; (6903), 3, 1, 0; (7590), 3, 1, 0; (8337), 3, 1, 0; (8733), 6, 2, 1; (9535), 3, 1, 0; (10171), 3, 1, 0; (10424), 3, 1, 0; (10564), 3, 1, 0; (10610), 6, 2, 1; (10728), 3, 1, 0; (11092), 3, 1, 0; (11168), 3, 1, 0; (11567), 6, 2, 1; (11674), 6, 2, 1; (12657), 3, 1, 0; (14963), 3, 1, 0; (15084), 3, 1, 0; (15181), 6, 2, 1; (16021), 3, 1, 0; (16231), 3, 1, 0; (16866), 3, 1, 0; (16889), 3, 1, 0; (17342), 3, 1, 0; (17510), 6, 2, 1; (17751), 6, 2, 1; (18071), 3, 1, 0; (18109), 3, 1, 0; (18263), 3, 1, 0; (18431), 3, 1, 0; (18537), 6, 2, 1; (18555), 3, 1, 0; (18574), 3, 1, 0; (18825), 3, 1, 0; (19417), 3, 1, 0; (19787), 3, 1, 0; (20652), 3, 1, 0; (21533), 3, 1, 0; (21544), 3, 1, 0; (22061), 6, 2, 1; (22648), 3, 1, 0; (23172), 3, 1, 0; (23200), 3, 1, 0; (23538), 6, 2, 1; (26828), 6, 2, 1; (26959), 3, 1, 0; (28361), 3, 1, 0; (28495), 6, 2, 1; (28684), 3, 1, 0; (29450), 6, 2, 1; (30146), 3, 1, 0; (31860), 3, 1, 0; (32433), 3, 1, 0; (33183), 3, 1, 0; (33575), 3, 1, 0; (34159), 3, 1, 0; (36925), 3, 1, 0; (36978), 3, 1, 0; (37456), 3, 1, 0; (37560), 3, 1, 0; (37573), 6, 2, 1; (38271), 3, 1, 0; (39987), 3, 1, 0; (40368), 3, 1, 0; (41513), 3, 1, 0; (41933), 3, 1, 0; (43121), 3, 1, 0; (43599), 3, 1, 0; (44054), 3, 1, 0; (44240), 3, 1, 0; (44721), 3, 1, 0; (44764), 3, 1, 0; (45494), 3, 1, 0; (45557), 3, 1, 0; (46898), 3, 1, 0; (47109), 6, 2, 1; (47188), 6, 2, 1; (47842), 6, 2, 1; (48563), 3, 1, 0; (48859), 6, 2, 1; (49478), 3, 1, 0; (49548), 6, 2, 1; (49882), 3, 1, 0; (50376), 6, 2, 1; (50590), 3, 1, 0; (51575), 6, 2, 1; (51667), 6, 2, 1; (51851), 6, 2, 1; (52448), 6, 2, 1; (52923), 6, 2, 1; (53457), 3, 1, 0; (54018), 6, 2, 1; (54310), 3, 1, 0; (54404), 3, 1, 0; (54889), 6, 2, 1; (56549), 6, 2, 1; (56957), 6, 2, 1; (57060), 3, 1, 0; (59151), 3, 1, 0; (59157), 3, 1, 0; (60440), 3, 1, 0; (60570), 3, 1, 0; (60850), 3, 1, 0; (60965), 6, 2, 1; (61707), 3, 1, 0; (62393), 3, 1, 0; (62487), 3, 1, 0; (62527), 3, 1, 0; (63077), 3, 1, 0; (63510), 3, 1, 0; (63862), 3, 1, 0; (65098), 3, 1, 0; (65462), 3, 1, 0; (65921), 3, 1, 0; (66110), 6, 2, 1; (66975), 3, 1, 0; (67219), 3, 1, 0; (67240), 3, 1, 0; (67362), 3, 1, 0; (69007), 3, 1, 0; (69080), 6, 2, 1; (69670), 3, 1, 0; (70258), 3, 1, 0; (71018), 6, 2, 1; (71332), 6, 2, 1; (72060), 3, 1, 0; (72139), 3, 1, 0; (73509), 3, 1, 0; (74364), 3, 1, 0; (75007), 3, 1, 0; (75472), 3, 1, 0; (75962), 3, 1, 0; (76296), 6, 2, 1; (76338), 3, 1, 0; (77888), 3, 1, 0; (78275), 3, 1, 0; (78402), 3, 1, 0; (78984), 6, 2, 1; (79018), 3, 1, 0; (79807), 3, 1, 0; (79912), 6, 2, 1; (80158), 3, 1, 0; (81126), 3, 1, 0; (81331), 6, 2, 1; (82065), 3, 1, 0; (82069), 3, 1, 0; (82607), 3, 1, 0; (83044), 6, 2, 1; (85144), 6, 2, 1; (86570), 3, 1, 0; (87747), 6, 2, 1; (88038), 3, 1, 0; (88098), 3, 1, 0; (88455), 6, 2, 1; (88565), 3, 1, 0; (88861), 3, 1, 0; (89018), 6, 2, 1; (90237), 6, 2, 1; (90343), 3, 1, 0; (90822), 3, 1, 0; (90918), 3, 1, 0; (91333), 6, 2, 1; (91425), 3, 1, 0; (92502), 3, 1, 0; (93345), 3, 1, 0; (93642), 6, 2, 1; (93760), 6, 2, 28; (93794), 6, 2, 1; (94531), 3, 1, 0; (94635), 3, 1, 0; (95104), 6, 2, 1; (95521), 3, 1, 0; (96417), 3, 1, 0; (97471), 3, 1, 0; (97786), 6, 2, 1; (97824), 3, 1, 0; (98412), 3, 1, 0; (98453), 3, 1, 0; (98507), 3, 1, 0; (98622), 6, 2, 1; (99039), 3, 1, 0; (99909), 9, 3, 30; (100740), 6, 2, 1; (101069), 3, 1, 0; (101665), 3, 1, 0; (101761), 3, 1, 0; (101906), 3, 1, 0; (102616), 3, 1, 0; (103155), 6, 2, 1; (103222), 3, 1, 0; (103737), 3, 1, 0; (103963), 3, 1, 0; (104649), 3, 1, 0; (105003), 6, 2, 1; (106966), 3, 1, 0; (107748), 3, 1, 0; (109059), 3, 1, 0; (109075), 3, 1, 0; (109338), 6, 2, 1; (109374), 3, 1, 0; (109960), 6, 2, 1; (110004), 6, 2, 2; (110216), 3, 1, 0; (110230), 6, 2, 1; (110283), 3, 1, 0; (111031), 3, 1, 0; (111326), 3, 1, 0; (111860), 3, 1, 0; (112308), 3, 1, 0; (112676), 6, 2, 1; (113786), 3, 1, 0; (113813), 3, 1, 0; (113898), 6, 2, 1; (114522), 3, 1, 0; (114734), 3, 1, 0; (115414), 3, 1, 0; (115959), 3, 1, 0; (115965), 3, 1, 0; (116156), 3, 1, 0; (116586), 3, 1, 0; (116958), 6, 2, 1; (118797), 3, 1, 0; (119168), 6, 2, 1; (119793), 3, 1, 0; (120808), 3, 1, 0; (120914), 3, 1, 0; (123250), 6, 2, 1; (123536), 3, 1, 0; (125085), 6, 2, 1; (125626), 3, 1, 0; (125738), 6, 2, 1; (126292), 6, 2, 30; (126510), 3, 1, 0; (127498), 6, 2, 1; (127973), 3, 1, 0; (128748), 3, 1, 0; (129012), 3, 1, 0; (129764), 3, 1, 0; (130361), 3, 1, 0; (131772), 6, 2, 1; (132272), 3, 1, 0; (132981), 3, 1, 0; (133404), 3, 1, 0; (133816), 3, 1, 0; (133951), 3, 1, 0; (134118), 3, 1, 0; (134187), 6, 2, 1; (134797), 3, 1, 0; (135944), 6, 2, 1; (136264), 3, 1, 0; (138069), 3, 1, 0; (139529), 3, 1, 0; (139657), 6, 2, 2; (140986), 6, 2, 1; (141577), 3, 1, 0; (142463), 3, 1, 0; (142952), 3, 1, 0; (143156), 3, 1, 0; (145763), 3, 1, 0; (145859), 3, 1, 0; (147133), 3, 1, 0; (147863), 6, 2, 1; (148336), 3, 1, 0; (148570), 3, 1, 0; (148604), 3, 1, 0; (148857), 3, 1, 0; (149531), 6, 2, 1; (149899), 3, 1, 0; (150019), 3, 1, 0; (150512), 3, 1, 0; (152423), 3, 1, 0; (153327), 3, 1, 0; (154344), 3, 1, 0; (157048), 3, 1, 0; (157275), 3, 1, 0; (158676), 3, 1, 0; (159479), 3, 1, 0; (161122), 3, 1, 0; (162727), 3, 1, 0; (162981), 6, 2, 1; (164158), 3, 1, 0; (164199), 3, 1, 0; (164533), 6, 2, 1; (164968), 3, 1, 0; (165491), 6, 2, 1; (165824), 3, 1, 0; (166998), 6, 2, 1; (167043), 3, 1, 0; (167569), 3, 1, 0; (172482), 3, 1, 0; (175920), 3, 1, 0; (176845), 3, 1, 0; (177415), 6, 2, 1; (177562), 3, 1, 0; (180022), 3, 1, 0; (181064), 3, 1, 0; (186250), 6, 2, 1; (186569), 3, 1, 0; (186615), 3, 1, 0; (188485), 6, 2, 1; (188515), 3, 1, 0; (188710), 3, 1, 0; (190225), 3, 1, 0; (193127), 3, 1, 0; (195705), 3, 1, 0; (195857), 3, 1, 0; (197354), 6, 2, 2; (198646), 6, 2, 1; (198795), 6, 2, 2; (198820), 3, 1, 0; (199826), 3, 1, 0; (200033), 6, 2, 1; (202049), 3, 1, 0; (202499), 3, 1, 0; (202750), 3, 1, 0; (203914), 3, 1, 0; (204297), 6, 2, 1; (204378), 3, 1, 0; (205219), 3, 1, 0; (205286), 3, 1, 0; (205473), 3, 1, 0; (205747), 3, 1, 0; (207713), 3, 1, 0; (208192), 6, 2, 1; (208281), 3, 1, 0; (209643), 3, 1, 0; (210166), 6, 2, 1; (211675), 3, 1, 0; (215160), 3, 1, 0; (215650), 6, 2, 1; (216354), 3, 1, 0; (217758), 3, 1, 0; (219354), 3, 1, 0; (221729), 3, 1, 0; (222857), 6, 2, 1; (226814), 3, 1, 0; (228110), 3, 1, 0; (231014), 3, 1, 0; (231726), 3, 1, 0; (233579), 3, 1, 0; (234855), 3, 1, 0; (235049), 3, 1, 0; (235912), 3, 1, 0; (236649), 3, 1, 0; (238957), 3, 1, 0; (239348), 6, 2, 1; (241150), 6, 2, 1; (241220), 3, 1, 0; (241621), 3, 1, 0; (244849), 3, 1, 0; (245404), 6, 2, 1; (246168), 3, 1, 0; (248030), 3, 1, 0; (251752), 3, 1, 0; (252438), 3, 1, 0; (254750), 3, 1, 0; (254943), 6, 2, 1; (256158), 3, 1, 0; (256242), 3, 1, 0; (256756), 3, 1, 0; (258167), 3, 1, 0; (259423), 6, 2, 1; (263024), 6, 2, 1; (263096), 3, 1, 0; (265359), 3, 1, 0; (266760), 3, 1, 0; (268722), 3, 1, 0; (274162), 3, 1, 0; (277205), 6, 2, 1; (277583), 3, 1, 0; (278389), 3, 1, 0; (280459), 6, 2, 2; (288837), 6, 2, 1; (293541), 6, 2, 1; (293661), 3, 1, 0; (298864), 3, 1, 0; (298893), 3, 1, 0; (301155), 3, 1, 0; (302912), 6, 2, 1; (303461), 3, 1, 0; (304802), 6, 2, 1; (309293), 3, 1, 0; (310745), 3, 1, 0; (313911), 3, 1, 0; (315801), 3, 1, 0; (317094), 3, 1, 0; (317986), 3, 1, 0; (318713), 6, 2, 1; (327578), 3, 1, 0; (333795), 3, 1, 0; (334070), 3, 1, 0; (347890), 6, 2, 1; (351715), 3, 1, 0; (351747), 3, 1, 0; (354424), 3, 1, 0; (358476), 3, 1, 0; (358680), 3, 1, 0; (359938), 3, 1, 0; (360849), 3, 1, 0; (362535), 3, 1, 0; (363136), 3, 1, 0; (365777), 6, 2, 1; (366162), 3, 1, 0; (366175), 3, 1, 0; (369954), 3, 1, 0; (373683), 3, 1, 0; (396549), 3, 1, 0; (399449), 3, 1, 0; (402098), 3, 1, 0; (404365), 12, 4, 8; (407321), 3, 1, 0; (412856), 3, 1, 0; (413531), 3, 1, 0; (426848), 3, 1, 0; (436774), 3, 1, 0; (451408), 3, 1, 0; (454722), 3, 1, 0; (458830), 3, 1, 0; (458841), 3, 1, 0; (460172), 6, 2, 2; (486590), 3, 1, 0; (493936), 6, 2, 2; *[1767, 454, 7∗, 2018/05/10–2018/08/14]*

{51} 2008 RZ_{148}, 7, 1, 0; 2012 DG_{61}, 6, 2, 3; 2018 RY_5, 3, 1, 0; *[16, 3, 0∗, 2016/08/08–2018/09/13]*

{52} 2018 MR_8, 4, 1, 0; *[4, 1, 0∗, 2018/07/04]*

{54} 2004 PK_3, 12, 4, 4; 2009 PB_{15}, 3, 1, 0; 2014 KR_{98}, 6, 2, 2; 2014 OM_{241}, 6, 2, 3; 2018 KR_3 ∗, 3, 1, 0; 2018 KT_3 ∗, 3, 1, 0; 2018 PD ∗, 6, 2, 1; 2018 PU ∗, 6, 2, 1; 2018 PW_{10} ∗, 6, 2, 3; 2018 PY_{10} ∗, 8, 3, 3; 2018 PE_{16} ∗, 6, 2, 1; 2018 PF_{16} ∗, 6, 2, 1; 2018 PL_{28}, 2, 1, 0; 2018 QJ_4 ∗, 5, 2, 2; 2018 RS_9 ∗, 6, 2, 5; 2018 RT_9 ∗, 6, 2, 4; 2018 RY_{12}, 6, 2, 1; 2018 RZ_{12}, 6, 2, 1; 2018 RC_{13}, 6, 2, 4; 2018 RD_{13}, 3, 1, 0; 2018 RM_{14}, 6, 2, 2; (2373), 3, 1, 0; (2729), 2, 1, 0; (5673), 3, 1, 0; (7926), 3, 1, 0; (8110), 3, 1, 0; (9870), 6, 2, 1; (10180), 2, 1, 0; (11942), 3, 1, 0; (13471), 2, 1, 0; (14830), 3, 1, 0; (15915), 3, 1, 0; (18255), 3, 1, 0; (22518), 5, 2, 2; (23777), 3, 1, 0; (24747), 3, 1, 0; (26377), 2, 1, 0; (26649), 3, 1, 0; (27046), 3, 1, 0; (31360), 2, 1, 0; (31539), 3, 1, 0; (37197), 3, 1, 0; (46556), 2, 1, 0; (58231), 3, 1, 0; (58922), 3, 1, 0; (61912), 3, 1, 0; (64929), 3, 1, 0; (65574), 3, 1, 0; (79885), 3, 1, 0; (89030), 3, 1, 0; (103287), 3, 1, 0; (117173), 2, 1, 0; (119026), 3, 1, 0; (124045), 3, 1, 0; (125277), 3, 1, 0; (142209), 3, 1, 0; (333092), 3, 1, 0; (355410), 3, 1, 0; (357060), 2, 1, 0; (394805), 2, 1, 0; (484284), 3, 1, 0; *[233, 61, 11∗, 2018/05/19–2018/09/14]*

{57} (89670), 5, 1, 0; (101480), 6, 1, 0; *[11, 2, 0∗, 2018/08/14]*

{61} 2018 RB_{10} *, 10, 2, 1; (283729), 7, 2, 1; *[17, 2, 1*, 2018/07/09–2018/09/09]*

{62} 2006 WV_{201}, 3, 1, 0; 2008 UP_{72}, 3, 1, 0; 2009 UC_{23}, 3, 1, 0; (1078), 3, 1, 0; (130745), 3, 1, 0; (318733), 3, 1, 0; (379093), 3, 1, 0; *[21, 7, 0*, 2018/06/12–2018/09/12]*

{25} 2018 MR_8, 4, 1, 0; 2018 PC, 3, 1, 0; 2018 PU_7, 4, 1, 0; 2018 PM_{10}, 4, 1, 0; 2018 PK_{22}, 3, 1, 0; 2018 QA_1, 4, 1, 0; *[22, 6, 0*, 2018/07/03–2018/08/21]*

{30} 2015 FP_{118}, 3, 1, 0; 2018 KE_3, 11, 3, 9; 2018 MW_6, 8, 2, 11; 2018 OB, 3, 1, 0; 2018 OM, 5, 1, 0; 2018 PL_9, 6, 2, 1; 2018 PO_{23}, 7, 2, 1; 2018 QA_1, 10, 2, 6; 2018 RB, 9, 2, 1; 2018 RQ_1, 6, 2, 1; (2046), 3, 1, 0; (12456), 4, 1, 0; (15786), 3, 1, 0; (15962), 3, 1, 0; (23256), 4, 1, 0; (25250), 7, 1, 0; (29776), 3, 1, 0; (41498), 3, 1, 0; (44351), 3, 1, 0; (46137), 3, 1, 0; (47792), 4, 1, 0; (52882), 4, 1, 0; (61324), 6, 1, 0; (61417), 6, 1, 0; (71460), 6, 1, 0; (73540), 6, 1, 0; (83105), 3, 1, 0; (84966), 3, 1, 0; (88505), 3, 1, 0; (97567), 2, 1, 0; (119168), 4, 1, 0; (125568), 4, 1, 0; (127309), 4, 1, 0; (128837), 3, 1, 0; (132803), 3, 1, 0; (143165), 3, 1, 0; (150242), 2, 1, 0; (157941), 3, 1, 0; (173394), 6, 1, 0; (188528), 3, 1, 0; (197120), 3, 1, 0; (199277), 3, 1, 0; (209101), 3, 1, 0; (225653), 3, 1, 0; (231098), 3, 1, 0; (233955), 3, 1, 0; (253061), 3, 1, 0; (258295), 3, 1, 0; (263835), 3, 1, 0; (265905), 4, 1, 0; (280131), 3, 1, 0; (309978), 3, 1, 0; (312184), 3, 1, 0; (319369), 4, 1, 0; (320946), 3, 1, 0; (331431), 3, 1, 0; (409525), 3, 1, 0; (418629), 4, 1, 0; (422366), 3, 1, 0; (446727), 3, 1, 0; (450436), 3, 1, 0; (459486), 3, 1, 0; (496415), 3, 1, 0; *[254, 63, 0*, 2018/03/19–2018/09/09]*

{33} 2011 UT_{36}, 3, 1, 0; 2013 TE_{28}, 3, 1, 0; 2014 JM_{25}, 3, 1, 0; 2015 TG_{129}, 3, 1, 0; (8012), 1, 1, 0; (78319), 1, 1, 0; (116401), 3, 1, 0; (116420), 4, 1, 0; (203052), 3, 1, 0; (283528), 1, 1, 0; (351619), 1, 1, 0; (362133), 2, 1, 0; (412527), 1, 1, 0; (460439), 2, 1, 0; (492607), 3, 1, 0; *[34, 15, 0*, 2014/07/30–2018/08/06]*

Q63 Siding Spring-LCO A

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, S. Greenstreet, J. Chatelain, E. Gomez, A. Tedeschi
1.0-m f/8.0 Ritchey-Chrétien + CCD
Gaia-DR1, Gaia-DR2

2003 FY_6, 23, 2, 6; 2010 JO_{33}, 5, 1, 0; 2015 RZ_{82}, 7, 1, 0; 2018 NP_{15}, 5, 1, 0; 2018 PP_8, 4, 1, 0; 2018 PA_9, 4, 1, 0; 2018 PT_9, 3, 1, 0; 2018 PU_9, 4, 1, 0; 2018 PX_{19}, 12, 1, 0; 2018 PE_{20}, 3, 1, 0; 2018 PU_{20}, 6, 1, 0; 2018 RZ_5, 4, 1, 0; 2018 RN_7, 4, 1, 0; 2018 RQ_7, 5, 1, 0; (26644), 4, 1, 0; (42238), 4, 1, 0; (85941), 4, 1, 0; (107415), 3, 1, 0; (116563), 4, 1, 0; (236011), 4, 1, 0; (362601), 4, 1, 0; *[116, 21, 0*, 2018/03/30–2018/09/15]*

Q64 Siding Spring-LCO B

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers A. Tedeschi, T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
1.0-m f/8.0 Ritchey-Chrétien + CCD
Gaia-DR1

2002 TJ_{262}, 3, 1, 0; 2014 OR_{372}, 2, 1, 0; 2014 SW_{303}, 11, 1, 0; 2018 NP_{15} *, 12, 2, 25; 2018 PE_9, 3, 1, 0; 2018 PO_9, 3, 1, 0; 2018 PE_{10}, 5, 1, 0; 2018 PF_{10}, 4, 1, 0; 2018 PG_{18} *, 7, 1, 0; 2018 PH_{18} *, 11, 2, 2; 2018 PJ_{18} *, 9, 2, 2; 2018 PR_{20}, 3, 1, 0; (38136), 4, 1, 0; (63875), 4, 1, 0; (153338), 4, 1, 0; (163248), 4, 1, 0; (186563), 4, 1, 0; (207088), 4, 1, 0; (262090), 4, 1, 0; (276070), 4, 1, 0; (315046), 4, 1, 0; *[109, 21, 4*, 2018/07/13–2018/08/09]*

Q66 Siding Spring-Janess-G, JAXA

T. Yanagisawa, 7-44-1 Jindaijihigashi-machi, Chofu, Tokyo 182-8522, Japan [yanagisawa.toshifumi@jaxa.jp]
Observers T. Yanagisawa, H. Kurosaki, H. Onodera, K. Kamiya
0.25-m f/2.8 reflector + CCD
GSC-ACT

2018 PM_{10} *, 8, 2, 1; 2018 RR_4 *, 4, 1, 0; *[12, 2, 2*, 2018/08/09–2018/09/11]*

Q67 JBL Observatory, Bathurst

J. Oey, 138 Dunkeld Rd, Dunkeld, New South Wales 2795, Australia [julianoey@gmail.com]
Observers J. Oey, P. Camilleri
0.40-m f/8.4 reflector + CCD
UCAC-4

2011 GA_{62}, 12, 4, 6; 2018 NB, 2, 1, 0; (1696), 10, 3, 20; (3548), 4, 1, 0; (4272), 2, 1, 0; (4666), 13, 4, 12; (17700), 8, 4, 4; (31450), 12, 2, 1; (38504), 4, 1, 0; (47558), 10, 2, 1; (138847), 10, 2, 1; (194126), 3, 1, 0; *[90, 12, 0*, 2018/04/09–2018/08/07]*

Q68 Blue Mountains Observatory, Leura

J. Oey, 94 Rawson pde, Leura NSW 2780, Australia [julianoey@gmail.com]
Observers P. Camilleri, H. Williams, J. Oey
0.30-m f/3.0 reflector + CCD, 0.34-m f/5.9 Schmidt-Cassegrain + CCD
UCAC-4

2008 RG_{149}, 2, 1, 0; 2018 KR_2, 2, 1, 0; (821), 2, 1, 0; (1776), 2, 1, 0; (2067), 2, 1, 0; (2477), 2, 1, 0; (2928), 2, 1, 0; (3296), 2, 1, 0; (3462), 2, 1, 0; (3890), 2, 1, 0; (4539), 4, 2, 1; (4666), 2, 1, 0; (5059), 2, 1, 0; (5206), 2, 1, 0; (5774), 2, 1, 0; (6410), 4, 2, 3; (6734), 2, 1, 0; (7479), 2, 1, 0; (8126), 2, 1, 0; (8298), 2, 1, 0; (9837), 4, 2, 1; (10037), 2, 1, 0; (10141), 2, 1, 0; (11021), 2, 1, 0; (11055), 4, 2, 2; (12209), 1, 1, 0; (12670), 4, 2, 1; (12793), 4, 2, 1; (13482), 6, 3, 4; (13968), 2, 1, 0; (14022), 2, 1, 0; (14130), 2, 1, 0; (14834), 4, 2, 1; (15829), 2, 1, 0; (16979), 2, 1, 0; (17645), 6, 3, 2; (17700), 5, 2, 20; (21262), 2, 1, 0; (23896), 2, 1, 0; (24974), 8, 4, 4; (26647), 2, 1, 0; (27133), 4, 2, 1; (27654), 2, 1, 0; (28057), 2, 1, 0; (30215), 2, 1, 0; (30840), 2, 1, 0; (33807), 2, 1, 0; (34548), 2, 1, 0; (35245), 2, 1, 0; (44429), 2, 1, 0; (44556), 2, 1, 0; (45180), 2, 1, 0; (45690), 2, 1, 0; (48140), 2, 1, 0; (49910), 2, 1, 0; (50689), 2, 1, 0; (51666), 2, 1, 0; (51964), 2, 1, 0; (56856), 4, 2, 2; (57459), 2, 1, 0; (59744), 2, 1, 0; (59873), 8, 4, 4; (60436), 1, 1, 0; (61977), 2, 1, 0; (64720), 2, 1, 0; (67839), 2, 1, 0; (69082), 6, 3, 3; (73693), 4, 2, 2; (74249), 4, 2, 2; (74269), 2, 1, 0; (76194), 2, 1, 0; (86412), 2, 1, 0; (87482), 2, 1, 0; (88283), 2, 1, 0; (90265), 2, 1, 0; (95972), 2, 1, 0; (97821), 4, 2, 2; (98721), 2, 1, 0; (107762), 2, 1, 0; (109070), 2, 1, 0; (109168), 2, 1, 0; (117054), 4, 2, 3; (117202), 2, 1, 0; (119790), 2, 1, 0; (127919), 2, 1, 0; (128011), 2, 1, 0; (128781), 2, 1, 0; (128930), 2, 1, 0; (130207), 2, 1, 0; (152933), 2, 1, 0; (153055), 2, 1, 0; (154543), 2, 1, 0; (155854), 2, 1, 0; (157260), 2, 1, 0; (158224), 2, 1, 0; (164371), 2, 1, 0; (168306), 2, 1, 0; (184640), 2, 1, 0; (188188), 4, 2, 2; (188483), 2, 1, 0; (193050), 2, 1, 0; (193116), 2, 1, 0; (193761), 2, 1, 0; (203601), 2, 1, 0; (222303), 2, 1, 0; (231138), 8, 3, 2; (239618), 2, 1, 0; (244198), 4, 2, 2; (249560), 2, 1, 0; (250168), 2, 1, 0; (252026), 2, 1, 0; (256205), 2, 1, 0; (258095), 6, 3, 2; (258097), 2, 1, 0; (270001), 2, 1, 0; (277117), 1, 1, 0; (279827), 2, 1, 0; (414843), 1, 1, 0; *[299, 118, 0*, 2018/04/16–2018/09/14]*

R58 Beverly-Begg Observatory, Dunedin

P. D. Jaquiery, 31 Wright Street, Dunedin 9010, New Zealand [peter.jaquiery@ihug.co.nz]
0.36-m f/11 Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1

2018 NB, 2, 1, 0; 2018 NV, 2, 1, 0; 2018 NN_4, 4, 2, 2; 2018 PC, 3, 1, 0; *[11, 4, 0*, 2018/07/03–2018/08/05]*

T04 Haleakala-LCO OGG B #2

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, S. Greenstreet, E. Gomez, A. Tedeschi
0.4-m f/8 Schmidt-Cassegrain + CCD
Gaia-DR1

(1627), 7, 1, 0; *[7, 1, 0*, 2018/07/03]*

T05 ATLAS-HKO, Haleakala

A. Heinze, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [aheinze@hawaii.edu]
Observers L. Denneau, A. Heinze, H. Weiland, J. Tonry, H. Flewelling
Measurers L. Denneau, H. Flewelling, A. Heinze, B. Stalder, J. Tonry, A. Fitzsimmons, D. Young
0.5-m f/2.0 Schmidt + CCD
Gaia-DR1

1996 TO_{11}, 36, 5, 56; 1999 RV_2, 20, 4, 40; 1999 RB_{32}, 31, 5, 29; 1999 UP_{46}, 4, 1, 0; 1999 VA_{40}, 6, 1, 0; 2000 OA_{22}, 19, 4, 17; 2000 PF_4, 9, 2, 8; 2000 QP_{30}, 28, 5, 73; 2000 RS_{77}, 8, 2, 8; 2000 SB_1, 28, 7, 57; 2000 SY_9, 4, 1, 0; 2000 SR_{94}, 11, 2, 8; 2000 SO_{185}, 8, 2, 8; 2000 UC_{96}, 20, 4, 28; 2001 KF_{18}, 8, 2, 8; 2001 MA_5, 4, 1, 0; 2001 NH_{13}, 8, 2, 40; 2001 OM_{28}, 4, 1, 0; 2001 OO_{41}, 4, 1,

0; 2001 OK_{59}, 31, 6, 55; 2001 OK_{69}, 4, 1, 0; 2001 OZ_{82}, 4, 1, 0; 2001 PX_3, 4, 1, 0; 2001 PO_{10}, 4, 1, 0; 2001 PR_{15}, 4, 1, 0; 2001 PN_{16}, 4, 1, 0; 2001 PE_{43}, 4, 1, 0; 2001 PJ_{61}, 8, 2, 1; 2001 PH_{67}, 19, 4, 39; 2001 PU_{67}, 8, 1, 0; 2001 QJ_9, 32, 7, 28; 2001 QC_{45}, 8, 2, 12; 2001 QN_{50}, 21, 5, 41; 2001 QQ_{106}, 8, 2, 12; 2001 QW_{130}, 12, 3, 28; 2001 QA_{143}, 14, 3, 12; 2001 QU_{190}, 8, 2, 12; 2001 QP_{202}, 6, 1, 0; 2001 RQ_{17}, 16, 4, 17; 2001 RF_{20}, 4, 1, 0; 2001 RN_{57}, 8, 2, 1; 2001 RE_{59}, 10, 2, 16; 2001 RB_{105}, 5, 1, 0; 2001 RB_{127}, 4, 1, 0; 2001 SL_{87}, 10, 2, 16; 2001 ST_{97}, 10, 2, 8; 2001 SC_{160}, 37, 8, 84; 2001 SC_{170}, 16, 4, 11; 2001 SQ_{206}, 18, 4, 40; 2001 SQ_{217}, 4, 1, 0; 2001 ST_{242}, 4, 1, 0; 2001 SZ_{322}, 5, 1, 0; 2001 TR_5, 8, 2, 29; 2001 TS_{50}, 8, 2, 12; 2001 TX_{95}, 27, 5, 27; 2001 TM_{132}, 8, 2, 4; 2001 TG_{144}, 6, 1, 0; 2001 TW_{222}, 5, 1, 0; 2001 UG_7, 9, 2, 1; 2001 UO_{124}, 14, 3, 56; 2001 UW_{136}, 12, 3, 16; 2001 XC_{76}, 8, 2, 8; 2002 CY_9, 5, 1, 0; 2002 KT_{16}, 5, 1, 0; 2002 LV_6, 41, 11, 72; 2002 LM_{24}, 17, 3, 24; 2002 LC_{46}, 4, 1, 0; 2002 NL_{69}, 7, 1, 0; 2002 ND_{71}, 6, 1, 0; 2002 NK_{77}, 4, 1, 0; 2002 NN_{79}, 4, 1, 0; 2002 OS_4, 20, 4, 65; 2002 OB_{20}, 16, 4, 48; 2002 PW, 15, 3, 44; 2002 PJ_5, 4, 1, 0; 2002 PZ_{10}, 9, 2, 32; 2002 PU_{31}, 4, 1, 0; 2002 PH_{80}, 13, 3, 8; 2002 PT_{98}, 12, 3, 8; 2002 PD_{141}, 4, 1, 0; 2002 PZ_{190}, 4, 1, 0; 2002 PB_{198}, 8, 2, 4; 2002 PF_{202}, 4, 1, 0; 2002 PV_{202}, 8, 2, 1; 2002 QU_6, 8, 2, 40; 2002 QY_{15}, 8, 2, 12; 2002 QO_{44}, 4, 1, 0; 2002 QK_{101}, 14, 3, 76; 2002 QJ_{126}, 8, 2, 52; 2002 QR_{142}, 12, 3, 9; 2002 QA_{149}, 12, 2, 8; 2002 QW_{150}, 12, 2, 8; 2002 RO_2, 4, 1, 0; 2002 RQ_{77}, 4, 1, 0; 2002 RK_{219}, 5, 1, 0; 2002 RU_{224}, 4, 1, 0; 2002 RB_{281}, 4, 1, 0; 2002 RY_{285}, 12, 3, 16; 2002 SE_{16}, 18, 3, 12; 2002 TE_{104}, 8, 2, 15; 2002 TU_{167}, 12, 3, 28; 2002 TP_{171}, 16, 3, 4; 2002 TF_{221}, 4, 1, 0; 2002 TN_{379}, 4, 1, 0; 2002 UC_{14}, 10, 2, 48; 2002 VV_{72}, 4, 1, 0; 2002 VC_{149}, 4, 1, 0; 2002 WH_{32}, 4, 1, 0; 2003 EA_{50}, 6, 1, 0; 2003 OY_2, 4, 1, 0; 2003 QT_{79}, 4, 1, 0; 2003 QJ_{90}, 20, 5, 40; 2003 RC_2, 11, 2, 7; 2003 SA_{169}, 8, 2, 8; 2003 SN_{434}, 20, 5, 68; 2003 ST_{435}, 4, 1, 0; 2003 UQ_{140}, 4, 1, 0; 2003 UB_{278}, 4, 1, 0; 2003 UK_{316}, 4, 1, 0; 2003 WW_{195}, 8, 2, 16; 2003 XK_{21}, 8, 2, 60; 2004 LH, 19, 4, 13; 2004 LK_{22}, 4, 1, 0; 2004 NZ_{19}, 8, 2, 16; 2004 PL_1, 10, 2, 1; 2004 PK_3, 8, 2, 12; 2004 PJ_{41}, 8, 2, 48; 2004 PF_{70}, 5, 1, 0; 2004 PP_{111}, 8, 2, 8; 2004 QB_{17}, 19, 4, 12; 2004 RV_9, 8, 2, 8; 2004 RO_{24}, 8, 2, 1; 2004 RT_{24}, 8, 2, 40; 2004 RA_{65}, 4, 1, 0; 2004 RT_{109}, 8, 2, 7; 2004 RX_{110}, 4, 1, 0; 2004 RK_{112}, 4, 1, 0; 2004 RC_{162}, 4, 1, 0; 2004 RT_{186}, 5, 1, 0; 2004 RB_{248}, 4, 1, 0; 2004 RW_{327}, 24, 6, 31; 2004 TL_{126}, 4, 1, 0; 2004 TP_{141}, 4, 1, 0; 2004 VZ_{119}, 4, 1, 0; 2004 XL_{104}, 4, 1, 0; 2005 EJ_{33}, 4, 1, 0; 2005 GU_{39}, 5, 1, 0; 2005 JA_{81}, 4, 1, 0; 2005 KQ_7, 12, 2, 27; 2005 KX_{14}, 4, 1, 0; 2005 LU_{45}, 5, 1, 0; 2005 MF_5, 16, 3, 4; 2005 MB_{54}, 14, 3, 55; 2005 NZ_{34}, 4, 1, 0; 2005 NF_{42}, 5, 1, 0; 2005 NL_{43}, 20, 4, 56; 2005 NM_{102}, 24, 6, 28; 2005 OT_{28}, 4, 1, 0; 2005 PQ_5, 4, 1, 0; 2005 QG_1, 17, 3, 15; 2005 QF_3, 16, 4, 16; 2005 QO_4, 8, 2, 8; 2005 QR_6, 8, 2, 8; 2005 QJ_{15}, 13, 3, 28; 2005 QE_{19}, 4, 1, 0; 2005 QS_{25}, 4, 1, 0; 2005 QV_{36}, 5, 1, 0; 2005 QP_{37}, 5, 1, 0; 2005 QF_{53}, 4, 1, 0; 2005 QA_{66}, 23, 5, 57; 2005 QQ_{84}, 10, 2, 4; 2005 QW_{97}, 11, 2, 8; 2005 QA_{166}, 4, 1, 0; 2005 QG_{169}, 15, 3, 28; 2005 QA_{175}, 24, 5, 56; 2005 RB, 21, 5, 27; 2005 RP_5, 4, 1, 0; 2005 RM_{25}, 4, 1, 0; 2005 SA, 4, 1, 0; 2005 SN_{20}, 4, 1, 0; 2005 SX_{111}, 5, 1, 0; 2005 SQ_{155}, 4, 1, 0; 2005 SF_{250}, 4, 1, 0; 2005 TH_7, 14, 3, 12; 2005 TV_{12}, 8, 1, 0; 2005 TO_{28}, 4, 1, 0; 2005 TQ_{43}, 8, 2, 16; 2005 TX_{43}, 8, 2, 24; 2005 TE_{66}, 8, 2, 16; 2005 TJ_{76}, 13, 3, 52; 2005 TT_{183}, 20, 4, 68; 2005 UY_5, 15, 4, 94; 2005 UT_6, 29, 6, 28; 2005 UR_{42}, 4, 1, 0; 2005 UT_{74}, 10, 2, 8; 2005 UR_{313}, 15, 2, 8; 2005 US_{393}, 12, 2, 8; 2005 UJ_{456}, 9, 2, 8; 2005 UT_{486}, 13, 2, 8; 2005 VX_{16}, 7, 1, 0; 2005 WU, 8, 1, 0; 2005 WZ_{30}, 8, 2, 8; 2005 WF_{57}, 9, 2, 28; 2005 WO_{186}, 4, 1, 0; 2006 BR_7, 4, 1, 0; 2006 JH_{82}, 4, 1, 0; 2006 KN_{100}, 4, 1, 0; 2006 QJ_{144}, 4, 1, 0; 2006 SU_{424}, 4, 1, 0; 2006 TU_{79}, 4, 1, 0; 2006 TD_{96}, 4, 1, 0; 2006 TS_{132}, 4, 1, 0; 2006 UP_{74}, 5, 1, 0; 2006 VR_{103}, 12, 3, 28; 2006 XX_{31}, 12, 3, 16; 2006 YO, 4, 1, 0; 2006 YS_{13}, 10, 3, 28; 2007 CZ_{56}, 20, 5, 28; 2007 GR_{51}, 14, 3, 28; 2007 JR_{39}, 4, 1, 0; 2007 JV_{46}, 4, 1, 0; 2007 OH_2, 13, 3, 32; 2007 OQ_5, 8, 2, 7; 2007 PY_{15}, 8, 2, 1; 2007 PG_{17}, 4, 1, 0; 2007 QC_{17}, 7, 1, 0; 2007 RK_3, 8, 2, 7; 2007 RM_{13}, 4, 1, 0; 2007 RK_{15}, 4, 1, 0; 2007 RX_{19}, 8, 2, 8; 2007 RE_{33}, 16, 4, 12; 2007 RF_{49}, 4, 1, 0; 2007 RY_{49}, 4, 1, 0; 2007 RK_{135}, 4, 1, 0; 2007 RX_{139}, 4, 1, 0; 2007 RF_{283}, 8, 2, 7; 2007 RA_{312}, 4, 1, 0; 2007 RF_{313}, 4, 1, 0; 2007 RO_{315}, 4, 1, 0; 2007 RS_{321}, 4, 1, 0; 2007 RE_{329}, 8, 2, 28; 2007 RN_{329}, 4, 1, 0; 2007 RF_{330}, 4, 1, 0; 2007 ST_3, 4, 1, 0; 2007 TR_4, 6, 1, 0; 2007 TL_6, 4, 1, 0; 2007 TZ_{10}, 8, 2, 28; 2007 TR_{19}, 23, 5, 28; 2007 TV_{149}, 8, 2, 16; 2007 TM_{288}, 4, 1, 0; 2007 TB_{413}, 12, 3, 32; 2007 UJ_7, 4, 1, 0; 2007 UH_{11}, 7, 1, 0; 2007 UL_{77}, 7, 1, 0; 2007 VF_{32}, 4, 1, 0; 2007 VO_{189}, 24, 6, 81; 2007 VE_{320}, 8, 2, 35; 2008 DE_8, 4, 1, 0; 2008 DL_{90}, 8, 2, 1; 2008 JK_4, 8, 2, 20; 2008 KS_{32}, 6, 1, 0; 2008 LT_{12}, 4, 1, 0; 2008 LX_{16}, 11, 2, 4; 2008 OL_{22}, 25, 6, 92; 2008 PW_4, 4, 1, 0; 2008 QZ_9, 24, 4, 54; 2008 RT_{26}, 16, 4, 16; 2008 RV_{148}, 15, 3, 12; 2008 RG_{149}, 4, 1, 0; 2008 SY_{189}, 4, 1, 0; 2008 TL_{65}, 8, 2, 16; 2008 TC_{112}, 11, 3, 16; 2008 TH_{115}, 4, 1, 0; 2008 UU_{71}, 4, 1, 0; 2008 UF_{159}, 4, 1, 0; 2008 WB_{71}, 4, 1, 0; 2008 YB_{25}, 4, 1, 0; 2008 YE_{165}, 4, 1, 0; 2009 FU_{26}, 8, 2, 8; 2009 HQ_{110}, 7, 1, 0; 2009 MW_6, 22, 5, 76; 2009 OA, 23, 5, 12; 2009 OG, 4, 1, 0; 2009 OO_5, 8, 2, 8; 2009 OQ_{14}, 24, 6, 56; 2009 OC_{26}, 12, 3, 8; 2009 PA_5, 9, 2, 8; 2009 PN_{10}, 4, 1, 0; 2009 PC_{14}, 4, 1, 0; 2009 PB_{15}, 4, 1, 0; 2009 QJ_9, 12, 3, 51; 2009 QC_{19}, 11, 2, 8; 2009 RR_7, 26, 6, 56; 2009 RO_{47}, 4, 1, 0; 2009 RE_{75}, 4, 1, 0; 2009 SX_1, 17, 4, 12; 2009 SC_{12}, 9, 2, 8; 2009 SJ_{21}, 8, 2, 16; 2009 SS_{36}, 4, 1, 0; 2009 SK_{104}, 28, 6, 33; 2009 SQ_{166}, 7, 1, 0; 2009 SC_{240}, 4, 1, 0; 2009 SO_{288}, 4, 1, 0; 2009 SS_{330}, 5, 1, 0; 2009 TM_{20}, 4, 1, 0; 2009 UX_{93}, 10, 2, 8; 2009 UQ_{126}, 4, 1, 0; 2009 VJ_{79}, 4, 1, 0; 2009 WN_{78}, 10, 2, 4; 2010 AK, 5, 1, 0; 2010 BX_{31}, 16, 4, 16; 2010 EJ_{126}, 4, 1, 0; 2010 GZ_{176}, 6, 1, 0; 2010 JB_{135}, 4, 1, 0; 2010 LA_{109}, 12, 3, 16; 2010 NP_{118}, 7, 1, 0; 2010 PD, 8, 2, 8; 2010 PF, 8, 2, 16; 2010 PM_{66}, 4, 1, 0; 2010 RO_{82}, 8, 2, 8; 2010 RS_{174}, 4, 1, 0; 2010 SQ_6, 12, 3, 72; 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2011 SV_8, 4, 1, 0; 2011 SN_{24}, 4, 1, 0; 2011 SN_{31}, 4, 1, 0; 2011 SH_{56}, 5, 1, 0; 2011 SJ_{56}, 4, 1, 0; 2011 SV_{83}, 4, 1, 0; 2011 SB_{88}, 4, 1, 0; 2011 SW_{111}, 4, 1, 0; 2011 SX_{114}, 6, 1, 0; 2011 SF_{118}, 4, 1, 0; 2011 SS_{129}, 29, 3, 2; 2011 SY_{157}, 12, 3, 31; 2011 SO_{173}, 7, 1, 0; 2011 SF_{174}, 11, 2, 40; 2011 SS_{218}, 4, 1, 0; 2011 TE_9, 5, 1, 0; 2011 UA, 30, 6, 34; 2011 US_{19}, 4, 1, 0; 2011 UG_{26}, 12, 2, 4; 2011 UH_{52}, 4, 1, 0; 2011 UZ_{74}, 11, 2, 1; 2011 UD_{79}, 8, 2, 3; 2011 UX_{83}, 4, 1, 0; 2011 UH_{89}, 4, 1, 0; 2011 UO_{138}, 12, 3, 16; 2011 UN_{151}, 6, 1, 0; 2011 UZ_{161}, 4, 1, 0; 2011 UM_{245}, 8, 2, 7; 2011 UN_{265}, 4, 1, 0; 2011 UV_{334}, 8, 2, 12; 2011 VR_{12}, 22, 5, 28; 2011 VX_{17}, 8, 2, 8; 2011 WG_{17}, 4, 1, 0; 2011 WK_{73}, 4, 1, 0; 2011 WQ_{73}, 4, 1, 0; 2011 YW_{28}, 8, 2, 13; 2012 BQ_{14}, 8, 2, 12; 2012 BV_{26}, 4, 1, 0; 2012 BD_{86}, 4, 1, 0; 2012 BX_{115}, 4, 1, 0; 2012 CJ_{57}, 5, 1, 0; 2012 FJ_{52}, 5, 1, 0; 2012 GH_{12}, 6, 1, 0; 2012 GF_{20}, 4, 1, 0; 2012 GE_{23}, 6, 1, 0; 2012 HZ_{46}, 8, 2, 26; 2012 HE_{84}, 4, 1, 0; 2012 JH_1, 5, 1, 0; 2012 KU_7, 4, 1, 0; 2012 KS_{46}, 5, 1, 0; 2012 LH_{12}, 4, 1, 0; 2012 MT_{15}, 12, 3, 11; 2012 OD_1, 14, 3, 16; 2012 PG_6, 4, 1, 0; 2012 PU_{17}, 10, 2, 8; 2012 PJ_{22}, 5, 1, 0; 2012 RO_6, 4, 1, 0; 2012 RQ_{44}, 8, 2, 12; 2012 TW_{14}, 4, 1, 0; 2012 TY_{78}, 41, 10, 84; 2012 TH_{296}, 8, 2, 8; 2012 UV_{27}, 20, 5, 98; 2012 VQ_{84}, 20, 4, 16; 2012 VV_{86}, 15, 3, 16; 2012 WD_{16}, 5, 1, 0; 2012 XM_{67}, 4, 1, 0; 2012 XP_{159}, 4, 1, 0; 2012 YX, 12, 3, 32; 2013 AR_{91}, 8, 2, 16; 2013 AD_{105}, 4, 1, 0; 2013 AR_{188}, 5, 1, 0; 2013 CT_{12}, 5, 1, 0; 2013 CZ_{63}, 4, 1, 0; 2013 CG_{210}, 8, 1, 0; 2013 EP_{41}, 20, 5, 27; 2013 ET_{85}, 4, 1, 0; 2013 EV_{110}, 5, 1, 0; 2013 GT_{78}, 19, 5, 28; 2013 GJ_{83}, 20, 4, 76; 2013 GC_{85}, 4, 1, 0; 2013 GH_{86}, 4, 1, 0; 2013 GY_{101}, 4, 1, 0; 2013 GN_{105}, 4, 1, 0; 2013 HO_{15}, 4, 1, 0; 2013 HW_{82}, 24, 5, 12; 2013 JC_2, 4, 1, 0; 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T08 ATLAS-MLO, Mauna Loa

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Observers L. Denneau, A. Heinze, H. Weiland, J. Tonry, H. Flewelling
Measurers L. Denneau, H. Flewelling, A. Heinze, B. Stalder, J. Tonry, A. Fitzsimmons, D. Young, M. Micheli
0.5-m $f/2.0$ Schmidt + CCD
Gaia-DR1, Gaia-DR2

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T12 Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu]

Observers D. Hung, D. Fohring, D. J. Tholen, Z. Claytor, Y. Ramanjooloo, B. Boe

2.24-m $f/10.1$ reflector + CCD

Gaia-DR2

1998 SV_{173}, 2, 1, 0; 1999 FN_{19}, 6, 3, 54; 1999 LK_{1}, 5, 2, 26; 2002 RL_{263}, 3, 1, 0; 2003 TO_{9}, 1, 1, 0; 2005 QQ_{87}, 3, 1, 0; 2006 TD_{81}, 3, 1, 0; 2008 DJ, 4, 1, 0; 2008 TY_{3}, 2, 1, 0; 2009 TK, 3, 1, 0; 2010 JF_{87}, 2, 1, 0; 2010 MQ_{1}, 2, 1, 0; 2010 WZ_{8}, 1, 1, 0; 2011 DS_{9}, 4, 2, 28; 2013 BC_{18}, 2, 2, 2; 2014 CS, 5, 3, 22; 2014 JH_{43}, 4, 1, 0; 2014 ME_{18}, 3, 2, 5; 2014 YR_{43}, 5, 2, 1; 2015 AF_{35}, 2, 1, 0; 2015 AA_{91}, 2, 1, 0; 2015 BS_{4}, 1, 1, 0; 2015 BU_{565}, 28, 1, 0; 2015 DR_{215}, 1, 1, 0; 2015 KH_{157}, 7, 2, 2; 2015 MO_{130}, 6, 2, 6; 2015 MQ_{130}, 4, 2, 22; 2015 QO_{3}, 5, 5, 33; 2015 TK, 2, 2, 21; 2015 TK_{178}, 3, 2, 5; 2015 WG_{9}, 1, 1, 0; 2016 BD_{15}, 2, 1, 0; 2016 CC_{194}, 13, 4, 34; 2016 GM_{206}, 3, 2, 1; 2016 RC_{20}, 5, 3, 6; 2016 UA, 9, 3, 10; 2016 UJ_{31}, 3, 2, 4; 2016 WG_{7}, 2, 1, 0; 2016 WT_{7}, 2, 1, 0;

2016 YV_8, 6, 3, 14; 2017 ED_4, 8, 3, 4; 2017 ER_{22}, 2, 2, 4; 2017 FR, 2, 1, 0; 2017 GM_6, 1, 1, 0; 2017 GM_7, 2, 1, 0; 2017 KB_3, 8, 4, 4; 2017 OM_1, 4, 1, 0; 2017 OF_{69}, 2, 1, 0; 2017 QG_{33}, 6, 3, 4; 2017 QY_{34}, 1, 1, 0; 2017 UY_{42}, 4, 2, 3; 2017 WL_1, 4, 2, 8; 2017 WG_2, 4, 2, 6; 2017 XJ_{61}, 3, 2, 1; 2017 XR_{61}, 6, 3, 24; 2017 YW_5, 4, 2, 16; 2018 BL_3, 3, 1, 0; 2018 CZ_2, 2, 1, 0; 2018 CC_{14}, 3, 2, 1; 2018 CK_{14}, 3, 1, 0; 2018 DH_1, 1, 1, 0; 2018 ED_4, 1, 1, 0; 2018 FV_3, 3, 1, 0; 2018 FO_5, 2, 1, 0; 2018 GA, 4, 1, 0; 2018 GJ_1, 2, 1, 0; 2018 HQ_1, 5, 1, 0; 2018 HF_2, 2, 1, 0; 2018 JE, 2, 1, 0; 2018 JM, 1, 1, 0; 2018 JG_1, 11, 6, 59; 2018 JK_3, 2, 1, 0; 2018 KU, 3, 1, 0; 2018 KV, 2, 1, 0; 2018 KB_1, 2, 1, 0; 2018 KG_1, 5, 1, 0; 2018 KP_1, 4, 2, 30; 2018 KQ_1, 2, 1, 0; 2018 KV_1, 3, 2, 3; 2018 KC_2, 2, 1, 0; 2018 KX_2, 1, 1, 0; 2018 LM, 6, 4, 12; 2018 LB_1, 11, 4, 36; 2018 LD_1, 3, 1, 0; 2018 LE_1, 6, 3, 8; 2018 LM_2, 3, 1, 0; 2018 LR_2, 16, 3, 2; 2018 LU_2, 2, 1, 0; 2018 LV_2, 2, 1, 0; 2018 LE_3, 4, 1, 0; 2018 LF_3, 2, 1, 0; 2018 LR_3, 6, 3, 12; 2018 LS_3, 5, 1, 0; 2018 LE_4, 3, 1, 0; 2018 LH_4, 2, 1, 0; 2018 LM_4, 5, 2, 50; 2018 LG_5, 2, 1, 0; 2018 LJ_5, 1, 1, 0; 2018 LL_5, 2, 1, 0; 2018 LM_5, 2, 1, 0; 2018 LS_5, 2, 1, 0; 2018 LV_5, 8, 3, 9; 2018 LO_6, 3, 2, 22; 2018 LR_6, 3, 1, 0; 2018 LZ_{13}, 6, 3, 51; 2018 LS_{15}, 2, 1, 0; 2018 LB_{16}, 2, 1, 0; 2018 LD_{16}, 1, 1, 0; 2018 MX_4, 5, 2, 3; 2018 MC_5, 13, 6, 51; 2018 ME_5, 4, 2, 25; 2018 MQ_5, 8, 3, 23; 2018 MR_5, 2, 1, 0; 2018 MW_6, 12, 2, 44; 2018 MC_7, 13, 6, 57; 2018 MD_7, 6, 3, 24; 2018 MJ_7, 3, 1, 0; 2018 MJ_8, 1, 1, 0; 2018 ML_8, 6, 3, 27; 2018 MN_8, 1, 1, 0; 2018 NE, 2, 1, 0; 2018 NJ, 3, 3, 3; 2018 NL, 13, 7, 56; 2018 NM, 2, 1, 0; 2018 NS, 7, 3, 29; 2018 NW, 2, 1, 0; 2018 NY, 3, 1, 0; 2018 NL_1, 2, 1, 0; 2018 NT_1, 7, 3, 7; 2018 NU_1, 3, 2, 1; 2018 NX_1, 4, 2, 1; 2018 NE_2, 2, 1, 0; 2018 NH_2, 2, 1, 0; 2018 NN_2, 2, 1, 0; 2018 NR_3, 2, 1, 0; 2018 NM_4, 5, 1, 0; 2018 NY_{14}, 2, 1, 0; 2018 OK, 2, 1, 0; 2018 OM, 2, 1, 0; 2018 OA_1, 2, 1, 0; 2018 OD_1, 2, 1, 0; 2018 PO_2, 3, 1, 0; 2018 PR_7, 8, 3, 4; 2018 PY_7, 9, 4, 30; 2018 PZ_7, 2, 1, 0; 2018 PF_8, 4, 2, 3; 2018 PD_9, 1, 1, 0; 2018 PG_9, 2, 1, 0; 2018 PN_{10}, 3, 1, 0; 2018 PP_{10}, 1, 1, 0; 2018 PQ_{10}, 1, 1, 0; 2018 PU_{10}, 3, 1, 0; 2018 PA_{20}, 3, 1, 0; 2018 PB_{20}, 1, 1, 0; 2018 PJ_{20}, 3, 1, 0; 2018 PZ_{21}, 1, 1, 0; 2018 PF_{22}, 2, 1, 0; 2018 QS, 9, 4, 9; 2018 QT, 2, 1, 0; 2018 RC, 11, 3, 2; 2018 RM, 3, 1, 0; 2018 RN, 2, 1, 0; 2018 RP, 2, 1, 0; 2018 RP_1, 2, 1, 0; 2018 RQ_1, 6, 2, 6; 2018 RR_1, 4, 2, 6; 2018 RY_1, 6, 2, 6; 2018 RB_2, 6, 2, 6; 2018 RH_3, 2, 1, 0; 2018 RJ_3, 2, 1, 0; 2018 RT_3, 2, 1, 0; 2018 RY_3, 2, 1, 0; 2018 RQ_4, 3, 1, 0; 2018 RF_5, 2, 1, 0; 2018 RP_5, 2, 1, 0; (17220), 2, 1, 0; (41215), 2, 1, 0; (45546), 3, 1, 0; (49489), 3, 1, 0; (64627), 4, 1, 0; (65996), 4, 1, 0; (70390), 2, 1, 0; (92577), 2, 1, 0; (187185), 4, 1, 0; (206813), 15, 1, 0; (207041), 2, 1, 0; (232321), 2, 1, 0; (244246), 2, 1, 0; (253062), 2, 1, 0; (257296), 4, 1, 0; (265482), 1, 1, 0; (287043), 2, 1, 0; (317579), 2, 1, 0; (328956), 2, 1, 0; (337252), 4, 2, 35; (349249), 4, 1, 0; (361332), 1, 1, 0; (363027), 4, 2, 39; (382358), 2, 1, 0; (385945), 2, 1, 0; (388156), 2, 1, 0; (389648), 2, 1, 0; (399292), 2, 1, 0; (400212), 2, 1, 0; (425572), 2, 1, 0; (426088), 2, 1, 0; (446924), 7, 3, 36; (469737), 4, 1, 0; (478784), 1, 1, 0; (482639), 3, 1, 0; (492637), 2, 1, 0; (495829), 8, 3, 49; (498426), 2, 1, 0; *[785, 213, 0∗, 2014/12/19–2018/09/15]*

T14 Mauna Kea-UH/Tholen NEO Follow-Up (CFHT)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu]
Observers L. Wells, D. Woodworth, C. Crowder
Measurer D. J. Tholen
3.6-m $f/4.1$ reflector + MegaCam
Gaia-DR2

2003 TO_9, 3, 1, 0; 2007 BU_{38}, 4, 1, 0; 2008 DJ, 2, 1, 0; 2010 TO_{195}, 3, 1, 0; 2010 WZ_8, 3, 1, 0; 2013 VY_{15}, 2, 1, 0; 2014 CY_4, 5, 2, 2; 2014 PW_{59}, 21, 5, 65; 2015 WG_9, 3, 1, 0; 2016 BD_{15}, 3, 1, 0; 2017 KZ_4, 8, 2, 3; 2017 OM_1, 3, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 RM_{104} ∗, 3, 1, 0; 2017 SC_{132} ∗, 3, 1, 0; 2018 CZ_2, 3, 1, 0; 2018 GM, 3, 1, 0; (16286), 6, 2, 1; (39876), 7, 3, 2; (117656), 2, 1, 0; (130253), 3, 1, 0; (133137), 6, 2, 1; (185233), 3, 1, 0; (221144), 2, 1, 0; (268647), 2, 1, 0; (286642), 3, 2, 2; (308219), 3, 1, 0; (455145), 2, 1, 0; (459757), 4, 1, 0; (466863), 4, 1, 0; (482639), 6, 2, 7; *[128, 31, 2∗, 2017/08/28–2018/09/01]*

U63 Burnt Tree Hill Observatory, Cle Elum

B. Van Deventer, 3929 205th PL SW, Lynnwood WA 98036, U.S.A. [bruce.vandeventer@gmail.com]
0.4-m $f/10$ Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4

2001 SC_{170}, 6, 1, 0; 2005 RB, 4, 1, 0; 2013 WM_{90}, 4, 1, 0; 2018 EJ_4, 11, 1, 0; 2018 LQ_2, 5, 1, 0; 2018 NH, 6, 1, 0; 2018 NP, 5, 1, 0; 2018 NT, 3, 1, 0; 2018 ND_2, 12, 2, 4; 2018 NK_2, 5, 1, 0; 2018 NK_3, 7, 1, 0; 2018 NU_3, 6, 1, 0; 2018 PW_{19}, 6, 1, 0; 2018 RP_8, 4, 1, 0; (14608), 6, 1, 0; (29776), 5, 1, 0; (41498), 6, 1, 0; (68347), 3, 1, 0; (85989), 4, 1, 0; (88764), 9, 1, 0; (119103), 4, 1, 0; (125541), 6, 1, 0; (144332), 14, 2, 14; (199940), 6, 1, 0; (289685), 4, 1, 0; (443082), 5, 1, 0; *[156, 26, 0∗, 2018/03/20–2018/09/17]*

U68 JPL SynTrack Robotic Telescope, Auberry

M. Shao, 4800 Oak Grove Drive, Pasadena, CA 91109, U.S.A. [michael.shao@jpl.nasa.gov]
Observers N. Saini, C. Zhai, R. Trahan, M. Shao
0.28-m $f/2.2$ Schmidt + CCD
Gaia-DR1

2018 OL, 4, 2, 1; (18), 6, 2, 2; (22), 5, 2, 2; (45), 5, 2, 2; (187), 5, 2, 2; (212359), 6, 2, 2; *[31, 6, 0∗, 2018/04/18–2018/07/20]*

U69 iTelescope SRO Observatory, Auberry

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (5)
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (9)
M. Suzuki, 3-15-25-1301 Motoimaizumi, Utsunomiya, Tochigi 321-0954, Japan [mtnsuzuki@nifty.com] (11)
G. Baj, no details supplied (27)
W. Romanishin, 1933 Whispering Pines Cir, Norman, OK 73072, U.S.A. [wromanishin@ou.ed] (28)
Observers G. van Buitenen, H. Sato, M. Mattiazzo, M. Du, M. Khan, D. Torrejon, A. Zhu, J. Brettle, A. Caosun, A. Perea, T. Tan, I. Chung-Halpern, N. Ma, B. Wang, D. Zhu, S. Gorbaty, M. Jouve, F. Muhammad, S. Patil, B. Lütkenhöner, S. M. Tilley, M. Suzuki, W. Romanishin
0.61-m $f/6.5$ astrograph + CCD
UCAC-4, NOMAD, Gaia-DR2, Gaia-DR1, PPMXL

{11} 2018 RC, 3, 1, 0; *[3, 1, 0∗, 2018/09/04]*

{5} 2015 MM_{84}, 2, 1, 0; 2018 BZ_7, 2, 1, 0; 2018 MP_8, 2, 1, 0; (50439), 2, 1, 0; (52546), 2, 1, 0; (57743), 2, 1, 0; (65611), 2, 1, 0; (98941), 3, 1, 0; (137511), 2, 1, 0; (180829), 2, 1, 0; (191569), 3, 1, 0; (274785), 2, 1, 0; (334036), 2, 1, 0; (395520), 2, 1, 0; (511131), 3, 1, 0; (516381), 2, 1, 0; *[35, 16, 0∗, 2018/01/12–2018/06/19]*

{9} 2018 QG_1, 8, 2, 2; 2018 RQ_1, 3, 1, 0; *[11, 2, 0∗, 2018/08/23–2018/09/10]*

{27} (309525), 3, 1, 0; *[3, 1, 0∗, 2017/03/14]*

{28} 2017 QF_{33}, 4, 2, 1; 2017 RG_{16}, 2, 1, 0; *[6, 2, 0∗, 2018/09/04–2018/09/10]*

U78 Cedar Glen Observatory

L. DuBois, P.O. Box 537, Cedar Glen, CA 92321, U.S.A. [admin@thecgo.com]
PPMXL
PPMXL

(118382), 2, 1, 0; (212175), 3, 1, 0; *[5, 2, 0∗, 2018/09/16]*

U82 CS3-Palmer Divide Station, Landers

B. D. Warner, 446 Sycamore Ave., Eaton, CO, U.S.A. [brian@minorplanetobserver.com]
0.35-m $f/9.1$ Schmidt-Cassegrain + CCD
UCAC-4

2001 QA_{143}, 3, 1, 0; *[3, 1, 0∗, 2018/09/14]*

V03 Big Water

D. Rankin, P. O. Box 410313, Big Water, Utah, U.S.A. [david@rankinstudio.com]
0.30-m reflector + CCD
Gaia-DR1, Gaia-DR2, PPMXL

1998 SD_9, 4, 1, 0; 2008 BX_{54}, 3, 1, 0; 2010 LK, 3, 1, 0; 2013 TB_3, 4, 1, 0; 2014 RJ_{12}, 2, 1, 0; 2017 DD_{34}, 2, 1, 0; 2017 SX_{128} ∗, 4, 1, 0; 2018 QT_1, 3, 1, 0; 2018 RA, 6, 1, 0; 2018 RB, 3, 1,

0; (1415), 4, 1, 0; (3011), 3, 1, 0; (5699), 4, 1, 0; (5968), 4, 1, 0; (6867), 4, 1, 0; (9287), 4, 1, 0; (11123), 4, 1, 0; (13351), 4, 1, 0; (15784), 4, 1, 0; (16873), 4, 1, 0; (21552), 4, 1, 0; (27525), 4, 1, 0; (38328), 4, 1, 0; (39219), 4, 1, 0; (40540), 4, 1, 0; (45250), 3, 1, 0; (49200), 3, 1, 0; (50107), 4, 1, 0; (53453), 4, 1, 0; (53589), 4, 1, 0; (54857), 4, 1, 0; (59323), 4, 1, 0; (60474), 3, 1, 0; (62042), 3, 1, 0; (64486), 4, 1, 0; (64647), 4, 1, 0; (69353), 4, 1, 0; (69664), 3, 1, 0; (71977), 4, 1, 0; (73061), 4, 1, 0; (73091), 2, 1, 0; (79855), 4, 1, 0; (84871), 4, 1, 0; (85349), 4, 1, 0; (87380), 4, 1, 0; (87897), 4, 1, 0; (88592), 4, 1, 0; (90751), 3, 1, 0; (93823), 3, 1, 0; (94145), 4, 1, 0; (95453), 3, 1, 0; (97465), 3, 1, 0; (97638), 3, 1, 0; (98449), 4, 1, 0; (99869), 4, 1, 0; (105434), 4, 1, 0; (107020), 4, 1, 0; (109441), 4, 1, 0; (109999), 4, 1, 0; (110114), 4, 1, 0; (110358), 4, 1, 0; (116702), 4, 1, 0; (118382), 4, 1, 0; (121495), 4, 1, 0; (123698), 4, 1, 0; (123954), 4, 1, 0; (124076), 4, 1, 0; (147558), 3, 1, 0; (150504), 4, 1, 0; (150823), 3, 1, 0; (151640), 4, 1, 0; (159541), 4, 1, 0; (165828), 4, 1, 0; (165883), 3, 1, 0; (167145), 3, 1, 0; (168157), 4, 1, 0; (168485), 4, 1, 0; (169202), 3, 1, 0; (169556), 4, 1, 0; (197424), 4, 1, 0; (208255), 4, 1, 0; (209926), 2, 1, 0; (210788), 4, 1, 0; (215255), 4, 1, 0; (229030), 4, 1, 0; (232759), 4, 1, 0; (243930), 4, 1, 0; (258274), 3, 1, 0; (264851), 4, 1, 0; (269892), 3, 1, 0; (283956), 4, 1, 0; (356985), 3, 1, 0; (405184), 4, 1, 0; (413056), 2, 1, 0; *[345, 94, 1∗, 2017/09/16–2018/09/08]*

V04 FRoST, Anderson Mesa

D. Avner, Department of Physics and Astronomy, Northern Arizona University, PO Box 6010, Flagstaff, AZ 86011, U.S.A. [davner@nau.edu]
Observer A. McNeill
Measurer M. Mommert
0.60-m f/1.9 reflector + CCD
Gaia-DR1

(1627), 4, 1, 0; (2352), 8, 1, 0; (4713), 4, 1, 0; (6473), 4, 1, 0; (10216), 4, 1, 0; (10597), 4, 1, 0; (11058), 8, 1, 0; (14695), 4, 1, 0; (15745), 5, 1, 0; (24184), 4, 1, 0; (24974), 4, 1, 0; (26074), 4, 1, 0; (27212), 4, 1, 0; (35761), 4, 1, 0; (37378), 8, 1, 0; (38163), 4, 1, 0; (38322), 4, 1, 0; (40617), 4, 1, 0; (41464), 4, 1, 0; (43357), 4, 1, 0; (44283), 4, 1, 0; (47966), 4, 1, 0; (66062), 4, 1, 0; (66379), 4, 1, 0; (85988), 4, 1, 0; (100480), 4, 1, 0; (101430), 7, 1, 0; (105621), 5, 1, 0; (145547), 4, 1, 0; (159692), 6, 1, 0; (210633), 4, 1, 0; (216998), 4, 1, 0; (441987), 4, 1, 0; (523581), 4, 1, 0; *[155, 34, 0∗, 2018/05/08–2018/07/06]*

V06 Catalina Sky Survey-Kuiper

E. J. Christensen, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A. [eric@lpl.arizona.edu]
Observers D. C. Fuls, A. R. Gibbs, R. A. Kowalski
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
1.55-m reflector + CCD
Gaia-DR1, Gaia-DR2

2005 EA_{104}, 4, 1, 0; 2006 SQ_{398}, 4, 1, 0; 2012 MU_2, 4, 1, 0; 2013 CN_{128}, 4, 1, 0; 2013 NT_{11}, 4, 1, 0; 2014 KP_{40}, 3, 1, 0; 2014 QJ_{433}, 4, 1, 0; 2014 RD_{67}, 8, 2, 1; 2014 SG_{143}, 4, 1, 0; 2015 BP_{510}, 4, 1, 0; 2015 DV_{180}, 2, 1, 0; 2015 EB, 4, 1, 0; 2015 PM, 2, 1, 0; 2016 GZ_{263}, 4, 1, 0; 2016 HX_3, 8, 2, 1; 2016 JJ_{24}, 4, 1, 0; 2016 QC_{84}, 4, 1, 0; 2016 TJ_{100}, 4, 1, 0; 2016 YE_3, 4, 1, 0; 2017 CW_1, 4, 1, 0; 2017 KE_{35}, 8, 2, 1; 2017 QX_{34}, 4, 1, 0; 2018 FO_3, 2, 1, 0; 2018 GJ_1, 4, 1, 0; 2018 GW_3, 2, 1, 0; 2018 KH, 4, 1, 0; 2018 KU_1, 3, 1, 0; 2018 KB_3, 4, 1, 0; 2018 KD_3, 7, 2, 1; 2018 KG_3, 4, 1, 0; 2018 KH_3, 4, 1, 0; 2018 LB_1, 3, 1, 0; 2018 LE_1, 7, 2, 1; 2018 LT_2, 3, 1, 0; 2018 LX_2, 7, 2, 1; 2018 LY_2, 8, 2, 1; 2018 LZ_2, 6, 2, 1; 2018 LD_3, 3, 1, 0; 2018 LJ_3, 3, 1, 0; 2018 LM_3, 4, 1, 0; 2018 LX_3, 4, 1, 0; 2018 LB_4, 4, 1, 0; 2018 LF_4, 4, 1, 0; 2018 LU_{15}, 4, 1, 0; 2018 LX_{15}, 4, 1, 0; 2018 LY_{15}, 11, 3, 2; 2018 PU_7, 4, 1, 0; 2018 PE_9, 3, 1, 0; 2018 PF_9, 7, 1, 0; 2018 PH_9, 4, 1, 0; 2018 PJ_{10}, 4, 1, 0; 2018 PO_{10}, 6, 2, 16; 2018 PG_{22}, 8, 2, 9; 2018 PM_{22}, 4, 1, 0; 2018 PL_{23}, 4, 1, 0; 2018 PW_{23}, 3, 1, 0; 2018 PS_{24}, 4, 1, 0; 2018 PL_{28}, 3, 1, 0; 2018 QR, 4, 1, 0; 2018 QU, 4, 1, 0; 2018 QZ, 4, 1, 0; 2018 RA, 5, 1, 0; 2018 RZ, 3, 1, 0; 2018 RN_1, 4, 1, 0; 2018 RR_1, 8, 2, 1; 2018 RT_1, 4, 1, 0; 2018 RD_2, 7, 1, 0; 2018 RU_2, 4, 1, 0; 2018 RA_3, 8, 2, 1; 2018 RD_3, 7, 2, 1; 2018 RG_3, 8, 2, 1; 2018 RJ_3, 7, 2, 1; 2018 RM_3, 8, 2, 1; 2018 RN_3, 8, 2, 2; 2018 RR_3, 4, 1, 0; 2018 RB_4, 11, 3, 7; 2018 RE_4, 4, 1, 0; 2018 RL_4, 8, 2, 1; 2018 RN_4, 4, 1, 0; 2018 RQ_4, 4, 1, 0; 2018 RT_4, 4, 1, 0; 2018 RB_5, 4, 1, 0; 2018 RC_5, 4, 1, 0; 2018 RF_5, 11, 3, 2; 2018 RU_5, 8, 2, 6; 2018 RW_5, 4, 1, 0; 2018 RY_5, 4, 1, 0; 2018 RC_6, 3, 1, 0; 2018 RJ_6, 3, 1, 0; 2018 RW_6, 3, 1, 0; 2018 RY_6, 4, 1, 0; 2018 RF_7, 4, 1, 0; 2018 RP_7, 4, 1, 0; 2018 RS_7, 4, 1, 0; 2018 RT_7, 4, 1, 0; 2018 RV_7, 8, 2, 2; 2018 RK_8, 8, 2, 1; 2018 RT_8, 4, 1, 0; 2018 RU_8, 4, 1, 0; 2018 SJ, 8, 2, 1; 2018 SM, 4, 1, 0; 2018 SZ, 4, 1, 0; (5711), 2, 1, 0; (62066), 3, 1, 0; (64412), 4, 1, 0; (90396), 3, 1, 0; (105797), 3, 1, 0; (123472), 3, 1, 0; (188527), 3, 1, 0; (306856), 4, 1, 0; (306981), 4, 1, 0; (328232), 3, 1, 0; (351765), 4, 1, 0; (488512), 4, 1, 0; *[534, 114, 0∗, 2018/01/24–2018/09/18]*

V16 Dark Sky New Mexico, Animas

D. Crowson, 5 Nightfall Court, Dardenne Prairie, MO 63368, U.S.A. [dcrowson@crowson.com]
0.30-m f/8.0 Ritchey-Chrétien + CCD
UCAC-4

2018 EJ_4, 4, 1, 0; *[4, 1, 0∗, 2018/06/04]*

V30 Heaven on Earth Observatory, Mayhill

W. K. Y. Yeung, C902 New Kwai Fong Garden, Kwai Fong, N. T., Hong Kong [microplanet333@yahoo.com]
0.7-m reflector + CCD
GSC-ACT

2006 ST_{422}, 6, 2, 1; 2006 VJ_{175}, 4, 1, 0; 2011 NN_4, 3, 1, 0; 2011 XQ_4, 3, 1, 0; 2013 TQ_{171}, 3, 1, 0; 2014 HG_{211}, 3, 1, 0; 2016 CS_{42}, 3, 1, 0; 2016 CQ_{172}, 4, 1, 0; 2017 SX_{131}, 7, 2, 2; *[36, 9, 0∗, 2014/11/12–2017/10/15]*

V37 McDonald Observatory-LCO ELP

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
1.0-m f/8.0 Ritchey-Chrétien + CCD
Gaia-DR1

2008 PV_{22}, 9, 1, 0; 2017 YE_5, 16, 2, 1; 2018 LB_1, 3, 1, 0; (88483), 3, 1, 0; (157522), 3, 1, 0; (336594), 2, 1, 0; (517933), 3, 1, 0; *[39, 7, 0∗, 2014/10/01–2018/06/21]*

V78 Spirit Marsh Observatory. Sauk Centre

J. Briol, 37187 County Road 29, Sauk Centre, MN, U.S.A. [jfb@cloudnet.com]
0.13-m Newtonian reflector + CCD
MPOSC3

(268), 21, 7, 58; (447), 18, 6, 25; (578), 3, 1, 0; *[42, 3, 0∗, 2018/05/27–2018/09/17]*

W14 Harvest

J. G. Loum, 101 Silver Poplar Place, Harvest, AL 35749, U.S.A. [astro_josh@mgrazr.net]
0.25-m f/5.4 reflector + CCD
Gaia-DR2

2012 BQ_{14}, 3, 1, 0; (21283), 3, 1, 0; (61392), 3, 1, 0; (72753), 3, 1, 0; (110033), 2, 1, 0; (135292), 3, 1, 0; (145772), 3, 1, 0; (150548), 3, 1, 0; (150759), 3, 1, 0; (166970), 3, 1, 0; (306454), 3, 1, 0; *[32, 11, 0∗, 2018/09/04–2018/09/15]*

W19 Kalamazoo

F. E. Dutton, 918 Nichols Road, Kalamazoo, MI 49006, U.S.A. [fedutton@chartermi.net]
0.51-m f/6.8 Corrected Dall-Kirkham + CCD + f/4.5 focal reducer
UCAC-4

2011 UA, 6, 1, 0; 2015 FP_{118}, 19, 3, 15; (675), 5, 1, 0; (709), 5, 1, 0; (719), 34, 7, 60; (747), 26, 5, 56; (1627), 21, 4, 49; (1999), 14, 3, 56; (2002), 11, 2, 15; (2014), 23, 4, 34; (6456), 12, 2, 12; (13553), 46, 8, 62; (15745), 13, 3, 16; (17274), 16, 3, 18; (66391), 5, 1, 0; (68950), 4, 1, 0; (86324), 11, 3, 21; (144332), 5, 1, 0; (162168), 5, 1, 0; (350872), 6, 1, 0; (467309), 3, 1, 0; *[290, 21, 0∗, 2018/06/14–2018/09/18]*

W25 RMS Observatory, Cincinnati

B. Rowe, 5320 Miami Rd, Cincinnati, Ohio 45243, U.S.A. [basilrowe@gmail.com]
0.35-m f/7.0 Schmidt-Cassegrain + CCD
UCAC-4

2018 LQ_2, 7, 2, 2; 2018 PH_{10}, 2, 1, 0; 2018 PK_{22}, 2, 1, 0; (137125), 4, 1, 0; (140039), 3, 1, 0; *[18, 5, 0∗, 2018/08/10–2018/08/31]*

W34 Squirrel Valley Observatory, Columbus
R. L. Flynn, 3870 River Road, Columbus, North Carolina 28722, U.S.A. [squirrelvalleyobservatory@gmail.com]
0.20-m f/10 Schmidt-Cassegrain + CCD + f/7.0 focal reducer
Gaia-DR1, UCAC-4, Gaia-DR2

2001 QA_{143}, 3, 1, 0; 2002 OM_{29}, 3, 1, 0; 2002 RD_{261}, 3, 1, 0; 2008 ST_{56}, 4, 1, 0; 2011 GA_{62}, 3, 1, 0; 2012 OD_1, 3, 1, 0; 2013 RF_1, 3, 1, 0; 2015 QM_3, 4, 1, 0; 2018 EJ_4, 4, 1, 0; 2018 LJ, 4, 1, 0; 2018 LN, 3, 1, 0; 2018 LQ_2, 3, 1, 0; 2018 LU_2, 4, 1, 0; 2018 LT_6, 4, 1, 0; 2018 MK, 4, 1, 0; 2018 MB_7, 3, 1, 0; 2018 MM_8, 4, 1, 0; 2018 MR_8, 3, 1, 0; 2018 NH, 5, 1, 0; 2018 NV, 5, 1, 0; 2018 NX, 3, 1, 0; 2018 NW_4 ∗, 6, 2, 4; 2018 PU_7, 6, 1, 0; 2018 PW_7, 3, 1, 0; 2018 PD_8, 3, 1, 0; 2018 PC_{20}, 3, 1, 0; 2018 PD_{20}, 6, 1, 0; 2018 QL, 3, 1, 0; 2018 QS, 2, 1, 0; 2018 QA_1, 3, 1, 0; 2018 QF_1, 2, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QU_1, 3, 1, 0; 2018 QW_1, 4, 1, 0; 2018 RB, 3, 1, 0; 2018 RQ_2, 3, 1, 0; 2018 RB_6, 4, 1, 0; 2018 RP_8, 3, 1, 0; 2018 SD_1, 2, 1, 0; (719), 3, 1, 0; (3020), 3, 1, 0; (5700), 3, 1, 0; (8729), 3, 1, 0; (13553), 4, 1, 0; (13961), 4, 1, 0; (15418), 4, 1, 0; (15745), 4, 1, 0; (18882), 3, 1, 0; (20480), 3, 1, 0; (21277), 3, 1, 0; (25808), 3, 1, 0; (25916), 4, 1, 0; (26142), 4, 1, 0; (31345), 4, 1, 0; (32469), 3, 1, 0; (35448), 3, 1, 0; (36413), 3, 1, 0; (36681), 4, 1, 0; (41911), 3, 1, 0; (46734), 3, 1, 0; (53567), 4, 1, 0; (54391), 1, 1, 0; (63323), 3, 1, 0; (65996), 3, 1, 0; (66008), 3, 1, 0; (68347), 3, 1, 0; (68350), 3, 1, 0; (68476), 3, 1, 0; (72702), 3, 1, 0; (76009), 3, 1, 0; (81625), 3, 1, 0; (81746), 3, 1, 0; (86324), 3, 1, 0; (89665), 3, 1, 0; (99135), 3, 1, 0; (105140), 4, 1, 0; (108602), 3, 1, 0; (109605), 3, 1, 0; (114598), 3, 1, 0; (115052), 3, 1, 0; (121101), 3, 1, 0; (124754), 3, 1, 0; (130286), 3, 1, 0; (139289), 3, 1, 0; (139345), 3, 1, 0; (142729), 3, 1, 0; (153957), 3, 1, 0; (154268), 2, 1, 0; (162483), 5, 1, 0; (162980), 3, 1, 0; (163691), 4, 1, 0; (180186), 3, 1, 0; (191387), 3, 1, 0; (195831), 3, 1, 0; (197334), 3, 1, 0; (206326), 3, 1, 0; (220839), 3, 1, 0; (243176), 4, 1, 0; (246119), 3, 1, 0; (253070), 3, 1, 0; (264033), 3, 1, 0; (270083), 3, 1, 0; (273219), 3, 1, 0; (280211), 3, 1, 0; (283729), 3, 1, 0; (294164), 3, 1, 0; (304787), 3, 1, 0; (306025), 3, 1, 0; (321047), 3, 1, 0; (331729), 3, 1, 0; (363027), 1, 1, 0; (388051), 3, 1, 0; (394828), 3, 1, 0; (398188), 4, 1, 0; (402636), 3, 1, 0; (413563), 4, 1, 0; (414960), 3, 1, 0; (415029), 3, 1, 0; (418929), 3, 1, 0; (438429), 4, 1, 0; (455550), 3, 1, 0; (455791), 3, 1, 0; (467309), 3, 1, 0; (469737), 3, 1, 0; (481394), 3, 1, 0; (486980), 3, 1, 0; (504800), 3, 1, 0; (516976), 3, 1, 0; (518635), 3, 1, 0; (518640), 2, 1, 0; *[421, 130, 1∗, 2018/06/03–2018/09/20]*

W46 Foxfire Village
J. Haidet, 498 Grande Pines Vista, Jackson Springs, NC 27281, U.S.A. [jjhaidet@gmail.com]
0.36-m f/8 Ritchey-Chrétien + CCD
UCAC-4

(181), 3, 1, 0; (202), 3, 1, 0; (242), 3, 1, 0; (275), 3, 1, 0; (305), 3, 1, 0; (332), 3, 1, 0; (403), 3, 1, 0; (408), 3, 1, 0; (483), 3, 1, 0; (502), 3, 1, 0; (522), 3, 1, 0; (566), 3, 1, 0; (622), 3, 1, 0; (739), 3, 1, 0; (756), 3, 1, 0; (774), 3, 1, 0; (1022), 3, 1, 0; (1043), 3, 1, 0; (1102), 3, 1, 0; (1148), 3, 1, 0; (1349), 6, 2, 10; (1449), 2, 1, 0; (2448), 3, 1, 0; (4262), 3, 1, 0; *[74, 24, 0∗, 2018/07/09–2018/08/25]*

W49 CBA-MM Observatory, Mountain Meadows
D. Skillman, 6-G Ridge Road, Greenbelt, MD 20770, U.S.A. [dskillman@comcast.net]
0.66-m f/2.7 reflector + CCD
UCAC-3

2006 TL_5, 3, 1, 0; 2013 CB_{105}, 3, 1, 0; 2015 TA_{387}, 3, 1, 0; 2017 QF_{33}, 5, 2, 1; 2017 RG_{16}, 3, 1, 0; 2018 PE, 3, 1, 0; (49206), 7, 2, 1; (51820), 2, 1, 0; (83904), 1, 1, 0; (91349), 3, 1, 0; (104795), 3, 1, 0; (146049), 3, 1, 0; (194717), 2, 1, 0; (195511), 3, 1, 0; (205776), 5, 2, 1; (233554), 3, 1, 0; (259005), 2, 1, 0; (270877), 3, 1, 0; (296397), 3, 1, 0; (297860), 4, 1, 0; (311033), 3, 1, 0; (322827), 4, 1, 0; (325956), 3, 1, 0; (329040), 2, 1, 0; (354393), 3, 1, 0; (359643), 3, 1, 0; (408459), 3, 1, 0; (417304), 2, 1, 0; *[87, 28, 0∗, 2014/07/05–2018/09/06]*

W55 Natelli Observatory, Frederick
J. B. Gunn, Earth & Space Science Lab, 210 Madison Street, Frederick, MD 21701, U.S.A. [gunner4565@gmail.com]
0.36-m f/11 Schmidt-Cassegrain + CCD
UCAC-4

(68347), 3, 1, 0; (136108), 4, 2, 1; (174567), 4, 2, 1; *[11, 3, 0∗, 2018/07/09–2018/07/10]*

W63 Observatorio Astronomico UTP, Pereira
E. A. Quintero, Carrera 26 Nro. 10-02, Barrio Alamos, Pereira, Risaralda 660003, Colombia [obsastronomico@utp.edu.co]
Observer E. A. Quintero
Measurers D. Espitia, J. P. Uchima, M. A. Parra
0.41-m f/10 Schmidt-Cassegrain + CCD + f/6.3 focal reducer
UCAC-4

(3122), 22, 1, 0; *[22, 1, 0∗, 2017/09/02]*

W71 Rand II Observatory, Lake Placid
G. Viscome, 58 Jersey Drive, Lake Placid, NY 12946, U.S.A. [gviscome@roadrunner.com]
0.37-m f/6 reflector + CCD
Gaia-DR1, Gaia-DR2

2015 DP_{155}, 5, 1, 0; 2018 BY_2, 21, 5, 9; 2018 EJ_4, 29, 6, 20; 2018 LQ_3, 4, 1, 0; 2018 LN_4, 3, 1, 0; 2018 NQ, 12, 2, 1; 2018 NV, 4, 1, 0; 2018 QA_1, 4, 1, 0; 2018 RB_6, 3, 1, 0; (719), 5, 2, 4; (17230), 5, 1, 0; (68347), 30, 7, 19; (68950), 48, 13, 51; (136108), 8, 2, 1; (136472), 8, 2, 1; (138847), 19, 5, 9; (283729), 12, 3, 4; (387814), 6, 2, 4; (415029), 10, 3, 4; (441987), 13, 3, 9; (450648), 14, 4, 8; (455550), 32, 8, 33; (467309), 16, 4, 9; (469737), 17, 4, 9; *[328, 24, 0∗, 2018/05/08–2018/09/14]*

W76 CHILESCOPE Observatory, Rio Hurtad
S. Pogrebisskiy, Leningradskiy prospect 59-15, Moscow 125057, Russia [support@chilescope.com]
Observers T. Kessler, E. Buklikov, D. Denisenko
Measurers T. Kessler, A. Belotsky, J. Jahn, D. Denisenko, N. Biryukov, I. Boronin, A. Kurasov
0.50-m f/3.8 Newtonian reflector + CCD
Gaia-DR2, UCAC-4, USNO-B1.0

2002 PN_8, 3, 1, 0; 2008 SJ_{40}, 8, 1, 0; 2008 UF_{207}, 8, 1, 0; 2011 UV_{317}, 4, 1, 0; 2014 TQ_{68}, 8, 2, 2; 2014 VA_{28}, 8, 2, 2; 2015 BB_{556}, 4, 1, 0; 2015 TM_{77}, 3, 1, 0; 2015 VL_{117}, 3, 1, 0; 2016 BT_{95}, 4, 1, 0; 2016 CR_{159}, 4, 1, 0; 2018 PK_{22}, 4, 1, 0; 2018 QG_5, 12, 3, 19; 2018 RW_8 ∗, 16, 3, 9; 2018 RX_8 ∗, 16, 3, 9; 2018 RY_8 ∗, 16, 3, 9; 2018 RZ_8 ∗, 12, 2, 2; 2018 RA_9 ∗, 8, 2, 2; 2018 RB_9 ∗, 8, 2, 9; 2018 RC_9 ∗, 8, 2, 9; 2018 RD_9 ∗, 12, 2, 2; 2018 RE_9 ∗, 16, 4, 26; 2018 RF_9 ∗, 12, 3, 9; 2018 RU_9 ∗, 8, 2, 7; 2018 RJ_{23}, 4, 1, 0; (4145), 6, 1, 0; (24757), 3, 1, 0; (25428), 6, 1, 0; (28571), 6, 1, 0; (31750), 8, 2, 9; (41731), 6, 1, 0; (44812), 6, 1, 0; (45647), 3, 1, 0; (46355), 4, 1, 0; (50673), 6, 1, 0; (52224), 8, 2, 2; (62309), 6, 1, 0; (62365), 4, 1, 0; (62472), 4, 1, 0; (63813), 3, 1, 0; (65520), 3, 1, 0; (70940), 4, 1, 0; (73042), 4, 1, 0; (75728), 4, 1, 0; (77077), 3, 1, 0; (80235), 3, 1, 0; (81113), 6, 1, 0; (85459), 2, 1, 0; (89680), 3, 1, 0; (92200), 9, 2, 26; (102207), 3, 1, 0; (111487), 3, 1, 0; (113046), 6, 1, 0; (118340), 3, 1, 0; (118517), 4, 1, 0; (122005), 6, 1, 0; (138092), 3, 1, 0; (139950), 3, 1, 0; (142541), 4, 1, 0; (142979), 3, 1, 0; (145717), 3, 1, 0; (169293), 4, 1, 0; (170260), 4, 1, 0; (170869), 12, 3, 9; (181904), 3, 1, 0; (188971), 3, 1, 0; (193977), 4, 1, 0; (197847), 6, 1, 0; (200083), 8, 2, 2; (227665), 3, 1, 0; (227812), 3, 1, 0; (233193), 3, 1, 0; (234655), 3, 1, 0; (235929), 4, 1, 0; (242016), 8, 2, 9; (242242), 3, 1, 0; (243562), 12, 2, 9; (247045), 4, 1, 0; (254081), 6, 1, 0; (256339), 14, 3, 9; (270045), 6, 1, 0; (281849), 12, 3, 26; (283386), 3, 1, 0; (286563), 4, 1, 0; (299487), 4, 1, 0; (314247), 6, 1, 0; (316700), 4, 1, 0; (326712), 8, 2, 9; (328944), 3, 1, 0; (330134), 16, 4, 26; (339973), 3, 1, 0; (343796), 2, 1, 0; (352232), 6, 1, 0; (353681), 6, 1, 0; (358756), 6, 1, 0; (369971), 16, 3, 26; (375084), 8, 1, 0; (376024), 8, 2, 9; (401787), 8, 1, 0; (401944), 4, 1, 0; (419889), 8, 2, 9; (452868), 3, 1, 0; (473399), 12, 2, 2; (488779), 16, 3, 26; (518934), 10, 2, 9; *[659, 105, 11∗, 2018/04/16–2018/09/15]*

W77 Skyledge Observatory, Killingworth
J. E. Mazur, 176 Chestnut Hill Road, Killingworth, CT 06419, U.S.A. [mazurj1@comcast.net]
0.36-m f/6 Schmidt-Cassegrain + CCD
UCAC-4

2007 GW_{46}, 3, 1, 0; 2012 PH_{20}, 8, 3, 8; *[11, 2, 0∗, 2015/11/16–2016/06/10]*

W78 Clay Telescope, Harvard University
A. Bieryla, 60 Garden St MS-10, Cambridge, MA 02138, U.S.A. [abieryla@cfa.harvard.edu]

Observers A. Bieryla, N. S. Abrams, S. Gomez, J. Huang, J. Lewis, Z. Todd, M. K. Alam, L. Garrison
0.4-m reflector + CCD
GSC-ACT
(24689), 71, 1, 0; *[71, 1, 0∗, 2018/07/10]*

W79 Cerro Tololo-LCO Aqawan B #1
T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
0.4-m $f/8.0$ Schmidt-Cassegrain + CCD
Gaia-DR1
2018 PH_{18}, 3, 1, 0; (149704), 6, 1, 0; (467309), 11, 1, 0; *[20, 3, 0∗, 2018/05/25–2018/08/08]*

W84 Cerro Tololo-DECam
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs.it@gmail.com] (3)
L. Allen, NOAO, 950 N. Cherry Ave., P.O. Box 26732, Tucson, AZ 85726, U.S.A. [lallen@noao.edu] (5)
D. Gerdes, Dept. of Physics, University of Michigan, Ann Arbor, MI 48109, U.S.A. [gerdes@umich.edu] (7)
J. Bauer, no details supplied [James.Bauer@jpl.nasa.gov] (9)
F. Valdes, NOAO, 950 N. Cherry Ave., P.O. Box 26732, Tucson, AZ 85726, U.S.A. [valdes@noao.edu] (10)
R. S. McMillan, Univ. of Arizona, 1629 E. Univ. Blvd, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu] (12)
J. B. Kalmbach, Box 351560 Seattle, WA 98195, U.S.A. [brycek@uw.edu] (13)
O. Vaduvescu, no details supplied [ovidiu.vaduvescu@gmail.com] (14)
Observers M. J. Brucker, A. K. Vivas, C. E. Martínez-Vázquez, Á. Berihuete, A. A. Alvarez, H. Bouy, R. A. Hernández, H. A. Tirado, S. Birrer, F. Castander, K. Bechtol, E. Buckkley-Geer, M. March, Y.-Y. Zhang, B. Nord, M. Sako, N. Kuropatkin, M. Johnson, N. Shipp, Y. Zhang, G. Khullarg, E. Cook, J. Marshall, K. Romer, D. Hollowood, N. Weaverdyck, I. Friswell, A. Ferte, H.-Y. Wu, S. Bhargava, T. Li, R. Capasso, F. Chinchon, R. Das, M. Rodriguez-Monroy, A. Pace, A. Kremin, D. Gulledge, J. Smith, M. Medford, B. Soergel, D. Goldstein, A. Stebbins, G. Bernstein, R. Cawthon, D. Brout, F. Paz, A. Elliott, M. Murphy, S. Hamilton, S. Kent, R. Kron, M. Gill, K. Furnell, R. Wilkinson, S. Everett, J. Carballo-Bello, B. Yanny, D. DePoy, K. Vivas, T. Prochaska, T. Puzia, H. Zhang, B. Miller, S. Allam, D. Tucker, C. Wethers, N. Sevilla Noarbe, M.-Y. Wang, K. Story, A. Palmese, C. Bonnett, E. Buckley-Geer, L. Clerkin, C. Smith, R. Ogando, M. Schubnell, N. MacCrann, J. A. Smith, E. Balbinot, K. Reil, K. Grabowski, H. Spinka, E. Krause, D. Gerdes, D. Mudd, D. Nagasawa, A. Zenteno, I. Mohammed, B. Thomas, G. Khullar, J. Annis, F. Förster, J. C. Maureira, L. Galbany, T. de Jaeger, J. Martínez, G. Pignata, G. Medina, S. González
Measurers M. J. Brucker, D. Gerdes, H.-W. Lin, S. J. Hamilton, M. Sako, G. Bernstein, P. Bernardinelli, S. Hamilton, F. Valdes, J. B. Kalmbach, P. Whidden, A. J. Connolly, L. Curelaru, O. Vaduvescu, M. Popescu, B. Danila
4.0-m $f/2.8$ CTIO reflector
USNO-B1.0, Gaia-DR1
{10} 1994 EV_3, 3, 2, 1; 2001 FK_{185}, 3, 2, 1; 2003 HD_{57}, 3, 2, 1; 2003 HE_{57}, 7, 4, 361; 2003 HF_{57}, 4, 2, 1; 2003 HG_{57}, 4, 2, 1; 2003 HO_{57}, 3, 2, 1; 2004 HK_{79}, 3, 2, 1; 2004 HM_{79}, 4, 2, 1; 2004 HN_{79}, 3, 2, 1; 2004 KE_{19}, 3, 2, 1; 2006 HQ_{122}, 3, 2, 1; 2006 TU_{131}, 3, 1, 0; 2006 XQ_{74}, 4, 1, 0; 2012 HL_{85}, 4, 2, 1; 2012 UV_{184}, 3, 1, 0; 2013 EM_{149}, 4, 2, 1; 2013 GO_{136}, 4, 2, 1; 2013 GQ_{136}, 4, 2, 1; 2013 GY_{136}, 3, 2, 1; 2013 GH_{137}, 4, 2, 1; 2013 GJ_{137}, 4, 2, 1; 2013 GL_{137}, 4, 2, 1; 2013 GM_{137}, 4, 2, 1; 2013 GY_{137}, 3, 2, 1; 2013 GB_{138}, 4, 2, 1; 2013 VP_{31}, 3, 1, 0; 2014 DT_{143}, 4, 2, 1; 2014 GH_{54}, 4, 2, 1; 2014 HJ_{208} ∗, 4, 2, 1; 2014 HK_{208} ∗, 4, 2, 1; 2014 HL_{208} ∗, 4, 2, 1; 2014 HM_{208} ∗, 4, 2, 1; 2014 HN_{208} ∗, 3, 2, 1; 2014 HO_{208} ∗, 3, 2, 1; 2014 HP_{208} ∗, 4, 2, 1; 2014 HQ_{208} ∗, 4, 2, 1; 2014 HR_{208} ∗, 7, 4, 361; 2014 HS_{208} ∗, 3, 2, 1; 2014 HT_{208} ∗, 3, 2, 1; 2014 HU_{208} ∗, 3, 2, 1; 2014 HV_{208} ∗, 3, 2, 1; 2014 HW_{208} ∗, 3, 2, 1; 2014 HX_{208} ∗, 4, 2, 1; 2014 HY_{208} ∗, 3, 2, 1; 2014 HZ_{208} ∗, 4, 2, 1; 2014 HA_{209} ∗, 3, 2, 1; 2014 HB_{209} ∗, 4, 2, 1; 2014 HC_{209} ∗, 4, 2, 1; 2014 HD_{209} ∗, 3, 2, 1; 2014 HE_{209} ∗, 4, 2, 1; 2014 HF_{209} ∗, 4, 2, 1; 2014 HG_{209} ∗, 4, 2, 1; 2014 HH_{209} ∗, 3, 2, 1; 2014 HJ_{209} ∗, 4, 2, 1; 2014 HK_{209} ∗, 4, 2, 1; 2014 HL_{209} ∗, 4, 2, 1; 2014 HM_{209} ∗, 3, 2, 1; 2014 HN_{209} ∗, 4, 2, 1; 2014 HO_{209} ∗, 3, 2, 1; 2014 HP_{209} ∗, 4, 2, 1; 2014 HQ_{209} ∗, 3, 2, 1; 2014 HR_{209} ∗, 3, 2, 1; 2014 JC_{92} ∗, 3, 2, 1; 2014 JD_{92} ∗, 3, 2, 1; 2014 JE_{92} ∗, 3, 2, 1; 2014 KU_{101}, 4, 2, 1; 2014 SU_{349}, 3, 2, 1; 2014 SM_{363} ∗, 3, 2, 1; 2014 SN_{363} ∗, 4, 2, 1; 2014 SO_{363} ∗, 4, 2, 1; 2014 SP_{363} ∗, 5, 2, 1; 2014 SQ_{363} ∗, 3, 2, 1; 2014 SR_{363} ∗, 3, 2, 1; 2014 SS_{363} ∗, 3, 2, 1; 2014 ST_{363} ∗, 3, 2, 1; 2014 SU_{363} ∗, 3, 2, 1; 2014 SV_{363} ∗, 3, 2, 1; 2014 SW_{363} ∗, 3, 2, 1; 2014 SX_{363} ∗, 3, 2, 1; 2014 SY_{363} ∗, 3, 2, 1; 2014 SZ_{363} ∗, 3, 2, 1; 2014 SA_{364} ∗, 3, 2, 1; 2014 SB_{364} ∗, 3, 2, 1; 2014 SC_{364} ∗, 3, 2, 1; 2014 SD_{364} ∗, 3, 2, 1; 2014 SE_{364} ∗, 3, 2, 1; 2014 SF_{364} ∗, 3, 2, 1; 2014 SG_{364} ∗, 3, 2, 1; 2014 SH_{364} ∗, 3, 2, 1; 2014 SJ_{364} ∗, 3, 2, 1; 2014 SK_{364} ∗, 3, 2, 1; 2014 SL_{364} ∗, 3, 2, 1; 2014 SM_{364} ∗, 3, 2, 1; 2014 SN_{364} ∗, 3, 2, 1; 2014 SO_{364} ∗, 3, 2, 1; 2015 HX_{194} ∗, 3, 2, 1; 2015 HY_{194} ∗, 3, 2, 1; 2015 HZ_{194} ∗, 3, 2, 1; 2015 HA_{195} ∗, 3, 2, 1; 2015 HB_{195} ∗, 3, 2, 1; 2015 HC_{195} ∗, 4, 2, 1; 2015 HD_{195} ∗, 4, 2, 1; 2015 HE_{195} ∗, 4, 2, 1; 2015 HF_{195} ∗, 4, 2, 1; 2015 HG_{195} ∗, 4, 2, 1; 2015 HH_{195} ∗, 3, 2, 1; 2015 HJ_{195} ∗, 4, 2, 1; 2015 HK_{195} ∗, 3, 2, 1; 2015 HL_{195} ∗, 4, 2, 1; 2015 HM_{195} ∗, 4, 2, 1; 2015 HN_{195} ∗, 4, 2, 1; 2015 HO_{195} ∗, 4, 2, 1; 2015 HP_{195} ∗, 3, 2, 1; 2015 HQ_{195} ∗, 3, 2, 1; 2015 HR_{195} ∗, 3, 2, 1; 2015 HS_{195} ∗, 3, 2, 1; 2015 HT_{195} ∗, 4, 2, 1; 2015 HU_{195} ∗, 4, 2, 1; 2015 HV_{195} ∗, 4, 2, 1; 2015 HW_{195} ∗, 4, 2, 1; 2015 HX_{195} ∗, 4, 2, 1; 2015 HY_{195} ∗, 4, 2, 1; 2015 HZ_{195} ∗, 3, 2, 1; 2015 HA_{196} ∗, 4, 2, 1; 2015 HB_{196} ∗, 4, 2, 1; 2015 HC_{196} ∗, 4, 2, 1; 2015 HD_{196} ∗, 4, 2, 1; 2015 HE_{196} ∗, 3, 2, 1; 2015 HF_{196} ∗, 3, 2, 1; 2015 HG_{196} ∗, 3, 2, 1; 2015 HH_{196} ∗, 3, 2, 1; 2015 HJ_{196} ∗, 3, 2, 1; 2015 HK_{196} ∗, 3, 2, 1; 2015 HL_{196} ∗, 3, 2, 1; 2015 HM_{196} ∗, 4, 2, 1; 2015 HN_{196} ∗, 3, 2, 1; 2015 HO_{196} ∗, 4, 2, 1; 2015 HP_{196} ∗, 4, 2, 1; 2015 HQ_{196} ∗, 4, 2, 1; 2015 HR_{196} ∗, 4, 2, 1; 2015 HS_{196} ∗, 3, 2, 1; 2015 KF_{172} ∗, 4, 4, 4; 2015 KG_{172} ∗, 4, 4, 4; 2015 MY_{149} ∗, 3, 2, 1; 2015 MZ_{149} ∗, 4, 2, 1; 2015 MA_{150} ∗, 4, 2, 1; 2015 MB_{150} ∗, 4, 2, 1; 2015 MC_{150} ∗, 4, 2, 1; 2015 OV_{79}, 3, 2, 1; 2016 FX_{58}, 3, 1, 0; (60621), 4, 2, 1; (82155), 3, 2, 1; (129746), 3, 2, 1; (437915), 4, 2, 1; (444018), 4, 2, 1; (444025), 6, 3, 360; (469509), 4, 2, 1; (470308), 3, 2, 1; (470593), 3, 2, 1; (472231), 3, 2, 1; (500837), 3, 2, 1; (500838), 3, 2, 1; (500840), 3, 2, 1; *[576, 164, 118∗, 2013/03/17–2015/06/24]*

{12} 2017 TA_6, 3, 1, 0; 2018 AM_{12}, 3, 1, 0; *[6, 2, 0∗, 2018/03/29–2018/04/25]*

{13} 2011 CX_{119}, 14, 5, 10; 2013 FZ_{27}, 14, 6, 10; 2014 BV_{64}, 15, 4, 10; 2014 XP_{40}, 16, 6, 10; 2014 XW_{40}, 11, 4, 10; 2015 BF_{519}, 15, 5, 10; 2015 DO_{248} ∗, 12, 4, 5; 2015 DP_{248} ∗, 14, 4, 7; 2015 DQ_{248} ∗, 14, 5, 7; 2015 DR_{248} ∗, 14, 5, 7; 2015 DS_{248} ∗, 16, 4, 5; 2015 DT_{248} ∗, 19, 5, 10; 2015 DU_{248} ∗, 11, 3, 2; 2015 DV_{248} ∗, 15, 5, 7; 2015 DW_{248} ∗, 17, 6, 10; 2015 DX_{248} ∗, 12, 4, 5; 2015 DY_{248} ∗, 13, 4, 5; 2015 DZ_{248} ∗, 19, 5, 7; 2015 DA_{249} ∗, 18, 5, 7; 2015 DB_{249} ∗, 14, 5, 7; 2015 DC_{249} ∗, 12, 4, 5; 2015 DD_{249} ∗, 18, 5, 10; 2015 DE_{249} ∗, 19, 5, 7; 2015 DF_{249} ∗, 16, 5, 7; 2015 DG_{249} ∗, 17, 5, 7; 2015 DH_{249} ∗, 10, 3, 2; 2015 DJ_{249} ∗, 17, 4, 5; 2015 DK_{249} ∗, 10, 3, 2; 2015 DL_{249} ∗, 14, 4, 7; 2015 DM_{249} ∗, 13, 3, 5; 2015 DN_{249} ∗, 10, 3, 2; 2015 DO_{249} ∗, 18, 5, 7; 2015 DP_{249} ∗, 13, 4, 5; 2015 DQ_{249} ∗, 20, 5, 7; 2015 DR_{249} ∗, 11, 3, 2; 2015 DS_{249} ∗, 11, 4, 7; 2015 DT_{249} ∗, 13, 4, 5; 2015 DU_{249} ∗, 11, 4, 7; 2015 DV_{249} ∗, 15, 5, 7; 2015 DW_{249} ∗, 11, 4, 5; 2015 DX_{249} ∗, 18, 6, 10; 2015 DY_{249} ∗, 12, 3, 2; 2015 DZ_{249} ∗, 11, 4, 5; 2015 DA_{250} ∗, 12, 5, 7; 2015 DB_{250} ∗, 11, 5, 10; *[636, 45, 39∗, 2015/02/17–2015/02/27]*

{14} 2014 EU, 2, 1, 0; 2015 HE_{183}, 4, 1, 0; 2015 XP, 6, 2, 8; *[12, 3, 0∗, 2014/03/05–2015/11/15]*

{3} 2008 CO_{219}, 12, 1, 0; 2012 AR_{25}, 149, 1, 0; *[161, 2, 0∗, 2017/06/02]*

{5} 2003 HO_{57}, 3, 3, 3; 2011 US_{19}, 5, 1, 0; 2012 JH_{67}, 3, 3, 3; 2014 GT_{53}, 3, 3, 4; 2014 GK_{54}, 3, 3, 2; 2014 HL_{93}, 5, 1, 0; 2014 HS_{209} ∗, 3, 3, 2; 2014 HT_{209} ∗, 3, 3, 2; 2014 HU_{209} ∗, 3, 3, 2; 2014 HV_{209} ∗, 3, 3, 2; 2014 HW_{209} ∗, 3, 3, 2; 2014 HX_{209} ∗, 3, 3, 3; 2014 HY_{209} ∗, 4, 4, 3; 2014 HZ_{209} ∗, 3, 3, 4; 2014 HA_{210} ∗, 3, 3, 2; 2014 HB_{210} ∗, 3, 3, 2; 2014 HC_{210} ∗, 4, 4, 3; 2014 HD_{210} ∗, 4, 4, 3; 2014 HE_{210} ∗, 4, 4, 3; 2014 HF_{210} ∗, 4, 4, 3; 2014 HG_{210} ∗, 3, 3, 3; 2014 HH_{210} ∗, 3, 3, 2; 2014 HJ_{210} ∗, 3, 3, 3; 2014 HK_{210} ∗, 4, 4, 3; 2014 HL_{210} ∗, 3, 3, 3; 2014 HM_{210} ∗, 3, 3, 2; 2014 HN_{210} ∗, 3, 3, 2; 2014 HO_{210} ∗, 3, 3, 2; 2014 HP_{210} ∗, 3, 3, 2; 2014 HQ_{210} ∗, 3, 3, 2; 2014 HR_{210} ∗, 3, 3, 2; 2014 HS_{210} ∗, 3, 3, 2; 2014 HT_{210} ∗, 4, 4, 3; 2014 HU_{210} ∗, 3, 3, 3; 2014 HV_{210} ∗, 4, 4, 3; 2014 HW_{210} ∗, 3, 3, 2; 2014 HX_{210} ∗, 3, 3, 2; 2014 HY_{210} ∗, 3, 3, 2; 2014 HZ_{210} ∗, 3, 3, 2; 2014 HA_{211} ∗, 3, 3, 4; 2014 HB_{211} ∗, 3, 3, 4; 2014 HC_{211} ∗, 3, 3, 4; 2014 HD_{211} ∗, 3, 3, 4; *[141, 43, 37∗, 2014/04/23–2015/05/24]*

{7} 2013 VX_{30} *, 60, 23, 1567; 2014 QP_{441}, 6, 3, 12; 2014 SO_{350}, 12, 9, 1152; 2014 UU_{240} *, 13, 9, 755; 2014 VR_{39} *, 9, 6, 41; 2014 XY_{40}, 5, 4, 37; 2015 PF_{312}, 68, 19, 148; 2015 QT_{11}, 18, 12, 431; 2015 RS_{245}, 6, 3, 42; 2016 QP_{85}, 36, 13, 124; (491768), 6, 2, 5; *[239, 11, 3*, 2013/10/02–2018/01/16]*

{9} 2007 VN_{340}, 3, 1, 0; 2015 KZ_{172} *, 3, 1, 0; 2017 DH_{36}, 25, 1, 0; *[31, 3, 1*, 2015/05/27–2015/06/03]*

W85 Cerro Tololo-LCO A

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Observers T. Lister, S. Greenstreet, J. Chatelain, E. Gomez, J. D. Armstrong, A. Tedeschi, D. Bodewits, T. Farnham

Measurers S. Greenstreet, T. Lister, J. D. Armstrong, A. Tedeschi, M. Micheli

1.0-m $f/8.0$ Ritchey-Chrétien + CCD

Gaia-DR1, PPMXL, Gaia-DR2

2003 FY_6, 10, 1, 0; 2010 JO_{33}, 6, 1, 0; 2014 WG_{365}, 7, 1, 0; 2018 LB_1, 3, 1, 0; 2018 NA_2, 4, 1, 0; 2018 NB_2, 4, 1, 0; 2018 NC_2, 4, 1, 0; 2018 NP_{15}, 8, 2, 12; 2018 PS_7, 6, 1, 0; 2018 RC, 7, 1, 0; (123), 4, 1, 0; (88483), 3, 1, 0; (157522), 3, 1, 0; (302942), 3, 1, 0; (336594), 3, 1, 0; (517933), 3, 1, 0; *[78, 16, 0*, 2018/03/29–2018/09/08]*

W86 Cerro Tololo-LCO B

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1.0-m $f/8$ Ritchey-Chrétien + 4096×4096 CCD

PPMXL

2014 ON_{280}, 3, 1, 0; *[3, 1, 0*, 2014/08/19]*

W87 Cerro Tololo-LCO C

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Observers T. Lister, S. Greenstreet, J. Chatelain, E. Gomez, J. D. Armstrong, R. R. Kincaid, A. Tedeschi, D. Bodewits, T. Farnham

Measurers S. Greenstreet, T. Lister, J. D. Armstrong, R. R. Kincaid, A. Tedeschi, B. Shappee, K. Stanek, J. Prieto, M. Micheli

0.14-m refractor + CCD, 1.0-m $f/8.0$ Ritchey-Chrétien + CCD

Gaia-DR1, PPMXL, Tycho-2, Gaia-DR2

2003 FY_6, 20, 2, 2; 2010 JO_{33}, 6, 2, 1; 2014 ON_{280}, 7, 1, 0; 2018 AS_{18}, 3, 1, 0; 2018 NC_4, 4, 1, 0; 2018 NP_{15}, 4, 1, 0; 2018 PF_9, 5, 1, 0; 2018 PG_{18}, 4, 1, 0; 2018 PJ_{18}, 8, 2, 1; 2018 RC, 5, 1, 0; *[66, 10, 0*, 2014/08/18–2018/09/06]*

W88 Slooh.com Chile Observatory, La Dehesa

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Observers K. Dankov, B. Lütkenhöner, M. Suzuki, G. Gašparović, Y. Chen, A. Kocsis, A. Nagy Mélykuti, K. Sárneczky, T. Zalezsák, M. Kumrucu-Lohmiller, N. Paul, A. J. Evans, W. F. Cashwell, P. Cox

Measurers K. Dankov, B. Lütkenhöner, M. Suzuki, G. Gašparović, Y. Chen, G. Y. Gasparovic, A. Kocsis, A. Nagy Mélykuti, K. Sárneczky, T. Zalezsák, M. Kumrucu-Lohmiller, N. Paul, A. J. Evans, W. F. Cashwell

0.36-m Schmidt-Cassegrain + CCD

Gaia-DR1, UCAC-4, Gaia-DR2, USNO-B1.0

{12} 2018 FQ_5, 3, 1, 0; 2018 MC, 3, 1, 0; 2018 NN_4, 2, 1, 0; 2018 PK_{22}, 3, 1, 0; *[11, 4, 0*, 2018/05/06–2018/08/15]*

{13} (3380), 2, 1, 0; (13017), 2, 1, 0; (38442), 2, 1, 0; (48375), 2, 1, 0; (52402), 2, 1, 0; *[10, 5, 0*, 2018/07/25–2018/08/20]*

{1} 2018 NU_3, 3, 1, 0; 2018 QV_1, 3, 1, 0; 2018 RQ_1, 3, 1, 0; *[9, 3, 0*, 2018/09/04–2018/09/09]*

{3} (89670), 3, 1, 0; *[3, 1, 0*, 2018/08/16]*

{4} (10), 4, 1, 0; (5381), 3, 1, 0; (40338), 2, 1, 0; *[9, 3, 0*, 2017/03/16–2017/03/21]*

{5} 2015 OH, 7, 2, 1; 2018 LU_3, 4, 2, 1; 2018 NN_4, 3, 1, 0; 2018 PL_9, 8, 2, 1; (7789), 5, 1, 0; (22074), 4, 1, 0; *[31, 6, 0*, 2018/06/18–2018/08/17]*

W89 Cerro Tololo-LCO Aqawan A #1

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Observers A. Tedeschi, T. Lister, J. Chatelain, S. Greenstreet, E. Gomez

0.4-m $f/8.0$ Schmidt-Cassegrain + CCD

Gaia-DR1

2018 NA_2, 3, 1, 0; 2018 PA_8, 3, 1, 0; 2018 PC_8, 4, 1, 0; (3823), 4, 1, 0; (39462), 6, 1, 0; (86566), 6, 1, 0; (106606), 6, 1, 0; (207094), 4, 1, 0; *[36, 8, 0*, 2018/07/11–2018/08/14]*

W90 Phillips Exeter Academy Grainger Observatory

J. A. Blackwell, 20 Main St., Exeter, NH, U.S.A. [jblackwell@exeter.edu]

0.25-m $f/8.1$ Ritchey-Chrétien + CCD

USNO-A2.0

(774), 4, 2, 1; *[4, 1, 0*, 2018/08/24–2018/08/25]*

W95 Observatorio Panameno, San Pedro de Atacama

J. Fabrega, Apartado 0819-11182, Panama, Panama [fabrega@ae.com.pa]

PPMXL

2011 BY_{169}, 4, 1, 0; 2017 RQ_{107}, 4, 1, 0; *[8, 2, 0*, 2015/02/17–2015/02/26]*

W96 CAO, San Pedro de Atacama (since 2013)

A. Maury, Casilla 21, 1410000 San Pedro de Atacama, Chile [amaury@spaceobs.com]

Observers A. Maury, J.-B. de Vanssay, J.-F. Soulier, T. Noel, J.-G. Bosch

0.4-m $f/5$ Ritchey-Chrétien + CCD

UCAC-4, Gaia-DR1

2018 KH_3, 3, 1, 0; (1327), 3, 1, 0; (3552), 16, 5, 10; (5001), 3, 1, 0; (7968), 2, 1, 0; (14665), 2, 1, 0; *[29, 6, 0*, 2018/05/23–2018/09/14]*

W98 Polonia Observatory, San Pedro de Atacama

M. Żołnowski, Godebskiego 55a, Cracow, Poland [michael.zolnowski@gmail.com]

Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski

0.25-m $f/3.6$ reflector + CCD, 0.25-m $f/3.6$ astrograph + CCD

UCAC-4

2001 RN_{57}, 3, 1, 0; 2001 RE_{59}, 3, 1, 0; 2001 UG_7, 3, 1, 0; 2002 RJ_{270}, 3, 1, 0; 2002 UK_{79}, 3, 1, 0; 2003 ST_{435}, 3, 1, 0; 2004 TL_{126}, 3, 1, 0; 2005 JZ_{118}, 3, 1, 0; 2005 QM_{19}, 3, 1, 0; 2005 QV_{36}, 6, 2, 6; 2006 BH_{286}, 3, 1, 0; 2006 HM_{26}, 3, 1, 0; 2006 SG_{423}, 3, 1, 0; 2006 WW_{208}, 4, 1, 0; 2006 YO, 3, 1, 0; 2007 RQ_{315}, 3, 1, 0; 2007 TD_{267}, 3, 1, 0; 2007 YN_{77}, 2, 1, 0; 2008 RT_{26}, 3, 1, 0; 2009 SJ_{21}, 6, 2, 6; 2010 SG_{45}, 3, 1, 0; 2010 TA_{195}, 6, 2, 7; 2010 TK_{195}, 3, 1, 0; 2010 WK_{75}, 3, 1, 0; 2011 AW_{83}, 5, 1, 0; 2011 SW_{258}, 3, 1, 0; 2011 TE_9, 6, 2, 6; 2011 UX_{83}, 3, 1, 0; 2012 YX, 3, 1, 0;

2013 PS_{83}, 3, 1, 0; 2013 RT_{35}, 3, 1, 0; 2013 YL_{155}, 3, 1, 0; 2014 EJ_{51}, 3, 1, 0; 2014 LE_{15}, 3, 1, 0; 2014 OQ_{295}, 3, 1, 0; 2014 OC_{372}, 3, 1, 0; 2014 QC_{335}, 3, 1, 0; 2014 RM_{6}, 6, 2, 6; 2014 SF_{151}, 3, 1, 0; 2014 TT_{21}, 3, 1, 0; 2014 TH_{28}, 3, 1, 0; 2014 TG_{44}, 6, 2, 58; 2014 TS_{59}, 3, 1, 0; 2014 WD_{357}, 3, 1, 0; 2014 WR_{535}, 3, 1, 0; 2015 OQ_{20}, 3, 1, 0; 2015 OL_{74}, 3, 1, 0; 2015 SJ_{19}, 3, 1, 0; 2015 TW_{249}, 3, 1, 0; 2015 TP_{368}, 3, 1, 0; 2016 AW_{172}, 3, 1, 0; 2016 JC_{5}, 3, 1, 0; 2017 NU_{4}, 3, 1, 0; 2017 NJ_{5}, 3, 1, 0; 2018 JJ_{4}, 6, 2, 1; 2018 QF_{6}, 3, 1, 0; 2018 RS_{9}, 3, 1, 0; 2018 RV_{13}, 3, 1, 0; 2018 RC_{15}, 6, 2, 6; 2018 RZ_{19}, 6, 2, 6; 2018 RU_{20}, 3, 1, 0; (27), 3, 1, 0; (28), 3, 1, 0; (76), 3, 1, 0; (113), 3, 1, 0; (115), 3, 1, 0; (150), 3, 1, 0; (182), 3, 1, 0; (209), 3, 1, 0; (240), 3, 1, 0; (244), 3, 1, 0; (245), 3, 1, 0; (263), 6, 2, 6; (269), 3, 1, 0; (299), 3, 1, 0; (321), 3, 1, 0; (340), 6, 2, 1; (348), 3, 1, 0; (431), 3, 1, 0; (436), 3, 1, 0; (522), 3, 1, 0; (523), 3, 1, 0; (566), 3, 1, 0; (570), 3, 1, 0; (582), 3, 1, 0; (587), 3, 1, 0; (678), 3, 1, 0; (792), 3, 1, 0; (848), 3, 1, 0; (975), 9, 2, 1; (1052), 6, 2, 1; (1073), 3, 1, 0; (1091), 3, 1, 0; (1213), 3, 1, 0; (1220), 3, 1, 0; (1229), 6, 2, 6; (1296), 3, 1, 0; (1319), 6, 2, 6; (1348), 3, 1, 0; (1375), 3, 1, 0; (1423), 3, 1, 0; (1432), 3, 1, 0; (1449), 3, 1, 0; (1563), 3, 1, 0; (1788), 6, 2, 6; (1835), 6, 2, 6; (1859), 3, 1, 0; (1932), 6, 2, 6; (1938), 3, 1, 0; (1976), 3, 1, 0; (2003), 3, 1, 0; (2018), 6, 2, 6; (2104), 3, 1, 0; (2149), 6, 2, 1; (2191), 3, 1, 0; (2197), 3, 1, 0; (2220), 3, 1, 0; (2250), 3, 1, 0; (2293), 6, 2, 6; (2325), 3, 1, 0; (2343), 3, 1, 0; (2354), 3, 1, 0; (2373), 3, 1, 0; (2387), 6, 2, 1; (2406), 3, 1, 0; (2508), 3, 1, 0; (2561), 6, 2, 6; (2592), 6, 2, 6; (2617), 3, 1, 0; (2768), 6, 2, 1; (2820), 3, 1, 0; (2825), 3, 1, 0; (2857), 3, 1, 0; (2859), 6, 2, 6; (2916), 3, 1, 0; (2984), 3, 1, 0; (3010), 6, 2, 6; (3041), 3, 1, 0; 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Measurers C. N. Fornari, C. Colazo
0.35-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4

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0.3-m $f/4$ reflector + CCD, 0.31-m $f/2.9$ Newtonian reflector + CCD
UCAC-4

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Observers C. Jacques, E. Pimentel, J. Barros
0.45-m $f/2.9$ reflector + CCD, 0.28-m $f/2.2$ astrograph + CCD
UCAC-4, UCAC-2

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Observers E. Rondon, P. Arcoverde, F. Monteiro, D. Lazzaro, R. Souza, T. Rodrigues
Measurer M. Micheli
1.0-m $f/7$ reflector + CCD
Gaia-DR2

2018 JG_1, 2, 1, 0; 2018 PU_{19}, 3, 1, 0; 2018 RZ_5, 2, 1, 0; *[7, 3, 0∗, 2018/06/10–2018/09/14]*

Z21 Tenerife-LCO Aqawan A #1

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, J. Chatelain, E. Gomez, S. Greenstreet
0.4-m $f/8.0$ Schmidt-Cassegrain + CCD
Gaia-DR1

2015 DP_{155}, 12, 1, 0; 2018 EJ_4, 6, 1, 0; *[18, 2, 0∗, 2018/05/30]*

Z22 MASTER-IAC Observatory, Tenerife

V. Lipunov, no details supplied [lipunov2007@gmail.com]
Observers M. Serra-Ricart, V. Lipunov, E. Gorbovskoy, R. Rebolo, G. Israelyan, N. Lodieu, P. Balanutsa, A. Kuznetsov, N. Tiurina, O. Gress, V. Chazov, K. Ivanov, D. Vlasenko
Measurers S. Lemes-PereraCOM Cazasteroides: banks, S. Lemes-Perera
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0

2000 OA_{22}, 10, 1, 0; 2000 QP_{30}, 3, 1, 0; 2001 MA_5, 4, 1, 0; 2002 PD_{141}, 2, 1, 0; 2004 RO_{24}, 2, 1, 0; 2005 QW_{97}, 3, 1, 0; 2005 QA_{175}, 11, 1, 0; 2005 RB, 3, 1, 0; 2005 RM_{25}, 3, 1, 0; 2005 SQ_{155}, 4, 1, 0; 2005 UT_{486}, 2, 1, 0; 2005 VX_{16}, 4, 1, 0; 2007 RX_{19}, 2, 1, 0; 2007 RB_{243}, 4, 1, 0; 2007 UH_{11}, 5, 1, 0; 2008 SX_6, 2, 1, 0; 2009 MW_6, 5, 1, 0; 2011 GA_{62}, 2, 1, 0; 2011 UX_{83}, 3, 1, 0; 2011 YT_{60}, 2, 1, 0; 2012 HY_{34}, 2, 1, 0; 2013 AR_{91}, 6, 1, 0; 2013 PJ_{40}, 4, 1, 0; 2013 YJ_{107}, 2, 1, 0; 2014 AX_{12}, 5, 1, 0; 2014 AP_{13}, 2, 1, 0; 2014 JY_{77}, 3, 1, 0; 2014 KK_{90}, 12, 1, 0; 2014 LU_{27}, 4, 1, 0; 2014 NX_{63}, 2, 1, 0; 2014 OO_{157}, 2, 1, 0; 2014 TK_{35}, 3, 1, 0; 2014 UT_3, 3, 1, 0; 2014 UL_{216}, 2, 1, 0; 2014 VN_{37}, 4, 1, 0; 2014 WW_{252}, 6, 1, 0; 2014 WO_{338}, 4, 1, 0; 2014 WS_{505}, 3, 1, 0; 2014 XY_{30}, 2, 1, 0; 2015 OX_{77}, 2, 1, 0; 2015 RM_{108}, 2, 1, 0; (5), 8, 1, 0; (9), 4, 1, 0; (10), 2, 1, 0; (14), 6, 2, 27; (16), 2, 1, 0; (29), 2, 1, 0; (30), 4, 1, 0; (33), 4, 1, 0; (34), 4, 1, 0; (35), 2, 1, 0; (46), 5, 2, 2; (47), 5, 2, 2; (54), 9, 2, 35; (55), 4, 1, 0; (60), 5, 2, 55; (63), 2, 1, 0; (66), 3, 1, 0; (69), 16, 2, 23; (70), 9, 3, 58; (76), 18, 2, 57; (77), 6, 1, 0; (81), 7, 2, 10; (82), 6, 1, 0; (83), 4, 2, 41; (86), 8, 2, 61; (93), 7, 3, 72; (94), 7, 3, 62; (96), 3, 1, 0; (98), 6, 1, 0; (103), 12, 3, 16; (105), 4, 1, 0; (112), 3, 1, 0; (116), 6, 1, 0; (118), 3, 1, 0; (121), 6, 1, 0; (123), 4, 1, 0; (127), 5, 2, 35; (131), 4, 1, 0; (133), 3, 1, 0; (140), 2, 1, 0; (145), 9, 1, 0; (146), 14, 3, 4; (148), 4, 1, 0; (150), 7, 2, 56; (160), 5, 1, 0; (163), 12, 3, 2; (170), 4, 1, 0; (171), 16, 4, 53; (172), 4, 1, 0; (173), 2, 1, 0; (176), 2, 1, 0; (180), 6, 1, 0; (182), 8, 2, 56; (187), 3, 1, 0; (195), 6, 1, 0; (196), 25, 5, 74; (200), 8, 1, 0; (201), 3, 1, 0; (204), 8, 1, 0; (205), 8, 2, 70; (206), 8, 1, 0; (210), 3, 1, 0; (218), 4, 1, 0; (221), 2, 1, 0; (222), 5, 1, 0; (225), 2, 1, 0; (230), 6, 1, 0; (238), 2, 1, 0; (252), 6, 2, 1; (255), 9, 2, 1; (256), 12, 2, 12; (258), 6, 1, 0; (269), 3, 1, 0; (273), 4, 1, 0; (274), 11, 1, 0; (279), 10, 1, 0; (297), 7, 2, 9; (299), 5, 1, 0; (313), 7, 3, 16; (315), 2, 1, 0; (317), 16, 1, 0; (320), 4, 1, 0; (325), 5, 2, 9; (327), 4, 1, 0; (329), 4, 1, 0; (332), 5, 2, 12; (342), 4, 1, 0; (343), 6, 1, 0; (351), 6, 1, 0; (352), 28, 4, 63; (358), 5, 1, 0; (362), 9, 1, 0; (368), 10, 3, 84; (369), 9, 1, 0; (373), 5, 2, 1; (382), 7, 2, 66; (383), 6, 1, 0; (387), 6, 2, 2; (389), 4, 1, 0;

(394), 5, 1, 0; (407), 6, 1, 0; (408), 11, 2, 10; (409), 5, 1, 0; (412), 2, 1, 0; (414), 6, 2, 35; (415), 6, 1, 0; (423), 13, 2, 64; (424), 22, 5, 16; (433), 11, 1, 0; (439), 9, 3, 40; (445), 6, 1, 0; (450), 3, 1, 0; (452), 4, 1, 0; (465), 2, 1, 0; (470), 2, 1, 0; (472), 11, 3, 16; (476), 11, 1, 0; (483), 5, 1, 0; (485), 2, 1, 0; (493), 12, 4, 72; (498), 22, 6, 76; (501), 8, 2, 6; (503), 8, 1, 0; (513), 2, 1, 0; (517), 5, 1, 0; (530), 4, 1, 0; (534), 10, 3, 12; (541), 2, 1, 0; (549), 2, 1, 0; (557), 6, 1, 0; (563), 5, 1, 0; (567), 2, 1, 0; (568), 7, 2, 18; (569), 9, 2, 28; (576), 16, 3, 96; (583), 2, 1, 0; (584), 5, 2, 1; (589), 3, 1, 0; (590), 12, 1, 0; (593), 8, 2, 65; (596), 6, 1, 0; (598), 4, 1, 0; (610), 6, 1, 0; (618), 14, 1, 0; (619), 2, 1, 0; (624), 14, 4, 62; (627), 6, 1, 0; (635), 4, 1, 0; (639), 2, 1, 0; (656), 8, 3, 4; (660), 6, 2, 54; (669), 4, 1, 0; (672), 16, 4, 3; (674), 6, 1, 0; (676), 2, 1, 0; (678), 3, 1, 0; (683), 10, 3, 2; (693), 4, 1, 0; (694), 12, 1, 0; (705), 5, 1, 0; 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(350082), 2, 1, 0; (350404), 2, 1, 0; (350988), 6, 2, 1; (351407), 3, 1, 0; (353681), 2, 1, 0; (354673), 14, 1, 0; (355264), 3, 1, 0; (355351), 12, 1, 0; (357094), 2, 1, 0; (357637), 6, 1, 0; (358680), 4, 1, 0; (359938), 2, 1, 0; (360314), 2, 1, 0; (360329), 8, 1, 0; (360334), 2, 1, 0; (360588), 5, 1, 0; (360849), 4, 1, 0; (360868), 9, 1, 0; (361407), 5, 1, 0; (362155), 2, 1, 0; (362555), 9, 1, 0; (362601), 2, 1, 0; (363132), 11, 1, 0; (363864), 6, 1, 0; (363865), 8, 1, 0; (364446), 6, 1, 0; (364447), 3, 1, 0; (364452), 2, 1, 0; (364775), 5, 1, 0; (365580), 2, 1, 0; (365728), 2, 1, 0; (368267), 2, 1, 0; (369770), 3, 1, 0; (370273), 2, 1, 0; (371801), 4, 1, 0; (373145), 2, 1, 0; (373511), 5, 1, 0; (373684), 2, 1, 0; (374068), 4, 1, 0; (375076), 2, 1, 0; (379970), 1, 1, 0; (380219), 6, 1, 0; (381215), 2, 1, 0; (385262), 3, 1, 0; (387564), 1, 1, 0; (388030), 6, 1, 0; (388865), 9, 1, 0; (389828), 6, 1, 0; (392331), 2, 1, 0; (393803), 4, 1, 0; (393804), 2, 1, 0; (395312), 11, 1, 0; (395371), 5, 1, 0; (395385), 3, 1, 0; (396596), 2, 1, 0; (397237), 2, 1, 0; (397372), 3, 1, 0; (397476), 9, 1, 0; (398327), 3, 1, 0; (399356), 2, 1, 0; (401593), 16, 1, 0; (402571), 6, 1, 0; (403057), 3, 1, 0; (404547), 1, 1, 0; (405021), 6, 1, 0; (405022), 8, 2, 49; (405035), 4, 1, 0; (406087), 6, 1, 0; (408826), 7, 1, 0; (409438), 2, 1, 0; (410514), 5, 1, 0; (411357), 2, 1, 0; (411370), 2, 1, 0; (412638), 6, 1, 0; (413368), 3, 1, 0; (413378), 3, 1, 0; (413502), 6, 2, 23; (414764), 6, 1, 0; (414900), 2, 1, 0; (415524), 3, 1, 0; (415886), 8, 1, 0; (415930), 5, 1, 0; (416595), 4, 2, 12; (416909), 3, 1, 0; (417348), 3, 1, 0; (418929), 3, 1, 0; (419015), 9, 1, 0; (420784), 2, 1, 0; (425293), 1, 1, 0; (427471), 3, 1, 0; (440904), 7, 2, 6; (441860), 1, 1, 0; (445267), 2, 1, 0; (447175), 18, 2, 48; (448142), 2, 1, 0; (452281), 2, 1, 0; (452651), 2, 1, 0; (453786), 6, 1, 0; (455050), 1, 1, 0; (455575), 14, 2, 23; (455578), 2, 1, 0; (455758), 2, 1, 0; (456235), 4, 1, 0; (456520), 3, 1, 0; (456633), 3, 1, 0; (456701), 2, 1, 0; (457782), 1, 1, 0; (458287), 5, 1, 0; (465889), 2, 1, 0; (466298), 3, 1, 0; (481542), 8, 1, 0; (481893), 4, 1, 0; (485374), 8, 1, 0; (488512), 5, 1, 0; (488533), 6, 1, 0; (491512), 3, 1, 0; (517741), 1, 1, 0; (518640), 4, 1, 0; *[44426, 8110, 0*, 2018/03/20–2018/09/19]*

Z33 6ROADS Observatory 2, Nerpio

M. Gedek, Kreta 8, Oborniki, wielkopolskie, 64-600, Poland [idgrasil@gmail.com]
Observers M. Gedek, R. Reszelewski
Measurer R. Reszelewski
0.4-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
(32094), 3, 1, 0; (34911), 3, 1, 0; (36781), 6, 2, 1; (53983), 6, 2, 1; (65755), 3, 1, 0; (67376), 6, 2, 1; (96826), 3, 1, 0; (111270), 6, 2, 1; (153759), 3, 1, 0; (182584), 6, 2, 1; (191858), 3, 1, 0; (224533), 3, 1, 0; (428111), 2, 1, 0; *[53, 13, 0*, 2017/10/26–2017/10/27]*

Z34 NNHS Drummonds Observatory

S. J. Arnold, 7 Stable lane, Pitsford, Northampton NN6 9NG, United Kingdom [stevensallyra1@aol.com]
UCAC-4
UCAC-4
(654), 5, 1, 0; (831), 14, 2, 1; (879), 4, 1, 0; (983), 6, 1, 0; (1006), 6, 1, 0; (1505), 5, 1, 0; (1543), 3, 1, 0; (1942), 3, 1, 0; (2444), 6, 1, 0; (2649), 5, 1, 0; (3965), 3, 1, 0; (5833), 5, 1, 0; (6163), 4, 1, 0; (6425), 14, 2, 4; (6882), 4, 1, 0; (7102), 3, 1, 0; (14362), 4, 1, 0; (28861), 2, 1, 0; (31497), 3, 1, 0; (45571), 3, 1, 0; (49395), 5, 1, 0; *[107, 21, 0*, 2018/08/05–2018/09/17]*

Z35 OAO University Observatory Station Aras

À. López G., Ramon Gordillo 7-p.13, Valencia 46010, Spain [alvaro.lopez@uv.es]
Observers V. Peris, O. Brevia
Measurer À. López G.
USNO-SA2.0
(719), 18, 6, 27; (1627), 5, 2, 1; (7889), 6, 2, 1; (13553), 18, 6, 29; (14402), 5, 2, 1; (15745), 13, 5, 32; (66391), 6, 2, 1; (68347), 9, 3, 2; (68950), 15, 5, 29; (138847), 20, 7, 32; (139345), 6, 2, 1; (189973), 2, 1, 0; (441987), 5, 2, 1; (455550), 12, 4, 27; *[140, 14, 0*, 2018/06/16–2018/07/19]*

Z36 Cancelada

J. F. Calvo, Avenida Marques del Duero 64, Cancelada, Estepona, Málaga 29688, Spain [calvospainfernandez@gmail.com]
UCAC-4
UCAC-4
(66391), 3, 1, 0; (469737), 3, 1, 0; *[6, 2, 0*, 2018/06/21–2018/06/27]*

Z43 Landehen

C. Ratinaud, 14 allee des ajoncs d or, 22400 Landehen, France [kuzhadur@gmail.com]
0.25-m $f/4.7$ reflector + CCD + GPS-tagged video
Gaia-DR2, UCAC-4
1998 SD_9, 5, 1, 0; 2011 GA_{62}, 6, 1, 0; 2015 DP_{155}, 5, 1, 0; 2015 FP_{118}, 7, 1, 0; 2015 QM_3, 3, 1, 0; 2017 YE_5, 5, 1, 0; 2018 LQ_2, 11, 3, 32; 2018 MG_7, 6, 1, 0; 2018 MR_8, 5, 1, 0; 2018 NV, 25, 4, 5; 2018 PW_7, 3, 1, 0; 2018 PJ_{10}, 4, 1, 0; 2018 PN_{20}, 3, 1, 0; 2018 PK_{23}, 3, 1, 0; 2018 QU_1, 9, 1, 0; 2018 QV_1, 4, 1, 0; 2018 RD_5, 2, 1, 0; 2018 RP_8, 5, 1, 0; (719), 11, 2, 24; (2061), 5, 1, 0; (13553), 6, 1, 0; (66391), 7, 1, 0; (68950), 11, 2, 37; (86324), 7, 1, 0; (138847), 43, 9, 78; (139289), 2, 1, 0; (139345), 16, 3, 26; (140039), 10, 3, 24; (162168), 30, 7, 67; (176231), 3, 1, 0; (283729), 11, 2, 2; (322097), 2, 1, 0; (414960), 5, 1, 0; (469737), 6, 1, 0; (481394), 14, 3, 14; (518635), 3, 1, 0; *[303, 36, 0*, 2018/05/27–2018/09/16]*

Z45 Cosmos Observatory, Marbella

F. J. C. Naranjo, Urb.Bello Horizonte 3, Fase-1, N-25, Marbella, Málaga 29603, Spain [mjjfran@gmail.com]
Observer F. Jackson
0.35-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2009 RO_{47}, 4, 2, 1; (13553), 3, 1, 0; (15745), 2, 1, 0; (18109), 3, 1, 0; (86324), 3, 1, 0; (217985), 4, 2, 1; (283729), 3, 1, 0; (438429), 3, 1, 0; *[25, 8, 0*, 2018/06/22–2018/09/05]*

Z52 The Studios Observatory, Grantham

S. C. Percy, 31 Ipswich Gardens, Grantham, UK, NG31 8SE, United Kingdom [mail@opussoftware.co.uk]
0.36-m $f/7.0$ Schmidt-Cassegrain + CCD
Gaia-DR1, Gaia-DR2
(4221), 17, 5, 15; (6456), 17, 5, 32; (13553), 76, 25, 88; *[110, 3, 0*, 2018/05/26–2018/09/17]*

Z59 Chelford Observatory

G. Williams, 20 Broomfield Close, Chelford, Macclesfield, Cheshire SK11 9SL, United Kingdom [geoffw2000@outlook.com]
0.11-m Refractor + CCD
UCAC-4
(739), 4, 2, 1; (2014), 4, 2, 1; *[8, 2, 0*, 2018/06/26–2018/06/30]*

Z64 Observatorio el Miron del Cielo

V. Perez-Vazquez, Alfredo Brañas, 62 Oursensem, 32001, Spain [elmirondelcielo@gmail.com]
0.20-m $f/10$ Cassegrain + CCD
UCAC-4, Gaia-DR1
(502), 4, 1, 0; (1627), 4, 1, 0; *[8, 2, 0*, 2018/06/14–2018/06/18]*

Z71 Observatorio Norba Caesarina, Aldea Moret

F. Violat-Bordonau, Pz. 1 de mayo, Bloque 3-2B, 10195 Aldea Moret, Caceres, Spain [fviolat@yahoo.es]
0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
Gaia-DR1
(273), 6, 2, 9; (287), 3, 1, 0; (304), 9, 3, 21; (351), 3, 1, 0; (360), 15, 5, 28; (411), 3, 1, 0; (472), 6, 2, 2; (600), 3, 1, 0; (634), 3, 1, 0; (660), 6, 2, 6; (679), 3, 1, 0; (729), 3, 1, 0; (747), 3, 1, 0;

(751), 3, 1, 0; (756), 3, 1, 0; (783), 6, 2, 21; (814), 3, 1, 0; (907), 3, 1, 0; (912), 3, 1, 0; (924), 3, 1, 0; (1093), 3, 1, 0; (1627), 6, 2, 2; (136108), 36, 12, 14; (136472), 21, 7, 26; *[156, 24, 0*, 2018/06/02–2018/07/13]*

Z80 Northolt Branch Observatory
G. Wells, Flat 5, 44 Dabbs Hill Lane, Northolt, Middlesex, UB5 4AG, England [northoltbranchastro@hotmail.com]
Observer G. Wells
Measurers D. Bamberger, G. Wells
0.25-m $f/8.0$ Ritchey-Chrétien + CCD
Gaia-DR1, UCAC-4, Gaia-DR2
1998 SD_9, 4, 1, 0; 2002 OS_4, 4, 1, 0; 2011 GA_{62}, 21, 3, 30; 2011 UA, 5, 1, 0; 2012 OD_1, 19, 3, 11; 2015 DP_{155}, 51, 4, 9; 2015 FP_{118}, 41, 4, 3; 2016 NF_{23}, 9, 2, 2; 2017 YE_5, 30, 3, 4; 2018 EJ_4, 32, 3, 6; 2018 GA_5, 5, 2, 19; 2018 JK_3, 2, 1, 0; 2018 KE_3, 10, 1, 0; 2018 LK, 12, 2, 6; 2018 LQ_2, 14, 2, 1; 2018 LQ_3, 4, 1, 0; 2018 MX_6, 3, 1, 0; 2018 MG_7, 31, 3, 3; 2018 MM_8, 3, 1, 0; 2018 MR_8, 15, 3, 8; 2018 NA, 3, 1, 0; 2018 NB, 16, 2, 22; 2018 NQ, 8, 2, 1; 2018 NV, 19, 2, 2; 2018 NX, 3, 1, 0; 2018 NE_1, 3, 1, 0; 2018 NU_3, 6, 2, 7; 2018 NF_4, 3, 1, 0; 2018 NL_4, 3, 1, 0; 2018 OW, 3, 1, 0; 2018 PU_7, 3, 1, 0; 2018 PM_{10}, 6, 1, 0; 2018 QA_1, 7, 1, 0; 2018 QG_1, 3, 1, 0; 2018 QU_1, 6, 1, 0; 2018 RA, 3, 1, 0; 2018 RC, 26, 3, 2; 2018 RQ, 3, 1, 0; 2018 RR, 3, 1, 0; 2018 RD_1, 3, 1, 0; 2018 RQ_2, 8, 2, 3; 2018 RD_5, 6, 1, 0; 2018 RO_5, 2, 1, 0; 2018 RT_5, 5, 1, 0; 2018 RF_8, 7, 1, 0; 2018 RP_8, 4, 1, 0; 2018 SC, 6, 1, 0; (433), 16, 1, 0; (617), 20, 2, 2; (2061), 10, 1, 0; (3552), 6, 1, 0; (9929), 4, 1, 0; (10463), 5, 1, 0; (13553), 12, 1, 0; (17274), 7, 1, 0; (25345), 3, 1, 0; (66391), 6, 1, 0; (68347), 36, 4, 20; (86324), 9, 1, 0; (134340), 5, 1, 0; (138847), 5, 1, 0; (139345), 20, 4, 42; (144332), 24, 3, 13; (153957), 18, 2, 7; (162168), 10, 2, 29; (162483), 5, 1, 0; (163619), 3, 1, 0; (441987), 10, 1, 0; (467309), 10, 1, 0; *[727, 69, 0*, 2018/05/27–2018/09/17]*

Z92 West Park Observatory, Leeds
A. R. Pratt, 76 Latchmere View, Leeds, West Yorkshire, LS16 5DT, England [alexander.pratt@btinternet.com]
0.28-m $f/10$ Schmidt-Cassegrain + CCD + $f/3.3$ focal reducer
UCAC-4
2015 FP_{118}, 10, 2, 1; (66391), 7, 2, 5; (144332), 3, 1, 0; *[20, 3, 0*, 2018/05/31–2018/09/12]*

ORBITAL ELEMENTS

Orbital elements have been computed and identifications found by the following contributors:

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MPCALB (entirely automated processing on MPC computer ALBERT)
MPCAPO (entirely automated processing on MPC computer APOLLO)
MPCLINUX (entirely automated processing on MPC Linux cluster)
MPCMEL (entirely automated processing on MPC computer MELETE)

C/2010 B1 (Cardinal)
Epoch 2011 Feb. 8.0 TT = JDT 2455600.5

				MPCW	
T	2011 Feb. 7.08115 TT				
q	2.9414626		(2000.0)	**P**	**Q**
z	+0.0003308	ω	211.52594	+0.00060807	+0.24113713
		Ω	277.21359	+0.99183934	−0.12387584
e	0.9990270	i	101.97627	−0.12749256	−0.96255268

From 1995 observations 2010 Jan. 19–2012 Oct. 3, mean residual 0″.4.
Nongravitational parameters $A_1 = -57.04$, $A_2 = -23.0263$.

C/2010 S1 (LINEAR)
Epoch 2013 May 28.0 TT = JDT 2456440.5

				MPCW	
T	2013 May 20.29758 TT				
q	5.8999043		(2000.0)	**P**	**Q**
z	−0.0003256	ω	118.61456	+0.53547247	−0.22396545
	±0.0000001	Ω	93.43035	−0.69559918	−0.66377836
e	1.0019207	i	125.33578	+0.47896869	−0.71360897

From 8097 observations 2010 Sept. 21–2015 July 19, mean residual 0″.5.

C/2010 U3 (Boattini)
Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

				MPCW	
T	2019 Feb. 26.62634 TT				
q	8.4455076		(2000.0)	**P**	**Q**
z	+0.0001968	ω	88.08657	−0.36205058	−0.74305519
	±0.0000004	Ω	43.06729	+0.07255615	−0.62443448
e	0.9983382	i	55.51175	+0.92933039	−0.24072924

From 1440 observations 2009 Sept. 16–2018 Sept. 12, mean residual 0″.6.

C/2011 KP_{36} (Spacewatch)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 26.89719 TT				
q	4.8833081		(2000.0)	**P**	**Q**
z	+0.0260346	ω	180.59783	+0.99445340	+0.09830680
	±0.0000000	Ω	173.40039	−0.09509842	+0.99227938
e	0.8728650	i	18.98677	−0.04493019	+0.07561350

From 3249 observations 2011 May 21–2018 Aug. 23, mean residual 0″.4.

C/2012 K6 (McNaught)
Epoch 2013 May 28.0 TT = JDT 2456440.5

				MPCW	
T	2013 May 21.49613 TT				
q	3.3530816		(2000.0)	**P**	**Q**
z	+0.0001569	ω	338.83322	−0.71568380	−0.62148153
	±0.0000003	Ω	206.89893	−0.49561734	+0.13042472
e	0.9994738	i	135.21936	−0.49209770	+0.77249602

From 1043 observations 2012 Apr. 20–2015 Apr. 9, mean residual 0″.4.

C/2013 C2 (Tenagra)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Aug. 30.29240 TT				
q	9.1309845		(2000.0)	**P**	**Q**
n	0.01531313	ω	308.79078	−0.91035129	+0.24124220
a	16.0605350	Ω	247.52490	−0.16366904	−0.95614985
e	0.4314645	i	21.33909	−0.38009601	−0.16607125
P	64.36				

From 428 observations 2013 Feb. 14–2018 July 2, mean residual 0″.5.

C/2013 P3 (Palomar)
Epoch 2014 Dec. 9.0 TT = JDT 2457000.5
T 2014 Nov. 23.83160 TT MPCW

				P	Q
q	8.6465423		(2000.0)		
z	−0.0001404	ω	177.18375	+0.99782244	+0.04583976
	±0.0000007	Ω	177.27541	−0.05998785	+0.33180680
e	1.0012142	i	93.91037	+0.02741950	−0.94223297

From 472 observations 2013 Aug. 8–2018 June 24, mean residual 0″.4.

C/2013 V4 (Catalina)
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5
T 2015 Oct. 7.60022 TT MPCW

				P	Q
q	5.1854146		(2000.0)		
z	−0.0004980	ω	40.44922	+0.22786115	−0.60307972
	±0.0000002	Ω	55.62129	+0.46389290	−0.62303001
e	1.0025822	i	67.85538	+0.85608567	+0.49812495

From 2327 observations 2013 Oct. 23–2018 Aug. 6, mean residual 0″.5.

C/2013 X1 (PANSTARRS)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Apr. 20.72560 TT MPCW

				P	Q
q	1.3142723		(2000.0)		
z	−0.0007441	ω	164.45798	+0.82526303	−0.52102791
		Ω	130.95604	−0.54401871	−0.62986009
e	1.0009780	i	163.23189	−0.15160664	−0.57602620

From 3130 observations 2014 Jan. 28–2018 Jan. 29, mean residual 0″.7.
Nongravitational parameters $A_1 = +2.26$, $A_2 = +0.3211$, $A_3 = -0.6616$.

C/2014 B1 (Schwartz)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Sept. 10.53585 TT MPCW

				P	Q
q	9.5565835		(2000.0)		
z	−0.0003919	ω	345.84175	−0.85029340	−0.50400148
	±0.0000006	Ω	161.39561	+0.51719120	−0.85353268
e	1.0037451	i	28.37229	+0.09754177	+0.13215324

From 790 observations 2014 Jan. 28–2018 June 6, mean residual 0″.4.

C/2014 OE$_4$ (PANSTARRS)
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5
T 2016 Dec. 10.75047 TT MPCW

				P	Q
q	6.2443006		(2000.0)		
z	+0.0000874	ω	65.74347	−0.08368126	+0.50406432
	±0.0000002	Ω	240.40004	−0.74841432	+0.53775636
e	0.9994546	i	81.34886	+0.65793119	+0.67582340

From 1516 observations 2014 May 8–2018 Sept. 14, mean residual 0″.4.

C/2014 Q2 (Lovejoy)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5
T 2015 Jan. 30.06921 TT MPCW

				P	Q
q	1.2903577		(2000.0)		
z	+0.0017090	ω	12.39491	−0.12073167	−0.14528982
	±0.0000001	Ω	94.97559	+0.80568068	−0.59223981
e	0.9977948	i	80.30212	+0.57991595	+0.79255465

From 7076 observations 2014 July 1–2016 Sept. 10, mean residual 0″.5.

C/2014 R3 (PANSTARRS)
Epoch 2016 July 31.0 TT = JDT 2457600.5
T 2016 Aug. 7.89507 TT MPCW

				P	Q
q	7.2753977		(2000.0)		
z	+0.0000140	ω	113.40103	−0.36316575	−0.82311736
	±0.0000005	Ω	334.11215	−0.21699492	+0.53039142
e	0.9998983	i	90.83748	+0.90610366	−0.20288605

From 726 observations 2014 Sept. 6–2018 June 22, mean residual 0″.5.

C/2015 ER$_{61}$ (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 9.94359 TT MPCW

				P	Q
q	1.0421358		(2000.0)		
z	+0.0025762	ω	68.19279	+0.54600663	+0.83284293
	±0.0000001	Ω	235.22112	−0.80369409	+0.49009419
e	0.9973152	i	6.34878	−0.23654297	+0.25725540

From 2617 observations 2015 Jan. 21–2018 Mar. 24, mean residual 0″.6.

C/2015 H2 (PANSTARRS)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Sept. 13.24922 TT MPCW

				P	Q
q	4.9672204		(2000.0)		
z	−0.0006679	ω	287.90524	+0.17535708	+0.98040502
	±0.0000007	Ω	350.69188	−0.55230759	+0.02249603
e	1.0033177	i	33.70512	−0.81498848	+0.19570367

From 163 observations 2014 May 19–2018 Sept. 14, mean residual 0″.6.

C/2015 LC$_2$ (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5
T 2015 May 1.60930 TT MPCW

				P	Q
q	5.8905670		(2000.0)		
z	−0.0003298	ω	341.82638	−0.67450129	−0.26845920
	±0.0000012	Ω	223.56558	−0.49041315	−0.53339628
e	1.0019430	i	93.71811	−0.55185410	+0.80213344

From 357 observations 2015 June 7–2018 Aug. 17, mean residual 0″.6.

C/2015 O1 (PANSTARRS)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5
T 2018 Feb. 19.02223 TT MPCW

				P	Q
q	3.7296322		(2000.0)		
z	+0.0000052	ω	89.59240	−0.52093684	−0.50153489
		Ω	299.85563	−0.59865392	+0.79147741
e	0.9999806	i	127.21106	+0.60847210	+0.34932259

From 3068 observations 2015 June 15–2018 Aug. 16, mean residual 0″.4.
Nongravitational parameters $Y_1 = +8.06$, $Y_2 = -2.1154$.

C/2015 T2 (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 20.44934 TT MPCW

				P	Q
q	6.9353622		(2000.0)		
z	−0.0000515	ω	30.76253	+0.76567329	+0.05755549
	±0.0000008	Ω	51.06043	+0.27838130	−0.92753107
e	1.0003575	i	124.54725	+0.57986917	+0.36928779

From 181 observations 2015 Oct. 9–2018 Aug. 20, mean residual 0″.4.

C/2015 V1 (PANSTARRS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2017 Dec. 17.73632 TT MPCW

				P	Q
q	4.2667894		(2000.0)		
z	−0.0001230	ω	179.63915	+0.95387963	+0.22988599
	±0.0000003	Ω	197.19416	+0.27375653	−0.40230219
e	1.0005249	i	139.22913	+0.12317066	−0.88617458

From 1956 observations 2015 Nov. 2–2018 Sept. 18, mean residual 0″.5.

C/2015 V2 (Johnson)
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 June 12.33929 TT MPCW

				P	Q
q	1.6369838		(2000.0)		
z	−0.0010452	ω	164.89539	−0.49024366	+0.49432042
		Ω	69.84900	−0.85774618	−0.12744018
e	1.0017109	i	49.87640	−0.15470180	−0.85988739

From 5606 observations 2015 Jan. 11–2018 Sept. 3, mean residual 0″.4.
Nongravitational parameters $A_1 = +2.66$, $A_2 = -0.7098$.

C/2015 VL$_{62}$ (Lemmon-Yeung-PANSTARRS)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Aug. 28.59758 TT MPCW

				P	Q
q	2.7203003		(2000.0)		
z	−0.0006724	ω	128.36386	+0.80634776	−0.53708641
	±0.0000003	Ω	94.55068	−0.58984730	−0.69954020
e	1.0018291	i	165.61387	−0.04339880	−0.47136154

From 1975 observations 2015 Nov. 2–2018 July 15, mean residual 0″.5.

C/2015 X5 (PANSTARRS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2017 Dec. 31.02648 TT MPCW

				P	Q
q	6.8017447		(2000.0)		
z	−0.0004891	ω	27.75209	−0.25136266	+0.67028907
	±0.0000007	Ω	122.31452	+0.66183385	−0.40735757
e	1.0033269	i	124.29091	+0.70625263	+0.62030023

From 180 observations 2015 Dec. 6–2018 Sept. 16, mean residual 0″.5.

C/2016 A1 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 23.37193 TT MPCW

				P	Q
q	5.3277681		(2000.0)		
z	−0.0003736	ω	10.32027	−0.53513304	+0.51121001
	±0.0000004	Ω	128.17453	+0.70123299	−0.17512417
e	1.0019903	i	121.18575	+0.47106785	+0.84142489

From 1625 observations 2016 Jan. 1–2018 Sept. 12, mean residual 0″.4.

C/2016 M1 (PANSTARRS)
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5
T 2018 Aug. 10.17445 TT MPCW

				P	Q
q	2.2104774		(2000.0)		
z	+0.0004151	ω	209.82661	+0.02468511	−0.03424890
	±0.0000002	Ω	92.20355	−0.59784981	+0.80049595
e	0.9990824	i	90.99970	−0.80122796	−0.59835879

From 2757 observations 2016 June 22–2018 Sept. 7, mean residual 0″.4.

C/2016 N4 (MASTER)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Sept. 16.59728 TT MPCW

				P	Q
q	3.1991120		(2000.0)		
z	+0.0001927	ω	55.95530	+0.58263153	−0.80665942
	±0.0000004	Ω	354.03139	−0.14120886	+0.01973065
e	0.9993836	i	72.55728	+0.80037526	+0.59068712

From 1718 observations 2015 Sept. 11–2018 Aug. 17, mean residual 0″.5.

C/2016 N6 (PANSTARRS)
Epoch 2018 July 21.0 TT = JDT 2458320.5
T 2018 July 18.21024 TT MPCW

				P	Q
q	2.6690752		(2000.0)		
z	+0.0004659	ω	162.80571	−0.53335037	+0.08479498
	±0.0000002	Ω	298.97627	+0.61778684	+0.71869488
e	0.9987564	i	105.83228	+0.57782074	−0.69013585

From 2283 observations 2016 June 27–2018 Sept. 16, mean residual 0″.4.

C/2016 Q2 (PANSTARRS)
Epoch 2021 May 26.0 TT = JDT 2459360.5
T 2021 May 11.87132 TT MPCW

				P	Q
q	7.0815771		(2000.0)		
z	−0.0001024	ω	84.53111	−0.12670078	−0.80692679
	±0.0000030	Ω	322.29578	−0.66686677	+0.49983784
e	1.0007252	i	109.38844	+0.73432665	+0.31469237

From 83 observations 2016 Aug. 26–2018 Aug. 19, mean residual 0″.5.

C/2016 R2 (PANSTARRS)
Epoch 2018 May 2.0 TT = JDT 2458240.5
T 2018 May 9.58472 TT MPCW

				P	Q
q	2.6023594		(2000.0)		
z	+0.0014030	ω	33.19260	−0.14726926	−0.52443222
	±0.0000003	Ω	80.56881	+0.61562102	−0.71221786
e	0.9963490	i	58.22367	+0.77415924	+0.46660108

From 2962 observations 2016 Aug. 30–2018 Sept. 18, mean residual 0″.5.

C/2017 AB$_5$ (PANSTARRS)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5
T 2018 Feb. 18.12386 TT MPCW

				P	Q
q	9.2162247		(2000.0)		
z	+0.0000097	ω	78.40857	−0.41291755	−0.83503584
	±0.0000030	Ω	42.68962	+0.47362278	−0.53788141
e	0.9999105	i	32.43083	+0.77793352	−0.11575290

From 72 observations 2017 Jan. 3–2018 Apr. 18, mean residual 0″.4.

C/2017 B3 (LINEAR)
Epoch 2019 Feb. 6.0 TT = JDT 2458520.5
T 2019 Feb. 2.50264 TT MPCW

				P	Q
q	3.9211598		(2000.0)		
z	−0.0005407	ω	284.74950	+0.27591192	+0.96068915
	±0.0000008	Ω	2.17729	−0.19811221	+0.08820114
e	1.0021201	i	54.17879	−0.94054461	+0.26324308

From 307 observations 2016 Apr. 1–2018 Aug. 29, mean residual 0″.4.

C/2017 D2 (Barros)
Epoch 2017 July 26.0 TT = JDT 2457960.5
T 2017 July 14.53247 TT MPCW

				P	**Q**
q	2.4858688		(2000.0)		
z	+0.0007299	ω	334.33930	+0.60946351	+0.75193654
	±0.0000009	Ω	331.04190	−0.60815136	+0.24005768
e	0.9981855	i	31.26573	−0.50863165	+0.61397374

From 404 observations 2017 Feb. 23–2018 Sept. 17, mean residual 0″.5.

C/2017 D3 (ATLAS)
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 Apr. 26.86961 TT MPCW

				P	**Q**
q	4.9713517		(2000.0)		
z	−0.0004262	ω	340.77250	−0.91588997	−0.39040322
	±0.0000010	Ω	186.60252	−0.16806197	+0.16152801
e	1.0021188	i	125.64428	−0.36455554	+0.90636308

From 456 observations 2017 Feb. 10–2018 July 13, mean residual 0″.5.

C/2017 E3 (PANSTARRS)
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 May 31.56568 TT MPCW

				P	**Q**
q	5.9152569		(2000.0)		
z	−0.0008430	ω	333.66301	−0.77474187	−0.14232774
	±0.0000010	Ω	220.75856	−0.26822084	−0.80833925
e	1.0049865	i	70.66503	−0.57256670	+0.57125343

From 402 observations 2017 Mar. 7–2018 Aug. 11, mean residual 0″.5.

C/2017 F1 (Lemmon)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Dec. 1.00209 TT MPCW

				P	**Q**
q	4.4997840		(2000.0)		
z	−0.0009797	ω	64.81763	−0.12301059	+0.97200012
	±0.0000060	Ω	158.74250	+0.58787043	−0.09116773
e	1.0044083	i	146.48105	+0.79954784	+0.21657381

From 81 observations 2017 Mar. 20–2018 Feb. 17, mean residual 0″.5.

C/2017 F2 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 26.31245 TT MPCW

				P	**Q**
q	6.9277348		(2000.0)		
z	−0.0007775	ω	134.91186	−0.87743754	−0.22775562
	±0.0000037	Ω	38.66777	−0.22107970	−0.58904760
e	1.0053865	i	42.50779	+0.42570781	−0.77533883

From 57 observations 2017 Mar. 31–2018 June 7, mean residual 0″.5.

C/2017 K1 (PANSTARRS)
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5
T 2018 Mar. 14.21764 TT MPCW

				P	**Q**
q	7.2856165		(2000.0)		
z	−0.0003366	ω	4.16349	−0.74395190	−0.59022376
	±0.0000019	Ω	225.64222	−0.62505235	+0.44882442
e	1.0024521	i	154.00952	−0.23631574	+0.67096390

From 92 observations 2017 May 21–2018 June 18, mean residual 0″.5.

C/2017 K2 (PANSTARRS)
Epoch 2022 Dec. 7.0 TT = JDT 2459920.5
T 2022 Dec. 19.65269 TT MPCW

				P	**Q**
q	1.7969523		(2000.0)		
z	−0.0004799	ω	236.19623	+0.01818159	+0.04923379
	±0.0000034	Ω	88.23528	−0.18096441	+0.98245310
e	1.0008623	i	87.56309	−0.98332157	−0.17989425

From 882 observations 2013 May 12–2018 Sept. 19, mean residual 0″.5.

C/2017 K4 (ATLAS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2018 Jan. 8.03361 TT MPCW

				P	**Q**
q	2.6480763		(2000.0)		
n	0.00661440	ω	15.10906	+0.68514209	+0.68369771
a	28.1066612	Ω	298.89768	−0.69452669	+0.50918620
e	0.9057847	i	16.67901	−0.21957459	+0.52276845

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From 343 observations 2017 May 26–2018 Sept. 18, mean residual 0″.4.

C/2017 K6 (Jacques)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2018 Jan. 3.13776 TT MPCW

				P	**Q**
q	2.0027582		(2000.0)		
z	+0.0008915	ω	303.83888	+0.49565853	−0.22851032
	±0.0000012	Ω	85.05440	+0.75134608	+0.59675908
e	0.9982146	i	57.25102	−0.43566236	+0.76919545

From 355 observations 2017 May 29–2018 Aug. 24, mean residual 0″.5.

C/2017 M4 (ATLAS)
Epoch 2019 Feb. 6.0 TT = JDT 2458520.5
T 2019 Jan. 18.19052 TT MPCW

				P	**Q**
q	3.2517445		(2000.0)		
z	−0.0007082	ω	167.62230	−0.34655544	−0.32821601
	±0.0000003	Ω	65.86708	−0.92163421	+0.29352194
e	1.0023030	i	105.65769	−0.17461304	−0.89784137

From 2516 observations 2017 June 16–2018 Sept. 18, mean residual 0″.4.

C/2017 M5 (TOTAS)
Epoch 2018 June 11.0 TT = JDT 2458280.5
T 2018 June 2.96998 TT MPCW

				P	**Q**
q	5.9895889		(2000.0)		
z	−0.0006437	ω	92.66091	+0.60571552	+0.77903794
	±0.0000064	Ω	216.26224	−0.79432812	+0.58017623
e	1.0038553	i	15.88477	−0.04638475	+0.23768767

From 310 observations 2016 May 30–2018 Sept. 17, mean residual 0″.7.

C/2017 P2 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Dec. 6.56799 TT MPCW

				P	**Q**
q	2.4617662		(2000.0)		
z	+0.0008126	ω	132.24062	+0.53240058	+0.82456028
	±0.0000051	Ω	165.54619	−0.80185520	+0.41878812
e	0.9979997	i	50.08491	+0.27125240	−0.38041669

From 49 observations 2017 Aug. 14–2018 June 17, mean residual 0″.3.

C/2017 S3 (PANSTARRS)
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5
T 2018 Aug. 15.95648 TT MPCW

				P	Q
q	0.2085523		(2000.0)		
z	+0.0003161	ω	255.78201	+0.21887938	−0.96353989
		Ω	171.03523	+0.20766602	+0.20010323
e	0.9999341	i	99.03918	−0.95339742	−0.17762202

From 823 observations 2017 Aug. 17–2018 Aug. 3, mean residual 0″.8.
Nongravitational parameters $A_1 = +24.25$, $A_2 = +1.3752$.

C/2017 S7 (Lemmon)
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 May 27.99741 TT MPCW

				P	Q
q	7.6144481		(2000.0)		
z	−0.0003057	ω	187.75418	+0.19968887	+0.53587404
	±0.0000015	Ω	262.78684	+0.93753556	+0.13890711
e	1.0023274	i	124.21967	+0.28487091	−0.83279279

From 133 observations 2016 Dec. 18–2018 Sept. 15, mean residual 0″.4.

C/2017 T2 (PANSTARRS)
Epoch 2020 Apr. 21.0 TT = JDT 2458960.5
T 2020 May 4.95999 TT MPCW

				P	Q
q	1.6151310		(2000.0)		
z	+0.0002290	ω	92.99433	−0.50994502	−0.40635900
	±0.0000056	Ω	64.37735	−0.16278229	−0.81987447
e	0.9996301	i	57.23142	+0.84466444	−0.40333388

From 182 observations 2017 Sept. 15–2018 Sept. 19, mean residual 0″.3.

C/2017 T3 (ATLAS)
Epoch 2018 July 21.0 TT = JDT 2458320.5
T 2018 July 19.14764 TT MPCW

				P	Q
q	0.8254372		(2000.0)		
z	+0.0007933	ω	246.87427	+0.22871777	−0.60002603
		Ω	230.08578	+0.65987120	−0.48339256
e	0.9993452	i	88.10815	−0.71572214	−0.63741697

From 525 observations 2017 Sept. 11–2018 Sept. 6, mean residual 0″.5.
Nongravitational parameters $A_1 = +4.05$, $A_2 = +1.1997$.

A/2017 U7
Epoch 2019 Aug. 25.0 TT = JDT 2458720.5
T 2019 Sept. 11.27159 TT MPCW

				P	Q
q	6.4173094		(2000.0)		
z	−0.0001195	ω	326.03188	+0.53149243	−0.59459714
	±0.0000010	Ω	276.23302	−0.57729781	−0.77546596
e	1.0007668	i	142.63526	−0.61987340	+0.21238356

From 122 observations 2017 Aug. 18–2018 Aug. 16, mean residual 0″.3.

C/2017 W2 (Leonard)
Epoch 2017 Oct. 14.0 TT = JDT 2458040.5
T 2017 Nov. 1.90181 TT MPCW

				P	Q
q	3.9573409		(2000.0)		
n	0.01942001	ω	169.15179	−0.68705753	−0.02540201
a	13.7078618	Ω	312.80928	+0.57025826	+0.60048390
e	0.7113087	i	98.17838	+0.45028598	−0.79923327
P	50.75				

From 158 observations 2017 Nov. 26–2018 May 12, mean residual 0″.4.

P/2017 W3 (Gibbs)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5
T 2018 Feb. 25.04641 TT MPCW

				P	Q
q	3.8372631		(2000.0)		
n	0.04581824	ω	326.45682	−0.98449914	−0.07026286
a	7.7347049	Ω	210.75352	+0.09165499	−0.98729044
e	0.5038902	i	18.31670	−0.14953533	−0.14255072
P	21.51				

From 131 observations 2017 Nov. 27–2018 June 13, mean residual 0″.6.

C/2017 X1 (PANSTARRS)
Epoch 2018 June 11.0 TT = JDT 2458280.5
T 2018 June 14.50196 TT MPCW

				P	Q
q	4.6625820		(2000.0)		
n	0.00562436	ω	283.11323	−0.86073479	−0.13161862
a	31.3151040	Ω	251.12729	+0.25130371	−0.94994376
e	0.8511076	i	31.31095	−0.44269862	−0.28334325
P	175				

From 70 observations 2017 Dec. 12–2018 July 17, mean residual 0″.3.

P/2017 Y3 (Leonard)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5
T 2018 Feb. 11.25995 TT MPCW

				P	Q
q	1.2753781		(2000.0)		
n	0.03182271	ω	67.52855	−0.70382452	+0.68047780
a	9.8622930	Ω	153.87391	−0.69045241	−0.72280045
e	0.8706814	i	27.58571	+0.16705245	−0.12045529
P	30.97				

From 79 observations 2017 Dec. 26–2018 Aug. 18, mean residual 0″.5.

C/2018 A1 (PANSTARRS)
Epoch 2017 Oct. 14.0 TT = JDT 2458040.5
T 2017 Oct. 20.42504 TT MPCW

				P	Q
q	2.4193196		(2000.0)		
n	0.00773412	ω	96.38257	+0.13218361	−0.93842330
a	25.3237903	Ω	336.62276	+0.21959185	+0.34174845
e	0.9044646	i	53.55927	+0.96659553	+0.05069235
P	127				

From 113 observations 2018 Jan. 6–June 11, mean residual 0″.5.

C/2018 A3 (ATLAS)
Epoch 2018 Dec. 28.0 TT = JDT 2458480.5

				MPCW	
T	2019 Jan. 12.86409 TT				
q	3.2767184		(2000.0)	**P**	**Q**
z	+0.0020121	ω	86.42635	−0.24776744	+0.95551889
	±0.0000034	Ω	194.27937	+0.40379713	+0.25195622
e	0.9934071	i	139.56174	+0.88065837	+0.15330266

From 669 observations 2018 Jan. 10–July 13, mean residual 0″.4.

C/2018 A6 (Gibbs)
Epoch 2019 July 16.0 TT = JDT 2458680.5

				MPCW	
T	2019 July 14.28454 TT				
q	3.0179604		(2000.0)	**P**	**Q**
n	0.01638108	ω	264.52509	−0.16529309	+0.93044950
a	15.3546867	Ω	340.38600	+0.22095483	−0.28821558
e	0.8034502	i	76.95566	−0.96117488	−0.22626423
P	60.17				

From 177 observations 2018 Jan. 15–June 17, mean residual 0″.4.

C/2018 B1 (Lemmon)
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5

				MPCW	
T	2018 Mar. 30.58245 TT				
q	5.1168821		(2000.0)	**P**	**Q**
z	−0.0005817	ω	68.35564	+0.39407973	+0.89228566
	±0.0000049	Ω	133.15839	+0.69129307	−0.44571913
e	1.0029763	i	162.42298	+0.60565259	−0.07183844

From 107 observations 2017 Jan. 16–2018 Sept. 18, mean residual 0″.5.

P/2018 C1 (Lemmon-Read)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Feb. 25.54869 TT				
q	2.5957408		(2000.0)	**P**	**Q**
n	0.07486316	ω	234.32359	−0.81361975	−0.57447135
a	5.5755870	Ω	270.44988	+0.55814885	−0.72869665
e	0.5344453	i	5.13350	+0.16276597	−0.37280540
P	13.17				

From 117 observations 2018 Jan. 16–May 28, mean residual 0″.4.

C/2018 C2 (Lemmon)
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 2.22200 TT				
q	1.9565140		(2000.0)	**P**	**Q**
z	−0.0009365	ω	134.13803	−0.57781306	+0.58838382
	±0.0000008	Ω	91.13907	−0.81109404	−0.49112598
e	1.0018323	i	34.45377	+0.09087642	−0.64233928

From 1624 observations 2018 Jan. 28–Sept. 18, mean residual 0″.3.

C/2018 E1 (ATLAS)
Epoch 2018 May 2.0 TT = JDT 2458240.5

				MPCW	
T	2018 Apr. 17.32332 TT				
q	2.7054401		(2000.0)	**P**	**Q**
z	+0.0183546	ω	299.47218	−0.26852636	−0.80983449
	±0.0000000	Ω	146.84067	+0.77844270	+0.13650418
e	0.9503428	i	72.47969	−0.56738043	+0.57055649

From 163 observations 2015 Aug. 11–2018 June 14, mean residual 0″.3.

C/2018 EN$_4$ (NEOWISE)
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 7.77852 TT				
q	1.4479539		(2000.0)	**P**	**Q**
n	0.01245643	ω	35.01148	−0.64911059	+0.33062468
a	18.4306359	Ω	136.16510	+0.23897469	−0.76637967
e	0.9214377	i	81.56215	+0.72218179	+0.55077175
P	79.12				

From 69 observations 2018 Mar. 9–Aug. 9, mean residual 0″.5.

C/2018 EF$_9$ (Lemmon)
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 May 23.13007 TT				
q	1.5566299		(2000.0)	**P**	**Q**
z	+0.0015592	ω	72.61780	−0.30764081	+0.94276858
	±0.0000044	Ω	172.57784	−0.42286504	−0.25656446
e	0.9975729	i	84.69430	+0.85237450	+0.21298378

From 170 observations 2018 Mar. 9–Sept. 11, mean residual 0″.6.

C/2018 F1 (Grauer)
Epoch 2018 Dec. 28.0 TT = JDT 2458480.5

				MPCW	
T	2018 Dec. 14.07453 TT				
q	2.9931324		(2000.0)	**P**	**Q**
z	+0.0031040	ω	71.62128	−0.34607064	+0.93759040
	±0.0000032	Ω	177.29018	−0.86156670	−0.33195749
e	0.9907094	i	46.07095	+0.37139996	+0.10357835

From 160 observations 2017 Dec. 22–2018 July 16, mean residual 0″.5.

C/2018 F4 (PANSTARRS)
Epoch 2019 Dec. 23.0 TT = JDT 2458840.5

				MPCW	
T	2019 Dec. 4.09652 TT				
q	3.4397694		(2000.0)	**P**	**Q**
z	−0.0004245	ω	263.21386	−0.01433791	+0.89948378
	±0.0000104	Ω	26.50745	+0.16996655	+0.43259990
e	1.0014601	i	78.09776	−0.98534552	+0.06153252

From 176 observations 2018 Mar. 17–Aug. 10, mean residual 0″.5.

P/2018 H2 (PANSTARRS)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Jan. 23.46931 TT				
q	2.0271368		(2000.0)	**P**	**Q**
n	0.10656735	ω	120.23382	−0.98184437	+0.14721971
a	4.4060890	Ω	68.45736	−0.18525213	−0.87978070
e	0.5399238	i	7.38866	+0.04078326	−0.45200915
P	9.25				

From 163 observations 2017 Nov. 17–2018 June 12, mean residual 0″.5.

C/2018 K1 (Weiland)
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5

				MPCW	
T	2018 Apr. 6.89603 TT				
q	1.8791675		(2000.0)	**P**	**Q**
n	0.00602769	ω	325.00189	+0.40125898	−0.87579884
a	29.9021254	Ω	260.00198	−0.76591787	−0.48144284
e	0.9371561	i	164.19259	−0.50235549	+0.03448459
P	164				

From 148 observations 2017 Nov. 6–2018 July 15, mean residual 0″.6.

C/2018 KJ$_3$ (Lemmon)
Epoch 2019 Aug. 25.0 TT = JDT 2458720.5

				MPCW	
T	2019 Sept. 9.46193 TT				
q	3.6285403		(2000.0)	**P**	**Q**
z	+0.0011457	ω	217.62041	−0.42212732	−0.59328703
	±0.0000313	Ω	91.59321	−0.57126814	+0.76117454
e	0.9958427	i	136.70943	−0.70389007	−0.26196150

From 150 observations 2018 May 17–Aug. 29, mean residual 0″.4.

P/2018 L1 (PANSTARRS)
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Nov. 12.52615 TT				
q	1.8856759		(2000.0)	**P**	**Q**
n	0.14146203	ω	17.88932	+0.27905133	+0.94252048
a	3.6478989	Ω	268.62689	−0.90197682	+0.19158472
e	0.4830789	i	10.59474	−0.32949686	+0.27377079
P	6.97				

From 67 observations 2018 May 18–Sept. 6, mean residual 0″.4.

C/2018 L2 (ATLAS)
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Dec. 2.57668 TT				
q	1.7117310		(2000.0)	**P**	**Q**
z	+0.0040966	ω	56.22724	+0.03218152	+0.56732906
	±0.0000078	Ω	243.01855	−0.89266947	+0.38662549
e	0.9929877	i	67.42345	+0.44956152	+0.72708904

From 269 observations 2018 June 4–Sept. 19, mean residual 0″.6.

P/2018 L4 (PANSTARRS)
Epoch 2018 July 21.0 TT = JDT 2458320.5

				MPCW	
T	2018 July 31.84326 TT				
q	1.6762305		(2000.0)	**P**	**Q**
n	0.08991772	ω	140.43282	+0.30790899	+0.91637907
a	4.9344551	Ω	145.19283	−0.94624034	+0.32296390
e	0.6603008	i	26.62549	−0.09910239	−0.23652424
P	10.96				

From 122 observations 2018 May 19–Sept. 6, mean residual 0″.6.

P/2018 L5 (Leonard)
Epoch 2018 May 2.0 TT = JDT 2458240.5

				MPCW	
T	2018 May 4.47159 TT				
q	2.3032763		(2000.0)	**P**	**Q**
n	0.14287753	ω	93.63225	+0.67887688	+0.73384854
a	3.6237656	Ω	219.16025	−0.68803991	+0.62422495
e	0.3643970	i	2.20908	−0.25637329	+0.26797302
P	6.90				

From 121 observations 2018 June 8–Sept. 19, mean residual 0″.6.

C/2018 M1 (Catalina)
Epoch 2018 July 21.0 TT = JDT 2458320.5

				MPCW	
T	2018 July 10.02630 TT				
q	1.3035191		(2000.0)	**P**	**Q**
n	0.01001651	ω	14.13428	+0.97628680	+0.04205148
a	21.3136822	Ω	339.46564	−0.20389681	+0.50820090
e	0.9388412	i	37.25805	+0.07273356	+0.86021132
P	98.40				

From 108 observations 2018 June 25–Sept. 17, mean residual 0″.5.

C/2018 N1 (NEOWISE)
Epoch 2018 July 21.0 TT = JDT 2458320.5

				MPCW	
T	2018 Aug. 1.98810 TT				
q	1.3073276		(2000.0)	**P**	**Q**
z	+0.0033669	ω	354.56484	+0.46198786	−0.82536285
	±0.0006514	Ω	292.44108	−0.79989912	−0.54583175
e	0.9955984	i	159.44179	−0.38305170	+0.14437405

From 254 observations 2018 June 29–Sept. 16, mean residual 0″.9.

C/2018 N2 (ASASSN)
Epoch 2019 Nov. 13.0 TT = JDT 2458800.5

				MPCW	
T	2019 Nov. 11.17174 TT				
q	3.1262620		(2000.0)	**P**	**Q**
z	+0.0003683	ω	24.38123	+0.78558935	−0.45730536
	±0.0002108	Ω	25.26974	+0.27039619	−0.35215841
e	0.9988487	i	77.52303	+0.55653865	+0.81661268

From 83 observations 2018 July 7–Sept. 14, mean residual 0″.7.

C/2018 O1 (ATLAS)
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5

				MPCW	
T	2018 Aug. 31.57289 TT				
q	1.5581647		(2000.0)	**P**	**Q**
n	0.00669692	ω	162.50508	+0.23044002	−0.86926506
a	27.8752945	Ω	87.61932	−0.93693217	−0.07683122
e	0.9441023	i	154.04096	−0.26278415	−0.48833925
P	147				

From 323 observations 2018 July 15–Aug. 17, mean residual 0″.5.

P/2018 P3 (PANSTARRS)
Epoch 2018 Oct. 9.0 TT = JDT 2458400.5

				MPCW	
T	2018 Oct. 9.51731 TT				
q	1.7565759		(2000.0)	**P**	**Q**
n	0.18894692	ω	305.91843	+0.98761110	−0.08319193
a	3.0077577	Ω	59.20340	+0.13639683	+0.87434795
e	0.4159849	i	8.91076	−0.07759002	+0.47811585
P	5.22				

From 69 observations 2018 Aug. 8–Sept. 16, mean residual 0″.4.

P/2018 P4 (PANSTARRS)
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Nov. 7.16310 TT				
q	3.6661707		(2000.0)	**P**	**Q**
n	0.05737367	ω	8.08470	+0.99842867	−0.03038661
a	6.6577525	Ω	353.11034	−0.01310202	+0.69033923
e	0.4493381	i	23.11010	+0.05448411	+0.72284743
P	17.18				

From 64 observations 2018 July 10–Sept. 13, mean residual 0″.4.

C/2018 P5 (PANSTARRS)
Epoch 2019 Feb. 6.0 TT = JDT 2458520.5

				MPCW	
T	2019 Feb. 25.92342 TT				
q	4.5763613		(2000.0)	**P**	**Q**
n	0.02168122	ω	131.59031	+0.97400520	+0.21386070
a	12.7373831	Ω	216.24531	−0.22647522	+0.92630028
e	0.6407142	i	7.25665	+0.00477937	+0.31021185
P	45.46				

From 49 observations 2018 June 16–Sept. 8, mean residual 0″.5.

C/2018 R3 (Lemmon)
Epoch 2019 June 6.0 TT = JDT 2458640.5

				MPCW	
T	2019 June 7.15183 TT				
q	1.2903156		(2000.0)	**P**	**Q**
z	+0.0005209	ω	112.88199	−0.13197946	−0.82931933
	±0.0001920	Ω	324.62460	+0.10196812	+0.53349200
e	0.9993278	i	69.69764	+0.98599388	−0.16617983

From 78 observations 2018 Aug. 8–Sept. 17, mean residual 0″.4.

C/2018 R4 (Fuls)
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5

				MPCW	
T	2018 Mar. 3.56547 TT				
q	1.7093737		(2000.0)	**P**	**Q**
z	+0.0034787	ω	345.12211	+0.23972153	+0.95437982
	±0.0002913	Ω	298.47214	−0.86876732	+0.12903249
e	0.9940536	i	11.68433	−0.43333236	+0.26927641

From 80 observations 2018 Aug. 14–Sept. 16, mean residual 0″.5.

C/2018 R5 (Lemmon)
Epoch 2018 Dec. 28.0 TT = JDT 2458480.5

				MPCW	
T	2019 Jan. 9.95708 TT				
q	3.6213350		(2000.0)	**P**	**Q**
n	0.00903245	ω	178.00606	+0.98874976	−0.00221194
a	22.8348995	Ω	171.14241	−0.14713062	+0.16579319
e	0.8414123	i	103.75551	−0.02695340	−0.98615806
P	109				

From 140 observations 2018 July 5–Sept. 18, mean residual 0″.4.

21P/Giacobini-Zinner
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5

				MPCW	
T	2018 Sept. 10.27808 TT				
q	1.0128197		(2000.0)	**P**	**Q**
n	0.15064716	ω	172.86127	+0.98463140	−0.10353819
a	3.4980721	Ω	195.39215	+0.12221394	+0.98376974
e	0.7104635	i	31.99774	+0.12475883	−0.14655013
P	6.54				

From 2292 observations 2005 Apr. 22–2018 Aug. 12, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.29$, $A_2 = -0.1248$.

29P/Schwassmann-Wachmann
Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

				MPCW	
T	2019 Mar. 7.75763 TT				
q	5.7668222		(2000.0)	**P**	**Q**
n	0.06662629	ω	47.77452	+0.99270154	−0.00957049
a	6.0261367	Ω	312.39454	−0.05135051	+0.86841770
e	0.0430316	i	9.36833	+0.10911815	+0.49574096
P	14.79				

From 24209 observations 1902 Mar. 5–2018 Sept. 20, mean residual 0″.6.

38P/Stephan-Oterma
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Nov. 10.97757 TT				
q	1.5885900		(2000.0)	**P**	**Q**
n	0.02596721	ω	359.58219	+0.21468225	−0.92685119
a	11.2941221	Ω	77.99964	+0.89700086	+0.06235146
e	0.8593436	i	18.35309	+0.38639486	+0.37021503
P	37.96				

From 559 observations 1942 Nov. 6–2018 Sept. 19, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.01$, $A_2 = -0.0025$.

46P/Wirtanen
Epoch 2018 Dec. 28.0 TT = JDT 2458480.5

				MPCW	
T	2018 Dec. 12.94112 TT				
q	1.0553572		(2000.0)	**P**	**Q**
n	0.18118601	ω	356.35157	+0.19785698	−0.95926013
a	3.0930453	Ω	82.15959	+0.90441872	+0.09931137
e	0.6587967	i	11.74625	+0.37799390	+0.26449434
P	5.44				

From 1504 observations 2007 Aug. 6–2018 Sept. 3, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.36$, $A_2 = -0.1616$.

59P/Kearns-Kwee
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5

				MPCW	
T	2018 Sept. 16.78417 TT				
q	2.3587693		(2000.0)	**P**	**Q**
n	0.10342519	ω	127.70560	+0.15677659	−0.98043662
a	4.4948840	Ω	312.82807	+0.84737579	+0.19543335
e	0.4752324	i	9.33940	+0.50732177	−0.02344859
P	9.53				

From 780 observations 2008 July 28–2018 Sept. 16, mean residual 0″.6.
Nongravitational parameters $A_1 = -2.72$, $A_2 = -2.9726$.

64P/Swift-Gehrels
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Nov. 3.89469 TT				
q	1.3931901		(2000.0)	**P**	**Q**
n	0.10470608	ω	97.15130	+0.78661189	−0.60257276
a	4.4581511	Ω	299.99735	+0.48712092	+0.73969650
e	0.6874960	i	8.94869	+0.37941396	+0.29959165
P	9.41				

From 291 observations 1991 Jan. 7–2018 Aug. 11, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.09$, $A_2 = +0.0494$.

200P/Larsen
Epoch 2019 July 16.0 TT = JDT 2458680.5

				MPCW	
T	2019 July 28.48934 TT				
q	3.2972276		(2000.0)	**P**	**Q**
n	0.08993063	ω	133.97689	+0.97520767	−0.14000564
a	4.9339826	Ω	234.80210	+0.08846145	+0.95649156
e	0.3317310	i	12.10567	+0.20284127	+0.25597328
P	10.96				

From 517 observations 1997 Nov. 3–2018 Aug. 12, mean residual 0″.6.

243P/NEAT
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5

				MPCW	
T	2018 Aug. 26.00689 TT				
q	2.4544438		(2000.0)	**P**	**Q**
n	0.13144874	ω	283.55482	+0.97228322	−0.19238738
a	3.8308789	Ω	87.65877	+0.23016404	+0.88749145
e	0.3593001	i	7.64145	−0.04110774	+0.41874339
P	7.50				

From 334 observations 2003 Aug. 1–2018 Sept. 19, mean residual 0″.6.

245P/WISE
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Feb. 8.65101 TT				
q	2.1899379		(2000.0)	**P**	**Q**
n	0.12141842	ω	316.67509	+0.09035134	+0.96451107
a	4.0390541	Ω	316.67828	−0.78622268	−0.08383495
e	0.4578092	i	21.19949	−0.61130233	+0.25037989
P	8.12				

From 89 observations 2002 Aug. 27–2018 Sept. 12, mean residual 0″.6.

300P/Catalina
Epoch 2018 Nov. 18.0 TT = JDT 2458440.5

				MPCW	
T	2018 Nov. 2.05153 TT				
q	0.8328086		(2000.0)	**P**	**Q**
n	0.22225096	ω	222.84875	+0.74590048	+0.65874572
a	2.6992324	Ω	95.67398	−0.58121659	+0.71591223
e	0.6914647	i	5.67611	−0.32529946	+0.23135201
P	4.43				

From 607 observations 2005 May 6–2018 Sept. 17, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.37$, $A_2 = -0.0098$.

313P/Gibbs
Epoch 2020 Apr. 21.0 TT = JDT 2458960.5

				MPCW	
T	2020 Apr. 15.16845 TT				
q	2.4188919		(2000.0)	**P**	**Q**
n	0.17537437	ω	254.60684	+0.98297040	−0.01477722
a	3.1610058	Ω	105.97202	+0.07787787	+0.93632444
e	0.2347714	i	10.98335	−0.16644590	+0.35082499
P	5.62				

From 97 observations 2003 Sept. 30–2018 July 11, mean residual 0″.6.

315P/LONEOS
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5

				MPCW	
T	2016 Dec. 6.82715 TT				
q	2.4204226		(2000.0)	**P**	**Q**
n	0.08780382	ω	67.18905	−0.68638327	−0.66768598
a	5.0133396	Ω	69.55180	+0.50163449	−0.72162983
e	0.5172035	i	17.91510	+0.52653666	−0.18288200
P	11.23				

From 2155 observations 2004 Nov. 3–2018 June 14, mean residual 0″.5.

334P/NEAT
Epoch 2017 May 7.0 TT = JDT 2457880.5

				MPCW	
T	2017 May 5.37236 TT				
q	4.1846246		(2000.0)	**P**	**Q**
n	0.05901019	ω	80.52013	−0.93892586	−0.10986259
a	6.5340840	Ω	92.65259	−0.01672333	−0.93198091
e	0.3595698	i	19.05411	+0.34371290	−0.34545882
P	16.70				

From 367 observations 2001 Feb. 24–2018 June 11, mean residual 0″.6.

349P/Lemmon
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5

				MPCW	
T	2017 Aug. 26.73339 TT				
q	2.4985059		(2000.0)	**P**	**Q**
n	0.14596971	ω	255.97823	−0.67011386	+0.74087742
a	3.5724067	Ω	331.78313	−0.63871860	−0.60662554
e	0.3006099	i	5.49255	−0.37813486	−0.28828130
P	6.75				

From 105 observations 2010 Mar. 14–2018 Aug. 8, mean residual 0″.5.

350P/McNaught
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Jan. 29.31448 TT				
q	3.7507586		(2000.0)	**P**	**Q**
n	0.11768182	ω	146.71003	−0.84178503	+0.52706110
a	4.1241058	Ω	65.52101	−0.51902650	−0.73086850
e	0.0905280	i	7.36318	−0.14835583	−0.43363329
P	8.38				

From 129 observations 2005 Nov. 1–2018 June 20, mean residual 0″.5.

361P/Spacewatch
Epoch 2018 July 21.0 TT = JDT 2458320.5

				MPCW	
T	2018 July 2.46674 TT				
q	2.7804490		(2000.0)	**P**	**Q**
n	0.08960337	ω	219.20056	+0.46938410	−0.87788875
a	4.9459892	Ω	203.27747	+0.85841488	+0.47883903
e	0.4378376	i	13.88218	+0.20688755	+0.00495185
P	11.00				

From 209 observations 2006 Oct. 11–2018 Jan. 27, mean residual 0″.5.
Nongravitational parameters $Y_1 = +1.30$, $Y_2 = +0.5316$.

364P/PANSTARRS
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 24.36601 TT				
q	0.7978528		(2000.0)	**P**	**Q**
n	0.20191332	ω	211.92783	−0.21380776	+0.96497030
a	2.8775711	Ω	46.22827	−0.84612876	−0.10514656
e	0.7227339	i	12.15535	−0.48821343	−0.24036745
P	4.88				

From 604 observations 2013 Feb. 1–2018 Sept. 16, mean residual 0″.6.

365P/PANSTARRS
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Feb. 10.76021 TT				
q	1.3591126		(2000.0)	**P**	**Q**
n	0.17336462	ω	66.40051	−0.88412965	−0.43495746
a	3.1853884	Ω	87.44220	+0.34163698	−0.85096619
e	0.5733291	i	9.83642	+0.31874588	−0.29439523
P	5.69				

From 388 observations 2011 Nov. 24–2018 June 2, mean residual 0″.4.

368P/NEAT
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5

				MPCW	
T	2018 Sept. 14.25122 TT				
q	2.0677941		(2000.0)	**P**	**Q**
n	0.07589184	ω	118.80496	+0.92629858	−0.27163495
a	5.5250895	Ω	257.97762	+0.17793498	+0.92623120
e	0.6257447	i	15.48459	+0.33212961	+0.26136224
P	12.99				

From 406 observations 2005 July 5–2018 Sept. 16, mean residual 0″.6.

369P/Hill
Epoch 2018 Oct. 9.0 TT = JDT 2458400.5

				MPCW	
T	2018 Oct. 15.16375 TT				
q	1.9571445		(2000.0)	**P**	**Q**
n	0.10712763	ω	13.28610	+0.49352212	−0.85972690
a	4.3907131	Ω	47.32104	+0.78071440	+0.37125274
e	0.5542536	i	10.30806	+0.38330269	+0.35077208
P	9.20				

From 179 observations 2010 Jan. 6–2018 Sept. 12, mean residual 0″.6.

370P/NEAT
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 9.50464 TT				
q	2.4853291		(2000.0)	**P**	**Q**
n	0.06023085	ω	356.78032	+0.61381855	−0.74088950
a	6.4455014	Ω	55.16340	+0.73152122	+0.40396540
e	0.6144087	i	19.39741	+0.29682233	+0.53655820
P	16.36				

From 153 observations 2001 Aug. 20–2018 Sept. 18, mean residual 0″.6.

371P/LINEAR-Skiff
Epoch 2018 Oct. 9.0 TT = JDT 2458400.5

				MPCW	
T	2018 Oct. 4.58835 TT				
q	2.1910669		(2000.0)	**P**	**Q**
n	0.11528543	ω	308.47931	+0.92917180	−0.24630395
a	4.1810603	Ω	67.33480	+0.35567896	+0.79878124
e	0.4759542	i	17.37967	−0.10065906	+0.54889243
P	8.55				

From 99 observations 2001 Aug. 19–2018 Sept. 17, mean residual 0″.6.

372P/McNaught
Epoch 2018 Oct. 9.0 TT = JDT 2458400.5

				MPCW	
T	2018 Oct. 19.38163 TT				
q	3.8151372		(2000.0)	**P**	**Q**
n	0.10333569	ω	26.93620	+0.98857488	+0.11879737
a	4.4974790	Ω	325.84389	−0.14980986	+0.84230553
e	0.1517165	i	9.51111	+0.01663462	+0.52574574
P	9.54				

From 377 observations 2008 July 28–2018 Sept. 6, mean residual 0″.6.

373P/Rinner
Epoch 2019 Apr. 27.0 TT = JDT 2458600.5

				MPCW	
T	2019 Apr. 9.15302 TT				
q	2.3134669		(2000.0)	**P**	**Q**
n	0.13264993	ω	221.21342	−0.04043019	−0.98147201
a	3.8077173	Ω	231.95762	+0.96771665	+0.00820712
e	0.3924268	i	13.75754	+0.24877679	−0.19142972
P	7.43				

From 587 observations 2011 Nov. 28–2018 Sept. 18, mean residual 0″.6.

374P/Larson

Epoch 2018 Dec. 28.0 TT = JDT 2458480.5

T	2019 Jan. 10.86506 TT			MPCW	
q	2.6766256		(2000.0)	**P**	**Q**
n	0.08874584	ω	51.59142	+0.50904036	−0.86035684
a	4.9777992	Ω	7.93513	+0.72004891	+0.40924080
e	0.4622873	i	10.75790	+0.47160097	+0.30382245
P	11.11				

From 178 observations 2007 Sept. 10–2018 Sept. 18, mean residual 0″.6.

S/2003 J 19

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	205.75346		(2000.0)	**P**	**Q**
n	0.51534860	ω	284.07783	−0.97437263	−0.03555088
a	0.1517184	Ω	105.75291	+0.06874481	+0.89312525
e	0.2571569	i	166.65697	−0.21417780	+0.44840096
P	698.56 d	H	16.6	G 0.15	

From 23 observations 2003 Feb. 6–2018 May 12, mean residual 0″.39.

S/2011 J 1

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	249.76115		(2000.0)	**P**	**Q**
n	0.52555913	ω	127.16120	−0.93802799	−0.30255809
a	0.1497469	Ω	323.87621	−0.32996640	+0.92880892
e	0.2327917	i	163.34108	+0.10595125	+0.21394531
P	684.98 d	H	16.7	G 0.15	

From 31 observations 2011 Sept. 27–2018 May 12, mean residual 0″.41.

S/2016 J 2

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	201.41718		(2000.0)	**P**	**Q**
n	0.67668464	ω	116.83071	+0.86613801	+0.11782525
a	0.1265265	Ω	240.25920	−0.17564919	+0.98158353
e	0.2219283	i	34.01457	+0.46792341	+0.15036952
P	532.01 d	H	16.9	G 0.15	

From 21 observations 2016 Mar. 9–2018 May 16, mean residual 0″.30.

S/2017 J 2

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	344.42867		(2000.0)	**P**	**Q**
n	0.49735372	ω	231.90962	−0.90040757	−0.37120918
a	0.1553562	Ω	74.73352	−0.28760033	+0.89917298
e	0.2359972	i	166.39844	−0.32642343	+0.23171470
P	723.83 d	H	16.4	G 0.15	

From 16 observations 2016 Feb. 5–2018 May 19, mean residual 0″.27.

S/2017 J 3

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	91.21136		(2000.0)	**P**	**Q**
n	0.59429690	ω	171.64840	−0.00689157	−0.85005619
a	0.1379653	Ω	82.51383	−0.94541470	+0.17712675
e	0.1477301	i	147.91516	−0.32579681	−0.49601470
P	605.76 d	H	16.5	G 0.15	

From 19 observations 2016 Feb. 5–2018 May 17, mean residual 0″.31.

S/2017 J 4

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	282.48140		(2000.0)	**P**	**Q**
n	1.42986289	ω	238.76803	−0.22024934	−0.90928747
a	0.0768380	Ω	228.44729	+0.97529693	−0.21155831
e	0.1799542	i	28.15470	−0.01691538	−0.35838439
P	251.77 d	H	16.2	G 0.15	

From 20 observations 2017 Mar. 23–2018 May 16, mean residual 0″.28.

S/2017 J 5

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	77.56833		(2000.0)	**P**	**Q**
n	0.49965998	ω	11.89929	−0.28781257	+0.92764960
a	0.1548778	Ω	118.22283	+0.85502217	+0.13696834
e	0.2842220	i	164.33102	+0.43139427	+0.34742754
P	720.49 d	H	16.5	G 0.15	

From 14 observations 2017 Mar. 23–2018 May 12, mean residual 0″.22.

S/2017 J 6

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	184.52889		(2000.0)	**P**	**Q**
n	0.52581044	ω	77.37563	+0.58897140	−0.78639351
a	0.1496992	Ω	26.34913	−0.80211450	−0.59695590
e	0.5568606	i	155.18516	+0.09861549	−0.15883609
P	684.66 d	H	16.4	G 0.15	

From 16 observations 2017 Feb. 24–2018 May 16, mean residual 0″.40.

S/2017 J 7

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	236.89880		(2000.0)	**P**	**Q**
n	0.59724037	ω	323.55054	+0.92659815	+0.06284667
a	0.1375117	Ω	321.50627	+0.02409525	−0.99383247
e	0.2146970	i	143.43936	−0.37528027	+0.09136363
P	602.77 d	H	16.6	G 0.15	

From 18 observations 2017 Feb. 24–2018 May 17, mean residual 0″.29.

S/2017 J 8

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	70.81564		(2000.0)	**P**	**Q**
n	0.49949660	ω	45.16406	−0.43250358	+0.89726205
a	0.1549116	Ω	160.25804	+0.73536932	+0.29413887
e	0.3118201	i	164.78217	+0.52170166	+0.32924631
P	720.73 d	H	17.0	G 0.15	

From 13 observations 2017 Mar. 23–2018 May 12, mean residual 0″.17.

S/2017 J 9

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

M	259.48554		(2000.0)	**P**	**Q**
n	0.56171322	ω	317.78631	+0.92009909	−0.13012913
a	0.1432504	Ω	306.44369	−0.09860601	−0.98977627
e	0.2287964	i	152.66144	−0.37907061	−0.05838965
P	640.90 d	H	16.1	G 0.15	

From 15 observations 2017 Feb. 24–2018 May 17, mean residual 0″.29.

S/2018 J 1

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	139.33114				
n	1.43769804	ω	346.68519	+0.14034132	−0.84969990
a	0.0765586	Ω	93.38919	+0.94865058	−0.03157990
e	0.0943576	i	30.60635	+0.28348968	+0.52632004
P	250.40 d	H	15.9	G 0.15	

From 17 observations 2017 Mar. 25–2018 June 15, mean residual 0″.16.

Jupiter VI (Himalia)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	239.54886				
n	1.44886648	ω	20.62552	+0.44302770	−0.82224763
a	0.0761646	Ω	45.22903	+0.73577634	+0.10580058
e	0.1509553	i	30.21429	+0.51221055	+0.55920933
P	248.47 d	H	7.9	G 0.15	

From 1899 observations 1905 Jan. 4–2018 Sept. 18, mean residual 0″.36.

Jupiter VII (Elara)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	174.10161				
n	1.39276925	ω	192.01162	+0.20320918	+0.84216376
a	0.0781963	Ω	91.34642	−0.85190202	+0.40353050
e	0.1776223	i	29.97380	−0.48266859	−0.35766373
P	258.48 d	H	9.6	G 0.15	

From 1446 observations 1905 Jan. 4–2018 Sept. 16, mean residual 0″.37.

Jupiter VIII (Pasiphae)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	259.25505				
n	0.49838343	ω	241.59647	−0.70704647	+0.69180621
a	0.1551422	Ω	19.11682	+0.69556312	+0.71773715
e	0.6110162	i	153.40903	−0.12758225	+0.07910471
P	722.34 d	H	10.1	G 0.15	

From 2346 observations 1908 Jan. 28–2018 June 2, mean residual 0″.40.

Jupiter IX (Sinope)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	71.53524				
n	0.46314727	ω	60.30205	+0.61100930	−0.78974107
a	0.1629144	Ω	8.61437	−0.79162169	−0.60969920
e	0.3366550	i	158.63840	+0.00165534	−0.06764558
P	777.29 d	H	11.1	G 0.15	

From 1228 observations 1914 July 24–2018 June 6, mean residual 0″.41.

Jupiter XI (Carme)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	270.72207				
n	0.47613305	ω	94.47656	−0.18345930	+0.98077962
a	0.1599386	Ω	195.53471	+0.77452633	+0.18583616
e	0.2241018	i	165.63679	+0.60535250	+0.05946642
P	756.09 d	H	10.6	G 0.15	

From 1439 observations 1938 July 31–2018 June 6, mean residual 0″.43.

Jupiter XXVI (Isonoe)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	148.53423				
n	0.49474231	ω	219.75296	+0.95291206	−0.28299622
a	0.1559024	Ω	203.99552	−0.16140605	−0.77750589
e	0.2263119	i	164.45891	−0.25672299	−0.56160282
P	727.65 d	H	16.0	G 0.15	

From 71 observations 2000 Nov. 23–2018 May 12, mean residual 0″.41.

Jupiter XXXVI (Sponde)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	180.99731				
n	0.48987158	ω	110.44282	+0.01605352	+0.98334677
a	0.1569342	Ω	202.02446	+0.63819110	+0.12929848
e	0.3136947	i	151.13548	+0.76971060	−0.12771465
P	734.89 d	H	16.7	G 0.15	

From 20 observations 2001 Dec. 9–2018 May 18, mean residual 0″.30.

Jupiter XLV (Helike)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	277.89677				
n	0.57478052	ω	351.64369	−0.91012419	+0.34261861
a	0.1410710	Ω	148.28457	+0.40114509	+0.58787306
e	0.1454760	i	153.69129	+0.10371390	+0.73281495
P	626.33 d	H	16.0	G 0.15	

From 35 observations 2003 Feb. 6–2018 May 12, mean residual 0″.32.

Jupiter L (Herse)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	148.53759				
n	0.52011344	ω	40.00887	+0.70511644	−0.70862014
a	0.1507904	Ω	354.65795	−0.70063402	−0.70185713
e	0.3574403	i	163.87887	−0.10919141	−0.07248493
P	692.16 d	H	16.5	G 0.15	

From 37 observations 2003 Feb. 8–2018 May 12, mean residual 0″.25.

Jupiter LVI

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	28.54547				
n	0.49823271	ω	347.86367	−0.46622040	+0.73750504
a	0.1551735	Ω	107.50257	+0.84847322	+0.21640133
e	0.3227488	i	149.18197	+0.25046303	+0.63973180
P	722.55 d	H	16.8	G 0.15	

From 23 observations 2011 Sept. 27–2018 May 12, mean residual 0″.46.

Neptune II (Nereid)

Epoch 2018 Mar. 23.0 TT = JDT 2458200.5 MPC

			(2000.0)	P	Q
M	30.03004				
n	0.99963320	ω	296.52986	−0.24055597	+0.96894458
a	0.0368596	Ω	319.41738	−0.85627654	−0.23962661
e	0.7417369	i	5.05003	−0.45708130	−0.06103675
P	360.13 d	H	4.4	G 0.15	

From 789 observations 1950 July 18–2018 Sept. 16, mean residual 0″.44.

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 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*.

(523585)	1998 MW_5	1998 06 24	704	LINEAR
(523586)	1999 LK_1	1999 06 04	703	CSS
(523587)	1999 VQ_{11}	1999 11 08	704	LINEAR
(523588)	2000 CN_{105}	2000 02 06	695	Buie, M. W.
(523589)	2001 HA_4	2001 04 16	704	LINEAR
(523590)	2001 QC_{96}	2001 08 19	704	LINEAR
(523591)	2001 QD_{298}	2001 08 19	807	Buie, M. W.
(523592)	2001 SK_{276}	2001 09 27	704	LINEAR
(523593)	2001 TZ_1	2001 10 11	704	LINEAR
(523594)	2001 YO_3	2001 12 18	704	LINEAR
(523595)	2002 OS_4	2002 07 19	644	NEAT
(523596)	2002 PH_{80}	2002 08 12	704	LINEAR
(523597)	2002 QX_{47}	2002 08 26	644	Trujillo, C. A., Brown, M. E.
(523598)	2003 ED_{50}	2003 03 11	704	LINEAR
(523599)	2003 RM	2003 09 02	608	NEAT
(523600)	2003 RC_2	2003 09 02	704	LINEAR
(523601)	2003 UY_{413}	2003 10 19	644	Palomar
(523602)	2004 LH	2004 06 09	704	LINEAR
(523603)	2004 QJ_7	2004 08 23	E12	Siding Spring Survey
(523604)	2004 QB_{17}	2004 08 25	691	Spacewatch
(523605)	2004 RX_{10}	2004 09 08	704	LINEAR
(523606)	2005 CJ	2005 02 01	691	Spacewatch
(523607)	2005 CS_6	2005 02 02	704	LINEAR
(523608)	2005 EZ_{29}	2005 03 04	703	CSS
(523609)	2005 PJ_2	2005 08 04	644	NEAT
(523610)	2005 TG	2005 10 01	G96	Mt. Lemmon Survey
(523611)	2005 UY_5	2005 10 27	G96	Mt. Lemmon Survey
(523612)	2006 BH	2005 12 29	703	CSS
(523613)	2006 SJ_{198}	2006 09 28	G96	Mt. Lemmon Survey
(523614)	2006 TH_7	2006 09 21	E12	CSS
(523615)	2006 UO_{321}	2006 10 19	695	Kitt Peak
(523616)	2007 LC_{15}	2007 06 11	G96	Mt. Lemmon Survey
(523617)	2007 PS_{45}	2007 08 12	675	Palomar
(523618)	2007 RT_{15}	2007 09 11	675	Schwamb, M. E., *et al.*
(523619)	2007 RX_{19}	2007 09 14	703	CSS
(523620)	2007 RH_{283}	2007 09 15	675	Palomar
(523621)	2007 TK_8	2007 10 07	941	Ferrando, R.
(523622)	2007 TG_{422}	2007 10 03	705	Becker, A. C., Puckett, A. W., Kubica, J.
(523623)	2008 CB_{22}	2008 02 08	703	CSS
(523624)	2008 CT_{190}	2008 02 09	675	Palomar
(523625)	2008 DG_{17}	2008 02 29	703	CSS
(523626)	2008 PH_9	2008 08 06	E12	Siding Spring Survey
(523627)	2008 QB_{43}	2008 08 25	675	Palomar
(523628)	2008 RT_{26}	2008 09 07	G96	Mt. Lemmon Survey
(523629)	2008 SP_{266}	2008 09 26	675	Schwamb, M. E., *et al.*
(523630)	2009 OG	2009 07 17	E12	Siding Spring Survey
(523631)	2009 SX_1	2009 09 18	703	CSS
(523632)	2009 UX_{17}	2009 10 22	703	CSS
(523633)	2009 XR_2	2009 12 13	703	CSS
(523634)	2010 AH_2	2010 01 06	291	Spacewatch
(523635)	2010 DN_{93}	2010 02 26	F51	Pan-STARRS 1
(523636)	2010 EX_{119}	2010 03 13	C51	WISE
(523637)	2010 LT_{108}	2010 06 13	C51	WISE
(523638)	2010 MQ_1	2010 02 19	G96	WISE
(523639)	2010 RE_{64}	2010 07 11	809	Pan-STARRS 1
(523640)	2010 RO_{64}	2010 08 04	809	Pan-STARRS 1
(523641)	2010 RO_{82}	2010 09 10	E12	Siding Spring Survey
(523642)	2010 SS_{43}	2010 09 17	F51	Pan-STARRS 1
(523643)	2010 TY_{53}	2010 08 04	809	Pan-STARRS 1
(523644)	2010 VX_{11}	2010 09 06	809	Pan-STARRS 1
(523645)	2010 VK_{201}	2010 11 01	809	Pan-STARRS 1
(523646)	2010 VL_{201}	2010 10 29	809	Pan-STARRS 1
(523647)	2010 VV_{224}	2010 10 14	F51	Pan-STARRS 1
(523648)	2010 WP_8	2007 12 20	704	Mt. Lemmon Survey
(523649)	2010 XZ_{78}	2010 09 24	G96	Pan-STARRS 1
(523650)	2011 GQ_{61}	2011 04 04	G96	Mt. Lemmon Survey
(523651)	2011 GA_{62}	2011 04 11	F51	Pan-STARRS 1
(523652)	2011 LZ_{28}	2010 06 15	F51	Pan-STARRS 1
(523653)	2011 OA_{60}	2010 05 09	F51	Pan-STARRS 1
(523654)	2011 SR_5	2011 09 19	703	CSS
(523655)	2011 VJ_{24}	2010 10 16	F51	Pan-STARRS 1
(523656)	2011 WO_4	2011 11 17	704	LINEAR
(523657)	2012 DJ_4	2012 01 19	691	Pan-STARRS 1
(523658)	2012 DW_{98}	2011 04 03	F51	Pan-STARRS 1
(523659)	2012 HG_{84}	2010 04 20	809	Pan-STARRS 1
(523660)	2012 KY_{41}	2012 05 21	F51	Pan-STARRS 1
(523661)	2012 LF_{11}	2012 06 14	F51	Pan-STARRS 1
(523662)	2012 MU_2	2012 06 18	703	CSS
(523663)	2012 OZ	2012 07 18	703	CSS
(523664)	2012 OD_1	2012 07 19	J75	OAM
(523665)	2012 RF_{15}	2012 09 13	E12	Siding Spring Survey
(523666)	2012 RS_{16}	2012 09 14	J75	OAM
(523667)	2012 TM_{139}	2012 10 10	703	CSS
(523668)	2012 UV_{27}	2012 10 16	G96	Mt. Lemmon Survey
(523669)	2012 XS_{134}	2012 12 10	F51	Pan-STARRS 1
(523670)	2013 EP_{41}	2013 03 08	F51	Pan-STARRS 1
(523671)	2013 FZ_{27}	2010 12 15	807	Pan-STARRS 1
(523672)	2013 FJ_{28}	2012 01 07	807	Pan-STARRS 1
(523673)	2013 MZ_{11}	2010 08 04	F51	Pan-STARRS 1
(523674)	2013 MA_{12}	2011 07 26	F51	Pan-STARRS 1
(523675)	2013 PV_{74}	2010 08 06	F51	Pan-STARRS 1
(523676)	2013 UL_{10}	2010 08 18	H15	Pan-STARRS 1
(523677)	2013 UF_{15}	2010 07 19	F51	Pan-STARRS 1
(523678)	2013 XB_{26}	2011 03 30	F51	Pan-STARRS 1
(523679)	2013 YB_{38}	2013 12 27	G96	Mt. Lemmon Survey
(523680)	2013 YJ_{151}	2011 11 10	F51	Pan-STARRS 1

(523681) 2014 BV_{64} 2012 01 25 F51 Pan-STARRS 1
(523682) 2014 CN_{23} 2012 03 15 F51 Pan-STARRS 1
(523683) 2014 CP_{23} 2011 10 29 F51 Pan-STARRS 1
(523684) 2014 CQ_{23} 2011 03 13 F51 Pan-STARRS 1
(523685) 2014 DN_{112} 2014 02 28 F51 Pan-STARRS 1
(523686) 2014 DB_{143} 2010 04 12 F51 Pan-STARRS 1
(523687) 2014 DF_{143} 2011 04 12 F51 Pan-STARRS 1
(523688) 2014 DK_{143} 2011 04 28 F51 Pan-STARRS 1
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(523779) 2015 AX_{16} 2014 05 31 F51 Pan-STARRS 1
(523780) 2015 AN_{281} 2011 01 24 F51 Pan-STARRS 1
(523781) 2015 BV_{92} 2015 01 17 G96 Mt. Lemmon Survey
(523782) 2015 BD_{518} 2011 12 16 F51 Pan-STARRS 1
(523783) 2015 BG_{518} 2011 01 30 F51 Pan-STARRS 1
(523784) 2015 BJ_{518} 2013 02 15 F51 Pan-STARRS 1

(523785)	2015 CM_3	2011 10 23	G96	Pan-STARRS 1	
(523786)	2015 DP	2015 01 24	703	Pan-STARRS 1	
(523787)	2015 DV_{224}	2014 01 26	F51	Pan-STARRS 1	
(523788)	2015 FP_{118}	2015 03 21	F51	Pan-STARRS 1	
(523789)	2015 FN_{345}	2012 04 27	F51	Pan-STARRS 1	
(523790)	2015 HP_9	2010 06 01	F51	Pan-STARRS 1	
(523791)	2015 HT_{171}	2011 12 16	F51	Pan-STARRS 1	
(523792)	2015 MR_{101}	2015 06 17	F51	Pan-STARRS 1	
(523793)	2015 OV_{79}	2013 08 24	F51	Pan-STARRS 1	
(523794)	2015 RR_{245}	2010 06 15	568	Pan-STARRS 1	
(523795)	2015 TQ_{178}	1993 07 24	G45	Spacewatch	
(523796)	2016 LE_{51}	2016 06 11	G96	Mt. Lemmon Survey	
(523797)	2016 NM_{56}	2012 11 01	F51	Pan-STARRS 1	
(523798)	2017 CX_{33}	2014 12 11	F51	Pan-STARRS 1	
(523799)	2017 DO_{36}	2016 11 10	G96	Pan-STARRS 1	
(523800)	2017 KZ_{31}	2015 06 23	F51	Pan-STARRS 1	

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2018 Mar. 23.0 TT):

Object	H	M	ω	Ω	i	e	a	MPO
(523585)	19.0	171.43451	26.74617	80.24458	6.29181	0.3627826	1.0233931450741	
(523586)	22.1	36.78901	223.61589	240.00864	11.90666	0.3326807	0.9072378450741	
(523587)	17.5	321.53638	353.25241	26.70505	7.94486	0.5970343	2.8071554450742	
(523588)	5.6	122.11224	9.59765	28.94196	3.41216	0.0931466	44.6750428450742	
(523589)	17.7	317.76090	95.04252	354.63972	17.20697	0.7953639	2.6818737450743	
(523590)	20.9	213.96947	277.39044	142.99393	20.58462	0.3797882	1.3356262450743	
(523591)	6.4	68.69813	196.79859	70.53387	5.02452	0.0593659	42.6431962450743	
(523592)	17.5	311.58442	119.48358	297.69112	20.74234	0.5928564	3.1902970450744	
(523593)	19.0	288.07287	149.27520	189.89157	39.60149	0.4392484	2.0113239450744	
(523594)	22.8	205.32430	129.59699	272.78232	13.12560	0.1656860	1.3394940450744	
(523595)	18.3	277.46594	102.21050	289.45013	26.80831	0.4537670	1.9236203450745	
(523596)	19.6	320.32236	331.23552	351.18820	6.42082	0.4580536	2.1699268450746	
(523597)	8.7	63.49097	3.48004	275.89600	7.27479	0.3741522	25.3646668450747	
(523598)	20.8	294.87039	93.96195	173.53400	33.73253	0.5467846	1.4159366450747	
(523599)	19.6	339.53466	324.50835	336.70855	10.85347	0.6011229	2.9218079450747	
(523600)	19.5	213.51152	273.14639	165.66762	42.31216	0.3712161	1.5250133450748	
(523601)	5.4	46.44655	343.71935	341.28658	20.75343	0.2083705	47.0417490450749	
(523602)	18.8	332.29571	341.44441	248.68802	39.54941	0.3271280	1.7645935450749	
(523603)	18.6	213.03711	63.48869	25.58346	14.51050	0.3303274	1.4439280450750	
(523604)	18.4	284.67787	148.75945	289.07275	4.82529	0.5047651	2.2897164450751	
(523605)	21.3	334.85492	334.05701	173.68033	5.95616	0.3513035	0.9196377450752	
(523606)	20.2	261.24092	81.71733	358.01807	1.08295	0.5261848	1.7495167450752	
(523607)	17.9	8.08907	268.86252	313.98260	23.50954	0.5508419	2.6130310450753	
(523608)	20.3	18.78823	22.07652	158.48450	6.85517	0.4239948	1.8800116450754	
(523609)	19.4	165.77714	128.80686	326.50697	17.41434	0.6594311	1.1980179450754	
(523610)	18.1	308.90579	190.89529	230.92421	11.10971	0.5404797	2.6676939450755	
(523611)	18.6	315.83177	261.87860	56.56186	7.13360	0.4171835	2.2274797450755	
(523612)	18.2	18.36705	249.21357	306.11254	31.08666	0.6453122	3.2380144450755	
(523613)	17.7	202.18227	212.26463	266.86530	2.43382	0.4563264	2.0890878450755	
(523614)	19.1	288.39965	336.65932	162.90008	17.60316	0.8347374	2.5246228450756	
(523615)	7.5	50.77091	257.87104	65.86872	2.33063	0.0366452	43.6032076450756	
(523616)	18.6	82.75216	341.13786	107.09515	28.36015	0.7384407	1.3133183450756	
(523617)	5.6	32.99142	188.31813	131.00962	19.53054	0.1956606	47.4426417450757	
(523618)	6.8	31.53662	274.86139	82.17797	12.94524	0.2267048	39.2027254450757	
(523619)	18.5	262.09723	97.03637	349.52589	40.45090	0.5331749	1.9557514450757	
(523620)	8.7	147.97757	329.20556	286.41411	21.38204	0.3423667	15.8849887450758	
(523621)	21.0	245.98492	171.92561	217.05430	3.09752	0.1598874	1.4967218450758	
(523622)	6.5	0.44290	285.61678	112.87299	18.60918	0.9241979468	9.9833249450759	
(523623)	19.7	296.79722	33.18148	51.40792	7.30697	0.6559062	2.3607479450759	
(523624)	5.8	5.63341	48.11667	103.73749	38.88333	0.3456875	53.0382101450759	
(523625)	19.6	4.01933	215.03759	324.39447	41.10579	0.4495566	1.8373142450760	
(523626)	16.6	11.76563	247.86795	341.29686	35.63455	0.5609447	2.9117535450761	
(523627)	6.0	335.03741	76.85615	320.47474	26.35285	0.0925419	41.6244181450761	
(523628)	19.5	291.06161	30.81524	7.08145	2.22194	0.4616500	2.2446361450761	
(523629)	5.9	2.27765	236.59284	141.19265	19.50620	0.1170860	40.8338797450762	
(523630)	16.2	325.73164	114.15668	309.42872	48.38490	0.8586352	2.7046367450762	
(523631)	18.9	241.93357	115.16458	335.17427	8.28558	0.4474803	1.7222839450763	
(523632)	21.5	83.11497	278.47180	216.14111	10.80471	0.0833743	1.1892339450764	
(523633)	18.6	217.37942	131.06204	271.49851	26.72065	0.2889988	1.4911846450764	
(523634)	5.8	318.91197	54.28868	127.65080	18.03340	0.0472557	40.5598817450766	
(523635)	4.8	39.72604	32.98662	91.26284	40.59738	0.1873143	55.4935027450766	
(523636)	19.3	353.62420	22.25771	211.86007	15.57119	0.5953361	1.9031983450766	
(523637)	19.7	36.04567	9.45195	161.15165	31.87131	0.3707657	1.3492705450767	
(523638)	20.4	341.03431	285.56664	284.47132	37.33769	0.5078991	1.9380293450767	
(523639)	4.4	319.93085	20.97157	67.30995	13.54941	0.4445488	65.4020787450767	
(523640)	5.2	4.99819	311.94633	60.75065	17.07986	0.1183954	46.6834684450768	
(523641)	16.9	282.56706	66.42749	21.35813	18.11182	0.6091745	2.5060266450768	
(523642)	5.9	316.76773	111.80776	341.42117	34.49862	0.2143407	45.1051306450769	
(523643)	5.7	323.05725	3.57555	111.28807	22.45815	0.4580033	38.7973087450769	
(523644)	6.4	344.50884	292.76383	170.61928	22.31192	0.2825905	39.2526809450769	
(523645)	5.0	170.22013	88.09344	156.49974	28.85239	0.1172703	43.0107768450770	
(523646)	5.9	329.14193	348.11419	104.04186	5.52907	0.0419657	36.2826374450770	
(523647)	6.1	339.23507	217.79833	225.24683	25.16314	0.1540540	43.9164026450771	
(523648)	18.3	180.72167	218.10163	269.89301	18.19259	0.4422544	2.0025704450771	
(523649)	13.2	101.18973	229.02720	252.32275	39.21164	0.2945122	7.6677750450771	
(523650)	18.4	179.54072	155.07478	333.52688	65.15498	0.4124734	1.5900833450772	
(523651)	18.9	333.45184	12.41426	264.29765	9.97616	0.4984776	2.2878057450772	
(523652)	7.1	350.18033	100.12736	315.29066	13.48848	0.5552947	62.7350516450773	
(523653)	5.1	23.10770	141.10373	129.44318	23.04999	0.1453946	41.0160499450774	
(523654)	20.7	347.34170	305.48800	180.17911	29.10634	0.7057187	1.1782898450774	
(523655)	5.9	345.46813	121.45146	12.87659	9.53322	0.1918274	39.5487109450775	
(523656)	19.2	253.86357	236.00764	225.20406	60.94958	0.4972475	1.7374779450775	
(523657)	20.4	239.26655	271.40383	155.33484	7.84315	0.3402769	1.7949135450775	
(523658)	6.0	355.75356	357.49363	209.73690	18.97930	0.0397275	41.3642464450776	
(523659)	5.4	322.19491	21.47219	266.44131	10.85379	0.0924036	43.3701492450776	
(523660)	18.1	268.51699	144.13820	220.90961	23.05224	0.4716893	2.0328721450776	
(523661)	20.8	14.78957	263.53436	222.22139	11.64736	0.4831619	0.8972342450777	
(523662)	20.8	341.10190	16.57065	250.33074	11.22144	0.5141541	2.0553011450777	
(523663)	20.1	279.55449	224.72802	123.68948	21.83923	0.3957473	2.1259287450778	
(523664)	18.6	295.98591	224.37657	303.74745	42.27186	0.5025200	0.8288814450778	
(523665)	19.9	319.38448	297.85363	29.05895	5.36888	0.4069999	2.0553668450780	
(523666)	21.2	305.78512	99.58535	219.04196	5.02608	0.4355387	2.1004833450780	
(523667)	19.7	301.12409	45.55577	283.91203	4.49291	0.4417654	2.1159911450781	
(523668)	19.6	326.63537	349.35465	305.48864	5.16982	0.4395211	2.1048785450782	

(523669)	18.4	274.77670	290.54972	73.66377	20.39335	0.4688403	2.1693266450783
(523670)	19.3	289.16106	173.06061	166.72720	23.06189	0.2510595	1.7086802450783
(523671)	4.4	282.32699	341.17569	285.15843	14.04990	0.2188772	48.2896471450784
(523672)	8.1	325.04021	78.06121	184.94145	21.80993	0.4463210	35.3418342450784
(523673)	8.0	316.18432	19.56396	19.81129	6.37190	0.3057172	24.2559485450785
(523674)	5.6	250.30090	317.38913	115.00599	23.36049	0.0629796	41.5592068450785
(523675)	5.6	29.95020	236.99019	48.90032	2.27809	0.2300453	50.0468203450785
(523676)	12.8	43.60675	186.62311	234.04746	19.15130	0.3770989	9.9516712450786
(523677)	6.2	1.84331	9.41057	39.39521	12.40659	0.1597556	42.0580401450786
(523678)	5.3	337.00008	266.38540	292.33238	3.58814	0.0138910	45.8906967450787
(523679)	17.8	50.46610	306.36257	248.79462	22.99031	0.4974958	2.2304292450787
(523680)	5.6	11.13702	141.81082	302.87964	33.64804	0.4352158	72.3545850450788
(523681)	4.7	264.17508	345.99326	279.31307	15.45033	0.1463074	45.9003062450788
(523682)	8.8	250.30923	11.10169	359.75328	14.12255	0.3042625	16.3957139450788
(523683)	6.1	355.79236	21.90521	145.83961	28.47612	0.2743044	52.5304851450789
(523684)	5.7	302.25487	235.90893	30.66265	8.67904	0.1620858	46.2711447450789
(523685)	20.1	282.60416	145.86183	260.23476	4.30132	0.4944138	1.8486841450789
(523686)	9.1	57.33693	339.50762	207.78042	21.31077	0.0933826	20.2589508450790
(523687)	5.5	88.15236	75.85374	35.62155	23.66346	0.0468430	42.9109936450790
(523688)	5.5	86.63957	338.81827	153.42302	10.86327	0.1588973	42.5823215450791
(523689)	6.2	336.28731	208.56690	18.91013	9.35323	0.2240992	47.2892919450791
(523690)	5.3	285.04821	316.19249	303.69780	6.78284	0.0709762	47.3509992450791
(523691)	5.7	349.73396	332.25864	180.61550	4.18024	0.1038405	47.6322248450792
(523692)	3.8	266.52720	329.81872	27.48388	10.24642	0.2248242	52.4914329450792
(523693)	5.0	237.07702	349.30900	346.38805	27.88861	0.1397991	43.7874787450792
(523694)	20.7	319.59676	202.85783	86.26666	8.18453	0.2147344	1.5419924450793
(523695)	6.4	106.03826	336.34236	132.28620	15.17680	0.0953728	33.6481111450793
(523696)	5.5	296.54591	235.48249	54.88388	21.86332	0.0856403	41.5442967450793
(523697)	6.8	34.06196	23.16725	137.30333	16.18526	0.2969545	39.7065530450794
(523698)	6.6	1.46688	302.66912	253.35769	4.74373	0.6181642	90.7234511450794
(523699)	6.1	357.16409	200.03937	31.76034	26.95974	0.3834014	60.2703716450795
(523700)	7.1	18.97151	72.88368	159.85046	54.24972	0.3939533	39.8767352450795
(523701)	7.3	352.64680	172.34721	73.55090	14.43133	0.2481327	39.6773354450795
(523702)	6.0	26.67455	340.96721	222.70231	15.43941	0.1845083	46.6522616450796
(523703)	7.1	355.39314	132.28131	109.88035	14.73652	0.2339129	39.9709197450796
(523704)	7.5	357.72688	186.41157	39.68607	8.96925	0.2488883	39.8173076450796
(523705)	6.5	340.50026	35.62086	231.39989	9.37933	0.3583144	52.9951250450796
(523706)	5.9	347.71159	253.24230	21.46152	9.70334	0.4245053	61.6905036450797
(523707)	21.3	297.67100	206.04974	93.38976	8.48151	0.1910331	1.5649849450797
(523708)	10.9	1.23457	153.23800	131.58096	13.35442	0.3462451	19.3774561450797
(523709)	9.2	339.54706	241.53636	109.03870	39.05618	0.2497749	25.3454968450798
(523710)	9.0	357.87839	83.66469	261.02675	13.80048	0.4454512	33.8511631450798
(523711)	6.9	349.80172	27.26278	306.10756	47.39767	0.2188547	43.4933022450798
(523712)	5.8	358.93984	174.53174	125.90093	15.07707	0.1715060	48.2959012450799
(523713)	6.2	4.90117	49.75355	196.27531	28.83924	0.3629693	56.1841670450799
(523714)	11.4	2.81445	156.34541	128.36936	9.11865	0.2854106	14.7932517450799
(523715)	6.2	46.28389	104.59576	62.02704	6.17565	0.1423084	39.9124833450799
(523716)	6.0	48.61039	52.85860	200.12550	19.33287	0.0861482	40.8672022450800
(523717)	6.4	43.72209	93.36176	96.31214	9.65121	0.2041761	39.7075556450800
(523718)	6.4	1.45659	81.98255	161.06439	18.65237	0.7334693126	2.2450219450801
(523719)	9.9	0.03034	38.27911	246.18096	84.74138	0.9380071270	5.5098267450801
(523720)	8.3	351.03267	159.05227	197.10007	8.70816	0.5509410	36.2751342450801
(523721)	5.3	149.52025	23.06360	146.72184	1.47040	0.0551349	44.0276089450802
(523722)	5.7	349.17510	26.79461	316.71769	10.69105	0.5042730	69.2172202450802
(523723)	5.8	127.68045	202.71151	0.99635	17.45516	0.0553354	40.4083285450803
(523724)	5.2	40.31757	88.19646	200.05070	4.28589	0.0856024	43.5412422450803
(523725)	6.2	10.14692	280.82446	25.48672	7.69269	0.1281706	45.1924088450804
(523726)	6.2	357.81190	252.78492	95.92305	15.50438	0.6898422121	60.5058162450804
(523727)	6.6	294.50559	233.53920	215.76962	20.46449	0.5174953	23.0959252450804
(523728)	22.5	96.29246	335.92244	127.09092	25.69320	0.3416831	1.0033926450805
(523729)	11.1	7.14627	330.44614	45.93307	14.72101	0.5296874	25.4376975450805
(523730)	6.1	315.87468	75.04300	290.24856	9.68090	0.1637828	45.9526332450805
(523731)	6.2	28.03360	247.74310	128.47969	4.13743	0.1597782	42.1184980450806
(523732)	20.6	325.13001	294.05711	275.83204	3.79273	0.4527373	1.2056645450806
(523733)	10.5	359.78611	52.37986	337.40080	7.62029	0.7918780	69.2360735450806
(523734)	8.7	356.93533	234.33745	159.20223	26.49786	0.4029297	31.4805805450807
(523735)	5.5	30.23761	293.46765	43.83274	26.04006	0.0383117	38.3808286450807
(523736)	5.5	344.73973	281.73423	109.32871	27.40835	0.1795412	42.9791845450808
(523737)	20.6	243.92715	243.16199	172.17568	19.53474	0.2449509	1.5596210450808
(523738)	5.4	99.04571	95.28679	202.67370	17.32506	0.1540290	43.0210762450808
(523739)	11.3	4.33739	158.98819	171.78265	85.98599	0.7546258	38.3193676450809
(523740)	9.6	350.28756	270.01379	257.04828	12.22393	0.3269701	21.7694195450809
(523741)	6.6	2.94152	9.32213	42.43665	19.16431	0.2021982	40.8122179450809
(523742)	4.8	154.50006	332.99136	337.06408	14.91011	0.2548537	43.5871986450810
(523743)	6.0	37.31800	139.75632	219.30563	9.31843	0.1039346	42.0640978450810
(523744)	5.8	27.22263	23.28711	65.35036	1.27435	0.0629602	44.0411055450810
(523745)	5.4	159.21083	265.52145	52.82573	1.69592	0.0092735	42.9531387450811
(523746)	9.0	354.51782	119.60578	319.60522	15.20808	0.4713481	30.0446018450811
(523747)	18.8	347.39899	340.61744	175.04417	14.64864	0.7592732	2.2033408450811
(523748)	6.0	271.86592	351.34798	178.89575	18.38395	0.0860772	40.6379993450812
(523749)	5.5	344.49347	208.84839	244.24393	10.69373	0.2177788	50.1037734450812
(523750)	5.0	280.37155	179.47460	318.06163	11.03931	0.1152108	46.5057199450813
(523751)	7.1	357.27098	266.11567	167.21885	15.26776	0.2216662	39.3386630450813
(523752)	5.1	203.07342	339.20343	248.16650	28.67863	0.0486243	40.5690871450813
(523753)	9.5	358.33887	110.93517	34.32104	21.18708	0.7138632	54.4571421450814
(523754)	11.1	351.27882	264.92660	257.67822	11.57442	0.2914622	18.5991282450814
(523755)	7.8	5.20456	150.47324	338.79852	24.21873	0.6998551	78.2333771450814
(523756)	6.0	316.57055	261.88660	201.64930	1.33831	0.0458932	43.5647462450815
(523757)	5.2	67.64135	321.52530	76.51905	18.18923	0.1760536	44.0704442450815
(523758)	5.6	308.11788	94.94945	100.37713	20.95703	0.1438142	42.9958404450816
(523759)	4.4	271.69853	135.36322	41.03260	14.54226	0.2107680	50.7889090450816
(523760)	5.7	226.37959	208.46778	40.80039	9.82655	0.1447515	39.2592525450816
(523761)	5.9	284.84272	335.63683	193.27897	19.61425	0.0733478	41.3891011450817
(523762)	6.2	14.78047	155.52505	333.72653	11.98575	0.1462382	42.7777622450817
(523763)	5.5	192.59211	59.91435	251.37992	15.89731	0.0929739	40.2948823450817
(523764)	7.2	339.69854	289.40412	194.57963	19.54964	0.2499123	39.3409365450818
(523765)	6.0	7.88810	12.21164	79.40885	19.06660	0.3409056	58.0410788450818
(523766)	7.0	18.39725	196.94936	197.18581	26.10194	0.2200385	39.2257572450818
(523767)	6.6	3.87147	213.60469	269.53086	18.64213	0.5755532	77.0641128450819
(523768)	5.6	149.88468	16.41857	334.51789	22.85767	0.1556999	39.5376482450819
(523769)	5.6	30.19224	269.70191	161.88429	8.89950	0.3722570	55.1583110450820
(523770)	8.0	353.30049	23.75879	212.12915	26.84994	0.7273812	59.4143177450820
(523771)	7.1	357.32004	294.36034	258.85327	11.51907	0.7347165104	5.9172176450820
(523772)	5.2	268.04877	279.59688	3.14897	24.79819	0.1435008	43.1153322450821

(523773)	5.4	31.36782	262.71127	186.67380	27.52999	0.1652039	42.4321792450821
(523774)	6.1	350.01820	63.38427	93.34562	36.42168	0.4254770	61.0027793450822
(523775)	19.0	56.35215	188.62593	3.76296	12.64300	0.4834617	1.8763212450822
(523776)	6.1	343.91969	37.42070	104.05387	28.65318	0.0949571	41.5662651450824
(523777)	5.4	358.12127	87.17891	72.95551	18.20290	0.5558579	80.4029036450824
(523778)	5.9	358.71161	169.39652	27.91640	29.57981	0.6770263	120.6475593450825
(523779)	17.9	305.74121	221.03721	182.20240	9.25313	0.5556426	2.4552018450825
(523780)	5.2	265.60317	225.37382	53.38817	17.45192	0.1427494	42.0873240450826
(523781)	19.9	179.46857	169.19312	320.18907	12.62447	0.2894475	1.6613877450826
(523782)	9.4	0.89530	168.84873	344.06969	17.17620	0.3030539	23.3541552450826
(523783)	12.0	1.60457	10.67021	213.63769	1.81699	0.3067606	14.6746670450827
(523784)	8.3	277.29730	324.63652	328.49607	6.42362	0.3138849	21.5968797450827
(523785)	12.8	22.06215	163.48681	314.91556	16.75813	0.5083830	14.1473204450828
(523786)	18.4	339.36061	93.16739	145.35893	59.47548	0.3661142	1.9886241450828
(523787)	7.8	12.01248	278.02380	209.35820	29.41303	0.6106144	56.7378013450828
(523788)	19.4	315.45543	107.70740	201.78739	2.65840	0.5501073	2.1209240450829
(523789)	6.2	321.52973	116.04106	172.47630	27.94888	0.0982510	42.1954086450830
(523790)	10.4	28.12232	36.32557	140.79495	3.06899	0.2739578	18.2823171450830
(523791)	12.4	30.70162	140.32931	58.74652	33.24623	0.2937109	11.5867657450830
(523792)	18.4	134.05737	188.83881	274.93529	32.13980	0.5222777	1.3358088450831
(523793)	6.0	275.35752	310.71448	117.52359	30.32197	0.0849575	40.5356015450831
(523794)	3.8	323.27090	261.30037	211.66165	7.58086	0.5840647	81.2719495450831
(523795)	20.4	311.91625	46.73729	262.88304	3.70690	0.4824359	2.1371469450832
(523796)	20.0	22.55378	342.80584	91.88330	30.93372	0.6614669	1.0956126450832
(523797)	11.4	1.39872	345.54156	350.01437	144.03406	0.8568057	73.4955572450832
(523798)	11.2	0.55228	163.10386	315.87739	72.02131	0.8583426	73.7710512450833
(523799)	17.7	292.75316	227.96170	138.25098	57.30484	0.3679312	1.7551999450833
(523800)	10.2	1.20676	301.04036	144.81125	161.69532	0.7935442	53.0936252450833

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2003 SW_{431} = 2009 SS_{365}	*MPO* 261809
2006 HU_{24} = 2007 TE_{422}	*MPO* 265668
2006 UW_{85} = 2014 HK_{200}	*MPO* 424558
2007 VC_{83} = 2007 VF_{271}	*MPO* 130350
2008 RT_{79} = 2008 RR_{133}	*MPO* 265633
2008 RW_{79} = 2008 RU_{132}	*MPO* 364682
2008 SZ_{25} = 2012 XC_{35}	*MPO* 246885
2008 XR_{26} = 2007 PB_{19}	*MPO* 160592
2009 SD_{369} = 2009 SE_{369}	*MPO* 438590
2010 AY_{139} = 2015 HC_{16}	*MPO* 336523
2012 DR_{76} = 2007 YL_{61}	*MPO* 228956
2012 FL_{48} = 2010 UM_{105}	*MPO* 363791

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement.*

1996 TF_{32} = 2009 SU_{370}
1998 KF_{6} = 2013 JT_{6}
1998 RO_{81} = 2010 NA_{34}
1998 UM_{1} = 2018 RP_{4}
1998 UF_{51} = 2008 WR_{112}
1998 VQ = 2011 VM_{1}
2000 CK_{143} = 2017 BC_{56}
2001 FR_{207} = 2017 ST_{130}
2001 PS_{67} = 2012 BM_{130} = 2013 GE_{86} = 2014 NS_{58}
2001 SK_{42} = 2018 RX_{12}
2001 TC_{145} = 2018 RJ_{26}
2002 LH_{2} = 2018 LS_{10}
2002 MD_{8} = 2012 UA_{129} = 2016 QQ_{80}
2002 NH_{83} = 2011 RZ_{3}
2002 NK_{83} = 2003 YW_{136}
2002 NL_{83} = 2015 YP_{12}
2002 NM_{83} = 2014 OE_{380}
2002 NN_{83} = 2014 WV_{396} = 2016 CV_{252}
2002 PN_{203} = 2010 BC_{93} = 2014 MH_{45}
2002 PP_{203} = 2015 TD_{120}
2002 PR_{203} = 2004 BH_{141}
2002 QZ_{157} = 2011 BM_{118}
2002 QA_{158} = 1998 MR_{1} = 2008 AY_{125}
2002 QC_{158} = 2010 MC_{21} = 2013 CY_{99}
2002 QE_{158} = 2008 UE_{239} = 2010 GB_{38}
2002 QF_{158} = 2015 AR_{97}
2002 QG_{158} = 2016 AB_{68}
2002 QK_{158} = 2010 JU_{69}
2002 RB_{297} = 2011 BT_{77}
2002 RD_{297} = 2011 GP_{8} = 2012 LP_{21}
2002 RE_{297} = 2009 WO_{231}
2002 VB_{149} = 2018 RO_{27}
2003 SH_{239} = 2014 QG_{482}
2003 SS_{349} = 2014 QX_{488}
2004 RW_{1} = 2018 MK_{6}
2004 RJ_{55} = 2018 RH_{26}
2004 RX_{163} = 2018 RQ_{9}
2004 XT_{75} = 2018 PS_{2}
2005 CC_{82} = 2015 PY_{147}
2005 JH_{5} = 2014 QR_{490}
2005 JX_{63} = 2013 OL_{2} = 2018 LO_{8}
2005 NA_{9} = 2018 PJ_{7}
2005 NZ_{34} = 2018 MM_{4}
2005 QJ_{191} = 2001 QK_{304}
2005 SR_{10} = 2018 RT_{22}
2005 SL_{133} = 2018 RL_{12}
2005 TW_{117} = 2018 RR_{27}
2005 UV_{139} = 2014 QK_{487}
2005 UN_{400} = 2005 VW_{96} = 2018 ML_{3}
2005 WY_{76} = 2018 PE_{2}
2005 YV_{84} = 2018 RG_{25}
2005 YF_{161} = 2014 QJ_{486}
2005 YD_{192} = 2014 PO_{80}
2006 BG_{286} = 2007 JX_{27}
2006 DR_{175} = 2004 TY_{166} = 2018 PN_{17}
2006 EA_{1} = 2018 MD_{5}

2006 EK_{76} = 2014 BW_{56}
2006 FF_{56} = 2010 CA_{201}
2006 HD_{155} = 2010 AY_{138}
2006 JP_{82} = 2000 TX_{13}
2006 KZ_{145} = 2010 KB_{71}
2006 KD_{146} = 2010 LA_{12} = 2010 LV_{39}
2006 KG_{146} = 2010 WZ_{12}
2006 OK_{38} = 2010 LE_{80} = 2015 HA
2006 QM_{188} = 2002 XN_{113}
2006 SJ_{30} = 2014 PV_{78}
2006 SQ_{422} = 2010 ON_{52}
2006 SS_{422} = 2001 TN_{232}
2006 SW_{422} = 2010 CS_{133}
2006 SD_{423} = 2011 UX_{343}
2006 SU_{423} = 2010 LH_{58}
2006 TA_{82} = 2018 LK_{14}
2006 TN_{131} = 2002 NT_{62}
2006 TC_{132} = 2010 PG_{65}
2006 TS_{132} = 2006 TY_{58}
2006 TT_{132} = 2003 YS_{123}
2006 UB_{4} = 2014 QD_{479}
2006 UJ_{364} = 2010 TQ_{137}
2006 UN_{364} = 2005 NT_{40}
2006 UA_{365} = 2010 JQ_{135}
2006 UK_{365} = 2001 OO_{112} = 2010 HY_{51}
2006 VE_{144} = 2014 QV_{477}
2006 WV_{130} = 2010 KL_{15}
2006 WM_{137} = 2014 PQ_{79}
2006 WE_{209} = 2007 CV_{71}
2006 XR_{74} = 2010 EE_{163}
2006 XS_{74} = 1997 AO_{11}
2006 YZ_{56} = 2018 CE_{15}
2006 YC_{57} = 2010 OG_{89}
2006 YD_{57} = 2006 WO_{157}
2007 BZ_{103} = 2005 NW_{106}
2007 CL_{80} = 2010 VV_{1}
2007 DB_{90} = 2018 RK_{17}
2007 DA_{119} = 2014 BP_{59}
2007 DC_{119} = 2010 JT_{140}
2007 DK_{119} = 2010 FC_{111}
2007 DR_{119} = 2005 SZ_{134} = 2010 JQ_{6}
2007 EX_{226} = 1995 UA_{68}
2007 EH_{227} = 2016 LQ_{5}
2007 FX_{52} = 2010 DT_{60}
2007 FB_{53} = 2014 AP_{55}
2007 FF_{53} = 2004 RF_{312}
2007 GW_{46} = 2014 QJ_{493}
2007 GA_{78} = 2015 HO_{105}
2007 HF_{100} = 2010 BW_{42}
2007 JL_{45} = 2018 MP_{4}
2007 JY_{46} = 2010 GE_{149}
2007 PE_{51} = 1995 FJ_{7}
2007 PF_{51} = 2011 WF_{126}
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2007 RB_{86} = 2018 RR_{9}
2007 RX_{139} = 2007 TR_{338}
2007 RP_{174} = 2018 PS_{17}
2007 RB_{290} = 2018 QH_{5}
2007 RE_{329} = 2004 BK_{45}
2007 RJ_{329} = 2003 GY_{17}
2007 RP_{329} = 2003 FH_{7} = 2014 ES_{199}
2007 RU_{330} = 2003 SO_{388}
2007 RH_{331} = 2011 ST_{9}
2007 RU_{331} = 2002 TP_{320}
2007 RK_{332} = 1997 SA_{26}
2007 TK_{75} = 2018 RG_{26}
2007 TJ_{164} = 2018 RN_{15}
2007 TF_{168} = 2013 XM_{6} = 2018 RY_{13}
2007 TO_{456} = 2002 TB_{356}
2007 TS_{456} = 2002 JM_{9}
2007 TA_{458} = 2005 CR_{70}
2007 TH_{458} = 2002 UZ_{64}
2007 TO_{458} = 2003 WH_{63}
2007 TV_{458} = 2014 GU_{17}
2007 TA_{459} = 2006 KA_{25}
2007 UV_{7} = 2018 QR_{6}
2007 UV_{29} = 2014 QB_{489}
2007 UB_{64} = 2014 QL_{489}
2007 UV_{143} = 2014 ED_{191}
2007 UY_{143} = 2010 KL = 2012 NJ_{1}
2007 UJ_{144} = 2010 EM_{8}
2007 UM_{144} = 2003 SV_{165}
2007 UN_{144} = 2006 KX_{13}
2007 UD_{145} = 2009 BP_{129}
2007 UF_{145} = 2010 BF_{72} = 2010 NO_{64}
2007 UP_{145} = 2017 MT
2007 UT_{145} = 2014 ES_{193}
2007 UV_{145} = 2013 HQ_{132}
2007 VW_{85} = 2018 RY_{10}
2007 VS_{340} = 2014 EK_{86}
2007 VU_{340} = 2010 DK_{67}
2007 VL_{341} = 2013 AE_{168}
2007 VZ_{341} = 2012 XJ_{104}
2007 VG_{342} = 2006 RW_{12}
2007 XT_{60} = 2001 RF_{16}
2007 YX_{75} = 2010 PF_{32}
2007 YM_{76} = 2014 EN_{168}
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2007 YT_{76} = 2017 PV_{15}
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2008 AU_{124} = 2017 PO_{8}
2008 AN_{133} = 2018 QK_{5}
2008 AS_{139} = 2010 GU_{149}
2008 AB_{140} = 2017 SL_{36}

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2008 CX_{218} = 1999 FT_{65}
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2008 UQ_{313} = 2018 RC_{24}
2008 VV_{82} = 2016 CN_{87}
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2008 WH_{89} = 2018 NN_{15}
2008 WE_{144} = 2010 FA_{28}
2008 XL_{57} = 2010 JW_{80}
2008 YO_{79} = 2018 BB_{1}
2009 AH_{9} = 2018 RB_{11}
2009 BE_{193} = 2012 WC_{3}
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2009 DN_{146} = 2013 HU_{130}
2009 FO_{81} = 2005 GZ_{153} = 2013 JB_{6}
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2009 RK_{42} = 2014 WM_{302} = 2018 RO_{21}
2009 SJ_{76} = 2018 RO_{24}
2009 SK_{372} = 2010 WM_{60}
2009 SL_{372} = 2008 PZ_{14}
2009 SM_{372} = 2010 AT_{132}
2009 SO_{372} = 1995 SY_{67}
2009 SP_{372} = 2010 AY_{139}
2009 WC_{5} = 2014 QY_{490}
2009 WP_{179} = 2014 QA_{494}
2010 AX_{32} = 2010 GF_{71}
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2010 AR_{142} = 2014 BO_{21} = 2016 TA_{31}
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2010 AQ_{143} = 2011 HX_{88}
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2010 CK_{252} = 2010 LD_{131}
2010 DW_{5} = 2010 CG_{252}
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2010 RZ_{189} = 1996 RL_{23} = 2017 PB_{14}
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2018 LL_{9} = 2014 KJ_{68}
2018 LN_{9} = 2014 SJ_{68} = 2017 BZ_{79}
2018 LY_{9} = 2014 SE_{217}
2018 LC_{10} = 2015 XY_{256}
2018 LF_{10} = 2010 BN_{82} = 2014 UF_{155}
2018 LT_{10} = 2011 LA_{5}
2018 LD_{11} = 2010 KM_{63}
2018 LH_{11} = 2015 XT_{21}
2018 LJ_{11} = 2015 VQ_{131}
2018 LK_{11} = 2014 OQ_{265}
2018 LN_{11} = 2006 SV_{111} = 2010 NS_{117} = 2016 AE_{172}
2018 LV_{11} = 2014 QK_{440}
2018 LY_{11} = 2015 XQ_{359}
2018 LR_{12} = 2014 SQ_{38}
2018 LX_{12} = 2012 DM_{7} = 2017 BR_{118}
2018 LE_{13} = 2005 OL_{18} = 2011 HX_{69}
2018 LJ_{15} = 2017 FX_{93}
2018 LZ_{15} = 2005 UD_{317} = 2012 WO_{17} = 2015 PD_{76}
2018 MF = 2016 MT
2018 MY = 2016 AT_{188}
2018 MK_{1} = 2017 BB_{54}
2018 MN_{1} = 2015 XZ_{231}
2018 ME_{3} = 2015 TV_{320}
2018 MD_{4} = 2016 CO_{65}
2018 MK_{4} = 2008 CN_{170} = 2012 PG_{33}
2018 MO_{4} = 2000 HC_{79}
2018 MM_{5} = 2014 WS_{69}
2018 MU_{5} = 2013 RP_{94}
2018 MA_{6} = 2008 XN_{19} = 2017 JU_{5}
2018 MD_{6} = 2011 UH_{91} = 2016 TQ_{55} = 2016 VR_{3}
2018 MJ_{6} = 2008 UV_{286} = 2014 WA_{78}
2018 MP_{6} = 2015 VH_{89}
2018 ML_{7} = 2014 NA_{36}
2018 MS_{7} = 2014 WW_{311}
2018 MY_{7} = 2014 QT_{39}
2018 MD_{8} = 2016 AY_{173}
2018 ME_{8} = 2001 PQ_{48}
2018 NB = 2003 KT_{24}
2018 NG = 2014 MK_{18}
2018 NK = 2002 QX_{5}
2018 NP = 2010 FO_{74} = 2014 YB_{19}
2018 NT = 2014 MU_{2}
2018 NY_{1} = 1994 AR_{13}
2018 ND_{2} = 2012 KF_{45}
2018 NL_{2} = 2007 CM_{18}
2018 NN_{2} = 2010 PA_{2}
2018 NB_{3} = 2010 BB_{18}
2018 NF_{3} = 2012 FJ_{23}
2018 NY_{3} = 2010 LV
2018 NZ_{3} = 2007 DK_{49}
2018 NP_{4} = 2013 UB_{2}
2018 NV_{4} = 2005 UF_{477}
2018 NA_{5} = 2010 FN_{60} = 2014 WZ_{392}
2018 NG_{5} = 2014 SH_{95}
2018 NJ_{5} = 2004 VG_{96}
2018 NK_{5} = 2015 TA_{226}
2018 NL_{5} = 2008 RB_{76}
2018 NN_{5} = 2005 NC_{15}
2018 NQ_{5} = 2016 TV_{2}
2018 NY_{5} = 2007 AA_{6}
2018 NZ_{5} = 2015 RH_{124}

2018 NE_{6} = 2013 EX_{87} = 2014 MX_{20}
2018 NF_{6} = 2014 FT_{67}
2018 NK_{7} = 2007 SW_{6}
2018 NM_{7} = 2006 DV_{192}
2018 NO_{7} = 2003 SP_{419}
2018 NH_{8} = 2014 QJ_{398}
2018 NQ_{8} = 2015 BW_{373}
2018 NX_{8} = 2012 XY_{90}
2018 NQ_{9} = 2013 QB_{63} = 2016 CB_{207}
2018 NR_{9} = 2008 UM_{289}
2018 NS_{9} = 2014 RO_{36}
2018 NP_{10} = 2016 AC_{83}
2018 NQ_{10} = 2013 PA_{15}
2018 NT_{11} = 2014 WK_{453}
2018 NV_{11} = 2008 VW_{68} = 2017 KS_{13}
2018 NB_{13} = 2015 XH_{218}
2018 NE_{13} = 2012 GQ_{36} = 2017 FK_{118}
2018 NO_{13} = 2001 QX_{271}
2018 NQ_{13} = 2010 FD_{90} = 2010 JS_{153} = 2011 UH_{349} = 2013 AN_{85} = 2014 MB_{69}
2018 NU_{13} = 2004 RQ_{89} = 2011 QE_{8}
2018 NB_{14} = 2014 OT_{73}
2018 NG_{14} = 2004 RB_{174}
2018 NV_{14} = 2004 BF_{153}
2018 NB_{15} = 2005 SZ_{8}
2018 NP_{15} = 2008 WU_{34}
2018 OU = 2007 NX
2018 OC_{1} = 2015 BU_{556}
2018 OE_{1} = 2003 SJ_{267} = 2010 NK_{115}
2018 PA = 2016 BB_{1}
2018 PT_{6} = 2014 WS_{94}
2018 PE_{8} = 2014 WS_{488}
2018 PW_{9} = 2014 WA_{362}
2018 PH_{11} = 2015 XN_{28}
2018 PS_{11} = 2015 TF_{285}
2018 PX_{11} = 2014 SS_{12}
2018 PK_{12} = 2014 FD_{65}
2018 PQ_{13} = 2012 FL_{48}
2018 PC_{14} = 2001 SR_{297}
2018 PW_{14} = 2014 SV_{190}
2018 PF_{16} = 2015 TX_{339}
2018 PP_{16} = 2015 BB_{335}
2018 PR_{16} = 2015 XQ_{224}
2018 PO_{17} = 2007 CQ_{68} = 2014 EZ_{92}
2018 PJ_{18} = 2005 MB_{45}
2018 PW_{19} = 2013 OJ_{11}
2018 PG_{20} = 2010 RA_{53}
2018 PU_{20} = 2014 OE_{339}
2018 PT_{21} = 2000 QO_{70}
2018 PW_{22} = 2014 WD_{125} = 2018 LB_{4}
2018 PZ_{22} = 2016 PW
2018 PE_{23} = 2014 QT_{494}
2018 PA_{24} = 2015 NQ_{13}
2018 PV_{25} = 2002 TT_{100}
2018 PE_{26} = 2016 EP_{43}
2018 PG_{26} = 2010 GH_{20}
2018 PH_{26} = 2007 TK_{167}
2018 PL_{26} = 2013 QD_{67}
2018 PN_{26} = 2014 QQ_{230} = 2015 XR_{367}
2018 PR_{27} = 2015 DR_{100}
2018 PS_{27} = 2010 FF_{74}
2018 PU_{27} = 2014 SA_{128}
2018 PV_{27} = 2014 QR_{116}
2018 PJ_{28} = 2007 UF_{7}
2018 QL = 2018 NZ_{2}
2018 QX_{1} = 2010 OE_{60} = 2012 BL_{57}
2018 QF_{2} = 2013 TZ_{69}
2018 QQ_{2} = 2000 SO_{190}
2018 QR_{2} = 2011 SG_{20}
2018 QS_{2} = 2014 SA_{169}
2018 QU_{2} = 2013 WG_{101}
2018 QF_{3} = 2009 SK_{323}
2018 QG_{3} = 2015 BE_{471}
2018 QH_{3} = 2005 TL_{140}
2018 QJ_{3} = 2006 WE_{148}
2018 QK_{3} = 2006 HV_{76} = 2015 AT_{214} = 2016 CE_{214}
2018 QN_{3} = 2015 VK_{51}
2018 QD_{4} = 2011 NN = 2012 XC_{110}
2018 QF_{4} = 2014 UV_{198} = 2017 FS_{155}
2018 QZ_{4} = 2013 WL_{26}
2018 QB_{5} = 2002 YO_{33} = 2010 LD_{6}
2018 QC_{5} = 2009 TT_{34}
2018 QD_{5} = 2014 UV_{219}
2018 QE_{5} = 2001 TQ_{223} = 2008 UF_{298} = 2015 XX_{131}
2018 QO_{5} = 2016 AW_{44}
2018 QP_{5} = 2008 WR_{14}
2018 QT_{5} = 2015 BJ_{44}
2018 QW_{5} = 2005 QU_{148} = 2017 FC_{131}
2018 QY_{5} = 2007 GZ_{29} = 2011 OW_{22}
2018 QC_{6} = 2016 EW_{163}
2018 QG_{6} = 2008 XL_{13}
2018 QH_{6} = 2014 KN_{24}
2018 QJ_{6} = 2011 SA_{116}
2018 QM_{6} = 2015 BX_{475}
2018 QQ_{6} = 2012 BK_{147} = 2014 TK_{55} = 2017 FQ_{99}
2018 QV_{6} = 2003 WD_{52} = 2013 SX_{50}
2018 QW_{6} = 2007 TG_{111}
2018 RK = 2018 LC_{4}
2018 RT = 2016 GM_{127}
2018 RU = 2014 PS_{62}
2018 RG_{1} = 2000 VZ_{39}
2018 RP_{2} = 2018 PW_{24}
2018 RT_{2} = 2010 XK_{68} = 2014 WY_{358}
2018 RJ_{4} = 2003 RD_{2} = 2018 RD
2018 RU_{4} = 2011 BK_{82} = 2018 QS_{6}

2018 $RV_{4} = 2014\ XX_{23}$
2018 $RX_{4} = 2004\ JE_{45}$
2018 $RP_{6} = 2015\ AC_{22}$
2018 $RB_{9} = 2005\ YE_{81}$
2018 $RC_{9} = 2015\ DE_{87}$
2018 $RE_{9} = 2014\ WP_{220}$
2018 $RS_{9} = 2011\ MC_{9} = 2015\ XH_{223}$
2018 $RT_{9} = 2010\ BX_{100} = 2014\ WH_{381}$
2018 $RU_{9} = 2004\ RS_{305} = 2010\ GR_{142}$
2018 $RW_{9} = 2007\ HR_{5}$
2018 $RY_{9} = 2003\ WZ_{109} = 2010\ GW_{10} = 2014\ SO_{3}$
2018 $RQ_{10} = 2005\ US_{432} = 2014\ WE_{76}$
2018 $RF_{11} = 2010\ TQ_{177}$
2018 $RG_{11} = 2012\ MC_{1}$
2018 $RH_{11} = 2012\ PH_{34} = 2014\ WR_{360}$
2018 $RM_{11} = 2016\ AZ_{180}$
2018 $RN_{11} = 2007\ NG_{4} = 2016\ CB_{129}$
2018 $RF_{12} = 2014\ WY_{214}$
2018 $RM_{12} = 2011\ HF_{62}$
2018 $RN_{12} = 2010\ JH_{76}$
2018 $RT_{12} = 2007\ RV_{186}$
2018 $RF_{13} = 2011\ WD_{31}$
2018 $RG_{13} = 2005\ UN_{501} = 2009\ PL_{6}$
2018 $RH_{13} = 2016\ EF_{76}$
2018 $RJ_{13} = 2015\ XJ_{262}$
2018 $RL_{13} = 2014\ TY_{64}$
2018 $RN_{13} = 2010\ CE_{117}$
2018 $RT_{13} = 2001\ RO_{106}$
2018 $RW_{13} = 2009\ DQ_{115}$
2018 $RX_{13} = 2001\ OD_{36} = 2007\ RT_{185} = 2015\ BQ_{499}$
2018 $RZ_{13} = 2016\ EL_{162}$
2018 $RG_{14} = 2008\ EU_{123} = 2010\ PC_{28} = 2014\ QJ_{331}$
2018 $RM_{14} = 2003\ SP_{354}$
2018 $RN_{14} = 2010\ GW_{75} = 2014\ OV_{268}$
2018 $RQ_{14} = 2000\ QC_{175}$
2018 $RR_{14} = 2004\ TW_{168}$
2018 $RS_{14} = 2016\ EL_{198}$
2018 $RT_{14} = 2014\ UT_{137}$
2018 $RX_{14} = 2011\ WL_{93}$
2018 $RZ_{14} = 2010\ KZ_{110} = 2011\ HO_{99}$
2018 $RB_{15} = 2007\ PX_{32}$
2018 $RC_{15} = 2001\ TR_{263}$
2018 $RS_{15} = 2013\ HR_{113}$
2018 $RV_{15} = 2003\ YU_{54} = 2014\ RH_{2} = 2016\ BM_{72}$
2018 $RG_{16} = 2016\ CG_{44}$
2018 $RH_{16} = 2011\ UT_{74} = 2015\ XL_{294}$
2018 $RJ_{16} = 2000\ TE_{49} = 2011\ WG_{47} = 2016\ AR_{11} = 2017\ HG_{8}$
2018 $RK_{16} = 2011\ YB_{53}$
2018 $RM_{16} = 2010\ RE_{76}$
2018 $RN_{16} = 2016\ CR_{66}$
2018 $RO_{16} = 2008\ YA_{49}$
2018 $RX_{16} = 2002\ SC_{74} = 2016\ GA_{77}$
2018 $RZ_{16} = 1995\ WS_{18} = 2010\ AY_{72} = 2015\ VB_{134}$
2018 $RB_{17} = 2014\ WU_{360}$
2018 $RE_{17} = 2007\ RO_{246} = 2008\ YW_{77} = 2015\ AE_{234}$
2018 $RN_{17} = 2015\ VT_{109}$
2018 $RP_{17} = 2004\ JC_{56} = 2017\ DB_{32}$
2018 $RQ_{17} = 2014\ OT_{299}$
2018 $RS_{17} = 2010\ OH_{89}$
2018 $RT_{17} = 2003\ TG_{47}$
2018 $RU_{17} = 2014\ NZ_{19} = 2016\ CE_{111}$
2018 $RV_{17} = 2011\ FV_{119} = 2016\ CE_{122}$
2018 $RY_{17} = 2006\ SS_{46}$
2018 $RA_{18} = 2007\ PB_{19} = 2010\ CK_{174}$
2018 $RK_{18} = 2007\ BY_{83} = 2016\ CF_{157}$
2018 $RQ_{18} = 2014\ SX_{263}$
2018 $RV_{18} = 2011\ UX_{125} = 2016\ AE_{83}$
2018 $RJ_{19} = 2000\ TK_{37} = 2007\ MT_{14}$
2018 $RX_{19} = 2015\ XR_{108}$
2018 $RZ_{19} = 2008\ QR_{28}$
2018 $RU_{20} = 2014\ WS_{341}$
2018 $RA_{21} = 2010\ CD_{225} = 2015\ FM_{49}$
2018 $RY_{21} = 2015\ XK_{211}$
2018 $RZ_{21} = 2004\ TX_{281}$
2018 $RD_{22} = 2000\ QP_{34} = 2012\ DZ_{60}$
2018 $RF_{22} = 2008\ YF_{73} = 2010\ LS_{38} = 2015\ DB_{5}$
2018 $RL_{22} = 1995\ GH_{1} = 2011\ GP_{46}$
2018 $RP_{22} = 2017\ DS_{14}$
2018 $RY_{22} = 1999\ VV_{197} = 2017\ FH_{140}$
2018 $RB_{23} = 2016\ AC_{13}$
2018 $RH_{23} = 2006\ MZ_{3}$
2018 $RM_{23} = 2014\ UO_{147}$
2018 $RO_{23} = 2013\ QF_{69}$
2018 $RP_{23} = 2010\ WS_{56} = 2014\ WF_{500}$
2018 $RS_{23} = 2013\ PD_{69}$
2018 $RV_{23} = 2013\ VO_{19} = 2015\ DJ_{188}$
2018 $RA_{24} = 2016\ JT_{12}$
2018 $RM_{24} = 1999\ FK_{80} = 2015\ DU_{104}$
2018 $RN_{24} = 2001\ PO_{56} = 2014\ QK_{435} = 2014\ WD_{507}$
2018 $RP_{24} = 2014\ PM_{23} = 2016\ CS_{26}$
2018 $RQ_{24} = 2015\ TF_{106}$
2018 $RX_{24} = 2002\ GQ_{188} = 2006\ JZ_{61} = 2009\ SP_{325} = 2013\ PJ_{19} = 2015\ BJ_{49} = 2016\ GV_{160}$
2018 $RB_{25} = 1999\ VS_{213} = 2013\ JG_{45}$
2018 $RE_{25} = 2000\ SB_{373} = 2009\ SX_{218}$
2018 $RK_{26} = 2016\ AX_{43}$
2018 $RL_{26} = 2015\ BH_{115}$
2018 $RB_{27} = 2008\ QN_{28}$
2018 $RF_{27} = 1995\ UT_{69}$
2018 $RP_{27} = 2012\ KM_{21}$
2018 $SA = 2015\ FH_{332}$
2018 $SD = 2018\ NC_{1}$
2018 $SE = 2014\ SN_{262}$
2018 $SW = 2010\ PA_{66}$

NEW NAMES OF MINOR PLANETS

(5849) Bhanji = 1990 HF_1

Discovered 1990 Apr. 27 by E. F. Helin at Palomar.

Alaudin Bhanji (b. 1951) is a JPL engineer and Project Manager for NASA's Deep Space Network (DSN). He has ensured that the DSN's capabilities continue to enable communications with spacecraft throughout the solar system as well as providing radar characterizations of solar system bodies, including numerous asteroids.

(6756) Williamfeldman = 1978 VX_3

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

William C. Feldman (b. 1940) is the father of planetary neutron spectroscopy. His ingeniously designed instruments found evidence for ice at the lunar poles, Mercury's north pole, and in the high-latitude subsurface of Mars. He is loved for his open and generous collaborations and unrelenting enthusiasm for science.

(6812) Robertnelson = 1978 VJ_8

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Robert M. Nelson (b. 1943) has advanced the understanding of spectrophotometric and angular scattering properties of planetary regoliths, served on Voyager and Cassini instrument teams, and was the Project Scientist for Deep Space 1. He is a strong advocate for scientist privacy rights.

(6813) Amandahendrix = 1978 VV_9

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Amanda R. Hendrix (b. 1968) has used UV spectroscopy to expand our knowledge of icy satellites, the Moon, asteroids, Mars and Io, by revealing surface compositions, weathering processes and radiation products. She was Cassini Deputy Project Scientist, worked on LRO LAMP, and assessed Europa missions.

(7773) Kyokuchiken = 1992 FS

Discovered 1992 Mar. 23 by K. Endate and K. Watanabe at Kitami.

Kyokuchiken is the shortened Japanese name for the National Institute of Polar Research (NIPR). NIPR engages in research via its observation stations in the Arctic and Antarctica. NIPR is also an inter-university research institute that supports researchers and works to promote polar science.

(7922) Violalaurenti = 1983 CO_3

Discovered 1983 Feb. 12 by H. Debehogne and G. De Sanctis at the European Southern Observatory.

Viola Laurenti (b. 2015) is the first grand-daughter of Mario Di Martino, astronomer at the Turin Astrophysical Observatory and colleague and friend of the discoverers.

(8153) Gattacceca = 1986 WO_1

Discovered 1986 Nov. 25 by A. Mrkos at Kleť.

Jérôme Gattacceca (b. 1973) is a research scientist based in CEREGE à Aix-en-Provence, France. Jérôme is an expert on the magnetic signatures of meteorites and Moon rocks. He leads meteorite recovery missions to the Atacama desert in Chile, and is the head of the Meteoritical Society nomenclature committee.

(11821) Coleman = 1981 EG_{44}

Discovered 1981 Mar. 6 by S. J. Bus at Siding Spring.

Paul Henry Ikaika Coleman (1955–2018) was the first Native Hawaiian to earn a doctorate in astrophysics for his study of distant galaxies. He was a passionate advocate for astronomy and was dedicated to increasing Native Hawaiian participation in the sciences. Me ou mau kūpuna e Paul e hoʻokele aku ai i nā moana hōkū ākea.

(13911) Stempels = 1979 QT_1

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Eric Stempels (b. 1974) is an astronomer at Uppsala University. He operates a meteor camera and is largely involved in outreach activities.

(14445) Koichi = 1992 UZ_3

Discovered 1992 Oct. 26 by K. Endate and K. Watanabe at Kitami.

Koichi Nishimura (b. 1943) is the chairman of the telescope manufacturing company that bears his name. Nishimura began manufacturing reflecting telescopes in 1926. Since then, their telescopes,have been installed in science museums and astronomical observatories throughout Japan.

(16319) Xiamenerzhong = 3252 T-1

Discovered 1971 Mar. 26 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Named for the Xiamen No. 2 Middle School of Fujian, China, which has cultivated thousands of successful people in all walks of life since 1870, incorporating football, English, and music into school education. Name suggested by D.-h. Chen, a student of the school during 1961–1967.

(19135) Takashionaka = 1988 XQ

Discovered 1988 Dec. 3 by K. Endate and K. Watanabe at Kitami.

Takashi Onaka (b. 1952) is a professor of infrared astronomy at the University of Tokyo. He is known for his comprehensive study of the interplanetary, circumstellar and interstellar dust based on ground-based/space-borne observations, theoretical approaches and laboratory experiments.

(19917) Dazaifu = 1977 EE_8

Discovered 1977 Mar. 12 by H. Kosai and K. Hurukawa at Kiso.

In the second half of the 7th century, the Dazaifu government office was in charge of the Kyushu area and the two islands of Iki and Tsushima, and it was a base of defense and diplomatic relations at that time. The corner stones of the remains of the capital towers 'tofuro' remain in Dazaifu city.

(20664) Senec = 1999 UV_4

Discovered 1999 Oct. 31 by A. Galád and J. Tóth at Modra.

The town of Senec is located in the south-west of Slovakia. The historical development of the town is dated from the middle of the 13th century. Senec actively supports amateur astronomy. In 1982 an astronomical observatory was built on the building of Albert Molnár Szenczi Elementary School.

(21187) Setsuo = 1994 FY

Discovered 1994 Mar. 31 by K. Endate and K. Watanabe at Kitami.

Setsuo Fukushima (b. 1961) was moved by astronomical images he first saw in middle school. His work as a volunteer lecturer at the Children's Astronomical Classroom at the Takamatsu City Planetarium spans over ten years.

(22292) Mosul = 1989 SM_1

Discovered 1989 Sept. 26 by E. W. Elst at the European Southern Observatory.

Mosul is a city on the Tigris in northern Iraq , 400 km north of Baghdad. The area of Mosul was a part of Assyria from the 25th century BCE. Famous for its Grand Mosque, Mosul's craftsmen were admired for their metalwork, using gold and silver for inlay on bronze and brass.

(22499) Wunibaldkamm = 1997 MP_9

Discovered 1997 June 27 by Spacewatch at Kitt Peak.

Wunibald Kamm (1893–1966) developed aerodynamic designs that reduce turbulence at high speeds for automobiles, including the widely-seen Kammback or Kamm-tail.

(25905) Clerico = 2000 YO_{134}

Discovered 2000 Dec. 31 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Domenico Clerico (1950–2017), from the Langhe region of Piemonte, was a world-famous Italian winemaker. Name suggested by E. Bowell, A. W. Harris (JPL) and V. Zappalà.

(25915) Charlesmcguire = 2001 CF_{30}

Discovered 2001 Feb. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Charles J. McGuire (b. 1932) is a retired aerospace engineer from the Mercury, Gemini and Apollo era, and is the grandfather of planetary scientist Elisabeth R. Adams.

(25958) Battams = 2001 FF_{18}

Discovered 2001 Mar. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Karl Battams (b. 1979) is an astrophysicist and computational scientist at the U.S. Naval Research Laboratory in Washington, D.C. He has been in charge of the Sungrazer Project since 2003, overseeing most of the project's 3400+ sungrazing comet discoveries, and has contributed to the study of numerous near-Sun comets.

(25960) Timheckman = 2001 FQ_{20}

Discovered 2001 Mar. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Timothy Martin Heckman (b. 1951), an astrophysicist at Johns Hopkins University, is a highly cited researcher who has concentrated on the evolution of galaxies and supermassive black holes. A multi-wavelength observer, he was involved in development of the Sloan Digital Sky Survey and the Galaxy Evolution Explorer.

(26283) Oswalt = 1998 ST_{58}

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Terry Oswalt (b. 1952) is an American astronomer working in the fields of stellar and planetary astronomy. He has led or participated in observing campaigns for numerous occultations involving the Moon, planets and minor solar system bodies, including one of the first determinations of the size, shape, and density of 1 Ceres.

(31389) Alexkaplan = 1998 YN_2

Discovered 1998 Dec. 17 by ODAS at Caussols.

Alexandre Kaplan (1901–1973) was an electrical engineer, with a passion for astronautics and astronomy. A member of the groupe de Lorraine of the Societe Astronomique de France, he built an observatory for the use of astronomy clubs around the city of Nancy.

(31450) Stevepreston = 1999 CU_9

Discovered 1999 Feb. 14 by J. Broughton at Reedy Creek.

US occultation observer and skilled mathematician, Steve Preston (b. 1956), introduced asteroidal predictions of unprecedented accuracy in 2001, significantly increasing observation rates worldwide. He was elected president of the International Occultation Timing Association in 2014.

(31836) Poshedly = 2000 BU_{34}

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

Kenneth T. Poshedly (b. 1949) is the tireless Publisher and Editor-in-Chief of the *Journal of the Association of Lunar and Planetary Observers*. In 2010 he won the Peggy Haas Service Award for his work with that organization.

(32279) Marshall = 2000 PX_{16}

Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Nathan Charles Marshall (b. 1998) is a finalist in the 2016 Intel Science Talent Search, a science competition for high school seniors, for his earth and planetary science project. He attends the Boise High School, Boise, Idaho.

(33219) De Los Santos = 1998 FN_{107}

Discovered 1998 Mar. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Tomas De Los Santos mentored a finalist in the 2016 Broadcom MASTERS, a math and science competition for middle school students. He teaches at the Santa Gertrudis School, Kingsville, Texas.

(33270) Katiecrysup = 1998 HJ_{99}

Discovered 1998 Apr. 21 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Kathrine Crysup-Sikes mentored a finalist in the 2016 Broadcom MASTERS, a math and science competition for middle school students. She teaches at the Seashore Middle Academy, Corpus Christi, Texas.

(34153) Deeannguo = 2000 QZ_{19}

Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

DeeAnn Guo (b. 1999) was awarded second place in the 2017 Intel International Science and Engineering Fair for her behavioral and social sciences project. She attends the John Jay High School, Cross River, New York, U.S.A.

(34188) Clarawagner = 2000 QB_{48}

Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Clara Elizabeth Wagner (b. 1998) was awarded best of category, first place, and the Scientific and Cultural Visit to India Awards in the 2017 Intel International Science and Engineering Fair for her biomedical engineering project. She attends the Saginaw Arts and Sciences Academy, Saginaw, Michigan.

(34280) Victoradler = 2000 QP_{140}

Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Victor Adler mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Harker School, San Jose, California.

(34281) Albritton = 2000 QR_{141}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Daniel Albritton mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Fairview High School, Boulder, Colorado.

(34282) Applegate = 2000 QX_{142}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

John Applegate mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the St. Andrew's Episcopal School, Ridgeland, Mississippi.

(34283) Bagley = 2000 QM_{146}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Michelle Bagley mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Centennial High School, Ellicott City, Maryland.

(34284) Seancampbell = 2000 QR_{146}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Sean Campbell mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Phillips Exeter Academy, Exeter, New Hampshire.

(34285) Dorothydady = 2000 QA_{147}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Dorothy Dady mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Cherry Creek High School, Greenwood Village, Colorado.

(34288) Bevindaglen = 2000 QU_{149}
Discovered 2000 Aug. 25 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Bevin Daglen mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Oregon Episcopal School, Portland, Oregon.

(34289) Johndell = 2000 QC_{150}
Discovered 2000 Aug. 25 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

John Dell mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Thomas Jefferson High School for Science and Technology, Alexandria, Virginia.

(34293) Khiemdoba = 2000 QJ_{152}
Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Khiem Doba mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Phillips Academy, Andover, Massachusetts.

(34294) Taylordufford = 2000 QM_{152}
Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Taylor Dufford mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Cherry Creek High School, Greenwood Village, Colorado.

(34297) Willfrazer = 2000 QH_{156}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Will Frazer mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Buchholz High School, Gainesville, Florida.

(34300) Brendafrost = 2000 QV_{166}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Brenda Frost mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Garnet Valley High School, Glen Mills, Pennsylvania.

(34302) Riagalanos = 2000 QU_{172}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Ria Galanos mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Thomas Jefferson High School for Science and Technology, Alexandria, Virginia.

(34304) Alainagarza = 2000 QB_{178}
Discovered 2000 Aug. 31 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Alaina Garza mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Clear Brook High School, Friendswood, Texas.

(34307) Arielhaas = 2000 QT_{183}
Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Ariel Haas mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Canyon Crest Academy, San Diego, California.

(34308) Roberthall = 2000 QC_{185}
Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Robert L. Hall mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Newman School, Boston, Massachusetts.

(34310) Markhannum = 2000 QA_{187}
Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Mark G. Hannum mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Thomas Jefferson High School for Science and Technology, Alexandria, Virginia.

(34312) Deahaupt = 2000 QO$_{188}$

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Dea Michael Haupt mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Lexington High School, Lexington, Massachusetts.

(34313) Lisahevner = 2000 QQ$_{188}$

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Lisa R. Hevner mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Lincoln Park Academy, Fort Pierce, Florida.

(34314) Jasonlee = 2000 QN$_{189}$

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Jason Lee mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Lynbrook High School, San Jose, California.

(34326) Zhaurova = 2000 QF$_{202}$

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Irene Zhaurova mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Cambridge Rindge and Latin School, Cambridge, Massachusetts.

(35053) Rojyurij = 1982 UA$_{11}$

Discovered 1982 Oct. 25 by L. V. Zhuravleva at Nauchnyj.

Yurij Arsentyevich Roj (b. 1948) is an expert on laser ranging, space and ground-based communication systems, and a key participant in the Russian lunar program. He is a member of the K. E. Tsiolkovsky Russian Academy of Cosmonautics.

(43282) Dougbock = 2000 EB$_{140}$

Discovered 2000 Mar. 14 by the Catalina Sky Survey.

Doug Bock (b. 1956) is well known in amateur astronomy in the midwest U.S. having received numerous awards and served as an officer in several clubs including Vice-Chairman of the Great Lakes Region of the Astronomical League from 1980–82. He is an avid observer and imager from his Boon Hill Observatory in Michigan.

(44885) Vodička = 1999 VB

Discovered 1999 Nov. 1 by J. Tichá and M. Tichý at Kleť.

Karel Vodička (1880–1957) was a mathematician and physicist with a deep interest in astronomy, director of Jirsík High School (1925–1935). He founded the South Bohemian Astronomical Society (JAS) in 1928 and served as the first director of České Budějovice Observatory (1928–1942) built by JAS.

(50718) Timrobertson = 2000 ED$_{139}$

Discovered 2000 Mar. 11 by the Catalina Sky Survey.

Tim Robertson (b. 1956) is a Quality Engineer at NASA's Goddard Space Flight Center, with the GOES and JPSS weather satellite programs. On staff with the Association of Lunar and Planetary Observers (ALPO), he is Coordinator for the ALPO Training Program as well as Producer of the "Observer's Notebook" podcasts.

(52963) Vercingetorix = 1998 TB$_{16}$

Discovered 1998 Oct. 15 by ODAS at Caussols.

Vercingetorix (b. 82–72 BCE, d. 46 BCE) was a King of the Arverni and military leader of the Celtic people against the Roman invasion. He beat Julius Caesar's forces at the Battle of Gergovia (52 BCE), but surrendered during the battle of Alesia, presumably because of superstitions related to the lunar eclipse of 26 Sep. 52 BCE.

(63609) Francoisecolas = 2001 QY$_{72}$

Discovered 2001 Aug. 20 at Pic du Midi.

Francoise Colas (b. 1958) is a French amateur astronomer who has taken part in numerous trans-Neptunian stellar occultation observations all over the world. She is also part of the observation team at the Pic du Midi 1-m telescope.

(75846) Jandorf = 2000 BN$_{34}$

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

Harold "Hal" Jandorf (b. 1948) is a well-liked professor of astronomy at Los Angeles Valley College in Valley Glen, California. He is also adjunct faculty at Moorpark College in California, has authored several editions of Experiences in Astronomy and is a popular outreach speaker with the Ventura County Astronomical Society.

(78221) Leonmow = 2002 OP$_{7}$

Discovered 2002 July 18 at Needville.

Leon Mow (1919–2002) was an Australian philanthropist with a great interest in astronomy. In 1990 he donated a dark-sky site to the Astronomical Society of Victoria (ASV), so that others could share in his passion. The ASV holds a number of public star parties there each year.

(79286) Hexiantu = 1995 SQ$_{53}$

Discovered 1995 Sept. 28 by Beijing Schmidt CCD Asteroid Program at Xinglong.

He Xiantu (b. 1937) is a leading theoretical physicist and an Academician of the Chinese Academy of Sciences. He has made significant contributions to the studies of plasma physics, nonlinear science and statistical physics. He has won several State Natural Science Awards and National Science and Technology Progress Awards.

(79694) Nanrendong = 1998 SZ$_{62}$

Discovered 1998 Sept. 25 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Nan Rendong (1945–2017) was a leading astronomer, Vice-President and President of IAU Division X (2003–2009). Hailed as 'Father of the Five-hundred-meter Aperture Spherical radio Telescope (FAST)', he led the efforts from initiation, implementation, to completion of FAST, and served as Chief Scientist and Chief Engineer.

(101813) Elizabethmarston = 1999 JX$_{7}$

Discovered 1999 May 14 by R. A. Tucker at Goodricke-Pigott.

Elizabeth Holloway Marston (1893–1993) was an American attorney and psychologist. She developed, with her husband William Moulton Marston, the systolic blood-pressure test. Along with her husband's live-in mistress, Olive Byrne, she was the inspiration for the comic book creation Wonder Woman.

(102234) Olivebyrne = 1999 TK$_{20}$

Discovered 1999 Oct. 5 by R. A. Tucker at Goodricke-Pigott.

Olive Byrne Richard (1904–1990) was an American housewife and the research assistant and live-in mistress of William Moulton Marston (who was married to Elizabeth Holloway Marston). She, along with his wife, was the inspiration for his comic book creation Wonder Woman.

(109435) Giraud = 2001 QB_{197}

Discovered 2001 Aug. 22 by R. A. Tucker at Goodricke-Pigott.

Jean Henri Gaston Giraud (1938–2012) was a French artist, cartoonist, and writer. Using an abstract and often surreal style, he produced a wide range of science fiction and fantasy works. He also contributed storyboards and concept designs to films such as Alien, The Fifth Element, Heavy Metal, the Abyss and Tron.

(110299) Iceland = 2001 SW_{266}

Discovered 2001 Sept. 25 by W. K. Y. Yeung at Desert Eagle.

Iceland is a volcanically and geologically active island in the North Atlantic Ocean. With an area of 103,000 square kilometer and population of about 330,000, it is the most sparsely populated country in Europe.

(110416) Cardille = 2001 TU_{18}

Discovered 2001 Oct. 11 by R. A. Tucker at Goodricke-Pigott.

William Robert "Chilly Billy" Cardille (1928–2016) was a television broadcast personality in Pittsburgh. Starting in 1957, he hosted many programs on WIIC-TV (later WPXI), including *Studio Wrestling* and a 20-year run on *Chiller Theatre*. Cardille also appeared in several movies, including *Night of the Living Dead*.

(113405) Itomori = 2002 SS_{24}

Discovered 2002 Sept. 28 by R. A. Tucker at Goodricke-Pigott.

Itomori is a fictional Japanese town depicted in the anime movie "Your Name" that was destroyed by the impact of a comet fragment.

(120367) Grabow = 2005 NL_{67}

Discovered 2005 July 2 by the Catalina Sky Survey.

Walter Grabow (1913–1987) was the owner of the Polaris Telescope Shop in Dearborn, Michigan in the 1960s. His patience and guidance helped many amateur astronomers in building or buying their telescopes.

(120730) Zhouyouyuan = 1997 SN_{33}

Discovered 1997 Sept. 26 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Zhou Youyuan (b. 1938) is a leading astrophysicist and an Academician of the Chinese Academy of Sciences. He has made significant contributions to the study of quasars, active galactic nuclei, cosmology, large scale structures of the universe, and high-energy astrophysics.

(136803) Calliemorgan = 1997 EC_3

Discovered 1997 Mar. 6 by J. Bruton at Chinle.

Callie Morgan Caruso (b. 2009) is the discoverer's granddaughter.

(136825) Slawitschek = 1997 SX_3

Discovered 1997 Sept. 26 by J. Tichá and M. Tichý at Kleť.

Rudolf Slawitschek (1880–1945) was a Prague-based German writer and jurist. He wrote the historical novel *Hans Adam Löwenmacht*, the childrens book *Anastasius Katzenschlucker* and *Der blaue Herrgott* (1927), which takes place in the landscape of Kleť Mountain and nearby Český Krumlov.

(145488) Kaczendre = 2005 VP_3

Discovered 2005 Nov. 4 by K. Sárneczky at Piszkéstető.

Endre Kacz Komáromi (1880–1969) was a Hungarian painter and amateur astronomer. From the 1910s, he had permanent exhibitions in Budapest and several of his paintings can be found in the Hungarian National Gallery. His colorful drawings of planets are unique, and he was an independent discoverer of N Aql 1918.

(151351) Dalleore = 2002 CS_{282}

Discovered 2002 Feb. 8 by M. W. Buie at Kitt Peak.

Cristina M. Dalle Ore (b. 1958) is a senior scientist at the NASA SETI Institute, who served as a composition science team member for the New Horizons Mission to Pluto.

(152067) Deboy = 2004 PK_{111}

Discovered 2004 Aug. 15 by M. W. Buie at Cerro Tololo.

Christopher C. Deboy(b. 1969) is a radio-frequency engineer at the Johns Hopkins University Applied Physics Laboratory, who served as the Radio Communications System Lead for the New Horizons Mission to Pluto.

(153301) Alissamearle = 2001 FR_{183}

Discovered 2001 Mar. 25 by M. W. Buie at Kitt Peak.

Alissa M. Earle (b. 1991) completed her PhD research on Pluto's long-term seasonal cycles at the Massachusetts Institute of Technology while serving as a composition analysis team member for the New Horizons Mission to Pluto.

(154554) Heatherelliott = 2003 GC_{52}

Discovered 2003 Apr. 1 by M. W. Buie at Kitt Peak.

Heather A. Elliott (b. 1971) is a principal scientist at the Southwest Research Institute who served as a co-investigator for plasma and solar wind science for the New Horizons Mission to Pluto.

(159102) Sarahflanigan = 2004 TU_{354}

Discovered 2004 Oct. 11 by M. W. Buie at Kitt Peak.

Sarah H. Flanigan (b. 1985) is a supervising engineer at the Johns Hopkins University Applied Physics Laboratory, who served as the Deputy Guidance and Control Lead for the New Horizons Mission to Pluto.

(159902) Gladstone = 2004 TY_{354}

Discovered 2004 Oct. 11 by M. W. Buie at Kitt Peak.

George Randall Gladstone (b. 1956) is a Program Director for Research and Development at the Southwest Research Institute, and served as a Co-Investigator and Atmospheres Team Lead for the New Horizons Mission to Pluto.

(160215) Haines-Stiles = 2002 CB_{274}

Discovered 2002 Feb. 8 by M. W. Buie at Kitt Peak.

Geoffrey Haines-Stiles (b. 1948) served as the Public Outreach Cinematographer for the New Horizons Mission to Pluto.

(161585) Danielhals = 2005 GN_{184}

Discovered 2005 Apr. 10 by M. W. Buie at Kitt Peak.

DanielW. Hals (b. 1983) is a software engineer at the Johns Hopkins University Applied Physics Laboratory, who served as the Ground Systems Software Lead for the New Horizons Mission to Pluto.

(161699) Lisahardaway = 2006 HR_{140}

Discovered 2006 Apr. 26 by M. W. Buie at Cerro Tololo.

Lisa R. Hardaway (1966–2017) was a program manager for Ball Aerospace, who managed the Ralph spectral imaging instrument for the New Horizons Mission to Pluto.

(163255) Adrianhill = 2002 GT_{27}

Discovered 2002 Apr. 6 by M. W. Buie at Cerro Tololo.

Adrian Hill (b. 1964) is a software engineer at the Johns Hopkins University Applied Physics Laboratory, and served as a Fault Protection and Autonomy Lead for the New Horizons Mission to Pluto.

(164701) Horanyi = 1998 AX_9

Discovered 1998 Jan. 7 by M. W. Buie at the Anderson Mesa Station of the Lowell Observatory.

Mihaly Horanyi (b. 1955) is Professor of Physics at the University of Colorado, who served as a science team Co-Investigator and as the Principal Investigator of the Student Dust Counter instrument for the New Horizons Mission to Pluto.

(167971) Carlyhowett = 2005 EF_{303}

Discovered 2005 Mar. 11 by M. W. Buie at Kitt Peak.

Carly J. Howett (b. 1979) is a research scientist at Southwest Research Institute, who served as an encounter Composition Team co-investigator for the New Horizons Mission to Pluto.

(168531) Joshuakammer = 1999 VF_{12}

Discovered 1999 Nov. 10 by M. W. Buie at Kitt Peak.

Joshua A. Kammer (b. 1986) is a research scientist at the Southwest Research Institute, who served as a postdoctoral science team member for the atmospheric investigation for the New Horizons Mission to Pluto.

(168635) Davidkaufmann = 2000 CU_{109}

Discovered 2000 Feb. 5 by M. W. Buie at Kitt Peak.

David E. Kaufmann (b. 1964), a principal analyst at the Southwest Research Institute, served as a PEPSSI Instrument Sequencer for the New Horizons Mission to Pluto.

(168767) Kochte = 2000 QZ_{244}

Discovered 2000 Aug. 25 by M. W. Buie at Cerro Tololo.

Mark C. Kochte (b. 1962) of the Johns Hopkins University Applied Physics Laboratory, served as a mission operations analyst in support of the SWAP instrument command sequences for the New Horizons Mission to Pluto.

(169184) Jameslee = 2001 QQ_{306}

Discovered 2001 Aug. 19 by M. W. Buie at Cerro Tololo.

James E. Lee (b. 1958), NASA Marshall Spaceflight Center, served as the NASA Program Manager for the New Horizons Mission to Pluto.

(170073) Ivanlinscott = 2002 VU_{129}

Discovered 2002 Nov. 9 by M. W. Buie at Kitt Peak.

Ivan R. Linscott (b. 1942) is an emeritus research scientist for Stanford University, who served as a science team co-investigator and as Principal Investigator of the REX Radio Science Instrument for the New Horizons Mission to Pluto.

(170487) Mallder = 2003 UE_{285}

Discovered 2003 Oct. 22 by M. W. Buie at Kitt Peak.

Valerie A. Mallder (b. 1963) is a systems engineer at the Johns Hopkins University Applied Physics Laboratory, who served as a Deputy Mission Systems Engineer for the New Horizons Mission to Pluto.

(172951) Mehoke = 2005 JN_{174}

Discovered 2005 May 11 by M. W. Buie at Cerro Tololo.

Douglas S. Mehoke (b. 1956) is a thermal engineer at the Johns Hopkins University Applied Physics Laboratory, and served as a Thermal Systems Engineer for the New Horizons Mission to Pluto.

(172985) Ericmelin = 2006 HW_{147}

Discovered 2006 Apr. 27 by M. W. Buie at Cerro Tololo.

Eric D. Melin (b. 1977) is a software engineer at the Johns Hopkins University Applied Physics Laboratory, and served as the Ground Systems Lead for the New Horizons Mission to Pluto.

(173649) Jeffreymoore = 2001 FS_{184}

Discovered 2001 Mar. 26 by M. W. Buie at Kitt Peak.

Jeffrey M. Moore (b. 1953) is a Research Scientist at the NASA Ames Research Center, who served as a Co-Investigator and Geology Science Team Lead for the New Horizons Mission to Pluto.

(175920) Francisnimmo = 2000 CO_{118}

Discovered 2000 Feb. 5 by M. W. Buie at Kitt Peak.

Francis Nimmo (b. 1971) is a Professor at the University of California at Santa Cruz, who served as a Science Team Collaborator for the interior geophysics investigation for the New Horizons Mission to Pluto.

(177148) Pätzold = 2003 QJ_{85}

Discovered 2003 Aug. 24 by M. W. Buie at Cerro Tololo.

Martin Pätzold (b. 1960), Max Planck Institute, served as a Science Team Collaborator for radio science for the New Horizons Mission to Pluto.

(178603) Pinkine = 2000 CV_{107}

Discovered 2000 Feb. 5 by M. W. Buie at Kitt Peak.

Nickalaus Pinkine (b. 1967) is a manager at the Johns Hopkins University Applied Physics Laboratory, who served as a Deputy Mission Operations Manager for the New Horizons Mission to Pluto.

(178987) Jillianredfern = 2001 QD_{306}

Discovered 2001 Aug. 19 by M. W. Buie at Cerro Tololo.

Jillian A Redfern (b. 1979) is a Manager for Research and Development at the Southwest Research Institute, and served as an Alice UV Spectrometer Instrument Sequencer for the New Horizons Mission to Pluto.

(180143) Gaberogers = 2003 FE_{124}

Discovered 2003 Mar. 30 by M. W. Buie at Kitt Peak.

Gabe D. Rogers (b. 1973) is an assistant group supervisor at the Johns Hopkins University Applied Physics Laboratory, who served as the Spacecraft Systems Engineer for the New Horizons Mission to Pluto.

(180855) Debrarose = 2005 GO_{205}

Discovered 2005 Apr. 11 by M. W. Buie at Kitt Peak.

Debra M. Rose (b. 1959) is a Senior Program Manager for Research and Development at the Southwest Research Institute, and served as a Payload Instrument Sequencer for the New Horizons Mission to Pluto.

(181562) Paulrosendall = 2006 UT_{325}

Discovered 2006 Oct. 20 by M. W. Buie at Kitt Peak.

Paul E. Rosendall (b. 1984) is a senior software engineer at the Johns Hopkins University Applied Physics Laboratory, who served as the Lead for Software Fault Protection for the New Horizons Mission to Pluto.

(182044) Ryschkewitsch = 2000 CV_{109}

Discovered 2000 Feb. 5 by M. W. Buie at Kitt Peak.

Michael Ryschkewitsch (b. 1951) of the Johns Hopkins University Applied Physics Laboratory (APL), served as the NASA Headquarters Chief Engineer and then as the Head of the APL Space Department for the New Horizons Mission to Pluto.

(186411) Margaretsimon = 2002 PF$_{152}$

Discovered 2002 Aug. 10 by M. W. Buie at Cerro Tololo.

Named in honor of Margaret Simon (b. 1967), a strategic communications manager at the Johns Hopkins University Applied Physics Laboratory, who served as the External Events Coordinator for the New Horizons Mission to Pluto.

(187636) Chungyuan = 2007 CF$_{13}$

Discovered 2007 Feb. 6 by H.-C. Lin and Q.-z. Ye at Lulin.

The Chung Yuan Christian College of Science and Engineering (CYCC) was established in October 1955. Upgraded to the status of a full university, CYCC was renamed Chung Yuan Christian University (CYCU) on Aug. 1, 1980. After five decades, CYCU has more than 120 000 alumni.

(187981) Soluri = 2001 QL$_{307}$

Discovered 2001 Aug. 19 by M. W. Buie at Cerro Tololo.

Michael R. Soluri (b. 1946) is a documentary photographer who served as the official project photographer for the New Horizons Mission to Pluto.

(188256) Stothoff = 2002 XT$_{93}$

Discovered 2002 Dec. 7 by M. W. Buie at Kitt Peak.

Maria M. Stothoff (b. 1966) served as the Public Affairs Deputy Chief for the Southwest Research Institute for the New Horizons Mission to Pluto.

(188502) Darrellstrobel = 2004 PM$_{115}$

Discovered 2004 Aug. 12 by M. W. Buie at Cerro Tololo.

Darrell F. Strobel (b. 1942) is a research scientist at Johns Hopkins University, who served as a Co-Investigator for atmospheric science for the New Horizons Mission to Pluto.

(189018) Guokeda = 1998 TC$_{19}$

Discovered 1998 Oct. 14 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Guokeda (University of Chinese Academy of Sciences, UCAS), is the first and largest graduate education institution in the P.R. China, having granted the country's first Ph.D.s in science and in engineering. UCAS started enrolling undergraduate students in 2014.

(190710) Marktapley = 2001 FA$_{185}$

Discovered 2001 Mar. 26 by M. W. Buie at Kitt Peak.

Mark B. Tapley (b. 1962) is an Institute Engineer at Southwest Research Institute, who served as the Payload Systems Engineer for the New Horizons Mission to Pluto.

(192001) Raynatedford = 2005 XG$_{112}$

Discovered 2005 Dec. 2 by M. W. Buie at Kitt Peak.

Rayna M. Tedford (b. 1960) of the Southwest Research Institute, served as the Pluto Encounter Deputy Logistics Lead for the New Horizons Mission to Pluto.

(192450) Xinjiangdaxue = 1997 WY$_{21}$

Discovered 1997 Nov. 23 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Xinjiangdaxue (Xinjiang University) was founded in 1924 and is one of the national key comprehensive universities. It is listed as a comprehensive university for further development in the Great West Project of China.

(195191) Constantinetsang = 2002 CC$_{281}$

Discovered 2002 Feb. 8 by M. W. Buie at Kitt Peak.

Constantine C. C. Tsang (b. 1981) is a Senior Research Scientist at the Southwest Research Institute, and served as a Science Team Collaborator for imaging data analysis for the New Horizons Mission to Pluto.

(199194) Calcatreppola = 2006 AO

Discovered 2006 Jan. 3 by S. Sposetti at Gnosca.

Calcatreppola marittima (Eryngium Maritimum) is a plant that can be found near seashores in Sardinia, Italy. The island's inhabitants name it "Corra de screu".

(199631) Giuseppesprizzi = 2006 GX

Discovered 2006 Apr. 2 by V. S. Casulli at Vallemare Borbona.

Giuseppe Sprizzi (b. 1973) is the discoverer's son in law.

(200033) Newtaipei = 2007 PX$_{46}$

Discovered 2007 Aug. 6 by C.-S. Lin and Q.-z. Ye at Lulin.

Located in northern Taiwan, New Taipei city includes a substantial stretch of the island's northern coastline and surrounds the Taipei Basin. New Taipei city is the most populous city in Taiwan.

(212705) Friûl = 2007 RF$_{15}$

Discovered 2007 Sept. 12 at Remanzacco.

Friuli (Friûl in Friulian) is an area of northeast Italy with its own particular cultural and historical identity. It comprises the major part of the autonomous region of Friuli-Venezia Giulia, and is the place where the Remanzacco observatory is located. The name Friuli originates from the ancient Roman town of Forum Iulii.

(231040) Kakaras = 2005 EX$_{282}$

Discovered 2005 Mar. 10 by K. Černis and J. Zdanavicius at Moletai.

Gunaras Kakaras (b. 1939) is a Lithuanian astronomer and one of the most skilled Lithuanian popularizers of astronomy. He is an expert on stellar photometry of binary stars and he wrote several popular books and many popular papers. He established the Lithuanian Museum of Ethnocosmology in 1990.

(231969) Sebvauclair = 2001 QD$_{94}$

Discovered 2001 Aug. 24 at Pic du Midi.

Sebastien Vauclair (b. 1976) is a French astronomer working on high-energy astronomy. He is also a leader in dark-sky protection, especially for the dark-sky reserve known as the Reserve Internationale de Ciel Etoile du Pic du Midi, located in the Pyrenees.

(237164) Keelung = 2008 UP$_{128}$

Discovered 2008 Oct. 22 by X. Y. Hsiao and Q.-z. Ye at Lulin.

Keelung City is located at the northernmost tip of Taiwan. This port city is bordered by mountains on three sides and faces out towards the sea. Keelung enjoys an excellent natural harbor with deep water.

(261110) Neoma = 2005 SE$_{285}$

Discovered 2005 Sept. 25 by A. C. Becker at Apache Point.

Neoma Tennyson Skye Becker (b. 2015) is the daughter of the discoverer.

(264474) Rogerclark = 2001 FH$_{212}$

Discovered 2001 Mar. 21 by SKADS at Kitt Peak.

Roger Clark (b. 1953) made fundamental discoveries about solid surfaces on bodies from Earth to Saturn. He applied imaging spectroscopy to map minerals on these bodies on numerous NASA missions and applied these methods to assess the 9/11 disaster and determine oil leakage from the Gulf spill.

(268057) Michaelkaschke = 2004 RQ_{24}

Discovered 2004 Sept. 8 by KLENOT at Kleť.

Under the leadership of Michael Kaschke (b. 1957), ZEISS has evolved into a full-fledged global company. Outside the company, he sponsored general scientific, social projects and university research. Kaschke is also the driving force to create the German Optical Museum in Jena.

(278956) Shei-Pa = 2008 UZ_{83}

Discovered 2008 Oct. 22 by H.-Y. Hsiao and Q.-z. Ye at Lulin.

Shei-Pa National Park is located in the central part of Taiwan around the peaks of Hsuehshan and Dabajian Mountain, with an area of 76 850 hectares. There are 51 peaks over 3 000 meters high.

(300226) Francocanepari = 2006 XK_{51}

Discovered 2006 Dec. 13 by L. Tesi and G. Fagioli at San Marcello.

Franco Canepari (b. 1953) is the cofounder of Valdinievole Association of Astronomy A. Pieri. His major activity is devoted to the popularization of astronomy at the Planetarium of Monsummano Terme. He is also interested in observations of the Sun and planets.

(400193) Castión = 2006 XW_{60}

Discovered 2006 Dec. 14 by A. Boattini and M. Mazzucato at San Marcello.

Castión is the dialectal name of the city Castiglione dei Pepoli, medieval fiefdom of the Pepoli noble family, in the Bolognese Apennines, Italy. The second discoverer has lived there for many years.

(418532) Saruman = 2008 SZ_{84}

Discovered 2008 Sept. 27 by E. Schwab and U. Zimmer at Taunus.

Saruman is a fictional character in J. R. R. Tolkien's fantasy novel "The Lord of the Rings". In the film version, the role of Saruman was played by actor Christopher Lee.

(471143) Dziewanna = 2010 EK_{139}

Discovered 2010 Mar. 13 by A. Udalski, S. S. Sheppard, M. Kubiak and C. A. Trujillo at Las Campanas.

Dziewanna is a Slavic Goddess of the wild nature, forests and the hunt. Gold-haired, young and beautiful, she brings the spring and revitalizes the Earth. Wild yellow mullein flowers (Polish: dziewanna) are her symbol. Dried, they served as torches during her celebrations.

(471926) Jörmungandr = 2013 KN_6

Discovered 2013 May 28 by J. Jahn at Haute Provence.

Jörmungandr was a sea serpent in Norse mythology. The serpent was so large that it surrounded the earth and grasped its own tail; when it moved in the ocean, it caused huge storm surges.

(516560) Annapolisroyal = 2006 XL_{67}

Discovered 2006 Dec. 12 by D. D. Balam at Mauna Kea.

The Town of Annapolis Royal, Nova Scotia, is recognized as the cradle of the Canadian nation for its prominent role in the country's early origins and remains influential as a leader in heritage stewardship and preservation.

NUMBERING OF NATURAL SATELLITES

The following natural satellites are receiving permanent Roman numeral designations:

Jupiter LXI	= S/2003 J 19
Jupiter LXII	= S/2016 J 2
Jupiter LXIII	= S/2017 J 2
Jupiter LXIV	= S/2017 J 3
Jupiter LXV	= S/2017 J 4
Jupiter LXVI	= S/2017 J 5
Jupiter LXVII	= S/2017 J 6
Jupiter LXVIII	= S/2017 J 7
Jupiter LXIX	= S/2017 J 8
Jupiter LXX	= S/2017 J 9
Jupiter LXXI	= S/2018 J 1
Jupiter LXXII	= S/2011 J 1
Neptune XIV	= S/2004 N 1