Date of current MPCs

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EDITORIAL NOTICE

The Minor Planet Center is taking the unusual step of changing the discovery date for (69) Hesperia from 1861 Apr. 26 to 1861 Apr. 29, following examination of the literature of the time and after consultation with L. Schmadel, editor of the *Dictionary of Minor Planet Names*. This change is not being made lightly. The discovery announcement for (69) Hesperia appeared in *Astron. Nach.* **55**, 207), authored by G. Schiaperellii and titled "Entdeckung eines neuen Planeten (68)" ["Discovery of a new planet (68)"]. (The original (67) and (68) became (68) and (69), respectively, shortly thereafter following the delayed reporting of the discovery of the object now known as (67) Asia.) The Hesperia announcement states "Am 26^{sten} April, während ich diejenige Gegend des Himmels untersuchte, wo nach Krüger's Ephemeride der Planet [(63)] Ausonia sich finden solle, wurde meine Aufmerksamkeit auf einen kleinen Stern 11^{ter} Grösse gelenkt, welcher nur etwa $10'$ von der Ausonia entfernt war, und welchen ich Anfangs sogar mit diesem Planeten verwechselt hatte. Am 28^{sten} war dieser Stern verschwunden." ["On April 26^{th}, while I examined the area of the sky where the planet [(63)] Ausonia should be found according to Krüger's ephemeris, my attention was drawn to a small star of 11^{th} magnitude, which was only about $10'$ away from Ausonia, and which at first I had even confused with the planet. On the 28^{th} this star was gone."] On the assumption that the "star" was actually another minor planet, Schiaparelli searched the region the following night and located a moving object. An editorial note at the end of the announcement, signed "P." (presumably the editor C. A. F. Peters), states the AN's opinion of the discovery date quite clearly: "Da die Entdeckung dieses Planeten am 29^{sten} April constatirt ist," ["Since the discovery of this planet is ascertained to be April 29^{th},"].

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 94395. 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	$\rho\cos\phi'$	$\rho\sin\phi'$	
K55	7.76500	0.645586	+0.761172	Wallhausen
K66	12.62861	0.750491	+0.658684	Osservatorio Astronomico di Anzio
Q60	149.06900	0.855626	−0.516198	ISON-SSO Observatory, Siding Spring
U57	237.84128	0.795776	+0.603616	Black Mountain Observatory, Los Altos
W55	282.58389	0.773703	+0.631447	Natelli Observatory, Frederick
W89	289.19533	0.865589	−0.499764	Cerro Tololo-LCOGT Aqawan A #1
Z21	343.48830	0.881468	+0.471452	Tenerife-LCOGT Aqawan A #1
Z22	343.4894	0.88148	+0.47143	MASTER-IAC Observatory, Tenerife

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N	Obs.
2003 DC_{16}	2003 02	28.93850	10 48 59.64	+11 00 10.1	*MPS* 74402		246
2003 DC_{16}	2003 02	28.93961	10 48 59.57	+11 00 10.1	*MPS* 74402		246
2003 DC_{16}	2003 02	28.94059	10 48 59.56	+11 00 10.5	*MPS* 74402		246
2003 DC_{16}	2003 02	28.94186	10 48 59.55	+11 00 10.2	*MPS* 74402		246
2005 UZ_{481}	2005 10	22.31476	01 47 26.41	+15 31 42.6	*MPS* 153841		703
2005 UZ_{481}	2005 10	22.32425	01 47 25.90	+15 31 36.3	*MPS* 153841		703
2005 UZ_{481}	2005 10	22.33370	01 47 25.51	+15 31 32.5	*MPS* 153841		703
2005 UZ_{481}	2005 10	22.34318	01 47 25.08	+15 31 29.1	*MPS* 153841		703
2010 FK_{122}	*2010 03	20.44089	06 26 01.07	+24 53 10.2	*MPC* 90855		C51
Geocentric position (km)		+ 914.3115	+ 6228.6590	+ 2842.9285			
2010 FK_{122}	2010 03	20.97024	06 26 15.82	+24 53 06.8	*MPC* 90855		C51
Geocentric position (km)		+ 860.9812	+ 6219.9934	+ 2878.0535			
2010 HW_{112}	2010 04	21.13557	09 14 09.38	+45 06 53.3	*MPS* 348120		C51
Geocentric position (km)		− 1385.8853	+ 4357.2798	+ 5167.1440			
2010 NX_{55}	2010 10	09.01493	00 44 37.28	+05 00 03.4	*MPS* 457465		B74
2010 NX_{55}	2010 10	09.02110	00 44 36.95	+04 59 59.3	*MPS* 457465		B74
2010 NX_{55}	2010 10	09.02645	00 44 36.66	+04 59 56.1	*MPS* 457465		B74
2015 OW	2015 07	22.13079	21 23 52.64	−12 55 43.3	*MPS* 616144		954
2015 OW	2015 07	22.13669	21 23 52.37	−12 55 46.0	*MPS* 616144		954
2015 OW	2015 07	22.14259	21 23 52.13	−12 55 48.9	*MPS* 616144		954
2015 ON_{35}	2015 07	23.48649	22 45 32.13	−04 56 13.3	*MPS* 617728		F51
2015 ON_{35}	2015 07	23.49837	22 45 32.29	−04 56 09.8	*MPS* 617728		F51
2015 PX	2015 08	06.92102	21 47 35.48	+21 06 12.6	*MPS* 619912		A13
2015 PX	2015 08	06.93483	21 47 34.25	+21 06 21.3	*MPS* 619912		A13
2015 PX	2015 08	06.94156	21 47 33.78	+21 06 24.7	*MPS* 619912		A13
(242191)	2015 07	10.13366	18 03 25.06	+51 36 31.7	*MPS* 615774		W19
(242191)	2015 07	10.13699	18 03 20.88	+51 36 45.6	*MPS* 615774		W19
(242191)	2015 07	10.14138	18 03 15.40	+51 37 04.0	*MPS* 615774		W19
(242191)	2015 07	10.14480	18 03 10.99	+51 37 18.5	*MPS* 615774		W19
(242191)	2015 07	10.14829	18 03 06.67	+51 37 32.8	*MPS* 615774		W19

IDENTIFICATION CHANGES

Continuation to *MPC* 94395.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N	Obs.
2002 TH_{388}	*2002 10	11.353980	00 52 02.971	+00 34 42.14	2002 TC_{335}	21.19V		645
2002 TH_{388}	2002 10	11.357452	00 52 02.783	+00 34 41.64	2002 TC_{335}	22.11		645

2003 FC_{134}	*2003 03 24.11881	10 32 50.59	+12 36 12.0	1995 SM_{76}	20.3	V	691
2003 FC_{134}	2003 03 24.14511	10 32 49.67	+12 36 17.1	1995 SM_{76}	20.6	V	691
2003 FC_{134}	2003 03 24.17179	10 32 48.75	+12 36 21.7	1995 SM_{76}	20.5	V	691
2003 JR_{18}	*2003 05 03.27915	14 15 20.77	−15 28 03.0	2003 GY_{56}	20.2	V	691
2003 JR_{18}	2003 05 03.30728	14 15 18.84	−15 28 00.6	2003 GY_{56}	20.8	V	691
2003 JR_{18}	2003 05 03.33456	14 15 17.02	−15 27 57.8	2003 GY_{56}	20.7	V	691
2003 JR_{18}	2003 05 22.19992	13 58 06.19	−15 05 28.7	2003 GY_{56}	21.3	V	691
2003 JR_{18}	2003 05 22.22839	13 58 04.95	−15 05 27.6	2003 GY_{56}	21.0	V	691
2003 JR_{18}	2003 05 22.25634	13 58 03.73	−15 05 26.7	2003 GY_{56}	21.3	V	691
2005 CT_{81}	*2005 02 04.28615	07 50 38.35	+30 12 06.3	2005 AE_9	19.7	R	G96
2005 CT_{81}	2005 02 04.29398	07 50 37.96	+30 12 06.5	2005 AE_9	19.4	R	G96
2005 CT_{81}	2005 02 04.30186	07 50 37.59	+30 12 07.5	2005 AE_9	20.0	R	G96
2005 CT_{81}	2005 02 04.30978	07 50 37.22	+30 12 08.4	2005 AE_9	18.8	R	G96
2005 KR_{14}	*2005 05 19.25295	14 41 16.82	−11 22 47.6	2005 KS_3	19.2	R	G96
2005 KR_{14}	2005 05 19.25957	14 41 16.44	−11 22 46.5	2005 KS_3	20.0	R	G96
2005 KR_{14}	2005 05 19.26620	14 41 16.11	−11 22 45.4	2005 KS_3	19.8	R	G96
2005 KR_{14}	2005 05 19.27284	14 41 15.77	−11 22 44.4	2005 KS_3	20.2	R	G96
2005 TE_{198}	*2005 10 01.30670	00 10 59.30	+08 42 00.7	2005 VU_{61}	19.8	V	703
2005 TE_{198}	2005 10 01.31318	00 10 59.05	+08 41 57.0	2005 VU_{61}	19.0	V	703
2005 TE_{198}	2005 10 01.31970	00 10 58.69	+08 41 55.1	2005 VU_{61}	19.4	V	703
2005 TE_{198}	2005 10 01.32624	00 10 58.36	+08 41 51.5	2005 VU_{61}	20.1	V	703
2005 XK_{119}	*2005 12 04.30012	04 11 15.68	+20 21 59.2	2005 WB_{165}	21.9	V	G96
2005 XK_{119}	2005 12 04.30508	04 11 15.39	+20 21 59.4	2005 WB_{165}	20.8	V	G96
2005 XK_{119}	2005 12 04.31008	04 11 15.10	+20 21 59.4	2005 WB_{165}	20.8	V	G96
2005 XK_{119}	2005 12 04.31512	04 11 14.92	+20 21 59.3	2005 WB_{165}	21.2	V	G96
2006 CW_{80}	*2006 02 03.16247	05 21 11.19	+19 32 06.0	2006 BO_{218}	21.0	V	G96
2006 CW_{80}	2006 02 03.16732	05 21 11.26	+19 32 07.5	2006 BO_{218}	20.9	V	G96
2006 CW_{80}	2006 02 03.17222	05 21 11.23	+19 32 08.8	2006 BO_{218}	21.0	V	G96
2006 CW_{80}	2006 02 03.17713	05 21 11.30	+19 32 09.6	2006 BO_{218}	20.9	V	G96
2006 FU_{55}	*2006 03 26.34512	13 45 58.82	−11 55 47.4	2007 QO_{14}	20.6	V	G96
2006 FU_{55}	2006 03 26.35447	13 45 58.39	−11 55 45.0	2007 QO_{14}	20.8	V	G96
2006 FU_{55}	2006 03 26.36368	13 45 58.10	−11 55 42.0	2007 QO_{14}	20.9	V	G96
2006 FU_{55}	2006 03 26.37302	13 45 57.67	−11 55 39.9	2007 QO_{14}	21.5	V	G96
2006 KU_{145}	*2006 05 25.40341	16 58 00.01	−07 19 51.9	2006 OJ_3	20.4	V	G96
2006 KU_{145}	2006 05 25.40891	16 57 59.72	−07 19 51.2	2006 OJ_3	19.9	V	G96
2006 KU_{145}	2006 05 25.41448	16 57 59.43	−07 19 50.7	2006 OJ_3	19.7	V	G96
2006 KU_{145}	2006 05 25.42008	16 57 59.18	−07 19 50.9	2006 OJ_3	20.2	V	G96
2006 LD_8	*2006 06 03.42703	20 49 56.13	−20 11 48.7	2013 BK_{35}	20.2	V	G96
2006 LD_8	2006 06 03.43363	20 49 56.35	−20 11 47.3	2013 BK_{35}	20.3	V	G96
2006 LD_8	2006 06 03.44020	20 49 56.60	−20 11 46.4	2013 BK_{35}	20.4	V	G96
2006 LD_8	2006 06 03.44677	20 49 56.82	−20 11 45.3	2013 BK_{35}	20.5	V	G96
2006 US_{362}	*2006 10 21.35855	03 03 50.47	+20 49 14.6	2006 WS_{17}	20.8	V	691
2006 US_{362}	2006 10 21.37600	03 03 49.51	+20 49 10.9	2006 WS_{17}	21.3	V	691
2006 US_{362}	2006 10 21.39690	03 03 48.35	+20 49 06.2	2006 WS_{17}	21.1	V	691
2006 VU_{174}	*2006 11 01.22569	02 07 48.79	+07 44 31.2	2006 UJ_{169}	20.3	V	G96
2006 VU_{174}	2006 11 01.23145	02 07 48.50	+07 44 30.9	2006 UJ_{169}	20.2	V	G96
2006 VU_{174}	2006 11 01.23721	02 07 48.18	+07 44 30.4	2006 UJ_{169}	20.1	V	G96
2006 VU_{174}	2006 11 01.24291	02 07 47.89	+07 44 30.1	2006 UJ_{169}	20.3	V	G96
2007 HC_{99}	*2007 04 22.21769	11 22 10.34	−00 45 13.6	2010 NY_{22}	21.5	V	G96
2007 HC_{99}	2007 04 22.22462	11 22 10.16	−00 45 12.7	2010 NY_{22}	22.0	V	G96
2007 HC_{99}	2007 04 22.23147	11 22 10.02	−00 45 11.1	2010 NY_{22}	21.5	V	G96
2007 HC_{99}	2007 04 22.23837	11 22 09.87	−00 45 10.1	2010 NY_{22}	21.3	V	G96
2007 PX_{50}	*2007 08 10.34457	23 10 56.03	−03 08 06.4	2007 RZ_{210}	20.2	V	691
2007 PX_{50}	2007 08 10.36222	23 10 55.42	−03 08 06.7	2007 RZ_{210}	20.6	V	691
2007 PX_{50}	2007 08 10.37987	23 10 54.79	−03 08 08.2	2007 RZ_{210}	20.5	V	691
2007 VL_{337}	*2007 11 09.31816	04 40 23.44	+21 42 21.1	2007 VM_{164}	21.0	V	691
2007 VL_{337}	2007 11 09.33580	04 40 22.66	+21 42 19.9	2007 VM_{164}	21.0	V	691
2007 VL_{337}	2007 11 09.35107	04 40 21.90	+21 42 19.0	2007 VM_{164}	21.2	V	691
2007 WJ_{64}	*2007 11 20.16475	03 20 35.00	+12 01 44.2	2007 WZ_{22}	20.1	V	691
2007 WJ_{64}	2007 11 20.18236	03 20 34.04	+12 01 43.6	2007 WZ_{22}	20.2	V	691
2007 WJ_{64}	2007 11 20.19997	03 20 33.11	+12 01 42.7	2007 WZ_{22}	20.4	V	691
2008 GF_{148}	*2008 04 14.18199	11 33 20.05	+13 18 28.8	2008 EG_{168}	21.0	V	G96
2008 GF_{148}	2008 04 14.18872	11 33 19.83	+13 18 29.0	2008 EG_{168}	21.8	V	G96
2008 GF_{148}	2008 04 14.19530	11 33 19.62	+13 18 29.4	2008 EG_{168}	21.1	V	G96
2008 GF_{148}	2008 04 14.20210	11 33 19.36	+13 18 28.8	2008 EG_{168}	22.1	V	G96
2008 QS_{48}	*2008 08 20.39036	22 46 03.32	−08 54 43.6	2008 RR_{90}	20.7	V	691
2008 QS_{48}	2008 08 20.40795	22 46 02.26	−08 54 44.8	2008 RR_{90}	20.9	V	691
2008 QS_{48}	2008 08 20.42553	22 46 01.22	−08 54 46.1	2008 RR_{90}	20.6	V	691
2008 TK_{191}	*2008 10 10.37795	02 24 44.85	+09 58 36.5	2008 SA_{306}	21.0	V	691
2008 TK_{191}	2008 10 10.39558	02 24 44.11	+09 58 33.6	2008 SA_{306}	21.2	V	691
2008 TK_{191}	2008 10 10.41319	02 24 43.45	+09 58 30.9	2008 SA_{306}	21.3	V	691
2008 VM_{81}	*2008 11 06.22925	00 32 55.57	+12 53 32.8	2008 UR_{327}	20.7	V	G96
2008 VM_{81}	2008 11 06.23463	00 32 55.46	+12 53 30.4	2008 UR_{327}	20.7	V	G96
2008 VM_{81}	2008 11 06.24006	00 32 55.42	+12 53 28.4	2008 UR_{327}	20.5	V	G96
2008 VM_{81}	2008 11 06.24545	00 32 55.28	+12 53 25.9	2008 UR_{327}	21.0	V	G96
2008 WS_{142}	*2008 11 27.98047	03 08 07.91	+08 01 31.7	2008 VQ_{67}	19.9	V	J75
2008 WS_{142}	2008 11 27.99360	03 08 07.20	+08 01 32.3	2008 VQ_{67}	19.6	V	J75
2008 WS_{142}	2008 11 28.00640	03 08 06.46	+08 01 32.9	2008 VQ_{67}	19.3	V	J75
2008 WS_{142}	2008 12 01.29243	03 05 22.95	+08 06 04.8	2008 VQ_{67}	19.5	V	703
2008 WS_{142}	2008 12 01.30037	03 05 22.59	+08 06 06.1	2008 VQ_{67}	19.6	V	703
2008 WS_{142}	2008 12 01.30812	03 05 22.16	+08 06 07.6	2008 VQ_{67}	19.2	V	703
2008 WS_{142}	2008 12 01.31596	03 05 21.80	+08 06 08.1	2008 VQ_{67}	19.6	V	703
2009 AQ_{51}	*2009 01 02.42911	08 09 21.27	+20 54 56.1	2008 YK_{125}	21.2	V	G96
2009 AQ_{51}	2009 01 02.43825	08 09 20.80	+20 54 58.5	2008 YK_{125}	21.1	V	G96
2009 AQ_{51}	2009 01 02.44742	08 09 20.37	+20 55 01.2	2008 YK_{125}	21.3	V	G96
2009 AQ_{51}	2009 01 02.45654	08 09 19.87	+20 55 03.4	2008 YK_{125}	21.1	V	G96
2009 BC_{192}	*2009 01 16.27126	07 58 45.76	+21 58 09.6	2009 AQ_{12}	20.4	V	G96
2009 BC_{192}	2009 01 16.27770	07 58 45.33	+21 58 10.8	2009 AQ_{12}	20.3	V	G96
2009 BC_{192}	2009 01 16.28410	07 58 44.86	+21 58 11.6	2009 AQ_{12}	19.9	V	G96
2009 BC_{192}	2009 01 16.29049	07 58 44.47	+21 58 12.7	2009 AQ_{12}	20.1	V	G96
2009 BD_{192}	*2009 01 16.27126	07 59 03.26	+21 57 54.2	2009 AR_{12}	21.2	V	G96
2009 BD_{192}	2009 01 16.27770	07 59 02.90	+21 57 55.6	2009 AR_{12}	21.3	V	G96
2009 BD_{192}	2009 01 16.28410	07 59 02.50	+21 57 56.7	2009 AR_{12}	21.1	V	G96
2009 BD_{192}	2009 01 16.29049	07 59 02.11	+21 57 58.0	2009 AR_{12}	20.9	V	G96
2009 DY_{144}	*2009 02 20.24306	11 25 42.65	+08 32 41.9	2006 SR_{373}	20.8	V	691
2009 DY_{144}	2009 02 20.26144	11 25 41.83	+08 32 47.8	2006 SR_{373}	21.4	V	691
2009 DY_{144}	2009 02 20.27958	11 25 40.99	+08 32 53.3	2006 SR_{373}	20.9	V	691
2009 UM_{158}	*2009 10 22.31424	01 24 33.73	+18 05 43.5	2009 TL_{37}	19.6	V	703
2009 UM_{158}	2009 10 22.32267	01 24 33.22	+18 05 39.3	2009 TL_{37}	20.2	V	703
2009 UM_{158}	2009 10 22.33112	01 24 32.76	+18 05 37.1	2009 TL_{37}	20.0	V	703
2009 UM_{158}	2009 10 22.33956	01 24 32.22	+18 05 34.0	2009 TL_{37}	20.0	V	703
2009 WY_{268}	*2009 11 24.20247	03 23 40.81	+22 22 01.8	2008 FT_{110}	20.9	V	G96
2009 WY_{268}	2009 11 24.20933	03 23 40.34	+22 22 00.1	2008 FT_{110}	21.1	V	G96
2009 WY_{268}	2009 11 24.21616	03 23 39.84	+22 21 58.2	2008 FT_{110}	21.0	V	G96
2009 WY_{268}	2009 11 24.22300	03 23 39.44	+22 21 55.8	2008 FT_{110}	21.2	V	G96
2009 XZ_{25}	*2009 12 10.35157	05 22 46.63	+22 26 18.8	2009 WK_{253}	18.6	V	G96

2009 XZ_{25}	2009 12 10.35720	05 22 46.30	+22 26 18.8	2009 WK_{253}	19.1	V	G96
2009 XZ_{25}	2009 12 10.36271	05 22 45.98	+22 26 19.5	2009 WK_{253}	19.0	V	G96
2009 XZ_{25}	2009 12 10.36821	05 22 45.66	+22 26 19.9	2009 WK_{253}	19.0	V	G96
2010 CA_{252}	*2010 02 14.49882	14 52 57.61	−09 30 03.3	2010 OF_{62}	22.2	V	G96
2010 CA_{252}	2010 02 14.50419	14 52 57.82	−09 30 02.8	2010 OF_{62}	21.2	V	G96
2010 CA_{252}	2010 02 14.50958	14 52 58.15	−09 30 02.3	2010 OF_{62}	20.7	V	G96
2010 CA_{252}	2010 02 14.51495	14 52 58.26	−09 30 02.3	2010 OF_{62}	20.4	V	G96
2010 DJ_{93}	*2010 02 19.86514	08 31 55.85	+30 33 16.5	2010 BF_{1}	20.0	R	J47
2010 DJ_{93}	2010 02 19.87181	08 31 55.62	+30 33 14.7	2010 BF_{1}	20.8	R	J47
2010 DJ_{93}	2010 02 19.87701	08 31 55.47	+30 33 13.3	2010 BF_{1}	20.0	R	J47
2010 GV_{175}	*2010 04 15.26302	12 53 42.28	−10 14 38.1	2010 GH_{103}	21.3	V	G96
2010 GV_{175}	2010 04 15.26996	12 53 41.92	−10 14 35.5	2010 GH_{103}	21.1	V	G96
2010 GV_{175}	2010 04 15.27700	12 53 41.53	−10 14 33.0	2010 GH_{103}	21.3	V	G96
2010 GV_{175}	2010 04 15.28406	12 53 41.20	−10 14 30.2	2010 GH_{103}	20.9	V	G96
2010 GW_{175}	*2010 04 13.28304	12 11 20.50	+01 47 47.2	2010 FH_{97}	20.4	V	G96
2010 GW_{175}	2010 04 13.28907	12 11 20.25	+01 47 47.8	2010 FH_{97}	20.6	V	G96
2010 GW_{175}	2010 04 13.29515	12 11 19.96	+01 47 49.0	2010 FH_{97}	20.4	V	G96
2010 GW_{175}	2010 04 13.30124	12 11 19.71	+01 47 49.7	2010 FH_{97}	20.8	V	G96
2010 RO_{187}	*2010 09 06.27206	22 34 10.12	−04 50 25.6	2010 RO_{32}	21.6	V	G96
2010 RO_{187}	2010 09 06.27964	22 34 09.62	−04 50 27.3	2010 RO_{32}	22.0	V	G96
2010 RO_{187}	2010 09 06.28721	22 34 09.22	−04 50 29.0	2010 RO_{32}	22.1	V	G96
2010 RO_{187}	2010 09 06.29514	22 34 08.76	−04 50 31.9	2010 RO_{32}	21.5	V	G96
2010 RP_{187}	*2010 09 11.28495	22 59 00.70	+00 35 21.4	2010 RE_{162}	19.5	V	703
2010 RP_{187}	2010 09 11.29012	22 59 00.49	+00 35 21.5	2010 RE_{162}	19.7	V	703
2010 RP_{187}	2010 09 11.29529	22 59 00.34	+00 35 21.3	2010 RE_{162}	19.3	V	703
2010 RP_{187}	2010 09 11.30047	22 58 59.98	+00 35 20.0	2010 RE_{162}	20.0	V	703
2010 RQ_{187}	*2010 09 06.27316	22 32 20.04	−06 20 20.7	2010 RL_{33}	20.2	V	G96
2010 RQ_{187}	2010 09 06.28077	22 32 19.64	−06 20 22.2	2010 RL_{33}	20.2	V	G96
2010 RQ_{187}	2010 09 06.28834	22 32 19.28	−06 20 23.7	2010 RL_{33}	20.2	V	G96
2010 RQ_{187}	2010 09 06.29630	22 32 18.88	−06 20 25.0	2010 RL_{33}	20.4	V	G96
2010 RR_{187}	*2010 09 06.27374	22 32 32.74	−06 48 17.8	2010 RO_{33}	20.7	V	G96
2010 RR_{187}	2010 09 06.28137	22 32 32.38	−06 48 21.7	2010 RO_{33}	20.9	V	G96
2010 RR_{187}	2010 09 06.28890	22 32 32.02	−06 48 24.7	2010 RO_{33}	21.5	V	G96
2010 RR_{187}	2010 09 06.29688	22 32 31.66	−06 48 29.3	2010 RO_{33}	21.9	V	G96
2010 RS_{187}	*2010 09 06.86000	23 22 03.25	−04 02 13.0	2010 RU_{64}	20	R	461
2010 RS_{187}	2010 09 06.87568	23 22 02.40	−04 02 18.2	2010 RU_{64}			461
2010 RS_{187}	2010 09 06.88352	23 22 01.96	−04 02 20.6	2010 RU_{64}			461
2010 RS_{187}	2010 09 11.30794	23 18 10.26	−04 27 47.7	2010 RU_{64}	20.2	V	G96
2010 RT_{187}	*2010 09 06.86000	23 22 40.88	−04 03 13.5	2010 RV_{64}	20.5	R	461
2010 RT_{187}	2010 09 06.87568	23 22 40.13	−04 03 19.0	2010 RV_{64}			461
2010 RT_{187}	2010 09 06.88352	23 22 39.83	−04 03 20.9	2010 RV_{64}			461
2010 RU_{187}	*2010 09 11.31579	23 18 09.93	−04 27 51.7	2010 RU_{64}	19.9	V	G96
2010 RU_{187}	2010 09 11.32363	23 18 09.61	−04 27 55.8	2010 RU_{64}	20.3	V	G96
2010 RU_{187}	2010 09 11.33609	23 18 09.07	−04 28 02.2	2010 RU_{64}	20.0	V	G96
2010 RU_{187}	2010 09 11.33796	23 18 09.00	−04 28 03.0	2010 RU_{64}	20.1	V	G96
2010 RU_{187}	2010 09 11.33984	23 18 08.92	−04 28 03.8	2010 RU_{64}	20.1	V	G96
2010 RU_{187}	2010 09 11.34170	23 18 08.85	−04 28 04.9	2010 RU_{64}	20.4	V	G96
2010 SN_{43}	*2010 09 16.16861	20 56 16.94	−06 45 56.7	2010 RJ_{158}	20.6	V	G96
2010 SN_{43}	2010 09 16.17632	20 56 16.80	−06 45 58.0	2010 RJ_{158}	19.9	V	G96
2010 SN_{43}	2010 09 16.18405	20 56 16.62	−06 45 59.0	2010 RJ_{158}	20.5	V	G96
2010 SN_{43}	2010 09 16.19171	20 56 16.44	−06 46 00.6	2010 RJ_{158}	20.2	V	G96
2010 SO_{43}	*2010 09 17.34882	00 12 38.84	+08 12 45.9	2010 MZ_{85}	21.9	V	G96
2010 SO_{43}	2010 09 17.35812	00 12 38.48	+08 12 42.3	2010 MZ_{85}	21.0	V	G96
2010 SO_{43}	2010 09 17.36743	00 12 38.05	+08 12 38.2	2010 MZ_{85}	21.6	V	G96
2010 SO_{43}	2010 09 17.37682	00 12 37.65	+08 12 35.3	2010 MZ_{85}	21.4	V	G96
2011 HP_{103}	*2011 04 28.32811	14 20 57.84	−14 18 36.4	2012 VA_{109}	21.3	V	G96
2011 HP_{103}	2011 04 28.33367	14 20 57.48	−14 18 35.9	2012 VA_{109}	21.1	V	G96
2011 HP_{103}	2011 04 28.33932	14 20 57.12	−14 18 35.3	2012 VA_{109}	22.0	V	G96
2011 HP_{103}	2011 04 28.34488	14 20 56.68	−14 18 34.4	2012 VA_{109}	21.2	V	G96
2011 OZ_{59}	*2011 07 20.39155	19 37 03.984	−13 17 12.26	2011 NL_{2}	20.7	i	F51
2011 OZ_{59}	2011 07 20.40225	19 37 03.406	−13 17 15.33	2011 NL_{2}	20.5	i	F51
2011 OZ_{59}	2011 07 20.41554	19 37 02.628	−13 17 18.29	2011 NL_{2}	20.7	r	F51
2011 PS_{15}	*2011 08 02.34322	20 21 42.113	+12 16 13.95	2011 OG_{58}	21.1	r	F51
2011 PS_{15}	2011 08 02.35329	20 21 41.614	+12 16 12.28	2011 OG_{58}	21.0	r	F51
2011 PS_{15}	2011 08 02.36480	20 21 41.050	+12 16 10.23	2011 OG_{58}	21.3	g	F51
2011 RX_{19}	*2011 09 08.34650	00 46 42.54	+01 53 47.9	2011 RT_{10}			691
2011 RX_{19}	2011 09 08.36425	00 46 41.78	+01 53 47.1	2011 RT_{10}			691
2011 RX_{19}	2011 09 08.38197	00 46 41.09	+01 53 46.3	2011 RT_{10}			691
2011 UB_{413}	*2011 10 20.30674	01 56 47.22	+10 01 46.9	2011 UP_{19}	21.0	V	G96
2011 UB_{413}	2011 10 20.31133	01 56 47.00	+10 01 45.8	2011 UP_{19}	21.3	V	G96
2011 UB_{413}	2011 10 20.31590	01 56 46.78	+10 01 44.5	2011 UP_{19}	20.8	V	G96
2011 UB_{413}	2011 10 20.32056	01 56 46.57	+10 01 43.8	2011 UP_{19}	21.5	V	G96
2011 UC_{413}	*2011 10 20.30674	01 56 51.50	+10 01 28.7	2011 UB_{122}	20.6	V	G96
2011 UC_{413}	2011 10 20.31133	01 56 51.25	+10 01 27.8	2011 UB_{122}	20.5	V	G96
2011 UC_{413}	2011 10 20.31590	01 56 51.07	+10 01 26.6	2011 UB_{122}	20.8	V	G96
2011 UC_{413}	2011 10 20.32056	01 56 50.85	+10 01 25.7	2011 UB_{122}	20.2	V	G96
2011 VE_{24}	*2011 11 01.17948	01 20 35.48	+01 35 42.9	2011 UP_{352}	20.7	V	G96
2011 VE_{24}	2011 11 01.18691	01 20 35.12	+01 35 41.7	2011 UP_{352}	20.9	V	G96
2011 VE_{24}	2011 11 01.19446	01 20 34.80	+01 35 40.5	2011 UP_{352}	20.6	V	G96
2011 VE_{24}	2011 11 01.20187	01 20 34.47	+01 35 39.4	2011 UP_{352}	20.7	V	G96
2012 BF_{154}	*2012 01 21.31982	09 08 40.41	+20 15 39.8	2012 BW_{11}	19.8	V	703
2012 BF_{154}	2012 01 21.32501	09 08 40.20	+20 15 40.3	2012 BW_{11}	20.7	V	703
2012 BF_{154}	2012 01 21.33016	09 08 39.76	+20 15 42.6	2012 BW_{11}	20.3	V	703
2012 BF_{154}	2012 01 21.33532	09 08 39.48	+20 15 44.6	2012 BW_{11}	19.7	V	703
2012 XZ_{157}	*2012 12 08.38694	04 57 22.14	+20 29 07.9	2012 XZ_{33}	20.2	V	G96
2012 XZ_{157}	2012 12 08.39221	04 57 21.78	+20 29 06.7	2012 XZ_{33}	19.9	V	G96
2012 XZ_{157}	2012 12 08.39746	04 57 21.45	+20 29 06.1	2012 XZ_{33}	20.0	V	G96
2012 XZ_{157}	2012 12 08.40277	04 57 21.09	+20 29 04.8	2012 XZ_{33}	20.0	V	G96
2013 AK_{183}	*2013 01 12.29669	07 21 50.76	+24 34 21.2	2008 AG_{134}	20.3	V	G96
2013 AK_{183}	2013 01 12.30200	07 21 50.43	+24 34 22.5	2008 AG_{134}	20.4	V	G96
2013 AK_{183}	2013 01 12.30954	07 21 50.00	+24 34 23.3	2008 AG_{134}	19.9	V	G96
2013 AK_{183}	2013 01 12.31478	07 21 49.75	+24 34 24.2	2008 AG_{134}	19.7	V	G96
2013 AL_{183}	*2013 01 12.26826	04 31 02.49	+22 38 10.9	2010 CL_{17}	20.9	V	G96
2013 AL_{183}	2013 01 12.27358	04 31 02.35	+22 38 09.2	2010 CL_{17}	21.6	V	G96
2013 AL_{183}	2013 01 12.27896	04 31 02.28	+22 38 08.4	2010 CL_{17}	21.2	V	G96
2013 AL_{183}	2013 01 12.28429	04 31 02.13	+22 38 06.5	2010 CL_{17}	20.8	V	G96
2013 AM_{183}	*2013 01 13.17465	04 37 16.93	+24 02 35.3	2013 AE_{133}	20.6	V	G96
2013 AM_{183}	2013 01 13.17929	04 37 16.75	+24 02 36.4	2013 AE_{133}	20.9	V	G96
2013 AM_{183}	2013 01 13.18396	04 37 16.64	+24 02 36.1	2013 AE_{133}	20.7	V	G96
2013 AM_{183}	2013 01 13.18860	04 37 16.46	+24 02 37.2	2013 AE_{133}	20.5	V	G96
2013 BJ_{82}	*2013 01 22.44415	08 23 44.47	+04 58 52.4	2013 BU_{70}	20.3	R	291
2013 BJ_{82}	2013 01 22.45326	08 23 44.04	+04 58 53.0	2013 BU_{70}	20.3	R	291
2013 BJ_{82}	2013 01 22.46238	08 23 43.55	+04 58 54.0	2013 BU_{70}	20.3	R	291
2013 BK_{82}	*2013 01 22.39241	08 21 23.83	+25 17 46.3	2013 BN_{50}	20.5	V	G96
2013 BK_{82}	2013 01 22.39939	08 21 23.40	+25 17 47.3	2013 BN_{50}	20.6	V	G96
2013 BK_{82}	2013 01 22.40635	08 21 22.93	+25 17 48.0	2013 BN_{50}	20.3	V	G96

2013 BK_{82}	2013 01 22.41334	08 21 22.53	+25 17 48.9	2013 BN_{50}	20.4	V	G96
2013 CB_{223}	*2013 02 14.35572	11 13 22.32	+08 16 28.3	2007 RX_{127}	21.4	V	691
2013 CB_{223}	2013 02 14.37337	11 13 21.51	+08 16 33.2	2007 RX_{127}	21.9	V	691
2013 CB_{223}	2013 02 14.39102	11 13 20.69	+08 16 38.8	2007 RX_{127}	21.5	V	691
2013 EW_{153}	*2013 03 14.48954	15 53 56.25	+17 29 24.3	2013 JV_7			I41
2013 EW_{153}	2013 03 14.49071	15 53 56.31	+17 29 23.8	2013 JV_7			I41
2013 EW_{153}	2013 03 14.49187	15 53 56.29	+17 29 23.8	2013 JV_7			I41
2013 TG_{159}	*2013 10 08.34091	00 06 14.851	+11 26 20.55	2013 TS_{90}	20.5	w	F51
2013 TG_{159}	2013 10 08.35437	00 06 14.238	+11 26 15.25	2013 TS_{90}	20.6	w	F51
2013 TG_{159}	2013 10 08.36795	00 06 13.640	+11 26 09.96	2013 TS_{90}	20.6	w	F51
2013 TG_{159}	2013 10 08.39213	00 06 12.565	+11 26 00.34	2013 TS_{90}	20.7	w	F51
2013 UC_{15}	*2013 10 22.23542	00 29 49.41	+04 05 51.9	2013 TB_{70}	20.4	V	G96
2013 UC_{15}	2013 10 22.24064	00 29 49.17	+04 05 51.9	2013 TB_{70}	20.4	V	G96
2013 UC_{15}	2013 10 22.24589	00 29 48.92	+04 05 51.9	2013 TB_{70}	20.7	V	G96
2013 UC_{15}	2013 10 22.25111	00 29 48.67	+04 05 52.3	2013 TB_{70}	21.0	V	G96
2014 BU_{64}	*2014 01 23.13688	03 30 54.30	+24 29 13.7	2013 WZ_7	21.3	V	G96
2014 BU_{64}	2014 01 23.14294	03 30 54.35	+24 29 14.6	2013 WZ_7	21.1	V	G96
2014 BU_{64}	2014 01 23.14901	03 30 54.45	+24 29 15.1	2013 WZ_7	21.1	V	G96
2014 BU_{64}	2014 01 23.15509	03 30 54.48	+24 29 15.9	2013 WZ_7	21.2	V	G96
2014 EV_{51}	*2014 03 08.33120	12 15 25.61	+09 03 02.1	2014 DA_{60}	20.1	V	G96
2014 EV_{51}	2014 03 08.33950	12 15 25.25	+09 03 06.8	2014 DA_{60}	20.0	V	G96
2014 EV_{51}	2014 03 08.34779	12 15 24.88	+09 03 11.1	2014 DA_{60}	20.1	V	G96
2014 EV_{51}	2014 03 08.35608	12 15 24.50	+09 03 15.7	2014 DA_{60}	20.1	V	G96
2014 EW_{51}	*2014 03 12.26750	12 12 33.58	+09 38 48.5	2014 EY_{35}	19.9	V	G96
2014 EW_{51}	2014 03 12.27311	12 12 33.30	+09 38 51.6	2014 EY_{35}	20.2	V	G96
2014 EW_{51}	2014 03 12.27873	12 12 33.08	+09 38 55.0	2014 EY_{35}	19.9	V	G96
2014 EW_{51}	2014 03 12.28437	12 12 32.80	+09 38 57.9	2014 EY_{35}	20.0	V	G96
2014 JZ_{79}	*2014 05 10.46512	15 06 47.974	−19 16 12.05	2014 JX_{68}	20.2	i	F51
2014 JZ_{79}	2014 05 10.47726	15 06 47.311	−19 16 09.19	2014 JX_{68}	20.4	i	F51
2014 JZ_{79}	2014 05 10.48935	15 06 46.619	−19 16 06.38	2014 JX_{68}	20.2	i	F51
2014 JZ_{79}	2014 05 10.50146	15 06 45.980	−19 16 03.14	2014 JX_{68}	20.2	i	F51
2014 SA_{349}	*2014 09 28.266410	02 11 23.75	−23 31 03.7	2014 SS_{339}	20.2	R	W87
2014 SA_{349}	2014 09 28.270462	02 11 23.56	−23 31 02.4	2014 SS_{339}	20.1	R	W87
2014 SA_{349}	2014 09 28.274478	02 11 23.36	−23 31 01.1	2014 SS_{339}	20.2	R	W87
2014 SA_{349}	2014 09 28.278496	02 11 23.17	−23 31 00.0	2014 SS_{339}	19.9	R	W87
2014 UG_{224}	*2014 10 23.34953	03 58 17.23	+15 47 47.6	2014 UH_{21}	20.7	V	691
2014 UG_{224}	2014 10 23.36983	03 58 16.52	+15 47 40.1	2014 UH_{21}	20.8	V	691
2014 UG_{224}	2014 10 23.39015	03 58 15.80	+15 47 33.3	2014 UH_{21}	20.8	V	691
2014 VS_{37}	*2014 11 01.29331	01 48 37.68	+01 55 03.3	2014 UZ_{223}	19.4	V	703
2014 VS_{37}	2014 11 01.29936	01 48 37.31	+01 55 01.6	2014 UZ_{223}	18.6	V	703
2014 VS_{37}	2014 11 01.30542	01 48 37.03	+01 54 59.5	2014 UZ_{223}	19.4	V	703
2014 WJ_{508}	*2014 11 17.23768	02 37 39.74	+13 37 04.8	2014 SA_{307}	20.3	r	G45
2014 WJ_{508}	2014 11 17.24182	02 37 39.54	+13 37 03.5	2014 SA_{307}	20.3	r	G45
2014 WJ_{508}	2014 11 17.24630	02 37 39.30	+13 37 02.2	2014 SA_{307}	20.3	r	G45
2014 WJ_{508}	2014 11 17.25695	02 37 38.77	+13 36 57.2	2014 SA_{307}	20.6	r	G45
2014 WJ_{508}	2014 11 18.23562	02 36 48.22	+13 30 31.3	2014 SA_{307}	20.6	r	G45
2014 WJ_{508}	2014 11 18.23986	02 36 48.03	+13 30 29.1	2014 SA_{307}	20.5	r	G45
2014 WJ_{508}	2014 11 18.24859	02 36 47.56	+13 30 26.1	2014 SA_{307}	20.3	r	G45
2014 WJ_{508}	2014 11 18.25509	02 36 47.21	+13 30 23.6	2014 SA_{307}	20.2	r	G45
2014 WK_{508}	*2014 11 23.20978	03 05 04.37	+20 42 40.1	2014 WO_{204}	20.6	V	G96
2014 WK_{508}	2014 11 23.21586	03 05 04.05	+20 42 37.9	2014 WO_{204}	20.2	V	G96
2014 WK_{508}	2014 11 23.22194	03 05 03.70	+20 42 34.7	2014 WO_{204}	20.7	V	G96
2014 WK_{508}	2014 11 23.22879	03 05 03.33	+20 42 31.3	2014 WO_{204}	20.6	V	G96
2014 WL_{508}	*2014 11 23.21177	03 04 37.86	+20 36 46.2	2014 WP_{204}	21.6	V	G96
2014 WL_{508}	2014 11 23.21785	03 04 37.52	+20 36 42.8	2014 WP_{204}	21.1	V	G96
2014 WL_{508}	2014 11 23.22393	03 04 37.12	+20 36 40.5	2014 WP_{204}	21.0	V	G96
2014 WL_{508}	2014 11 23.23078	03 04 36.68	+20 36 37.8	2014 WP_{204}	21.8	V	G96
2014 YU_{49}	*2014 12 24.55547	03 24 50.97	+22 00 31.3	2014 YT_{49}	15.1	w	C94
2014 YU_{49}	2014 12 24.55845	03 24 50.92	+22 00 32.0	2014 YT_{49}	15.2	w	C94
2014 YU_{49}	2014 12 24.56137	03 24 50.86	+22 00 32.7	2014 YT_{49}	15.1	w	C94
2015 CK_{62}	*2015 02 12.29248	08 11 39.31	+24 02 26.2	2015 CP_{12}	20.5	V	G96
2015 CK_{62}	2015 02 12.29426	08 11 39.23	+24 02 26.0	2015 CP_{12}	20.7	V	G96
2015 CK_{62}	2015 02 12.29604	08 11 39.14	+24 02 26.3	2015 CP_{12}	20.4	V	G96
2015 CK_{62}	2015 02 12.29780	08 11 39.03	+24 02 26.3	2015 CP_{12}	20.6	V	G96
2015 KK_{160}	*2015 05 19.25512	15 12 38.18	−01 00 53.3	2015 MJ_{30}	20.2	V	703
2015 KK_{160}	2015 05 19.26939	15 12 37.44	−01 00 52.1	2015 MJ_{30}	19.5	V	703
2015 KK_{160}	2015 05 19.27653	15 12 37.08	−01 00 52.5	2015 MJ_{30}	19.7	V	703
2015 LR_{40}	*2015 06 07.22028	16 02 51.18	−12 22 24.7	2015 KB_{115}	19.5	V	703
2015 LR_{40}	2015 06 07.22529	16 02 50.97	−12 22 24.9	2015 KB_{115}	19.5	V	703
2015 LR_{40}	2015 06 07.23032	16 02 50.70	−12 22 27.2	2015 KB_{115}	19.1	V	703
2015 LR_{40}	2015 06 07.23534	16 02 50.36	−12 22 27.1	2015 KB_{115}	19.8	V	703

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 94397:

1995 UL_{48} = (86485)	1996 GK_{15} = (438477)	2001 MP_{31} = (279367)
2002 FJ_{24} = (434703)	2003 BQ_{94} = (438349)	2003 BR_{94} = (438349)
2003 DC_{16} = (439555)	2003 FC_{134} = (439555)	2003 UT_{304} = (439243)
2004 GC_{89} = (181420)	2005 CT_{81} = (296822)	2005 EK_{225} = (439577)
2005 NH_{94} = (263216)	2006 BR_{161} = (439689)	2006 BT_{249} = (301806)
2006 EQ_{75} = (278755)	2006 YU_{23} = (269186)	2006 YL_{56} = (295033)
2007 EL_{225} = (255155)	2007 VH_{337} = (298047)	2008 SB_{185} = (295651)
2009 RH_6 = (271476)	2009 SA_{369} = (296550)	2009 UH_{158} = (274949)
2009 WX_{257} = (439517)	2009 WS_{268} = (279198)	2010 DB_{93} = (296916)
2010 EH_{140} = (439594)	2010 GD_{175} = (301835)	2010 GJ_{175} = (301695)
2010 GV_{175} = (439374)	2010 HX_{47} = (439653)	2010 JD_{97} = (439443)
2010 JQ_{150} = (439124)	2010 KM_{61} = (439449)	2010 KL_{130} = (75057)
2010 LU_{109} = (421727)	2010 RR_{61} = (251993)	2010 VG_{223} = (15867)
2011 CD_{119} = (251784)	2011 NL_2 = (439824)	2012 VC_{43} = (439305)
2013 AK_{183} = (439635)	2013 BJ_{82} = (290707)	2013 SF_{13} = (47683)
2014 RZ_7 = (24652)	2014 RA_8 = (182149)	2014 SN_{141} = (42639)
2014 SK_{222} = (22707)	2014 SR_{289} = (12177)	2014 SW_{289} = (28029)
2014 SC_{337} = (41183)	2014 UC_{55} = (49340)	2014 US_{109} = (60094)
2014 UO_{110} = (72678)	2014 UY_{111} = (253133)	2014 UZ_{111} = (253470)
2014 WB_{68} = (71573)	2014 WU_{117} = (47795)	2014 WA_{483} = (20782)
2014 WB_{483} = (265683)	2014 YU_{49} = (2693)	2015 CK_{62} = (425275)
2015 KK_{160} = (439803)		

NUMBERING OF PERIODIC COMETS

Continuation to the list on *MPC* 94397.

326P/2007 V2 = 2015 P1 (Hill)
327P/2002 Q1 = 2015 P2 (Van Ness)

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

033 Karl Schwarzschild Observatory, Tautenburg. Observers B. Stecklum, F. Ludwig, A. Jindal. Measurer B. Stecklum. 1.34-m $f/4$ Schmidt + CCD.

083 Golosseevo-Kiev. Observer S. Borysenko. 0.08-m $f/7.5$ refractor + CCD.

089 Nikolaev. Observers Y. Sybiryakova, Y. Kozyryev, N. Kulichenko, V. Vovk. Measurers Y. Sybiryakova, O. V. Shulga. 0.5-m $f/6.0$ Maksutov + CCD.

095 Crimea-Nauchnij. Observer S. Nazarov. Measurer T. Prystavski. 0.7-m $f/4.0$ reflector + CCD.

101 Kharkov. Observer Y. Rybak. Measurer S. Plaksa. 0.19-m $f/5$ reflector + CCD.

104 San Marcello Pistoiese. Observers P. Bacci, F. Bernardi, D. Antonacci, F. Rossi, M. Dimartino, M. Facchini, A. Valvasori, M. Bachini. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m $f/4$ reflector + CCD.

106 Črni Vrh. Observer S. Matičič. 0.6-m $f/3.3$ Deltagraph + CCD.

107 Cavezzo. Observers M. Facchini, L. Facchini. Measurer R. Bonomi. 0.4-m $f/5.5$ reflector + CCD.

139 Antibes. Observer L. Brunetto. 0.25-m $f/7$ Schmidt-Cassegrain + CCD.

152 Moletai Astronomical Observatory. Observer K. Černis. 0.35-m $f/3.5$ reflector + CCD.

157 Frasso Sabino. Observer R. Haver. 0.37-m $f/6.85$ Cassegrain + CCD.

160 Castelmartini. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann. Measurer E. Prosperi. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.

162 Potenza. Observer A. M. Giambersio. 0.28-m $f/6.3$ reflector + CCD.

203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.28-m $f/6.8$ Schmidt-Cassegrain + CCD.

204 Schiaparelli Observatory. Observer L. Buzzi. 0.60-m $f/4.64$ reflector + 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.

247 Roving Observer. Observer T. Prystavski. 0.20-m $f/4$ reflector + CCD.

260 Siding Spring-DSS. Measurer M. Meyer.

291 LPL/Spacewatch II. Observers T. H. Bressi, J. V. Scotti, R. S. McMillan. 1.8-m $f/2.7$ 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 $f/7$ reflector, 0.70-m $f/7$ reflector + CCD.

461 University of Szeged, Piszkéstető Stn. (Konkoly). Observers T. Szalai, A. Sódor, K. Sárneczky. Measurer K. Sárneczky. 0.60-m Schmidt + CCD.

467 Auckland Observatory. Observers G. W. Christie, J. K. Drummond, T. Natusch, J. Green, D. Ionescu. Measurer G. W. Christie. 0.40-m $f/10$ Schmidt-Cassegrain + 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.

566 Haleakala-NEAT/GEODSS. Observers F. Helin, S. Pravdo, K. J. Lawrence, D. L. Rabinowitz. Measurer R. J. Bouma. 1.0-m reflector + CCD.

568 Mauna Kea. Observers J. Kleyna, C. Wipper. Measurers M. Micheli, J. Kleyna. 3.6-m Canada-France-Hawaii Telescope + CCD.

583 Odessa-Mayaki. Observer V. Kashuba. Measurers V. Troianskyi, S. Kashuba. 0.80-m $f/3$ reflector + CCD.

585 Kyiv comet station. Observer A. Baransky. 0.7-m $f/4$ reflector + CCD.

595 Farra d'Isonzo. Observers L. Bittesini, E. Pettarin, G. Panterotto. Measurer E. Pettarin. 0.40-m $f/4.5$ reflector + CCD, 0.61-m $f/4.0$ reflector + CCD.

608 Haleakala-NEAT/MSSS. Observers S. Pravdo, M. Hicks, K. Lawrence, D. MacDonald, P. Kervin, J. Africano. Measurer R. J. Bouma. 1.2-m reflector + CCD.

644 Palomar Mountain/NEAT. Observers R. Bambery, E. Helin, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten. Measurer R. J. Bouma. 1.2-m Schmidt + CCD.

691 Steward Observatory, Kitt Peak. Observers T. H. Bressi, J. V. Scotti, R. S. McMillan. 0.9-m $f/3$ reflector + CCD.

703 Catalina Sky Survey. Observers R. G. Matheny, J. A. Johnson, R. A. Kowalski. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson, R. A. Kowalski, S. M. Larson, R. G. Matheny, F. C. Shelly. 0.68-m Schmidt + CCD.

750 Hobbs Observatory, Fall Creek. Observer N. Moritz. Measurer W. Childs. 0.6-m $f/5$ Newtonian reflector + CCD.

926 Tenagra II Observatory. Observers M. Schwartz, P. R. Holvorcem. Measurer M. Schwartz. 0.41-m $f/3.75$ astrograph + CCD.

939 Observatorio Rodeno. Observer J. Castellano. 0.20-m $f/10$ Schmidt-Cassegrain + CCD.

958 Observatoire de Dax. Observers P. Dupouy, J. B. de Vanssay. 0.30-m $f/6.3$ Schmidt-Cassegrain + CCD, 0.43-m $f/2.7$ reflector + CCD.

A02 Masia Cal Maciarol Modul 8. Observer J. L. Salto. 0.25-m $f/10.5$ Schmidt-Cassegrain + CCD.

A71 Stixendorf. Observers M. Jaeger, W. Vollmann, E. Prosperi, S. Prosperi. Measurer W. Vollmann. 0.25-m $f/4$ reflector + CCD.

A77 Observatoire Chante-Perdrix, Dauban. Observers J. Nicolas, A. Klotz, F. Kugel, C. Rinner, J. Nicolas, J. Nicolas. Measurers J. Nicolas, F. Kugel, J. Nicolas, C. Rinner. 0.20-m $f/4$ Schmidt-Cassegrain + CCD, 0.4-m $f/3$ reflector + CCD, 0.41-m $f/3.3$ reflector + CCD.

A98 Taurus-1 Observatory, Baran'. Observer S. Shurpakov.

B20 Observatorio Carmelita, Tiana. Observer J. M. Aymami. 0.25-m $f/4.3$ Schmidt-Cassegrain + CCD.

B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m $f/4$ Newtonian reflector + CCD.

B51 Vallauris. Observers J. Nicolas, J. Nicolas, J. Nicolas. Measurers J. Nicolas, J. Nicolas. 0.06-m $f/4.1$ reflector + CCD, 0.28-m $f/6.5$ reflector + CCD.

B53 Casal Lumbroso, Rome. Observer D. Pivato. 0.25-m $f/5.0$ reflector + CCD.

B54 Ager. Observer J. Bel. 0.30-m $f/10.28$ Schmidt-Cassegrain + CCD.

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

B75 Stazione Astronomica Betelgeuse, Magnago. Observer M. Martignoni. 0.25-m $f/10$ Schmidt-Cassegrain + CCD.

B82 Maidbronn. Observer B. Haeusler. 0.30-m Schmidt-Cassegrain + CCD.

B83 Gières. Observer T. Noel. 0.20-m $f/5.0$ reflector + CCD.

B96 Brixiis Observatory, Kruibeke. Observer E. Bryssinck. 0.4-m $f/3.8$ astrograph + 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. 0.25-m $f/4.8$ reflector + CCD.
C35 Terrassa. Observer J. Aledo. 0.40-m $f/2.5$ reflector.
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. Measurers A. K. Mainzer, J. M. Bauer, T. Grav, J. R. Masiero, J. W. Dailey, R. M. Cutri, E. L. Wright, C. Nugent, S. Sonnett, E. Kramer.
C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m $f/4$ reflector + CCD.
C86 Blanes. Observer J. Gaitan. 0.25-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. 0.11-m $f/5$ refractor + CCD, 0.60-m $f/3.2$ Newtonian reflector + CCD.
D29 Purple Mountain Observatory, XuYi Station. Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu, B. Mei. Measurers H. B. Zhao, B. Li. H. Lu, G. Zhaori. 1.04-m $f/1.8$ Schmidt + CCD.
D81 Nagano. Observer Y. Ohshima. 0.30-m $f/4.6$ reflector + CCD.
D90 RAS Observatory, Moorook. Observer K. Hills. 0.41-m $f/9$ Ritchey-Chrétien + CCD.
D95 Kurihara. Observer T. Takahashi. 0.25-m $f/4.2$ reflector + CCD.
E00 Castlemaine. Observer M. Mattiazzo.
E07 Murrumbateman. Observer D. Herald. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.
E23 Arcadia. Observer A. Hidas. 0.35-m $f/7.0$ Schmidt-Cassegrain + CCD.
E85 Farm Cove. Observers J. McCormick, J. K. Drummond. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.
E89 Geyserland Observatory, Pukehangi. Observer R. Carstens. 0.25-m $f/8.2$ Schmidt-Cassegrain + CCD.
E94 Possum Observatory, Gisborne. Observer J. Drummond. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.
F51 Pan-STARRS 1, Haleakala. Observers B. Gibson, T. Goggia, N. Primak, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chrétien + CCD.
F52 Pan-STARRS 2, Haleakala. Observers B. Gibson, T. Goggia, N. Primak, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chrétien + CCD.
G30 Casselman. Observer S. Bergeron. 0.30-m $f/5$ Ritchey-Chrétien + CCD.
G32 Elena Remote Observatory, San Pedro de Atacama. Observer A. Oreshko. 0.4-m $f/8.0$ Ritchey-Chrétien + CCD.
G39 ROAD, San Pedro de Atacama. Observers J. Hambsch, E. Bryssinck. Measurer E. Bryssinck. 0.4-m $f/6.8$ astrograph + CCD.
G40 Slooh.com Canary Islands Observatory. Observers B. Lütkenhöner, P. Cox, J. Tuten, A. D. Paul, C. Feliciano, J. Koshkin, R. E. Walker.D. Syers. Measurer B. Lütkenhöner. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD.
G45 Space Surveillance Telescope, Atom Site. Observers L. Banks, M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, W. Robertson, G. Spitz. Measurers C. Byun, M. Cornell, M. Goldberg, A. Klein, J. Ruprecht, G. Ushomirsky, J. Varey, H. Viggh, D. Woods. 3.5-m $f/1$ reflector + CCD.
G49 Minnetonka. Observer D. Brandt. 0.28-m $f/10$ Schmidt-Cassegrain + CCD.
G68 Sierra Stars Observatory, Markleeville. Observer R. Dymock. 0.51-m $f/6.8$ reflector + CCD, 0.61-m $f/10$ reflector + CCD.
G96 Mt. Lemmon Survey. Observer D. C. Fuls. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson, R. A. Kowalski, S. M. Larson, R. G. Matheny, F. C. Shelly. 1.5-m reflector + CCD.
H01 Magdalena Ridge Observatory, Socorro. Observer W. H. Ryan. 2.4-m $f/8.9$ reflector + CCD.
H06 iTelescope Observatory, Mayhill. Observers N. Paul, E. Bryssinck, A. Novichonok, M. Mattiazzo, H. Sato, R. Ligustri. Measurers N. Paul, E. Bryssinck, T. Prystavski, M. Mattiazzo, H. Sato, R. Ligustri. 0.1-m $f/5.0$ astrograph + CCD, 0.43-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.45-m $f/4.5$ reflector + CCD, 0.50-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.51-m $f/4.5$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer.
H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers S. Foglia, L. Buzzi, T. Linder, R. Holmes, M. Urbanik, T. Vorobjov. 0.61-m $f/4.5$ astrograph + CCD, 0.76-m $f/3.0$ astrograph + CCD, 1.3-m $f/4.0$ astrograph + CCD.
H36 Sandlot Observatory, Scranton. Observer G. Hug. 0.56-m reflector + CCD.
H45 Arkansas Sky Obs., Petit Jean Mountain South. Observer P. C. Sherrod. Measurers P. C. Sherrod, L. P. Sherrod. 0.51-m $f/4.3$ astrograph + CCD.
H47 Vicksburg. Observer C. Bell. 0.3-m Schmidt-Cassegrain + CCD.
I15 Wishing Star Observatory, Barrington. Observer H. Peterson. 0.35-m $f/10$ Schmidt-Cassegrain + CCD + $f/5.87$ focal reducer.
I39 Observatorio Cruz del Sur, San Justo. Observer A. Chapman. 0.20-m $f/4$ reflector + CCD.
I45 Observatorio W Crucis, San Justo. Observer C. A. Krawczenko. 0.25-m $f/4.8$ Newtonian reflector + CCD.
I47 Pierre Auger Observatory, Malargüe. Observers M. Masek, J. Jurysek, K. Honkova, J. Cerny. Measurer M. Masek. 0.3-m $f/10$ reflector + CCD.
I57 Elche. Observer J. Lozano. 0.25-m $f/6.3$ Corrected Dall-Kirkham + CCD.
I66 Taurus Australis Observatory, Brasilia. Observer M. Sparrenberger. 0.32-m $f/4.7$ reflector + CCD.
I72 Observatorio Carpe-Noctem, Madrid. No details supplied.
I81 Tarbatness Observatory, Portmahomack. Observer D. Buczynski. 0.35-m Schmidt-Cassegrain + CCD + $f/6$ focal reducer.
I89 iTelescope Observatory, Nerpio. Observer A. Novichonok. Measurer T. Prystavski. 0.15-m $f/7.3$ refractor + CCD, 0.43-m $f/6.8$ astrograph + CCD.
I93 St Pardon de Conques. Observer F. Losse. 0.40-m $f/3.7$ reflector + CCD.
I99 Observatorio Blanquita, Vaciamadrid. Observer F. Limon. 0.20-m $f/5.7$ Schmidt-Cassegrain + CCD.
J01 Observatorio Cielo Profundo, Oviedo. Observer J. Gonzalez. 0.28-m $f/6$ Schmidt-Cassegrain + CCD.
J22 Tacande Observatory, La Palma. Observer K. Hills. 0.5-m $f/2.9$ astrograph + CCD.
J31 La Axarquia. Observer J. Baez. 0.25-m $f/4.0$ reflector + CCD.
J36 Observatorio DiezALaOnce, Illana. Observer F. G. Pinilla. 0.25-m $f/4$ Schmidt-Cassegrain + CCD.
J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m $f/8.1$ Ritchey-Chrétien + CCD.

J43 Oukaïmeden Observatory, Marrakech. Observers C. Rinner, F. Kugel. Measurer F. Kugel. 0.5-m $f/3$ reflector + CCD.
J52 Observatorio Pinsoro. Observer O. Canales. 0.28-m $f/5$ Schmidt-Cassegrain + CCD.
J53 Posadas. Observer R. Benavides. 0.28-m $f/5$ Schmidt-Cassegrain + CCD.
J95 Great Shefford. Observer P. Birtwhistle. 0.40-m $f/6.0$ Schmidt-Cassegrain + CCD.
K14 Observatorio de Sencelles. Observer M. Morales. 0.20-m $f/5$ Newtonian reflector + CCD.
K22 Les Barres Observatory, Lamanon. Observer M. Deldem. 0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.4$ focal reducer.
K24 Schmelz. Observer J. Kohr. 0.25-m $f/10$ Schmidt-Cassegrain + CCD.
K25 Haute Provence Sud, Saint-Michel-l'Observatoire. Observer L. Arnold. 0.20-m $f/5.5$ Newtonian reflector + CCD.
K32 Maritime Alps Observatory, Cuneo. Observer G. Locatelli. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD.
K41 Vegaquattro Astronomical Obs., 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.
K62 Teplice Observatory. Observer Z. Moravec. 0.43-m $f/4.6$ reflector + CCD.
L04 ROASTERR-1 Observatory, Cluj-Napoca. Observers L. Hudin, V. Inceu. Measurer L. Hudin. 0.3-m $f/5.0$ reflector + CCD.
L22 Bârlad Observatory. Observer C. Vintdevara. 0.2-m $f/4$ Newtonian reflector + CCD.
L96 ISON-Byurakan Observatory. Observer V. Nevski. 0.4-m $f/2.3$ reflector + CCD.
N55 Corona Borealis Observatory, Ngari. Observers T. Chen, K. M. Lau. 0.3-m astrograph + CCD.
Q60 ISON-SSO Observatory, Siding Spring. Observer L. Elenin. 0.4-m $f/2.4$ reflector + CCD.
Q62 iTelescope Observatory, Siding Spring. Observers H. Sato, M. Suzuki, M. Urbanik, M. Mattiazzo, N. Paul, A. Novichonok, P. B. Lake, E. Guido, N. Howes, R. Ligustri. Measurers H. Sato, M. Suzuki, M. Urbanik, M. Mattiazzo, N. Paul, T. Prystavski, P. B. Lake, E. Guido, N. Howes, R. Ligustri. 0.09-m $f/4.6$ refractor + CCD, 0.1-m $f/5.0$ astrograph + CCD, 0.43-m $f/6.3$ astrograph + CCD, 0.43-m $f/6.8$ astrograph + CCD, 0.50-m $f/4.5$ reflector + CCD, 0.50-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.50-m $f/6.8$ astrograph + CCD + focal reducer, 0.51-m $f/4.5$ reflector + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.51-m $f/6.8$ astrograph + CCD + focal reducer, 0.70-m $f/6.6$ astrograph + CCD.
Q64 Siding Spring-LCOGT B. Observer T. Lister. 1.0-m $f/8$ Ritchey-Chrétien + CCD.
Q65 Warrumbungle Observatory. Observer R. Dymock. 0.51-m $f/6.8$ reflector + CCD.
Q68 Blue Mountains Observatory, Leura. Observers J. Oey, P. Camilleri, H. Williams. Measurer P. Camilleri. 0.30-m $f/5.4$ reflector + CCD, 0.34-m $f/5.9$ Schmidt-Cassegrain + CCD, 0.61-m $f/6.8$ reflector + CCD.
U69 iTelescope SRO Observatory, Auberry. Observers H. Sato, B. Haeusler, M. Mattiazzo. 0.61-m $f/6.5$ astrograph + CCD.
V86 Rattle Snake Observatory, Sedalia. Observers P.-J. Dekelver, J. Hufford. Measurer P.-J. Dekelver. 0.17-m $f/5.46$ Maksutov-Newtonian + CCD.
W88 Slooh.com Chile Observatory, La Dehesa. Observers M. Kumrucu-Lohmiller, A. D. Paul, B. Lütkenhöner. Measurers M. Kumrucu-Lohmiller, B. Lütkenhöner. 0.35-m $f/11$ Schmidt-Cassegrain + CCD.
W95 Observatorio Panameno, San Pedro de Atacama. Observers A. Maury, J.-F. Soulier. 0.4-m $f/3.6$ Newtonian reflector + CCD.
W96 CAO, San Pedro de Atacama (since 2013). Observers A. Maury, J.-G. Bosch, T. Noel, J.-F. Soulier. Measurers J.-G. Bosch, T. Noel, J.-F. Soulier. 0.4-m $f/8$ Ritchey-Chrétien + CCD.
W98 Polonia Observatory, San Pedro de Atacama. Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski. Measurers R. Reszelewski, M. Kusiak. 0.25-m $f/3.6$ astrograph + CCD.
Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros. Measurer C. Jacques. 0.28-m $f/2.2$ astrograph + CCD, 0.45-m $f/2.9$ reflector + CCD.
Z73 Observatorio Nuevos Horizontes, Camas. Observers J. Delgado, J. Olid. 0.23-m $f/4.7$ Schmidt-Cassegrain + CCD.
Z81 Observatorio Estrella de Mar. Observer G. Liñán. 0.28-m Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer.
Z90 Albox. Observer J. L. Maestre. 0.4-m $f/10$ Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.		N Obs.
128P/Shoemaker-Holt							
128P-B	2015 08 16.92219		22 39 26.44	−03 11 51.5	17.4	T	K K41
128P-B	2015 08 16.92499		22 39 25.93	−03 11 52.6	18.0	T	K K41
128P-B	2015 08 20.83683		22 37 18.51	−03 24 39.8	19.6	T	K K41
128P-B	2015 08 20.91447		22 37 15.91	−03 24 52.7	18.3	T	K K41
C/2000 CT_{54} (LINEAR)							
C/2000 CT_{54}	2002 07 28.57144		01 36 13.50	−02 25 01.0	18.0	N	608
C/2000 CT_{54}	2002 07 28.58231		01 36 13.41	−02 24 58.6	17.7	N	608
C/2000 CT_{54}	2002 09 08.54591		01 21 50.36	−01 20 36.5	17.9	N	608
C/2000 CT_{54}	2002 09 08.55641		01 21 49.97	−01 20 36.2			608
C/2000 CT_{54}	2002 09 08.60419		01 21 48.24	−01 20 32.8	17.7	N	608
C/2000 CT_{54}	2002 09 11.50601		01 20 03.66	−01 18 14.6	17.6	N	608
C/2000 CT_{54}	2002 09 11.51709		01 20 03.20	−01 18 14.8	17.5	N	608
C/2000 CT_{54}	2002 09 11.52794		01 20 02.83	−01 18 13.9	17.7	N	608
C/2000 CT_{54}	2002 11 02.41797		00 45 41.00	−00 22 54.4	17.9	N	608
C/2000 CT_{54}	2002 11 02.42873		00 45 40.63	−00 22 53.0			608
C/2000 CT_{54}	2002 11 02.43934		00 45 40.33	−00 22 51.1	18.0	N	608
C/2000 Y2 (Skiff)							
C/2000 Y2	2000 11 22.63701		09 06 58.20	+03 17 37.0	18.8	N	608
C/2000 Y2	2000 11 22.64753		09 06 58.70	+03 17 32.9	18.9	N	608
C/2000 Y2	2000 12 30.54359		09 24 37.91	+00 36 42.7	18.3	N	608
C/2000 Y2	2000 12 30.55431		09 24 37.98	+00 36 41.5	18.2	N	608
C/2000 Y2	2001 01 19.49557		09 24 02.70	+00 35 09.3	17.5	N	608
C/2000 Y2	2001 01 19.50712		09 24 02.56	+00 35 10.5	17.6	N	608
C/2000 Y2	2001 01 19.51760		09 24 02.43	+00 35 11.5	17.7	N	608
C/2000 Y2	2001 05 22.25760		10 04 53.09	+08 16 37.9	19.0	N	608
C/2000 Y2	2001 05 22.26852		10 04 53.87	+08 16 36.7	17.3	N	608
C/2001 C1 (LINEAR)							
C/2001 C1	2000 04 30.46635		13 59 16.17	+17 12 04.8	18.4	N	566
C/2001 C1	2000 04 30.47822		13 59 15.72	+17 12 04.1	18.5	N	566

C/2001 C1	2000 04 30.48905	13 59 15.35	+17 12 03.1	18.4	N	566
C/2001 C1	2001 03 29.45391	14 24 56.37	−13 54 51.3	18.0	N	608
C/2001 C1	2001 03 29.46402	14 24 55.98	−13 54 53.2	17.8	N	608
C/2001 C1	2001 03 30.61868	14 24 10.85	−13 58 42.8	17.8	N	608
C/2001 C1	2001 03 30.62918	14 24 10.44	−13 58 45.1	18.1	N	608
C/2001 C1	2001 03 30.64014	14 24 10.00	−13 58 46.8	17.6	N	608
C/2001 C1	2001 04 27.45890	14 03 12.64	−15 22 50.7	16.5	N	608
C/2001 C1	2001 04 27.46919	14 03 12.13	−15 22 52.6	17.3	N	608
C/2001 C1	2001 04 27.47995	14 03 11.59	−15 22 55.2	17.2	N	608
C/2001 C1	2001 06 13.26435	13 31 22.25	−17 33 00.3			608
C/2001 C1	2001 06 13.27512	13 31 22.00	−17 33 03.2	17.4	N	608
C/2001 C1	2001 06 13.28595	13 31 21.69	−17 33 05.5			608
C/2001 C1	2001 06 13.31964	13 31 20.71	−17 33 11.5	17.9	N	608
C/2001 C1	2001 06 13.33052	13 31 20.42	−17 33 12.9	17.8	N	608

P/2001 F1 (NEAT)

P/2001 F1	2001 03 26.56053	13 24 39.54	+17 41 22.2	18.5	N	608
P/2001 F1	2001 03 26.57139	13 24 39.16	+17 41 24.9	18.0	N	608
P/2001 F1	2001 03 26.58192	13 24 38.88	+17 41 26.7	18.4	N	608
P/2001 F1	2001 03 29.63311	13 23 07.70	+17 51 29.3	18.3	N	608
P/2001 F1	2001 03 29.64422	13 23 07.30	+17 51 31.4	18.2	N	608
P/2001 F1	2001 04 22.31148	13 10 48.67	+18 27 56.4	18.4	N	608
P/2001 F1	2001 04 22.32231	13 10 48.36	+18 27 56.0	18.5	N	608
P/2001 F1	2001 06 14.17363	13 00 05.77	+15 09 16.3	18.6	N	644
P/2001 F1	2001 06 14.18428	13 00 05.85	+15 09 12.3	18.3	N	644
P/2001 F1	2001 06 14.20221	13 00 05.96	+15 09 05.0	18.7	N	644

C/2001 X1 (LINEAR)

C/2001 X1	2001 12 26.57941	11 56 28.35	−16 42 27.6	17.1	N	608
C/2001 X1	2001 12 26.58983	11 56 27.02	−16 42 56.6	16.9	N	608
C/2001 X1	2001 12 26.60029	11 56 25.68	−16 43 25.6	16.8	N	608

C/2002 A1 (LINEAR)

C/2002 A1	2002 01 06.30594	07 08 18.31	+29 40 09.0	19.3	N	644
C/2002 A1	2002 01 06.32706	07 08 17.64	+29 40 11.9			644
C/2002 A1	2002 01 06.36297	07 08 16.61	+29 40 18.5	18.8	N	644
C/2002 A1	2002 02 04.16272	06 55 52.37	+30 42 46.3	19.5	N	644
C/2002 A1	2002 02 04.16501	06 55 52.31	+30 42 47.3	19.4	N	644
C/2002 A1	2002 02 04.18632	06 55 51.87	+30 42 49.0	19.0	N	644
C/2002 A1	2002 02 04.20898	06 55 51.44	+30 42 50.7	19.3	N	644
C/2002 A1	2003 01 19.40936	10 47 04.04	+24 07 48.8	19.7	N	644
C/2002 A1	2003 01 19.43056	10 47 03.68	+24 07 53.3	19.8	N	644
C/2002 A1	2003 01 19.45207	10 47 03.41	+24 07 57.9	19.9	N	644

C/2002 J4 (NEAT)

C/2002 J4	2002 06 25.34948	15 25 50.79	−01 57 46.7	18.9	N	608
C/2002 J4	2002 06 25.35994	15 25 50.54	−01 57 50.2	19.1	N	608
C/2002 J4	2002 06 25.37051	15 25 50.20	−01 57 52.9	18.8	N	608
C/2002 J4	2002 07 23.39218	15 17 56.80	−04 41 39.7		K	608
C/2002 J4	2002 07 23.42600	15 17 56.63	−04 41 52.6		K	608

C/2002 K1 (NEAT)

C/2002 K1	2002 05 17.40483	19 55 39.16	−24 14 28.8	19.1	N	644
C/2002 K1	2002 05 17.41539	19 55 38.52	−24 14 19.8	19.0	N	644
C/2002 K1	2002 05 17.42542	19 55 37.87	−24 14 11.5	18.4	N	644
C/2002 K1	2002 06 03.42167	19 34 02.65	−19 51 16.5	18.0	N	644
C/2002 K1	2002 06 03.43225	19 34 01.67	−19 51 05.9		I	644
C/2002 K1	2002 06 06.42343	19 29 22.56	−19 00 07.6	19.0	N	608
C/2002 K1	2002 06 06.43385	19 29 21.54	−18 59 56.7	18.8	N	608
C/2002 K1	2002 06 11.40326	19 21 08.89	−17 32 25.4	18.8	N	644
C/2002 K1	2002 06 11.41405	19 21 07.76	−17 32 13.7	18.0	N	644
C/2002 K1	2002 08 22.15340	17 35 35.78	+00 58 06.2	19.3	N	644
C/2002 K1	2002 08 22.17412	17 35 35.01	+00 58 17.3	19.0	N	644

C/2002 K2 (LINEAR)

C/2002 K2	2001 06 14.32944	19 59 40.76	−17 26 42.4	18.5	N	644
C/2002 K2	2001 06 14.34149	19 59 40.04	−17 26 40.5	18.6	N	644

C/2002 K4 (NEAT)

C/2002 K4	2002 05 29.47581	21 45 08.27	+00 27 41.8	17.7	N	608
C/2002 K4	2002 05 29.48675	21 45 07.80	+00 27 56.1	18.6	N	608
C/2002 K4	2002 06 21.42288	21 18 11.32	+09 43 22.3	19.0	N	644
C/2002 K4	2002 06 21.43326	21 18 10.29	+09 43 38.2	18.5	N	644

C/2002 L9 (NEAT)

C/2002 L9	2002 06 17.41101	20 01 36.48	−28 06 09.8	18.4	N	644
C/2002 L9	2002 06 17.42213	20 01 36.26	−28 06 12.8	18.3	N	644
C/2002 L9	2002 06 17.43314	20 01 35.97	−28 06 16.2	18.5	N	644
C/2002 L9	2002 06 24.38916	19 59 07.14	−28 41 06.7	18.4	N	644
C/2002 L9	2002 06 24.39931	19 59 06.94	−28 41 09.8	17.7	N	644
C/2002 L9	2002 07 01.29691	19 56 22.58	−29 15 51.5	18.0	N	644
C/2002 L9	2002 07 01.32885	19 56 21.76	−29 16 01.3	18.2	N	644
C/2002 L9	2002 07 01.36767	19 56 20.78	−29 16 12.9	18.1	N	644
C/2002 L9	2002 07 12.27789	19 51 34.68	−30 10 24.5	17.7	N	644
C/2002 L9	2002 07 12.41498	19 51 30.91	−30 11 04.7	18.0	N	644
C/2002 L9	2002 07 15.28373	19 50 12.08	−30 25 00.2	18.0	N	644
C/2002 L9	2002 07 15.30457	19 50 11.49	−30 25 05.9	17.7	N	644

C/2003 G1 (LINEAR)

C/2003 G1	2003 05 29.58495	17 23 15.94	+06 14 36.8	16.1	N	608
C/2003 G1	2003 05 29.59579	17 23 15.53	+06 14 43.2	16.1	N	608
C/2003 G1	2003 07 28.32117	16 51 38.18	+12 12 20.7	16.3	N	608
C/2003 G1	2003 07 28.33166	16 51 37.99	+12 12 22.2	16.6	N	608
C/2003 G1	2003 07 28.34259	16 51 37.82	+12 12 23.2	16.2	N	608
C/2003 G1	2003 08 08.27819	16 49 31.77	+12 27 51.4	16.6	N	608
C/2003 G1	2003 08 08.28888	16 49 31.69	+12 27 51.7	16.4	N	608
C/2003 G1	2003 08 08.29944	16 49 31.60	+12 27 52.3	16.5	N	608

C/2003 J1 (NEAT)

C/2003 J1	2003 05 14.51433	21 00 43.01	−15 17 33.3	18.3	N	608
C/2003 J1	2003 05 14.52510	21 00 42.95	−15 17 37.9	18.0	N	608
C/2003 J1	2003 05 15.53473	21 00 39.51	−15 25 05.1	17.8	N	608
C/2003 J1	2003 05 15.54569	21 00 39.45	−15 25 11.2			608
C/2003 J1	2003 05 15.55616	21 00 39.42	−15 25 15.3	17.8	N	608

C/2006 S3 (LONEOS)

C/2006 S3	2015 04 26.51051	11 07 30.70	−05 51 25.6	16.0	T	349
C/2006 S3	2015 04 26.52512	11 07 30.40	−05 51 23.4			349
C/2006 S3	2015 05 10.52806	11 02 25.11	−05 09 28.4	16.2	T	D95
C/2006 S3	2015 05 10.53667	11 02 24.93	−05 09 28.6			D95

C/2008 S3 (Boattini)

C/2008 S3	2015 07 17.00313	20 14 58.66	−01 37 17.6	20.8	T	K 461
C/2008 S3	2015 07 17.01239	20 14 58.37	−01 37 18.5	20.7	T	K 461

C/2009 F4 (McNaught)

C/2009 F4	2015 08 20.37251	03 49 27.28	+08 22 30.5	20.1	N	KW96
C/2009 F4	2015 08 20.40331	03 49 27.48	+08 22 23.6	19.8	N	KW96

C/2010 S1 (LINEAR)

C/2010 S1	2015 07 13.62660	18 03 47.83	−23 35 14.0			K D81
C/2010 S1	2015 07 13.63823	18 03 47.15	−23 35 17.5	15.1	T	K D81
C/2010 S1	2015 07 19.90744	17 59 26.52	−23 53 36.2	19.1	N	K 958
C/2010 S1	2015 07 19.91672	17 59 26.28	−23 53 40.3	18.8	N	K 958
C/2010 S1	2015 07 19.92595	17 59 26.07	−23 53 43.4	19.3	N	K 958

C/2010 U3 (Boattini)

C/2010 U3	2015 07 23.05100	03 47 16.56	+41 49 10.2	19.5	T	K 461
C/2010 U3	2015 07 23.05793	03 47 16.64	+41 49 12.1	19.6	T	K 461
C/2010 U3	2015 08 17.04084	03 52 39.80	+43 23 43.1	18.1	N	K I81
C/2010 U3	2015 08 17.04362	03 52 39.77	+43 23 44.2	18.3	N	K I81
C/2010 U3	2015 08 17.04588	03 52 39.80	+43 23 44.7	18.4	N	K I81
C/2010 U3	2015 08 17.20176	03 52 41.02	+43 24 20.3	19.0	N	J22
C/2010 U3	2015 08 17.20594	03 52 41.10	+43 24 21.3	19.0	N	J22
C/2010 U3	2015 08 17.20980	03 52 41.11	+43 24 22.8	19.0	N	J22
C/2010 U3	2015 08 23.96533	03 53 25.79	+43 50 08.5	18.5	N	K C36
C/2010 U3	2015 08 23.97915	03 53 26.06	+43 50 10.3	18.3	N	K C36
C/2010 U3	2015 08 26.02290	03 53 35.70	+43 57 58.9	16.3	N	K I81
C/2010 U3	2015 08 26.02510	03 53 35.67	+43 57 58.7	16.3	N	K I81
C/2010 U3	2015 08 26.02677	03 53 35.66	+43 57 58.7	16.3	N	K I81

C/2011 J2 (LINEAR)

C/2011 J2	2015 06 28.01953	23 47 09.13	+12 02 11.1	17.7	N	K 160
C/2011 J2	2015 06 28.02199	23 47 09.08	+12 02 10.6	18.4	N	K 160
C/2011 J2	2015 06 28.02445	23 47 09.04	+12 02 10.5	17.5	N	K 160
C/2011 J2	2015 06 30.06667	23 46 42.69	+11 55 46.1	17.1	N	K C23
C/2011 J2	2015 06 30.07244	23 46 42.47	+11 55 46.5	17.0	N	K C23
C/2011 J2	2015 06 30.07677	23 46 42.46	+11 55 44.4	17.1	N	K C23
C/2011 J2	2015 07 01.05055	23 46 28.95	+11 52 33.8	17.7	N	K 160
C/2011 J2	2015 07 01.05287	23 46 28.91	+11 52 33.4	17.8	N	K 160
C/2011 J2	2015 07 01.05520	23 46 28.84	+11 52 31.9	18.0	N	K 160
C/2011 J2	2015 07 02.04942	23 46 14.35	+11 49 13.6	18.0	N	K 160
C/2011 J2	2015 07 02.05188	23 46 14.34	+11 49 12.5	18.2	N	K 160
C/2011 J2	2015 07 02.05434	23 46 14.34	+11 49 11.5	18.2	N	K 160
C/2011 J2	2015 07 03.07577	23 45 58.70	+11 45 41.9	18.4	N	K 160
C/2011 J2	2015 07 03.07834	23 45 58.66	+11 45 40.9	18.1	N	K 160
C/2011 J2	2015 07 03.08089	23 45 58.63	+11 45 40.1	17.9	N	K 160
C/2011 J2	2015 07 03.11274	23 45 58.16	+11 45 34.3	17.8	N	9 G40
C/2011 J2	2015 07 03.11879	23 45 58.06	+11 45 32.8	17.9	N	9 G40
C/2011 J2	2015 07 03.12576	23 45 57.92	+11 45 31.4	18.0	N	9 G40
C/2011 J2	2015 07 03.13269	23 45 57.87	+11 45 30.2	17.9	N	9 G40
C/2011 J2	2015 07 03.13965	23 45 57.75	+11 45 29.2	17.9	N	9 G40
C/2011 J2	2015 07 06.08969	23 45 08.62	+11 34 50.2	18.0	N	K 160
C/2011 J2	2015 07 06.09203	23 45 08.53	+11 34 48.7	18.2	N	K 160
C/2011 J2	2015 07 06.09436	23 45 08.46	+11 34 47.5	18.1	N	K 160
C/2011 J2	2015 07 07.05655	23 44 51.26	+11 31 07.2	18.1	N	K 160
C/2011 J2	2015 07 07.05888	23 44 51.19	+11 31 07.7	18.7	N	K 160
C/2011 J2	2015 07 07.06121	23 44 51.13	+11 31 07.3	17.6	N	K 160
C/2011 J2	2015 07 11.06211	23 43 32.48	+11 15 02.4	16.4	N	C35
C/2011 J2	2015 07 11.06566	23 43 32.43	+11 15 03.1	16.4	N	C35
C/2011 J2	2015 07 11.06920	23 43 32.33	+11 15 00.2	16.4	N	C35
C/2011 J2	2015 07 11.07275	23 43 32.28	+11 15 00.6	16.5	N	C35
C/2011 J2	2015 07 11.99720	23 43 12.60	+11 11 03.0	19.0	N	K C47
C/2011 J2	2015 07 12.00015	23 43 12.52	+11 11 02.6	18.7	N	K C47
C/2011 J2	2015 07 12.00311	23 43 12.40	+11 11 01.8	19.0	N	K C47
C/2011 J2	2015 07 12.00532	23 43 12.40	+11 11 00.9	17.3	N	C23
C/2011 J2	2015 07 12.00606	23 43 12.38	+11 11 00.8	18.5	N	K C47
C/2011 J2	2015 07 12.00901	23 43 12.32	+11 10 59.5	19.2	N	K C47
C/2011 J2	2015 07 12.01110	23 43 12.34	+11 10 59.1	17.4	N	C23
C/2011 J2	2015 07 12.01543	23 43 12.22	+11 10 59.2	17.1	N	C23
C/2011 J2	2015 07 13.02253	23 42 50.08	+11 06 36.1	18.2	N	K 958
C/2011 J2	2015 07 13.02719	23 42 49.92	+11 06 35.3	18.2	N	K 160
C/2011 J2	2015 07 13.02951	23 42 49.90	+11 06 34.8	17.9	N	K 160
C/2011 J2	2015 07 13.03098	23 42 49.87	+11 06 34.5	18.3	N	K 958
C/2011 J2	2015 07 13.03183	23 42 49.85	+11 06 34.2	17.8	N	K 160
C/2011 J2	2015 07 13.03981	23 42 49.69	+11 06 32.2	18.1	N	K 958
C/2011 J2	2015 07 14.12951	23 42 24.98	+11 01 41.3	17.7	N	K Z81
C/2011 J2	2015 07 14.14562	23 42 24.58	+11 01 36.7	17.6	N	K Z81
C/2011 J2	2015 07 14.16490	23 42 24.12	+11 01 31.5	17.9	N	K Z81
C/2011 J2	2015 07 15.05848	23 42 03.30	+10 57 27.2	18.1	N	K 958
C/2011 J2	2015 07 15.06730	23 42 03.09	+10 57 25.7	17.9	N	K 958
C/2011 J2	2015 07 15.07612	23 42 02.84	+10 57 21.9	18.1	N	K 958
C/2011 J2	2015 07 18.01166	23 40 50.53	+10 43 28.3	18.4	N	K 160
C/2011 J2	2015 07 18.01399	23 40 50.46	+10 43 27.9	18.7	N	K 160
C/2011 J2	2015 07 18.01631	23 40 50.41	+10 43 27.1	18.4	N	K 160
C/2011 J2	2015 07 19.97997	23 39 58.92	+10 33 41.5	17.5	N	K 160
C/2011 J2	2015 07 19.98459	23 39 58.74	+10 33 40.8	17.4	N	K 160
C/2011 J2	2015 07 20.07396	23 39 56.37	+10 33 12.5	17.7	N	C23
C/2011 J2	2015 07 20.07829	23 39 56.38	+10 33 10.5	16.6	N	C23
C/2011 J2	2015 07 20.07973	23 39 56.22	+10 33 10.2	17.4	N	C23
C/2011 J2	2015 07 20.99149	23 39 31.45	+10 28 30.2	18.7	N	K 160
C/2011 J2	2015 07 20.99380	23 39 31.38	+10 28 29.5	18.7	N	K 160
C/2011 J2	2015 07 20.99612	23 39 31.30	+10 28 28.8	18.4	N	K 160
C/2011 J2	2015 07 24.02991	23 38 05.04	+10 12 21.0	18.5	N	K 958
C/2011 J2	2015 07 24.03902	23 38 04.72	+10 12 18.2	18.5	N	K 958
C/2011 J2	2015 07 24.04754	23 38 04.47	+10 12 15.5	18.5	N	K 958
C/2011 J2	2015 07 25.73692	23 37 14.05	+10 02 53.3	19.0	N	N55
C/2011 J2	2015 07 25.73909	23 37 14.05	+10 02 51.6	18.8	N	N55
C/2011 J2	2015 07 25.74125	23 37 13.88	+10 02 50.6	18.7	N	N55
C/2011 J2	2015 07 25.74341	23 37 13.82	+10 02 51.1	19.1	N	N55
C/2011 J2	2015 07 25.75130	23 37 13.49	+10 02 48.0	18.9	N	N55
C/2011 J2	2015 07 25.75345	23 37 13.51	+10 02 47.2	18.9	N	N55
C/2011 J2	2015 07 25.75561	23 37 13.44	+10 02 46.8	18.9	N	N55
C/2011 J2	2015 07 26.03664	23 37 04.85	+10 01 10.3	17.6	N	K C23
C/2011 J2	2015 07 26.03963	23 37 04.74	+10 01 10.3	17.7	N	K C23
C/2011 J2	2015 07 26.04188	23 37 04.64	+10 01 10.1	17.1	N	K C23
C/2011 J2	2015 08 03.03652	23 32 42.17	+09 12 46.8	17.3	N	K C10
C/2011 J2	2015 08 03.05211	23 32 41.64	+09 12 41.3	17.4	N	K C10
C/2011 J2	2015 08 05.96604	23 30 57.51	+08 53 33.0	19.0	N	K C95

C/2011 J2	2015 08 05.97897	23 30 57.15	+08 53 26.8	17.4	N	K C23
C/2011 J2	2015 08 05.98475	23 30 56.89	+08 53 24.8	17.4	N	K C23
C/2011 J2	2015 08 05.98908	23 30 56.72	+08 53 23.3	17.8	N	K C23
C/2011 J2	2015 08 06.03020	23 30 55.15	+08 53 06.9	17.3	N	K C95
C/2011 J2	2015 08 06.07110	23 30 53.63	+08 52 50.5	17.6	N	K C95
C/2011 J2	2015 08 06.70258	23 30 30.51	+08 48 37.0	17.5	N	Q68
C/2011 J2	2015 08 06.71018	23 30 30.18	+08 48 33.5	17.5	N	Q68
C/2011 J2	2015 08 06.98453	23 30 20.14	+08 46 42.2	18.1	N	B96
C/2011 J2	2015 08 06.98950	23 30 19.99	+08 46 39.1	18.0	N	B96
C/2011 J2	2015 08 06.99448	23 30 19.73	+08 46 37.6	17.1	N	B96
C/2011 J2	2015 08 07.60767	23 29 57.06	+08 42 27.3	17.4	N	Q68
C/2011 J2	2015 08 07.65559	23 29 55.26	+08 42 07.9	17.3	N	Q68
C/2011 J2	2015 08 08.04735	23 29 40.58	+08 39 23.6	18.2	N	K 160
C/2011 J2	2015 08 08.04968	23 29 40.49	+08 39 22.5	18.5	N	K 160
C/2011 J2	2015 08 08.05201	23 29 40.44	+08 39 21.2	18.3	N	K 160
C/2011 J2	2015 08 08.60361	23 29 19.72	+08 35 35.7	17.2	N	Q68
C/2011 J2	2015 08 08.62924	23 29 18.70	+08 35 24.3	17.5	N	Q68
C/2011 J2	2015 08 10.58109	23 28 04.29	+08 21 42.0	17.6	N	Q68
C/2011 J2	2015 08 10.61982	23 28 02.77	+08 21 24.7	17.4	N	Q68
C/2011 J2	2015 08 12.00394	23 27 09.06	+08 11 26.9	18.3	N	K 160
C/2011 J2	2015 08 12.00630	23 27 08.96	+08 11 26.1	18.5	N	K 160
C/2011 J2	2015 08 12.00865	23 27 08.83	+08 11 25.1	18.2	N	K 160
C/2011 J2	2015 08 12.96220	23 26 31.30	+08 04 28.2	17.1	N	K C23
C/2011 J2	2015 08 12.97086	23 26 30.92	+08 04 25.2	17.7	N	K C23
C/2011 J2	2015 08 12.99628	23 26 30.01	+08 04 13.6	17.5	N	K 160
C/2011 J2	2015 08 12.99862	23 26 29.90	+08 04 12.5	18.2	N	K 160
C/2011 J2	2015 08 13.00096	23 26 29.82	+08 04 11.5	18.8	N	K 160
C/2011 J2	2015 08 13.36279	23 26 15.44	+08 01 34.3	16.5	T	G45
C/2011 J2	2015 08 13.36897	23 26 15.16	+08 01 31.8	16.4	T	G45
C/2011 J2	2015 08 13.37668	23 26 14.85	+08 01 28.6	16.5	T	G45
C/2011 J2	2015 08 13.38348	23 26 14.59	+08 01 24.9	16.6	T	G45
C/2011 J2	2015 08 16.94080	23 23 51.11	+07 34 44.6	17.1	T	K K41
C/2011 J2	2015 08 16.94334	23 23 51.02	+07 34 40.5	18.3	T	K K41
C/2011 J2	2015 08 17.92351	23 23 10.82	+07 27 10.9	17.9	N	K A77
C/2011 J2	2015 08 17.93917	23 23 10.18	+07 27 04.5	18.2	N	K A77
C/2011 J2	2015 08 17.95317	23 23 09.57	+07 26 58.0	18.2	N	K A77
C/2011 J2	2015 08 19.67140	23 21 58.22	+07 13 38.8	17.6	N	Q68
C/2011 J2	2015 08 19.69623	23 21 57.15	+07 13 27.2	17.6	N	Q68
C/2011 J2	2015 08 19.96029	23 21 46.20	+07 11 20.6	17.2	N	C36
C/2011 J2	2015 08 19.96152	23 21 46.12	+07 11 20.7	16.9	N	C36
C/2011 J2	2015 08 19.96273	23 21 46.06	+07 11 19.9	17.0	N	C36
C/2011 J2	2015 08 19.96396	23 21 45.99	+07 11 18.9	17.6	N	C36
C/2011 J2	2015 08 19.96519	23 21 46.03	+07 11 18.1	17.5	N	C36
C/2011 J2	2015 08 19.96529	23 21 45.99	+07 11 18.8	16.9	N	C23
C/2011 J2	2015 08 19.96640	23 21 45.92	+07 11 17.9	17.4	N	C36
C/2011 J2	2015 08 19.96763	23 21 45.84	+07 11 18.0	17.4	N	C36
C/2011 J2	2015 08 19.96885	23 21 45.80	+07 11 17.1	17.6	N	C36
C/2011 J2	2015 08 19.97008	23 21 45.75	+07 11 16.5	17.4	N	C36
C/2011 J2	2015 08 19.97107	23 21 45.77	+07 11 15.3	16.9	N	C23
C/2011 J2	2015 08 19.97684	23 21 45.60	+07 11 12.9	17.4	N	C23
C/2011 J2	2015 08 20.25049	23 21 34.14	+07 09 07.0	16.1	T	703
C/2011 J2	2015 08 20.25853	23 21 33.75	+07 09 04.0	16.0	T	703
C/2011 J2	2015 08 20.26657	23 21 33.51	+07 08 58.8	15.9	T	703
C/2011 J2	2015 08 20.27460	23 21 32.83	+07 08 51.8	16.0	T	703
C/2011 J2	2015 08 20.85839	23 21 08.51	+07 04 16.3	17.7	T	K K41
C/2011 J2	2015 08 20.93309	23 21 05.45	+07 03 41.8	17.5	T	K K41
C/2011 J2	2015 08 23.10044	23 19 33.58	+06 46 21.8	18.0	N	K B82
C/2011 J2	2015 08 23.10756	23 19 33.28	+06 46 18.6	18.0	N	K B82
C/2011 J2	2015 08 23.11516	23 19 32.97	+06 46 14.7	18.0	N	K B82
C/2011 J2	2015 08 23.67553	23 19 09.06	+06 41 42.6	16.8	T	D29
C/2011 J2	2015 08 23.69053	23 19 08.47	+06 41 35.7	16.2	T	D29
C/2011 J2	2015 08 23.70552	23 19 07.80	+06 41 29.7	16.6	T	D29
C/2011 J2	2015 08 25.98699	23 17 29.94	+06 22 50.2	17.5	N	K K61
C/2011 J2	2015 08 25.98818	23 17 29.85	+06 22 50.0	17.5	N	K K61
C/2011 J2	2015 08 25.98955	23 17 29.85	+06 22 49.0	17.5	N	K K61
C/2011 J2	2015 08 26.92301	23 16 49.52	+06 15 06.8	18.1	N	K C47
C/2011 J2	2015 08 26.92578	23 16 49.41	+06 15 05.2	19.3	N	K C47
C/2011 J2	2015 08 26.92873	23 16 49.28	+06 15 03.6	19.0	N	K C47
C/2011 J2	2015 08 26.93168	23 16 49.18	+06 15 02.1	18.7	N	K C47
C/2011 J2	2015 08 26.93408	23 16 49.08	+06 15 00.8	18.7	N	K C47
C/2011 J2	2015 08 26.93667	23 16 48.94	+06 14 59.4	18.8	N	K C47

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

C/2011 KP$_{36}$	2015 06 12.18287	21 31 39.49	−00 40 15.8	16.8	N	9 G40
C/2011 KP$_{36}$	2015 06 12.19711	21 31 39.54	−00 40 14.9	16.7	N	9 G40
C/2011 KP$_{36}$	2015 06 12.33811	21 31 40.28	−00 40 06.6	13.8	T	K H06
C/2011 KP$_{36}$	2015 06 12.33958	21 31 40.33	−00 40 05.8	16.2	N	K H06
C/2011 KP$_{36}$	2015 06 19.98529	21 32 00.78	−00 34 31.3	17.1	N	583
C/2011 KP$_{36}$	2015 06 19.98580	21 32 00.78	−00 34 31.2	17.3	N	583
C/2011 KP$_{36}$	2015 06 19.98649	21 32 00.80	−00 34 31.2	17.3	N	583
C/2011 KP$_{36}$	2015 06 19.98719	21 32 00.81	−00 34 31.1	17.4	N	583
C/2011 KP$_{36}$	2015 06 19.98788	21 32 00.80	−00 34 31.0	17.2	N	583
C/2011 KP$_{36}$	2015 06 19.98858	21 32 00.79	−00 34 30.9	17.2	N	583
C/2011 KP$_{36}$	2015 06 19.98927	21 32 00.78	−00 34 31.0	17.1	N	583
C/2011 KP$_{36}$	2015 06 19.98997	21 32 00.78	−00 34 31.0	17.2	N	583
C/2011 KP$_{36}$	2015 06 20.00941	21 32 00.78	−00 34 30.3	16.2	N	583
C/2011 KP$_{36}$	2015 06 20.01010	21 32 00.79	−00 34 30.6	17.6	N	583
C/2011 KP$_{36}$	2015 06 20.01080	21 32 00.79	−00 34 30.3	17.5	N	583
C/2011 KP$_{36}$	2015 06 20.01149	21 32 00.78	−00 34 30.4	17.2	N	583
C/2011 KP$_{36}$	2015 06 20.01219	21 32 00.77	−00 34 30.2	16.4	N	583
C/2011 KP$_{36}$	2015 06 20.01288	21 32 00.80	−00 34 30.4	17.4	N	583
C/2011 KP$_{36}$	2015 06 20.01358	21 32 00.76	−00 34 30.6	16.5	N	583
C/2011 KP$_{36}$	2015 06 20.01427	21 32 00.77	−00 34 30.1	17.4	N	583
C/2011 KP$_{36}$	2015 06 23.69487	21 31 57.94	−00 33 23.3	15.1	T	349
C/2011 KP$_{36}$	2015 06 23.72340	21 31 57.86	−00 33 23.1			349
C/2011 KP$_{36}$	2015 06 24.02368	21 31 57.25	−00 33 21.0	15.7	N	583
C/2011 KP$_{36}$	2015 06 24.02405	21 31 57.26	−00 33 20.7	15.7	N	583
C/2011 KP$_{36}$	2015 06 24.02442	21 31 57.26	−00 33 20.6	15.8	N	583
C/2011 KP$_{36}$	2015 06 24.02479	21 31 57.25	−00 33 20.5	15.8	N	583
C/2011 KP$_{36}$	2015 06 24.02716	21 31 57.21	−00 33 21.4	15.5	N	583
C/2011 KP$_{36}$	2015 06 24.02753	21 31 57.20	−00 33 21.2	15.6	N	583
C/2011 KP$_{36}$	2015 06 24.02791	21 31 57.21	−00 33 21.7	15.7	N	583
C/2011 KP$_{36}$	2015 06 24.02828	21 31 57.27	−00 33 21.4	15.8	N	583
C/2011 KP$_{36}$	2015 06 27.98335	21 31 44.56	−00 33 26.6	17.2	N	K 160
C/2011 KP$_{36}$	2015 06 27.98582	21 31 44.54	−00 33 26.9	16.7	N	K 160
C/2011 KP$_{36}$	2015 06 30.05713	21 31 34.24	−00 34 00.1	16.3	N	C23

C/2011 KP_{36}	2015 06 30.05938	21 31 34.29	−00 34 00.6	15.7	N	C23
C/2011 KP_{36}	2015 06 30.06163	21 31 34.20	−00 34 00.3	16.2	N	C23
C/2011 KP_{36}	2015 06 30.99870	21 31 28.77	−00 34 21.7	16.4	N	B96
C/2011 KP_{36}	2015 07 01.00203	21 31 28.72	−00 34 21.6	16.6	N	B96
C/2011 KP_{36}	2015 07 01.00535	21 31 28.74	−00 34 21.9	16.5	N	B96
C/2011 KP_{36}	2015 07 01.00866	21 31 28.73	−00 34 21.7	16.5	N	B96
C/2011 KP_{36}	2015 07 01.01198	21 31 28.68	−00 34 21.4	16.5	N	B96
C/2011 KP_{36}	2015 07 01.02041	21 31 28.65	−00 34 22.7	16.4	N	K 160
C/2011 KP_{36}	2015 07 01.02274	21 31 28.64	−00 34 22.7	16.3	N	K 160
C/2011 KP_{36}	2015 07 01.02507	21 31 28.60	−00 34 23.0	16.4	N	K 160
C/2011 KP_{36}	2015 07 01.98390	21 31 22.52	−00 34 50.1	16.9	N	K 160
C/2011 KP_{36}	2015 07 01.98623	21 31 22.50	−00 34 50.1	17.0	N	K 160
C/2011 KP_{36}	2015 07 01.98857	21 31 22.48	−00 34 50.2	17.0	N	K 160
C/2011 KP_{36}	2015 07 02.99112	21 31 15.59	−00 35 24.1	16.8	N	K 160
C/2011 KP_{36}	2015 07 02.99347	21 31 15.55	−00 35 23.7	16.8	N	K 160
C/2011 KP_{36}	2015 07 02.99581	21 31 15.49	−00 35 24.5	16.6	N	K 160
C/2011 KP_{36}	2015 07 06.01487	21 30 51.37	−00 37 35.1	16.6	N	K 160
C/2011 KP_{36}	2015 07 06.01717	21 30 51.34	−00 37 35.2	17.0	N	K 160
C/2011 KP_{36}	2015 07 06.01948	21 30 51.31	−00 37 35.1	16.5	N	K 160
C/2011 KP_{36}	2015 07 07.00562	21 30 42.37	−00 38 28.0	16.7	N	K 160
C/2011 KP_{36}	2015 07 07.00688	21 30 42.41	−00 38 28.3	16.0	N	J38
C/2011 KP_{36}	2015 07 07.00797	21 30 42.35	−00 38 27.9	17.1	N	K 160
C/2011 KP_{36}	2015 07 07.00866	21 30 42.40	−00 38 28.2	15.9	N	J38
C/2011 KP_{36}	2015 07 07.01034	21 30 42.32	−00 38 28.2	17.1	N	K 160
C/2011 KP_{36}	2015 07 07.01044	21 30 42.36	−00 38 27.8	15.9	N	J38
C/2011 KP_{36}	2015 07 07.03371	21 30 42.07	−00 38 30.2	16.0	N	C23
C/2011 KP_{36}	2015 07 07.03596	21 30 42.08	−00 38 29.7	16.2	N	C23
C/2011 KP_{36}	2015 07 07.03821	21 30 42.05	−00 38 29.7	16.2	N	C23
C/2011 KP_{36}	2015 07 08.35815	21 30 29.16	−00 39 46.8	16.0	N	W96
C/2011 KP_{36}	2015 07 08.39224	21 30 28.80	−00 39 48.9	15.9	N	W96
C/2011 KP_{36}	2015 07 08.99089	21 30 22.84	−00 40 29.1	15.9	N	I72
C/2011 KP_{36}	2015 07 08.99243	21 30 22.83	−00 40 29.3	15.9	N	I72
C/2011 KP_{36}	2015 07 08.99396	21 30 22.82	−00 40 29.4	15.9	N	I72
C/2011 KP_{36}	2015 07 09.99777	21 30 12.11	−00 41 38.5	16.5	N	B96
C/2011 KP_{36}	2015 07 10.00274	21 30 12.05	−00 41 38.7	16.4	N	B96
C/2011 KP_{36}	2015 07 10.00773	21 30 12.00	−00 41 39.1	16.3	N	B96
C/2011 KP_{36}	2015 07 10.57835	21 30 05.76	−00 42 20.9	14.4	T	D95
C/2011 KP_{36}	2015 07 10.58805	21 30 05.65	−00 42 21.7			D95
C/2011 KP_{36}	2015 07 10.59236	21 30 05.59	−00 42 22.0			D95
C/2011 KP_{36}	2015 07 10.96546	21 30 01.37	−00 42 50.4	16.1	N	K14
C/2011 KP_{36}	2015 07 10.96595	21 30 01.39	−00 42 50.3	15.3	N	C35
C/2011 KP_{36}	2015 07 10.97659	21 30 01.27	−00 42 51.3	15.2	N	C35
C/2011 KP_{36}	2015 07 10.98604	21 30 01.15	−00 42 52.0	17.0	N	K 160
C/2011 KP_{36}	2015 07 10.98670	21 30 01.14	−00 42 51.3	16.0	N	K14
C/2011 KP_{36}	2015 07 10.98730	21 30 01.14	−00 42 51.7	15.2	N	C35
C/2011 KP_{36}	2015 07 10.98837	21 30 01.12	−00 42 52.2	17.0	N	K 160
C/2011 KP_{36}	2015 07 10.99042	21 30 01.12	−00 42 52.1	17.0	N	K 160
C/2011 KP_{36}	2015 07 10.99807	21 30 01.02	−00 42 52.9	15.3	N	C35
C/2011 KP_{36}	2015 07 11.06948	21 30 00.16	−00 42 57.9	15.7	N	J01
C/2011 KP_{36}	2015 07 11.08444	21 29 59.98	−00 42 59.0	15.7	N	J01
C/2011 KP_{36}	2015 07 11.09944	21 29 59.82	−00 43 00.2	15.7	N	J01
C/2011 KP_{36}	2015 07 11.97030	21 29 49.73	−00 44 09.5	16.7	N	K 160
C/2011 KP_{36}	2015 07 11.97263	21 29 49.70	−00 44 09.7	16.7	N	K 160
C/2011 KP_{36}	2015 07 11.97496	21 29 49.67	−00 44 09.9	16.5	N	K 160
C/2011 KP_{36}	2015 07 11.99905	21 29 49.37	−00 44 12.3	16.0	N	C23
C/2011 KP_{36}	2015 07 12.00130	21 29 49.33	−00 44 12.4	16.1	N	C23
C/2011 KP_{36}	2015 07 12.00181	21 29 49.37	−00 44 12.2	16.0	N	B74
C/2011 KP_{36}	2015 07 12.00355	21 29 49.32	−00 44 12.5	16.0	N	C23
C/2011 KP_{36}	2015 07 12.01083	21 29 49.26	−00 44 12.7	16.0	N	B74
C/2011 KP_{36}	2015 07 12.01419	21 29 49.21	−00 44 13.2	16.6	N	K 595
C/2011 KP_{36}	2015 07 12.02274	21 29 49.06	−00 44 14.1	14.8	T	K 104
C/2011 KP_{36}	2015 07 12.02361	21 29 49.06	−00 44 13.5	15.9	N	939
C/2011 KP_{36}	2015 07 12.02439	21 29 49.09	−00 44 13.7	16.0	N	B74
C/2011 KP_{36}	2015 07 12.02613	21 29 49.06	−00 44 14.2	16.5	N	K 595
C/2011 KP_{36}	2015 07 12.03873	21 29 48.86	−00 44 14.8	15.8	N	939
C/2011 KP_{36}	2015 07 12.04880	21 29 48.74	−00 44 15.7	15.8	N	939
C/2011 KP_{36}	2015 07 12.05337	21 29 48.65	−00 44 16.7	14.6	T	K 104
C/2011 KP_{36}	2015 07 12.96306	21 29 37.74	−00 45 32.9	16.6	N	K 160
C/2011 KP_{36}	2015 07 12.96538	21 29 37.71	−00 45 33.2	17.0	N	K 160
C/2011 KP_{36}	2015 07 12.96769	21 29 37.67	−00 45 33.5	16.5	N	K 160
C/2011 KP_{36}	2015 07 14.99425	21 29 11.69	−00 48 39.1	16.3	N	958
C/2011 KP_{36}	2015 07 15.00674	21 29 11.54	−00 48 40.9	16.4	N	958
C/2011 KP_{36}	2015 07 15.01997	21 29 11.38	−00 48 42.4	16.4	N	958
C/2011 KP_{36}	2015 07 17.04185	21 28 43.61	−00 52 08.7	16.1	N	461
C/2011 KP_{36}	2015 07 17.04877	21 28 43.51	−00 52 09.5	16.1	N	461
C/2011 KP_{36}	2015 07 17.05448	21 28 43.42	−00 52 09.9	15.8	N	939
C/2011 KP_{36}	2015 07 17.05455	21 28 43.42	−00 52 10.1	16.0	N	461
C/2011 KP_{36}	2015 07 17.05917	21 28 43.35	−00 52 10.6	16.0	N	461
C/2011 KP_{36}	2015 07 17.06456	21 28 43.27	−00 52 11.1	15.8	N	939
C/2011 KP_{36}	2015 07 17.07463	21 28 43.12	−00 52 12.2	15.8	N	939
C/2011 KP_{36}	2015 07 17.97909	21 28 30.21	−00 53 52.0	16.5	N	K 160
C/2011 KP_{36}	2015 07 17.98143	21 28 30.18	−00 53 52.2	16.5	N	K 160
C/2011 KP_{36}	2015 07 17.98378	21 28 30.14	−00 53 52.5	16.5	N	K 160
C/2011 KP_{36}	2015 07 18.05605	21 28 28.96	−00 54 01.0	16.1	N	958
C/2011 KP_{36}	2015 07 18.06487	21 28 28.87	−00 54 01.6	16.3	N	958
C/2011 KP_{36}	2015 07 18.07295	21 28 28.76	−00 54 02.4	16.4	N	958
C/2011 KP_{36}	2015 07 18.95495	21 28 15.81	−00 55 43.7	16.1	N	461
C/2011 KP_{36}	2015 07 18.95727	21 28 15.77	−00 55 44.0	16.1	N	461
C/2011 KP_{36}	2015 07 18.95958	21 28 15.73	−00 55 44.2	16.1	N	461
C/2011 KP_{36}	2015 07 18.96190	21 28 15.70	−00 55 44.5	16.1	N	461
C/2011 KP_{36}	2015 07 18.96420	21 28 15.66	−00 55 44.8	16.1	N	461
C/2011 KP_{36}	2015 07 18.96652	21 28 15.63	−00 55 45.0	16.1	N	461
C/2011 KP_{36}	2015 07 18.97115	21 28 15.55	−00 55 45.6	16.0	N	461
C/2011 KP_{36}	2015 07 18.97346	21 28 15.52	−00 55 45.9	16.0	N	461
C/2011 KP_{36}	2015 07 19.05686	21 28 14.25	−00 55 56.0	16.0	N	K K22
C/2011 KP_{36}	2015 07 19.09669	21 28 13.63	−00 56 00.6	16.0	N	K K22
C/2011 KP_{36}	2015 07 19.19157	21 28 12.28	−00 56 12.0	15.7	N	750
C/2011 KP_{36}	2015 07 19.20428	21 28 12.12	−00 56 14.3	16.0	N	750
C/2011 KP_{36}	2015 07 19.53999	21 28 07.04	−00 56 50.9	15.8	N	30D90
C/2011 KP_{36}	2015 07 19.54450	21 28 06.97	−00 56 51.4	15.8	N	30D90
C/2011 KP_{36}	2015 07 19.55791	21 28 06.76	−00 56 53.1	15.8	N	30D90
C/2011 KP_{36}	2015 07 19.94741	21 28 00.79	−00 57 42.7	16.2	N	K 160
C/2011 KP_{36}	2015 07 19.94974	21 28 00.75	−00 57 43.0	16.2	N	K 160
C/2011 KP_{36}	2015 07 19.95208	21 28 00.72	−00 57 43.1	16.1	N	K 160
C/2011 KP_{36}	2015 07 20.03051	21 27 59.48	−00 57 53.0	16.0	N	C23
C/2011 KP_{36}	2015 07 20.03275	21 27 59.45	−00 57 53.3	16.1	N	C23

C/2011 KP_{36}	2015 07 20.03500	21 27 59.39	−00 57 53.6	16.0	N	C23
C/2011 KP_{36}	2015 07 20.39254	21 27 53.85	−00 58 37.3	16.0	N	H45
C/2011 KP_{36}	2015 07 20.39332	21 27 53.82	−00 58 37.4	16.1	N	H45
C/2011 KP_{36}	2015 07 20.39594	21 27 53.78	−00 58 37.6	16.1	N	H45
C/2011 KP_{36}	2015 07 20.39849	21 27 53.74	−00 58 37.9	16.0	N	H45
C/2011 KP_{36}	2015 07 20.40001	21 27 53.73	−00 58 38.2	16.0	N	H45
C/2011 KP_{36}	2015 07 20.40127	21 27 53.69	−00 58 38.2	16.1	N	H45
C/2011 KP_{36}	2015 07 20.95012	21 27 45.21	−00 59 47.6	16.3	N	K 160
C/2011 KP_{36}	2015 07 20.95241	21 27 45.18	−00 59 47.9	16.3	N	K 160
C/2011 KP_{36}	2015 07 20.95487	21 27 45.13	−00 59 48.3	16.4	N	K 160
C/2011 KP_{36}	2015 07 21.14007	21 27 42.43	−01 00 15.1	14.3	N	750
C/2011 KP_{36}	2015 07 21.15671	21 27 42.08	−01 00 16.1	15.1	N	750
C/2011 KP_{36}	2015 07 23.88468	21 26 57.47	−01 06 20.9	16.0	N	K14
C/2011 KP_{36}	2015 07 23.91141	21 26 57.09	−01 06 25.3	16.0	N	K14
C/2011 KP_{36}	2015 07 23.97517	21 26 55.97	−01 06 34.5	16.1	N	958
C/2011 KP_{36}	2015 07 23.98765	21 26 55.76	−01 06 37.1	16.1	N	958
C/2011 KP_{36}	2015 07 24.00087	21 26 55.53	−01 06 38.7	16.2	N	958
C/2011 KP_{36}	2015 07 24.94559	21 26 39.55	−01 08 54.8	15.6	N	939
C/2011 KP_{36}	2015 07 24.95566	21 26 39.38	−01 08 56.2	15.6	N	939
C/2011 KP_{36}	2015 07 24.96575	21 26 39.20	−01 08 57.7	15.6	N	939
C/2011 KP_{36}	2015 07 25.09253	21 26 36.91	−01 09 16.8	15.5	N	Z73
C/2011 KP_{36}	2015 07 25.10562	21 26 36.72	−01 09 18.4	15.6	N	Z73
C/2011 KP_{36}	2015 07 25.12093	21 26 36.43	−01 09 20.8	15.5	N	Z73
C/2011 KP_{36}	2015 07 25.13406	21 26 36.22	−01 09 22.6	15.7	N	Z73
C/2011 KP_{36}	2015 07 25.72812	21 26 25.96	−01 10 51.2			K 367
C/2011 KP_{36}	2015 07 25.72934	21 26 25.94	−01 10 51.4			K 367
C/2011 KP_{36}	2015 07 25.73137	21 26 25.91	−01 10 51.8	14.4	T	K 367
C/2011 KP_{36}	2015 07 26.00256	21 26 21.26	−01 11 32.9	15.6	N	J38
C/2011 KP_{36}	2015 07 26.00469	21 26 21.22	−01 11 33.2	15.7	N	J38
C/2011 KP_{36}	2015 07 26.01110	21 26 21.11	−01 11 34.2	15.6	N	J38
C/2011 KP_{36}	2015 07 26.01541	21 26 21.02	−01 11 34.6	15.6	N	J36
C/2011 KP_{36}	2015 07 26.01859	21 26 20.96	−01 11 35.2	15.7	N	J36
C/2011 KP_{36}	2015 07 26.02656	21 26 20.85	−01 11 36.8	15.7	N	J36
C/2011 KP_{36}	2015 07 26.08738	21 26 19.71	−01 11 45.9	15.6	N	Z73
C/2011 KP_{36}	2015 07 26.09683	21 26 19.56	−01 11 47.5	15.8	N	Z73
C/2011 KP_{36}	2015 07 26.10725	21 26 19.39	−01 11 48.9	15.6	N	Z73
C/2011 KP_{36}	2015 07 26.11668	21 26 19.21	−01 11 49.9	15.6	N	Z73
C/2011 KP_{36}	2015 07 26.12660	21 26 19.05	−01 11 51.4	15.7	N	Z73
C/2011 KP_{36}	2015 07 26.50757	21 26 12.46	−01 12 47.4	15.6	N	30D90
C/2011 KP_{36}	2015 07 26.51656	21 26 12.30	−01 12 48.9	15.6	N	30D90
C/2011 KP_{36}	2015 07 26.52549	21 26 11.98	−01 12 50.7	15.6	N	30D90
C/2011 KP_{36}	2015 07 26.60320	21 26 10.72	−01 13 05.0	14.8	T	349
C/2011 KP_{36}	2015 07 26.61271	21 26 10.54	−01 13 06.2			349
C/2011 KP_{36}	2015 07 28.43084	21 25 38.082	−01 17 54.49	16.4	T	F51
C/2011 KP_{36}	2015 07 28.43148	21 25 38.065	−01 17 54.55	16.4	T	F51
C/2011 KP_{36}	2015 07 28.44328	21 25 37.839	−01 17 56.55	16.4	T	F51
C/2011 KP_{36}	2015 07 28.44408	21 25 37.825	−01 17 56.64	16.4	T	F51
C/2011 KP_{36}	2015 07 28.45603	21 25 37.605	−01 17 58.63	16.4	T	F51
C/2011 KP_{36}	2015 07 28.45667	21 25 37.590	−01 17 58.69	16.3	T	F51
C/2011 KP_{36}	2015 07 28.46861	21 25 37.364	−01 18 00.66	16.4	T	F51
C/2011 KP_{36}	2015 07 28.46926	21 25 37.348	−01 18 00.78	16.5	T	F51
C/2011 KP_{36}	2015 07 28.69399	21 25 33.21	−01 18 38.3	15.3	T	D29
C/2011 KP_{36}	2015 07 28.70810	21 25 32.97	−01 18 40.6	15.3	T	D29
C/2011 KP_{36}	2015 07 28.72221	21 25 32.71	−01 18 42.7	15.6	T	D29
C/2011 KP_{36}	2015 07 28.97861	21 25 28.10	−01 19 25.4	15.5	N	J36
C/2011 KP_{36}	2015 07 28.98785	21 25 27.93	−01 19 26.9	15.5	N	J36
C/2011 KP_{36}	2015 07 28.99354	21 25 27.83	−01 19 27.9	15.5	N	J36
C/2011 KP_{36}	2015 07 29.15384	21 25 24.88	−01 19 52.6	14.6	N	I66
C/2011 KP_{36}	2015 07 29.15531	21 25 24.84	−01 19 52.7	14.6	N	I66
C/2011 KP_{36}	2015 07 29.15677	21 25 24.82	−01 19 53.0	14.7	N	I66
C/2011 KP_{36}	2015 08 04.90738	21 23 16.18	−01 40 19.4	15.6	N	C86
C/2011 KP_{36}	2015 08 04.90767	21 23 16.17	−01 40 19.6	15.6	N	I72
C/2011 KP_{36}	2015 08 04.91069	21 23 16.11	−01 40 20.3	15.6	N	I72
C/2011 KP_{36}	2015 08 04.91373	21 23 16.05	−01 40 20.8	15.6	N	I72
C/2011 KP_{36}	2015 08 04.91378	21 23 16.03	−01 40 20.3	15.6	N	C86
C/2011 KP_{36}	2015 08 04.91436	21 23 16.03	−01 40 20.9	15.6	N	939
C/2011 KP_{36}	2015 08 04.91699	21 23 15.93	−01 40 21.3	15.5	N	C86
C/2011 KP_{36}	2015 08 04.92375	21 23 15.83	−01 40 22.6	15.6	N	939
C/2011 KP_{36}	2015 08 04.93244	21 23 15.65	−01 40 24.3	15.6	N	939
C/2011 KP_{36}	2015 08 04.93678	21 23 15.55	−01 40 26.0	15.7	N	C23
C/2011 KP_{36}	2015 08 04.93903	21 23 15.44	−01 40 26.3	16.1	N	C23
C/2011 KP_{36}	2015 08 04.94127	21 23 15.50	−01 40 27.1	15.7	N	C23
C/2011 KP_{36}	2015 08 05.87709	21 22 56.99	−01 43 31.7	16.4	N	A71
C/2011 KP_{36}	2015 08 05.88416	21 22 56.85	−01 43 33.1	16.4	N	A71
C/2011 KP_{36}	2015 08 05.89513	21 22 56.62	−01 43 35.3	16.4	N	A71
C/2011 KP_{36}	2015 08 05.90216	21 22 56.48	−01 43 36.7	16.5	N	A71
C/2011 KP_{36}	2015 08 06.02600	21 22 53.97	−01 44 01.3	16.3	N	K A77
C/2011 KP_{36}	2015 08 06.03570	21 22 53.77	−01 44 03.2	16.2	N	K A77
C/2011 KP_{36}	2015 08 06.04496	21 22 53.58	−01 44 05.0	16.2	N	K A77
C/2011 KP_{36}	2015 08 06.05494	21 22 53.38	−01 44 07.0	16.2	N	K A77
C/2011 KP_{36}	2015 08 06.55254	21 22 43.54	−01 45 44.9	16.0	N	Q68
C/2011 KP_{36}	2015 08 06.63133	21 22 41.92	−01 46 00.9	15.9	N	Q68
C/2011 KP_{36}	2015 08 06.91541	21 22 36.32	−01 47 02.1	15.6	N	C86
C/2011 KP_{36}	2015 08 06.91911	21 22 36.25	−01 47 01.8	16.3	N	K 160
C/2011 KP_{36}	2015 08 06.91953	21 22 36.20	−01 47 02.3	15.7	N	C86
C/2011 KP_{36}	2015 08 06.92157	21 22 36.20	−01 47 02.3	16.3	N	K 160
C/2011 KP_{36}	2015 08 06.92403	21 22 36.16	−01 47 03.1			K 160
C/2011 KP_{36}	2015 08 06.93024	21 22 36.04	−01 47 04.7	15.8	N	C86
C/2011 KP_{36}	2015 08 06.94365	21 22 35.73	−01 47 06.5	16.2	N	B96
C/2011 KP_{36}	2015 08 06.94862	21 22 35.63	−01 47 08.1	16.0	N	B96
C/2011 KP_{36}	2015 08 06.95360	21 22 35.52	−01 47 09.1	16.4	N	B96
C/2011 KP_{36}	2015 08 06.98018	21 22 34.98	−01 47 14.4	16.8	N	K 160
C/2011 KP_{36}	2015 08 06.98266	21 22 34.93	−01 47 14.9	16.8	N	K 160
C/2011 KP_{36}	2015 08 06.98514	21 22 34.89	−01 47 15.6	16.7	N	K 160
C/2011 KP_{36}	2015 08 07.46884	21 22 25.23	−01 48 52.7	15.9	N	Q68
C/2011 KP_{36}	2015 08 07.52077	21 22 24.22	−01 49 03.0	16.0	N	Q68
C/2011 KP_{36}	2015 08 07.66785	21 22 21.17	−01 49 35.5			K D81
C/2011 KP_{36}	2015 08 07.67206	21 22 21.10	−01 49 36.2			K D81
C/2011 KP_{36}	2015 08 07.67626	21 22 21.00	−01 49 37.6	14.9	T	K D81
C/2011 KP_{36}	2015 08 07.87120	21 22 17.19	−01 50 18.0	16.6	N	A71
C/2011 KP_{36}	2015 08 07.88178	21 22 17.01	−01 50 20.1	16.6	N	A71
C/2011 KP_{36}	2015 08 07.89380	21 22 16.80	−01 50 22.5	16.6	N	A71
C/2011 KP_{36}	2015 08 07.89731	21 22 16.73	−01 50 23.3	16.6	N	A71
C/2011 KP_{36}	2015 08 07.90083	21 22 16.67	−01 50 23.5	17.1	N	A71
C/2011 KP_{36}	2015 08 07.99289	21 22 14.68	−01 50 43.3	16.2	N	K 160
C/2011 KP_{36}	2015 08 07.99525	21 22 14.64	−01 50 43.8	16.2	N	K 160

C/2011 KP_{36}	2015 08 07.99761	21 22 14.58	−01 50 44.4	16.2	N	K 160
C/2011 KP_{36}	2015 08 08.12895	21 22 11.96	−01 51 12.1	15.8	N	750
C/2011 KP_{36}	2015 08 08.17145	21 22 11.08	−01 51 21.6	15.9	N	750
C/2011 KP_{36}	2015 08 08.46382	21 22 05.31	−01 52 19.2	15.9	N	Q68
C/2011 KP_{36}	2015 08 08.51481	21 22 04.25	−01 52 30.0	15.9	N	Q68
C/2011 KP_{36}	2015 08 08.51850	21 22 04.17	−01 52 30.8	15.6	N	30D90
C/2011 KP_{36}	2015 08 08.52742	21 22 04.01	−01 52 32.6	15.6	N	30D90
C/2011 KP_{36}	2015 08 08.53634	21 22 03.82	−01 52 34.4	15.6	N	30D90
C/2011 KP_{36}	2015 08 09.02334	21 21 53.95	−01 54 19.8	15.7	N	I72
C/2011 KP_{36}	2015 08 09.02626	21 21 53.89	−01 54 20.4	15.6	N	I72
C/2011 KP_{36}	2015 08 09.02918	21 21 53.84	−01 54 21.1	15.7	N	I72
C/2011 KP_{36}	2015 08 09.87457	21 21 36.80	−01 57 21.9	16.6	N	A71
C/2011 KP_{36}	2015 08 09.88161	21 21 36.66	−01 57 23.4	16.4	N	A71
C/2011 KP_{36}	2015 08 09.89218	21 21 36.44	−01 57 25.8	16.5	N	A71
C/2011 KP_{36}	2015 08 09.89657	21 21 36.35	−01 57 26.8	16.5	N	A71
C/2011 KP_{36}	2015 08 09.94212	21 21 35.43	−01 57 36.4	15.8	N	J01
C/2011 KP_{36}	2015 08 09.94934	21 21 35.27	−01 57 37.9	15.8	N	J01
C/2011 KP_{36}	2015 08 09.95655	21 21 35.15	−01 57 39.3	16.2	N	J01
C/2011 KP_{36}	2015 08 10.49374	21 21 24.27	−01 59 33.3	15.9	N	Q68
C/2011 KP_{36}	2015 08 10.53341	21 21 23.44	−01 59 41.9	15.9	N	Q68
C/2011 KP_{36}	2015 08 10.98811	21 21 14.19	−02 01 24.0	15.6	N	J36
C/2011 KP_{36}	2015 08 10.99043	21 21 14.12	−02 01 24.4	15.7	N	J36
C/2011 KP_{36}	2015 08 10.99858	21 21 13.96	−02 01 26.0	15.7	N	J36
C/2011 KP_{36}	2015 08 11.85188	21 20 56.73	−02 04 34.6	15.8	T	C27
C/2011 KP_{36}	2015 08 11.87205	21 20 56.32	−02 04 39.3	15.8	T	C27
C/2011 KP_{36}	2015 08 11.88593	21 20 56.03	−02 04 42.1	15.8	T	C27
C/2011 KP_{36}	2015 08 11.93957	21 20 54.92	−02 04 54.2	15.9	T	C27
C/2011 KP_{36}	2015 08 11.94812	21 20 54.71	−02 04 56.2	16.8	N	K 160
C/2011 KP_{36}	2015 08 11.95060	21 20 54.66	−02 04 56.8	16.8	N	K 160
C/2011 KP_{36}	2015 08 11.95308	21 20 54.59	−02 04 57.5	16.8	N	K 160
C/2011 KP_{36}	2015 08 12.91804	21 20 35.00	−02 08 33.9	16.4	N	K 160
C/2011 KP_{36}	2015 08 12.92050	21 20 34.94	−02 08 34.3	16.4	N	K 160
C/2011 KP_{36}	2015 08 12.92296	21 20 34.91	−02 08 34.8	16.5	N	K 160
C/2011 KP_{36}	2015 08 13.08010	21 20 31.74	−02 09 08.2	16.3	N	W96
C/2011 KP_{36}	2015 08 13.13956	21 20 30.54	−02 09 21.8	16.2	N	W96
C/2011 KP_{36}	2015 08 13.14786	21 20 30.32	−02 09 23.4	16.2	N	W96
C/2011 KP_{36}	2015 08 13.17350	21 20 29.77	−02 09 29.6	16.1	N	W96
C/2011 KP_{36}	2015 08 13.84818	21 20 16.14	−02 12 05.4	15.9	T	C27
C/2011 KP_{36}	2015 08 13.88286	21 20 15.42	−02 12 13.3	15.8	T	C27
C/2011 KP_{36}	2015 08 13.92047	21 20 14.58	−02 12 22.0	16.2	N	083
C/2011 KP_{36}	2015 08 13.93440	21 20 14.31	−02 12 25.5	16.4	N	083
C/2011 KP_{36}	2015 08 13.94832	21 20 13.94	−02 12 29.8	16.6	N	083
C/2011 KP_{36}	2015 08 14.02851	21 20 12.33	−02 12 47.0	16.5	N	583
C/2011 KP_{36}	2015 08 14.02990	21 20 12.30	−02 12 47.3	16.2	N	583
C/2011 KP_{36}	2015 08 14.03128	21 20 12.26	−02 12 47.6	16.1	N	583
C/2011 KP_{36}	2015 08 14.03198	21 20 12.25	−02 12 47.7	16.3	N	583
C/2011 KP_{36}	2015 08 14.03453	21 20 12.19	−02 12 48.3	16.3	N	583
C/2011 KP_{36}	2015 08 14.03522	21 20 12.18	−02 12 48.4	16.3	N	583
C/2011 KP_{36}	2015 08 14.03661	21 20 12.14	−02 12 48.7	16.1	N	583
C/2011 KP_{36}	2015 08 14.03730	21 20 12.13	−02 12 48.9	16.6	N	583
C/2011 KP_{36}	2015 08 14.03800	21 20 12.13	−02 12 49.3	16.4	N	583
C/2011 KP_{36}	2015 08 14.03869	21 20 12.12	−02 12 49.2	16.3	N	583
C/2011 KP_{36}	2015 08 14.05105	21 20 11.84	−02 12 52.0	16.6	N	583
C/2011 KP_{36}	2015 08 14.05244	21 20 11.84	−02 12 52.2	16.5	N	583
C/2011 KP_{36}	2015 08 14.05383	21 20 11.79	−02 12 53.0	16.5	N	583
C/2011 KP_{36}	2015 08 14.05453	21 20 11.75	−02 12 52.8	16.5	N	583
C/2011 KP_{36}	2015 08 14.05522	21 20 11.76	−02 12 53.1	16.5	N	583
C/2011 KP_{36}	2015 08 15.04920	21 19 51.66	−02 16 42.6	15.6	N	J22
C/2011 KP_{36}	2015 08 15.05313	21 19 51.59	−02 16 43.6	15.6	N	J22
C/2011 KP_{36}	2015 08 15.05700	21 19 51.51	−02 16 44.8	15.6	N	J22
C/2011 KP_{36}	2015 08 16.01124	21 19 32.12	−02 20 28.4	15.7	N	I57
C/2011 KP_{36}	2015 08 16.01861	21 19 31.98	−02 20 30.4	15.7	N	I57
C/2011 KP_{36}	2015 08 16.02604	21 19 31.82	−02 20 32.0	15.7	N	I57
C/2011 KP_{36}	2015 08 16.53597	21 19 21.50	−02 22 30.5	15.9	N	Q68
C/2011 KP_{36}	2015 08 16.63476	21 19 19.41	−02 22 54.5	15.9	N	Q68
C/2011 KP_{36}	2015 08 17.91807	21 18 53.68	−02 28 03.6	16.3	N	9 G40
C/2011 KP_{36}	2015 08 17.95293	21 18 52.98	−02 28 12.1	16.2	N	9 G40
C/2011 KP_{36}	2015 08 17.98760	21 18 52.24	−02 28 20.5	16.2	N	9 G40
C/2011 KP_{36}	2015 08 18.25232	21 18 46.77	−02 29 25.5	14.6	T	703
C/2011 KP_{36}	2015 08 18.25832	21 18 46.63	−02 29 27.1	14.6	T	703
C/2011 KP_{36}	2015 08 18.26433	21 18 46.50	−02 29 28.6	14.6	T	703
C/2011 KP_{36}	2015 08 18.27630	21 18 46.23	−02 29 31.7	14.6	T	703
C/2011 KP_{36}	2015 08 18.92826	21 18 33.37	−02 32 09.1	17.1	N	A71
C/2011 KP_{36}	2015 08 18.93670	21 18 33.20	−02 32 11.5	16.4	N	A71
C/2011 KP_{36}	2015 08 18.94514	21 18 33.02	−02 32 13.7	16.4	N	A71
C/2011 KP_{36}	2015 08 19.93044	21 18 13.32	−02 36 15.7	15.6	N	C23
C/2011 KP_{36}	2015 08 19.93568	21 18 13.27	−02 36 17.1	15.9	N	C23
C/2011 KP_{36}	2015 08 19.94242	21 18 13.13	−02 36 18.9	16.0	N	C23
C/2011 KP_{36}	2015 08 19.99714	21 18 12.07	−02 36 31.2	15.6	N	J53
C/2011 KP_{36}	2015 08 20.00567	21 18 11.88	−02 36 33.4	15.6	N	J53
C/2011 KP_{36}	2015 08 20.01422	21 18 11.71	−02 36 35.4	15.6	N	J53
C/2011 KP_{36}	2015 08 20.42578	21 18 03.61	−02 38 15.8	15.9	N	Q68
C/2011 KP_{36}	2015 08 20.44953	21 18 03.14	−02 38 21.4	16.0	N	Q68
C/2011 KP_{36}	2015 08 21.93095	21 17 33.81	−02 44 34.3	16.5	N	B96
C/2011 KP_{36}	2015 08 21.93593	21 17 33.78	−02 44 35.3	16.5	N	B96
C/2011 KP_{36}	2015 08 21.93758	21 17 33.70	−02 44 36.1	16.5	N	B96
C/2011 KP_{36}	2015 08 21.93924	21 17 33.65	−02 44 36.0	16.4	N	B96
C/2011 KP_{36}	2015 08 21.96544	21 17 33.26	−02 44 42.4	15.7	N	J22
C/2011 KP_{36}	2015 08 21.96922	21 17 33.14	−02 44 43.9	16.1	N	K K25
C/2011 KP_{36}	2015 08 21.96951	21 17 33.10	−02 44 43.8	15.5	N	J36
C/2011 KP_{36}	2015 08 21.96985	21 17 33.18	−02 44 43.6	15.7	N	J22
C/2011 KP_{36}	2015 08 21.97191	21 17 33.08	−02 44 44.4	15.5	N	J36
C/2011 KP_{36}	2015 08 21.97421	21 17 33.08	−02 44 44.8	15.7	N	J22
C/2011 KP_{36}	2015 08 21.97531	21 17 32.99	−02 44 45.5	16.0	N	K K25
C/2011 KP_{36}	2015 08 21.97590	21 17 32.93	−02 44 45.8	15.6	N	J36
C/2011 KP_{36}	2015 08 21.98178	21 17 32.86	−02 44 47.0	16.0	N	K K25
C/2011 KP_{36}	2015 08 22.89492	21 17 15.12	−02 48 37.7	15.5	N	J36
C/2011 KP_{36}	2015 08 22.90176	21 17 14.97	−02 48 39.6	15.6	N	J36
C/2011 KP_{36}	2015 08 22.90975	21 17 14.81	−02 48 41.9	15.5	N	J36
C/2011 KP_{36}	2015 08 22.92565	21 17 14.47	−02 48 45.9	15.9	N	B96
C/2011 KP_{36}	2015 08 22.92897	21 17 14.45	−02 48 46.3	16.4	N	B96
C/2011 KP_{36}	2015 08 22.93562	21 17 14.28	−02 48 48.4	16.1	N	B96
C/2011 KP_{36}	2015 08 22.93596	21 17 14.28	−02 48 48.3	16.1	N	107
C/2011 KP_{36}	2015 08 22.96023	21 17 13.79	−02 48 54.1	16.1	N	107
C/2011 KP_{36}	2015 08 22.98309	21 17 13.32	−02 49 00.2	15.7	N	107
C/2011 KP_{36}	2015 08 23.05215	21 17 12.07	−02 49 17.9	16.2	N	G30

C/2011 KP_{36}	2015 08 23.07211	21 17 11.67	−02 49 23.3	16.2	N	G30
C/2011 KP_{36}	2015 08 23.07823	21 17 11.55	−02 49 24.7	16.3	N	G30
C/2011 KP_{36}	2015 08 23.08961	21 17 11.33	−02 49 27.6	16.3	N	G30
C/2011 KP_{36}	2015 08 24.86176	21 16 37.27	−02 57 01.4	15.5	N	939
C/2011 KP_{36}	2015 08 24.87756	21 16 36.97	−02 57 05.3	15.6	N	939
C/2011 KP_{36}	2015 08 24.88810	21 16 36.77	−02 57 07.8	15.6	N	939
C/2011 KP_{36}	2015 08 24.94241	21 16 35.77	−02 57 21.6	16.4	N	J01
C/2011 KP_{36}	2015 08 24.95674	21 16 35.46	−02 57 25.4	16.4	N	J01
C/2011 KP_{36}	2015 08 24.97108	21 16 35.16	−02 57 29.3	16.5	N	J01
C/2011 KP_{36}	2015 08 25.84959	21 16 18.63	−03 01 16.9	15.6	N	C86
C/2011 KP_{36}	2015 08 25.85256	21 16 18.58	−03 01 18.0	15.6	N	C86
C/2011 KP_{36}	2015 08 25.85851	21 16 18.49	−03 01 19.2	15.6	N	C86
C/2011 KP_{36}	2015 08 25.91327	21 16 17.40	−03 01 33.5	16.2	N	K K61
C/2011 KP_{36}	2015 08 25.91497	21 16 17.35	−03 01 34.0	16.0	N	K K61
C/2011 KP_{36}	2015 08 26.87212	21 15 59.53	−03 05 43.4	16.9	N	K C47
C/2011 KP_{36}	2015 08 26.87581	21 15 59.45	−03 05 44.5	17.1	N	K C47
C/2011 KP_{36}	2015 08 26.87950	21 15 59.40	−03 05 45.4	17.1	N	K C47
C/2011 KP_{36}	2015 08 26.88319	21 15 59.30	−03 05 46.5	17.2	N	K C47
C/2011 KP_{36}	2015 08 26.88688	21 15 59.25	−03 05 47.3	16.7	N	K C47
C/2011 KP_{36}	2015 08 26.89076	21 15 59.17	−03 05 48.4	16.8	N	K C47

C/2012 F3 (PANSTARRS)

C/2012 F3	2015 05 16.67427	19 26 45.03	−08 53 59.2	15.0	T	D95
C/2012 F3	2015 05 16.67792	19 26 45.08	−08 53 58.9			D95
C/2012 F3	2015 05 16.68010	19 26 45.11	−08 53 58.3			D95
C/2012 F3	2015 06 10.57668	19 27 32.95	−08 21 28.9	14.9	T	D95
C/2012 F3	2015 06 10.58033	19 27 32.91	−08 21 28.5			D95
C/2012 F3	2015 06 10.58617	19 27 32.84	−08 21 28.3			D95
C/2012 F3	2015 06 10.69080	19 27 31.76	−08 21 27.0	14.6	T	349
C/2012 F3	2015 06 10.70215	19 27 31.66	−08 21 26.8			349
C/2012 F3	2015 06 10.97648	19 27 29.05	−08 21 25.5	15.2	N	585
C/2012 F3	2015 06 10.97684	19 27 29.07	−08 21 25.5	15.2	N	585
C/2012 F3	2015 06 10.97721	19 27 29.04	−08 21 25.1	15.3	N	585
C/2012 F3	2015 06 10.97757	19 27 29.02	−08 21 25.6	15.2	N	585
C/2012 F3	2015 06 10.97793	19 27 29.04	−08 21 25.4	15.3	N	585
C/2012 F3	2015 06 10.97829	19 27 29.03	−08 21 24.9	15.3	N	585
C/2012 F3	2015 06 10.97865	19 27 29.04	−08 21 25.2	15.2	N	585
C/2012 F3	2015 06 10.97901	19 27 29.00	−08 21 25.2	15.4	N	585
C/2012 F3	2015 06 10.97937	19 27 29.02	−08 21 25.3	15.2	N	585
C/2012 F3	2015 06 10.97973	19 27 29.00	−08 21 25.4	15.3	N	585
C/2012 F3	2015 06 10.98009	19 27 29.01	−08 21 25.6	15.3	N	585
C/2012 F3	2015 06 10.98045	19 27 28.98	−08 21 25.6	15.1	N	585
C/2012 F3	2015 06 10.98082	19 27 29.01	−08 21 25.4	15.2	N	585
C/2012 F3	2015 06 10.98118	19 27 28.99	−08 21 24.9	15.2	N	585
C/2012 F3	2015 06 10.98154	19 27 28.99	−08 21 25.6	15.3	N	585
C/2012 F3	2015 06 10.98226	19 27 28.97	−08 21 25.0	15.1	N	585
C/2012 F3	2015 06 12.31970	19 27 15.37	−08 21 19.7	13.8	T	K H06
C/2012 F3	2015 06 12.32093	19 27 15.36	−08 21 20.2	15.2	N	K H06
C/2012 F3	2015 06 30.00798	19 22 26.82	−08 37 23.0	15.3	N	C23
C/2012 F3	2015 06 30.01375	19 22 26.68	−08 37 23.3	15.5	N	C23
C/2012 F3	2015 06 30.01953	19 22 26.56	−08 37 23.7	15.7	N	C23
C/2012 F3	2015 07 01.01759	19 22 05.90	−08 39 13.4	15.5	N	B96
C/2012 F3	2015 07 01.02091	19 22 05.80	−08 39 13.8	15.4	N	B96
C/2012 F3	2015 07 01.02542	19 22 05.76	−08 39 14.1	15.4	N	B96
C/2012 F3	2015 07 01.02874	19 22 05.66	−08 39 14.3	15.5	N	B96
C/2012 F3	2015 07 01.03206	19 22 05.60	−08 39 14.5	15.4	N	B96
C/2012 F3	2015 07 06.97002	19 19 58.37	−08 52 08.4	17.5	N	B96
C/2012 F3	2015 07 06.97168	19 19 58.42	−08 52 08.4	17.3	N	B96
C/2012 F3	2015 07 06.97333	19 19 58.44	−08 52 08.5	17.3	N	B96
C/2012 F3	2015 07 06.97500	19 19 58.40	−08 52 08.5	17.4	N	B96
C/2012 F3	2015 07 06.97666	19 19 58.44	−08 52 09.2	17.4	N	B96
C/2012 F3	2015 07 06.97831	19 19 58.38	−08 52 08.5	17.2	N	B96
C/2012 F3	2015 07 06.97998	19 19 58.38	−08 52 08.1	17.4	N	B96
C/2012 F3	2015 07 06.98164	19 19 57.95	−08 52 05.8	15.1	N	J38
C/2012 F3	2015 07 06.98343	19 19 57.89	−08 52 05.9	15.1	N	J38
C/2012 F3	2015 07 06.98521	19 19 57.87	−08 52 06.0	15.1	N	J38
C/2012 F3	2015 07 07.01659	19 19 57.06	−08 52 10.8	15.4	N	C23
C/2012 F3	2015 07 07.02033	19 19 57.00	−08 52 11.4	15.4	N	C23
C/2012 F3	2015 07 07.02483	19 19 56.91	−08 52 11.6	15.8	N	C23
C/2012 F3	2015 07 07.91771	19 19 37.42	−08 54 24.1	16.2	N	J01
C/2012 F3	2015 07 07.92130	19 19 37.28	−08 54 24.2	16.2	N	J01
C/2012 F3	2015 07 07.92487	19 19 37.23	−08 54 25.1	16.2	N	J01
C/2012 F3	2015 07 09.95310	19 18 52.30	−08 59 40.0	16.2	N	B96
C/2012 F3	2015 07 09.95808	19 18 52.16	−08 59 40.8	16.2	N	B96
C/2012 F3	2015 07 09.96307	19 18 52.09	−08 59 41.9	16.3	N	B96
C/2012 F3	2015 07 10.13836	19 18 48.20	−09 00 10.9	16.4	N	750
C/2012 F3	2015 07 10.15771	19 18 47.89	−09 00 12.6	15.9	N	750
C/2012 F3	2015 07 10.48476	19 18 40.62	−09 01 06.3	14.2	T	D95
C/2012 F3	2015 07 10.49205	19 18 40.46	−09 01 07.4			D95
C/2012 F3	2015 07 10.49351	19 18 40.43	−09 01 07.8			D95
C/2012 F3	2015 07 10.91233	19 18 31.05	−09 02 16.4	15.3	N	C86
C/2012 F3	2015 07 10.91856	19 18 30.96	−09 02 17.4	15.3	N	C86
C/2012 F3	2015 07 10.92478	19 18 30.80	−09 02 18.9	15.1	N	C86
C/2012 F3	2015 07 10.93238	19 18 30.49	−09 02 23.1	14.1	N	C35
C/2012 F3	2015 07 10.93407	19 18 30.50	−09 02 23.2	14.1	N	C35
C/2012 F3	2015 07 10.93578	19 18 30.49	−09 02 23.0	14.1	N	C35
C/2012 F3	2015 07 10.93747	19 18 30.48	−09 02 23.1	14.1	N	C35
C/2012 F3	2015 07 10.97619	19 18 29.66	−09 02 27.0	16.3	N	J01
C/2012 F3	2015 07 10.98365	19 18 29.49	−09 02 28.0	16.3	N	J01
C/2012 F3	2015 07 10.98734	19 18 29.41	−09 02 28.8	16.3	N	J01
C/2012 F3	2015 07 11.58008	19 18 16.29	−09 04 07.0	14.7	T	349
C/2012 F3	2015 07 11.58735	19 18 16.11	−09 04 08.6			349
C/2012 F3	2015 07 11.62238	19 18 15.30	−09 04 14.6	14.7	T	D95
C/2012 F3	2015 07 11.62822	19 18 15.16	−09 04 15.8			D95
C/2012 F3	2015 07 11.62968	19 18 15.12	−09 04 16.2			D95
C/2012 F3	2015 07 11.93588	19 18 08.43	−09 05 08.1	15.3	N	939
C/2012 F3	2015 07 11.94456	19 18 08.23	−09 05 09.6	15.2	N	939
C/2012 F3	2015 07 11.95324	19 18 08.03	−09 05 10.9	15.2	N	939
C/2012 F3	2015 07 13.00022	19 17 44.87	−09 08 11.7	15.3	N	J38
C/2012 F3	2015 07 13.00236	19 17 44.84	−09 08 12.1	15.2	N	J38
C/2012 F3	2015 07 13.00662	19 17 44.76	−09 08 12.6	15.2	N	J38
C/2012 F3	2015 07 13.98819	19 17 23.17	−09 11 06.8	15.2	N	J38
C/2012 F3	2015 07 13.99067	19 17 23.13	−09 11 07.3	15.3	N	J38
C/2012 F3	2015 07 14.00061	19 17 22.89	−09 11 09.1	15.3	N	J38
C/2012 F3	2015 07 14.89220	19 17 03.47	−09 13 51.0	15.8	N	K14
C/2012 F3	2015 07 14.91920	19 17 02.78	−09 13 55.9	15.7	N	K14

C/2012 F3	2015 07 14.95771	19 17 01.95	−09 14 02.9	16.3	N	958
C/2012 F3	2015 07 14.96947	19 17 01.70	−09 14 05.7	16.1	N	958
C/2012 F3	2015 07 14.98344	19 17 01.43	−09 14 07.7	16.2	N	958
C/2012 F3	2015 07 14.99563	19 17 01.08	−09 14 09.6	15.8	N	K K25
C/2012 F3	2015 07 15.00148	19 17 00.96	−09 14 10.7	16.1	N	K K25
C/2012 F3	2015 07 15.01049	19 17 00.75	−09 14 12.6	15.9	N	K K25
C/2012 F3	2015 07 15.90591	19 16 41.35	−09 16 59.5	15.9	N	C47
C/2012 F3	2015 07 15.91307	19 16 41.16	−09 17 00.6	16.7	N	C47
C/2012 F3	2015 07 15.96389	19 16 40.07	−09 17 10.1	16.0	N	K 215
C/2012 F3	2015 07 15.96517	19 16 40.04	−09 17 10.3	16.0	N	K 215
C/2012 F3	2015 07 15.96644	19 16 40.01	−09 17 10.6	16.0	N	K 215
C/2012 F3	2015 07 16.93328	19 16 19.31	−09 20 14.2	15.2	N	939
C/2012 F3	2015 07 16.93763	19 16 19.18	−09 20 14.8	15.2	N	939
C/2012 F3	2015 07 16.94197	19 16 19.06	−09 20 15.5	15.3	N	939
C/2012 F3	2015 07 19.99302	19 15 14.67	−09 30 20.9	15.9	N	C23
C/2012 F3	2015 07 19.99526	19 15 14.66	−09 30 21.1	15.4	N	C23
C/2012 F3	2015 07 19.99751	19 15 14.59	−09 30 21.9	15.5	N	C23
C/2012 F3	2015 07 21.13573	19 14 51.32	−09 34 17.1	16.1	N	750
C/2012 F3	2015 07 21.15235	19 14 50.96	−09 34 20.6	16.3	N	750
C/2012 F3	2015 07 21.92788	19 14 35.40	−09 37 02.1	15.3	N	B82
C/2012 F3	2015 07 21.93148	19 14 35.34	−09 37 02.6	15.3	N	B82
C/2012 F3	2015 07 21.93508	19 14 35.25	−09 37 03.6	15.3	N	B82
C/2012 F3	2015 07 21.93868	19 14 35.15	−09 37 04.1	15.3	N	B82
C/2012 F3	2015 07 21.94229	19 14 35.07	−09 37 04.5	15.3	N	B82
C/2012 F3	2015 07 25.72101	19 13 22.34	−09 50 44.6			K 367
C/2012 F3	2015 07 25.72263	19 13 22.31	−09 50 45.0			K 367
C/2012 F3	2015 07 25.72384	19 13 22.28	−09 50 45.2	15.2	T	K 367
C/2012 F3	2015 07 25.92128	19 13 18.88	−09 51 29.2	15.7	N	K14
C/2012 F3	2015 07 25.93006	19 13 18.64	−09 51 31.7	16.6	N	B96
C/2012 F3	2015 07 25.93559	19 13 18.55	−09 51 33.0	15.5	N	K14
C/2012 F3	2015 07 25.93669	19 13 18.47	−09 51 33.0	16.5	N	B96
C/2012 F3	2015 07 25.94333	19 13 18.42	−09 51 35.9	16.5	N	B96
C/2012 F3	2015 07 25.95045	19 13 18.20	−09 51 37.5	15.5	N	K14
C/2012 F3	2015 07 25.98011	19 13 17.73	−09 51 43.0	15.3	N	J38
C/2012 F3	2015 07 25.98438	19 13 17.65	−09 51 43.6	15.3	N	J38
C/2012 F3	2015 07 25.99079	19 13 17.53	−09 51 45.1	15.3	N	J38
C/2012 F3	2015 07 29.00206	19 12 24.78	−10 03 10.0	15.3	N	J36
C/2012 F3	2015 07 29.01265	19 12 24.57	−10 03 12.5	15.4	N	J36
C/2012 F3	2015 07 29.01721	19 12 24.51	−10 03 13.6	15.3	N	J36
C/2012 F3	2015 08 01.89023	19 11 24.16	−10 18 27.3	16.3	N	K A77
C/2012 F3	2015 08 01.89863	19 11 24.00	−10 18 27.2	16.5	N	K A77
C/2012 F3	2015 08 01.91489	19 11 23.87	−10 18 32.0	16.5	N	K A77
C/2012 F3	2015 08 01.94068	19 11 23.46	−10 18 38.9	15.5	N	C23
C/2012 F3	2015 08 01.94368	19 11 23.41	−10 18 40.3	15.4	N	C23
C/2012 F3	2015 08 01.94668	19 11 23.38	−10 18 39.9	15.2	N	C23
C/2012 F3	2015 08 02.91808	19 11 09.68	−10 22 33.3	15.8	N	C86
C/2012 F3	2015 08 02.92872	19 11 09.46	−10 22 35.7	15.8	N	C86
C/2012 F3	2015 08 02.93227	19 11 09.46	−10 22 37.8	15.7	N	C86
C/2012 F3	2015 08 04.23600	19 10 51.95	−10 27 50.2	15.6	N	KW96
C/2012 F3	2015 08 04.27008	19 10 51.48	−10 27 58.2	15.5	N	KW96
C/2012 F3	2015 08 04.53681	19 10 48.20	−10 29 01.4	15.6	N	Q68
C/2012 F3	2015 08 04.58731	19 10 47.51	−10 29 13.8	15.5	N	Q68
C/2012 F3	2015 08 04.64712	19 10 46.68	−10 29 28.1	15.4	N	Q68
C/2012 F3	2015 08 04.87451	19 10 44.04	−10 30 28.4	15.4	N	939
C/2012 F3	2015 08 04.87811	19 10 43.97	−10 30 28.9	15.6	N	C86
C/2012 F3	2015 08 04.87828	19 10 43.98	−10 30 29.2	15.5	N	939
C/2012 F3	2015 08 04.88567	19 10 43.88	−10 30 31.0	15.5	N	C86
C/2012 F3	2015 08 04.88581	19 10 43.88	−10 30 30.9	15.5	N	939
C/2012 F3	2015 08 04.89324	19 10 43.76	−10 30 32.4	15.6	N	C86
C/2012 F3	2015 08 06.53025	19 10 24.34	−10 37 10.2	15.4	N	Q68
C/2012 F3	2015 08 06.59494	19 10 23.49	−10 37 26.1	15.7	N	Q68
C/2012 F3	2015 08 06.86395	19 10 20.60	−10 38 36.4	15.5	N	C86
C/2012 F3	2015 08 06.86779	19 10 20.58	−10 38 37.2	15.5	N	C86
C/2012 F3	2015 08 06.87641	19 10 20.52	−10 38 39.4	16.0	N	9 G40
C/2012 F3	2015 08 06.87921	19 10 20.44	−10 38 40.5	15.5	N	C86
C/2012 F3	2015 08 06.89033	19 10 20.36	−10 38 42.8	16.0	N	9 G40
C/2012 F3	2015 08 06.91115	19 10 20.12	−10 38 47.9	16.0	N	9 G40
C/2012 F3	2015 08 06.91213	19 10 20.01	−10 38 48.6	16.8	N	K 160
C/2012 F3	2015 08 06.91412	19 10 19.99	−10 38 49.1	16.9	N	K 160
C/2012 F3	2015 08 06.91611	19 10 19.98	−10 38 49.7	16.8	N	K 160
C/2012 F3	2015 08 06.93130	19 10 19.82	−10 38 53.3	16.9	N	B96
C/2012 F3	2015 08 06.93627	19 10 19.80	−10 38 54.4	16.9	N	B96
C/2012 F3	2015 08 06.94125	19 10 19.73	−10 38 56.1	17.2	N	B96
C/2012 F3	2015 08 07.43867	19 10 14.42	−10 40 54.8	15.6	N	Q68
C/2012 F3	2015 08 07.50152	19 10 13.67	−10 41 10.0	15.5	N	Q68
C/2012 F3	2015 08 07.56741	19 10 12.97	−10 41 30.7			K D81
C/2012 F3	2015 08 07.57341	19 10 12.91	−10 41 32.7			K D81
C/2012 F3	2015 08 07.57940	19 10 12.82	−10 41 34.2			K D81
C/2012 F3	2015 08 07.58530	19 10 12.80	−10 41 35.6	14.7	T	K D81
C/2012 F3	2015 08 08.13234	19 10 07.06	−10 43 49.5	17.1	N	750
C/2012 F3	2015 08 08.17377	19 10 06.74	−10 44 01.8	17.1	N	750
C/2012 F3	2015 08 08.39898	19 10 04.57	−10 44 52.7	15.6	N	Q68
C/2012 F3	2015 08 08.45109	19 10 04.04	−10 45 06.1	15.5	N	30D90
C/2012 F3	2015 08 08.45347	19 10 04.00	−10 45 06.6	15.5	N	30D90
C/2012 F3	2015 08 08.45823	19 10 03.99	−10 45 08.0	15.5	N	30D90
C/2012 F3	2015 08 08.49579	19 10 03.53	−10 45 16.8	15.6	N	Q68
C/2012 F3	2015 08 09.01536	19 09 58.42	−10 47 29.7	15.6	N	I72
C/2012 F3	2015 08 09.01828	19 09 58.39	−10 47 30.3	15.6	N	I72
C/2012 F3	2015 08 09.02120	19 09 58.35	−10 47 30.9	15.6	N	I72
C/2012 F3	2015 08 10.14199	19 09 48.38	−10 52 11.1	16.2	N	G30
C/2012 F3	2015 08 10.14487	19 09 48.33	−10 52 11.4	16.2	N	G30
C/2012 F3	2015 08 10.15350	19 09 48.22	−10 52 14.0	16.1	N	G30
C/2012 F3	2015 08 10.16039	19 09 48.14	−10 52 15.9	16.1	N	G30
C/2012 F3	2015 08 10.47931	19 09 45.54	−10 53 32.0	15.6	N	Q68
C/2012 F3	2015 08 10.52116	19 09 45.15	−10 53 42.1	15.7	N	Q68
C/2012 F3	2015 08 12.12113	19 09 32.93	−11 00 25.5	16.3	N	750
C/2012 F3	2015 08 12.13617	19 09 32.82	−11 00 30.9	16.3	N	750
C/2012 F3	2015 08 12.53308	19 09 30.02	−11 02 05.5	16.9	N	467
C/2012 F3	2015 08 12.53563	19 09 29.99	−11 02 06.5	16.9	N	467
C/2012 F3	2015 08 12.53721	19 09 29.98	−11 02 06.7	16.8	N	467
C/2012 F3	2015 08 13.02357	19 09 27.01	−11 04 10.5	16.2	N	W96
C/2012 F3	2015 08 13.07294	19 09 26.66	−11 04 23.4	16.0	N	W96
C/2012 F3	2015 08 13.63145	19 09 23.24	−11 06 41.8	15.7	N	Q68
C/2012 F3	2015 08 13.65365	19 09 23.03	−11 06 48.4	15.9	N	Q68
C/2012 F3	2015 08 14.49543	19 09 18.71	−11 10 19.1	16.8	N	K E07
C/2012 F3	2015 08 14.49844	19 09 18.66	−11 10 19.6	17.8	N	K E07

C/2012 F3	2015 08 16.49542	19 09 10.41	−11 18 41.7	15.9	N	Q68
C/2012 F3	2015 08 16.61655	19 09 09.90	−11 19 12.0	15.8	N	Q68
C/2012 F3	2015 08 17.84851	19 09 06.80	−11 24 24.4	16.4	N	K A77
C/2012 F3	2015 08 17.85777	19 09 06.80	−11 24 25.8	16.4	N	K A77
C/2012 F3	2015 08 17.86715	19 09 06.80	−11 24 30.9	16.4	N	K A77
C/2012 F3	2015 08 19.58284	19 09 04.42	−11 31 35.6	15.9	N	Q68
C/2012 F3	2015 08 19.63965	19 09 04.35	−11 31 49.2	16.0	N	Q68
C/2012 F3	2015 08 19.87657	19 09 04.43	−11 32 54.3	15.5	N	C23
C/2012 F3	2015 08 19.87957	19 09 04.48	−11 32 55.9	14.9	N	C23
C/2012 F3	2015 08 19.88257	19 09 04.41	−11 32 54.9	15.7	N	C23
C/2012 F3	2015 08 20.38156	19 09 04.47	−11 34 54.9	15.9	N	Q68
C/2012 F3	2015 08 20.43086	19 09 04.47	−11 35 07.5	16.0	N	Q68
C/2012 F3	2015 08 21.85514	19 09 05.72	−11 41 06.0	15.8	N	B82
C/2012 F3	2015 08 21.86262	19 09 05.72	−11 41 07.8	15.7	N	B82
C/2012 F3	2015 08 21.87010	19 09 05.72	−11 41 09.5	15.7	N	B82
C/2012 F3	2015 08 21.87294	19 09 05.68	−11 41 10.6	16.1	N	K C43
C/2012 F3	2015 08 21.87906	19 09 05.70	−11 41 11.6	15.9	N	K C43
C/2012 F3	2015 08 21.89426	19 09 05.72	−11 41 15.6	16.1	N	K C43
C/2012 F3	2015 08 22.86964	19 09 07.76	−11 45 17.9	15.6	N	J36
C/2012 F3	2015 08 22.87122	19 09 07.77	−11 45 17.9	15.7	N	J36
C/2012 F3	2015 08 22.87598	19 09 07.80	−11 45 18.6	15.6	N	J36
C/2012 F3	2015 08 24.91288	19 09 14.78	−11 53 40.4	16.6	N	J01
C/2012 F3	2015 08 24.92006	19 09 14.83	−11 53 41.8	16.5	N	J01
C/2012 F3	2015 08 24.92725	19 09 14.84	−11 53 43.9	16.7	N	J01

C/2012 K1 (PANSTARRS)

C/2012 K1	2015 06 07.82137	00 55 30.23	−17 26 57.0			1 Q62
C/2012 K1	2015 06 07.82221	00 55 30.22	−17 26 57.3			1 Q62
C/2012 K1	2015 06 07.82307	00 55 30.22	−17 26 57.5	14.7	T	1 Q62
C/2012 K1	2015 07 23.22256	00 36 54.63	−22 03 59.1	16.0	N	W98
C/2012 K1	2015 07 23.23859	00 36 53.81	−22 04 03.4	16.2	N	W98
C/2012 K1	2015 07 23.25469	00 36 52.99	−22 04 10.9	16.2	N	W98
C/2012 K1	2015 07 25.74450	00 34 46.29	−22 24 46.9			K 367
C/2012 K1	2015 07 25.74572	00 34 46.22	−22 24 47.8			K 367
C/2012 K1	2015 07 25.74734	00 34 46.11	−22 24 48.3	15.0	T	K 367
C/2012 K1	2015 07 26.54669	00 34 03.958	−22 31 27.49	17.7	T	F51
C/2012 K1	2015 07 26.55698	00 34 03.399	−22 31 32.72	17.7	T	F51
C/2012 K1	2015 07 26.56714	00 34 02.842	−22 31 37.84	17.9	T	F51
C/2012 K1	2015 07 26.57758	00 34 02.283	−22 31 43.04	17.9	T	F51
C/2012 K1	2015 07 30.57422	00 30 20.569	−23 05 16.77	17.7	T	F51
C/2012 K1	2015 07 30.58454	00 30 19.962	−23 05 22.03	17.7	T	F51
C/2012 K1	2015 07 30.59472	00 30 19.360	−23 05 27.26	17.8	T	F51
C/2012 K1	2015 07 30.60519	00 30 18.749	−23 05 32.51	17.8	T	F51
C/2012 K1	2015 07 31.08292	00 29 51.13	−23 09 34.4	15.9	N	K C23
C/2012 K1	2015 07 31.08581	00 29 50.97	−23 09 36.0	16.1	N	K C23
C/2012 K1	2015 07 31.08870	00 29 50.75	−23 09 38.7	16.4	N	K C23
C/2012 K1	2015 08 06.27354	00 23 30.13	−24 01 54.8	16.8	T	W95
C/2012 K1	2015 08 06.28728	00 23 29.20	−24 02 02.1	16.9	T	W95
C/2012 K1	2015 08 06.30101	00 23 28.33	−24 02 08.7	16.8	T	W95
C/2012 K1	2015 08 06.31476	00 23 27.39	−24 02 16.0	17.0	T	W95
C/2012 K1	2015 08 06.34886	00 23 25.19	−24 02 33.9	16.2	N	W96
C/2012 K1	2015 08 06.39676	00 23 22.05	−24 02 57.5	16.2	N	W96
C/2012 K1	2015 08 07.67488	00 21 58.41	−24 13 42.5	16.3	N	Q68
C/2012 K1	2015 08 07.73215	00 21 54.59	−24 14 11.5	16.3	N	Q68
C/2012 K1	2015 08 08.64531	00 20 53.76	−24 21 51.1	16.3	N	Q68
C/2012 K1	2015 08 08.64780	00 20 53.60	−24 21 52.5	16.4	N	Q68
C/2012 K1	2015 08 10.63237	00 18 38.54	−24 38 25.9	16.5	N	Q68
C/2012 K1	2015 08 10.72271	00 18 32.24	−24 39 11.0	16.5	N	Q68
C/2012 K1	2015 08 11.28515	00 17 53.29	−24 43 50.5	16.2	N	W96
C/2012 K1	2015 08 11.31785	00 17 50.92	−24 44 07.6	16.2	N	W96
C/2012 K1	2015 08 13.01586	00 15 51.58	−24 58 08.3	17.5	N	K 215
C/2012 K1	2015 08 13.01715	00 15 51.48	−24 58 07.8	17.4	N	K 215
C/2012 K1	2015 08 13.01844	00 15 51.37	−24 58 08.6	17.3	N	K 215
C/2012 K1	2015 08 15.17150	00 13 16.24	−25 15 37.9	16.1	N	J22
C/2012 K1	2015 08 15.17244	00 13 16.11	−25 15 38.3	16.1	N	J22
C/2012 K1	2015 08 15.17463	00 13 15.99	−25 15 38.8	16.1	N	J22
C/2012 K1	2015 08 19.71078	00 07 37.35	−25 51 20.7	16.4	N	Q68
C/2012 K1	2015 08 19.77055	00 07 32.75	−25 51 48.4	16.4	N	Q68
C/2012 K1	2015 08 22.10168	00 04 33.32	−26 09 27.4	16.2	N	J22
C/2012 K1	2015 08 22.10286	00 04 33.18	−26 09 28.6	16.2	N	J22
C/2012 K1	2015 08 22.10521	00 04 33.00	−26 09 29.7	16.2	N	J22

C/2012 K8 (Lemmon)

C/2012 K8	2015 06 19.89733	14 44 01.35	+64 43 23.1	18.8	N	9 G40
C/2012 K8	2015 06 19.98020	14 43 53.29	+64 42 56.7	18.6	N	9 G40
C/2012 K8	2015 07 01.93147	14 26 52.24	+63 29 07.0	18.1	N	K C23
C/2012 K8	2015 07 01.94735	14 26 51.45	+63 29 01.5	18.3	N	K C23
C/2012 K8	2015 07 16.90267	14 11 37.53	+61 37 26.9	18.7	N	B82
C/2012 K8	2015 07 16.90627	14 11 37.27	+61 37 24.7	19.0	N	B82
C/2012 K8	2015 07 16.91705	14 11 36.76	+61 37 19.8	19.0	N	B82
C/2012 K8	2015 07 19.93262	14 09 18.34	+61 13 25.3	18.7	N	K C23
C/2012 K8	2015 07 19.93695	14 09 18.29	+61 13 22.6	18.3	N	K C23
C/2012 K8	2015 07 19.94128	14 09 17.98	+61 13 20.2	18.5	N	K C23
C/2012 K8	2015 08 04.88966	14 00 46.79	+59 05 02.9	18.5	N	K C23
C/2012 K8	2015 08 04.92606	14 00 45.97	+59 04 46.3	19.1	N	K C23
C/2012 K8	2015 08 04.93328	14 00 45.84	+59 04 41.0	18.2	N	K C23
C/2012 K8	2015 08 12.88809	13 58 30.95	+58 01 56.0	18.7	T	K 215
C/2012 K8	2015 08 12.89002	13 58 30.97	+58 01 55.2	19.0	T	K 215
C/2012 K8	2015 08 12.89194	13 58 30.94	+58 01 53.9	18.9	T	K 215

C/2012 LP$_{26}$ (Palomar)

C/2012 LP$_{26}$	2015 07 10.50299	19 57 13.74	−02 22 52.7	18.4	T	D95
C/2012 LP$_{26}$	2015 07 10.50868	19 57 13.65	−02 22 53.5			D95
C/2012 LP$_{26}$	2015 07 10.51295	19 57 13.62	−02 22 54.2			D95
C/2012 LP$_{26}$	2015 07 11.64678	19 56 53.93	−02 25 32.8	17.6	T	D95
C/2012 LP$_{26}$	2015 07 11.65001	19 56 53.89	−02 25 32.7			D95
C/2012 LP$_{26}$	2015 07 11.65432	19 56 53.79	−02 25 33.8			D95
C/2012 LP$_{26}$	2015 07 13.89648	19 56 14.58	−02 31 01.7	18.0	T	K K41
C/2012 LP$_{26}$	2015 07 13.93842	19 56 13.79	−02 31 09.0	17.9	T	K K41
C/2012 LP$_{26}$	2015 07 13.94398	19 56 13.75	−02 31 09.8	18.2	T	K K41
C/2012 LP$_{26}$	2015 07 17.91568	19 55 03.27	−02 41 36.2	16.7	N	K C95
C/2012 LP$_{26}$	2015 07 17.94739	19 55 02.71	−02 41 41.6	17.5	N	K C95
C/2012 LP$_{26}$	2015 07 17.97116	19 55 02.30	−02 41 44.8	19.0	N	K C95
C/2012 LP$_{26}$	2015 07 23.96747	19 53 15.10	−02 59 14.6	18.4	N	9 G40
C/2012 LP$_{26}$	2015 07 24.01613	19 53 14.23	−02 59 23.2	18.3	N	9 G40
C/2012 LP$_{26}$	2015 07 24.06457	19 53 13.32	−02 59 32.4	18.4	N	9 G40
C/2012 LP$_{26}$	2015 07 24.11329	19 53 12.44	−02 59 41.6	18.4	N	9 G40

C/2012 LP_{26}	2015 08 05.85513	19 49 34.88	−03 42 45.7	18.1	N	A71
C/2012 LP_{26}	2015 08 05.85935	19 49 34.81	−03 42 46.7	17.9	N	A71
C/2012 LP_{26}	2015 08 05.86358	19 49 34.76	−03 42 47.7	18.3	N	A71
C/2012 LP_{26}	2015 08 07.45491	19 49 09.61	−03 48 35.4	17.1	N	Q68
C/2012 LP_{26}	2015 08 07.50836	19 49 08.68	−03 48 47.4	17.5	N	Q68
C/2012 LP_{26}	2015 08 08.40421	19 48 54.84	−03 52 07.0	17.8	N	Q68
C/2012 LP_{26}	2015 08 08.50257	19 48 53.33	−03 52 29.3	17.9	N	Q68
C/2012 LP_{26}	2015 08 08.83832	19 48 48.18	−03 53 46.6	18.8	N	K A71
C/2012 LP_{26}	2015 08 08.84537	19 48 48.05	−03 53 48.3	17.8	N	K A71
C/2012 LP_{26}	2015 08 10.38911	19 48 24.79	−03 59 34.6	17.7	N	Q68
C/2012 LP_{26}	2015 08 10.48609	19 48 23.31	−03 59 57.2	17.9	N	Q68
C/2012 LP_{26}	2015 08 16.50133	19 46 59.68	−04 23 16.7	17.3	N	Q68
C/2012 LP_{26}	2015 08 16.62398	19 46 58.11	−04 23 46.0	17.9	N	Q68
C/2012 LP_{26}	2015 08 19.58686	19 46 21.45	−04 35 34.1	18.4	N	Q68
C/2012 LP_{26}	2015 08 19.64660	19 46 20.83	−04 35 47.2	17.8	N	Q68

C/2012 U1 (PANSTARRS)

C/2012 U1	2015 06 10.87684	10 46 49.26	+62 20 22.2	18.5	N	K 585
C/2012 U1	2015 06 10.87755	10 46 49.29	+62 20 21.1	18.5	N	K 585
C/2012 U1	2015 06 10.87826	10 46 49.34	+62 20 20.7	18.8	N	K 585
C/2012 U1	2015 06 10.87897	10 46 49.38	+62 20 20.5	18.6	N	K 585
C/2012 U1	2015 06 10.87968	10 46 49.44	+62 20 20.0	18.4	N	K 585
C/2012 U1	2015 07 10.93935	11 11 49.58	+56 32 25.4	18.6	T	K 215
C/2012 U1	2015 07 10.94129	11 11 49.72	+56 32 23.9	19.1	T	K 215
C/2012 U1	2015 07 10.94324	11 11 49.92	+56 32 21.8	19.8	T	K 215

C/2013 A1 (Siding Spring)

C/2013 A1	2015 03 12.08468	17 47 55.73	+32 45 04.3	15.6	N	K B75
C/2013 A1	2015 03 12.08565	17 47 55.72	+32 45 04.5	15.8	N	K B75
C/2013 A1	2015 03 12.08648	17 47 55.71	+32 45 04.7	16.1	N	K B75
C/2013 A1	2015 05 27.90392	13 34 34.41	+54 52 29.1	15.8	N	K C95
C/2013 A1	2015 05 27.92827	13 34 30.83	+54 52 14.5	16.2	N	K C95
C/2013 A1	2015 05 27.95262	13 34 26.95	+54 51 56.3	16.4	N	K C95
C/2013 A1	2015 06 05.92347	13 14 06.87	+53 00 08.9	15.7	T	17 I89
C/2013 A1	2015 06 05.92450	13 14 06.80	+53 00 08.3	16.7	N	17 I89
C/2013 A1	2015 06 29.93313	12 45 25.57	+47 30 33.3	16.9	N	C23
C/2013 A1	2015 06 29.93763	12 45 25.41	+47 30 30.1	16.7	N	C23
C/2013 A1	2015 06 29.94287	12 45 25.13	+47 30 26.1	16.9	N	C23
C/2013 A1	2015 06 30.91017	12 44 50.25	+47 17 34.3	17.1	N	B96
C/2013 A1	2015 06 30.91515	12 44 50.09	+47 17 29.9	17.2	N	B96
C/2013 A1	2015 06 30.91847	12 44 49.94	+47 17 27.0	17.2	N	B96
C/2013 A1	2015 06 30.92178	12 44 49.81	+47 17 24.5	17.2	N	B96
C/2013 A1	2015 06 30.92510	12 44 49.74	+47 17 21.4	17.3	N	B96
C/2013 A1	2015 07 01.91914	12 44 16.00	+47 04 11.5	17.1	T	K 215
C/2013 A1	2015 07 01.92041	12 44 15.96	+47 04 10.3	17.4	T	K 215
C/2013 A1	2015 07 01.92169	12 44 15.92	+47 04 08.9	17.2	T	K 215
C/2013 A1	2015 07 02.89082	12 43 45.03	+46 51 24.8	16.9	N	B82
C/2013 A1	2015 07 02.89960	12 43 44.74	+46 51 18.0	17.0	N	B82
C/2013 A1	2015 07 02.92174	12 43 44.11	+46 51 00.3	16.9	N	B82
C/2013 A1	2015 07 03.89179	12 43 15.22	+46 38 19.8	16.9	N	B82
C/2013 A1	2015 07 03.90274	12 43 14.90	+46 38 11.2	16.8	N	B82
C/2013 A1	2015 07 03.90931	12 43 14.69	+46 38 06.3	16.9	N	B82
C/2013 A1	2015 07 03.92243	12 43 14.30	+46 37 55.8	17.0	N	B82
C/2013 A1	2015 07 03.92462	12 43 14.26	+46 37 54.2	17.0	N	B82
C/2013 A1	2015 07 04.89347	12 42 47.23	+46 25 18.6	16.7	N	939
C/2013 A1	2015 07 04.90076	12 42 47.00	+46 25 13.8	16.7	N	939
C/2013 A1	2015 07 04.90806	12 42 46.79	+46 25 08.2	16.6	N	939
C/2013 A1	2015 07 06.95069	12 41 55.70	+45 58 53.6	16.9	N	C23
C/2013 A1	2015 07 06.95519	12 41 55.75	+45 58 48.9	17.1	N	C23
C/2013 A1	2015 07 06.95819	12 41 55.64	+45 58 47.7	17.0	N	C23
C/2013 A1	2015 07 08.94021	12 41 13.30	+45 33 41.5	16.9	N	I72
C/2013 A1	2015 07 08.94315	12 41 13.25	+45 33 39.8	17.0	N	I72
C/2013 A1	2015 07 08.94608	12 41 13.21	+45 33 37.1	16.9	N	I72
C/2013 A1	2015 07 10.90048	12 40 38.07	+45 09 14.0	18.6	N	K C47
C/2013 A1	2015 07 10.90380	12 40 38.05	+45 09 11.6	17.3	N	K C47
C/2013 A1	2015 07 10.90712	12 40 38.03	+45 09 09.4	18.2	N	K C47
C/2013 A1	2015 07 10.90971	12 40 37.93	+45 09 06.5	16.4	N	C35
C/2013 A1	2015 07 10.91007	12 40 38.00	+45 09 07.1	18.8	N	K C47
C/2013 A1	2015 07 10.91256	12 40 37.91	+45 09 05.1	16.5	N	C35
C/2013 A1	2015 07 10.91662	12 40 37.81	+45 09 02.4	17.0	N	939
C/2013 A1	2015 07 10.91708	12 40 37.88	+45 09 00.6	18.0	N	K C47
C/2013 A1	2015 07 10.91826	12 40 37.74	+45 09 01.6	16.4	N	C35
C/2013 A1	2015 07 10.92391	12 40 37.72	+45 08 56.8	17.0	N	939
C/2013 A1	2015 07 10.94214	12 40 37.50	+45 08 42.3	17.0	N	939
C/2013 A1	2015 07 11.86196	12 40 23.17	+44 57 22.3			K 595
C/2013 A1	2015 07 11.86685	12 40 23.08	+44 57 19.0	17.8	N	K 595
C/2013 A1	2015 07 11.87302	12 40 23.04	+44 57 15.4	17.0	N	939
C/2013 A1	2015 07 11.88396	12 40 22.87	+44 57 06.8	17.1	N	939
C/2013 A1	2015 07 11.89125	12 40 22.79	+44 57 00.8	17.0	N	939
C/2013 A1	2015 07 11.89144	12 40 22.65	+44 57 01.4	19.1	N	K C47
C/2013 A1	2015 07 11.89513	12 40 22.63	+44 56 58.4	17.3	N	K C47
C/2013 A1	2015 07 11.89882	12 40 22.54	+44 56 55.9	18.7	N	K C47
C/2013 A1	2015 07 11.90251	12 40 22.48	+44 56 52.8	17.5	N	K C47
C/2013 A1	2015 07 11.90620	12 40 22.46	+44 56 50.1	18.5	N	K C47
C/2013 A1	2015 07 11.90989	12 40 22.37	+44 56 47.7	18.8	N	K C47
C/2013 A1	2015 07 11.91211	12 40 22.40	+44 56 45.4	16.9	N	C23
C/2013 A1	2015 07 11.91650	12 40 22.46	+44 56 43.3	16.5	N	C23
C/2013 A1	2015 07 11.92088	12 40 22.23	+44 56 40.4	17.0	N	C23
C/2013 A1	2015 07 12.87832	12 40 08.81	+44 44 57.9	16.3	T	17 I89
C/2013 A1	2015 07 12.87958	12 40 08.88	+44 44 56.7	17.1	N	17 I89
C/2013 A1	2015 07 12.95272	12 40 07.86	+44 44 02.8	17.2	N	I72
C/2013 A1	2015 07 12.95416	12 40 07.77	+44 44 02.1	17.2	N	I72
C/2013 A1	2015 07 12.95561	12 40 07.76	+44 44 00.6	17.1	N	I72
C/2013 A1	2015 07 15.48533	12 39 39.26	+44 13 33.2			K 367
C/2013 A1	2015 07 15.48938	12 39 39.19	+44 13 30.9	17.1	T	K 367
C/2013 A1	2015 07 15.97529	12 39 34.85	+44 07 41.9	17.0	N	K A77
C/2013 A1	2015 07 15.97754	12 39 34.74	+44 07 40.7	17.2	N	K A77
C/2013 A1	2015 07 16.88476	12 39 27.38	+43 56 58.7	17.1	N	939
C/2013 A1	2015 07 16.89205	12 39 27.31	+43 56 53.9	17.0	N	939
C/2013 A1	2015 07 16.89934	12 39 27.23	+43 56 48.7	17.1	N	939
C/2013 A1	2015 07 17.87211	12 39 20.61	+43 45 25.5	17.4	N	B82
C/2013 A1	2015 07 17.87869	12 39 20.62	+43 45 20.4	17.3	N	B82
C/2013 A1	2015 07 17.88088	12 39 20.59	+43 45 19.3	17.3	N	B82
C/2013 A1	2015 07 17.91028	12 39 20.31	+43 44 58.9	17.9	N	K A77
C/2013 A1	2015 07 17.91586	12 39 20.34	+43 44 55.4	17.6	N	K A77
C/2013 A1	2015 07 17.92122	12 39 20.25	+43 44 51.5	17.6	N	K A77
C/2013 A1	2015 07 19.90406	12 39 10.50	+43 21 56.8	16.9	N	C23

C/2013 A1	2015 07 19.90695	12 39 10.55	+43 21 55.0	17.3	N	C23
C/2013 A1	2015 07 19.91273	12 39 10.47	+43 21 50.5	17.3	N	C23
C/2013 A1	2015 07 21.86068	12 39 05.63	+42 59 47.0	18.0	N	K L04
C/2013 A1	2015 07 21.86772	12 39 05.65	+42 59 41.6	17.8	N	K L04
C/2013 A1	2015 07 25.90535	12 39 09.38	+42 15 15.6	17.2	N	K C23
C/2013 A1	2015 07 25.90835	12 39 09.39	+42 15 14.5	17.1	N	K C23
C/2013 A1	2015 07 25.91284	12 39 09.32	+42 15 11.5	17.3	N	K C23
C/2013 A1	2015 08 01.87192	12 39 53.81	+41 02 52.1	17.2	N	K C23
C/2013 A1	2015 08 01.87770	12 39 53.83	+41 02 49.3	17.6	N	K C23
C/2013 A1	2015 08 08.88598	12 41 19.46	+39 55 26.4	17.0	N	B96
C/2013 A1	2015 08 08.88764	12 41 19.54	+39 55 23.7	18.1	N	B96
C/2013 A1	2015 08 08.88929	12 41 19.58	+39 55 24.7	17.8	N	B96
C/2013 A1	2015 08 08.89096	12 41 19.58	+39 55 22.7	17.3	N	B96
C/2013 A1	2015 08 08.89178	12 41 19.38	+39 55 19.7	17.6	N	K C23
C/2013 A1	2015 08 08.89262	12 41 19.42	+39 55 22.5	17.6	N	B96
C/2013 A1	2015 08 08.89755	12 41 19.52	+39 55 17.7	17.1	N	K C23
C/2013 A1	2015 08 08.90622	12 41 19.67	+39 55 13.1	17.7	N	K C23
C/2013 A1	2015 08 19.84312	12 44 38.07	+38 20 55.7	17.4	N	K C23
C/2013 A1	2015 08 19.85178	12 44 38.05	+38 20 50.6	17.7	N	K C23

C/2013 C2 (Tenagra)

C/2013 C2	2015 04 26.56453	12 03 55.73	−21 52 53.4	17.1	T	349
C/2013 C2	2015 04 26.57715	12 03 55.56	−21 52 50.7			349
C/2013 C2	2015 08 08.98754	12 17 50.16	−19 10 34.0	18.6	N	KW96
C/2013 C2	2015 08 08.99819	12 17 50.29	−19 10 34.6	18.6	N	KW96

C/2013 G3 (PANSTARRS)

C/2013 G3	2015 07 08.11302	22 21 07.42	+54 19 25.3	18.1	N	K Z81
C/2013 G3	2015 07 08.12836	22 21 07.30	+54 19 30.1	17.9	N	K Z81
C/2013 G3	2015 07 08.14379	22 21 07.15	+54 19 33.5	17.9	N	K Z81
C/2013 G3	2015 07 09.97082	22 20 55.10	+54 26 44.2	17.8	N	K C23
C/2013 G3	2015 07 09.97509	22 20 54.95	+54 26 44.6	17.9	N	K C23
C/2013 G3	2015 07 10.01157	22 20 54.67	+54 26 54.5	18.7	N	B96
C/2013 G3	2015 07 10.01821	22 20 54.50	+54 26 57.6	19.1	N	B96
C/2013 G3	2015 07 10.02318	22 20 54.45	+54 26 58.7	18.5	N	B96
C/2013 G3	2015 08 19.95502	22 03 45.55	+54 14 54.0	17.8	N	K C23
C/2013 G3	2015 08 19.96079	22 03 45.33	+54 14 50.3	17.8	N	K C23

C/2013 G7 (McNaught)

C/2013 G7	2015 02 28.56276	07 10 33.24	−65 47 19.1			1 Q62
C/2013 G7	2015 02 28.57226	07 10 32.15	−65 47 11.9	18.3	T	1 Q62

C/2013 G8 (PANSTARRS)

C/2013 G8	2015 08 19.97721	01 41 29.16	+29 31 17.1	20.0	N	K C95
C/2013 G8	2015 08 20.04351	01 41 29.02	+29 31 20.3	20.5	N	K C95
C/2013 G8	2015 08 20.10981	01 41 28.89	+29 31 21.8	20.9	N	K C95

C/2013 G9 (Tenagra)

C/2013 G9	2015 05 10.54777	10 58 34.52	−17 59 04.1	16.2	T	D95
C/2013 G9	2015 05 10.55315	10 58 34.27	−17 59 01.4			D95

C/2013 P3 (Palomar)

C/2013 P3	2015 07 23.03054	00 26 57.09	−08 57 57.7	18.7	N	K 461
C/2013 P3	2015 07 23.03747	00 26 57.07	−08 58 00.4	18.7	N	K 461
C/2013 P3	2015 07 23.04441	00 26 57.03	−08 58 02.8	18.7	N	K 461
C/2013 P3	2015 08 09.57240	00 24 18.298	−10 42 58.88	19.3	T	F52
C/2013 P3	2015 08 09.58384	00 24 18.135	−10 43 03.39	19.1	T	F52
C/2013 P3	2015 08 09.59536	00 24 17.987	−10 43 07.82	19.2	T	F52
C/2013 P3	2015 08 09.60686	00 24 17.845	−10 43 12.29	19.1	T	F52
C/2013 P3	2015 08 15.41369	00 22 57.82	−11 20 35.1	18.9	T	G45
C/2013 P3	2015 08 15.41891	00 22 57.72	−11 20 36.1	18.0	T	G45
C/2013 P3	2015 08 15.42985	00 22 57.52	−11 20 40.8	18.1	T	G45
C/2013 P3	2015 08 15.43474	00 22 57.45	−11 20 43.1	17.9	T	G45

C/2013 P4 (PANSTARRS)

C/2013 P4	2015 08 12.44027	03 05 50.77	+20 06 12.8	19.6	T	G45
C/2013 P4	2015 08 12.44687	03 05 50.97	+20 06 15.5	19.3	T	G45
C/2013 P4	2015 08 12.45327	03 05 51.10	+20 06 13.8	18.7	T	G45
C/2013 P4	2015 08 12.45939	03 05 51.24	+20 06 15.1	19.3	T	G45
C/2013 P4	2015 08 12.46624	03 05 51.37	+20 06 14.4	18.8	T	G45
C/2013 P4	2015 08 12.47531	03 05 51.69	+20 06 15.2	19.3	T	G45

C/2013 U2 (Holvorcem)

C/2013 U2	2015 06 10.86321	10 09 18.63	+40 51 21.3	17.0	N	K 585
C/2013 U2	2015 06 10.86392	10 09 18.66	+40 51 20.5	17.0	N	K 585
C/2013 U2	2015 06 10.86463	10 09 18.69	+40 51 20.1	17.0	N	K 585
C/2013 U2	2015 06 10.86534	10 09 18.72	+40 51 19.5	17.0	N	K 585
C/2013 U2	2015 06 13.18456	10 10 45.71	+40 27 10.2			32H06
C/2013 U2	2015 06 13.18657	10 10 45.80	+40 27 09.1			32H06
C/2013 U2	2015 06 13.18857	10 10 45.89	+40 27 07.9	17.8	T	32H06

C/2013 US_{10} (Catalina)

C/2013 US_{10}	2015 06 17.38875	23 56 53.33	−30 10 47.5	13.6	N	3W88
C/2013 US_{10}	2015 06 17.39916	23 56 53.47	−30 11 00.8	13.6	N	3W88
C/2013 US_{10}	2015 06 23.76731	23 57 37.08	−32 39 20.6	10.4	T	349
C/2013 US_{10}	2015 06 23.76880	23 57 37.08	−32 39 23.1			349
C/2013 US_{10}	2015 06 23.77027	23 57 37.09	−32 39 25.4			349
C/2013 US_{10}	2015 06 26.41169	23 57 33.20	−33 50 51.3	13.6	N	G39
C/2013 US_{10}	2015 06 26.41316	23 57 33.17	−33 50 54.4	13.8	N	G39
C/2013 US_{10}	2015 06 26.41462	23 57 33.13	−33 50 56.0	13.7	N	G39
C/2013 US_{10}	2015 06 26.41609	23 57 33.33	−33 50 57.7	14.1	N	G39
C/2013 US_{10}	2015 06 26.41755	23 57 33.20	−33 51 01.1	14.1	N	G39
C/2013 US_{10}	2015 06 26.41902	23 57 33.20	−33 51 04.2	14.2	N	G39
C/2013 US_{10}	2015 06 26.42047	23 57 33.13	−33 51 05.9	14.2	N	G39
C/2013 US_{10}	2015 06 27.41017	23 57 28.17	−34 19 33.4	13.6	N	G39
C/2013 US_{10}	2015 06 27.41167	23 57 28.15	−34 19 36.9	12.8	N	G39
C/2013 US_{10}	2015 06 27.41312	23 57 28.08	−34 19 38.9	13.0	N	G39
C/2013 US_{10}	2015 06 27.41458	23 57 28.12	−34 19 42.0	13.2	N	G39
C/2013 US_{10}	2015 06 27.41604	23 57 28.06	−34 19 44.3	13.0	N	G39
C/2013 US_{10}	2015 06 27.41751	23 57 28.09	−34 19 46.8	12.5	N	G39
C/2013 US_{10}	2015 06 27.42043	23 57 28.03	−34 19 52.1	12.6	N	G39
C/2013 US_{10}	2015 06 28.41028	23 57 20.42	−34 49 17.9	13.8	N	G39
C/2013 US_{10}	2015 06 28.41178	23 57 20.46	−34 49 21.0	12.8	N	G39
C/2013 US_{10}	2015 06 28.41325	23 57 20.43	−34 49 24.1	12.6	N	G39
C/2013 US_{10}	2015 06 28.41472	23 57 20.43	−34 49 26.6	12.8	N	G39
C/2013 US_{10}	2015 06 28.41618	23 57 20.41	−34 49 29.0	12.4	N	G39
C/2013 US_{10}	2015 06 28.41765	23 57 20.40	−34 49 31.8	12.4	N	G39
C/2013 US_{10}	2015 06 28.41911	23 57 20.42	−34 49 36.0	12.1	N	G39
C/2013 US_{10}	2015 06 29.41024	23 57 10.26	−35 20 03.1	12.9	N	G39
C/2013 US_{10}	2015 06 29.41175	23 57 10.16	−35 20 05.7	13.2	N	G39

C/2013 US_{10}	2015 06 29.41322	23 57 10.23	−35 20 09.2	13.2	N	G39
C/2013 US_{10}	2015 06 29.41468	23 57 10.13	−35 20 11.4	13.4	N	G39
C/2013 US_{10}	2015 06 29.41615	23 57 10.12	−35 20 14.0	13.5	N	G39
C/2013 US_{10}	2015 06 29.41760	23 57 10.15	−35 20 16.8	13.5	N	G39
C/2013 US_{10}	2015 06 29.41907	23 57 10.09	−35 20 20.1	13.8	N	G39
C/2013 US_{10}	2015 06 29.42054	23 57 10.11	−35 20 22.8	13.7	N	G39
C/2013 US_{10}	2015 06 30.41022	23 56 57.41	−35 51 49.9	14.1	N	G39
C/2013 US_{10}	2015 06 30.41171	23 56 57.34	−35 51 53.7	12.8	N	G39
C/2013 US_{10}	2015 06 30.41318	23 56 57.31	−35 51 56.5	12.8	N	G39
C/2013 US_{10}	2015 06 30.41464	23 56 57.37	−35 51 59.3	12.8	N	G39
C/2013 US_{10}	2015 06 30.41610	23 56 57.23	−35 52 02.1	12.9	N	G39
C/2013 US_{10}	2015 06 30.41756	23 56 57.21	−35 52 05.0	12.9	N	G39
C/2013 US_{10}	2015 06 30.41903	23 56 57.22	−35 52 07.6	12.9	N	G39
C/2013 US_{10}	2015 06 30.42049	23 56 57.15	−35 52 10.6	13.6	N	G39
C/2013 US_{10}	2015 07 03.41264	23 56 01.26	−37 33 48.9	13.4	N	G39
C/2013 US_{10}	2015 07 03.41410	23 56 01.23	−37 33 52.3	13.5	N	G39
C/2013 US_{10}	2015 07 03.41557	23 56 01.16	−37 33 55.5	13.6	N	G39
C/2013 US_{10}	2015 07 03.41703	23 56 01.14	−37 33 58.8	13.5	N	G39
C/2013 US_{10}	2015 07 03.41850	23 56 01.08	−37 34 01.5	13.4	N	G39
C/2013 US_{10}	2015 07 03.41997	23 56 01.06	−37 34 04.4	13.7	N	G39
C/2013 US_{10}	2015 07 03.42142	23 56 01.02	−37 34 07.9	13.8	N	G39
C/2013 US_{10}	2015 07 03.64685	23 55 56.00	−37 42 11.2	14.6	N	25Q62
C/2013 US_{10}	2015 07 03.64934	23 55 55.89	−37 42 16.3	14.5	N	25Q62
C/2013 US_{10}	2015 07 04.20174	23 55 42.02	−38 02 18.2	13.2	N	3W88
C/2013 US_{10}	2015 07 04.22281	23 55 41.47	−38 03 05.0	13.2	N	3W88
C/2013 US_{10}	2015 07 04.26404	23 55 40.30	−38 04 36.4	13.1	N	3W88
C/2013 US_{10}	2015 07 04.28481	23 55 39.73	−38 05 22.0	13.2	N	3W88
C/2013 US_{10}	2015 07 04.30610	23 55 39.12	−38 06 09.2	13.2	N	3W88
C/2013 US_{10}	2015 07 04.32646	23 55 38.54	−38 06 54.9	13.3	N	3W88
C/2013 US_{10}	2015 07 05.41243	23 55 07.04	−38 47 34.0	13.6	N	G39
C/2013 US_{10}	2015 07 05.41390	23 55 07.00	−38 47 37.6	13.6	N	G39
C/2013 US_{10}	2015 07 05.41536	23 55 06.98	−38 47 41.2	13.5	N	G39
C/2013 US_{10}	2015 07 05.41683	23 55 06.89	−38 47 44.0	13.6	N	G39
C/2013 US_{10}	2015 07 05.41829	23 55 06.88	−38 47 47.5	13.6	N	G39
C/2013 US_{10}	2015 07 05.41976	23 55 06.81	−38 47 50.9	13.6	N	G39
C/2013 US_{10}	2015 07 05.42122	23 55 06.75	−38 47 54.3	13.6	N	G39
C/2013 US_{10}	2015 07 05.43764	23 55 06.64	−38 48 29.2	13.4	N	K E94
C/2013 US_{10}	2015 07 05.48695	23 55 05.17	−38 50 20.8	13.5	N	K E94
C/2013 US_{10}	2015 07 05.52456	23 55 04.00	−38 51 46.4	13.5	N	K E94
C/2013 US_{10}	2015 07 08.22625	23 53 24.12	−40 39 45.1	12.1	N	I39
C/2013 US_{10}	2015 07 08.23755	23 53 23.62	−40 40 13.5	12.2	N	I39
C/2013 US_{10}	2015 07 08.25221	23 53 22.98	−40 40 50.5	12.1	N	I39
C/2013 US_{10}	2015 07 08.41250	23 53 15.63	−40 47 34.6	13.5	N	G39
C/2013 US_{10}	2015 07 08.41397	23 53 15.60	−40 47 38.9	13.5	N	G39
C/2013 US_{10}	2015 07 08.41543	23 53 15.52	−40 47 42.4	13.5	N	G39
C/2013 US_{10}	2015 07 08.41690	23 53 15.44	−40 47 45.9	13.5	N	G39
C/2013 US_{10}	2015 07 08.41836	23 53 15.36	−40 47 49.5	13.5	N	G39
C/2013 US_{10}	2015 07 08.41981	23 53 15.28	−40 47 53.0	13.5	N	G39
C/2013 US_{10}	2015 07 08.42128	23 53 15.25	−40 47 57.3	13.5	N	G39
C/2013 US_{10}	2015 07 09.22764	23 52 38.56	−41 22 11.9	12.8	N	I39
C/2013 US_{10}	2015 07 09.25637	23 52 37.18	−41 23 26.4	12.8	N	I39
C/2013 US_{10}	2015 07 09.28344	23 52 35.83	−41 24 36.8	12.7	N	I39
C/2013 US_{10}	2015 07 09.28978	23 52 35.57	−41 24 54.8	12.4	N	W96
C/2013 US_{10}	2015 07 09.31183	23 52 34.44	−41 25 51.9	12.4	N	W96
C/2013 US_{10}	2015 07 09.41248	23 52 29.18	−41 30 12.4	13.3	N	G39
C/2013 US_{10}	2015 07 09.41395	23 52 29.11	−41 30 16.7	13.3	N	G39
C/2013 US_{10}	2015 07 09.41541	23 52 29.01	−41 30 19.7	13.4	N	G39
C/2013 US_{10}	2015 07 09.41688	23 52 28.98	−41 30 24.0	13.4	N	G39
C/2013 US_{10}	2015 07 09.41834	23 52 28.88	−41 30 28.0	13.4	N	G39
C/2013 US_{10}	2015 07 09.41980	23 52 28.79	−41 30 31.8	13.3	N	G39
C/2013 US_{10}	2015 07 10.41252	23 51 37.68	−42 14 12.9	13.3	N	G39
C/2013 US_{10}	2015 07 10.41399	23 51 37.54	−42 14 16.3	13.3	N	G39
C/2013 US_{10}	2015 07 10.41545	23 51 37.48	−42 14 20.8	13.2	N	G39
C/2013 US_{10}	2015 07 10.41692	23 51 37.38	−42 14 24.4	13.3	N	G39
C/2013 US_{10}	2015 07 10.41838	23 51 37.30	−42 14 28.1	13.3	N	G39
C/2013 US_{10}	2015 07 10.41984	23 51 37.22	−42 14 32.5	13.1	N	G39
C/2013 US_{10}	2015 07 10.42131	23 51 37.13	−42 14 36.4	13.1	N	G39
C/2013 US_{10}	2015 07 14.59716	23 46 55.156	−45 33 45.02	13.6	T	F51
C/2013 US_{10}	2015 07 14.60230	23 46 54.751	−45 34 00.78	13.4	T	F51
C/2013 US_{10}	2015 07 14.60731	23 46 54.312	−45 34 15.95	13.4	T	F51
C/2013 US_{10}	2015 07 14.75278	23 46 42.33	−45 41 40.0	9.5	T	372
C/2013 US_{10}	2015 07 14.76007	23 46 41.68	−45 42 02.0			372
C/2013 US_{10}	2015 07 15.27227	23 45 57.89	−46 08 14.9	11.7	N	I39
C/2013 US_{10}	2015 07 15.28638	23 45 56.64	−46 08 58.9	11.7	N	I39
C/2013 US_{10}	2015 07 15.30944	23 45 54.49	−46 10 10.6	11.8	N	I39
C/2013 US_{10}	2015 07 17.26154	23 42 45.91	−47 54 04.2	12.5	N	W96
C/2013 US_{10}	2015 07 17.27749	23 42 44.19	−47 54 56.5	12.5	N	W96
C/2013 US_{10}	2015 07 17.29371	23 42 42.42	−47 55 49.8	12.5	N	W96
C/2013 US_{10}	2015 07 18.24402	23 40 56.80	−48 48 25.6	12.1	N	I39
C/2013 US_{10}	2015 07 18.25439	23 40 55.34	−48 49 03.3	11.9	N	I39
C/2013 US_{10}	2015 07 18.26181	23 40 54.56	−48 49 26.1	12.0	N	I39
C/2013 US_{10}	2015 07 19.58026	23 38 11.78	−50 04 44.0	11.9	N	30D90
C/2013 US_{10}	2015 07 19.58432	23 38 11.28	−50 04 58.1	11.9	N	30D90
C/2013 US_{10}	2015 07 19.58836	23 38 10.72	−50 05 12.1	11.9	N	30D90
C/2013 US_{10}	2015 07 20.82160	23 35 17.67	−51 17 57.4	11.6	N	15Q62
C/2013 US_{10}	2015 07 20.82315	23 35 17.40	−51 18 03.0			15Q62
C/2013 US_{10}	2015 07 21.40959	23 33 48.27	−51 53 23.8	13.1	N	G39
C/2013 US_{10}	2015 07 21.41403	23 33 47.58	−51 53 40.0	12.8	N	G39
C/2013 US_{10}	2015 07 21.41988	23 33 46.64	−51 54 00.7	12.8	N	G39
C/2013 US_{10}	2015 07 22.52730	23 30 45.04	−53 01 57.7	11.5	N	30D90
C/2013 US_{10}	2015 07 22.53021	23 30 44.56	−53 02 08.9	11.5	N	30D90
C/2013 US_{10}	2015 07 22.53117	23 30 44.39	−53 02 12.5	11.5	N	30D90
C/2013 US_{10}	2015 07 23.41350	23 28 03.55	−53 57 37.3	12.7	N	G39
C/2013 US_{10}	2015 07 23.41655	23 28 02.99	−53 57 49.3	12.8	N	G39
C/2013 US_{10}	2015 07 23.42036	23 28 02.27	−53 58 03.7	12.8	N	G39
C/2013 US_{10}	2015 07 24.34914	23 24 58.82	−54 57 22.9	12.0	N	W96
C/2013 US_{10}	2015 07 24.37557	23 24 53.21	−54 59 04.8	12.0	N	W96
C/2013 US_{10}	2015 07 25.41345	23 21 06.75	−56 06 32.6	13.0	N	G39
C/2013 US_{10}	2015 07 25.41652	23 21 06.06	−56 06 44.6	12.9	N	G39
C/2013 US_{10}	2015 07 25.42035	23 21 05.19	−56 06 59.1	13.0	N	G39
C/2013 US_{10}	2015 07 26.41351	23 17 05.87	−57 12 37.9	12.5	N	G39
C/2013 US_{10}	2015 07 26.41735	23 17 04.82	−57 12 53.8	12.9	N	G39
C/2013 US_{10}	2015 07 26.42043	23 17 04.04	−57 13 05.6	12.8	N	G39
C/2013 US_{10}	2015 07 26.43413	23 17 00.80	−57 13 57.6	11.9	N	K I47
C/2013 US_{10}	2015 07 26.43578	23 17 00.39	−57 14 04.1	12.1	N	K I47
C/2013 US_{10}	2015 07 26.44074	23 16 59.14	−57 14 23.7	12.1	N	K I47

C/2013 US_{10}	2015 07 26.44494	23 16 57.97	−57 14 40.6	11.8	N	K I47
C/2013 US_{10}	2015 07 26.44569	23 16 57.80	−57 14 43.2	11.9	N	K I47
C/2013 US_{10}	2015 07 26.53932	23 16 35.16	−57 20 56.2	11.9	N	30D90
C/2013 US_{10}	2015 07 26.54130	23 16 34.67	−57 21 04.3	11.9	N	30D90
C/2013 US_{10}	2015 07 26.54329	23 16 34.13	−57 21 12.3	11.9	N	30D90
C/2013 US_{10}	2015 07 27.41618	23 12 39.17	−58 19 42.9	13.1	N	G39
C/2013 US_{10}	2015 07 27.41926	23 12 38.38	−58 19 54.8	13.2	N	G39
C/2013 US_{10}	2015 07 27.42310	23 12 37.24	−58 20 10.3	12.8	N	G39
C/2013 US_{10}	2015 07 27.48961	23 12 20.14	−58 24 37.2	12.0	N	30D90
C/2013 US_{10}	2015 07 27.49160	23 12 19.59	−58 24 45.3	12.0	N	30D90
C/2013 US_{10}	2015 07 27.49356	23 12 18.97	−58 24 53.5	12.0	N	30D90
C/2013 US_{10}	2015 07 27.49903	23 12 17.51	−58 25 16.2	11.1	N	; Q62
C/2013 US_{10}	2015 07 27.49994	23 12 17.17	−58 25 19.7	11.1	N	; Q62
C/2013 US_{10}	2015 07 27.50091	23 12 16.89	−58 25 23.1	11.1	N	; Q62
C/2013 US_{10}	2015 07 27.50199	23 12 16.61	−58 25 27.3	9.9	T	; Q62
C/2013 US_{10}	2015 07 27.50291	23 12 16.33	−58 25 32.0	11.0	N	; Q62
C/2013 US_{10}	2015 07 28.41898	23 07 44.61	−59 27 36.7	13.0	N	G39
C/2013 US_{10}	2015 07 28.42205	23 07 43.68	−59 27 49.2	12.8	N	G39
C/2013 US_{10}	2015 07 28.42589	23 07 42.48	−59 28 04.1	13.1	N	G39
C/2013 US_{10}	2015 07 28.68176	23 06 23.03	−59 45 30.3	11.8	N	31Q62
C/2013 US_{10}	2015 07 28.68260	23 06 22.76	−59 45 33.8	11.8	N	31Q62
C/2013 US_{10}	2015 07 28.68345	23 06 22.48	−59 45 37.3	11.8	N	31Q62
C/2013 US_{10}	2015 07 29.41277	23 02 21.34	−60 35 23.9	13.2	N	G39
C/2013 US_{10}	2015 07 29.41662	23 02 20.09	−60 35 39.4	12.7	N	G39
C/2013 US_{10}	2015 07 29.41970	23 02 19.00	−60 35 52.0	13.3	N	G39
C/2013 US_{10}	2015 07 30.41219	22 56 21.09	−61 43 50.3	13.0	N	G39
C/2013 US_{10}	2015 07 30.41527	22 56 19.92	−61 44 03.1	13.0	N	G39
C/2013 US_{10}	2015 07 30.41834	22 56 18.76	−61 44 15.6	13.0	N	G39
C/2013 US_{10}	2015 07 30.53690	22 55 35.00	−61 52 21.4	13.8	N	25Q62
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C/2013 US_{10}	2015 07 31.42470	22 49 35.79	−62 53 09.1	12.5	N	G39
C/2013 US_{10}	2015 07 31.42778	22 49 34.40	−62 53 22.2	12.5	N	G39
C/2013 US_{10}	2015 07 31.43174	22 49 32.77	−62 53 38.3	12.5	N	G39
C/2013 US_{10}	2015 08 01.42279	22 42 11.47	−64 01 11.1	12.5	N	G39
C/2013 US_{10}	2015 08 01.42626	22 42 09.67	−64 01 24.9	12.9	N	G39
C/2013 US_{10}	2015 08 01.43088	22 42 07.46	−64 01 43.3	12.8	N	G39
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C/2013 US_{10}	2015 08 03.28176	22 26 06.15	−66 05 39.4	12.5	N	G39
C/2013 US_{10}	2015 08 03.28600	22 26 04.07	−66 05 58.9	12.9	N	G39
C/2013 US_{10}	2015 08 03.28984	22 26 01.78	−66 06 13.7	13.1	N	G39
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C/2013 US_{10}	2015 08 05.28417	22 04 44.65	−68 13 19.0	12.1	N	G39
C/2013 US_{10}	2015 08 06.27455	21 52 22.04	−69 12 32.6	12.4	N	G39
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C/2013 US_{10}	2015 08 06.27609	21 52 20.87	−69 12 38.1	12.4	N	G39
C/2013 US_{10}	2015 08 06.27685	21 52 20.29	−69 12 40.3	12.3	N	G39
C/2013 US_{10}	2015 08 06.27762	21 52 19.69	−69 12 43.2	12.3	N	G39
C/2013 US_{10}	2015 08 06.27839	21 52 19.06	−69 12 46.2	12.3	N	G39
C/2013 US_{10}	2015 08 06.27916	21 52 18.47	−69 12 48.9	12.3	N	G39
C/2013 US_{10}	2015 08 06.27992	21 52 17.77	−69 12 51.7	12.4	N	G39
C/2013 US_{10}	2015 08 06.28069	21 52 17.19	−69 12 54.3	12.3	N	G39
C/2013 US_{10}	2015 08 06.28146	21 52 16.59	−69 12 56.9	12.4	N	G39
C/2013 US_{10}	2015 08 06.63315	21 47 34.04	−69 33 08.7	11.8	N	Q68
C/2013 US_{10}	2015 08 06.63528	21 47 32.19	−69 33 15.7	11.8	N	Q68
C/2013 US_{10}	2015 08 06.63905	21 47 29.15	−69 33 28.7	11.8	N	Q68
C/2013 US_{10}	2015 08 06.64126	21 47 27.31	−69 33 36.1	11.8	N	Q68
C/2013 US_{10}	2015 08 07.33833	21 37 34.24	−70 12 10.2	11.4	N	W96
C/2013 US_{10}	2015 08 07.36446	21 37 11.03	−70 13 33.5	11.4	N	W96
C/2013 US_{10}	2015 08 07.52271	21 34 52.22	−70 22 01.1	11.4	N	Q68
C/2013 US_{10}	2015 08 07.52347	21 34 51.57	−70 22 03.6	11.4	N	Q68
C/2013 US_{10}	2015 08 07.52720	21 34 48.20	−70 22 15.0	11.4	N	Q68
C/2013 US_{10}	2015 08 07.52797	21 34 47.47	−70 22 17.7	11.4	N	Q68
C/2013 US_{10}	2015 08 08.14021	21 25 21.61	−70 53 52.1	12.9	N	I66
C/2013 US_{10}	2015 08 08.14240	21 25 19.51	−70 53 58.6	12.9	N	I66
C/2013 US_{10}	2015 08 08.14534	21 25 16.71	−70 54 07.6	12.9	N	I66
C/2013 US_{10}	2015 08 08.14826	21 25 13.91	−70 54 16.1	12.9	N	I66
C/2013 US_{10}	2015 08 08.15046	21 25 11.85	−70 54 22.3	12.9	N	I66
C/2013 US_{10}	2015 08 08.26961	21 23 16.99	−71 00 15.1	12.1	N	G39
C/2013 US_{10}	2015 08 08.27037	21 23 16.12	−71 00 17.7	12.1	N	G39
C/2013 US_{10}	2015 08 08.27113	21 23 15.48	−71 00 20.4	12.0	N	G39
C/2013 US_{10}	2015 08 08.27190	21 23 14.68	−71 00 22.7	12.4	N	G39
C/2013 US_{10}	2015 08 08.27266	21 23 13.98	−71 00 24.9	12.1	N	G39
C/2013 US_{10}	2015 08 08.27344	21 23 13.15	−71 00 26.8	12.1	N	G39
C/2013 US_{10}	2015 08 08.27420	21 23 12.47	−71 00 28.8	12.1	N	G39
C/2013 US_{10}	2015 08 08.27497	21 23 11.72	−71 00 31.3	12.2	N	G39
C/2013 US_{10}	2015 08 08.27573	21 23 11.03	−71 00 33.6	12.1	N	G39
C/2013 US_{10}	2015 08 08.27649	21 23 10.14	−71 00 35.8	12.1	N	G39
C/2013 US_{10}	2015 08 08.49799	21 19 36.59	−71 11 20.5	11.1	N	30D90
C/2013 US_{10}	2015 08 08.49998	21 19 34.74	−71 11 26.0	11.1	N	30D90
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C/2013 US_{10}	2015 08 08.51670	21 19 17.97	−71 12 14.8	11.7	N	Q68
C/2013 US_{10}	2015 08 08.51743	21 19 17.19	−71 12 17.4	11.8	N	Q68
C/2013 US_{10}	2015 08 08.52116	21 19 13.48	−71 12 28.1	11.8	N	Q68
C/2013 US_{10}	2015 08 08.52191	21 19 12.75	−71 12 30.1	11.8	N	Q68
C/2013 US_{10}	2015 08 09.55846	21 01 23.04	−71 59 00.6	11.4	N	31Q62
C/2013 US_{10}	2015 08 09.55938	21 01 22.04	−71 59 02.9	11.4	N	31Q62
C/2013 US_{10}	2015 08 09.56021	21 01 21.14	−71 59 04.9	11.4	N	31Q62
C/2013 US_{10}	2015 08 09.56105	21 01 20.23	−71 59 07.0	11.4	N	31Q62
C/2013 US_{10}	2015 08 10.26414	20 48 19.91	−72 26 41.9	13.0	N	G39
C/2013 US_{10}	2015 08 10.26721	20 48 16.41	−72 26 49.0	12.9	N	G39
C/2013 US_{10}	2015 08 10.27104	20 48 12.17	−72 26 57.0	12.7	N	G39
C/2013 US_{10}	2015 08 10.53529	20 43 09.60	−72 36 25.3	11.7	N	Q68
C/2013 US_{10}	2015 08 10.53601	20 43 08.73	−72 36 26.7	11.8	N	Q68
C/2013 US_{10}	2015 08 10.55434	20 42 47.24	−72 37 04.8	11.8	N	Q68
C/2013 US_{10}	2015 08 10.55508	20 42 46.38	−72 37 06.9	11.7	N	Q68
C/2013 US_{10}	2015 08 10.55878	20 42 42.02	−72 37 14.8	11.7	N	Q68
C/2013 US_{10}	2015 08 10.55951	20 42 41.19	−72 37 15.8	11.7	N	Q68
C/2013 US_{10}	2015 08 11.23676	20 29 15.43	−72 58 58.0	11.9	N	W96
C/2013 US_{10}	2015 08 11.26130	20 28 45.36	−72 59 40.9	12.8	N	G39
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C/2013 US_{10}	2015 08 11.26818	20 28 36.94	−72 59 53.1	12.4	N	G39
C/2013 US_{10}	2015 08 11.27404	20 28 29.81	−73 00 03.0	11.8	N	W96
C/2013 US_{10}	2015 08 11.64226	20 20 57.56	−73 10 13.3	11.9	N	31Q62

C/2013 US_{10}	2015 08 11.64310	20 20 56.49	−73 10 14.6	11.9	N	31Q62
C/2013 US_{10}	2015 08 11.64392	20 20 55.47	−73 10 15.9	11.9	N	31Q62
C/2013 US_{10}	2015 08 12.25854	20 08 00.60	−73 24 43.4	12.2	N	G39
C/2013 US_{10}	2015 08 12.26160	20 07 56.66	−73 24 47.9	12.2	N	G39
C/2013 US_{10}	2015 08 12.26543	20 07 51.79	−73 24 52.3	12.2	N	G39
C/2013 US_{10}	2015 08 12.53962	20 02 00.00	−73 30 15.4	13.2	N	467
C/2013 US_{10}	2015 08 12.54066	20 01 58.70	−73 30 16.5	13.0	N	467
C/2013 US_{10}	2015 08 12.54110	20 01 58.07	−73 30 17.1	13.1	N	467
C/2013 US_{10}	2015 08 12.54154	20 01 57.46	−73 30 17.5	13.1	N	467
C/2013 US_{10}	2015 08 13.25575	19 46 23.87	−73 41 10.6	12.2	N	G39
C/2013 US_{10}	2015 08 13.25882	19 46 19.84	−73 41 12.9	12.4	N	G39
C/2013 US_{10}	2015 08 13.26265	19 46 14.70	−73 41 15.6	12.1	N	G39
C/2013 US_{10}	2015 08 14.25300	19 24 18.39	−73 48 37.3	11.9	N	G39
C/2013 US_{10}	2015 08 14.25606	19 24 14.29	−73 48 38.1	12.0	N	G39
C/2013 US_{10}	2015 08 14.25991	19 24 09.30	−73 48 38.2	12.0	N	G39
C/2013 US_{10}	2015 08 15.25021	19 02 11.13	−73 46 55.5	12.6	N	G39
C/2013 US_{10}	2015 08 15.25328	19 02 06.99	−73 46 54.6	12.4	N	G39
C/2013 US_{10}	2015 08 15.25712	19 02 01.88	−73 46 52.5	12.8	N	G39
C/2013 US_{10}	2015 08 16.63817	18 32 10.22	−73 29 46.5	11.7	N	Q68
C/2013 US_{10}	2015 08 16.63894	18 32 09.28	−73 29 45.7	11.8	N	Q68
C/2013 US_{10}	2015 08 16.64264	18 32 04.49	−73 29 41.8	11.7	N	Q68
C/2013 US_{10}	2015 08 16.64342	18 32 03.62	−73 29 40.6	11.8	N	Q68
C/2013 US_{10}	2015 08 17.24233	18 19 35.06	−73 17 10.9	12.5	N	G39
C/2013 US_{10}	2015 08 17.24397	18 19 35.11	−73 17 12.2	11.6	N	W96
C/2013 US_{10}	2015 08 17.24615	18 19 30.35	−73 17 05.7	12.2	N	G39
C/2013 US_{10}	2015 08 17.24920	18 19 26.50	−73 17 00.7	12.5	N	G39
C/2013 US_{10}	2015 08 17.27019	18 19 02.99	−73 16 33.8	11.6	N	W96
C/2013 US_{10}	2015 08 17.47653	18 14 52.65	−73 11 38.8	13.1	N	467
C/2013 US_{10}	2015 08 17.47696	18 14 52.12	−73 11 38.1	13.1	N	467
C/2013 US_{10}	2015 08 17.47760	18 14 51.34	−73 11 37.2	13.1	N	467
C/2013 US_{10}	2015 08 17.47802	18 14 50.85	−73 11 36.6	13.1	N	467
C/2013 US_{10}	2015 08 18.24192	17 59 47.89	−72 50 20.2	12.0	N	G39
C/2013 US_{10}	2015 08 18.24499	17 59 44.39	−72 50 14.7	11.9	N	G39
C/2013 US_{10}	2015 08 18.24883	17 59 40.04	−72 50 07.5	11.9	N	G39
C/2013 US_{10}	2015 08 19.23917	17 41 21.69	−72 16 37.0	12.3	N	G39
C/2013 US_{10}	2015 08 19.24225	17 41 18.43	−72 16 30.7	12.2	N	G39
C/2013 US_{10}	2015 08 19.24610	17 41 14.34	−72 16 21.5	12.2	N	G39
C/2013 US_{10}	2015 08 19.60868	17 34 54.09	−72 02 33.8	11.5	N	31Q62
C/2013 US_{10}	2015 08 19.60949	17 34 53.28	−72 02 32.1	11.9	N	31Q62
C/2013 US_{10}	2015 08 19.61028	17 34 52.44	−72 02 30.0	11.5	N	31Q62
C/2013 US_{10}	2015 08 20.23645	17 24 22.71	−71 36 56.8	12.9	N	G39
C/2013 US_{10}	2015 08 20.23953	17 24 19.73	−71 36 48.5	12.9	N	G39
C/2013 US_{10}	2015 08 20.24336	17 24 15.95	−71 36 38.7	12.9	N	G39
C/2013 US_{10}	2015 08 20.44087	17 21 05.92	−71 28 15.1	11.7	N	Q68
C/2013 US_{10}	2015 08 20.44162	17 21 05.20	−71 28 13.0	11.8	N	Q68
C/2013 US_{10}	2015 08 20.44532	17 21 01.62	−71 28 03.3	11.8	N	Q68
C/2013 US_{10}	2015 08 20.44607	17 21 00.89	−71 28 01.3	11.8	N	Q68
C/2013 US_{10}	2015 08 21.25312	17 08 34.89	−70 51 20.3	12.4	N	G39
C/2013 US_{10}	2015 08 21.25620	17 08 32.22	−70 51 11.3	12.4	N	G39
C/2013 US_{10}	2015 08 21.26005	17 08 28.85	−70 51 00.1	12.4	N	G39
C/2013 US_{10}	2015 08 21.52558	17 04 36.70	−70 38 23.5	13.3	N	467
C/2013 US_{10}	2015 08 21.52797	17 04 34.52	−70 38 16.3	13.2	N	467
C/2013 US_{10}	2015 08 21.52863	17 04 33.98	−70 38 14.1	13.2	N	467
C/2013 US_{10}	2015 08 22.46559	16 51 42.21	−69 51 34.6	13.9	N	25Q62
C/2013 US_{10}	2015 08 22.46976	16 51 38.91	−69 51 21.9	14.0	N	25Q62
C/2013 US_{10}	2015 08 23.00281	16 44 52.12	−69 23 30.6	11.4	T	Y00
C/2013 US_{10}	2015 08 23.01198	16 44 45.65	−69 23 01.1	11.6	T	Y00
C/2013 US_{10}	2015 08 23.02098	16 44 39.27	−69 22 31.9	11.7	T	Y00
C/2013 US_{10}	2015 08 23.12933	16 43 17.82	−69 16 43.0	12.5	N	K I45
C/2013 US_{10}	2015 08 23.13841	16 43 11.24	−69 16 13.7	12.4	N	K I45
C/2013 US_{10}	2015 08 23.16799	16 42 49.54	−69 14 38.3	10.6	N	I39
C/2013 US_{10}	2015 08 23.17310	16 42 45.80	−69 14 21.7	10.5	N	I39
C/2013 US_{10}	2015 08 23.17819	16 42 42.11	−69 14 05.2	10.6	N	I39
C/2013 US_{10}	2015 08 23.24759	16 41 51.64	−69 10 20.8	12.0	N	G39
C/2013 US_{10}	2015 08 23.25066	16 41 49.47	−69 10 11.1	12.1	N	G39
C/2013 US_{10}	2015 08 23.25450	16 41 46.66	−69 09 58.8	12.2	N	G39
C/2013 US_{10}	2015 08 24.24510	16 30 25.86	−68 15 39.8	12.1	N	G39
C/2013 US_{10}	2015 08 24.24817	16 30 23.91	−68 15 29.4	12.1	N	G39
C/2013 US_{10}	2015 08 24.25200	16 30 21.36	−68 15 16.3	12.0	N	G39
C/2013 US_{10}	2015 08 25.24285	16 20 08.56	−67 19 00.9	12.3	N	G39
C/2013 US_{10}	2015 08 25.24591	16 20 06.93	−67 18 50.6	12.6	N	G39
C/2013 US_{10}	2015 08 25.24898	16 20 05.26	−67 18 40.6	12.3	N	G39
C/2013 US_{10}	2015 08 26.23942	16 10 54.44	−66 21 08.0	12.4	N	G39
C/2013 US_{10}	2015 08 26.24019	16 10 54.11	−66 21 04.6	12.6	N	G39
C/2013 US_{10}	2015 08 26.24095	16 10 53.79	−66 21 02.5	12.5	N	G39
C/2013 US_{10}	2015 08 26.24172	16 10 53.28	−66 20 59.8	12.5	N	G39
C/2013 US_{10}	2015 08 26.24249	16 10 52.86	−66 20 56.9	12.6	N	G39
C/2013 US_{10}	2015 08 26.24325	16 10 52.54	−66 20 54.3	12.6	N	G39
C/2013 US_{10}	2015 08 26.24402	16 10 52.16	−66 20 51.6	12.6	N	G39
C/2013 US_{10}	2015 08 26.24479	16 10 51.72	−66 20 49.0	12.6	N	G39
C/2013 US_{10}	2015 08 26.24556	16 10 51.43	−66 20 46.1	12.6	N	G39
C/2013 US_{10}	2015 08 26.24632	16 10 50.91	−66 20 44.0	12.6	N	G39

C/2013 V1 (Boattini)

C/2013 V1	2015 01 19.53039	16 48 15.69	+06 16 59.4			32H06
C/2013 V1	2015 01 19.53370	16 48 15.82	+06 16 59.1	19.2	T	32H06

C/2013 V2 (Borisov)

C/2013 V2	2015 06 17.89375	12 41 53.89	+21 35 56.4	17.1	N	585
C/2013 V2	2015 06 17.89446	12 41 53.87	+21 35 55.1	17.1	N	585
C/2013 V2	2015 06 17.89658	12 41 53.93	+21 35 53.9	17.2	N	585
C/2013 V2	2015 06 17.89729	12 41 53.99	+21 35 53.2	17.1	N	585
C/2013 V2	2015 06 17.89800	12 41 53.91	+21 35 52.8	17.0	N	585
C/2013 V2	2015 06 17.89871	12 41 53.90	+21 35 52.8	17.1	N	585
C/2013 V2	2015 06 17.89946	12 41 53.99	+21 35 51.7	17.0	N	585
C/2013 V2	2015 06 17.90017	12 41 53.92	+21 35 51.2	17.2	N	585
C/2013 V2	2015 06 17.90160	12 41 54.02	+21 35 50.1	17.3	N	585
C/2013 V2	2015 06 17.90232	12 41 54.03	+21 35 50.4	17.1	N	585
C/2013 V2	2015 06 17.90302	12 41 53.95	+21 35 48.3	17.1	N	585
C/2013 V2	2015 06 17.90446	12 41 54.03	+21 35 47.6	16.9	N	585
C/2013 V2	2015 06 17.90588	12 41 54.04	+21 35 47.0	16.9	N	585
C/2013 V2	2015 06 17.90660	12 41 54.00	+21 35 46.2	17.3	N	585
C/2013 V2	2015 06 19.90212	12 42 22.31	+21 10 48.7	17.5	N	9 G40
C/2013 V2	2015 06 19.90382	12 42 22.33	+21 10 47.6	17.5	N	9 G40
C/2013 V2	2015 06 19.90468	12 42 22.34	+21 10 46.6	17.4	N	9 G40
C/2013 V2	2015 06 19.90644	12 42 22.35	+21 10 45.3	17.1	N	9 G40
C/2013 V2	2015 06 19.91091	12 42 22.40	+21 10 42.1	17.4	N	9 G40

C/2013 V2	2015 06 27.86033	12 44 44.23	+19 31 22.5	18.2	N	K 160
C/2013 V2	2015 06 27.86282	12 44 44.27	+19 31 20.6	18.1	N	K 160
C/2013 V2	2015 06 27.86531	12 44 44.28	+19 31 18.5	18.3	N	K 160
C/2013 V2	2015 06 29.87169	12 45 27.08	+19 06 20.0	17.8	N	K 160
C/2013 V2	2015 06 29.87413	12 45 27.14	+19 06 18.3	18.4	N	K 160
C/2013 V2	2015 06 29.87656	12 45 27.21	+19 06 17.3	18.2	N	K 160
C/2013 V2	2015 06 29.91908	12 45 28.20	+19 05 45.3	17.4	N	K C23
C/2013 V2	2015 06 29.92357	12 45 28.33	+19 05 41.7	17.3	N	K C23
C/2013 V2	2015 06 29.92732	12 45 28.33	+19 05 39.0	17.4	N	K C23
C/2013 V2	2015 06 30.85800	12 45 49.06	+18 54 05.5	17.9	N	K 160
C/2013 V2	2015 06 30.86032	12 45 49.11	+18 54 03.5	17.9	N	K 160
C/2013 V2	2015 06 30.86264	12 45 49.21	+18 54 02.1	17.9	N	K 160
C/2013 V2	2015 07 01.86201	12 46 12.10	+18 41 37.9	17.3	N	K 160
C/2013 V2	2015 07 01.86452	12 46 12.15	+18 41 36.1	17.5	N	K 160
C/2013 V2	2015 07 01.86703	12 46 12.26	+18 41 34.6	17.8	N	K 160
C/2013 V2	2015 07 02.85991	12 46 35.78	+18 29 17.6	17.4	N	K 160
C/2013 V2	2015 07 02.86240	12 46 35.82	+18 29 15.7	17.6	N	K 160
C/2013 V2	2015 07 02.86488	12 46 35.74	+18 29 13.3	17.8	N	K 160
C/2013 V2	2015 07 04.85940	12 47 24.62	+18 04 33.6	18.1	N	K 160
C/2013 V2	2015 07 04.86172	12 47 24.69	+18 04 31.7	17.9	N	K 160
C/2013 V2	2015 07 04.86404	12 47 24.74	+18 04 29.9	17.6	N	K 160
C/2013 V2	2015 07 05.95982	12 47 52.58	+17 50 59.6	17.9	N	9 G40
C/2013 V2	2015 07 05.96607	12 47 52.76	+17 50 54.8	18.1	N	9 G40
C/2013 V2	2015 07 10.84695	12 50 05.58	+16 51 02.1	17.4	N	K 160
C/2013 V2	2015 07 10.84926	12 50 05.61	+16 51 00.2	17.4	N	K 160
C/2013 V2	2015 07 10.85143	12 50 05.61	+16 50 58.1	18.7	N	K 160
C/2013 V2	2015 07 10.89566	12 50 06.87	+16 50 26.2	16.4	N	C23
C/2013 V2	2015 07 10.90065	12 50 07.09	+16 50 21.9	16.3	N	C23
C/2013 V2	2015 07 10.90209	12 50 07.20	+16 50 20.3	16.7	N	C23
C/2013 V2	2015 07 10.93045	12 50 07.92	+16 49 59.9	18.2	T	K 215
C/2013 V2	2015 07 10.93172	12 50 07.95	+16 49 59.0	18.2	T	K 215
C/2013 V2	2015 07 10.93300	12 50 07.95	+16 49 58.5	18.2	T	K 215
C/2013 V2	2015 07 11.84428	12 50 34.33	+16 38 51.5	17.7	N	K 160
C/2013 V2	2015 07 11.84672	12 50 34.37	+16 38 49.1	18.6	N	K 160
C/2013 V2	2015 07 11.84916	12 50 34.42	+16 38 47.1	18.3	N	K 160
C/2013 V2	2015 07 12.84541	12 51 03.76	+16 26 40.1	17.9	N	K 160
C/2013 V2	2015 07 12.84788	12 51 03.83	+16 26 38.3	17.9	N	K 160
C/2013 V2	2015 07 12.85034	12 51 03.91	+16 26 36.5	17.8	N	K 160
C/2013 V2	2015 07 17.83188	12 53 38.26	+15 26 19.7	17.6	N	K 160
C/2013 V2	2015 07 17.83435	12 53 38.35	+15 26 18.2	17.9	N	K 160
C/2013 V2	2015 07 17.83682	12 53 38.43	+15 26 16.0	18.2	N	K 160

C/2013 V4 (Catalina)

C/2013 V4	2015 08 05.76084	05 02 44.81	+50 31 51.9			349
C/2013 V4	2015 08 05.77322	05 02 45.47	+50 31 59.8	15.8	T	349
C/2013 V4	2015 08 17.02442	05 12 18.17	+52 31 40.5	16.2	N	I81
C/2013 V4	2015 08 17.03065	05 12 18.42	+52 31 43.6	16.3	N	I81
C/2013 V4	2015 08 17.03494	05 12 18.66	+52 31 47.0	16.3	N	I81
C/2013 V4	2015 08 18.20560	05 13 15.54	+52 44 40.0	16.2	N	J22
C/2013 V4	2015 08 18.21006	05 13 15.70	+52 44 43.2	16.2	N	J22
C/2013 V4	2015 08 18.21448	05 13 16.10	+52 44 46.5	16.2	N	J22
C/2013 V4	2015 08 22.07916	05 16 19.08	+53 27 47.4	16.5	N	C23
C/2013 V4	2015 08 22.08216	05 16 19.33	+53 27 49.4	16.6	N	C23
C/2013 V4	2015 08 22.08515	05 16 19.43	+53 27 52.0	16.4	N	C23
C/2013 V4	2015 08 26.02099	05 19 18.42	+54 12 34.3	16.9	N	K K61
C/2013 V4	2015 08 26.02269	05 19 18.56	+54 12 35.4	16.5	N	K K61
C/2013 V4	2015 08 26.03152	05 19 18.98	+54 12 41.1	16.3	N	I81
C/2013 V4	2015 08 26.03751	05 19 19.24	+54 12 45.5	16.5	N	I81
C/2013 V4	2015 08 26.04181	05 19 19.44	+54 12 48.7	16.5	N	I81

C/2013 X1 (PANSTARRS)

C/2013 X1	2015 07 25.78281	05 34 09.05	+35 02 24.5			K 367
C/2013 X1	2015 07 25.78403	05 34 09.08	+35 02 24.6			K 367
C/2013 X1	2015 07 25.78565	05 34 09.11	+35 02 24.9	14.3	T	K 367
C/2013 X1	2015 07 27.45286	05 34 56.63	+35 06 56.7			32H06
C/2013 X1	2015 07 27.45446	05 34 56.65	+35 06 57.1			32H06
C/2013 X1	2015 07 27.45606	05 34 56.72	+35 06 57.2	14.0	T	32H06
C/2013 X1	2015 08 01.19675	05 37 06.00	+35 20 39.6	15.5	N	9 G40
C/2013 X1	2015 08 01.19929	05 37 06.07	+35 20 39.9	15.5	N	9 G40
C/2013 X1	2015 08 01.20108	05 37 06.12	+35 20 40.3	15.5	N	9 G40
C/2013 X1	2015 08 01.20612	05 37 06.23	+35 20 41.1	15.4	N	9 G40
C/2013 X1	2015 08 01.20788	05 37 06.27	+35 20 41.4	15.5	N	9 G40
C/2013 X1	2015 08 03.06907	05 37 54.46	+35 26 23.3	14.8	N	C10
C/2013 X1	2015 08 03.09138	05 37 54.96	+35 26 27.5	14.8	N	C10
C/2013 X1	2015 08 03.47155	05 38 04.55	+35 27 38.5	15.9	N	15U69
C/2013 X1	2015 08 03.47278	05 38 04.61	+35 27 38.8	15.8	N	15U69
C/2013 X1	2015 08 03.47362	05 38 04.66	+35 27 39.3	15.9	N	15U69
C/2013 X1	2015 08 03.47470	05 38 04.68	+35 27 39.4	15.8	N	15U69
C/2013 X1	2015 08 03.47568	05 38 04.69	+35 27 39.8	15.9	N	15U69
C/2013 X1	2015 08 05.73781	05 39 00.58	+35 34 55.2	14.1	T	349
C/2013 X1	2015 08 05.74507	05 39 00.75	+35 34 56.8			349
C/2013 X1	2015 08 06.00679	05 39 06.86	+35 35 46.9	14.7	N	C36
C/2013 X1	2015 08 06.01032	05 39 07.05	+35 35 48.5	14.9	N	C36
C/2013 X1	2015 08 06.01297	05 39 07.11	+35 35 49.6	14.7	N	C36
C/2013 X1	2015 08 06.01829	05 39 07.26	+35 35 50.5	14.5	N	C36
C/2013 X1	2015 08 06.01917	05 39 07.29	+35 35 50.1	14.5	N	C36
C/2013 X1	2015 08 06.02005	05 39 07.30	+35 35 51.0	14.5	N	C36
C/2013 X1	2015 08 11.05388	05 41 00.70	+35 53 08.6			461
C/2013 X1	2015 08 11.06037	05 41 00.86	+35 53 10.4	15.2	T	461
C/2013 X1	2015 08 12.07728	05 41 21.88	+35 56 51.9	16.1	N	461
C/2013 X1	2015 08 12.08051	05 41 21.95	+35 56 52.6	16.1	N	461
C/2013 X1	2015 08 12.08374	05 41 21.99	+35 56 53.6	16.3	N	461
C/2013 X1	2015 08 20.06219	05 43 41.39	+36 28 26.7	15.7	N	C23
C/2013 X1	2015 08 20.06519	05 43 41.30	+36 28 27.1	14.8	N	C23
C/2013 X1	2015 08 20.06819	05 43 41.32	+36 28 27.3	15.5	N	C23
C/2013 X1	2015 08 22.06638	05 44 08.05	+36 37 06.7	16.2	N	B96
C/2013 X1	2015 08 22.06970	05 44 08.08	+36 37 07.2	16.0	N	B96
C/2013 X1	2015 08 22.07301	05 44 08.17	+36 37 09.3	16.3	N	B96
C/2013 X1	2015 08 23.06652	05 44 20.07	+36 41 34.7	16.0	N	B96
C/2013 X1	2015 08 23.06983	05 44 20.07	+36 41 34.7	16.2	N	B96
C/2013 X1	2015 08 23.07315	05 44 20.12	+36 41 36.0	16.2	N	B96
C/2013 X1	2015 08 25.99622	05 44 49.51	+36 55 07.3	14.5	N	C36
C/2013 X1	2015 08 25.99867	05 44 49.52	+36 55 07.1	14.5	N	C36
C/2013 X1	2015 08 26.00111	05 44 49.54	+36 55 07.5	14.5	N	C36
C/2013 X1	2015 08 26.00356	05 44 49.61	+36 55 09.9	14.2	N	C36
C/2013 X1	2015 08 26.00601	05 44 49.63	+36 55 09.5	14.6	N	C36

C/2013 X1	2015 08 26.00931	05 44 49.62	+36 55 09.6	15.3	N	K K61
C/2013 X1	2015 08 26.01017	05 44 49.65	+36 55 09.4	15.9	N	K K61
C/2013 X1	2015 08 26.01281	05 44 49.67	+36 55 09.8	16.0	N	K K61
C/2013 X1	2015 08 26.05624	05 44 50.06	+36 55 23.6	14.9	N	I81
C/2013 X1	2015 08 26.06161	05 44 50.12	+36 55 25.2	14.7	N	I81
C/2013 X1	2015 08 26.06376	05 44 50.13	+36 55 25.8	14.8	N	I81
C/2013 X1	2015 08 26.78791	05 44 55.99	+36 58 54.8			K 367
C/2013 X1	2015 08 26.78953	05 44 56.01	+36 58 55.2			K 367
C/2013 X1	2015 08 26.79074	05 44 56.01	+36 58 55.6	13.7	T	K 367

C/2014 A4 (SONEAR)

C/2014 A4	2015 07 10.37878	03 14 59.96	+07 59 19.6	16.5	N	W96
C/2014 A4	2015 07 10.40007	03 15 00.03	+07 59 27.7	16.9	N	W96
C/2014 A4	2015 07 12.09998	03 15 00.64	+08 09 09.2	16.5	N	K 160
C/2014 A4	2015 07 12.10202	03 15 00.63	+08 09 09.5	17.4	N	K 160
C/2014 A4	2015 07 12.10392	03 15 00.63	+08 09 09.8	17.3	N	K 160
C/2014 A4	2015 07 19.81101	03 14 36.75	+08 52 25.4	16.3	N	30D90
C/2014 A4	2015 07 19.81576	03 14 36.75	+08 52 26.7	16.3	N	30D90
C/2014 A4	2015 07 19.82052	03 14 36.74	+08 52 28.0	16.3	N	30D90
C/2014 A4	2015 07 21.11639	03 14 28.10	+08 59 33.7	16.6	N	K 160
C/2014 A4	2015 07 21.11871	03 14 28.09	+08 59 34.4	16.5	N	K 160
C/2014 A4	2015 07 21.12076	03 14 28.11	+08 59 35.3	16.5	N	K 160
C/2014 A4	2015 07 25.33974	03 13 49.81	+09 22 34.4	17.1	T	Y00
C/2014 A4	2015 07 25.35325	03 13 49.63	+09 22 39.0	17.1	T	Y00
C/2014 A4	2015 07 25.36655	03 13 49.48	+09 22 43.5	16.9	T	Y00
C/2014 A4	2015 07 26.78059	03 13 33.06	+09 30 21.7	16.3	N	30D90
C/2014 A4	2015 07 26.78534	03 13 33.01	+09 30 23.0	16.3	N	30D90
C/2014 A4	2015 07 26.79009	03 13 32.97	+09 30 24.4	16.3	N	30D90
C/2014 A4	2015 07 27.34011	03 13 26.04	+09 33 20.2	17.0	T	Y00
C/2014 A4	2015 07 27.35338	03 13 25.87	+09 33 24.3	16.9	T	Y00
C/2014 A4	2015 07 27.36653	03 13 25.66	+09 33 27.8	17.0	T	Y00
C/2014 A4	2015 08 03.32937	03 11 32.18	+10 10 17.7	16.4	N	W96
C/2014 A4	2015 08 03.35952	03 11 31.52	+10 10 26.3	16.0	N	W96
C/2014 A4	2015 08 07.77220	03 09 52.80	+10 33 16.5	16.5	N	Q68
C/2014 A4	2015 08 07.78978	03 09 52.33	+10 33 21.8	16.4	N	Q68
C/2014 A4	2015 08 09.74293	03 09 01.45	+10 43 20.6	16.3	N	30D90
C/2014 A4	2015 08 09.74529	03 09 01.40	+10 43 21.5	16.3	N	30D90
C/2014 A4	2015 08 09.74764	03 09 01.34	+10 43 21.7	16.3	N	30D90
C/2014 A4	2015 08 10.76370	03 08 33.03	+10 48 31.0	16.4	N	Q68
C/2014 A4	2015 08 10.77809	03 08 32.59	+10 48 35.5	16.4	N	Q68
C/2014 A4	2015 08 12.12422	03 07 53.19	+10 55 21.0	17.2	N	K 160
C/2014 A4	2015 08 12.12662	03 07 53.11	+10 55 21.7	17.2	N	K 160
C/2014 A4	2015 08 12.12901	03 07 53.00	+10 55 22.0	17.4	N	K 160
C/2014 A4	2015 08 13.05678	03 07 24.54	+11 00 00.8	17.0	N	K 215
C/2014 A4	2015 08 13.05806	03 07 24.46	+11 00 01.2	17.0	N	K 215
C/2014 A4	2015 08 13.05934	03 07 24.42	+11 00 01.6	17.0	N	K 215
C/2014 A4	2015 08 13.10503	03 07 23.05	+11 00 16.3	17.3	N	K 160
C/2014 A4	2015 08 13.10738	03 07 22.97	+11 00 17.0	17.3	N	K 160
C/2014 A4	2015 08 13.10973	03 07 22.88	+11 00 17.6	17.3	N	K 160
C/2014 A4	2015 08 13.43123	03 07 12.68	+11 01 53.8	16.3	N	H47
C/2014 A4	2015 08 13.43729	03 07 12.48	+11 01 55.8	16.5	N	H47
C/2014 A4	2015 08 13.44175	03 07 12.32	+11 01 57.1	16.5	N	H47
C/2014 A4	2015 08 19.79708	03 03 23.60	+11 33 20.1	16.4	N	Q68
C/2014 A4	2015 08 19.79958	03 03 23.46	+11 33 21.2	16.2	N	Q68
C/2014 A4	2015 08 24.07115	03 00 18.60	+11 53 46.3	15.8	N	I81
C/2014 A4	2015 08 24.07652	03 00 18.34	+11 53 48.0	15.9	N	I81
C/2014 A4	2015 08 24.08081	03 00 18.16	+11 53 49.5	16.0	N	I81
C/2014 A4	2015 08 24.97164	02 59 36.28	+11 58 03.4	16.1	N	C36
C/2014 A4	2015 08 24.97286	02 59 36.21	+11 58 03.6	15.8	N	C36
C/2014 A4	2015 08 24.97409	02 59 36.18	+11 58 04.9	16.3	N	C36
C/2014 A4	2015 08 24.97531	02 59 36.10	+11 58 05.2	16.5	N	C36
C/2014 A4	2015 08 24.97654	02 59 36.04	+11 58 04.8	16.2	N	C36
C/2014 A4	2015 08 24.97775	02 59 35.98	+11 58 05.5	16.2	N	C36
C/2014 A4	2015 08 26.02654	02 58 45.24	+12 03 00.7	16.1	N	K K61
C/2014 A4	2015 08 26.02790	02 58 45.17	+12 03 01.8	16.4	N	K K61
C/2014 A4	2015 08 26.11263	02 58 40.94	+12 03 24.8	15.5	N	I81
C/2014 A4	2015 08 26.11429	02 58 40.86	+12 03 25.9	15.5	N	I81
C/2014 A4	2015 08 26.11537	02 58 40.81	+12 03 26.0	15.4	N	I81
C/2014 A4	2015 08 26.11644	02 58 40.76	+12 03 26.8	15.4	N	I81

C/2014 AA$_{52}$ (Catalina)

C/2014 AA$_{52}$	2015 07 22.13542	23 46 10.98	−14 54 42.6	16.3	T	17 I89
C/2014 AA$_{52}$	2015 07 22.13774	23 46 10.62	−14 54 41.3	18.1	N	17 I89
C/2014 AA$_{52}$	2015 07 23.57234	23 42 40.976	−14 48 41.46	19.0	T	F52
C/2014 AA$_{52}$	2015 07 23.58521	23 42 39.049	−14 48 38.21	19.0	T	F52
C/2014 AA$_{52}$	2015 07 23.61095	23 42 35.213	−14 48 31.81	19.1	T	F52
C/2014 AA$_{52}$	2015 08 05.36383	23 08 02.00	−13 50 26.4	17.3	T	G45
C/2014 AA$_{52}$	2015 08 05.36389	23 08 02.09	−13 50 25.1	17.7	T	G45
C/2014 AA$_{52}$	2015 08 05.36928	23 08 01.10	−13 50 23.0	17.5	T	G45
C/2014 AA$_{52}$	2015 08 05.36935	23 08 01.07	−13 50 24.5	17.0	T	G45
C/2014 AA$_{52}$	2015 08 05.37464	23 08 00.20	−13 50 21.4	17.8	T	G45
C/2014 AA$_{52}$	2015 08 05.37983	23 07 59.25	−13 50 19.8	17.7	T	G45
C/2014 AA$_{52}$	2015 08 06.65389	23 04 16.08	−13 43 43.5	17.8	N	Q68
C/2014 AA$_{52}$	2015 08 06.65966	23 04 15.02	−13 43 42.0	18.0	N	Q68
C/2014 AA$_{52}$	2015 08 07.53484	23 01 40.74	−13 39 06.5	17.7	N	Q68
C/2014 AA$_{52}$	2015 08 07.64972	23 01 20.21	−13 38 30.8	17.6	N	Q68
C/2014 AA$_{52}$	2015 08 08.52904	22 58 44.42	−13 33 49.9	17.8	N	Q68
C/2014 AA$_{52}$	2015 08 08.62258	22 58 27.47	−13 33 20.8	17.8	N	Q68
C/2014 AA$_{52}$	2015 08 08.68117	22 58 17.07	−13 33 04.6	18.2	T	Q60
C/2014 AA$_{52}$	2015 08 08.69061	22 58 15.34	−13 33 02.2	18.3	T	Q60
C/2014 AA$_{52}$	2015 08 08.70007	22 58 13.64	−13 32 58.4	18.2	T	Q60
C/2014 AA$_{52}$	2015 08 09.94028	22 54 32.36	−13 26 17.7	17.8	N	K A71
C/2014 AA$_{52}$	2015 08 09.95518	22 54 29.72	−13 26 12.6	17.5	N	K A71
C/2014 AA$_{52}$	2015 08 10.03367	22 54 15.57	−13 25 47.6	17.5	N	K J01
C/2014 AA$_{52}$	2015 08 10.04313	22 54 13.84	−13 25 43.2	18.7	N	K J01
C/2014 AA$_{52}$	2015 08 10.05140	22 54 12.40	−13 25 40.9	18.8	N	K J01
C/2014 AA$_{52}$	2015 08 10.56691	22 52 40.06	−13 22 44.5	18.1	N	Q68
C/2014 AA$_{52}$	2015 08 10.60014	22 52 34.08	−13 22 33.1	17.7	N	Q68
C/2014 AA$_{52}$	2015 08 12.96135	22 45 29.20	−13 09 16.9	18.6	T	K 215
C/2014 AA$_{52}$	2015 08 12.96263	22 45 28.97	−13 09 16.3	18.6	T	K 215
C/2014 AA$_{52}$	2015 08 12.96390	22 45 28.75	−13 09 14.9	18.2	T	K 215
C/2014 AA$_{52}$	2015 08 15.11144	22 39 01.34	−12 56 35.1	17.8	N	J22
C/2014 AA$_{52}$	2015 08 15.11267	22 39 01.14	−12 56 34.5	17.8	N	J22
C/2014 AA$_{52}$	2015 08 15.11389	22 39 00.91	−12 56 34.0	17.8	N	J22
C/2014 AA$_{52}$	2015 08 15.34160	22 38 19.90	−12 55 13.2	17.5	T	G45
C/2014 AA$_{52}$	2015 08 15.34682	22 38 18.94	−12 55 12.1	17.2	T	G45

C/2014 AA_{52}	2015 08 15.35275	22 38 17.90	−12 55 09.3	17.5	T		G45
C/2014 AA_{52}	2015 08 15.35288	22 38 17.87	−12 55 08.4	17.5	T		G45
C/2014 AA_{52}	2015 08 15.35783	22 38 16.92	−12 55 07.0	17.7	T		G45
C/2014 AA_{52}	2015 08 15.35797	22 38 16.93	−12 55 07.5	17.4	T		G45
C/2014 AA_{52}	2015 08 16.98083	22 33 25.12	−12 45 13.1	18.0	N	9	G40
C/2014 AA_{52}	2015 08 17.00148	22 33 21.36	−12 45 05.7	18.0	N	9	G40
C/2014 AA_{52}	2015 08 17.02365	22 33 17.35	−12 44 57.9	18.0	N	9	G40
C/2014 AA_{52}	2015 08 18.32462	22 29 24.20	−12 36 56.3	17.6	T		691
C/2014 AA_{52}	2015 08 18.34343	22 29 20.69	−12 36 47.0	18.0	T		691
C/2014 AA_{52}	2015 08 18.36225	22 29 17.26	−12 36 39.7	17.7	T		691
C/2014 AA_{52}	2015 08 18.40323	22 29 09.91	−12 36 23.9	17.0	T		703
C/2014 AA_{52}	2015 08 18.41187	22 29 08.35	−12 36 20.7	16.7	T		703
C/2014 AA_{52}	2015 08 18.42050	22 29 06.83	−12 36 18.2	16.6	T		703
C/2014 AA_{52}	2015 08 18.42913	22 29 05.26	−12 36 14.6	17.0	T		703
C/2014 AA_{52}	2015 08 19.66658	22 25 24.76	−12 28 17.6	17.7	N		Q68
C/2014 AA_{52}	2015 08 19.69112	22 25 20.39	−12 28 07.8	17.8	N		Q68
C/2014 AA_{52}	2015 08 20.88472	22 21 49.31	−12 20 34.6	17.6	T	K	K41
C/2014 AA_{52}	2015 08 20.94217	22 21 39.21	−12 20 18.1	17.9	T	K	K41
C/2014 AA_{52}	2015 08 21.41058	22 20 16.591	−12 17 05.55	19.3	T		F51
C/2014 AA_{52}	2015 08 21.42178	22 20 14.612	−12 17 01.24	19.3	T		F51
C/2014 AA_{52}	2015 08 21.43293	22 20 12.620	−12 16 56.91	19.4	T		F51
C/2014 AA_{52}	2015 08 21.44406	22 20 10.642	−12 16 52.42	19.3	T		F51
C/2014 AA_{52}	2015 08 21.97078	22 18 38.34	−12 13 28.5	17.3	N		B96
C/2014 AA_{52}	2015 08 21.97575	22 18 37.32	−12 13 25.7	18.0	N		B96
C/2014 AA_{52}	2015 08 21.98073	22 18 36.53	−12 13 25.3	17.0	N		B96
C/2014 AA_{52}	2015 08 21.98719	22 18 35.54	−12 13 21.3	17.7	N		J22
C/2014 AA_{52}	2015 08 21.99024	22 18 34.95	−12 13 19.4	17.7	N		J22
C/2014 AA_{52}	2015 08 21.99354	22 18 34.38	−12 13 18.0	17.7	N		J22
C/2014 AA_{52}	2015 08 22.96701	22 15 44.29	−12 06 55.5	18.4	N		B96
C/2014 AA_{52}	2015 08 22.97199	22 15 43.56	−12 06 52.5	17.7	N		B96
C/2014 AA_{52}	2015 08 22.97697	22 15 42.79	−12 06 50.5	17.8	N		B96
C/2014 AA_{52}	2015 08 25.01294	22 09 52.18	−11 53 12.9	18.6	N	K	J01
C/2014 AA_{52}	2015 08 25.01410	22 09 52.02	−11 53 13.4	17.1	N	K	J01
C/2014 AA_{52}	2015 08 25.01988	22 09 51.05	−11 53 10.7	18.9	N	K	J01

C/2014 E2 (Jacques)

C/2014 E2	2015 06 08.98926	19 59 37.66	+03 52 03.9	19.9	N	K	585
C/2014 E2	2015 06 08.98945	19 59 37.73	+03 52 03.6	19.9	N	K	585

C/2014 F2 (Tenagra)

C/2014 F2	2015 06 10.89257	10 09 55.63	+65 25 46.4	18.3	N	K	585
C/2014 F2	2015 06 10.89328	10 09 55.61	+65 25 45.8	18.3	N	K	585
C/2014 F2	2015 06 10.89399	10 09 55.62	+65 25 45.1	18.2	N	K	585
C/2014 F2	2015 06 10.89470	10 09 55.61	+65 25 44.7	18.2	N	K	585
C/2014 F2	2015 06 10.89541	10 09 55.58	+65 25 44.1	18.1	N	K	585
C/2014 F2	2015 06 10.89612	10 09 55.55	+65 25 43.9	18.2	N	K	585
C/2014 F2	2015 06 10.89682	10 09 55.53	+65 25 43.4	18.3	N	K	585

C/2014 L5 (Lemmon)

C/2014 L5	2015 07 17.02493	21 57 58.72	+47 20 41.2	19.7	T	K	461
C/2014 L5	2015 07 17.03076	21 57 58.26	+47 20 42.3	19.5	T	K	461
C/2014 L5	2015 07 17.03656	21 57 57.76	+47 20 43.8	20.6	T	K	461
C/2014 L5	2015 07 21.99047	21 51 29.53	+47 36 30.0	21.1	T	K	461
C/2014 L5	2015 07 21.99742	21 51 28.90	+47 36 31.0	20.2	T	K	461
C/2014 L5	2015 07 22.00623	21 51 28.25	+47 36 32.9	20.0	T	K	461

C/2014 M1 (PANSTARRS)

C/2014 M1	2015 06 22.57603	17 20 00.55	−35 04 41.0			1	Q62
C/2014 M1	2015 06 22.57813	17 20 00.39	−35 04 40.5			1	Q62
C/2014 M1	2015 06 22.58024	17 20 00.19	−35 04 40.3	18.9	T	1	Q62
C/2014 M1	2015 07 07.59539	16 57 16.02	−33 51 49.6			1	Q62
C/2014 M1	2015 07 07.59747	16 57 15.83	−33 51 48.8			1	Q62
C/2014 M1	2015 07 07.59955	16 57 15.68	−33 51 48.2	18.7	T	1	Q62

P/2014 MG_4 (Spacewatch-PANSTARRS)

P/2014 MG_4	2015 07 28.57099	23 42 00.933	+05 08 19.75	20.9	T		F51
P/2014 MG_4	2015 07 28.58370	23 42 00.741	+05 08 20.35	21.3	T		F51
P/2014 MG_4	2015 07 28.59641	23 42 00.591	+05 08 21.00	21.0	T		F51
P/2014 MG_4	2015 07 28.60911	23 42 00.407	+05 08 21.59	21.1	T		F51
P/2014 MG_4	2015 08 05.37808	23 40 01.36	+05 11 34.6	19.8	T		G45
P/2014 MG_4	2015 08 05.38343	23 40 01.28	+05 11 35.4	19.4	T		G45
P/2014 MG_4	2015 08 05.39277	23 40 01.09	+05 11 35.6	20.0	T		G45
P/2014 MG_4	2015 08 05.39401	23 40 01.09	+05 11 35.8	19.1	T		G45
P/2014 MG_4	2015 08 05.39920	23 40 00.94	+05 11 35.5	19.6	T		G45
P/2014 MG_4	2015 08 05.40436	23 40 00.82	+05 11 35.5	19.1	T		G45
P/2014 MG_4	2015 08 14.36402	23 36 53.76	+05 08 53.1	19.3	T		G45
P/2014 MG_4	2015 08 14.36957	23 36 53.59	+05 08 53.1	19.1	T		G45
P/2014 MG_4	2015 08 14.37449	23 36 53.48	+05 08 52.6	19.6	T		G45
P/2014 MG_4	2015 08 14.39545	23 36 52.98	+05 08 52.2	19.4	T		G45
P/2014 MG_4	2015 08 14.40053	23 36 52.86	+05 08 52.4	19.7	T		G45
P/2014 MG_4	2015 08 14.40565	23 36 52.76	+05 08 51.4	20.0	T		G45
P/2014 MG_4	2015 08 21.52567	23 33 51.209	+05 01 57.97	20.6	T		F51
P/2014 MG_4	2015 08 21.53827	23 33 50.854	+05 01 56.90	20.6	T		F51
P/2014 MG_4	2015 08 21.55090	23 33 50.496	+05 01 56.02	21.0	T		F51
P/2014 MG_4	2015 08 26.04920	23 31 43.71	+04 55 34.0	19.4	T	K	215
P/2014 MG_4	2015 08 26.05112	23 31 43.64	+04 55 33.8	19.2	T	K	215
P/2014 MG_4	2015 08 26.05305	23 31 43.56	+04 55 33.6	19.2	T	K	215

C/2014 N3 (NEOWISE)

C/2014 N3	2015 06 24.82070	02 09 13.72	+23 05 59.6			1	Q62
C/2014 N3	2015 06 24.82241	02 09 13.76	+23 06 00.9			1	Q62
C/2014 N3	2015 06 24.82406	02 09 13.84	+23 06 02.3	14.8	T	1	Q62
C/2014 N3	2015 06 26.20707	02 10 00.76	+23 24 14.7	16.3	N	9	G40
C/2014 N3	2015 06 26.20963	02 10 00.83	+23 24 16.6	16.2	N	9	G40
C/2014 N3	2015 06 28.09941	02 11 03.31	+23 49 13.7	17.2	N	K	160
C/2014 N3	2015 06 28.10172	02 11 03.40	+23 49 15.4	17.1	N	K	160
C/2014 N3	2015 06 28.10404	02 11 03.44	+23 49 17.3	17.2	N	K	160
C/2014 N3	2015 07 03.10185	02 13 39.76	+24 55 33.9	16.8	N	K	160
C/2014 N3	2015 07 03.10435	02 13 39.84	+24 55 36.0	16.8	N	K	160
C/2014 N3	2015 07 03.10685	02 13 39.91	+24 55 37.8	16.7	N	K	160
C/2014 N3	2015 07 12.07356	02 17 43.85	+26 55 33.1	17.3	N	K	160
C/2014 N3	2015 07 12.07603	02 17 43.88	+26 55 35.5	17.3	N	K	160
C/2014 N3	2015 07 12.07849	02 17 43.93	+26 55 37.5	17.2	N	K	160
C/2014 N3	2015 07 13.08349	02 18 08.06	+27 09 08.8	16.5	N	K	160
C/2014 N3	2015 07 13.08580	02 18 08.10	+27 09 11.2	17.2	N	K	160
C/2014 N3	2015 07 13.08812	02 18 08.15	+27 09 13.0	17.1	N	K	160
C/2014 N3	2015 07 14.96087	02 18 51.17	+27 34 26.8	15.9	N		L96

C/2014 N3	2015 07 14.97139	02 18 51.37	+27 34 35.6	15.7	N	L96
C/2014 N3	2015 07 14.98191	02 18 51.68	+27 34 44.5	16.2	N	L96
C/2014 N3	2015 07 14.99243	02 18 51.85	+27 34 52.7	15.5	N	L96
C/2014 N3	2015 07 18.08618	02 19 57.13	+28 16 44.2	17.3	N	K 160
C/2014 N3	2015 07 18.08853	02 19 57.18	+28 16 46.0	17.3	N	K 160
C/2014 N3	2015 07 18.09088	02 19 57.24	+28 16 47.4	17.4	N	K 160
C/2014 N3	2015 07 20.06192	02 20 35.01	+28 43 32.1	17.4	N	K 160
C/2014 N3	2015 07 20.06438	02 20 35.05	+28 43 34.1	17.4	N	K 160
C/2014 N3	2015 07 20.06685	02 20 35.13	+28 43 36.1	17.3	N	K 160
C/2014 N3	2015 07 21.08197	02 20 53.34	+28 57 23.4	17.3	N	K 160
C/2014 N3	2015 07 21.08431	02 20 53.38	+28 57 25.3	17.3	N	K 160
C/2014 N3	2015 07 21.08665	02 20 53.45	+28 57 27.3	17.2	N	K 160
C/2014 N3	2015 07 23.15408	02 21 27.91	+29 25 35.8	14.9	T	17 I89
C/2014 N3	2015 07 23.15614	02 21 28.00	+29 25 38.3	15.8	N	17 I89
C/2014 N3	2015 07 25.76377	02 22 06.36	+30 01 11.6			K 367
C/2014 N3	2015 07 25.76499	02 22 06.39	+30 01 12.7			K 367
C/2014 N3	2015 07 25.76661	02 22 06.41	+30 01 14.0	15.1	T	K 367
C/2014 N3	2015 07 26.69245	02 22 18.63	+30 13 53.3	15.2	T	349
C/2014 N3	2015 07 26.70169	02 22 18.76	+30 14 01.1			349
C/2014 N3	2015 07 26.71097	02 22 18.87	+30 14 08.7			349
C/2014 N3	2015 07 26.79200	02 22 19.83	+30 15 17.6	16.0	N	30D90
C/2014 N3	2015 07 26.79438	02 22 19.89	+30 15 18.5	16.0	N	30D90
C/2014 N3	2015 07 26.79676	02 22 19.91	+30 15 22.1	16.0	N	30D90
C/2014 N3	2015 07 27.37820	02 22 27.14	+30 23 18.0	16.0	N	W96
C/2014 N3	2015 07 27.42988	02 22 27.66	+30 23 59.8	15.9	N	W96
C/2014 N3	2015 08 03.36582	02 23 29.03	+31 59 05.6	15.8	N	W96
C/2014 N3	2015 08 03.41522	02 23 29.24	+31 59 46.7	15.9	N	W96
C/2014 N3	2015 08 05.96300	02 23 39.72	+32 34 46.0	17.5	N	A71
C/2014 N3	2015 08 05.97148	02 23 39.77	+32 34 53.0	17.5	N	A71
C/2014 N3	2015 08 05.97343	02 23 39.69	+32 34 56.1	15.6	N	C36
C/2014 N3	2015 08 05.97497	02 23 39.76	+32 34 57.4	16.1	N	C36
C/2014 N3	2015 08 05.97619	02 23 39.72	+32 34 58.1	16.1	N	C36
C/2014 N3	2015 08 05.97742	02 23 39.60	+32 34 57.8	16.1	N	C36
C/2014 N3	2015 08 05.97997	02 23 39.81	+32 35 00.9	17.5	N	A71
C/2014 N3	2015 08 05.98561	02 23 39.79	+32 35 04.6	17.3	N	A71
C/2014 N3	2015 08 06.00604	02 23 39.83	+32 35 20.8	16.3	N	C23
C/2014 N3	2015 08 06.01053	02 23 39.73	+32 35 25.8	16.6	N	C23
C/2014 N3	2015 08 06.01578	02 23 39.85	+32 35 29.5	16.0	N	C23
C/2014 N3	2015 08 07.01133	02 23 41.94	+32 49 11.3	17.1	N	B96
C/2014 N3	2015 08 07.02130	02 23 41.99	+32 49 19.3	16.9	N	B96
C/2014 N3	2015 08 07.02319	02 23 42.10	+32 49 20.9	17.3	N	K 160
C/2014 N3	2015 08 07.02591	02 23 42.05	+32 49 23.7	17.3	N	K 160
C/2014 N3	2015 08 07.02863	02 23 42.04	+32 49 25.8	17.2	N	K 160
C/2014 N3	2015 08 08.00101	02 23 43.05	+33 02 47.7	16.1	N	C36
C/2014 N3	2015 08 08.00247	02 23 43.09	+33 02 49.0	15.9	N	C36
C/2014 N3	2015 08 08.00537	02 23 43.06	+33 02 51.0	16.1	N	C36
C/2014 N3	2015 08 08.00683	02 23 43.02	+33 02 52.3	16.3	N	C36
C/2014 N3	2015 08 08.00829	02 23 43.06	+33 02 53.2	15.7	N	C36
C/2014 N3	2015 08 08.00973	02 23 43.05	+33 02 55.4	15.8	N	C36
C/2014 N3	2015 08 08.60990	02 23 43.04	+33 11 10.0	19	T	C51
Geocentric position (km)	+ 2557.8662	+ 4746.0910	+ 4247.1124			
C/2014 N3	2015 08 08.87221	02 23 42.99	+33 14 46.6			C51
Geocentric position (km)	+ 2508.4503	+ 4728.1913	+ 4296.1295			
C/2014 N3	2015 08 08.87234	02 23 42.98	+33 14 47.7			C51
Geocentric position (km)	+ 2544.8494	+ 4767.1362	+ 4231.3628			
C/2014 N3	2015 08 08.93792	02 23 42.91	+33 15 41.4			C51
Geocentric position (km)	+ 2532.5256	+ 4762.7206	+ 4243.6727			
C/2014 N3	2015 08 08.94904	02 23 42.95	+33 15 48.1	16.2	N	C36
C/2014 N3	2015 08 08.95050	02 23 43.06	+33 15 50.3	16.2	N	C36
C/2014 N3	2015 08 08.95341	02 23 43.05	+33 15 52.2	16.1	N	C36
C/2014 N3	2015 08 08.95486	02 23 42.98	+33 15 54.6	16.3	N	C36
C/2014 N3	2015 08 09.00350	02 23 42.91	+33 16 34.7			C51
Geocentric position (km)	+ 2520.2183	+ 4758.2778	+ 4255.9347			
C/2014 N3	2015 08 09.03071	02 23 43.02	+33 16 58.0	17.4	N	A71
C/2014 N3	2015 08 09.04128	02 23 42.99	+33 17 06.8	17.5	N	A71
C/2014 N3	2015 08 09.05186	02 23 43.02	+33 17 15.2	17.4	N	A71
C/2014 N3	2015 08 09.06243	02 23 43.02	+33 17 24.1	17.5	N	A71
C/2014 N3	2015 08 09.06908	02 23 42.80	+33 17 30.5			C51
Geocentric position (km)	+ 2507.9150	+ 4753.7891	+ 4268.1602			
C/2014 N3	2015 08 09.20024	02 23 42.82	+33 19 17.5			C51
Geocentric position (km)	+ 2483.3109	+ 4744.6743	+ 4292.5480			
C/2014 N3	2015 08 09.26582	02 23 42.72	+33 20 11.7			C51
Geocentric position (km)	+ 2471.0124	+ 4740.0492	+ 4304.7073			
C/2014 N3	2015 08 09.33152	02 23 42.61	+33 21 06.0			C51
Geocentric position (km)	+ 2494.9333	+ 4774.8578	+ 4252.2499			
C/2014 N3	2015 08 09.37935	02 23 42.70	+33 21 45.7	16.0	N	K H47
C/2014 N3	2015 08 09.38696	02 23 42.76	+33 21 52.1	15.8	N	K H47
C/2014 N3	2015 08 09.39436	02 23 42.70	+33 21 58.7	16.1	N	K H47
C/2014 N3	2015 08 09.46268	02 23 42.56	+33 22 50.8			C51
Geocentric position (km)	+ 2470.4337	+ 4765.7717	+ 4276.6087			
C/2014 N3	2015 08 09.72500	02 23 42.15	+33 26 30.0			C51
Geocentric position (km)	+ 2421.4629	+ 4747.0549	+ 4325.0221			
C/2014 N3	2015 08 09.77755	02 23 42.23	+33 27 16.0	15.9	N	30D90
C/2014 N3	2015 08 09.77993	02 23 42.21	+33 27 18.3	15.9	N	30D90
C/2014 N3	2015 08 09.78470	02 23 42.16	+33 27 22.8	15.9	N	30D90
C/2014 N3	2015 08 09.94531	02 23 41.99	+33 29 31.6	16.3	N	C36
C/2014 N3	2015 08 09.94677	02 23 42.00	+33 29 32.4	16.0	N	C36
C/2014 N3	2015 08 09.94823	02 23 42.04	+33 29 34.1	16.2	N	C36
C/2014 N3	2015 08 09.95113	02 23 41.99	+33 29 35.6	16.2	N	C36
C/2014 N3	2015 08 09.95405	02 23 41.96	+33 29 39.1	15.7	N	C36
C/2014 N3	2015 08 09.95696	02 23 41.96	+33 29 41.8	16.0	N	C36
C/2014 N3	2015 08 11.07116	02 23 39.47	+33 45 00.2	16.2	N	C23
C/2014 N3	2015 08 11.07191	02 23 39.52	+33 45 01.0	15.7	N	C23
C/2014 N3	2015 08 11.07416	02 23 39.43	+33 45 02.4	15.4	N	C23
C/2014 N3	2015 08 13.07110	02 23 31.21	+34 12 28.4	16.7	T	K 215
C/2014 N3	2015 08 13.07237	02 23 31.20	+34 12 29.5	16.7	T	K 215
C/2014 N3	2015 08 13.07365	02 23 31.18	+34 12 30.8	16.8	T	K 215
C/2014 N3	2015 08 13.07892	02 23 31.16	+34 12 35.2	17.3	N	K 160
C/2014 N3	2015 08 13.08127	02 23 31.15	+34 12 37.1	17.3	N	K 160
C/2014 N3	2015 08 13.08362	02 23 31.15	+34 12 39.2	17.3	N	K 160
C/2014 N3	2015 08 14.87938	02 23 19.74	+34 37 16.6	15.9	N	C36
C/2014 N3	2015 08 14.88565	02 23 19.71	+34 37 20.6	15.9	N	C36
C/2014 N3	2015 08 14.88709	02 23 19.68	+34 37 22.4	15.9	N	C36
C/2014 N3	2015 08 14.88855	02 23 19.63	+34 37 24.0	15.9	N	C36
C/2014 N3	2015 08 14.89001	02 23 19.66	+34 37 25.0	15.8	N	C36
C/2014 N3	2015 08 14.89147	02 23 19.64	+34 37 25.5	15.8	N	C36

C/2014 N3	2015 08 16.86083	02 23 02.56	+35 04 23.4	16.3	N	C36
C/2014 N3	2015 08 16.86206	02 23 02.55	+35 04 24.2	16.3	N	C36
C/2014 N3	2015 08 16.86329	02 23 02.51	+35 04 24.4	16.5	N	C36
C/2014 N3	2015 08 16.86451	02 23 02.48	+35 04 27.3	16.7	N	C36
C/2014 N3	2015 08 16.86573	02 23 02.45	+35 04 27.3	16.6	N	C36
C/2014 N3	2015 08 16.86696	02 23 02.51	+35 04 28.8	16.4	N	C36
C/2014 N3	2015 08 16.86818	02 23 02.44	+35 04 29.1	16.6	N	C36
C/2014 N3	2015 08 16.86941	02 23 02.46	+35 04 31.0	16.5	N	C36
C/2014 N3	2015 08 16.87185	02 23 02.44	+35 04 31.7	16.7	N	C36
C/2014 N3	2015 08 17.08576	02 23 00.28	+35 07 27.5	15.6	N	I81
C/2014 N3	2015 08 17.09094	02 23 00.21	+35 07 32.5	16.2	N	I81
C/2014 N3	2015 08 17.09174	02 23 00.25	+35 07 34.4	15.9	N	J22
C/2014 N3	2015 08 17.09588	02 23 00.23	+35 07 37.3	15.9	N	J22
C/2014 N3	2015 08 17.09631	02 23 00.18	+35 07 36.3	15.7	N	I81
C/2014 N3	2015 08 19.97876	02 22 25.54	+35 46 54.7	16.2	N	C23
C/2014 N3	2015 08 19.98176	02 22 25.48	+35 46 56.6	16.4	N	C23
C/2014 N3	2015 08 19.98476	02 22 25.42	+35 46 59.1	15.8	N	C23
C/2014 N3	2015 08 21.99492	02 21 54.87	+36 14 16.7	16.9	N	B96
C/2014 N3	2015 08 21.99657	02 21 54.86	+36 14 18.2	16.8	N	B96
C/2014 N3	2015 08 21.99823	02 21 54.82	+36 14 18.9	16.0	N	B96
C/2014 N3	2015 08 21.99988	02 21 54.77	+36 14 20.8	16.9	N	B96
C/2014 N3	2015 08 22.00154	02 21 54.78	+36 14 22.3	16.4	N	B96
C/2014 N3	2015 08 22.00321	02 21 54.75	+36 14 22.7	17.0	N	B96
C/2014 N3	2015 08 22.00486	02 21 54.70	+36 14 25.1	16.9	N	B96
C/2014 N3	2015 08 22.99118	02 21 37.64	+36 27 45.5	15.0	N	B96
C/2014 N3	2015 08 22.99617	02 21 37.66	+36 27 49.7	16.8	N	B96
C/2014 N3	2015 08 23.00115	02 21 37.53	+36 27 53.0	15.8	N	B96
C/2014 N3	2015 08 23.90187	02 21 20.92	+36 40 02.4	16.3	N	C36
C/2014 N3	2015 08 23.90455	02 21 20.97	+36 40 05.4	16.4	N	C36
C/2014 N3	2015 08 23.90723	02 21 20.84	+36 40 06.8	16.5	N	C36
C/2014 N3	2015 08 23.90992	02 21 20.73	+36 40 08.7	16.0	N	C36
C/2014 N3	2015 08 23.91126	02 21 20.78	+36 40 09.5	16.5	N	C36
C/2014 N3	2015 08 23.91260	02 21 20.73	+36 40 11.0	16.5	N	C36
C/2014 N3	2015 08 23.91529	02 21 20.72	+36 40 13.1	16.5	N	C36
C/2014 N3	2015 08 23.91662	02 21 20.68	+36 40 14.2	16.1	N	C36
C/2014 N3	2015 08 23.91796	02 21 20.55	+36 40 14.8	16.0	N	C36
C/2014 N3	2015 08 24.01063	02 21 18.91	+36 41 29.2	16.2	N	I81
C/2014 N3	2015 08 24.01601	02 21 18.81	+36 41 33.6	16.2	N	I81
C/2014 N3	2015 08 24.02030	02 21 18.70	+36 41 36.9	16.2	N	I81
C/2014 N3	2015 08 24.33006	02 21 12.64	+36 45 50.8	15.8	N	W96
C/2014 N3	2015 08 24.35784	02 21 12.05	+36 46 13.3	15.8	N	W96
C/2014 N3	2015 08 25.01284	02 20 58.99	+36 54 58.3	15.7	N	939
C/2014 N3	2015 08 25.01943	02 20 58.84	+36 55 03.8	15.7	N	939
C/2014 N3	2015 08 25.02604	02 20 58.70	+36 55 09.6	15.7	N	939
C/2014 N3	2015 08 25.92161	02 20 39.78	+37 07 08.8	16.2	N	K K61
C/2014 N3	2015 08 25.92332	02 20 39.66	+37 07 10.7	16.8	N	K K61
C/2014 N3	2015 08 25.92902	02 20 39.67	+37 07 16.3	15.5	N	C36
C/2014 N3	2015 08 25.93304	02 20 39.49	+37 07 20.3	15.4	N	C36
C/2014 N3	2015 08 25.93439	02 20 39.40	+37 07 21.2	16.0	N	C36
C/2014 N3	2015 08 25.93572	02 20 39.48	+37 07 21.1	16.0	N	C36
C/2014 N3	2015 08 25.98725	02 20 38.31	+37 08 01.5	15.6	N	I81
C/2014 N3	2015 08 25.99310	02 20 38.15	+37 08 06.9	16.0	N	I81
C/2014 N3	2015 08 25.99847	02 20 38.04	+37 08 11.1	16.0	N	I81
C/2014 N3	2015 08 26.09437	02 20 35.86	+37 09 29.6	17.1	N	K A77
C/2014 N3	2015 08 26.10119	02 20 35.71	+37 09 35.0	17.2	N	K A77
C/2014 N3	2015 08 26.10921	02 20 35.53	+37 09 41.7	17.2	N	K A77
C/2014 N3	2015 08 26.76719	02 20 20.73	+37 18 28.9			K 367
C/2014 N3	2015 08 26.76881	02 20 20.70	+37 18 30.2			K 367
C/2014 N3	2015 08 26.77002	02 20 20.66	+37 18 31.2	15.0	T	K 367
C/2014 N3	2015 08 26.96123	02 20 16.33	+37 21 04.0	17.5	N	C47
C/2014 N3	2015 08 26.96345	02 20 16.27	+37 21 05.4	16.6	N	C47
C/2014 N3	2015 08 26.96603	02 20 16.24	+37 21 07.6	17.8	N	C47
C/2014 N3	2015 08 26.96861	02 20 16.13	+37 21 09.5	17.6	N	C47
C/2014 N3	2015 08 26.97120	02 20 16.08	+37 21 11.8	17.0	N	C47
C/2014 N3	2015 08 26.97378	02 20 16.06	+37 21 13.9	16.9	N	C47
C/2014 N3	2015 08 26.97931	02 20 15.90	+37 21 18.4	17.1	N	C47
C/2014 N3	2015 08 26.98334	02 20 15.82	+37 21 20.5	15.5	N	I81
C/2014 N3	2015 08 26.98979	02 20 15.67	+37 21 26.2	15.0	N	I81
C/2014 N3	2015 08 26.99623	02 20 15.50	+37 21 31.5	14.9	N	I81

C/2014 OE$_4$ (PANSTARRS)

C/2014 OE$_4$	2015 07 06.29375	16 04 25.530	+05 18 29.61	19.0	T	F52
C/2014 OE$_4$	2015 07 06.30673	16 04 25.246	+05 18 31.91	19.1	T	F52
C/2014 OE$_4$	2015 07 06.31975	16 04 24.957	+05 18 34.21	19.1	T	F52
C/2014 OE$_4$	2015 07 06.33295	16 04 24.671	+05 18 36.52	19.1	T	F52
C/2014 OE$_4$	2015 07 06.35082	16 04 24.274	+05 18 39.70	19.2	T	F52
C/2014 OE$_4$	2015 07 06.36243	16 04 24.029	+05 18 41.79	19.2	T	F52
C/2014 OE$_4$	2015 07 06.37393	16 04 23.767	+05 18 43.70	18.9	T	F52
C/2014 OE$_4$	2015 07 06.38548	16 04 23.505	+05 18 45.76	19.1	T	F52
C/2014 OE$_4$	2015 08 06.86333	15 57 14.60	+06 17 30.1	19.0	N	A71
C/2014 OE$_4$	2015 08 06.86756	15 57 14.70	+06 17 31.4	19.1	N	A71
C/2014 OE$_4$	2015 08 06.87243	15 57 14.60	+06 17 31.2	18.6	N	A71
C/2014 OE$_4$	2015 08 06.87664	15 57 14.55	+06 17 31.6	18.9	N	A71
C/2014 OE$_4$	2015 08 20.83266	15 56 57.31	+06 26 31.7	18.7	N	K A77
C/2014 OE$_4$	2015 08 20.86576	15 56 57.37	+06 26 32.1	18.9	N	K A77

C/2014 Q1 (PANSTARRS)

C/2014 Q1	2015 07 16.96286	09 09 14.17	+15 05 16.1	7.0	N	W96
C/2014 Q1	2015 07 16.96484	09 09 15.38	+15 05 05.6	7.0	N	W96
C/2014 Q1	2015 07 20.95079	09 35 08.61	+08 35 28.1	8.2	N	I47
C/2014 Q1	2015 07 20.95287	09 35 09.32	+08 35 16.7	8.0	N	I47
C/2014 Q1	2015 07 26.37267	10 05 24.39	+00 12 10.7	10.3	N	30D90
C/2014 Q1	2015 07 26.37424	10 05 24.81	+00 12 03.1	10.3	N	30D90
C/2014 Q1	2015 07 26.37579	10 05 25.34	+00 11 53.8	10.3	N	30D90
C/2014 Q1	2015 07 31.91946	10 32 37.26	−07 32 35.7	12.1	N	I39
C/2014 Q1	2015 07 31.92443	10 32 38.64	−07 32 59.0	12.1	N	I39
C/2014 Q1	2015 07 31.93204	10 32 40.76	−07 33 35.2	12.1	N	I39
C/2014 Q1	2015 08 02.35548	10 39 13.87	−09 23 37.6			1 Q62
C/2014 Q1	2015 08 02.35628	10 39 14.08	−09 23 40.9			1 Q62
C/2014 Q1	2015 08 02.35707	10 39 14.31	−09 23 44.4			1 Q62
C/2014 Q1	2015 08 02.35791	10 39 14.53	−09 23 48.5	8.6	T	1 Q62
C/2014 Q1	2015 08 03.96477	10 46 28.01	−11 23 23.5	11.3	N	K I47
C/2014 Q1	2015 08 03.97014	10 46 29.39	−11 23 47.0	11.5	N	K I47
C/2014 Q1	2015 08 05.97278	10 55 15.90	−13 45 58.6	13.5	N	G39
C/2014 Q1	2015 08 05.97354	10 55 16.09	−13 46 01.5	13.4	N	G39
C/2014 Q1	2015 08 05.97431	10 55 16.24	−13 46 04.5	13.5	N	G39
C/2014 Q1	2015 08 05.97507	10 55 16.48	−13 46 07.9	13.7	N	G39

C/2014 Q1	2015 08 05.97583	10 55 16.64	−13 46 10.4	13.5	N	G39
C/2014 Q1	2015 08 05.97660	10 55 16.84	−13 46 13.9	13.5	N	G39
C/2014 Q1	2015 08 05.97736	10 55 17.04	−13 46 17.3	13.4	N	G39
C/2014 Q1	2015 08 05.97812	10 55 17.21	−13 46 19.9	13.3	N	G39
C/2014 Q1	2015 08 05.97889	10 55 17.40	−13 46 23.4	13.4	N	G39
C/2014 Q1	2015 08 05.97965	10 55 17.67	−13 46 27.2	13.6	N	G39
C/2014 Q1	2015 08 06.97317	10 59 33.71	−14 54 11.7	13.6	N	G39
C/2014 Q1	2015 08 06.97392	10 59 33.93	−14 54 15.2	13.6	N	G39
C/2014 Q1	2015 08 06.97470	10 59 34.12	−14 54 18.1	13.6	N	G39
C/2014 Q1	2015 08 06.97546	10 59 34.31	−14 54 21.1	13.5	N	G39
C/2014 Q1	2015 08 06.97623	10 59 34.49	−14 54 24.3	13.6	N	G39
C/2014 Q1	2015 08 06.97699	10 59 34.68	−14 54 27.2	13.5	N	G39
C/2014 Q1	2015 08 06.97775	10 59 34.86	−14 54 29.9	13.4	N	G39
C/2014 Q1	2015 08 06.97852	10 59 35.07	−14 54 33.4	13.4	N	G39
C/2014 Q1	2015 08 06.97928	10 59 35.24	−14 54 35.9	13.6	N	G39
C/2014 Q1	2015 08 06.98005	10 59 35.48	−14 54 40.0	13.5	N	G39
C/2014 Q1	2015 08 07.97441	11 03 48.55	−16 00 40.0	13.2	N	G39
C/2014 Q1	2015 08 07.97823	11 03 49.46	−16 00 53.8	13.4	N	G39
C/2014 Q1	2015 08 07.98127	11 03 50.32	−16 01 06.6	13.7	N	G39
C/2014 Q1	2015 08 08.36362	11 05 26.85	−16 25 59.0	12.6	N	; Q62
C/2014 Q1	2015 08 08.36442	11 05 27.17	−16 26 03.1	12.6	N	; Q62
C/2014 Q1	2015 08 08.36523	11 05 27.27	−16 26 06.3	12.6	N	; Q62
C/2014 Q1	2015 08 08.36604	11 05 27.53	−16 26 09.0	12.6	N	; Q62
C/2014 Q1	2015 08 08.37168	11 05 28.90	−16 26 30.7	12.5	N	; Q62
C/2014 Q1	2015 08 08.39506	11 05 34.77	−16 28 00.7	12.1	N	30D90
C/2014 Q1	2015 08 08.39570	11 05 34.98	−16 28 03.6	12.1	N	30D90
C/2014 Q1	2015 08 08.39635	11 05 35.16	−16 28 06.8	12.1	N	30D90
C/2014 Q1	2015 08 09.35015	11 09 34.01	−17 29 01.7	12.7	N	; Q62
C/2014 Q1	2015 08 09.35108	11 09 34.25	−17 29 05.0	12.7	N	; Q62
C/2014 Q1	2015 08 09.35197	11 09 34.44	−17 29 08.3	12.7	N	; Q62
C/2014 Q1	2015 08 09.35285	11 09 34.66	−17 29 11.3	12.7	N	; Q62
C/2014 Q1	2015 08 09.97510	11 12 09.14	−18 08 04.2	13.6	N	G39
C/2014 Q1	2015 08 09.97816	11 12 09.94	−18 08 15.9	13.6	N	G39
C/2014 Q1	2015 08 09.98198	11 12 10.94	−18 08 29.7	13.4	N	G39
C/2014 Q1	2015 08 10.98148	11 16 16.84	−19 09 30.8	13.7	N	G39
C/2014 Q1	2015 08 10.98454	11 16 17.59	−19 09 42.0	13.8	N	G39
C/2014 Q1	2015 08 10.98836	11 16 18.51	−19 09 55.6	13.7	N	G39
C/2014 Q1	2015 08 12.96963	11 24 18.58	−21 05 52.2	14.0	N	G39
C/2014 Q1	2015 08 12.97269	11 24 19.28	−21 06 02.7	14.0	N	G39
C/2014 Q1	2015 08 12.97650	11 24 20.19	−21 06 15.9	14.1	N	G39
C/2014 Q1	2015 08 13.97039	11 28 17.46	−22 01 58.6	14.6	N	G39
C/2014 Q1	2015 08 13.97345	11 28 18.17	−22 02 08.8	14.8	N	G39
C/2014 Q1	2015 08 13.97728	11 28 19.08	−22 02 21.4	14.6	N	G39
C/2014 Q1	2015 08 14.97007	11 32 14.03	−22 56 27.4	13.2	N	G39
C/2014 Q1	2015 08 14.97313	11 32 14.78	−22 56 37.3	13.4	N	G39
C/2014 Q1	2015 08 14.97696	11 32 15.64	−22 56 49.3	13.6	N	G39
C/2014 Q1	2015 08 15.37005	11 33 48.13	−23 17 47.7	12.5	N	; Q62
C/2014 Q1	2015 08 15.37093	11 33 48.35	−23 17 50.7	12.5	N	; Q62
C/2014 Q1	2015 08 15.37181	11 33 48.53	−23 17 53.3	12.5	N	; Q62
C/2014 Q1	2015 08 15.37270	11 33 48.76	−23 17 56.3	12.5	N	; Q62
C/2014 Q1	2015 08 15.37360	11 33 48.97	−23 17 59.1	12.5	N	; Q62
C/2014 Q1	2015 08 17.97006	11 43 51.39	−25 30 48.5	13.4	N	G39
C/2014 Q1	2015 08 17.97311	11 43 52.11	−25 30 56.4	13.5	N	G39
C/2014 Q1	2015 08 17.97693	11 43 52.99	−25 31 07.4	13.5	N	G39
C/2014 Q1	2015 08 18.97089	11 47 40.56	−26 19 23.2	13.7	N	G39
C/2014 Q1	2015 08 18.97472	11 47 41.40	−26 19 33.9	14.1	N	G39
C/2014 Q1	2015 08 18.97778	11 47 42.05	−26 19 42.7	14.1	N	G39
C/2014 Q1	2015 08 20.97175	11 55 12.67	−27 52 23.0	14.0	N	G39
C/2014 Q1	2015 08 20.97480	11 55 13.34	−27 52 31.2	14.2	N	G39
C/2014 Q1	2015 08 20.97786	11 55 13.99	−27 52 39.1	14.3	N	G39
C/2014 Q1	2015 08 22.94798	12 02 32.98	−29 19 08.1	14.1	N	K I45
C/2014 Q1	2015 08 22.95785	12 02 35.15	−29 19 32.5	14.0	N	I45
C/2014 Q1	2015 08 22.97145	12 02 38.09	−29 20 09.2	14.1	N	G39
C/2014 Q1	2015 08 22.97374	12 02 38.63	−29 20 15.8	14.5	N	G39
C/2014 Q1	2015 08 22.97679	12 02 39.35	−29 20 22.8	13.9	N	G39
C/2014 Q1	2015 08 23.97149	12 06 18.27	−30 02 10.3	14.0	N	G39
C/2014 Q1	2015 08 23.97531	12 06 19.14	−30 02 19.6	14.4	N	G39
C/2014 Q1	2015 08 23.97836	12 06 19.79	−30 02 27.3	14.2	N	G39
C/2014 Q1	2015 08 24.90103	12 09 42.25	−30 40 14.5	13.1	T	Y00
C/2014 Q1	2015 08 24.91031	12 09 44.36	−30 40 37.8	13.2	T	Y00
C/2014 Q1	2015 08 24.91944	12 09 46.24	−30 40 58.9	12.9	T	Y00
C/2014 Q1	2015 08 24.97162	12 09 57.10	−30 43 00.0	13.9	N	G39
C/2014 Q1	2015 08 24.97544	12 09 57.98	−30 43 09.7	14.4	N	G39
C/2014 Q1	2015 08 24.97850	12 09 58.63	−30 43 17.3	14.4	N	G39
C/2014 Q1	2015 08 25.97209	12 13 34.90	−31 22 40.0	14.4	N	G39
C/2014 Q1	2015 08 25.97286	12 13 35.00	−31 22 41.7	14.7	N	G39
C/2014 Q1	2015 08 25.97362	12 13 35.15	−31 22 43.3	14.6	N	G39
C/2014 Q1	2015 08 25.97439	12 13 35.35	−31 22 45.5	14.3	N	G39
C/2014 Q1	2015 08 25.97515	12 13 35.54	−31 22 46.4	14.3	N	G39
C/2014 Q1	2015 08 25.97591	12 13 35.65	−31 22 48.7	14.2	N	G39
C/2014 Q1	2015 08 25.97668	12 13 35.83	−31 22 50.7	14.2	N	G39
C/2014 Q1	2015 08 25.97744	12 13 35.95	−31 22 52.3	14.2	N	G39
C/2014 Q1	2015 08 25.97819	12 13 36.10	−31 22 53.8	14.2	N	G39
C/2014 Q1	2015 08 25.97897	12 13 36.27	−31 22 55.3	14.3	N	G39

C/2014 Q2 (Lovejoy)

C/2014 Q2	2015 06 08.89462	14 59 18.31	+85 02 42.7	11.9	N	585
C/2014 Q2	2015 06 08.89532	14 59 18.12	+85 02 41.4	11.9	N	585
C/2014 Q2	2015 06 08.89603	14 59 17.98	+85 02 40.2	11.9	N	585
C/2014 Q2	2015 06 08.89674	14 59 17.82	+85 02 38.9	11.9	N	585
C/2014 Q2	2015 06 08.89744	14 59 17.63	+85 02 37.7	11.9	N	585
C/2014 Q2	2015 06 08.89815	14 59 17.52	+85 02 36.4	11.9	N	585
C/2014 Q2	2015 06 08.89886	14 59 17.28	+85 02 35.1	11.9	N	585
C/2014 Q2	2015 06 08.91807	14 59 12.87	+85 02 00.8	11.9	N	585
C/2014 Q2	2015 06 08.91877	14 59 12.74	+85 01 59.6	11.9	N	585
C/2014 Q2	2015 06 08.91948	14 59 12.58	+85 01 58.3	11.8	N	585
C/2014 Q2	2015 06 08.92463	14 59 11.46	+85 01 49.1	11.9	N	585
C/2014 Q2	2015 06 08.92499	14 59 11.41	+85 01 48.5	11.9	N	585
C/2014 Q2	2015 06 08.92535	14 59 11.26	+85 01 47.8	11.9	N	585
C/2014 Q2	2015 06 08.92571	14 59 11.24	+85 01 47.3	11.9	N	585
C/2014 Q2	2015 06 08.92607	14 59 11.18	+85 01 46.6	11.9	N	585
C/2014 Q2	2015 06 08.92643	14 59 11.12	+85 01 46.0	11.8	N	585
C/2014 Q2	2015 06 08.92679	14 59 11.00	+85 01 45.3	11.9	N	585
C/2014 Q2	2015 06 10.49102	14 54 27.52	+84 15 20.0	8.8	T	D95
C/2014 Q2	2015 06 10.49394	14 54 27.23	+84 15 14.7			D95
C/2014 Q2	2015 06 10.49613	14 54 26.94	+84 15 10.7			D95

C/2014 Q2	2015 06 10.61080	14 54 08.23	+84 11 45.0	9.2	T	349
C/2014 Q2	2015 06 10.61325	14 54 08.06	+84 11 40.8			349
C/2014 Q2	2015 06 10.61571	14 54 07.48	+84 11 36.3			349
C/2014 Q2	2015 06 10.93600	14 53 22.58	+84 02 01.7	11.8	N	585
C/2014 Q2	2015 06 10.93648	14 53 22.49	+84 02 00.8	11.9	N	585
C/2014 Q2	2015 06 10.93697	14 53 22.43	+84 01 59.9	11.9	N	585
C/2014 Q2	2015 06 10.93722	14 53 22.40	+84 01 59.5	11.9	N	585
C/2014 Q2	2015 06 10.93746	14 53 22.33	+84 01 59.0	11.9	N	585
C/2014 Q2	2015 06 10.93771	14 53 22.31	+84 01 58.6	11.9	N	585
C/2014 Q2	2015 06 10.93795	14 53 22.24	+84 01 58.0	11.9	N	585
C/2014 Q2	2015 06 10.93852	14 53 22.22	+84 01 57.1	11.9	N	585
C/2014 Q2	2015 06 10.93877	14 53 22.13	+84 01 56.6	11.9	N	585
C/2014 Q2	2015 06 10.93926	14 53 22.06	+84 01 55.7	11.9	N	585
C/2014 Q2	2015 06 10.93975	14 53 21.96	+84 01 54.8	11.9	N	585
C/2014 Q2	2015 06 13.90848	14 48 29.79	+82 32 30.0	14.2	N	B96
C/2014 Q2	2015 06 13.91346	14 48 29.38	+82 32 21.6	14.1	N	B96
C/2014 Q2	2015 06 13.92009	14 48 29.02	+82 32 09.1	14.1	N	B96
C/2014 Q2	2015 06 13.92672	14 48 28.26	+82 31 56.0	13.2	N	B96
C/2014 Q2	2015 06 13.93336	14 48 27.68	+82 31 44.5	13.2	N	B96
C/2014 Q2	2015 06 13.94000	14 48 27.47	+82 31 32.8	13.1	N	B96
C/2014 Q2	2015 06 28.67813	14 46 59.87	+74 56 03.2	10.2	T	372
C/2014 Q2	2015 06 28.68038	14 47 00.00	+74 55 58.7			372
C/2014 Q2	2015 06 29.96525	14 47 35.92	+74 15 48.8	13.3	N	C23
C/2014 Q2	2015 06 29.96749	14 47 35.97	+74 15 44.5	13.3	N	C23
C/2014 Q2	2015 06 29.97049	14 47 36.05	+74 15 38.9	13.3	N	C23
C/2014 Q2	2015 06 30.93006	14 48 04.95	+73 45 38.7	13.4	N	B96
C/2014 Q2	2015 06 30.93052	14 48 04.99	+73 45 36.9	13.2	N	C23
C/2014 Q2	2015 06 30.93683	14 48 05.17	+73 45 25.9	13.3	N	B96
C/2014 Q2	2015 06 30.93876	14 48 05.22	+73 45 21.3	13.1	N	C23
C/2014 Q2	2015 06 30.94850	14 48 05.57	+73 45 03.3	13.6	N	C23
C/2014 Q2	2015 06 30.95177	14 48 05.72	+73 44 56.9	13.3	N	B96
C/2014 Q2	2015 06 30.95841	14 48 05.90	+73 44 44.7	13.3	N	B96
C/2014 Q2	2015 06 30.96505	14 48 06.16	+73 44 31.1	13.4	N	B96
C/2014 Q2	2015 06 30.97169	14 48 06.25	+73 44 19.7	13.3	N	B96
C/2014 Q2	2015 07 01.03694	14 48 08.14	+73 42 16.5	13.4	N	B96
C/2014 Q2	2015 07 01.04205	14 48 08.32	+73 42 07.0	13.3	N	B96
C/2014 Q2	2015 07 01.04881	14 48 08.54	+73 41 53.6	13.3	N	B96
C/2014 Q2	2015 07 01.05861	14 48 08.72	+73 41 35.3	13.3	N	B96
C/2014 Q2	2015 07 01.06525	14 48 08.99	+73 41 23.0	13.3	N	B96
C/2014 Q2	2015 07 01.07189	14 48 09.09	+73 41 10.3	13.3	N	B96
C/2014 Q2	2015 07 01.07853	14 48 09.48	+73 40 57.6	13.3	N	B96
C/2014 Q2	2015 07 01.85061	14 48 34.31	+73 16 49.9	13.6	N	K61
C/2014 Q2	2015 07 01.85150	14 48 34.41	+73 16 48.4	13.5	N	K61
C/2014 Q2	2015 07 01.85196	14 48 34.35	+73 16 47.4	13.5	N	K61
C/2014 Q2	2015 07 01.92171	14 48 36.58	+73 14 35.8	13.3	N	C23
C/2014 Q2	2015 07 01.92396	14 48 36.69	+73 14 31.7	13.4	N	C23
C/2014 Q2	2015 07 01.92566	14 48 36.55	+73 14 25.9	12.9	N	215
C/2014 Q2	2015 07 01.92620	14 48 36.74	+73 14 27.4	13.3	N	C23
C/2014 Q2	2015 07 01.92668	14 48 36.68	+73 14 26.2	13.3	N	215
C/2014 Q2	2015 07 01.92799	14 48 36.73	+73 14 23.8	13.2	N	215
C/2014 Q2	2015 07 01.92926	14 48 36.78	+73 14 21.5	13.3	N	215
C/2014 Q2	2015 07 01.93053	14 48 36.81	+73 14 19.0	13.2	N	215
C/2014 Q2	2015 07 02.92436	14 49 10.07	+72 43 13.3	13.0	T	152
C/2014 Q2	2015 07 02.92458	14 49 10.08	+72 43 11.8	12.8	T	152
C/2014 Q2	2015 07 02.92638	14 49 10.29	+72 43 06.8	13.0	T	152
C/2014 Q2	2015 07 02.94002	14 49 10.48	+72 42 42.6	12.5	T	152
C/2014 Q2	2015 07 02.94012	14 49 11.64	+72 42 40.3	12.8	T	152
C/2014 Q2	2015 07 02.94735	14 49 11.30	+72 42 27.9	12.5	T	152
C/2014 Q2	2015 07 03.96698	14 49 46.53	+72 10 29.7	10.9	N	A98
C/2014 Q2	2015 07 03.96772	14 49 46.54	+72 10 28.5	10.9	N	A98
C/2014 Q2	2015 07 03.96852	14 49 46.43	+72 10 27.0	11.2	N	A98
C/2014 Q2	2015 07 03.97069	14 49 46.51	+72 10 25.2	11.2	N	A98
C/2014 Q2	2015 07 03.97275	14 49 46.82	+72 10 21.0	10.9	N	A98
C/2014 Q2	2015 07 03.97656	14 49 47.06	+72 10 13.6	10.9	N	A98
C/2014 Q2	2015 07 04.95027	14 50 23.08	+71 39 49.8	13.1	N	9 G40
C/2014 Q2	2015 07 04.95112	14 50 23.09	+71 39 48.4	13.2	N	9 G40
C/2014 Q2	2015 07 04.95197	14 50 23.14	+71 39 46.8	13.2	N	9 G40
C/2014 Q2	2015 07 04.99358	14 50 24.50	+71 38 26.3	12.7	N	B82
C/2014 Q2	2015 07 04.99596	14 50 24.59	+71 38 21.9	12.7	N	B82
C/2014 Q2	2015 07 05.00389	14 50 24.89	+71 38 06.9	12.7	N	B82
C/2014 Q2	2015 07 05.00864	14 50 25.06	+71 37 57.9	12.7	N	B82
C/2014 Q2	2015 07 05.91463	14 50 59.70	+71 09 39.2	13.4	N	A77
C/2014 Q2	2015 07 05.91771	14 50 59.80	+71 09 33.0	13.4	N	A77
C/2014 Q2	2015 07 05.92080	14 50 59.97	+71 09 27.8	13.4	N	A77
C/2014 Q2	2015 07 05.92351	14 51 00.02	+71 09 22.6	13.4	N	A77
C/2014 Q2	2015 07 05.92668	14 51 00.13	+71 09 16.5	13.4	N	A77
C/2014 Q2	2015 07 05.92877	14 51 00.22	+71 09 12.8	13.4	N	A77
C/2014 Q2	2015 07 06.87672	14 51 37.34	+70 39 33.5	13.6	N	L04
C/2014 Q2	2015 07 06.88200	14 51 37.52	+70 39 23.4	13.5	N	L04
C/2014 Q2	2015 07 06.88611	14 51 37.68	+70 39 15.6	13.5	N	L04
C/2014 Q2	2015 07 06.89308	14 51 38.01	+70 39 02.6	13.6	N	L04
C/2014 Q2	2015 07 06.90084	14 51 38.33	+70 38 48.7	13.3	N	K K25
C/2014 Q2	2015 07 06.90909	14 51 38.67	+70 38 33.4	13.3	N	K K25
C/2014 Q2	2015 07 06.91795	14 51 39.04	+70 38 16.6	13.4	N	K K25
C/2014 Q2	2015 07 06.92477	14 51 39.29	+70 38 03.2	13.3	N	C23
C/2014 Q2	2015 07 06.92536	14 51 39.40	+70 38 02.8	13.3	N	B96
C/2014 Q2	2015 07 06.93212	14 51 39.55	+70 37 50.5	13.2	N	B96
C/2014 Q2	2015 07 06.93645	14 51 39.73	+70 37 41.3	13.4	N	C23
C/2014 Q2	2015 07 06.93722	14 51 39.84	+70 37 39.8	13.2	N	B96
C/2014 Q2	2015 07 06.94397	14 51 40.06	+70 37 27.9	13.2	N	B96
C/2014 Q2	2015 07 06.94918	14 51 40.20	+70 37 17.1	13.2	N	C23
C/2014 Q2	2015 07 06.95041	14 51 40.19	+70 37 15.3	12.6	N	J38
C/2014 Q2	2015 07 06.95061	14 51 40.36	+70 37 15.1	13.2	N	B96
C/2014 Q2	2015 07 06.95478	14 51 40.51	+70 37 07.2	12.6	N	J38
C/2014 Q2	2015 07 06.95587	14 51 40.53	+70 37 05.2	12.6	N	J38
C/2014 Q2	2015 07 06.95725	14 51 40.60	+70 37 02.6	13.2	N	B96
C/2014 Q2	2015 07 06.96389	14 51 40.85	+70 36 50.3	13.2	N	B96
C/2014 Q2	2015 07 07.06954	14 51 44.99	+70 33 30.7	13.2	N	B96
C/2014 Q2	2015 07 07.07464	14 51 45.15	+70 33 20.9	13.1	N	B96
C/2014 Q2	2015 07 07.08141	14 51 45.44	+70 33 07.9	13.2	N	B96
C/2014 Q2	2015 07 07.08816	14 51 45.71	+70 32 55.2	13.1	N	B96
C/2014 Q2	2015 07 07.09480	14 51 46.03	+70 32 42.7	13.2	N	B96
C/2014 Q2	2015 07 08.94830	14 53 02.20	+69 34 50.8	12.7	N	I72
C/2014 Q2	2015 07 08.95123	14 53 02.31	+69 34 45.2	12.7	N	I72
C/2014 Q2	2015 07 08.95416	14 53 02.43	+69 34 39.7	12.7	N	I72
C/2014 Q2	2015 07 09.89310	14 53 42.32	+69 05 20.9	10.9	N	C36

C/2014 Q2	2015 07 09.89549	14 53 42.40	+69 05 15.8	10.9	N	C36
C/2014 Q2	2015 07 09.89682	14 53 42.56	+69 05 12.9	10.9	N	C36
C/2014 Q2	2015 07 09.89804	14 53 42.53	+69 05 10.6	10.9	N	C36
C/2014 Q2	2015 07 09.89938	14 53 42.46	+69 05 08.1	11.0	N	C36
C/2014 Q2	2015 07 09.90095	14 53 42.65	+69 05 05.5	10.9	N	C36
C/2014 Q2	2015 07 09.90479	14 53 42.90	+69 04 59.2	12.8	N	B82
C/2014 Q2	2015 07 09.90602	14 53 42.98	+69 04 57.5	14.8	N	C47
C/2014 Q2	2015 07 09.90628	14 53 42.96	+69 04 56.4	12.8	N	B82
C/2014 Q2	2015 07 09.90778	14 53 43.02	+69 04 53.6	12.8	N	B82
C/2014 Q2	2015 07 09.90860	14 53 43.06	+69 04 52.5	14.7	N	C47
C/2014 Q2	2015 07 09.90928	14 53 43.09	+69 04 50.8	12.8	N	B82
C/2014 Q2	2015 07 09.91155	14 53 43.08	+69 04 47.1	14.8	N	C47
C/2014 Q2	2015 07 09.91442	14 53 43.37	+69 04 41.0	13.3	N	B96
C/2014 Q2	2015 07 09.91450	14 53 43.27	+69 04 41.3	14.8	N	C47
C/2014 Q2	2015 07 09.91746	14 53 43.38	+69 04 35.6	15.0	N	C47
C/2014 Q2	2015 07 09.91786	14 53 43.52	+69 04 35.7	12.8	N	C86
C/2014 Q2	2015 07 09.91863	14 53 43.51	+69 04 34.3	12.8	N	C86
C/2014 Q2	2015 07 09.92041	14 53 43.54	+69 04 30.6	14.9	N	C47
C/2014 Q2	2015 07 09.92132	14 53 43.67	+69 04 29.1	14.4	N	B96
C/2014 Q2	2015 07 09.92172	14 53 43.70	+69 04 28.6	12.8	N	C86
C/2014 Q2	2015 07 09.92807	14 53 44.05	+69 04 16.4	14.3	N	B96
C/2014 Q2	2015 07 09.93470	14 53 44.25	+69 04 04.3	14.3	N	B96
C/2014 Q2	2015 07 09.93589	14 53 44.23	+69 04 01.3	13.5	N	C23
C/2014 Q2	2015 07 09.93814	14 53 44.32	+69 03 57.0	13.4	N	C23
C/2014 Q2	2015 07 09.94038	14 53 44.42	+69 03 52.8	13.3	N	C23
C/2014 Q2	2015 07 09.94134	14 53 44.57	+69 03 51.6	14.2	N	B96
C/2014 Q2	2015 07 09.94797	14 53 44.74	+69 03 39.2	14.2	N	B96
C/2014 Q2	2015 07 10.04280	14 53 48.86	+69 00 40.5	14.1	N	B96
C/2014 Q2	2015 07 10.04791	14 53 48.99	+69 00 30.9	14.2	N	B96
C/2014 Q2	2015 07 10.05479	14 53 49.25	+69 00 18.0	14.2	N	B96
C/2014 Q2	2015 07 10.06142	14 53 49.61	+69 00 05.8	14.1	N	B96
C/2014 Q2	2015 07 10.06807	14 53 49.85	+68 59 53.1	14.1	N	B96
C/2014 Q2	2015 07 10.86826	14 54 24.85	+68 34 59.0	12.6	N	C35
C/2014 Q2	2015 07 10.87699	14 54 25.22	+68 34 42.3	12.5	N	C35
C/2014 Q2	2015 07 10.88197	14 54 25.52	+68 34 32.5	14.8	N	C47
C/2014 Q2	2015 07 10.88455	14 54 25.62	+68 34 27.3	14.5	N	C47
C/2014 Q2	2015 07 10.88750	14 54 25.73	+68 34 22.5	14.7	N	C47
C/2014 Q2	2015 07 10.88865	14 54 25.78	+68 34 20.3	12.6	N	C35
C/2014 Q2	2015 07 10.89045	14 54 25.81	+68 34 16.4	14.4	N	C47
C/2014 Q2	2015 07 10.89341	14 54 25.93	+68 34 11.3	14.8	N	C47
C/2014 Q2	2015 07 10.89673	14 54 26.09	+68 34 04.7	14.8	N	C47
C/2014 Q2	2015 07 10.90416	14 54 26.43	+68 33 50.6	13.3	N	C23
C/2014 Q2	2015 07 10.90641	14 54 26.53	+68 33 46.4	13.3	N	C23
C/2014 Q2	2015 07 10.90866	14 54 26.63	+68 33 42.1	13.3	N	C23
C/2014 Q2	2015 07 10.90942	14 54 26.62	+68 33 41.1	14.1	N	B83
C/2014 Q2	2015 07 10.92660	14 54 27.35	+68 33 08.6	14.1	N	107
C/2014 Q2	2015 07 10.93399	14 54 27.62	+68 32 54.3	12.6	N	B82
C/2014 Q2	2015 07 10.93848	14 54 27.82	+68 32 45.8	12.6	N	B82
C/2014 Q2	2015 07 10.94096	14 54 27.90	+68 32 42.0	14.1	N	B83
C/2014 Q2	2015 07 10.94147	14 54 27.93	+68 32 40.1	12.6	N	B82
C/2014 Q2	2015 07 10.94276	14 54 28.12	+68 32 39.6	12.7	N	I99
C/2014 Q2	2015 07 10.94437	14 54 28.18	+68 32 36.4	12.7	N	I99
C/2014 Q2	2015 07 10.94727	14 54 28.28	+68 32 30.6	12.5	N	C86
C/2014 Q2	2015 07 10.94804	14 54 28.31	+68 32 29.3	12.5	N	C86
C/2014 Q2	2015 07 10.94828	14 54 28.33	+68 32 28.7	12.7	N	I99
C/2014 Q2	2015 07 10.94962	14 54 28.36	+68 32 26.2	12.5	N	C86
C/2014 Q2	2015 07 10.95045	14 54 28.31	+68 32 23.3	12.6	N	B82
C/2014 Q2	2015 07 10.95295	14 54 28.45	+68 32 19.6	14.1	N	107
C/2014 Q2	2015 07 10.95644	14 54 28.57	+68 32 11.9	12.6	N	B82
C/2014 Q2	2015 07 10.96773	14 54 29.11	+68 31 50.9	12.7	N	247
C/2014 Q2	2015 07 10.96773	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.96902	14 54 29.13	+68 31 48.6			247
C/2014 Q2	2015 07 10.96902	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.96977	14 54 29.22	+68 31 47.2			247
C/2014 Q2	2015 07 10.96977	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.97015	14 54 29.23	+68 31 46.3			247
C/2014 Q2	2015 07 10.97015	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.97090	14 54 29.24	+68 31 45.0			247
C/2014 Q2	2015 07 10.97090	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.97204	14 54 29.32	+68 31 42.6			247
C/2014 Q2	2015 07 10.97204	1 24.0062	+49.8483	289		247
C/2014 Q2	2015 07 10.97317	14 54 29.24	+68 31 41.5	14.3	N	B83
C/2014 Q2	2015 07 10.98016	14 54 29.54	+68 31 28.1	14.1	N	107
C/2014 Q2	2015 07 11.50653	14 54 53.11	+68 15 05.4	9.8	T	349
C/2014 Q2	2015 07 11.50817	14 54 53.21	+68 15 02.5			349
C/2014 Q2	2015 07 11.50983	14 54 53.25	+68 14 59.2			349
C/2014 Q2	2015 07 11.86853	14 55 09.29	+68 03 49.3	14.8	N	C47
C/2014 Q2	2015 07 11.87148	14 55 09.44	+68 03 43.9	14.7	N	C47
C/2014 Q2	2015 07 11.87480	14 55 09.56	+68 03 37.8	14.9	N	C47
C/2014 Q2	2015 07 11.87812	14 55 09.76	+68 03 31.8	14.7	N	C47
C/2014 Q2	2015 07 11.88144	14 55 09.85	+68 03 25.6	14.9	N	C47
C/2014 Q2	2015 07 11.88439	14 55 10.00	+68 03 20.3	14.7	N	C47
C/2014 Q2	2015 07 11.88772	14 55 10.10	+68 03 13.7	15.0	N	C47
C/2014 Q2	2015 07 11.90162	14 55 10.76	+68 02 47.0	12.5	N	B82
C/2014 Q2	2015 07 11.90311	14 55 10.82	+68 02 44.0	12.5	N	B82
C/2014 Q2	2015 07 11.90610	14 55 10.95	+68 02 38.7	12.5	N	B82
C/2014 Q2	2015 07 11.90759	14 55 11.01	+68 02 35.9	12.5	N	B82
C/2014 Q2	2015 07 11.91656	14 55 11.41	+68 02 19.0	12.5	N	B82
C/2014 Q2	2015 07 11.91806	14 55 11.47	+68 02 16.2	12.5	N	B82
C/2014 Q2	2015 07 11.91955	14 55 11.54	+68 02 13.5	12.5	N	B82
C/2014 Q2	2015 07 11.92104	14 55 11.59	+68 02 10.5	12.5	N	B82
C/2014 Q2	2015 07 11.92253	14 55 11.66	+68 02 07.7	12.5	N	B82
C/2014 Q2	2015 07 11.92931	14 55 11.98	+68 01 55.5	13.3	N	C23
C/2014 Q2	2015 07 11.93905	14 55 12.41	+68 01 37.3	13.4	N	C23
C/2014 Q2	2015 07 11.95103	14 55 12.94	+68 01 14.8	13.4	N	C23
C/2014 Q2	2015 07 12.88054	14 55 55.29	+67 32 22.5	12.6	N	I99
C/2014 Q2	2015 07 12.88136	14 55 55.31	+67 32 21.0	12.5	N	I99
C/2014 Q2	2015 07 12.88374	14 55 55.39	+67 32 16.4	12.5	N	I99
C/2014 Q2	2015 07 12.90251	14 55 56.18	+67 31 41.3	12.6	N	C90
C/2014 Q2	2015 07 12.90694	14 55 56.41	+67 31 32.8	12.6	N	C90
C/2014 Q2	2015 07 12.91152	14 55 56.57	+67 31 24.2	12.6	N	C90
C/2014 Q2	2015 07 12.95899	14 55 58.66	+67 29 55.2	12.5	N	I72
C/2014 Q2	2015 07 12.96029	14 55 58.73	+67 29 52.8	12.5	N	J38
C/2014 Q2	2015 07 12.96042	14 55 58.71	+67 29 52.6	12.6	N	I72
C/2014 Q2	2015 07 12.96138	14 55 58.76	+67 29 50.7	12.5	N	J38
C/2014 Q2	2015 07 12.96247	14 55 58.80	+67 29 48.7	12.5	N	J38

C/2014 Q2	2015 07 12.96332	14 55 58.84	+67 29 47.1	12.6	N	I72
C/2014 Q2	2015 07 13.90720	14 56 42.57	+67 00 29.9	13.6	N	J01
C/2014 Q2	2015 07 13.92038	14 56 43.16	+67 00 05.4	13.6	N	J01
C/2014 Q2	2015 07 13.94016	14 56 44.07	+66 59 27.9	13.7	N	J01
C/2014 Q2	2015 07 13.97142	14 56 45.46	+66 58 29.6	12.5	N	J38
C/2014 Q2	2015 07 13.97252	14 56 45.49	+66 58 27.6	12.5	N	J38
C/2014 Q2	2015 07 13.97361	14 56 45.52	+66 58 25.6	12.5	N	J38
C/2014 Q2	2015 07 14.64965	14 57 17.05	+66 37 26.2			372
C/2014 Q2	2015 07 14.65278	14 57 17.18	+66 37 20.5	9.6	T	372
C/2014 Q2	2015 07 14.83042	14 57 25.92	+66 31 52.7	13.7	N	L04
C/2014 Q2	2015 07 14.83766	14 57 26.19	+66 31 39.0	13.6	N	L04
C/2014 Q2	2015 07 14.84240	14 57 26.44	+66 31 29.9	13.7	N	L04
C/2014 Q2	2015 07 14.84657	14 57 26.59	+66 31 22.4	13.6	N	L04
C/2014 Q2	2015 07 14.87876	14 57 28.15	+66 30 22.9	12.6	N	213
C/2014 Q2	2015 07 14.88492	14 57 28.44	+66 30 11.9	12.7	N	213
C/2014 Q2	2015 07 14.89431	14 57 28.89	+66 29 53.5	14.0	N	595
C/2014 Q2	2015 07 14.89624	14 57 29.08	+66 29 50.8	12.6	N	213
C/2014 Q2	2015 07 14.91245	14 57 29.69	+66 29 19.6	13.9	N	595
C/2014 Q2	2015 07 14.93056	14 57 30.54	+66 28 45.8	14.0	N	595
C/2014 Q2	2015 07 15.20845	14 57 43.74	+66 20 10.8	12.8	N	30H06
C/2014 Q2	2015 07 15.20959	14 57 43.80	+66 20 08.7	12.8	N	30H06
C/2014 Q2	2015 07 15.21074	14 57 43.85	+66 20 06.5	12.8	N	30H06
C/2014 Q2	2015 07 15.21189	14 57 43.91	+66 20 04.3	12.8	N	30H06
C/2014 Q2	2015 07 15.21304	14 57 43.95	+66 20 02.2	12.8	N	30H06
C/2014 Q2	2015 07 15.21419	14 57 44.01	+66 20 00.1	12.8	N	30H06
C/2014 Q2	2015 07 15.22704	14 57 44.54	+66 19 36.0	13.7	N	L H06
C/2014 Q2	2015 07 15.22750	14 57 44.58	+66 19 34.8	13.6	N	L H06
C/2014 Q2	2015 07 15.22795	14 57 44.59	+66 19 34.3	13.8	N	L H06
C/2014 Q2	2015 07 15.22841	14 57 44.62	+66 19 33.5	13.7	N	L H06
C/2014 Q2	2015 07 15.22887	14 57 44.62	+66 19 32.4	13.7	N	L H06
C/2014 Q2	2015 07 15.22932	14 57 44.65	+66 19 31.5	13.7	N	L H06
C/2014 Q2	2015 07 15.51094	14 57 58.26	+66 10 49.4			367
C/2014 Q2	2015 07 15.51377	14 57 58.39	+66 10 44.2			367
C/2014 Q2	2015 07 15.51661	14 57 58.52	+66 10 38.9	9.5	T	367
C/2014 Q2	2015 07 15.87980	14 58 15.94	+65 59 24.7	15.1	N	C47
C/2014 Q2	2015 07 15.88238	14 58 16.05	+65 59 20.1	15.0	N	C47
C/2014 Q2	2015 07 15.88533	14 58 16.15	+65 59 14.6	15.0	N	C47
C/2014 Q2	2015 07 15.88828	14 58 16.34	+65 59 08.9	15.0	N	C47
C/2014 Q2	2015 07 15.89124	14 58 16.50	+65 59 03.4	15.0	N	C47
C/2014 Q2	2015 07 15.89419	14 58 16.61	+65 58 57.8	15.1	N	C47
C/2014 Q2	2015 07 15.97015	14 58 20.01	+65 56 35.9	12.6	N	A77
C/2014 Q2	2015 07 15.97160	14 58 20.02	+65 56 34.0	12.8	N	A77
C/2014 Q2	2015 07 15.97277	14 58 20.27	+65 56 32.4	12.6	N	A77
C/2014 Q2	2015 07 16.87847	14 59 04.27	+65 28 34.4	12.5	N	B82
C/2014 Q2	2015 07 16.87997	14 59 04.34	+65 28 31.6	12.5	N	B82
C/2014 Q2	2015 07 16.88146	14 59 04.40	+65 28 28.9	12.5	N	B82
C/2014 Q2	2015 07 16.88295	14 59 04.47	+65 28 26.1	12.5	N	B82
C/2014 Q2	2015 07 16.88446	14 59 04.54	+65 28 23.3	12.5	N	B82
C/2014 Q2	2015 07 16.90331	14 59 05.45	+65 27 49.0	13.6	N	B51
C/2014 Q2	2015 07 16.90736	14 59 05.60	+65 27 41.6	13.6	N	B51
C/2014 Q2	2015 07 16.91147	14 59 05.81	+65 27 34.0	13.6	N	B51
C/2014 Q2	2015 07 16.91549	14 59 05.98	+65 27 26.6	13.6	N	B51
C/2014 Q2	2015 07 16.93525	14 59 06.79	+65 26 46.8	12.8	N	B51
C/2014 Q2	2015 07 16.93861	14 59 07.09	+65 26 42.1	12.8	N	B51
C/2014 Q2	2015 07 16.94194	14 59 06.95	+65 26 33.6	12.6	N	B51
C/2014 Q2	2015 07 16.94532	14 59 07.42	+65 26 27.4	12.8	N	B51
C/2014 Q2	2015 07 17.06656	14 59 13.38	+65 22 45.2			I15
C/2014 Q2	2015 07 17.07040	14 59 13.57	+65 22 38.1			I15
C/2014 Q2	2015 07 17.07501	14 59 13.75	+65 22 29.4			I15
C/2014 Q2	2015 07 17.89315	14 59 54.07	+64 57 19.0	12.5	N	B82
C/2014 Q2	2015 07 17.89473	14 59 54.15	+64 57 16.0	12.4	N	B82
C/2014 Q2	2015 07 17.89574	14 59 54.23	+64 57 14.5	13.5	N	C23
C/2014 Q2	2015 07 17.89633	14 59 54.22	+64 57 13.0	12.4	N	B82
C/2014 Q2	2015 07 17.89648	14 59 54.27	+64 57 13.1	13.6	N	C23
C/2014 Q2	2015 07 17.90842	14 59 54.83	+64 56 51.8	13.6	N	K K25
C/2014 Q2	2015 07 17.91420	14 59 55.09	+64 56 40.8	13.6	N	K K25
C/2014 Q2	2015 07 17.91562	14 59 55.21	+64 56 38.5	13.2	N	J01
C/2014 Q2	2015 07 17.91998	14 59 55.39	+64 56 30.4	13.6	N	K K25
C/2014 Q2	2015 07 17.92002	14 59 55.40	+64 56 30.6	13.1	N	J01
C/2014 Q2	2015 07 17.94641	14 59 56.74	+64 55 40.8	13.2	N	J01
C/2014 Q2	2015 07 18.58348	15 00 28.21	+64 36 05.4			D81
C/2014 Q2	2015 07 18.58367	15 00 28.19	+64 36 05.3			D81
C/2014 Q2	2015 07 18.58384	15 00 28.20	+64 36 04.8			D81
C/2014 Q2	2015 07 18.58403	15 00 28.20	+64 36 05.1	9.6	T	D81
C/2014 Q2	2015 07 18.99102	15 00 48.66	+64 23 35.1	12.4	N	I72
C/2014 Q2	2015 07 18.99397	15 00 48.84	+64 23 29.9	12.4	N	I72
C/2014 Q2	2015 07 18.99690	15 00 48.95	+64 23 24.6	12.5	N	I72
C/2014 Q2	2015 07 19.89653	15 01 34.52	+63 55 50.7	13.4	N	B96
C/2014 Q2	2015 07 19.90163	15 01 34.80	+63 55 41.3	13.3	N	B96
C/2014 Q2	2015 07 19.90686	15 01 34.97	+63 55 31.9	13.4	N	B96
C/2014 Q2	2015 07 19.91184	15 01 35.27	+63 55 22.2	13.4	N	B96
C/2014 Q2	2015 07 19.91682	15 01 35.54	+63 55 13.3	13.3	N	B96
C/2014 Q2	2015 07 19.92013	15 01 35.62	+63 55 06.8	13.3	N	B96
C/2014 Q2	2015 07 19.95116	15 01 37.14	+63 54 09.7	13.6	N	C23
C/2014 Q2	2015 07 19.95416	15 01 37.29	+63 54 04.2	13.7	N	C23
C/2014 Q2	2015 07 19.95941	15 01 37.54	+63 53 54.4	13.6	N	C23
C/2014 Q2	2015 07 20.88733	15 02 24.94	+63 25 33.2	15.2	N	C47
C/2014 Q2	2015 07 20.88954	15 02 25.03	+63 25 29.4	15.1	N	C47
C/2014 Q2	2015 07 20.89213	15 02 25.17	+63 25 24.7	15.1	N	C47
C/2014 Q2	2015 07 20.89471	15 02 25.31	+63 25 20.2	15.0	N	C47
C/2014 Q2	2015 07 20.89729	15 02 25.43	+63 25 15.2	15.0	N	C47
C/2014 Q2	2015 07 20.89988	15 02 25.59	+63 25 10.5	15.0	N	C47
C/2014 Q2	2015 07 20.90209	15 02 25.66	+63 25 06.3	15.2	N	C47
C/2014 Q2	2015 07 21.86910	15 03 15.53	+62 55 38.2	15.1	N	C47
C/2014 Q2	2015 07 21.87168	15 03 15.65	+62 55 33.6	15.0	N	C47
C/2014 Q2	2015 07 21.87254	15 03 15.70	+62 55 32.1	14.1	N	K B75
C/2014 Q2	2015 07 21.87327	15 03 15.74	+62 55 30.8	14.1	N	K B75
C/2014 Q2	2015 07 21.87399	15 03 15.75	+62 55 29.4	14.1	N	K B75
C/2014 Q2	2015 07 21.87464	15 03 15.82	+62 55 28.3	15.0	N	C47
C/2014 Q2	2015 07 21.87472	15 03 15.78	+62 55 28.0	14.0	N	K B75
C/2014 Q2	2015 07 21.87759	15 03 15.94	+62 55 22.5	15.1	N	C47
C/2014 Q2	2015 07 21.87797	15 03 16.02	+62 55 21.0	12.7	N	B82
C/2014 Q2	2015 07 21.88017	15 03 16.07	+62 55 18.3	15.0	N	C47
C/2014 Q2	2015 07 21.88312	15 03 16.21	+62 55 12.3	15.2	N	C47
C/2014 Q2	2015 07 21.88580	15 03 16.40	+62 55 06.7	12.8	N	B82
C/2014 Q2	2015 07 21.88608	15 03 16.37	+62 55 07.0	15.2	N	C47

C/2014 Q2	2015 07 21.89362	15 03 16.80	+62 54 52.4	12.8	N	B82
C/2014 Q2	2015 07 21.90145	15 03 17.20	+62 54 38.1	12.7	N	B82
C/2014 Q2	2015 07 21.90928	15 03 17.60	+62 54 23.5	12.8	N	B82
C/2014 Q2	2015 07 22.90807	15 04 09.64	+62 24 04.0	14.0	N	J01
C/2014 Q2	2015 07 22.92126	15 04 10.35	+62 23 39.5	14.0	N	J01
C/2014 Q2	2015 07 22.92451	15 04 10.47	+62 23 33.7	13.0	N	I72
C/2014 Q2	2015 07 22.93007	15 04 10.75	+62 23 23.7	14.0	N	J01
C/2014 Q2	2015 07 22.93174	15 04 10.84	+62 23 20.5	13.0	N	I72
C/2014 Q2	2015 07 22.93753	15 04 11.14	+62 23 09.9	13.0	N	I72
C/2014 Q2	2015 07 24.87102	15 05 53.32	+61 24 42.7	13.4	N	939
C/2014 Q2	2015 07 24.87927	15 05 53.74	+61 24 27.8	13.4	N	939
C/2014 Q2	2015 07 24.88396	15 05 53.98	+61 24 19.3	13.4	N	939
C/2014 Q2	2015 07 25.70480	15 06 37.68	+60 59 34.9			367
C/2014 Q2	2015 07 25.70723	15 06 37.82	+60 59 30.7			367
C/2014 Q2	2015 07 25.70966	15 06 37.95	+60 59 26.3	9.9	T	367
C/2014 Q2	2015 07 25.72209	15 06 38.62	+60 59 05.8	14.6	N	N55
C/2014 Q2	2015 07 25.72426	15 06 38.71	+60 59 01.8	14.5	N	N55
C/2014 Q2	2015 07 25.72642	15 06 38.79	+60 58 57.9	14.5	N	N55
C/2014 Q2	2015 07 25.72859	15 06 38.90	+60 58 53.9	14.5	N	N55
C/2014 Q2	2015 07 25.73075	15 06 39.01	+60 58 50.1	14.6	N	N55
C/2014 Q2	2015 07 25.89370	15 06 48.09	+60 53 56.8	14.8	N	B96
C/2014 Q2	2015 07 25.89868	15 06 48.36	+60 53 47.5	14.9	N	B96
C/2014 Q2	2015 07 25.90698	15 06 48.79	+60 53 32.7	14.8	N	B96
C/2014 Q2	2015 07 25.94114	15 06 50.52	+60 52 30.5	13.7	N	C23
C/2014 Q2	2015 07 25.94639	15 06 50.80	+60 52 21.1	13.8	N	C23
C/2014 Q2	2015 07 25.95088	15 06 51.04	+60 52 12.9	13.8	N	C23
C/2014 Q2	2015 07 25.96399	15 06 51.76	+60 51 50.2	13.2	N	J38
C/2014 Q2	2015 07 25.96726	15 06 51.91	+60 51 44.1	13.3	N	J38
C/2014 Q2	2015 07 25.96944	15 06 52.07	+60 51 39.9	13.2	N	J38
C/2014 Q2	2015 07 26.91867	15 07 43.25	+60 23 14.5	13.4	N	213
C/2014 Q2	2015 07 26.93532	15 07 44.19	+60 22 44.8	13.4	N	213
C/2014 Q2	2015 07 26.95399	15 07 45.25	+60 22 10.2	13.4	N	213
C/2014 Q2	2015 07 27.86541	15 08 34.90	+59 54 58.3	13.4	N	J36
C/2014 Q2	2015 07 27.87571	15 08 35.44	+59 54 40.3	13.3	N	J36
C/2014 Q2	2015 07 27.88084	15 08 35.71	+59 54 31.2	13.4	N	J36
C/2014 Q2	2015 07 28.90972	15 09 32.08	+59 23 55.0	13.3	N	J36
C/2014 Q2	2015 07 28.91212	15 09 32.19	+59 23 50.8	13.3	N	J36
C/2014 Q2	2015 07 28.92434	15 09 32.83	+59 23 28.9	13.3	N	J36
C/2014 Q2	2015 07 29.00997	15 09 37.51	+59 20 55.1	14.0	N	C23
C/2014 Q2	2015 07 29.01296	15 09 37.66	+59 20 49.8	13.8	N	C23
C/2014 Q2	2015 07 29.01521	15 09 37.81	+59 20 45.4	14.0	N	C23
C/2014 Q2	2015 07 29.19676	15 09 47.76	+59 15 23.6	13.4	N	G68
C/2014 Q2	2015 07 29.20718	15 09 48.25	+59 15 04.6	13.4	N	G68
C/2014 Q2	2015 07 29.21759	15 09 48.96	+59 14 47.1	13.5	N	G68
C/2014 Q2	2015 07 29.22801	15 09 49.52	+59 14 27.7	13.4	N	G68
C/2014 Q2	2015 07 29.23843	15 09 50.04	+59 14 09.9	13.4	N	G68
C/2014 Q2	2015 07 29.85522	15 10 24.25	+58 55 54.3	13.4	N	B82
C/2014 Q2	2015 07 29.85970	15 10 24.50	+58 55 46.3	13.4	N	B82
C/2014 Q2	2015 07 29.86269	15 10 24.67	+58 55 41.1	13.4	N	B82
C/2014 Q2	2015 07 29.90640	15 10 27.02	+58 54 24.8	13.3	N	J36
C/2014 Q2	2015 07 29.91500	15 10 27.54	+58 54 08.7	13.4	N	I72
C/2014 Q2	2015 07 29.91574	15 10 27.60	+58 54 08.0	13.4	N	I72
C/2014 Q2	2015 07 29.91728	15 10 27.73	+58 54 04.5	13.4	N	I72
C/2014 Q2	2015 07 29.92503	15 10 28.04	+58 53 51.1	13.3	N	J36
C/2014 Q2	2015 07 29.92924	15 10 28.30	+58 53 43.6	13.3	N	J36
C/2014 Q2	2015 07 31.03661	15 11 29.78	+58 21 03.5	14.0	N	C23
C/2014 Q2	2015 07 31.03885	15 11 29.91	+58 20 59.5	13.9	N	C23
C/2014 Q2	2015 07 31.04110	15 11 30.02	+58 20 55.4	13.8	N	C23
C/2014 Q2	2015 07 31.86979	15 12 16.55	+57 56 38.5	14.5	N	J01
C/2014 Q2	2015 07 31.87860	15 12 16.95	+57 56 23.0	14.5	N	J01
C/2014 Q2	2015 07 31.88300	15 12 17.20	+57 56 15.3	14.5	N	J01
C/2014 Q2	2015 08 01.88261	15 13 13.36	+57 27 01.2	13.8	N	C23
C/2014 Q2	2015 08 01.88486	15 13 13.48	+57 26 57.7	13.9	N	C23
C/2014 Q2	2015 08 01.88627	15 13 13.64	+57 26 55.6	15.4	N	B96
C/2014 Q2	2015 08 01.88786	15 13 13.64	+57 26 52.3	13.9	N	C23
C/2014 Q2	2015 08 01.90490	15 13 15.09	+57 26 22.7	14.3	N	B96
C/2014 Q2	2015 08 01.91319	15 13 15.68	+57 26 07.3	14.3	N	B96
C/2014 Q2	2015 08 01.92950	15 13 16.01	+57 25 40.4	13.8	N	J36
C/2014 Q2	2015 08 01.93513	15 13 16.31	+57 25 30.1	13.8	N	J36
C/2014 Q2	2015 08 01.93694	15 13 16.38	+57 25 27.3	13.9	N	I72
C/2014 Q2	2015 08 01.93983	15 13 16.54	+57 25 22.1	13.9	N	I72
C/2014 Q2	2015 08 01.94279	15 13 16.70	+57 25 16.8	13.9	N	I72
C/2014 Q2	2015 08 01.94554	15 13 16.89	+57 25 11.7	13.7	N	J36
C/2014 Q2	2015 08 02.85523	15 14 08.38	+56 58 43.9	13.8	N	B82
C/2014 Q2	2015 08 02.85672	15 14 08.46	+56 58 41.3	13.8	N	B82
C/2014 Q2	2015 08 02.85750	15 14 08.55	+56 58 41.4	14.8	N	K A77
C/2014 Q2	2015 08 02.85822	15 14 08.54	+56 58 38.6	13.7	N	B82
C/2014 Q2	2015 08 02.86452	15 14 08.86	+56 58 28.3	14.8	N	K A77
C/2014 Q2	2015 08 02.87196	15 14 09.16	+56 58 14.4	14.9	N	K A77
C/2014 Q2	2015 08 02.87907	15 14 09.81	+56 58 03.2	13.9	N	C90
C/2014 Q2	2015 08 02.88174	15 14 09.96	+56 57 59.0	14.0	N	C90
C/2014 Q2	2015 08 02.88352	15 14 10.03	+56 57 55.8	14.0	N	C90
C/2014 Q2	2015 08 02.88870	15 14 10.24	+56 57 45.6	13.9	N	C86
C/2014 Q2	2015 08 02.89235	15 14 10.50	+56 57 39.5	13.8	N	C86
C/2014 Q2	2015 08 02.89598	15 14 10.73	+56 57 33.8	13.8	N	C86
C/2014 Q2	2015 08 03.85678	15 15 05.28	+56 29 44.8	13.9	N	B51
C/2014 Q2	2015 08 03.85808	15 15 05.38	+56 29 42.4	13.4	N	B82
C/2014 Q2	2015 08 03.85921	15 15 05.42	+56 29 40.7	13.9	N	B51
C/2014 Q2	2015 08 03.85956	15 15 05.47	+56 29 39.8	13.4	N	B82
C/2014 Q2	2015 08 03.86162	15 15 05.59	+56 29 36.8	13.9	N	B51
C/2014 Q2	2015 08 03.86403	15 15 05.71	+56 29 32.6	13.9	N	B51
C/2014 Q2	2015 08 03.86552	15 15 05.81	+56 29 29.4	13.4	N	B82
C/2014 Q2	2015 08 03.86650	15 15 05.85	+56 29 28.1	13.9	N	B51
C/2014 Q2	2015 08 03.86802	15 15 05.91	+56 29 25.0	13.7	N	K14
C/2014 Q2	2015 08 03.86891	15 15 05.98	+56 29 24.1	13.9	N	B51
C/2014 Q2	2015 08 03.87080	15 15 06.08	+56 29 19.8	15.4	N	C47
C/2014 Q2	2015 08 03.87316	15 15 06.19	+56 29 14.6	14.0	N	K B51
C/2014 Q2	2015 08 03.87438	15 15 06.28	+56 29 13.8	15.3	N	C47
C/2014 Q2	2015 08 03.87444	15 15 06.27	+56 29 14.1	13.6	N	K14
C/2014 Q2	2015 08 03.87810	15 15 06.46	+56 29 06.6	13.0	N	K B51
C/2014 Q2	2015 08 03.87868	15 15 06.48	+56 29 05.5	15.4	N	C47
C/2014 Q2	2015 08 03.87946	15 15 06.62	+56 29 06.4	13.9	N	9 G40
C/2014 Q2	2015 08 03.88120	15 15 06.72	+56 29 03.2	13.9	N	9 G40
C/2014 Q2	2015 08 03.88172	15 15 06.67	+56 29 00.9	13.6	N	K14
C/2014 Q2	2015 08 03.88175	15 15 06.54	+56 28 59.1	13.1	N	K B51
C/2014 Q2	2015 08 03.88298	15 15 06.80	+56 28 58.7	15.2	N	C47

C/2014 Q2	2015 08 03.88407	15 15 06.84	+56 28 58.4	13.8	N	9 G40
C/2014 Q2	2015 08 03.88563	15 15 06.85	+56 28 53.2	13.1	N	K B51
C/2014 Q2	2015 08 03.88579	15 15 06.98	+56 28 55.2	13.9	N	9 G40
C/2014 Q2	2015 08 03.88664	15 15 07.06	+56 28 54.1	13.7	N	9 G40
C/2014 Q2	2015 08 03.88727	15 15 06.93	+56 28 50.6	15.5	N	C47
C/2014 Q2	2015 08 03.88843	15 15 07.14	+56 28 50.8	13.8	N	9 G40
C/2014 Q2	2015 08 03.89157	15 15 07.23	+56 28 42.7	15.4	N	C47
C/2014 Q2	2015 08 03.89659	15 15 07.52	+56 28 34.7	15.4	N	C47
C/2014 Q2	2015 08 03.90088	15 15 07.83	+56 28 27.2	15.4	N	C47
C/2014 Q2	2015 08 03.91087	15 15 08.21	+56 28 08.6	11.7	N	C36
C/2014 Q2	2015 08 03.91211	15 15 08.36	+56 28 06.7	11.8	N	C36
C/2014 Q2	2015 08 03.91308	15 15 08.37	+56 28 05.1	11.7	N	C36
C/2014 Q2	2015 08 03.96023	15 15 11.08	+56 26 45.2	13.6	N	Z90
C/2014 Q2	2015 08 03.96392	15 15 11.32	+56 26 39.1	13.5	N	Z90
C/2014 Q2	2015 08 03.96611	15 15 11.46	+56 26 35.1	13.5	N	Z90
C/2014 Q2	2015 08 03.96949	15 15 11.66	+56 26 29.3	13.6	N	Z90
C/2014 Q2	2015 08 03.97168	15 15 11.75	+56 26 25.3	13.5	N	Z90
C/2014 Q2	2015 08 03.97385	15 15 11.88	+56 26 21.7	13.5	N	Z90
C/2014 Q2	2015 08 03.97604	15 15 12.01	+56 26 17.8	13.6	N	Z90
C/2014 Q2	2015 08 03.97823	15 15 12.15	+56 26 13.7	13.5	N	Z90
C/2014 Q2	2015 08 04.84346	15 16 01.81	+56 01 20.0	13.5	N	C86
C/2014 Q2	2015 08 04.84424	15 16 01.84	+56 01 18.7	13.5	N	C86
C/2014 Q2	2015 08 04.84579	15 16 01.92	+56 01 16.1	13.5	N	C86
C/2014 Q2	2015 08 04.86262	15 16 02.75	+56 00 46.1	13.5	N	939
C/2014 Q2	2015 08 04.86598	15 16 02.94	+56 00 40.2	13.5	N	939
C/2014 Q2	2015 08 04.86934	15 16 03.13	+56 00 34.3	13.5	N	939
C/2014 Q2	2015 08 04.89601	15 16 04.69	+55 59 47.7	13.9	N	C23
C/2014 Q2	2015 08 04.89711	15 16 04.79	+55 59 46.8	13.5	N	I72
C/2014 Q2	2015 08 04.89826	15 16 04.82	+55 59 43.8	13.9	N	C23
C/2014 Q2	2015 08 04.90008	15 16 04.96	+55 59 41.6	13.5	N	I72
C/2014 Q2	2015 08 04.90125	15 16 04.99	+55 59 38.4	13.7	N	C23
C/2014 Q2	2015 08 04.90308	15 16 05.12	+55 59 36.5	13.5	N	I72
C/2014 Q2	2015 08 05.84551	15 16 59.28	+55 32 35.5	15.4	N	C47
C/2014 Q2	2015 08 05.84772	15 16 59.43	+55 32 31.8	15.2	N	C47
C/2014 Q2	2015 08 05.84994	15 16 59.55	+55 32 27.6	15.3	N	C47
C/2014 Q2	2015 08 05.85214	15 16 59.68	+55 32 23.7	13.7	N	B82
C/2014 Q2	2015 08 05.85215	15 16 59.68	+55 32 24.0	15.3	N	C47
C/2014 Q2	2015 08 05.85436	15 16 59.79	+55 32 20.3	15.3	N	C47
C/2014 Q2	2015 08 05.85658	15 16 59.94	+55 32 16.4	15.3	N	C47
C/2014 Q2	2015 08 05.85916	15 17 00.10	+55 32 11.6	15.4	N	C47
C/2014 Q2	2015 08 05.86174	15 17 00.20	+55 32 07.0	15.6	N	C47
C/2014 Q2	2015 08 05.86539	15 17 00.43	+55 32 00.8	13.7	N	B82
C/2014 Q2	2015 08 05.86833	15 17 00.58	+55 31 55.7	13.7	N	B82
C/2014 Q2	2015 08 05.86968	15 17 00.71	+55 31 54.5	14.5	N	K A77
C/2014 Q2	2015 08 05.87062	15 17 00.81	+55 31 53.0	14.8	N	J01
C/2014 Q2	2015 08 05.87429	15 17 00.90	+55 31 44.6	14.1	N	K B51
C/2014 Q2	2015 08 05.87931	15 17 01.19	+55 31 37.2	13.1	N	K B51
C/2014 Q2	2015 08 05.87942	15 17 01.20	+55 31 38.0	14.5	N	K A77
C/2014 Q2	2015 08 05.88375	15 17 01.28	+55 31 28.4	13.1	N	K B51
C/2014 Q2	2015 08 05.88601	15 17 01.66	+55 31 25.6	14.8	N	K A77
C/2014 Q2	2015 08 05.88916	15 17 01.56	+55 31 19.5	14.0	N	K B51
C/2014 Q2	2015 08 05.89063	15 17 01.90	+55 31 18.4	14.6	N	K A77
C/2014 Q2	2015 08 05.89258	15 17 01.90	+55 31 13.9	13.1	N	K B51
C/2014 Q2	2015 08 05.89468	15 17 02.10	+55 31 10.5	13.9	N	C23
C/2014 Q2	2015 08 05.89492	15 17 02.19	+55 31 10.3	14.8	N	K A77
C/2014 Q2	2015 08 05.89608	15 17 02.25	+55 31 09.5	14.8	N	J01
C/2014 Q2	2015 08 05.89726	15 17 02.24	+55 31 06.1	14.1	N	C23
C/2014 Q2	2015 08 05.89798	15 17 02.29	+55 31 04.8	14.0	N	C23
C/2014 Q2	2015 08 05.90208	15 17 02.52	+55 30 59.0	14.2	N	9 G40
C/2014 Q2	2015 08 05.90294	15 17 02.56	+55 30 57.6	14.2	N	9 G40
C/2014 Q2	2015 08 05.90384	15 17 02.68	+55 30 54.9	14.8	N	K A77
C/2014 Q2	2015 08 05.90476	15 17 02.72	+55 30 54.5	14.6	N	J01
C/2014 Q2	2015 08 05.90837	15 17 02.89	+55 30 48.3	14.2	N	9 G40
C/2014 Q2	2015 08 05.90924	15 17 02.95	+55 30 46.6	14.2	N	9 G40
C/2014 Q2	2015 08 06.83403	15 17 56.40	+55 04 23.8	15.4	N	A71
C/2014 Q2	2015 08 06.83721	15 17 56.64	+55 04 17.3	15.4	N	A71
C/2014 Q2	2015 08 06.84112	15 17 56.81	+55 04 11.1	15.6	N	A71
C/2014 Q2	2015 08 06.84552	15 17 57.08	+55 04 03.1	15.7	N	A71
C/2014 Q2	2015 08 06.84805	15 17 57.10	+55 03 59.6	13.4	N	K A77
C/2014 Q2	2015 08 06.85265	15 17 57.41	+55 03 51.7	13.4	N	K A77
C/2014 Q2	2015 08 06.85935	15 17 57.79	+55 03 40.3	13.4	N	K A77
C/2014 Q2	2015 08 06.86057	15 17 57.85	+55 03 37.7	13.5	N	C10
C/2014 Q2	2015 08 06.86905	15 17 58.33	+55 03 22.8	13.4	N	C10
C/2014 Q2	2015 08 06.88872	15 17 59.65	+55 02 50.7	14.8	N	B96
C/2014 Q2	2015 08 06.89037	15 17 59.66	+55 02 47.9	15.0	N	B96
C/2014 Q2	2015 08 06.89212	15 17 59.76	+55 02 44.7	15.0	N	B96
C/2014 Q2	2015 08 06.89377	15 17 59.89	+55 02 41.8	14.9	N	B96
C/2014 Q2	2015 08 06.89554	15 18 00.00	+55 02 39.0	14.9	N	B96
C/2014 Q2	2015 08 06.89653	15 18 00.11	+55 02 38.6	13.5	N	C86
C/2014 Q2	2015 08 06.89721	15 18 00.11	+55 02 35.8	14.9	N	B96
C/2014 Q2	2015 08 06.89977	15 18 00.15	+55 02 32.2	13.4	N	C86
C/2014 Q2	2015 08 06.89992	15 18 00.00	+55 02 29.5	13.4	N	C10
C/2014 Q2	2015 08 06.90059	15 18 00.18	+55 02 30.3	13.4	N	C86
C/2014 Q2	2015 08 06.92220	15 18 01.38	+55 01 53.2	13.9	N	K14
C/2014 Q2	2015 08 06.93088	15 18 01.93	+55 01 38.5	13.8	N	K14
C/2014 Q2	2015 08 06.97708	15 18 04.57	+55 00 20.2	14.2	N	A77
C/2014 Q2	2015 08 06.98012	15 18 04.73	+55 00 14.7	14.2	N	A77
C/2014 Q2	2015 08 06.98312	15 18 04.94	+55 00 09.4	14.2	N	A77
C/2014 Q2	2015 08 06.98580	15 18 05.08	+55 00 05.0	14.2	N	A77
C/2014 Q2	2015 08 06.98751	15 18 05.19	+55 00 02.2	14.2	N	A77
C/2014 Q2	2015 08 06.99007	15 18 05.34	+54 59 58.0	14.2	N	A77
C/2014 Q2	2015 08 07.53355	15 18 36.82	+54 44 31.1			D81
C/2014 Q2	2015 08 07.53414	15 18 36.85	+54 44 30.3			D81
C/2014 Q2	2015 08 07.53472	15 18 36.88	+54 44 29.0			D81
C/2014 Q2	2015 08 07.53537	15 18 36.91	+54 44 28.2	10.6	T	D81
C/2014 Q2	2015 08 07.84516	15 18 55.09	+54 35 42.9	14.6	N	C47
C/2014 Q2	2015 08 07.84848	15 18 55.31	+54 35 37.5	15.3	N	C47
C/2014 Q2	2015 08 07.85217	15 18 55.49	+54 35 31.0	14.6	N	C47
C/2014 Q2	2015 08 07.85586	15 18 55.74	+54 35 24.8	15.3	N	C47
C/2014 Q2	2015 08 07.85955	15 18 55.92	+54 35 18.7	15.4	N	C47
C/2014 Q2	2015 08 07.86324	15 18 56.12	+54 35 12.2	15.5	N	C47
C/2014 Q2	2015 08 07.86730	15 18 56.32	+54 35 04.9	15.6	N	C47
C/2014 Q2	2015 08 07.86740	15 18 56.43	+54 35 05.0	13.9	N	K14
C/2014 Q2	2015 08 07.87173	15 18 56.65	+54 34 57.8	15.3	N	C47
C/2014 Q2	2015 08 07.87618	15 18 56.85	+54 34 49.8	13.9	N	K14
C/2014 Q2	2015 08 08.89752	15 19 56.49	+54 06 01.4	14.1	N	B96

C/2014 Q2	2015 08 08.90443	15 19 56.96	+54 05 50.0	14.8	N	B96
C/2014 Q2	2015 08 08.91120	15 19 57.42	+54 05 37.9	15.1	N	B96
C/2014 Q2	2015 08 08.99016	15 20 01.83	+54 03 25.2	13.4	N	I72
C/2014 Q2	2015 08 08.99310	15 20 02.02	+54 03 19.7	13.4	N	I72
C/2014 Q2	2015 08 08.99602	15 20 02.15	+54 03 14.7	13.4	N	I72
C/2014 Q2	2015 08 09.20139	15 20 14.18	+53 57 29.6	13.4	N	G68
C/2014 Q2	2015 08 09.21181	15 20 14.77	+53 57 12.1	13.4	N	G68
C/2014 Q2	2015 08 09.22222	15 20 15.37	+53 56 54.4	13.4	N	G68
C/2014 Q2	2015 08 09.23242	15 20 15.96	+53 56 37.0	13.4	N	G68
C/2014 Q2	2015 08 09.24282	15 20 16.57	+53 56 19.6	13.4	N	G68
C/2014 Q2	2015 08 09.87035	15 20 53.56	+53 38 45.2	14.3	N	J01
C/2014 Q2	2015 08 09.87861	15 20 53.93	+53 38 29.9	14.0	N	C23
C/2014 Q2	2015 08 09.87907	15 20 54.06	+53 38 30.4	14.3	N	J01
C/2014 Q2	2015 08 09.87936	15 20 54.01	+53 38 28.4	14.0	N	C23
C/2014 Q2	2015 08 09.88085	15 20 54.13	+53 38 26.6	14.4	N	C23
C/2014 Q2	2015 08 09.89649	15 20 55.06	+53 38 01.7	14.3	N	J01
C/2014 Q2	2015 08 10.83191	15 21 50.14	+53 11 55.5	15.6	N	C47
C/2014 Q2	2015 08 10.83486	15 21 50.28	+53 11 50.2	15.3	N	C47
C/2014 Q2	2015 08 10.83818	15 21 50.52	+53 11 45.5	15.1	N	C47
C/2014 Q2	2015 08 10.84150	15 21 50.71	+53 11 39.4	15.2	N	C47
C/2014 Q2	2015 08 10.84482	15 21 50.88	+53 11 34.1	15.6	N	C47
C/2014 Q2	2015 08 10.84814	15 21 51.06	+53 11 28.0	15.2	N	C47
C/2014 Q2	2015 08 11.01173	15 22 00.63	+53 06 54.6	14.8	N	C23
C/2014 Q2	2015 08 11.01473	15 22 00.83	+53 06 48.9	14.0	N	C23
C/2014 Q2	2015 08 11.01773	15 22 01.03	+53 06 43.9	14.3	N	C23
C/2014 Q2	2015 08 11.86709	15 22 51.28	+52 43 13.6	14.0	N	K14
C/2014 Q2	2015 08 11.87771	15 22 51.87	+52 42 56.1	14.0	N	K14
C/2014 Q2	2015 08 11.89737	15 22 53.09	+52 42 23.7	14.0	N	K14
C/2014 Q2	2015 08 11.90415	15 22 53.51	+52 42 12.0	13.9	T	A77
C/2014 Q2	2015 08 11.91534	15 22 54.18	+52 41 53.3	14.3	T	A77
C/2014 Q2	2015 08 11.92425	15 22 54.71	+52 41 38.6	14.2	T	A77
C/2014 Q2	2015 08 12.12716	15 23 06.73	+52 36 02.7	14.5	N	V86
C/2014 Q2	2015 08 12.14409	15 23 07.75	+52 35 34.5	14.5	N	V86
C/2014 Q2	2015 08 12.14753	15 23 07.75	+52 35 26.9	13.9	N	750
C/2014 Q2	2015 08 12.16132	15 23 08.74	+52 35 05.4	14.5	N	V86
C/2014 Q2	2015 08 12.17200	15 23 09.28	+52 34 47.0	14.0	N	750
C/2014 Q2	2015 08 12.85498	15 23 49.98	+52 15 59.8	14.3	N	L04
C/2014 Q2	2015 08 12.85582	15 23 50.01	+52 15 58.3	14.3	N	L04
C/2014 Q2	2015 08 12.86181	15 23 50.31	+52 15 48.2	14.2	N	L04
C/2014 Q2	2015 08 12.86319	15 23 50.46	+52 15 46.2	14.3	N	L04
C/2014 Q2	2015 08 12.87855	15 23 51.40	+52 15 20.6	14.2	N	215
C/2014 Q2	2015 08 12.87884	15 23 51.44	+52 15 20.3	14.2	N	C23
C/2014 Q2	2015 08 12.88084	15 23 51.53	+52 15 15.8	13.6	N	215
C/2014 Q2	2015 08 12.88334	15 23 51.66	+52 15 12.8	14.7	N	C23
C/2014 Q2	2015 08 12.88339	15 23 51.41	+52 15 09.0	13.7	N	215
C/2014 Q2	2015 08 12.88858	15 23 51.98	+52 15 04.4	14.5	N	C23
C/2014 Q2	2015 08 14.95283	15 25 55.44	+51 18 43.7	15.7	N	C47
C/2014 Q2	2015 08 14.95505	15 25 55.51	+51 18 39.4	15.9	N	C47
C/2014 Q2	2015 08 14.95800	15 25 55.70	+51 18 34.6	15.1	N	C47
C/2014 Q2	2015 08 14.96021	15 25 55.90	+51 18 31.5	15.2	N	C47
C/2014 Q2	2015 08 14.96280	15 25 55.99	+51 18 27.7	15.7	N	C47
C/2014 Q2	2015 08 14.96538	15 25 56.15	+51 18 23.4	15.3	N	C47
C/2014 Q2	2015 08 15.92347	15 26 53.86	+50 52 31.7	13.6	N	J22
C/2014 Q2	2015 08 15.92477	15 26 53.90	+50 52 30.0	13.6	N	J22
C/2014 Q2	2015 08 15.92848	15 26 54.06	+50 52 23.3	13.6	N	J22
C/2014 Q2	2015 08 16.00138	15 26 58.55	+50 50 24.5	13.7	N	I57
C/2014 Q2	2015 08 16.00392	15 26 58.66	+50 50 19.8	13.7	N	I57
C/2014 Q2	2015 08 16.00646	15 26 58.80	+50 50 15.2	13.7	N	I57
C/2014 Q2	2015 08 16.96810	15 27 56.78	+50 24 25.3	14.6	N	I81
C/2014 Q2	2015 08 16.97300	15 27 57.19	+50 24 18.9	14.1	N	I81
C/2014 Q2	2015 08 16.97837	15 27 57.46	+50 24 09.4	14.5	N	I81
C/2014 Q2	2015 08 17.11456	15 28 05.73	+50 20 34.0	14.7	N	V86
C/2014 Q2	2015 08 17.12690	15 28 06.41	+50 20 14.5	14.7	N	V86
C/2014 Q2	2015 08 17.14206	15 28 07.40	+50 19 50.1	14.7	N	V86
C/2014 Q2	2015 08 17.85699	15 28 50.79	+50 00 47.4	14.0	N	I57
C/2014 Q2	2015 08 17.85959	15 28 50.96	+50 00 43.5	14.0	N	I57
C/2014 Q2	2015 08 17.86248	15 28 51.10	+50 00 38.6	14.0	N	I57
C/2014 Q2	2015 08 18.83083	15 29 50.00	+49 34 58.1	13.9	N	B82
C/2014 Q2	2015 08 18.83870	15 29 50.46	+49 34 45.5	13.9	N	B82
C/2014 Q2	2015 08 18.84656	15 29 50.95	+49 34 32.8	13.9	N	B82
C/2014 Q2	2015 08 18.85441	15 29 51.43	+49 34 20.1	13.9	N	B82
C/2014 Q2	2015 08 18.87823	15 29 52.91	+49 33 43.2	15.0	N	J01
C/2014 Q2	2015 08 18.88696	15 29 53.41	+49 33 29.5	15.0	N	J01
C/2014 Q2	2015 08 18.89564	15 29 54.00	+49 33 15.7	15.1	N	J01
C/2014 Q2	2015 08 18.94912	15 29 57.14	+49 31 50.8	14.4	N	A77
C/2014 Q2	2015 08 18.95302	15 29 57.38	+49 31 44.6	14.3	N	A77
C/2014 Q2	2015 08 18.95706	15 29 57.61	+49 31 38.1	14.4	N	A77
C/2014 Q2	2015 08 18.96186	15 29 57.89	+49 31 30.3	14.4	N	A77
C/2014 Q2	2015 08 18.96681	15 29 58.24	+49 31 22.2	14.4	N	A77
C/2014 Q2	2015 08 18.97081	15 29 58.44	+49 31 15.5	14.4	N	A77
C/2014 Q2	2015 08 19.85515	15 30 52.49	+49 08 01.0	14.2	N	C23
C/2014 Q2	2015 08 19.85814	15 30 52.68	+49 07 56.4	14.3	N	C23
C/2014 Q2	2015 08 19.86114	15 30 52.84	+49 07 52.0	14.7	N	C23
C/2014 Q2	2015 08 19.87236	15 30 53.52	+49 07 34.5	13.8	N	I99
C/2014 Q2	2015 08 19.87987	15 30 53.98	+49 07 22.2	13.8	N	I99
C/2014 Q2	2015 08 19.88167	15 30 54.11	+49 07 20.2	13.8	N	I99
C/2014 Q2	2015 08 19.88492	15 30 54.25	+49 07 15.0	14.0	N	C90
C/2014 Q2	2015 08 19.88874	15 30 54.56	+49 07 09.3	14.0	N	C90
C/2014 Q2	2015 08 19.89063	15 30 54.72	+49 07 08.1	14.0	N	C90
C/2014 Q2	2015 08 20.91985	15 31 57.61	+48 40 13.2	13.6	N	J38
C/2014 Q2	2015 08 20.92228	15 31 57.78	+48 40 10.0	13.6	N	J38
C/2014 Q2	2015 08 20.92589	15 31 57.99	+48 40 04.2	13.7	N	J38
C/2014 Q2	2015 08 21.85477	15 32 55.03	+48 15 59.9	14.3	N	B51
C/2014 Q2	2015 08 21.85743	15 32 55.19	+48 15 55.8	14.3	N	B51
C/2014 Q2	2015 08 21.86226	15 32 55.49	+48 15 48.4	14.3	N	B51
C/2014 Q2	2015 08 21.86589	15 32 55.70	+48 15 41.8	14.4	N	B51
C/2014 Q2	2015 08 21.87032	15 32 55.96	+48 15 35.8	14.2	N	B51
C/2014 Q2	2015 08 21.87068	15 32 56.10	+48 15 34.9	15.6	N	B96
C/2014 Q2	2015 08 21.87356	15 32 56.17	+48 15 30.6	14.3	N	B51
C/2014 Q2	2015 08 21.87610	15 32 56.32	+48 15 26.7	14.2	N	B51
C/2014 Q2	2015 08 21.88094	15 32 56.75	+48 15 19.3	15.5	N	B96
C/2014 Q2	2015 08 21.88406	15 32 56.86	+48 15 14.0	14.0	N	B82
C/2014 Q2	2015 08 21.88905	15 32 57.28	+48 15 06.4	14.7	N	B96
C/2014 Q2	2015 08 21.89190	15 32 57.33	+48 15 01.8	14.0	N	B82
C/2014 Q2	2015 08 21.89574	15 32 57.53	+48 14 56.1	16.6	N	B96
C/2014 Q2	2015 08 21.90761	15 32 58.31	+48 14 37.3	14.0	N	B82

C/2014 Q2	2015 08 21.91550	15 32 58.78	+48 14 25.0	14.0	N	B82
C/2014 Q2	2015 08 21.93414	15 32 59.91	+48 13 56.0	16.1	N	K24
C/2014 Q2	2015 08 21.97199	15 33 02.18	+48 12 56.9	15.2	N	K24
C/2014 Q2	2015 08 22.82428	15 33 54.83	+47 51 03.0	15.8	N	C47
C/2014 Q2	2015 08 22.83861	15 33 55.69	+47 50 41.0	15.8	N	C47
C/2014 Q2	2015 08 22.84678	15 33 56.13	+47 50 27.9	14.5	N	C47
C/2014 Q2	2015 08 22.85036	15 33 56.37	+47 50 22.5	15.7	N	C47
C/2014 Q2	2015 08 22.85394	15 33 56.59	+47 50 16.8	16.0	N	C47
C/2014 Q2	2015 08 22.85752	15 33 56.82	+47 50 11.9	15.7	N	C47
C/2014 Q2	2015 08 22.86111	15 33 57.02	+47 50 05.8	15.7	N	C47
C/2014 Q2	2015 08 22.86469	15 33 57.23	+47 50 00.5	15.7	N	C47
C/2014 Q2	2015 08 22.86907	15 33 57.58	+47 49 54.4	15.5	N	B96
C/2014 Q2	2015 08 22.87885	15 33 58.18	+47 49 39.0	15.4	N	B96
C/2014 Q2	2015 08 22.88550	15 33 58.62	+47 49 28.6	15.4	N	B96
C/2014 Q2	2015 08 22.89213	15 33 58.96	+47 49 18.1	15.6	N	B96
C/2014 Q2	2015 08 22.96503	15 34 03.41	+47 47 24.7	14.9	N	C23
C/2014 Q2	2015 08 22.96802	15 34 03.60	+47 47 20.5	14.9	N	C23
C/2014 Q2	2015 08 22.97102	15 34 03.77	+47 47 15.8	14.0	N	C23
C/2014 Q2	2015 08 23.96956	15 35 05.50	+47 21 46.4	14.1	N	I81
C/2014 Q2	2015 08 23.97601	15 35 05.91	+47 21 36.6	14.1	N	I81
C/2014 Q2	2015 08 23.98336	15 35 06.36	+47 21 25.3	14.2	N	I81
C/2014 Q2	2015 08 24.60631	15 35 44.98	+47 05 41.1	16.4	N	N55
C/2014 Q2	2015 08 24.60795	15 35 45.07	+47 05 38.6	16.5	N	N55
C/2014 Q2	2015 08 24.60958	15 35 45.13	+47 05 36.4	16.4	N	N55
C/2014 Q2	2015 08 24.61122	15 35 45.26	+47 05 34.0	16.7	N	N55
C/2014 Q2	2015 08 24.61285	15 35 45.37	+47 05 31.3	16.5	N	N55
C/2014 Q2	2015 08 24.62250	15 35 45.98	+47 05 16.3	16.5	N	N55
C/2014 Q2	2015 08 24.62414	15 35 46.06	+47 05 13.5	16.5	N	N55
C/2014 Q2	2015 08 24.62578	15 35 46.13	+47 05 11.4	16.6	N	N55
C/2014 Q2	2015 08 24.62775	15 35 46.29	+47 05 08.3	16.5	N	N55
C/2014 Q2	2015 08 24.83016	15 35 58.77	+47 00 00.2	13.7	N	939
C/2014 Q2	2015 08 24.83380	15 35 58.99	+46 59 54.8	13.7	N	939
C/2014 Q2	2015 08 24.83744	15 35 59.21	+46 59 49.4	13.7	N	939
C/2014 Q2	2015 08 25.88074	15 37 04.01	+46 33 36.2	13.9	N	C86
C/2014 Q2	2015 08 25.88410	15 37 04.25	+46 33 30.8	13.8	N	C86
C/2014 Q2	2015 08 25.88633	15 37 04.39	+46 33 27.7	13.8	N	C86
C/2014 Q2	2015 08 25.97611	15 37 09.97	+46 31 11.0	14.2	N	I81
C/2014 Q2	2015 08 25.97975	15 37 10.18	+46 31 05.4	14.3	N	I81
C/2014 Q2	2015 08 25.98265	15 37 10.37	+46 31 01.2	14.3	N	I81
C/2014 Q2	2015 08 26.81293	15 38 02.11	+46 10 21.1	15.2	N	C47
C/2014 Q2	2015 08 26.81588	15 38 02.29	+46 10 16.7	15.7	N	C47
C/2014 Q2	2015 08 26.81920	15 38 02.48	+46 10 11.4	14.8	N	C47
C/2014 Q2	2015 08 26.82252	15 38 02.69	+46 10 06.5	15.1	N	C47
C/2014 Q2	2015 08 26.82584	15 38 02.87	+46 10 01.4	15.0	N	C47
C/2014 Q2	2015 08 26.82953	15 38 03.14	+46 09 56.3	15.7	N	C47
C/2014 Q2	2015 08 26.83322	15 38 03.36	+46 09 50.9	15.7	N	C47
C/2014 Q2	2015 08 26.83691	15 38 03.59	+46 09 45.1	15.8	N	C47
C/2014 Q2	2015 08 26.91830	15 38 08.61	+46 07 42.3	14.0	N	I81
C/2014 Q2	2015 08 26.92021	15 38 08.73	+46 07 39.3	13.9	N	I81
C/2014 Q2	2015 08 26.92172	15 38 08.84	+46 07 37.2	14.0	N	I81

C/2014 R1 (Borisov)

C/2014 R1	2015 06 08.97225	17 00 18.88	−15 38 55.5	16.8	N	K 585
C/2014 R1	2015 06 08.97295	17 00 18.85	−15 38 55.6	16.8	N	K 585
C/2014 R1	2015 06 08.97366	17 00 18.82	−15 38 55.7	16.9	N	K 585
C/2014 R1	2015 06 08.97437	17 00 18.77	−15 38 55.7	16.8	N	K 585
C/2014 R1	2015 06 08.97507	17 00 18.70	−15 38 55.7	17.0	N	K 585
C/2014 R1	2015 06 08.97578	17 00 18.71	−15 38 56.0	17.1	N	K 585
C/2014 R1	2015 06 08.97791	17 00 18.60	−15 38 56.4	17.0	N	K 585
C/2014 R1	2015 07 09.35190	16 39 45.419	−16 48 14.38	20.0	T	F51
C/2014 R1	2015 07 09.36371	16 39 45.129	−16 48 16.30	19.9	T	F51
C/2014 R1	2015 07 09.37552	16 39 44.849	−16 48 18.09	20.0	T	F51
C/2014 R1	2015 08 06.29008	16 37 03.680	−18 06 41.19	20.6	T	F51
C/2014 R1	2015 08 06.30177	16 37 03.808	−18 06 43.47	20.6	T	F51
C/2014 R1	2015 08 06.31347	16 37 03.899	−18 06 45.18	20.8	T	F51
C/2014 R1	2015 08 06.32519	16 37 04.015	−18 06 47.53	21.0	T	F51

C/2014 R3 (PANSTARRS)

C/2014 R3	2015 05 24.42942	19 36 38.93	+67 49 28.3			32H06
C/2014 R3	2015 05 24.43287	19 36 38.69	+67 49 30.0			32H06
C/2014 R3	2015 05 24.43633	19 36 38.40	+67 49 31.4	19.0	T	32H06

C/2014 S2 (PANSTARRS)

C/2014 S2	2015 07 13.07768	02 11 59.20	+40 17 07.2	16.5	N	K 160
C/2014 S2	2015 07 13.07905	02 11 59.28	+40 17 09.2	17.5	N	K 160
C/2014 S2	2015 07 13.08042	02 11 59.40	+40 17 11.2	17.1	N	K 160
C/2014 S2	2015 07 15.98262	02 14 57.58	+41 31 06.6	16.0	N	K 215
C/2014 S2	2015 07 15.98453	02 14 57.70	+41 31 09.6	15.8	N	K 215
C/2014 S2	2015 07 15.98644	02 14 57.83	+41 31 12.7	16.0	N	K 215
C/2014 S2	2015 07 17.00381	02 16 00.33	+41 57 35.4	15.6	N	C36
C/2014 S2	2015 07 17.00524	02 16 00.48	+41 57 38.7	15.5	N	C36
C/2014 S2	2015 07 17.00659	02 16 00.46	+41 57 41.4	15.6	N	C36
C/2014 S2	2015 07 17.01359	02 16 00.95	+41 57 51.4	15.5	N	C36
C/2014 S2	2015 07 17.96821	02 16 59.45	+42 22 50.5	15.6	N	C36
C/2014 S2	2015 07 17.96943	02 16 59.53	+42 22 52.2	15.6	N	C36
C/2014 S2	2015 07 17.97066	02 16 59.62	+42 22 54.0	15.6	N	C36
C/2014 S2	2015 07 17.97189	02 16 59.67	+42 22 55.9	15.5	N	C36
C/2014 S2	2015 07 17.97310	02 16 59.75	+42 22 58.0	15.3	N	C36
C/2014 S2	2015 07 17.97433	02 16 59.81	+42 22 59.8	15.4	N	C36
C/2014 S2	2015 07 17.97556	02 16 59.89	+42 23 01.5	15.5	N	C36
C/2014 S2	2015 07 17.97678	02 16 59.98	+42 23 03.4	15.4	N	C36
C/2014 S2	2015 07 17.97800	02 17 00.05	+42 23 05.9	15.4	N	C36
C/2014 S2	2015 07 17.97922	02 17 00.11	+42 23 07.2	15.6	N	C36
C/2014 S2	2015 07 17.98045	02 17 00.23	+42 23 09.5	15.5	N	C36
C/2014 S2	2015 07 17.98168	02 17 00.29	+42 23 11.8	15.6	N	C36
C/2014 S2	2015 07 17.98289	02 17 00.36	+42 23 13.5	15.7	N	C36
C/2014 S2	2015 07 17.98412	02 17 00.42	+42 23 15.1	15.5	N	C36
C/2014 S2	2015 07 20.01190	02 19 04.97	+43 17 04.4	15.8	N	461
C/2014 S2	2015 07 20.01352	02 19 05.08	+43 17 07.1	16.3	N	461
C/2014 S2	2015 07 20.01675	02 19 05.27	+43 17 12.9	14.9	N	461
C/2014 S2	2015 07 20.01836	02 19 05.36	+43 17 14.9	15.7	N	461
C/2014 S2	2015 07 20.02159	02 19 05.56	+43 17 20.1	15.8	N	461
C/2014 S2	2015 07 20.02321	02 19 05.67	+43 17 22.7	16.3	N	461
C/2014 S2	2015 07 20.02804	02 19 05.96	+43 17 30.5	15.8	N	461
C/2014 S2	2015 07 20.02965	02 19 06.05	+43 17 33.2	15.8	N	461

C/2014 S2	2015 07 21.95649	02 21 04.19	+44 09 36.0	15.2	N		C36
C/2014 S2	2015 07 21.95771	02 21 04.28	+44 09 37.8	15.3	N		C36
C/2014 S2	2015 07 21.95894	02 21 04.38	+44 09 40.2	15.6	N		C36
C/2014 S2	2015 07 21.96016	02 21 04.40	+44 09 41.6	15.4	N		C36
C/2014 S2	2015 07 21.96153	02 21 04.52	+44 09 44.3	15.3	N		C36
C/2014 S2	2015 07 21.96251	02 21 04.58	+44 09 45.9	15.6	N		C36
C/2014 S2	2015 07 21.96351	02 21 04.65	+44 09 47.5	15.5	N		C36
C/2014 S2	2015 07 24.10609	02 23 16.02	+45 08 48.3	15.0	N	K	A77
C/2014 S2	2015 07 24.11046	02 23 16.33	+45 08 56.0	15.6	N	K	A77
C/2014 S2	2015 07 24.11483	02 23 16.58	+45 09 03.5	15.4	N	K	A77
C/2014 S2	2015 07 25.76979	02 24 57.90	+45 55 23.5			K	367
C/2014 S2	2015 07 25.77141	02 24 57.99	+45 55 26.3			K	367
C/2014 S2	2015 07 25.77263	02 24 58.07	+45 55 28.3	14.6	T	K	367
C/2014 S2	2015 07 26.65393	02 25 52.15	+46 20 25.7	14.8	T		349
C/2014 S2	2015 07 26.66317	02 25 52.67	+46 20 41.9				349
C/2014 S2	2015 07 26.67241	02 25 53.25	+46 20 57.5				349
C/2014 S2	2015 07 28.01408	02 27 15.41	+46 59 20.5	15.6	N	K	B51
C/2014 S2	2015 07 28.01929	02 27 15.69	+46 59 30.3	15.6	N	K	B51
C/2014 S2	2015 07 31.05523	02 30 21.19	+48 28 08.8	15.3	N		C23
C/2014 S2	2015 07 31.05812	02 30 21.36	+48 28 14.0	15.3	N		C23
C/2014 S2	2015 07 31.06245	02 30 21.61	+48 28 21.6	15.2	N		C23
C/2014 S2	2015 08 02.07303	02 32 24.34	+49 28 25.4	14.8	N		C10
C/2014 S2	2015 08 02.08412	02 32 24.88	+49 28 45.1	14.9	N		C10
C/2014 S2	2015 08 02.09469	02 32 25.43	+49 29 04.8	14.9	N		C10
C/2014 S2	2015 08 04.01901	02 34 22.96	+50 27 34.6	16.6	N		C47
C/2014 S2	2015 08 04.02122	02 34 23.15	+50 27 38.8	16.5	N		C47
C/2014 S2	2015 08 04.02344	02 34 23.22	+50 27 43.1	16.3	N		C47
C/2014 S2	2015 08 04.02565	02 34 23.39	+50 27 47.4	16.0	N		C47
C/2014 S2	2015 08 04.02787	02 34 23.50	+50 27 51.5	16.5	N		C47
C/2014 S2	2015 08 04.03008	02 34 23.63	+50 27 55.5	15.5	N		C47
C/2014 S2	2015 08 04.03266	02 34 23.79	+50 28 00.1	16.4	N		C47
C/2014 S2	2015 08 04.03524	02 34 23.93	+50 28 05.0	15.5	N		C47
C/2014 S2	2015 08 05.97838	02 36 22.11	+51 28 11.2	15.4	N		C47
C/2014 S2	2015 08 05.98170	02 36 22.34	+51 28 17.5	16.3	N		C47
C/2014 S2	2015 08 05.98539	02 36 22.53	+51 28 24.1	15.4	N		C47
C/2014 S2	2015 08 05.98908	02 36 22.78	+51 28 30.9	16.0	N		C47
C/2014 S2	2015 08 05.99542	02 36 23.18	+51 28 42.9	16.1	N		A71
C/2014 S2	2015 08 05.99646	02 36 23.21	+51 28 45.2	16.4	N		C47
C/2014 S2	2015 08 05.99782	02 36 23.24	+51 28 46.9	15.0	N		C23
C/2014 S2	2015 08 06.00052	02 36 23.47	+51 28 52.9	16.4	N		C47
C/2014 S2	2015 08 06.00082	02 36 23.42	+51 28 52.6	14.9	N		C23
C/2014 S2	2015 08 06.00182	02 36 23.55	+51 28 55.1	16.0	N		A71
C/2014 S2	2015 08 06.00457	02 36 23.65	+51 28 59.6	15.0	N		C23
C/2014 S2	2015 08 06.00822	02 36 23.94	+51 29 07.4	16.1	N		A71
C/2014 S2	2015 08 06.01462	02 36 24.30	+51 29 19.1	16.3	N		A71
C/2014 S2	2015 08 06.99928	02 37 24.08	+52 00 10.4	15.5	N		B96
C/2014 S2	2015 08 07.00095	02 37 24.23	+52 00 13.7	15.9	N		B96
C/2014 S2	2015 08 07.00260	02 37 24.26	+52 00 16.7	16.0	N		B96
C/2014 S2	2015 08 07.00426	02 37 24.38	+52 00 19.9	16.0	N		B96
C/2014 S2	2015 08 07.00593	02 37 24.52	+52 00 23.1	16.0	N		B96
C/2014 S2	2015 08 07.00758	02 37 24.60	+52 00 26.0	16.0	N		B96
C/2014 S2	2015 08 07.00924	02 37 24.70	+52 00 29.5	16.0	N		B96
C/2014 S2	2015 08 07.94723	02 38 21.56	+52 30 07.7	16.3	N		C47
C/2014 S2	2015 08 07.95367	02 38 21.95	+52 30 20.1	16.3	N		C47
C/2014 S2	2015 08 07.96083	02 38 22.41	+52 30 33.7	16.3	N		C47
C/2014 S2	2015 08 07.96800	02 38 22.80	+52 30 47.5	15.4	N		C47
C/2014 S2	2015 08 07.97516	02 38 23.24	+52 31 01.3	16.2	N		C47
C/2014 S2	2015 08 07.98232	02 38 23.66	+52 31 15.3	16.3	N		C47
C/2014 S2	2015 08 07.98948	02 38 24.14	+52 31 28.7	16.3	N		C47
C/2014 S2	2015 08 08.92100	02 39 20.44	+53 01 08.8	16.1	N		B96
C/2014 S2	2015 08 08.92763	02 39 20.86	+53 01 22.1	15.9	N		B96
C/2014 S2	2015 08 09.42749	02 39 50.91	+53 17 26.9	14.8	N	K	H47
C/2014 S2	2015 08 09.43284	02 39 51.20	+53 17 37.3	14.9	N	K	H47
C/2014 S2	2015 08 09.43936	02 39 51.58	+53 17 49.8	14.8	N	K	H47
C/2014 S2	2015 08 10.09134	02 40 31.19	+53 38 50.3	15.4	N		J01
C/2014 S2	2015 08 10.09372	02 40 31.25	+53 38 53.8	15.4	N		J01
C/2014 S2	2015 08 10.09605	02 40 31.41	+53 38 59.1	15.4	N		J01
C/2014 S2	2015 08 10.89190	02 41 19.34	+54 04 45.3	14.9	N		C47
C/2014 S2	2015 08 10.89522	02 41 19.62	+54 04 52.0	15.9	N		C47
C/2014 S2	2015 08 10.89891	02 41 19.78	+54 04 59.2	16.3	N		C47
C/2014 S2	2015 08 10.90260	02 41 19.99	+54 05 05.9	16.3	N		C47
C/2014 S2	2015 08 10.90629	02 41 20.23	+54 05 13.5	14.8	N		C47
C/2014 S2	2015 08 10.90998	02 41 20.46	+54 05 20.9	15.9	N		C47
C/2014 S2	2015 08 10.91367	02 41 20.64	+54 05 28.1	16.2	N		C47
C/2014 S2	2015 08 10.91810	02 41 20.91	+54 05 36.5	16.1	N		C47
C/2014 S2	2015 08 11.04166	02 41 28.30	+54 09 38.9	14.8	N		C23
C/2014 S2	2015 08 11.04540	02 41 28.53	+54 09 46.2	14.8	N		C23
C/2014 S2	2015 08 11.04915	02 41 28.69	+54 09 53.7	15.3	N		C23
C/2014 S2	2015 08 11.15777	02 41 35.29	+54 13 27.5	14.8	N		J52
C/2014 S2	2015 08 11.16317	02 41 35.59	+54 13 37.9	14.8	N		J52
C/2014 S2	2015 08 11.16534	02 41 35.72	+54 13 41.9	14.8	N		J52
C/2014 S2	2015 08 12.91828	02 43 21.07	+55 11 14.3	14.7	N		K14
C/2014 S2	2015 08 12.92517	02 43 21.43	+55 11 27.9	14.7	N		K14
C/2014 S2	2015 08 12.93247	02 43 21.93	+55 11 42.7	14.7	N		K14
C/2014 S2	2015 08 12.95077	02 43 22.89	+55 12 19.2	14.7	N		C23
C/2014 S2	2015 08 12.95527	02 43 23.25	+55 12 28.1	14.7	N		C23
C/2014 S2	2015 08 12.95901	02 43 23.47	+55 12 35.7	14.6	N		C23
C/2014 S2	2015 08 14.95068	02 45 22.41	+56 19 03.4	14.2	N		C36
C/2014 S2	2015 08 14.95191	02 45 22.48	+56 19 06.2	14.2	N		C36
C/2014 S2	2015 08 14.95313	02 45 22.54	+56 19 08.9	14.2	N		C36
C/2014 S2	2015 08 14.95435	02 45 22.61	+56 19 11.2	14.2	N		C36
C/2014 S2	2015 08 14.95558	02 45 22.65	+56 19 13.2	14.2	N		C36
C/2014 S2	2015 08 14.95681	02 45 22.73	+56 19 15.2	14.2	N		C36
C/2014 S2	2015 08 14.95802	02 45 22.77	+56 19 17.4	14.2	N		C36
C/2014 S2	2015 08 14.95925	02 45 22.92	+56 19 20.7	14.2	N		C36
C/2014 S2	2015 08 16.04950	02 46 27.79	+56 56 10.9	14.5	N		I81
C/2014 S2	2015 08 16.05661	02 46 28.23	+56 56 25.7	14.6	N		I81
C/2014 S2	2015 08 16.06088	02 46 28.47	+56 56 34.4	14.5	N		I81
C/2014 S2	2015 08 17.10545	02 47 30.31	+57 32 09.3	14.5	N		I81
C/2014 S2	2015 08 17.10867	02 47 30.50	+57 32 15.9	14.4	N		I81
C/2014 S2	2015 08 17.11297	02 47 30.74	+57 32 24.7	14.3	N		I81
C/2014 S2	2015 08 17.15380	02 47 33.17	+57 33 48.3	14.6	N		J22
C/2014 S2	2015 08 17.15657	02 47 33.45	+57 33 54.3	14.6	N		J22
C/2014 S2	2015 08 17.15929	02 47 33.59	+57 34 00.5	14.6	N		J22
C/2014 S2	2015 08 19.98666	02 50 19.88	+59 11 44.1	14.9	N		C23
C/2014 S2	2015 08 19.99490	02 50 20.35	+59 12 01.6	14.4	N		C23

C/2014 S2	2015 08 20.00465	02 50 20.94	+59 12 22.3	14.5	N	C23
C/2014 S2	2015 08 21.95943	02 52 14.90	+60 21 09.3	15.6	N	B96
C/2014 S2	2015 08 21.96605	02 52 15.22	+60 21 23.4	15.7	N	B96
C/2014 S2	2015 08 22.94365	02 53 11.88	+60 56 08.9	15.8	N	C47
C/2014 S2	2015 08 22.94734	02 53 12.07	+60 56 16.7	15.8	N	C47
C/2014 S2	2015 08 22.95139	02 53 12.33	+60 56 25.7	15.7	N	C47
C/2014 S2	2015 08 22.95233	02 53 12.34	+60 56 27.5	15.6	N	B96
C/2014 S2	2015 08 22.95951	02 53 12.74	+60 56 43.0	14.9	N	C47
C/2014 S2	2015 08 22.96072	02 53 12.84	+60 56 45.1	15.0	N	B96
C/2014 S2	2015 08 22.96237	02 53 12.89	+60 56 48.5	15.7	N	B96
C/2014 S2	2015 08 22.96357	02 53 13.00	+60 56 51.8	15.9	N	C47
C/2014 S2	2015 08 22.96726	02 53 13.18	+60 57 00.0	15.8	N	C47
C/2014 S2	2015 08 23.99479	02 54 12.12	+61 33 46.3	14.1	N	I81
C/2014 S2	2015 08 24.00091	02 54 12.62	+61 34 00.4	14.2	N	I81
C/2014 S2	2015 08 24.00844	02 54 12.99	+61 34 16.4	14.2	N	I81
C/2014 S2	2015 08 24.98373	02 55 08.99	+62 09 25.8	14.4	N	939
C/2014 S2	2015 08 24.98650	02 55 09.08	+62 09 31.6	14.3	N	939
C/2014 S2	2015 08 24.98928	02 55 09.21	+62 09 37.6	14.3	N	939
C/2014 S2	2015 08 25.52982	02 55 39.40	+62 29 11.8	15	T	C51
Geocentric position (km)		+ 26.8270	+ 2829.1586	+ 6247.6532		
C/2014 S2	2015 08 25.79213	02 55 54.34	+62 38 43.6			C51
Geocentric position (km)		− 2.7289	+ 2784.0254	+ 6267.9062		
C/2014 S2	2015 08 25.90506	02 56 01.35	+62 42 49.3	14.3	N	K61
C/2014 S2	2015 08 25.90594	02 56 01.38	+62 42 51.4	14.5	N	K61
C/2014 S2	2015 08 25.90730	02 56 01.49	+62 42 54.3	14.6	N	K61
C/2014 S2	2015 08 26.00354	02 56 06.92	+62 46 25.6	14.2	N	I81
C/2014 S2	2015 08 26.00785	02 56 07.13	+62 46 35.0	14.1	N	I81
C/2014 S2	2015 08 26.00892	02 56 07.20	+62 46 37.3	14.2	N	K I81
C/2014 S2	2015 08 26.02879	02 56 08.32	+62 47 21.2	15.8	N	C47
C/2014 S2	2015 08 26.03211	02 56 08.43	+62 47 28.7	15.8	N	C47
C/2014 S2	2015 08 26.03580	02 56 08.76	+62 47 37.0	15.7	N	C47
C/2014 S2	2015 08 26.05458	02 56 09.30	+62 48 16.3			C51
Geocentric position (km)		− 5.5257	+ 2811.5857	+ 6255.6144		
C/2014 S2	2015 08 26.18574	02 56 16.71	+62 53 02.9			C51
Geocentric position (km)		− 20.0616	+ 2789.0111	+ 6265.6588		
C/2014 S2	2015 08 26.25132	02 56 20.43	+62 55 26.3			C51
Geocentric position (km)		− 27.2961	+ 2777.6751	+ 6270.6525		
C/2014 S2	2015 08 26.31690	02 56 24.13	+62 57 49.7			C51
Geocentric position (km)		− 34.4902	+ 2766.3546	+ 6275.6087		
C/2014 S2	2015 08 26.44805	02 56 31.52	+63 02 36.7			C51
Geocentric position (km)		− 48.7930	+ 2743.6678	+ 6285.4426		
C/2014 S2	2015 08 26.77471	02 56 50.46	+63 14 35.0			K 367
C/2014 S2	2015 08 26.77593	02 56 50.46	+63 14 37.3			K 367
C/2014 S2	2015 08 26.77714	02 56 50.48	+63 14 40.6	13.3	T	K 367
C/2014 S2	2015 08 26.94098	02 57 00.07	+63 20 38.0	15.8	N	C47
C/2014 S2	2015 08 26.94356	02 57 00.16	+63 20 43.9	15.7	N	C47
C/2014 S2	2015 08 26.94615	02 57 00.30	+63 20 49.6	15.8	N	C47
C/2014 S2	2015 08 26.94873	02 57 00.49	+63 20 55.4	15.6	N	C47
C/2014 S2	2015 08 26.95131	02 57 00.62	+63 21 01.4	15.7	N	C47
C/2014 S2	2015 08 26.95389	02 57 00.71	+63 21 06.6	15.7	N	C47
C/2014 S2	2015 08 26.95684	02 57 00.95	+63 21 13.2	15.6	N	C47
C/2014 S2	2015 08 26.95980	02 57 01.09	+63 21 19.5	15.7	N	C47
C/2014 S2	2015 08 26.99868	02 57 03.13	+63 22 45.4	13.8	N	I81
C/2014 S2	2015 08 27.00535	02 57 03.52	+63 23 00.0	13.8	N	I81
C/2014 S2	2015 08 27.00964	02 57 03.76	+63 23 09.4	13.9	N	I81

P/2014 V1 (PANSTARRS)

P/2014 V1	2014 11 17.43037	20 24 15.30	−11 37 56.8			1 Q62
P/2014 V1	2014 11 17.43283	20 24 15.51	−11 37 57.4			1 Q62
P/2014 V1	2014 11 17.43529	20 24 15.72	−11 37 57.9	19.6	T	1 Q62

C/2014 W2 (PANSTARRS)

C/2014 W2	2015 07 25.79462	05 32 56.27	+44 03 28.3			K 367
C/2014 W2	2015 07 25.79624	05 32 56.37	+44 03 30.0			K 367
C/2014 W2	2015 07 25.79745	05 32 56.47	+44 03 30.5	15.3	T	K 367
C/2014 W2	2015 07 26.07183	05 33 16.74	+44 06 49.4	16.3	N	C23
C/2014 W2	2015 07 26.07408	05 33 16.96	+44 06 50.9	15.7	N	C23
C/2014 W2	2015 07 26.07557	05 33 16.99	+44 06 52.1	16.0	N	C23
C/2014 W2	2015 08 05.70139	05 46 38.99	+46 21 34.7	15.0	T	349
C/2014 W2	2015 08 05.70914	05 46 39.59	+46 21 40.9			349
C/2014 W2	2015 08 05.71693	05 46 40.17	+46 21 47.4			349
C/2014 W2	2015 08 10.03314	05 52 15.77	+47 20 18.0	16.0	N	C36
C/2014 W2	2015 08 10.03402	05 52 15.92	+47 20 20.2	16.2	N	C36
C/2014 W2	2015 08 10.03490	05 52 15.99	+47 20 21.4	16.2	N	C36
C/2014 W2	2015 08 10.03843	05 52 16.20	+47 20 22.8	16.4	N	C36
C/2014 W2	2015 08 15.00506	05 58 49.96	+48 30 51.1	15.6	N	C36
C/2014 W2	2015 08 15.01363	05 58 50.71	+48 30 57.9	15.8	N	C36
C/2014 W2	2015 08 15.01608	05 58 50.92	+48 31 00.2	15.7	N	C36
C/2014 W2	2015 08 15.01730	05 58 50.99	+48 31 00.6	15.9	N	C36
C/2014 W2	2015 08 15.01853	05 58 51.13	+48 31 02.3	15.9	N	C36
C/2014 W2	2015 08 15.01975	05 58 51.18	+48 31 02.9	15.4	N	C36
C/2014 W2	2015 08 17.00845	06 01 31.06	+49 00 12.9	15.4	N	I81
C/2014 W2	2015 08 17.01584	06 01 31.68	+49 00 19.7	15.3	N	I81
C/2014 W2	2015 08 17.02014	06 01 32.03	+49 00 23.6	15.4	N	I81
C/2014 W2	2015 08 17.24233	06 01 50.02	+49 03 42.4	15.2	N	J22
C/2014 W2	2015 08 17.24421	06 01 50.26	+49 03 45.3	15.2	N	J22
C/2014 W2	2015 08 17.24516	06 01 50.45	+49 03 47.0	15.2	N	J22
C/2014 W2	2015 08 20.05141	06 05 38.35	+49 46 01.8	15.9	N	C23
C/2014 W2	2015 08 20.05574	06 05 38.79	+49 46 05.7	16.1	N	C23
C/2014 W2	2015 08 20.06007	06 05 39.04	+49 46 09.5	15.6	N	C23
C/2014 W2	2015 08 24.02318	06 11 06.12	+50 47 59.3	15.3	N	I81
C/2014 W2	2015 08 24.03009	06 11 06.69	+50 48 05.8	15.4	N	I81
C/2014 W2	2015 08 24.03546	06 11 07.11	+50 48 11.4	15.8	N	I81
C/2014 W2	2015 08 26.01581	06 13 52.79	+51 20 02.7	15.7	N	K K61
C/2014 W2	2015 08 26.01767	06 13 52.97	+51 20 04.5	15.8	N	K K61
C/2014 W2	2015 08 26.04397	06 13 55.14	+51 20 30.5	15.3	N	I81
C/2014 W2	2015 08 26.04971	06 13 55.67	+51 20 36.3	15.3	N	I81
C/2014 W2	2015 08 26.05402	06 13 55.96	+51 20 41.7	14.9	N	I81
C/2014 W2	2015 08 26.78200	06 14 57.34	+51 32 34.5			K 367
C/2014 W2	2015 08 26.78322	06 14 57.44	+51 32 35.8			K 367
C/2014 W2	2015 08 26.78484	06 14 57.58	+51 32 37.3	14.7	T	K 367
C/2014 W2	2015 08 27.03494	06 15 18.69	+51 36 42.7	17.1	N	C47
C/2014 W2	2015 08 27.03715	06 15 18.86	+51 36 44.9	16.4	N	C47
C/2014 W2	2015 08 27.03974	06 15 19.08	+51 36 47.2	17.0	N	C47
C/2014 W2	2015 08 27.04232	06 15 19.32	+51 36 49.5	16.9	N	C47
C/2014 W2	2015 08 27.04490	06 15 19.57	+51 36 52.6	17.1	N	C47
C/2014 W2	2015 08 27.04748	06 15 19.73	+51 36 54.9	17.0	N	C47

C/2014 W6 (Catalina)

C/2014 W6	2015 07 19.30484	10 46 16.66	−37 36 31.6	19.4	N	K 474
C/2014 W6	2015 07 19.33582	10 46 18.83	−37 36 45.9	19.8	N	K 474
C/2014 W6	2015 07 20.31961	10 47 27.52	−37 44 34.6	20.5	N	K 474
C/2014 W6	2015 07 20.32665	10 47 27.96	−37 44 40.7	20.9	N	K 474

C/2014 W11 (PANSTARRS)

C/2014 W11	2015 04 29.52253	08 57 06.71	+08 55 49.9	14.7	T	D95
C/2014 W11	2015 04 29.52619	08 57 06.85	+08 55 49.0			D95
C/2014 W11	2015 04 29.52986	08 57 06.99	+08 55 48.5			D95

C/2014 XB_8 (PANSTARRS)

C/2014 XB_8	2014 12 30.45354	03 47 05.01	−01 50 21.0			1 Q62
C/2014 XB_8	2014 12 30.45917	03 47 04.15	−01 50 18.5			1 Q62
C/2014 XB_8	2014 12 30.46480	03 47 03.27	−01 50 16.3	19.8	T	1 Q62
C/2014 XB_8	2015 07 15.619007	02 20 11.416	+22 44 14.04	21.4	T	29 568
C/2014 XB_8	2015 07 15.621027	02 20 11.330	+22 44 14.83	21.5	T	29 568
C/2014 XB_8	2015 07 15.623011	02 20 11.250	+22 44 15.72	21.4	T	29 568

C/2015 A1 (PANSTARRS)

C/2015 A1	2015 07 10.72003	04 15 14.87	−56 09 30.9	19.4	N	K 474
C/2015 A1	2015 07 10.72214	04 15 14.80	−56 09 33.1	19.3	N	K 474
C/2015 A1	2015 07 10.72426	04 15 14.74	−56 09 34.2	18.9	N	K 474
C/2015 A1	2015 07 20.62397	04 08 13.76	−58 51 55.1	20.3	N	K 474
C/2015 A1	2015 07 20.62608	04 08 13.54	−58 51 56.3	20.2	N	K 474
C/2015 A1	2015 07 20.62818	04 08 13.43	−58 51 59.8	20.2	N	K 474
C/2015 A1	2015 07 20.63030	04 08 13.31	−58 52 01.6	20.0	N	K 474
C/2015 A1	2015 08 25.64596	02 25 53.74	−69 56 58.7	20.2	N	K 474
C/2015 A1	2015 08 25.64948	02 25 52.58	−69 57 01.6	21.0	N	K 474
C/2015 A1	2015 08 25.65300	02 25 51.37	−69 57 04.1	20.5	N	K 474

C/2015 C2 (SWAN)

C/2015 C2	2015 06 29.99749	02 57 50.03	+85 20 04.2	17.9	N	C23
C/2015 C2	2015 06 30.00038	02 57 49.39	+85 20 10.1	17.3	N	C23
C/2015 C2	2015 06 30.00326	02 57 49.82	+85 20 16.7	17.6	N	C23
C/2015 C2	2015 06 30.00615	02 57 51.02	+85 20 22.6	17.8	N	C23
C/2015 C2	2015 07 01.95588	03 11 51.57	+86 31 52.6	17.6	N	K C23
C/2015 C2	2015 07 01.96888	03 11 57.31	+86 32 25.8	17.5	N	K C23
C/2015 C2	2015 07 01.98216	03 12 05.12	+86 32 59.0			K 215
C/2015 C2	2015 07 01.98408	03 12 07.48	+86 33 01.7	18.3	N	K 215
C/2015 C2	2015 07 01.98600	03 12 09.20	+86 33 06.0	18.1	N	K 215
C/2015 C2	2015 07 09.94456	12 51 40.00	+88 21 03.7	17.6	N	K C23
C/2015 C2	2015 07 09.95323	12 51 55.65	+88 20 42.1	18.4	N	K C23
C/2015 C2	2015 07 09.95900	12 52 04.99	+88 20 30.3	18.5	N	K C23
C/2015 C2	2015 07 20.00096	14 21 13.12	+82 31 54.6	18.4	N	K C23
C/2015 C2	2015 07 20.00962	14 21 14.79	+82 31 37.8	18.4	N	K C23
C/2015 C2	2015 07 20.01684	14 21 15.11	+82 31 22.1	18.3	N	K C23

P/2015 F1 (PANSTARRS)

P/2015 F1	2015 05 22.98850	16 30 30.90	−23 53 22.5	16.2	T	583
P/2015 F1	2015 05 22.98903	16 30 30.90	−23 53 22.3	16.2	T	583
P/2015 F1	2015 05 22.98956	16 30 30.85	−23 53 22.9	16.5	T	583
P/2015 F1	2015 05 22.99009	16 30 30.82	−23 53 21.8	16.4	T	583
P/2015 F1	2015 05 22.99061	16 30 30.81	−23 53 22.2	16.2	T	583
P/2015 F1	2015 05 22.99116	16 30 30.76	−23 53 22.6	16.1	T	583
P/2015 F1	2015 05 22.99169	16 30 30.80	−23 53 21.9	16.2	T	583
P/2015 F1	2015 07 04.45483	16 04 28.86	−23 22 56.2	17.1	N	30D90
P/2015 F1	2015 07 04.46097	16 04 28.76	−23 22 56.4	17.1	N	30D90
P/2015 F1	2015 07 04.46711	16 04 28.69	−23 22 56.5	17.1	N	30D90
P/2015 F1	2015 07 04.88394	16 04 23.56	−23 22 52.4	17.7	N	9 G40
P/2015 F1	2015 07 04.99458	16 04 22.04	−23 22 50.6	17.7	N	9 G40
P/2015 F1	2015 07 11.49733	16 03 38.53	−23 21 45.6	16.8	T	K D95
P/2015 F1	2015 07 11.50872	16 03 38.48	−23 21 45.7			K D95
P/2015 F1	2015 07 15.93850	16 03 46.93	−23 22 18.2	17.5	T	K 215
P/2015 F1	2015 07 15.93952	16 03 46.94	−23 22 19.1	17.3	T	K 215
P/2015 F1	2015 07 22.45197	16 04 55.71	−23 25 01.7	17.5	N	30D90
P/2015 F1	2015 07 22.45503	16 04 55.72	−23 25 02.1	17.5	N	30D90
P/2015 F1	2015 07 22.46118	16 04 55.87	−23 25 02.7	17.5	N	30D90
P/2015 F1	2015 08 08.46590	16 12 50.09	−23 42 50.4	18.1	N	30D90
P/2015 F1	2015 08 08.47480	16 12 50.41	−23 42 50.7	18.1	N	30D90
P/2015 F1	2015 08 08.48365	16 12 50.80	−23 42 52.2	18.1	N	30D90
P/2015 F1	2015 08 14.36368	16 17 04.84	−23 51 52.5	20.2	N	K E07
P/2015 F1	2015 08 14.36808	16 17 05.18	−23 51 52.8	19.9	N	K E07
P/2015 F1	2015 08 16.46517	16 18 45.75	−23 55 22.5	20.4	N	K E07
P/2015 F1	2015 08 16.47397	16 18 46.25	−23 55 22.0	18.4	N	I E07

C/2015 F2 (Polonia)

C/2015 F2	2015 05 16.72252	21 43 25.89	−04 54 19.0	14.9	T	D95
C/2015 F2	2015 05 16.72763	21 43 26.44	−04 53 59.9			D95
C/2015 F2	2015 05 16.72909	21 43 26.55	−04 53 55.1			D95
C/2015 F2	2015 06 10.60797	22 10 28.08	+16 52 16.8	15.6	T	D95
C/2015 F2	2015 06 10.61444	22 10 28.25	+16 52 34.4			D95
C/2015 F2	2015 06 10.61875	22 10 28.32	+16 52 46.1			D95
C/2015 F2	2015 06 12.33361	22 11 17.31	+18 07 09.9	13.1	T	K H06
C/2015 F2	2015 06 12.33490	22 11 17.34	+18 07 13.4	17.5	N	K H06
C/2015 F2	2015 06 17.92193	22 12 59.35	+21 53 48.4	18.0	N	K 585
C/2015 F2	2015 06 17.92280	22 12 59.35	+21 53 50.2	18.2	N	K 585
C/2015 F2	2015 06 17.92356	22 12 59.37	+21 53 52.1	18.2	N	K 585
C/2015 F2	2015 06 28.00243	22 12 25.71	+27 41 37.8	19.0	N	K 160
C/2015 F2	2015 06 28.00488	22 12 25.66	+27 41 42.6	19.1	N	K 160
C/2015 F2	2015 06 28.00733	22 12 25.59	+27 41 47.8	19.1	N	K 160
C/2015 F2	2015 07 01.97284	22 10 57.77	+29 36 44.8	17.9	T	K 215
C/2015 F2	2015 07 01.97387	22 10 57.76	+29 36 45.5	18.7	T	K 215
C/2015 F2	2015 07 01.97489	22 10 57.67	+29 36 47.5	18.1	T	K 215
C/2015 F2	2015 07 03.50667	22 10 13.075	+30 17 58.35	20.0	T	F51
C/2015 F2	2015 07 03.51704	22 10 12.712	+30 18 14.91	20.5	T	F51
C/2015 F2	2015 07 03.52750	22 10 12.333	+30 18 31.35	20.2	T	F51
C/2015 F2	2015 07 04.48214	22 09 41.636	+30 43 10.87	20.1	T	F51
C/2015 F2	2015 07 04.50546	22 09 40.756	+30 43 46.32	20.0	T	F51
C/2015 F2	2015 07 04.51583	22 09 40.423	+30 44 02.16	20.0	T	F51
C/2015 F2	2015 07 10.55672	22 05 34.56	+33 03 06.2	17.5	T	K D95
C/2015 F2	2015 07 10.56533	22 05 34.19	+33 03 17.9			K D95
C/2015 F2	2015 07 10.57180	22 05 33.63	+33 03 26.3			K D95
C/2015 F2	2015 07 14.67813	22 02 00.12	+34 21 26.3	18.5	T	372
C/2015 F2	2015 07 14.68500	22 01 59.71	+34 21 33.4			372

C/2015 F3 (SWAN)

C/2015 F3	2015 04 29.56861	06 38 33.56	+86 53 20.8	14.4	T	K D95
C/2015 F3	2015 04 29.57445	06 39 14.08	+86 53 13.4			K D95

C/2015 F4 (Jacques)

C/2015 F4	2015 05 16.73480	20 50 35.56	−32 14 47.1	14.4 T		D95
C/2015 F4	2015 05 16.73626	20 50 35.63	−32 14 44.7			D95
C/2015 F4	2015 05 16.73699	20 50 35.64	−32 14 43.7			D95
C/2015 F4	2015 06 10.62752	20 55 45.45	−18 56 32.6	13.2 T		D95
C/2015 F4	2015 06 10.63044	20 55 45.40	−18 56 25.4			D95
C/2015 F4	2015 06 10.63482	20 55 45.31	−18 56 14.3			D95
C/2015 F4	2015 06 10.73049	20 55 43.14	−18 52 11.2	12.8 T		349
C/2015 F4	2015 06 10.74289	20 55 42.83	−18 51 40.1			349
C/2015 F4	2015 06 10.98662	20 55 37.84	−18 41 19.4	13.6 N		585
C/2015 F4	2015 06 10.98698	20 55 37.84	−18 41 18.4	13.6 N		585
C/2015 F4	2015 06 10.98734	20 55 37.84	−18 41 17.4	13.6 N		585
C/2015 F4	2015 06 10.98770	20 55 37.81	−18 41 16.6	13.6 N		585
C/2015 F4	2015 06 10.98806	20 55 37.81	−18 41 15.4	13.5 N		585
C/2015 F4	2015 06 10.98842	20 55 37.81	−18 41 14.5	13.6 N		585
C/2015 F4	2015 06 10.98878	20 55 37.80	−18 41 13.6	13.6 N		585
C/2015 F4	2015 06 10.98914	20 55 37.78	−18 41 12.9	13.6 N		585
C/2015 F4	2015 06 10.98950	20 55 37.76	−18 41 11.9	13.6 N		585
C/2015 F4	2015 06 10.98986	20 55 37.77	−18 41 10.7	13.5 N		585
C/2015 F4	2015 06 10.99023	20 55 37.73	−18 41 09.8	13.6 N		585
C/2015 F4	2015 06 10.99059	20 55 37.73	−18 41 09.2	13.6 N		585
C/2015 F4	2015 06 10.99095	20 55 37.72	−18 41 08.2	13.7 N		585
C/2015 F4	2015 06 10.99131	20 55 37.76	−18 41 07.3	13.6 N		585
C/2015 F4	2015 06 10.99167	20 55 37.72	−18 41 06.3	13.6 N		585
C/2015 F4	2015 06 14.36627	20 54 08.93	−16 11 25.1	12.0 T	K	H06
C/2015 F4	2015 06 14.36755	20 54 08.89	−16 11 21.9	13.8 N	K	H06
C/2015 F4	2015 06 24.95946	20 45 36.20	−07 04 45.9	14.7 N		A71
C/2015 F4	2015 06 24.96106	20 45 36.10	−07 04 40.6	14.7 N		A71
C/2015 F4	2015 06 24.96269	20 45 35.99	−07 04 35.1	14.7 N		A71
C/2015 F4	2015 06 24.96429	20 45 35.87	−07 04 29.7	14.7 N		A71
C/2015 F4	2015 06 26.21579	20 44 11.27	−05 52 09.7	13.9 N		5W88
C/2015 F4	2015 06 26.23001	20 44 10.23	−05 51 19.9	13.9 N		5W88
C/2015 F4	2015 06 26.24400	20 44 09.20	−05 50 31.1	13.9 N		5W88
C/2015 F4	2015 06 26.25729	20 44 08.23	−05 49 44.8	13.9 N		5W88
C/2015 F4	2015 06 26.27479	20 44 06.94	−05 48 43.6	13.9 N		5W88
C/2015 F4	2015 06 28.70625	20 41 07.47	−03 24 37.5	12.5 T		372
C/2015 F4	2015 06 28.70972	20 41 07.18	−03 24 25.4			372
C/2015 F4	2015 06 29.97490	20 39 26.50	−02 07 26.2	14.5 N		K 160
C/2015 F4	2015 06 29.97765	20 39 26.27	−02 07 16.1	14.6 N		K 160
C/2015 F4	2015 06 29.98038	20 39 26.01	−02 07 06.3	14.8 N		K 160
C/2015 F4	2015 06 30.02568	20 39 22.24	−02 04 20.8	14.2 N		C23
C/2015 F4	2015 06 30.03242	20 39 21.60	−02 03 55.7	13.7 N		C23
C/2015 F4	2015 06 30.04067	20 39 20.91	−02 03 25.2	13.8 N		C23
C/2015 F4	2015 06 30.06866	20 39 18.58	−02 01 39.6	14.0 N		958
C/2015 F4	2015 06 30.08112	20 39 17.47	−02 00 53.7	14.0 N		958
C/2015 F4	2015 06 30.09516	20 39 16.31	−02 00 02.4	13.9 N		958
C/2015 F4	2015 07 01.00475	20 38 00.47	−01 03 52.2	13.7 N		K 160
C/2015 F4	2015 07 01.00749	20 38 00.23	−01 03 42.0	13.7 N		K 160
C/2015 F4	2015 07 01.01024	20 37 59.98	−01 03 31.3	13.7 N		K 160
C/2015 F4	2015 07 01.09219	20 37 53.02	−00 58 23.6	14.1 N		9 G40
C/2015 F4	2015 07 01.09540	20 37 52.74	−00 58 11.7	14.1 N		9 G40
C/2015 F4	2015 07 01.09890	20 37 52.41	−00 57 58.7	14.2 N		9 G40
C/2015 F4	2015 07 01.10236	20 37 52.11	−00 57 45.9	14.2 N		9 G40
C/2015 F4	2015 07 01.10582	20 37 51.81	−00 57 32.4	14.2 N		9 G40
C/2015 F4	2015 07 01.96144	20 36 37.76	−00 04 10.4	13.7 N		K 215
C/2015 F4	2015 07 01.96272	20 36 37.65	−00 04 05.5	13.7 N		K 215
C/2015 F4	2015 07 01.96400	20 36 37.53	−00 04 00.7	13.8 N		K 215
C/2015 F4	2015 07 01.97478	20 36 36.59	−00 03 19.2	13.7 N		K 160
C/2015 F4	2015 07 01.97754	20 36 36.34	−00 03 08.8	13.7 N		K 160
C/2015 F4	2015 07 01.98030	20 36 36.11	−00 02 58.3	13.8 N		K 160
C/2015 F4	2015 07 02.02325	20 36 32.19	−00 00 16.6	13.7 N		K 160
C/2015 F4	2015 07 02.98206	20 35 06.25	+01 00 09.4	13.7 N		K 160
C/2015 F4	2015 07 02.98483	20 35 05.99	+01 00 19.9	13.7 N		K 160
C/2015 F4	2015 07 02.98758	20 35 05.74	+01 00 30.3	13.7 N		K 160
C/2015 F4	2015 07 04.96195	20 31 59.74	+03 06 28.0	14.8 N		K 160
C/2015 F4	2015 07 04.96324	20 31 59.61	+03 06 33.0	15.0 N		K 160
C/2015 F4	2015 07 04.96485	20 31 59.44	+03 06 38.8	14.2 N		K 160
C/2015 F4	2015 07 05.92406	20 30 25.03	+04 08 26.8	13.5 N		K14
C/2015 F4	2015 07 05.93425	20 30 24.00	+04 09 06.1	13.5 N		K14
C/2015 F4	2015 07 05.99731	20 30 17.37	+04 13 09.6	14.6 N		K 160
C/2015 F4	2015 07 06.00002	20 30 17.12	+04 13 20.3	14.5 N		K 160
C/2015 F4	2015 07 06.00274	20 30 16.82	+04 13 30.8	14.5 N		K 160
C/2015 F4	2015 07 06.28335	20 29 48.24	+04 31 50.9	13.3 N		W96
C/2015 F4	2015 07 06.33405	20 29 42.90	+04 35 07.7	13.3 N		W96
C/2015 F4	2015 07 06.93124	20 28 42.70	+05 13 35.9	13.6 N	K	K25
C/2015 F4	2015 07 06.93301	20 28 42.51	+05 13 42.2	13.7 N		A77
C/2015 F4	2015 07 06.93472	20 28 42.32	+05 13 48.8	13.7 N		A77
C/2015 F4	2015 07 06.93609	20 28 42.19	+05 13 55.3	13.6 N	K	K25
C/2015 F4	2015 07 06.93650	20 28 42.16	+05 13 55.6	13.7 N		A77
C/2015 F4	2015 07 06.93816	20 28 41.98	+05 14 02.3	13.7 N		A77
C/2015 F4	2015 07 06.93980	20 28 41.79	+05 14 09.1	13.7 N		A77
C/2015 F4	2015 07 06.94127	20 28 41.63	+05 14 14.8	13.6 N	K	K25
C/2015 F4	2015 07 06.94189	20 28 41.56	+05 14 17.3	13.7 N		A77
C/2015 F4	2015 07 06.98471	20 28 37.03	+05 17 03.4	13.4 N		B96
C/2015 F4	2015 07 06.98969	20 28 36.50	+05 17 23.1	13.4 N		B96
C/2015 F4	2015 07 06.98994	20 28 36.43	+05 17 24.7	14.5 N		K 160
C/2015 F4	2015 07 06.99268	20 28 36.14	+05 17 35.4	14.5 N		K 160
C/2015 F4	2015 07 06.99339	20 28 36.19	+05 17 37.7	13.1 N		J38
C/2015 F4	2015 07 06.99390	20 28 36.17	+05 17 39.7	13.1 N		J38
C/2015 F4	2015 07 06.99466	20 28 35.98	+05 17 42.4	13.4 N		B96
C/2015 F4	2015 07 06.99493	20 28 36.05	+05 17 43.7	13.1 N		J38
C/2015 F4	2015 07 06.99544	20 28 35.87	+05 17 46.1	14.5 N		K 160
C/2015 F4	2015 07 07.00071	20 28 35.30	+05 18 04.9	13.5 N		C23
C/2015 F4	2015 07 07.00745	20 28 34.56	+05 18 31.2	13.5 N		C23
C/2015 F4	2015 07 07.01494	20 28 33.80	+05 19 00.7	14.0 N		C23
C/2015 F4	2015 07 07.30909	20 28 03.55	+05 38 08.3	13.3 N		17U69
C/2015 F4	2015 07 07.30969	20 28 03.48	+05 38 10.6	13.3 N		17U69
C/2015 F4	2015 07 07.31617	20 28 02.78	+05 38 35.8	13.2 N		17U69
C/2015 F4	2015 07 07.92409	20 26 59.07	+06 18 03.9	13.5 N	K	K25
C/2015 F4	2015 07 07.93462	20 26 57.95	+06 18 44.5	13.6 N		B51
C/2015 F4	2015 07 07.93545	20 26 57.84	+06 18 47.4	13.5 N	K	K25
C/2015 F4	2015 07 07.93730	20 26 57.64	+06 18 55.0	13.7 N		B51
C/2015 F4	2015 07 07.93921	20 26 57.44	+06 19 02.1	13.6 N		B51
C/2015 F4	2015 07 07.94084	20 26 57.38	+06 19 08.9	14.3 N		J01
C/2015 F4	2015 07 07.94102	20 26 57.24	+06 19 09.4	13.3 N	K	K25
C/2015 F4	2015 07 07.94113	20 26 57.24	+06 19 09.6	13.6 N		B51

C/2015 F4	2015 07 07.94367	20 26 56.97	+06 19 19.8	13.6	N	B51
C/2015 F4	2015 07 07.94561	20 26 56.76	+06 19 27.3	13.6	N	B51
C/2015 F4	2015 07 07.94663	20 26 56.75	+06 19 31.3	14.2	N	J01
C/2015 F4	2015 07 07.96164	20 26 55.13	+06 20 29.8	14.3	N	J01
C/2015 F4	2015 07 07.96632	20 26 54.15	+06 20 46.9	13.1	T	583
C/2015 F4	2015 07 07.96701	20 26 54.18	+06 20 50.4	13.1	T	583
C/2015 F4	2015 07 07.96771	20 26 54.10	+06 20 53.0	13.0	T	583
C/2015 F4	2015 07 07.96979	20 26 53.76	+06 20 59.3	13.6	T	583
C/2015 F4	2015 07 07.97100	20 26 53.71	+06 21 01.0	13.4	T	583
C/2015 F4	2015 07 07.97308	20 26 53.42	+06 21 14.3	13.1	T	583
C/2015 F4	2015 07 07.97377	20 26 53.63	+06 21 23.5	13.1	T	583
C/2015 F4	2015 07 07.97447	20 26 53.37	+06 21 19.3	13.1	T	583
C/2015 F4	2015 07 07.97516	20 26 52.84	+06 21 24.1	13.0	T	583
C/2015 F4	2015 07 07.99196	20 26 51.46	+06 22 27.5	13.1	T	583
C/2015 F4	2015 07 07.99265	20 26 51.38	+06 22 30.3	13.3	T	583
C/2015 F4	2015 07 07.99334	20 26 51.30	+06 22 33.0	13.0	T	583
C/2015 F4	2015 07 07.99404	20 26 51.24	+06 22 35.6	13.0	T	583
C/2015 F4	2015 07 07.99473	20 26 51.15	+06 22 38.4	13.0	T	583
C/2015 F4	2015 07 07.99543	20 26 51.07	+06 22 40.9	13.0	T	583
C/2015 F4	2015 07 07.99612	20 26 50.99	+06 22 43.5	13.0	T	583
C/2015 F4	2015 07 07.99682	20 26 50.92	+06 22 46.5	13.1	T	583
C/2015 F4	2015 07 08.90571	20 25 13.77	+07 21 53.3	13.6	N	L22
C/2015 F4	2015 07 08.90641	20 25 13.72	+07 21 56.1	13.7	N	L22
C/2015 F4	2015 07 08.90782	20 25 13.55	+07 22 02.0	13.6	N	L22
C/2015 F4	2015 07 08.90853	20 25 13.48	+07 22 04.8	14.0	N	L22
C/2015 F4	2015 07 08.90924	20 25 13.34	+07 22 06.4	13.6	N	L22
C/2015 F4	2015 07 08.90995	20 25 13.26	+07 22 10.4	13.4	N	L22
C/2015 F4	2015 07 08.91137	20 25 13.08	+07 22 16.1	13.1	N	L22
C/2015 F4	2015 07 08.91207	20 25 13.07	+07 22 18.5	13.6	N	L22
C/2015 F4	2015 07 08.91278	20 25 12.98	+07 22 20.7	13.7	N	L22
C/2015 F4	2015 07 08.91561	20 25 12.68	+07 22 32.4	13.9	N	L22
C/2015 F4	2015 07 08.91632	20 25 12.59	+07 22 35.4	13.8	N	L22
C/2015 F4	2015 07 08.91703	20 25 12.52	+07 22 37.5	13.6	N	L22
C/2015 F4	2015 07 08.91774	20 25 12.41	+07 22 40.6	13.6	N	L22
C/2015 F4	2015 07 08.91845	20 25 12.36	+07 22 43.2	13.7	N	L22
C/2015 F4	2015 07 08.91916	20 25 12.28	+07 22 45.9	13.5	N	L22
C/2015 F4	2015 07 08.91986	20 25 12.18	+07 22 49.3	13.8	N	L22
C/2015 F4	2015 07 08.92057	20 25 12.12	+07 22 51.7	13.6	N	L22
C/2015 F4	2015 07 08.92128	20 25 12.05	+07 22 54.2	13.7	N	L22
C/2015 F4	2015 07 08.92199	20 25 11.95	+07 22 57.6	13.8	N	L22
C/2015 F4	2015 07 08.92270	20 25 11.89	+07 22 59.7	13.6	N	L22
C/2015 F4	2015 07 08.92340	20 25 11.81	+07 23 02.6	13.6	N	L22
C/2015 F4	2015 07 08.92411	20 25 11.73	+07 23 05.4	13.7	N	L22
C/2015 F4	2015 07 08.92481	20 25 11.65	+07 23 08.2	13.5	N	L22
C/2015 F4	2015 07 08.92553	20 25 11.57	+07 23 10.9	13.6	N	L22
C/2015 F4	2015 07 08.92624	20 25 11.49	+07 23 13.8	13.6	N	L22
C/2015 F4	2015 07 09.01416	20 25 01.96	+07 28 58.2	13.4	N	K Z81
C/2015 F4	2015 07 09.03496	20 24 59.62	+07 30 19.6	13.6	N	K Z81
C/2015 F4	2015 07 09.05652	20 24 57.20	+07 31 43.7	13.5	N	K Z81
C/2015 F4	2015 07 09.14693	20 24 47.59	+07 37 49.9	13.6	N	I39
C/2015 F4	2015 07 09.15813	20 24 46.32	+07 38 34.2	13.6	N	I39
C/2015 F4	2015 07 09.16973	20 24 45.03	+07 39 19.7	13.6	N	I39
C/2015 F4	2015 07 09.90531	20 23 24.26	+08 26 56.1	13.1	N	C86
C/2015 F4	2015 07 09.90764	20 23 23.99	+08 27 05.3	13.1	N	C86
C/2015 F4	2015 07 09.90918	20 23 23.81	+08 27 11.8	13.1	N	C86
C/2015 F4	2015 07 09.93557	20 23 20.83	+08 28 54.0	13.0	N	B49
C/2015 F4	2015 07 09.93736	20 23 20.62	+08 29 01.2	13.3	N	B49
C/2015 F4	2015 07 09.94007	20 23 20.34	+08 29 12.4	14.0	N	B49
C/2015 F4	2015 07 09.96801	20 23 17.09	+08 31 00.6	14.2	N	B96
C/2015 F4	2015 07 09.97299	20 23 16.53	+08 31 19.9	14.2	N	B96
C/2015 F4	2015 07 09.97454	20 23 16.25	+08 31 26.1	15.1	N	C47
C/2015 F4	2015 07 09.97713	20 23 15.95	+08 31 36.1	14.9	N	C47
C/2015 F4	2015 07 09.97796	20 23 15.96	+08 31 39.1	14.2	N	B96
C/2015 F4	2015 07 09.97968	20 23 15.73	+08 31 45.3	13.4	N	C23
C/2015 F4	2015 07 09.98008	20 23 15.61	+08 31 47.5	14.9	N	C47
C/2015 F4	2015 07 09.98303	20 23 15.28	+08 31 59.1	14.8	N	C47
C/2015 F4	2015 07 09.98342	20 23 15.27	+08 31 59.7	13.4	N	C23
C/2015 F4	2015 07 09.98598	20 23 14.95	+08 32 11.0	14.8	N	C47
C/2015 F4	2015 07 09.98717	20 23 14.87	+08 32 14.5	13.6	N	C23
C/2015 F4	2015 07 09.98893	20 23 14.63	+08 32 22.2	14.9	N	C47
C/2015 F4	2015 07 09.99005	20 23 14.42	+08 32 26.9	12.8	N	B51
C/2015 F4	2015 07 09.99222	20 23 14.15	+08 32 34.8	12.8	N	B51
C/2015 F4	2015 07 09.99440	20 23 14.07	+08 32 41.2	13.0	N	B51
C/2015 F4	2015 07 10.14175	20 22 57.68	+08 42 10.9	14.8	N	750
C/2015 F4	2015 07 10.15161	20 22 56.25	+08 43 04.4	14.7	T	Y00
C/2015 F4	2015 07 10.15324	20 22 56.17	+08 43 13.0	14.2	T	Y00
C/2015 F4	2015 07 10.15511	20 22 55.99	+08 43 21.2	14.1	T	Y00
C/2015 F4	2015 07 10.15999	20 22 55.56	+08 43 23.3	14.5	N	750
C/2015 F4	2015 07 10.30371	20 22 39.10	+08 53 03.8	13.6	N	W96
C/2015 F4	2015 07 10.30528	20 22 38.90	+08 53 09.8	13.6	N	W96
C/2015 F4	2015 07 10.30685	20 22 38.72	+08 53 15.9	13.6	N	W96
C/2015 F4	2015 07 10.48540	20 22 19.54	+09 04 39.7	11.8	T	349
C/2015 F4	2015 07 10.48709	20 22 19.33	+09 04 46.4			349
C/2015 F4	2015 07 10.49214	20 22 18.78	+09 05 05.6			349
C/2015 F4	2015 07 10.49405	20 22 18.56	+09 05 13.4			349
C/2015 F4	2015 07 10.53137	20 22 14.20	+09 07 39.2	11.7	T	D95
C/2015 F4	2015 07 10.53648	20 22 13.61	+09 07 59.1			D95
C/2015 F4	2015 07 10.54232	20 22 12.95	+09 08 22.1			D95
C/2015 F4	2015 07 10.88179	20 21 34.71	+09 30 25.1	13.1	N	I57
C/2015 F4	2015 07 10.88922	20 21 33.84	+09 30 53.8	13.1	N	I57
C/2015 F4	2015 07 10.89668	20 21 32.98	+09 31 23.0	13.2	N	I57
C/2015 F4	2015 07 10.92985	20 21 29.08	+09 33 31.9	13.1	N	K14
C/2015 F4	2015 07 10.93285	20 21 28.71	+09 33 43.0	13.0	N	C86
C/2015 F4	2015 07 10.93441	20 21 28.50	+09 33 49.5	13.0	N	C86
C/2015 F4	2015 07 10.93598	20 21 28.32	+09 33 55.5	13.1	N	C86
C/2015 F4	2015 07 10.94152	20 21 27.65	+09 34 17.2	13.1	N	K14
C/2015 F4	2015 07 10.94160	20 21 27.59	+09 34 16.0	13.7	N	C23
C/2015 F4	2015 07 10.94663	20 21 27.13	+09 34 37.4	12.9	N	C35
C/2015 F4	2015 07 10.94833	20 21 26.93	+09 34 44.2	12.9	N	C35
C/2015 F4	2015 07 10.95002	20 21 26.68	+09 34 50.7	12.9	N	C35
C/2015 F4	2015 07 10.95244	20 21 26.33	+09 34 58.1	13.2	N	C23
C/2015 F4	2015 07 10.95515	20 21 26.14	+09 35 11.3	13.1	N	K14
C/2015 F4	2015 07 10.95700	20 21 25.67	+09 35 16.7	13.1	N	247
C/2015 F4	2015 07 10.95700	1 24.0062	+49.8483	289		247
C/2015 F4	2015 07 10.95737	20 21 25.62	+09 35 18.0			247
C/2015 F4	2015 07 10.95737	1 24.0062	+49.8483	289		247

C/2015 F4	2015 07 10.95814	20 21 25.54	+09 35 20.6			247
C/2015 F4	2015 07 10.95814	1 24.0062	+49.8483	289		247
C/2015 F4	2015 07 10.95927	20 21 25.44	+09 35 25.4			247
C/2015 F4	2015 07 10.95927	1 24.0062	+49.8483	289		247
C/2015 F4	2015 07 10.95956	20 21 25.45	+09 35 26.3	14.9	N	C47
C/2015 F4	2015 07 10.96143	20 21 25.31	+09 35 33.0	13.6	N	C23
C/2015 F4	2015 07 10.96325	20 21 25.00	+09 35 41.3	14.7	N	C47
C/2015 F4	2015 07 10.96485	20 21 24.87	+09 35 48.2	14.2	N	K 160
C/2015 F4	2015 07 10.96493	20 21 24.97	+09 35 48.6	13.2	N	B20
C/2015 F4	2015 07 10.96681	20 21 24.76	+09 35 56.4	13.2	N	B20
C/2015 F4	2015 07 10.96731	20 21 24.53	+09 35 57.3	14.8	N	C47
C/2015 F4	2015 07 10.96774	20 21 24.62	+09 36 00.0	13.2	N	B20
C/2015 F4	2015 07 10.96830	20 21 24.46	+09 36 01.6	14.1	N	K 160
C/2015 F4	2015 07 10.96875	20 21 24.56	+09 36 03.6	13.0	N	I99
C/2015 F4	2015 07 10.96985	20 21 24.42	+09 36 08.0	13.1	N	I99
C/2015 F4	2015 07 10.97136	20 21 24.09	+09 36 13.0	14.6	N	C47
C/2015 F4	2015 07 10.97174	20 21 24.05	+09 36 15.2	14.2	N	K 160
C/2015 F4	2015 07 10.97374	20 21 23.99	+09 36 23.3	13.1	N	I99
C/2015 F4	2015 07 10.97542	20 21 23.59	+09 36 28.6	14.6	N	C47
C/2015 F4	2015 07 10.97948	20 21 23.13	+09 36 44.6	14.5	N	C47
C/2015 F4	2015 07 10.98446	20 21 22.59	+09 37 04.5	13.3	N	K C77
C/2015 F4	2015 07 10.98656	20 21 22.37	+09 37 12.6	13.3	N	K C77
C/2015 F4	2015 07 10.98914	20 21 22.08	+09 37 22.8	13.3	N	K C77
C/2015 F4	2015 07 10.98939	20 21 22.05	+09 37 23.4	13.5	N	B83
C/2015 F4	2015 07 11.00284	20 21 20.44	+09 38 16.5	13.9	N	107
C/2015 F4	2015 07 11.01071	20 21 19.54	+09 38 46.4	13.7	N	B83
C/2015 F4	2015 07 11.02794	20 21 17.51	+09 39 53.4	13.5	N	B83
C/2015 F4	2015 07 11.02813	20 21 17.54	+09 39 54.6	13.0	N	939
C/2015 F4	2015 07 11.03014	20 21 17.22	+09 40 02.6	13.3	N	107
C/2015 F4	2015 07 11.03161	20 21 17.12	+09 40 08.5	13.1	N	939
C/2015 F4	2015 07 11.03334	20 21 16.92	+09 40 15.2	13.0	N	939
C/2015 F4	2015 07 11.03494	20 21 16.84	+09 40 21.7	13.9	N	J01
C/2015 F4	2015 07 11.03884	20 21 16.35	+09 40 37.0	14.1	N	J01
C/2015 F4	2015 07 11.04756	20 21 14.93	+09 41 03.8	11.3	T	K 104
C/2015 F4	2015 07 11.05496	20 21 14.10	+09 41 32.6	11.3	T	K 104
C/2015 F4	2015 07 11.05788	20 21 13.96	+09 41 50.5	13.2	N	107
C/2015 F4	2015 07 11.05848	20 21 14.05	+09 41 53.4	14.1	N	J01
C/2015 F4	2015 07 11.06234	20 21 13.32	+09 42 04.4	11.6	T	K 104
C/2015 F4	2015 07 11.59947	20 20 12.23	+10 16 59.0	11.6	T	349
C/2015 F4	2015 07 11.60123	20 20 12.03	+10 17 06.0			349
C/2015 F4	2015 07 11.60302	20 20 11.82	+10 17 13.1			349
C/2015 F4	2015 07 11.62292	20 20 09.40	+10 18 29.5			D81
C/2015 F4	2015 07 11.62351	20 20 09.36	+10 18 31.5			D81
C/2015 F4	2015 07 11.62410	20 20 09.29	+10 18 33.8			D81
C/2015 F4	2015 07 11.62469	20 20 09.22	+10 18 36.3	11.1	T	D81
C/2015 F4	2015 07 11.66332	20 20 04.60	+10 21 06.5	11.8	T	D95
C/2015 F4	2015 07 11.66624	20 20 04.25	+10 21 17.8			D95
C/2015 F4	2015 07 11.66843	20 20 03.99	+10 21 26.3			D95
C/2015 F4	2015 07 11.92853	20 19 34.17	+10 38 14.8	14.5	N	C47
C/2015 F4	2015 07 11.93148	20 19 33.82	+10 38 26.1	14.9	N	C47
C/2015 F4	2015 07 11.93554	20 19 33.32	+10 38 42.1	14.8	N	C47
C/2015 F4	2015 07 11.93960	20 19 32.85	+10 38 57.9	14.7	N	C47
C/2015 F4	2015 07 11.94366	20 19 32.36	+10 39 13.7	14.6	N	C47
C/2015 F4	2015 07 11.94772	20 19 31.89	+10 39 29.4	14.7	N	C47
C/2015 F4	2015 07 11.95178	20 19 31.39	+10 39 45.1	14.2	N	C47
C/2015 F4	2015 07 11.95251	20 19 31.36	+10 39 48.8	14.2	N	K 160
C/2015 F4	2015 07 11.95594	20 19 30.95	+10 40 02.1	14.3	N	K 160
C/2015 F4	2015 07 11.95936	20 19 30.54	+10 40 15.4	14.3	N	K 160
C/2015 F4	2015 07 11.96169	20 19 30.35	+10 40 24.3	12.9	N	939
C/2015 F4	2015 07 11.96344	20 19 30.14	+10 40 31.0	13.0	N	939
C/2015 F4	2015 07 11.96517	20 19 29.92	+10 40 37.7	13.0	N	939
C/2015 F4	2015 07 11.97223	20 19 29.14	+10 41 06.3	13.0	N	17 I89
C/2015 F4	2015 07 11.97349	20 19 28.97	+10 41 11.0			17 I89
C/2015 F4	2015 07 11.97471	20 19 28.69	+10 41 15.0	13.5	N	K 157
C/2015 F4	2015 07 11.97537	20 19 28.61	+10 41 17.2	14.0	N	595
C/2015 F4	2015 07 11.97682	20 19 28.42	+10 41 23.5	13.4	N	K 157
C/2015 F4	2015 07 11.97893	20 19 28.18	+10 41 31.8	13.4	N	K 157
C/2015 F4	2015 07 11.98104	20 19 27.93	+10 41 39.9	13.5	N	K 157
C/2015 F4	2015 07 11.98246	20 19 27.76	+10 41 44.8	13.9	N	595
C/2015 F4	2015 07 11.98316	20 19 27.66	+10 41 47.8	13.5	N	K 157
C/2015 F4	2015 07 11.98867	20 19 27.02	+10 42 08.9	14.2	N	595
C/2015 F4	2015 07 12.87507	20 17 43.33	+11 39 21.0	13.6	N	K L04
C/2015 F4	2015 07 12.87940	20 17 42.76	+11 39 37.4	13.6	N	K L04
C/2015 F4	2015 07 12.88412	20 17 42.23	+11 39 56.2	13.6	N	K L04
C/2015 F4	2015 07 12.88888	20 17 41.87	+11 40 14.8	13.1	N	I99
C/2015 F4	2015 07 12.88977	20 17 41.54	+11 40 17.8	13.6	N	K L04
C/2015 F4	2015 07 12.89074	20 17 41.65	+11 40 22.3	13.0	N	I99
C/2015 F4	2015 07 12.89166	20 17 41.53	+11 40 25.8	13.1	N	I99
C/2015 F4	2015 07 12.94972	20 17 34.38	+11 44 10.2	14.2	N	K 160
C/2015 F4	2015 07 12.95149	20 17 34.17	+11 44 17.1	14.2	N	K 160
C/2015 F4	2015 07 12.95312	20 17 33.97	+11 44 23.2	14.3	N	K 160
C/2015 F4	2015 07 12.95779	20 17 33.47	+11 44 41.5	13.9	N	958
C/2015 F4	2015 07 12.97176	20 17 31.73	+11 45 35.0	13.8	N	958
C/2015 F4	2015 07 12.98781	20 17 29.79	+11 46 37.0	13.8	N	958
C/2015 F4	2015 07 13.00368	20 17 27.93	+11 47 38.8	13.3	N	K Z81
C/2015 F4	2015 07 13.02709	20 17 25.06	+11 49 09.4	13.2	N	K Z81
C/2015 F4	2015 07 13.05102	20 17 22.13	+11 50 41.7	13.5	N	K Z81
C/2015 F4	2015 07 13.30363	20 16 51.70	+12 07 07.5	13.2	N	W96
C/2015 F4	2015 07 13.33280	20 16 48.14	+12 08 59.6	13.1	N	W96
C/2015 F4	2015 07 13.34295	20 16 47.23	+12 09 28.6	12.3	N	H45
C/2015 F4	2015 07 13.34549	20 16 46.93	+12 09 38.4	12.4	N	H45
C/2015 F4	2015 07 13.34653	20 16 46.80	+12 09 42.4	12.3	N	H45
C/2015 F4	2015 07 13.34754	20 16 46.67	+12 09 46.3	12.3	N	H45
C/2015 F4	2015 07 13.34884	20 16 46.51	+12 09 51.3	12.4	N	H45
C/2015 F4	2015 07 13.35024	20 16 46.34	+12 09 56.7	12.3	N	H45
C/2015 F4	2015 07 13.35168	20 16 46.16	+12 10 02.3	12.4	N	H45
C/2015 F4	2015 07 13.35302	20 16 45.98	+12 10 07.5	12.3	N	H45
C/2015 F4	2015 07 13.35455	20 16 45.81	+12 10 13.1	12.4	N	H45
C/2015 F4	2015 07 13.35629	20 16 45.59	+12 10 20.0	12.4	N	H45
C/2015 F4	2015 07 13.65742	20 16 09.73	+12 29 37.6			D81
C/2015 F4	2015 07 13.65801	20 16 09.67	+12 29 40.2			D81
C/2015 F4	2015 07 13.65860	20 16 09.60	+12 29 42.5			D81
C/2015 F4	2015 07 13.65919	20 16 09.52	+12 29 44.9	11.1	T	D81
C/2015 F4	2015 07 13.85991	20 15 45.87	+12 42 34.1	13.1	T	K41
C/2015 F4	2015 07 13.86155	20 15 45.69	+12 42 40.5	13.1	T	K41
C/2015 F4	2015 07 13.86304	20 15 45.50	+12 42 46.1	13.1	T	K41

C/2015 F4	2015 07 13.86454	20 15 45.33	+12 42 51.4	13.1	T	K41
C/2015 F4	2015 07 13.86596	20 15 45.14	+12 42 56.9	13.1	T	K41
C/2015 F4	2015 07 13.90412	20 15 40.44	+12 45 23.9	13.1	T	K41
C/2015 F4	2015 07 13.90558	20 15 40.27	+12 45 29.3	13.1	T	K41
C/2015 F4	2015 07 13.90703	20 15 40.12	+12 45 34.6	13.1	T	K41
C/2015 F4	2015 07 13.90847	20 15 39.91	+12 45 40.9	13.1	T	K41
C/2015 F4	2015 07 13.90992	20 15 39.75	+12 45 45.6	13.1	T	K41
C/2015 F4	2015 07 13.91976	20 15 38.54	+12 46 24.3	13.5	N	K K32
C/2015 F4	2015 07 13.92517	20 15 37.86	+12 46 45.0	13.3	N	K K32
C/2015 F4	2015 07 13.93030	20 15 37.23	+12 47 04.9	13.4	N	K K32
C/2015 F4	2015 07 13.98123	20 15 31.05	+12 50 19.8	13.0	N	J38
C/2015 F4	2015 07 13.98238	20 15 30.93	+12 50 24.2	13.0	N	J38
C/2015 F4	2015 07 13.98295	20 15 30.88	+12 50 26.4	13.0	N	J38
C/2015 F4	2015 07 14.12826	20 15 12.69	+12 59 44.4	13.1	N	213
C/2015 F4	2015 07 14.13765	20 15 11.52	+13 00 20.2	13.1	N	213
C/2015 F4	2015 07 14.14630	20 15 10.46	+13 00 53.0	13.1	N	213
C/2015 F4	2015 07 14.32344	20 14 49.30	+13 12 13.0	12.6	N	H45
C/2015 F4	2015 07 14.32565	20 14 49.02	+13 12 21.5	12.6	N	H45
C/2015 F4	2015 07 14.32736	20 14 48.81	+13 12 27.9	12.5	N	H45
C/2015 F4	2015 07 14.32811	20 14 48.70	+13 12 30.8	12.6	N	H45
C/2015 F4	2015 07 14.32942	20 14 48.53	+13 12 35.8	12.5	N	H45
C/2015 F4	2015 07 14.33057	20 14 48.39	+13 12 40.2	12.6	N	H45
C/2015 F4	2015 07 14.33180	20 14 48.24	+13 12 44.9	11.1	T	H45
C/2015 F4	2015 07 14.33323	20 14 48.06	+13 12 50.4	11.2	T	H45
C/2015 F4	2015 07 14.88348	20 13 41.49	+13 47 49.4	13.5	N	A77
C/2015 F4	2015 07 14.88951	20 13 40.73	+13 48 11.9	12.9	N	A77
C/2015 F4	2015 07 14.89628	20 13 39.88	+13 48 37.3	12.8	N	A77
C/2015 F4	2015 07 14.94724	20 13 33.55	+13 51 50.7	13.4	N	K K25
C/2015 F4	2015 07 14.95502	20 13 32.57	+13 52 20.9	13.4	N	K K25
C/2015 F4	2015 07 14.96307	20 13 31.56	+13 52 51.5	13.4	N	K K25
C/2015 F4	2015 07 15.23281	20 12 58.56	+14 09 57.3	13.2	N	L H06
C/2015 F4	2015 07 15.23361	20 12 58.46	+14 10 00.5	13.3	N	L H06
C/2015 F4	2015 07 15.23441	20 12 58.36	+14 10 03.6	13.3	N	L H06
C/2015 F4	2015 07 15.33722	20 12 45.10	+14 16 34.0	13.2	N	K H47
C/2015 F4	2015 07 15.34052	20 12 44.68	+14 16 46.4	13.2	N	K H47
C/2015 F4	2015 07 15.34367	20 12 44.28	+14 16 58.3	13.2	N	K H47
C/2015 F4	2015 07 15.34823	20 12 43.70	+14 17 15.6	13.2	N	K H47
C/2015 F4	2015 07 15.90931	20 11 34.81	+14 52 34.6	13.4	N	K22
C/2015 F4	2015 07 15.91857	20 11 33.64	+14 53 09.5	13.4	N	K22
C/2015 F4	2015 07 15.92036	20 11 33.28	+14 53 15.4	15.0	N	C47
C/2015 F4	2015 07 15.92331	20 11 32.93	+14 53 26.5	14.7	N	C47
C/2015 F4	2015 07 15.92382	20 11 32.69	+14 53 26.8	12.6	N	C36
C/2015 F4	2015 07 15.92470	20 11 32.62	+14 53 29.7	12.4	N	C36
C/2015 F4	2015 07 15.92559	20 11 32.47	+14 53 34.2	12.9	N	C36
C/2015 F4	2015 07 15.92647	20 11 32.35	+14 53 37.7	12.8	N	C36
C/2015 F4	2015 07 15.92664	20 11 32.48	+14 53 39.2	14.8	N	C47
C/2015 F4	2015 07 15.92735	20 11 32.26	+14 53 40.8	12.9	N	C36
C/2015 F4	2015 07 15.92798	20 11 32.45	+14 53 44.7	13.4	N	K22
C/2015 F4	2015 07 15.92911	20 11 32.01	+14 53 47.9	12.1	N	C36
C/2015 F4	2015 07 15.92996	20 11 32.08	+14 53 51.5	14.8	N	C47
C/2015 F4	2015 07 15.93175	20 11 31.68	+14 53 57.6	12.0	N	C36
C/2015 F4	2015 07 15.93264	20 11 31.57	+14 54 01.0	12.0	N	C36
C/2015 F4	2015 07 15.93328	20 11 31.65	+14 54 03.9	14.7	N	C47
C/2015 F4	2015 07 15.93352	20 11 31.46	+14 54 04.5	12.5	N	C36
C/2015 F4	2015 07 15.93440	20 11 31.34	+14 54 07.5	12.9	N	C36
C/2015 F4	2015 07 15.93528	20 11 31.22	+14 54 11.3	12.9	N	C36
C/2015 F4	2015 07 15.93660	20 11 31.22	+14 54 17.0	14.7	N	C47
C/2015 F4	2015 07 15.93792	20 11 30.89	+14 54 21.0	12.9	N	C36
C/2015 F4	2015 07 15.94072	20 11 30.53	+14 54 31.5	12.9	N	C36
C/2015 F4	2015 07 15.94160	20 11 30.40	+14 54 34.9	12.9	N	C36
C/2015 F4	2015 07 15.94248	20 11 30.30	+14 54 37.7	12.9	N	C36
C/2015 F4	2015 07 15.95403	20 11 29.08	+14 55 22.0	12.8	N	C10
C/2015 F4	2015 07 15.97123	20 11 26.89	+14 56 26.8	12.9	N	C10
C/2015 F4	2015 07 15.99343	20 11 24.05	+14 57 50.2	12.9	N	C10
C/2015 F4	2015 07 16.88593	20 09 32.53	+15 53 35.0	12.5	N	B51
C/2015 F4	2015 07 16.88718	20 09 32.37	+15 53 40.0	12.5	N	B51
C/2015 F4	2015 07 16.88813	20 09 32.26	+15 53 43.2	12.5	N	B51
C/2015 F4	2015 07 16.88971	20 09 32.04	+15 53 49.2	12.5	N	B51
C/2015 F4	2015 07 16.89067	20 09 31.92	+15 53 52.8	12.5	N	B51
C/2015 F4	2015 07 16.91705	20 09 28.46	+15 55 31.2	12.4	T	K41
C/2015 F4	2015 07 16.91758	20 09 28.39	+15 55 33.2	12.4	T	K41
C/2015 F4	2015 07 16.91860	20 09 28.26	+15 55 37.1	12.4	T	K41
C/2015 F4	2015 07 16.91913	20 09 28.19	+15 55 38.9	12.4	T	K41
C/2015 F4	2015 07 16.92015	20 09 28.06	+15 55 42.8	12.4	T	K41
C/2015 F4	2015 07 16.92069	20 09 27.99	+15 55 44.9	12.4	T	K41
C/2015 F4	2015 07 16.92123	20 09 27.92	+15 55 46.7	12.4	T	K41
C/2015 F4	2015 07 16.92189	20 09 27.83	+15 55 49.2	12.4	T	K41
C/2015 F4	2015 07 16.92242	20 09 27.76	+15 55 51.4	12.4	T	K41
C/2015 F4	2015 07 16.92300	20 09 27.69	+15 55 53.5	12.4	T	K41
C/2015 F4	2015 07 16.92354	20 09 27.62	+15 55 55.5	12.4	T	K41
C/2015 F4	2015 07 16.92457	20 09 27.48	+15 55 59.4	12.4	T	K41
C/2015 F4	2015 07 16.92509	20 09 27.43	+15 56 01.1	12.4	T	K41
C/2015 F4	2015 07 16.92568	20 09 27.34	+15 56 03.3	12.4	T	K41
C/2015 F4	2015 07 16.92627	20 09 27.27	+15 56 05.7	12.4	T	K41
C/2015 F4	2015 07 16.92679	20 09 27.20	+15 56 07.7	12.4	T	K41
C/2015 F4	2015 07 16.92733	20 09 27.13	+15 56 09.6	12.4	T	K41
C/2015 F4	2015 07 16.92843	20 09 27.01	+15 56 14.4	12.4	T	K41
C/2015 F4	2015 07 16.93015	20 09 26.76	+15 56 20.1	12.4	T	K41
C/2015 F4	2015 07 16.93067	20 09 26.70	+15 56 22.0	12.4	T	K41
C/2015 F4	2015 07 16.93123	20 09 26.60	+15 56 24.6	12.5	T	K41
C/2015 F4	2015 07 16.93175	20 09 26.56	+15 56 26.1	12.4	T	K41
C/2015 F4	2015 07 16.93227	20 09 26.49	+15 56 28.0	12.4	T	K41
C/2015 F4	2015 07 16.95818	20 09 23.25	+15 58 05.4	12.1	N	939
C/2015 F4	2015 07 16.96080	20 09 22.92	+15 58 15.0	12.1	N	939
C/2015 F4	2015 07 16.96253	20 09 22.69	+15 58 21.3	12.1	N	939
C/2015 F4	2015 07 17.90670	20 07 22.94	+16 56 36.0	12.7	N	K14
C/2015 F4	2015 07 17.91628	20 07 21.73	+16 57 12.0	12.7	N	K14
C/2015 F4	2015 07 17.93263	20 07 19.46	+16 58 08.8	11.3	T	104
C/2015 F4	2015 07 17.93777	20 07 18.59	+16 58 28.2	11.5	N	C36
C/2015 F4	2015 07 17.93852	20 07 18.50	+16 58 31.1	11.5	N	C36
C/2015 F4	2015 07 17.93928	20 07 18.42	+16 58 36.0	11.5	N	C36
C/2015 F4	2015 07 17.94843	20 07 17.19	+16 59 07.4	11.5	N	C36
C/2015 F4	2015 07 17.94918	20 07 17.10	+16 59 10.2	11.5	N	C36
C/2015 F4	2015 07 17.95130	20 07 17.09	+16 59 20.0	12.8	N	K K25
C/2015 F4	2015 07 17.95516	20 07 16.57	+16 59 34.4	12.8	N	K K25
C/2015 F4	2015 07 17.95528	20 07 16.24	+16 59 32.0	11.5	N	C36

C/2015 F4	2015 07 17.95681	20 07 16.09	+16 59 38.3	11.5	N	C36
C/2015 F4	2015 07 17.95756	20 07 16.00	+16 59 41.2	11.5	N	C36
C/2015 F4	2015 07 17.95832	20 07 15.89	+16 59 43.9	11.5	N	C36
C/2015 F4	2015 07 17.95909	20 07 15.79	+16 59 46.8	11.5	N	C36
C/2015 F4	2015 07 17.95913	20 07 16.06	+16 59 48.9	12.9	N	K K25
C/2015 F4	2015 07 17.96262	20 07 15.55	+17 00 01.9	13.7	N	K 160
C/2015 F4	2015 07 17.96592	20 07 15.11	+17 00 14.1	13.7	N	K 160
C/2015 F4	2015 07 17.96616	20 07 15.04	+17 00 12.6	11.4	T	104
C/2015 F4	2015 07 17.96927	20 07 14.67	+17 00 26.7	13.6	N	K 160
C/2015 F4	2015 07 17.98472	20 07 12.70	+17 01 21.8	12.3	N	C10
C/2015 F4	2015 07 17.98681	20 07 12.33	+17 01 31.2	14.4	N	B53
C/2015 F4	2015 07 17.98902	20 07 11.91	+17 01 40.0	12.9	N	B53
C/2015 F4	2015 07 17.99123	20 07 11.77	+17 01 47.5	14.2	N	B53
C/2015 F4	2015 07 17.99992	20 07 10.68	+17 02 16.2	11.2	T	104
C/2015 F4	2015 07 18.00265	20 07 10.35	+17 02 27.5	12.3	N	C10
C/2015 F4	2015 07 18.02347	20 07 07.62	+17 03 44.0	12.3	N	C10
C/2015 F4	2015 07 18.32012	20 06 29.52	+17 21 54.4	12.0	N	H45
C/2015 F4	2015 07 18.32242	20 06 29.22	+17 22 02.8	12.0	N	H45
C/2015 F4	2015 07 18.32323	20 06 29.11	+17 22 05.7	12.0	N	H45
C/2015 F4	2015 07 18.32511	20 06 28.86	+17 22 12.7	12.1	N	H45
C/2015 F4	2015 07 18.32714	20 06 28.59	+17 22 20.0	11.9	N	H45
C/2015 F4	2015 07 18.32870	20 06 28.39	+17 22 25.7	12.0	N	H45
C/2015 F4	2015 07 18.65190	20 05 46.95	+17 42 03.6			D81
C/2015 F4	2015 07 18.65249	20 05 46.89	+17 42 05.6			D81
C/2015 F4	2015 07 18.65308	20 05 46.81	+17 42 07.8			D81
C/2015 F4	2015 07 18.65367	20 05 46.73	+17 42 10.1	11.3	T	D81
C/2015 F4	2015 07 18.92341	20 05 12.34	+17 58 28.7	13.6	N	B51
C/2015 F4	2015 07 18.92479	20 05 12.17	+17 58 34.1	13.5	N	B51
C/2015 F4	2015 07 18.92606	20 05 12.00	+17 58 38.4	13.5	N	B51
C/2015 F4	2015 07 18.93322	20 05 11.06	+17 59 04.2	13.5	N	B51
C/2015 F4	2015 07 18.93450	20 05 10.89	+17 59 09.0	13.5	N	B51
C/2015 F4	2015 07 18.93578	20 05 10.73	+17 59 13.9	13.6	N	B51
C/2015 F4	2015 07 18.93705	20 05 10.55	+17 59 18.1	13.5	N	B51
C/2015 F4	2015 07 18.93865	20 05 10.33	+17 59 23.9	13.6	N	B51
C/2015 F4	2015 07 19.00752	20 05 01.31	+18 03 35.4	12.4	N	I72
C/2015 F4	2015 07 19.01045	20 05 00.91	+18 03 45.2	12.5	N	I72
C/2015 F4	2015 07 19.01192	20 05 00.75	+18 03 49.8	12.5	N	I72
C/2015 F4	2015 07 19.33499	20 04 18.59	+18 23 18.2	12.0	N	H45
C/2015 F4	2015 07 19.33720	20 04 18.29	+18 23 26.2	12.0	N	H45
C/2015 F4	2015 07 19.33814	20 04 18.17	+18 23 29.7	12.0	N	H45
C/2015 F4	2015 07 19.33910	20 04 18.05	+18 23 33.0	12.0	N	H45
C/2015 F4	2015 07 19.34017	20 04 17.90	+18 23 36.9	12.0	N	H45
C/2015 F4	2015 07 19.34106	20 04 17.78	+18 23 40.1	12.0	N	H45
C/2015 F4	2015 07 19.34201	20 04 17.65	+18 23 43.5	10.8	T	H45
C/2015 F4	2015 07 19.88175	20 03 08.17	+18 55 55.7	13.0	N	B96
C/2015 F4	2015 07 19.88192	20 03 07.93	+18 55 54.9	13.2	N	C36
C/2015 F4	2015 07 19.88315	20 03 07.74	+18 56 00.5	13.0	N	C36
C/2015 F4	2015 07 19.88438	20 03 07.64	+18 56 04.8	12.9	N	C36
C/2015 F4	2015 07 19.88507	20 03 07.74	+18 56 07.6	12.9	N	B96
C/2015 F4	2015 07 19.88683	20 03 07.29	+18 56 13.9	13.1	N	C36
C/2015 F4	2015 07 19.88806	20 03 07.12	+18 56 17.7	13.3	N	C36
C/2015 F4	2015 07 19.88839	20 03 07.28	+18 56 19.3	13.0	N	B96
C/2015 F4	2015 07 19.88928	20 03 06.94	+18 56 22.3	13.3	N	C36
C/2015 F4	2015 07 19.89052	20 03 06.79	+18 56 26.9	13.3	N	C36
C/2015 F4	2015 07 19.89170	20 03 06.84	+18 56 31.4	13.0	N	B96
C/2015 F4	2015 07 19.92463	20 03 02.44	+18 58 30.1	14.1	N	K 160
C/2015 F4	2015 07 19.92817	20 03 01.97	+18 58 42.7	14.1	N	K 160
C/2015 F4	2015 07 19.93304	20 03 01.32	+18 59 00.0	14.2	N	K 160
C/2015 F4	2015 07 19.96934	20 02 56.50	+19 01 10.0	13.4	N	K 958
C/2015 F4	2015 07 19.97607	20 02 55.63	+19 01 34.0	14.0	N	K 958
C/2015 F4	2015 07 19.98128	20 02 55.02	+19 01 52.5	13.7	N	J01
C/2015 F4	2015 07 19.98278	20 02 54.73	+19 01 57.5	14.0	N	K 958
C/2015 F4	2015 07 19.98342	20 02 54.68	+19 01 57.9	13.1	N	C23
C/2015 F4	2015 07 19.98609	20 02 54.39	+19 02 09.4	13.7	N	J01
C/2015 F4	2015 07 19.98717	20 02 54.12	+19 02 11.4	13.1	N	C23
C/2015 F4	2015 07 19.98928	20 02 53.95	+19 02 20.8	13.7	N	J01
C/2015 F4	2015 07 19.99167	20 02 53.54	+19 02 27.3	13.2	N	C23
C/2015 F4	2015 07 20.85529	20 01 00.89	+19 53 21.6	13.5	N	K L04
C/2015 F4	2015 07 20.85963	20 01 00.39	+19 53 37.4	13.1	T	K41
C/2015 F4	2015 07 20.86013	20 01 00.33	+19 53 38.5	13.1	T	K41
C/2015 F4	2015 07 20.86063	20 01 00.25	+19 53 40.2	13.0	T	K41
C/2015 F4	2015 07 20.86113	20 01 00.18	+19 53 42.0	13.0	T	K41
C/2015 F4	2015 07 20.86163	20 01 00.09	+19 53 44.1	13.1	T	K41
C/2015 F4	2015 07 20.86193	20 00 59.96	+19 53 45.0	13.5	N	K L04
C/2015 F4	2015 07 20.86213	20 01 00.06	+19 53 45.9	13.0	T	K41
C/2015 F4	2015 07 20.86263	20 00 59.98	+19 53 47.0	13.1	T	K41
C/2015 F4	2015 07 20.86313	20 00 59.92	+19 53 49.5	13.1	T	K41
C/2015 F4	2015 07 20.86362	20 00 59.83	+19 53 50.6	13.1	T	K41
C/2015 F4	2015 07 20.86413	20 00 59.78	+19 53 52.5	13.1	T	K41
C/2015 F4	2015 07 20.86463	20 00 59.71	+19 53 54.6	13.1	T	K41
C/2015 F4	2015 07 20.86513	20 00 59.65	+19 53 56.0	13.1	T	K41
C/2015 F4	2015 07 20.86563	20 00 59.59	+19 53 58.2	13.1	T	K41
C/2015 F4	2015 07 20.86612	20 00 59.51	+19 53 59.5	13.1	T	K41
C/2015 F4	2015 07 20.86662	20 00 59.48	+19 54 01.8	13.1	T	K41
C/2015 F4	2015 07 20.86712	20 00 59.37	+19 54 03.1	13.2	T	K41
C/2015 F4	2015 07 20.86763	20 00 59.33	+19 54 04.9	13.1	T	K41
C/2015 F4	2015 07 20.86813	20 00 59.28	+19 54 06.8	13.2	T	K41
C/2015 F4	2015 07 20.86823	20 00 59.12	+19 54 07.4	13.6	N	K L04
C/2015 F4	2015 07 20.86862	20 00 59.22	+19 54 08.5	13.1	T	K41
C/2015 F4	2015 07 20.86912	20 00 59.10	+19 54 10.1	13.1	T	K41
C/2015 F4	2015 07 20.86962	20 00 59.07	+19 54 12.0	13.1	T	K41
C/2015 F4	2015 07 20.87012	20 00 58.99	+19 54 13.6	13.1	T	K41
C/2015 F4	2015 07 20.87062	20 00 58.88	+19 54 14.5	12.9	T	K41
C/2015 F4	2015 07 20.87321	20 00 58.55	+19 54 24.4	13.0	T	K41
C/2015 F4	2015 07 20.87370	20 00 58.50	+19 54 26.5	13.0	T	K41
C/2015 F4	2015 07 20.87420	20 00 58.42	+19 54 27.5	13.1	T	K41
C/2015 F4	2015 07 20.87471	20 00 58.37	+19 54 30.0	13.1	T	K41
C/2015 F4	2015 07 20.87472	20 00 58.24	+19 54 30.0	13.6	N	K L04
C/2015 F4	2015 07 20.87521	20 00 58.30	+19 54 31.7	13.1	T	K41
C/2015 F4	2015 07 20.87544	20 00 58.31	+19 54 36.9	12.8	N	J31
C/2015 F4	2015 07 20.87906	20 00 57.78	+19 54 44.9	13.2	T	K41
C/2015 F4	2015 07 20.87956	20 00 57.76	+19 54 45.7	13.2	T	K41
C/2015 F4	2015 07 20.88006	20 00 57.65	+19 54 48.4	13.2	T	K41
C/2015 F4	2015 07 20.88056	20 00 57.62	+19 54 51.2	13.3	T	K41
C/2015 F4	2015 07 20.88096	20 00 57.55	+19 54 56.7	12.8	N	J31
C/2015 F4	2015 07 20.88105	20 00 57.50	+19 54 52.5	13.3	T	K41

C/2015 F4	2015 07 20.88155	20 00 57.45	+19 54 54.2	13.2	T	K41
C/2015 F4	2015 07 20.88206	20 00 57.39	+19 54 56.1	13.2	T	K41
C/2015 F4	2015 07 20.88256	20 00 57.36	+19 54 56.9	13.3	T	K41
C/2015 F4	2015 07 20.88306	20 00 57.25	+19 54 58.7	13.2	T	K41
C/2015 F4	2015 07 20.88355	20 00 57.19	+19 55 00.7	13.2	T	K41
C/2015 F4	2015 07 20.88405	20 00 57.13	+19 55 02.6	13.2	T	K41
C/2015 F4	2015 07 20.88455	20 00 57.04	+19 55 04.0	13.2	T	K41
C/2015 F4	2015 07 20.88505	20 00 57.00	+19 55 05.9	13.2	T	K41
C/2015 F4	2015 07 20.88554	20 00 56.98	+19 55 08.2	13.3	T	K41
C/2015 F4	2015 07 20.88605	20 00 56.87	+19 55 09.9	13.2	T	K41
C/2015 F4	2015 07 20.88814	20 00 56.62	+19 55 21.4	12.8	N	J31
C/2015 F4	2015 07 20.91727	20 00 52.71	+19 56 59.8	13.7	N	958
C/2015 F4	2015 07 20.92851	20 00 51.17	+19 57 40.3	13.7	N	958
C/2015 F4	2015 07 20.93042	20 00 50.88	+19 57 46.2	14.0	N	K 160
C/2015 F4	2015 07 20.93384	20 00 50.41	+19 57 58.6	14.0	N	K 160
C/2015 F4	2015 07 20.93727	20 00 49.96	+19 58 10.4	13.9	N	K 160
C/2015 F4	2015 07 20.94014	20 00 49.52	+19 58 19.2	13.7	N	958
C/2015 F4	2015 07 20.97316	20 00 45.21	+20 00 13.6	13.4	N	A77
C/2015 F4	2015 07 20.97457	20 00 45.03	+20 00 18.9	13.3	N	A77
C/2015 F4	2015 07 20.97596	20 00 44.82	+20 00 23.2	13.2	N	A77
C/2015 F4	2015 07 20.97733	20 00 44.64	+20 00 28.1	13.3	N	A77
C/2015 F4	2015 07 20.97869	20 00 44.46	+20 00 32.9	13.4	N	A77
C/2015 F4	2015 07 20.98009	20 00 44.30	+20 00 37.8	13.4	N	A77
C/2015 F4	2015 07 20.98193	20 00 44.04	+20 00 44.0	13.4	N	A77
C/2015 F4	2015 07 20.98285	20 00 43.92	+20 00 47.6	13.4	N	A77
C/2015 F4	2015 07 20.98557	20 00 43.39	+20 00 58.6	14.0	N	C47
C/2015 F4	2015 07 20.98779	20 00 43.10	+20 01 06.8	14.6	N	C47
C/2015 F4	2015 07 20.99037	20 00 42.76	+20 01 15.5	14.6	N	C47
C/2015 F4	2015 07 20.99295	20 00 42.40	+20 01 24.5	14.3	N	C47
C/2015 F4	2015 07 20.99553	20 00 42.05	+20 01 33.4	14.0	N	C47
C/2015 F4	2015 07 20.99812	20 00 41.71	+20 01 42.8	14.6	N	C47
C/2015 F4	2015 07 21.00107	20 00 41.31	+20 01 53.0	14.6	N	C47
C/2015 F4	2015 07 21.13792	20 00 23.57	+20 09 49.4	13.7	N	750
C/2015 F4	2015 07 21.15478	20 00 21.33	+20 10 49.7	14.3	N	750
C/2015 F4	2015 07 21.86429	19 58 47.88	+20 51 48.5	12.5	N	C36
C/2015 F4	2015 07 21.86517	19 58 47.78	+20 51 52.0	12.5	N	C36
C/2015 F4	2015 07 21.86606	19 58 47.67	+20 51 54.6	12.5	N	C36
C/2015 F4	2015 07 21.86694	19 58 47.55	+20 51 57.5	12.6	N	C36
C/2015 F4	2015 07 21.86914	19 58 47.24	+20 52 05.3	12.7	N	C36
C/2015 F4	2015 07 21.87002	19 58 47.14	+20 52 08.3	12.5	N	C36
C/2015 F4	2015 07 21.87090	19 58 46.97	+20 52 11.6	12.5	N	C36
C/2015 F4	2015 07 21.87108	19 58 47.20	+20 52 12.6	13.0	T	K41
C/2015 F4	2015 07 21.87181	19 58 47.07	+20 52 15.2	13.0	T	K41
C/2015 F4	2015 07 21.87255	19 58 46.95	+20 52 17.4	13.0	T	K41
C/2015 F4	2015 07 21.87266	19 58 46.73	+20 52 17.0	12.3	N	C36
C/2015 F4	2015 07 21.87328	19 58 46.87	+20 52 18.8	13.0	T	K41
C/2015 F4	2015 07 21.87354	19 58 46.64	+20 52 20.8	12.5	N	C36
C/2015 F4	2015 07 21.87400	19 58 46.81	+20 52 22.2	12.9	T	K41
C/2015 F4	2015 07 21.87443	19 58 46.54	+20 52 23.5	12.6	N	C36
C/2015 F4	2015 07 21.87473	19 58 46.69	+20 52 25.6	13.1	T	K41
C/2015 F4	2015 07 21.87531	19 58 46.41	+20 52 26.3	12.6	N	C36
C/2015 F4	2015 07 21.87546	19 58 46.60	+20 52 28.1	13.1	T	K41
C/2015 F4	2015 07 21.87619	19 58 46.30	+20 52 29.4	12.7	N	C36
C/2015 F4	2015 07 21.87619	19 58 46.53	+20 52 30.1	13.2	T	K41
C/2015 F4	2015 07 21.87692	19 58 46.45	+20 52 32.9	13.2	T	K41
C/2015 F4	2015 07 21.87765	19 58 46.30	+20 52 35.4	13.1	T	K41
C/2015 F4	2015 07 21.87838	19 58 46.22	+20 52 37.7	13.1	T	K41
C/2015 F4	2015 07 21.87912	19 58 46.10	+20 52 40.4	13.1	T	K41
C/2015 F4	2015 07 21.87985	19 58 46.00	+20 52 43.1	13.2	T	K41
C/2015 F4	2015 07 21.88058	19 58 45.93	+20 52 45.3	13.2	T	K41
C/2015 F4	2015 07 21.88131	19 58 45.80	+20 52 48.2	13.2	T	K41
C/2015 F4	2015 07 21.88278	19 58 45.60	+20 52 53.1	14.0	N	B75
C/2015 F4	2015 07 21.88351	19 58 45.50	+20 52 55.0	14.1	N	B75
C/2015 F4	2015 07 21.88424	19 58 45.41	+20 52 58.0	14.0	N	B75
C/2015 F4	2015 07 21.88497	19 58 45.31	+20 53 00.5	14.0	N	B75
C/2015 F4	2015 07 21.88571	19 58 45.19	+20 53 03.4	14.2	N	B75
C/2015 F4	2015 07 21.88893	19 58 44.71	+20 53 13.9	14.8	N	C47
C/2015 F4	2015 07 21.89188	19 58 44.30	+20 53 23.8	14.8	N	C47
C/2015 F4	2015 07 21.89521	19 58 43.88	+20 53 35.7	14.8	N	C47
C/2015 F4	2015 07 21.89853	19 58 43.44	+20 53 47.4	14.7	N	C47
C/2015 F4	2015 07 21.90185	19 58 42.99	+20 53 58.4	15.0	N	C47
C/2015 F4	2015 07 21.90517	19 58 42.52	+20 54 10.2	14.8	N	C47
C/2015 F4	2015 07 21.90527	19 58 42.38	+20 54 07.9	14.1	T	101
C/2015 F4	2015 07 21.91336	19 58 41.26	+20 54 37.1	14.1	T	101
C/2015 F4	2015 07 21.91449	19 58 41.36	+20 54 41.3	12.8	N	C10
C/2015 F4	2015 07 21.91741	19 58 40.70	+20 54 51.2	14.1	T	101
C/2015 F4	2015 07 21.92147	19 58 40.15	+20 55 05.2	11.2	T	101
C/2015 F4	2015 07 21.92795	19 58 39.57	+20 55 28.1	12.7	N	C10
C/2015 F4	2015 07 21.94199	19 58 37.64	+20 56 16.0	12.8	N	C10
C/2015 F4	2015 07 22.51168	19 57 22.47	+21 28 57.5	12.9	N	30D90
C/2015 F4	2015 07 22.51388	19 57 22.19	+21 29 05.0	12.9	N	30D90
C/2015 F4	2015 07 22.51610	19 57 21.89	+21 29 12.5	12.9	N	30D90
C/2015 F4	2015 07 22.94027	19 56 25.28	+21 52 53.8	13.5	N	461
C/2015 F4	2015 07 22.94096	19 56 25.18	+21 52 56.1	13.2	N	461
C/2015 F4	2015 07 22.94166	19 56 25.09	+21 52 58.6	13.7	N	461
C/2015 F4	2015 07 22.94235	19 56 24.99	+21 53 00.8	13.3	N	461
C/2015 F4	2015 07 22.94303	19 56 24.90	+21 53 03.0	13.5	N	461
C/2015 F4	2015 07 22.94334	19 56 25.13	+21 53 05.2	12.9	N	I72
C/2015 F4	2015 07 22.94373	19 56 24.80	+21 53 05.4	13.3	N	461
C/2015 F4	2015 07 22.94441	19 56 24.71	+21 53 07.7	13.2	N	461
C/2015 F4	2015 07 22.94510	19 56 24.62	+21 53 10.1	13.2	N	461
C/2015 F4	2015 07 22.94580	19 56 24.52	+21 53 12.4	13.4	N	461
C/2015 F4	2015 07 22.94648	19 56 24.43	+21 53 14.8	13.2	N	461
C/2015 F4	2015 07 22.94718	19 56 24.33	+21 53 17.0	13.4	N	461
C/2015 F4	2015 07 22.94786	19 56 24.24	+21 53 19.6	13.7	N	461
C/2015 F4	2015 07 22.94920	19 56 24.33	+21 53 24.8	12.9	N	I72
C/2015 F4	2015 07 22.96676	19 56 21.94	+21 54 24.2	12.9	N	I72
C/2015 F4	2015 07 22.98022	19 56 20.09	+21 55 08.8	14.0	N	J01
C/2015 F4	2015 07 22.99972	19 56 17.43	+21 56 14.4	14.1	N	J01
C/2015 F4	2015 07 23.00272	19 56 17.01	+21 56 24.6	14.0	N	J01
C/2015 F4	2015 07 23.09404	19 56 05.01	+22 01 42.0	12.7	N	I66
C/2015 F4	2015 07 23.09624	19 56 04.71	+22 01 49.5	12.7	N	I66
C/2015 F4	2015 07 23.92002	19 54 15.26	+22 47 18.4	13.1	N	213
C/2015 F4	2015 07 23.92417	19 54 14.60	+22 47 30.9	13.8	N	958
C/2015 F4	2015 07 23.93381	19 54 13.32	+22 48 03.1	13.2	N	K22
C/2015 F4	2015 07 23.93742	19 54 12.83	+22 48 14.8	13.8	N	958

C/2015 F4	2015 07 23.94569	19 54 11.75	+22 48 43.3	13.1	N	213
C/2015 F4	2015 07 23.94998	19 54 11.11	+22 48 56.7	13.2	N	K22
C/2015 F4	2015 07 23.95113	19 54 10.95	+22 49 00.3	13.8	N	958
C/2015 F4	2015 07 23.95793	19 54 10.06	+22 49 23.3	13.1	N	213
C/2015 F4	2015 07 23.96655	19 54 08.84	+22 49 51.0	13.2	N	K22
C/2015 F4	2015 07 24.37007	19 53 14.84	+23 11 54.9	12.7	N	17U69
C/2015 F4	2015 07 24.38764	19 53 12.43	+23 12 51.9	12.7	N	17U69
C/2015 F4	2015 07 24.39785	19 53 11.04	+23 13 25.1	12.7	N	17U69
C/2015 F4	2015 07 24.84280	19 52 12.20	+23 37 25.5	13.0	T	583
C/2015 F4	2015 07 24.84350	19 52 12.10	+23 37 27.4	13.0	T	583
C/2015 F4	2015 07 24.84419	19 52 12.00	+23 37 29.8	13.1	T	583
C/2015 F4	2015 07 24.84488	19 52 11.91	+23 37 31.6	12.9	T	583
C/2015 F4	2015 07 24.84558	19 52 11.81	+23 37 34.1	13.0	T	583
C/2015 F4	2015 07 24.84627	19 52 11.72	+23 37 36.5	13.1	T	583
C/2015 F4	2015 07 24.84697	19 52 11.63	+23 37 39.0	13.1	T	583
C/2015 F4	2015 07 24.84766	19 52 11.54	+23 37 41.1	13.1	T	583
C/2015 F4	2015 07 24.84826	19 52 11.45	+23 37 43.1	13.2	T	583
C/2015 F4	2015 07 24.84896	19 52 11.36	+23 37 45.7	13.3	T	583
C/2015 F4	2015 07 24.84965	19 52 11.26	+23 37 48.0	13.2	T	583
C/2015 F4	2015 07 24.85035	19 52 11.17	+23 37 49.9	13.2	T	583
C/2015 F4	2015 07 24.85104	19 52 11.08	+23 37 52.2	13.1	T	583
C/2015 F4	2015 07 24.85174	19 52 10.98	+23 37 54.4	13.3	T	583
C/2015 F4	2015 07 25.02400	19 51 47.75	+23 47 10.8	12.8	N	Z73
C/2015 F4	2015 07 25.03578	19 51 46.11	+23 47 47.4	12.8	N	Z73
C/2015 F4	2015 07 25.04900	19 51 44.32	+23 48 31.2	12.8	N	Z73
C/2015 F4	2015 07 25.13687	19 51 33.10	+23 53 09.5	13.9	N	750
C/2015 F4	2015 07 25.14951	19 51 31.36	+23 53 50.3	14.0	N	750
C/2015 F4	2015 07 25.57257	19 50 34.76	+24 16 21.3	11.4	T	372
C/2015 F4	2015 07 25.58021	19 50 33.72	+24 16 45.3			372
C/2015 F4	2015 07 25.59392	19 50 31.84	+24 17 28.9			372
C/2015 F4	2015 07 25.70966	19 50 16.60	+24 23 34.1	14.7	N	N55
C/2015 F4	2015 07 25.71184	19 50 16.19	+24 23 42.1	14.8	N	N55
C/2015 F4	2015 07 25.71256	19 50 15.51	+24 23 42.5			K 367
C/2015 F4	2015 07 25.71377	19 50 15.34	+24 23 46.2			K 367
C/2015 F4	2015 07 25.71403	19 50 15.93	+24 23 48.0	14.6	N	N55
C/2015 F4	2015 07 25.71539	19 50 15.12	+24 23 51.4	11.2	T	K 367
C/2015 F4	2015 07 25.91169	19 49 49.50	+24 34 08.2	14.1	N	B96
C/2015 F4	2015 07 25.91674	19 49 48.81	+24 34 24.1	14.1	N	B96
C/2015 F4	2015 07 25.92338	19 49 47.91	+24 34 45.0	14.0	N	B96
C/2015 F4	2015 07 25.96231	19 49 42.61	+24 36 46.8	13.6	N	C23
C/2015 F4	2015 07 25.96680	19 49 42.00	+24 37 00.5	13.2	N	C23
C/2015 F4	2015 07 25.97205	19 49 41.34	+24 37 16.5	13.0	N	C23
C/2015 F4	2015 07 25.97325	19 49 41.20	+24 37 21.9	13.1	N	J38
C/2015 F4	2015 07 25.97445	19 49 41.03	+24 37 26.4	13.1	N	J38
C/2015 F4	2015 07 25.97566	19 49 40.87	+24 37 30.3	13.2	N	J38
C/2015 F4	2015 07 25.98243	19 49 39.91	+24 37 51.7	13.0	N	J36
C/2015 F4	2015 07 25.98558	19 49 39.48	+24 38 01.6	13.0	N	J36
C/2015 F4	2015 07 25.99275	19 49 38.47	+24 38 24.2	13.1	N	J36
C/2015 F4	2015 07 26.01044	19 49 36.10	+24 39 20.0	13.0	N	Z73
C/2015 F4	2015 07 26.01804	19 49 35.04	+24 39 43.7	13.0	N	Z73
C/2015 F4	2015 07 26.02604	19 49 33.95	+24 40 08.7	13.0	N	Z73
C/2015 F4	2015 07 26.03366	19 49 32.90	+24 40 32.6	12.9	N	Z73
C/2015 F4	2015 07 26.62297	19 48 14.27	+25 11 03.6	11.4	T	349
C/2015 F4	2015 07 26.62424	19 48 14.11	+25 11 07.5			349
C/2015 F4	2015 07 26.62549	19 48 13.93	+25 11 11.5			349
C/2015 F4	2015 07 26.64354	19 48 11.47	+25 12 07.0			D81
C/2015 F4	2015 07 26.64418	19 48 11.38	+25 12 08.8			D81
C/2015 F4	2015 07 26.64477	19 48 11.28	+25 12 10.5			D81
C/2015 F4	2015 07 26.64536	19 48 11.20	+25 12 12.3	11.3	T	D81
C/2015 F4	2015 07 26.90078	19 47 37.69	+25 25 16.8	13.0	N	I57
C/2015 F4	2015 07 26.90552	19 47 37.03	+25 25 31.3	13.0	N	I57
C/2015 F4	2015 07 26.90621	19 47 36.94	+25 25 33.3	13.0	N	I57
C/2015 F4	2015 07 27.51648	19 46 15.54	+25 56 37.7	13.3	N	30D90
C/2015 F4	2015 07 27.51867	19 46 15.29	+25 56 44.9	13.3	N	30D90
C/2015 F4	2015 07 27.52090	19 46 14.96	+25 56 51.5	13.3	N	30D90
C/2015 F4	2015 07 27.68507	19 45 52.48	+26 04 53.3			372
C/2015 F4	2015 07 27.69375	19 45 51.29	+26 05 19.5	11.2	T	372
C/2015 F4	2015 07 27.89242	19 45 25.52	+26 15 11.2	13.4	N	K14
C/2015 F4	2015 07 27.90317	19 45 24.09	+26 15 43.9	13.4	N	K14
C/2015 F4	2015 07 27.91166	19 45 22.85	+26 16 08.9	13.4	N	K14
C/2015 F4	2015 07 28.95869	19 43 03.77	+27 07 20.4	13.1	N	J36
C/2015 F4	2015 07 28.96376	19 43 03.05	+27 07 35.0	13.1	N	J36
C/2015 F4	2015 07 28.96772	19 43 02.53	+27 07 46.6	13.1	N	J36
C/2015 F4	2015 07 28.97069	19 43 01.96	+27 07 54.9	14.4	N	K 160
C/2015 F4	2015 07 28.97349	19 43 01.58	+27 08 02.9	14.4	N	K 160
C/2015 F4	2015 07 28.97643	19 43 01.19	+27 08 11.4	14.3	N	K 160
C/2015 F4	2015 07 29.92242	19 40 56.52	+27 53 06.2	13.1	N	I72
C/2015 F4	2015 07 29.92395	19 40 56.34	+27 53 09.9	13.1	N	I72
C/2015 F4	2015 07 29.92547	19 40 56.14	+27 53 14.4	13.1	N	I72
C/2015 F4	2015 07 30.04758	19 40 39.48	+27 58 54.0	13.2	N	B82
C/2015 F4	2015 07 30.04838	19 40 39.37	+27 58 56.5	13.1	N	B82
C/2015 F4	2015 07 30.04918	19 40 39.28	+27 58 58.5	13.1	N	B82
C/2015 F4	2015 07 30.04997	19 40 39.18	+27 59 00.6	13.1	N	B82
C/2015 F4	2015 07 31.04327	19 38 28.83	+28 44 35.5	13.7	N	C23
C/2015 F4	2015 07 31.04777	19 38 28.21	+28 44 48.1	13.5	N	C23
C/2015 F4	2015 07 31.05301	19 38 27.52	+28 45 02.2	13.4	N	C23
C/2015 F4	2015 07 31.92505	19 36 34.36	+29 23 55.3	14.4	N	J01
C/2015 F4	2015 07 31.92655	19 36 34.13	+29 23 59.8	14.4	N	J01
C/2015 F4	2015 07 31.93256	19 36 33.37	+29 24 15.3	14.4	N	J01
C/2015 F4	2015 07 31.94156	19 36 32.12	+29 24 39.4	14.4	N	J01
C/2015 F4	2015 08 01.86839	19 34 32.35	+30 04 41.5	13.1	N	C10
C/2015 F4	2015 08 01.88807	19 34 29.86	+30 05 31.7	13.1	N	C10
C/2015 F4	2015 08 01.89267	19 34 29.24	+30 05 43.6	13.1	N	C10
C/2015 F4	2015 08 01.91144	19 34 26.76	+30 06 31.3	13.1	N	C10
C/2015 F4	2015 08 01.93314	19 34 23.89	+30 07 26.7	13.5	N	C23
C/2015 F4	2015 08 01.93343	19 34 23.80	+30 07 30.2	14.6	N	KA77
C/2015 F4	2015 08 01.93539	19 34 23.59	+30 07 32.4	13.6	N	C23
C/2015 F4	2015 08 01.93674	19 34 23.34	+30 07 38.9	14.6	N	KA77
C/2015 F4	2015 08 01.93839	19 34 23.19	+30 07 41.1	13.3	N	C23
C/2015 F4	2015 08 01.95752	19 34 20.75	+30 08 31.5	13.4	N	I72
C/2015 F4	2015 08 01.96042	19 34 20.38	+30 08 38.4	13.4	N	I72
C/2015 F4	2015 08 01.96332	19 34 19.99	+30 08 46.0	13.4	N	I72
C/2015 F4	2015 08 02.86375	19 32 25.07	+30 46 23.0	13.5	N	K14
C/2015 F4	2015 08 02.87213	19 32 23.97	+30 46 43.5	13.6	N	K14
C/2015 F4	2015 08 02.90619	19 32 19.48	+30 48 07.3	13.3	N	C86
C/2015 F4	2015 08 02.90747	19 32 19.34	+30 48 10.7	13.3	N	C86

C/2015 F4	2015 08 02.90831	19 32 19.24	+30 48 12.7	13.3	N	C86
C/2015 F4	2015 08 03.01069	19 32 05.77	+30 52 22.6	13.3	N	B82
C/2015 F4	2015 08 03.01388	19 32 05.37	+30 52 30.6	13.3	N	B82
C/2015 F4	2015 08 03.01707	19 32 04.97	+30 52 38.5	13.3	N	B82
C/2015 F4	2015 08 03.22250	19 31 38.79	+31 01 12.0	13.4	N	W96
C/2015 F4	2015 08 03.26935	19 31 32.66	+31 03 06.2	13.3	N	W96
C/2015 F4	2015 08 03.93058	19 30 09.82	+31 29 26.6	13.8	N	K B51
C/2015 F4	2015 08 03.93276	19 30 09.54	+31 29 31.9	13.8	N	K B51
C/2015 F4	2015 08 03.93583	19 30 09.15	+31 29 39.7	13.8	N	K B51
C/2015 F4	2015 08 03.93809	19 30 08.85	+31 29 45.1	13.9	N	K B51
C/2015 F4	2015 08 03.93895	19 30 08.72	+31 29 46.9	13.8	N	K B51
C/2015 F4	2015 08 03.95263	19 30 06.90	+31 30 18.5	14.7	N	C47
C/2015 F4	2015 08 03.95595	19 30 06.47	+31 30 26.5	14.7	N	C47
C/2015 F4	2015 08 03.95964	19 30 05.98	+31 30 35.1	15.0	N	C47
C/2015 F4	2015 08 03.96333	19 30 05.52	+31 30 43.7	14.0	N	C47
C/2015 F4	2015 08 03.96702	19 30 05.04	+31 30 52.5	15.0	N	C47
C/2015 F4	2015 08 03.97071	19 30 04.57	+31 31 01.2	14.9	N	C47
C/2015 F4	2015 08 03.97476	19 30 04.05	+31 31 10.8	14.1	N	C47
C/2015 F4	2015 08 03.97882	19 30 03.52	+31 31 20.5	14.4	N	C47
C/2015 F4	2015 08 04.00281	19 30 00.28	+31 32 16.4	13.3	N	C36
C/2015 F4	2015 08 04.00313	19 30 00.33	+31 32 15.7	13.1	N	C36
C/2015 F4	2015 08 04.00349	19 30 00.15	+31 32 16.5	13.1	N	C36
C/2015 F4	2015 08 04.01086	19 29 59.46	+31 32 35.2	12.6	N	C36
C/2015 F4	2015 08 04.05008	19 29 54.94	+31 34 19.8	14.1	T	Y00
C/2015 F4	2015 08 04.05170	19 29 54.71	+31 34 24.0	14.0	T	Y00
C/2015 F4	2015 08 04.05333	19 29 54.53	+31 34 26.9	14.0	T	Y00
C/2015 F4	2015 08 04.06693	19 29 52.27	+31 34 47.5	13.3	N	B82
C/2015 F4	2015 08 04.06773	19 29 52.16	+31 34 49.9	13.3	N	B82
C/2015 F4	2015 08 04.06932	19 29 51.99	+31 34 53.4	13.3	N	B82
C/2015 F4	2015 08 04.86942	19 28 12.90	+32 06 00.7	13.6	N	B49
C/2015 F4	2015 08 04.87469	19 28 12.23	+32 06 12.8	13.8	N	B49
C/2015 F4	2015 08 04.88271	19 28 11.16	+32 06 31.8	13.7	N	B49
C/2015 F4	2015 08 04.88740	19 28 10.68	+32 06 43.1	13.2	N	I72
C/2015 F4	2015 08 04.88948	19 28 10.42	+32 06 47.7	13.2	N	I72
C/2015 F4	2015 08 04.89309	19 28 09.97	+32 06 56.1	13.2	N	I72
C/2015 F4	2015 08 04.89663	19 28 09.38	+32 07 03.4	14.0	N	K B51
C/2015 F4	2015 08 04.89903	19 28 09.08	+32 07 09.3	13.9	N	K B51
C/2015 F4	2015 08 04.90126	19 28 08.87	+32 07 14.2	13.3	N	939
C/2015 F4	2015 08 04.90163	19 28 08.74	+32 07 14.7	13.9	N	K B51
C/2015 F4	2015 08 04.90356	19 28 08.57	+32 07 19.5	13.3	N	939
C/2015 F4	2015 08 04.90424	19 28 08.40	+32 07 21.4	13.9	N	K B51
C/2015 F4	2015 08 04.90588	19 28 08.28	+32 07 24.9	13.3	N	939
C/2015 F4	2015 08 04.90641	19 28 08.12	+32 07 26.3	13.9	N	K B51
C/2015 F4	2015 08 04.90749	19 28 07.98	+32 07 28.7	13.9	N	K B51
C/2015 F4	2015 08 04.91466	19 28 07.18	+32 07 43.2	13.5	N	C23
C/2015 F4	2015 08 04.91916	19 28 06.52	+32 07 53.9	13.8	N	C23
C/2015 F4	2015 08 04.92290	19 28 06.04	+32 08 02.5	13.8	N	C23
C/2015 F4	2015 08 04.92641	19 28 05.58	+32 08 12.2	13.3	N	C86
C/2015 F4	2015 08 04.92718	19 28 05.48	+32 08 14.0	13.3	N	C86
C/2015 F4	2015 08 04.92795	19 28 05.41	+32 08 15.5	13.3	N	C86
C/2015 F4	2015 08 04.95499	19 28 01.91	+32 09 18.6	14.6	N	A77
C/2015 F4	2015 08 04.97200	19 27 59.72	+32 09 57.4	14.6	N	A77
C/2015 F4	2015 08 04.98167	19 27 58.48	+32 10 19.7	14.6	N	A77
C/2015 F4	2015 08 04.99016	19 27 57.41	+32 10 38.7	14.6	N	A77
C/2015 F4	2015 08 05.84553	19 26 12.71	+32 42 42.4	14.9	N	A71
C/2015 F4	2015 08 05.84733	19 26 12.50	+32 42 45.7	14.9	N	A71
C/2015 F4	2015 08 05.84911	19 26 12.24	+32 42 50.7	14.8	N	A71
C/2015 F4	2015 08 05.86432	19 26 10.21	+32 43 22.9	13.0	N	C36
C/2015 F4	2015 08 05.86567	19 26 09.96	+32 43 26.2	12.9	N	C36
C/2015 F4	2015 08 05.86701	19 26 09.85	+32 43 29.7	12.9	N	C36
C/2015 F4	2015 08 05.86971	19 26 09.48	+32 43 35.7	12.9	N	C36
C/2015 F4	2015 08 05.87241	19 26 09.14	+32 43 41.4	13.0	N	C36
C/2015 F4	2015 08 05.87510	19 26 08.80	+32 43 47.7	13.0	N	C36
C/2015 F4	2015 08 05.90747	19 26 04.97	+32 44 59.8	13.3	N	K 203
C/2015 F4	2015 08 05.92568	19 26 02.65	+32 45 39.7	15.3	N	C47
C/2015 F4	2015 08 05.92662	19 26 02.73	+32 45 43.1	14.2	N	J01
C/2015 F4	2015 08 05.92900	19 26 02.23	+32 45 47.0	15.2	N	C47
C/2015 F4	2015 08 05.93147	19 26 02.03	+32 45 52.1	14.1	N	C23
C/2015 F4	2015 08 05.93164	19 26 01.94	+32 45 53.2	13.3	N	K 203
C/2015 F4	2015 08 05.93232	19 26 01.82	+32 45 54.3	15.2	N	C47
C/2015 F4	2015 08 05.93562	19 26 01.59	+32 46 03.3	14.1	N	J01
C/2015 F4	2015 08 05.93564	19 26 01.40	+32 46 01.9	15.0	N	C47
C/2015 F4	2015 08 05.93671	19 26 01.37	+32 46 03.6	13.7	N	C23
C/2015 F4	2015 08 05.93896	19 26 00.98	+32 46 09.2	15.0	N	C47
C/2015 F4	2015 08 05.94196	19 26 00.72	+32 46 15.0	13.6	N	C23
C/2015 F4	2015 08 05.94228	19 26 00.56	+32 46 16.6	15.1	N	C47
C/2015 F4	2015 08 05.94312	19 26 00.69	+32 46 19.4	14.3	N	J01
C/2015 F4	2015 08 05.94597	19 26 00.11	+32 46 24.7	15.1	N	C47
C/2015 F4	2015 08 05.94930	19 25 59.68	+32 46 31.6	15.2	N	C47
C/2015 F4	2015 08 06.01279	19 25 51.82	+32 48 50.8	13.4	N	B82
C/2015 F4	2015 08 06.01756	19 25 51.20	+32 49 01.5	13.4	N	B82
C/2015 F4	2015 08 06.02075	19 25 50.80	+32 49 08.3	13.4	N	B82
C/2015 F4	2015 08 06.87380	19 24 08.17	+33 19 56.4	14.5	N	B96
C/2015 F4	2015 08 06.87546	19 24 07.97	+33 19 59.8	14.5	N	B96
C/2015 F4	2015 08 06.87713	19 24 07.76	+33 20 03.4	14.5	N	B96
C/2015 F4	2015 08 06.87880	19 24 07.57	+33 20 06.9	14.5	N	B96
C/2015 F4	2015 08 06.88045	19 24 07.36	+33 20 10.4	14.4	N	B96
C/2015 F4	2015 08 06.88211	19 24 07.15	+33 20 14.0	14.5	N	B96
C/2015 F4	2015 08 06.88362	19 24 06.87	+33 20 17.4	14.4	N	A71
C/2015 F4	2015 08 06.88377	19 24 06.96	+33 20 17.3	14.0	N	B96
C/2015 F4	2015 08 06.88437	19 24 06.78	+33 20 19.0	14.2	N	A71
C/2015 F4	2015 08 06.88512	19 24 06.69	+33 20 20.6	14.2	N	A71
C/2015 F4	2015 08 06.88564	19 24 06.78	+33 20 22.6	13.4	N	C86
C/2015 F4	2015 08 06.88586	19 24 06.60	+33 20 22.2	14.3	N	A71
C/2015 F4	2015 08 06.88771	19 24 06.55	+33 20 26.7	13.3	N	C86
C/2015 F4	2015 08 06.88838	19 24 06.45	+33 20 28.5	13.4	N	C86
C/2015 F4	2015 08 06.95344	19 23 58.37	+33 22 42.3	14.8	N	238
C/2015 F4	2015 08 06.95462	19 23 58.16	+33 22 46.6	14.6	N	238
C/2015 F4	2015 08 06.95550	19 23 58.03	+33 22 51.0	14.6	N	K 160
C/2015 F4	2015 08 06.95638	19 23 58.00	+33 22 48.8	14.8	N	238
C/2015 F4	2015 08 06.95814	19 23 57.73	+33 22 54.2	14.7	N	238
C/2015 F4	2015 08 06.95932	19 23 57.67	+33 22 55.1	14.7	N	238
C/2015 F4	2015 08 06.96100	19 23 57.35	+33 23 02.6	14.7	N	K 160
C/2015 F4	2015 08 06.96647	19 23 56.69	+33 23 13.9	14.7	N	K 160
C/2015 F4	2015 08 07.60910	19 22 40.14	+33 45 41.3			D81
C/2015 F4	2015 08 07.60970	19 22 40.07	+33 45 42.7			D81

C/2015 F4	2015 08 07.61029	19 22 40.00	+33 45 43.9			D81
C/2015 F4	2015 08 07.61088	19 22 39.93	+33 45 44.9	11.7	T	D81
C/2015 F4	2015 08 07.83861	19 22 13.44	+33 53 33.2	14.9	N	A71
C/2015 F4	2015 08 07.83935	19 22 13.38	+33 53 34.5	14.9	N	A71
C/2015 F4	2015 08 07.84010	19 22 13.28	+33 53 36.4	14.9	N	A71
C/2015 F4	2015 08 07.84084	19 22 13.19	+33 53 37.6	14.9	N	A71
C/2015 F4	2015 08 07.87400	19 22 09.15	+33 54 45.8	15.1	N	C47
C/2015 F4	2015 08 07.87696	19 22 08.81	+33 54 52.0	15.0	N	C47
C/2015 F4	2015 08 07.88028	19 22 08.39	+33 54 58.7	15.0	N	C47
C/2015 F4	2015 08 07.88360	19 22 07.98	+33 55 05.5	15.0	N	C47
C/2015 F4	2015 08 07.88692	19 22 07.60	+33 55 12.2	15.1	N	C47
C/2015 F4	2015 08 07.89024	19 22 07.19	+33 55 19.1	15.0	N	C47
C/2015 F4	2015 08 07.96972	19 21 57.59	+33 58 01.9	14.7	N	K 160
C/2015 F4	2015 08 07.97250	19 21 57.24	+33 58 07.5	14.7	N	K 160
C/2015 F4	2015 08 07.97528	19 21 56.92	+33 58 13.0	14.7	N	K 160
C/2015 F4	2015 08 08.28944	19 21 20.12	+34 08 52.2	13.7	N	WH06
C/2015 F4	2015 08 08.29109	19 21 19.88	+34 08 55.6	14.0	N	WH06
C/2015 F4	2015 08 08.29215	19 21 19.77	+34 08 57.6	14.1	N	WH06
C/2015 F4	2015 08 08.29316	19 21 19.66	+34 08 59.0	14.1	N	WH06
C/2015 F4	2015 08 08.29420	19 21 19.53	+34 09 01.3	14.2	N	WH06
C/2015 F4	2015 08 08.93017	19 20 06.00	+34 30 04.4	14.9	N	B96
C/2015 F4	2015 08 08.93183	19 20 05.82	+34 30 07.4	14.8	N	B96
C/2015 F4	2015 08 08.93348	19 20 05.60	+34 30 10.9	14.7	N	B96
C/2015 F4	2015 08 08.93515	19 20 05.42	+34 30 14.3	14.6	N	B96
C/2015 F4	2015 08 08.93681	19 20 05.24	+34 30 17.2	14.9	N	B96
C/2015 F4	2015 08 08.99922	19 19 57.88	+34 32 20.1	13.4	N	I72
C/2015 F4	2015 08 09.00212	19 19 57.51	+34 32 26.2	13.5	N	I72
C/2015 F4	2015 08 09.00506	19 19 57.15	+34 32 32.1	13.5	N	I72
C/2015 F4	2015 08 09.91123	19 18 14.31	+35 01 33.7	14.2	N	J01
C/2015 F4	2015 08 09.92664	19 18 12.50	+35 02 03.0	14.2	N	J01
C/2015 F4	2015 08 09.93544	19 18 11.46	+35 02 19.4	14.3	N	J01
C/2015 F4	2015 08 10.85240	19 16 29.36	+35 30 34.3	15.1	N	C47
C/2015 F4	2015 08 10.85462	19 16 29.06	+35 30 37.9	15.1	N	C47
C/2015 F4	2015 08 10.85757	19 16 28.75	+35 30 43.4	15.4	N	C47
C/2015 F4	2015 08 10.86052	19 16 28.35	+35 30 48.8	15.5	N	C47
C/2015 F4	2015 08 10.86347	19 16 28.05	+35 30 54.2	15.5	N	C47
C/2015 F4	2015 08 10.88832	19 16 25.25	+35 31 39.2	14.7	N	A71
C/2015 F4	2015 08 10.88907	19 16 25.13	+35 31 40.8	14.7	N	A71
C/2015 F4	2015 08 10.89388	19 16 24.60	+35 31 49.2	13.6	N	A71
C/2015 F4	2015 08 10.89462	19 16 24.52	+35 31 50.6	13.9	N	A71
C/2015 F4	2015 08 11.12545	19 15 58.66	+35 38 44.1	13.4	N	J52
C/2015 F4	2015 08 11.12978	19 15 58.17	+35 38 51.7	13.4	N	J52
C/2015 F4	2015 08 11.13303	19 15 57.80	+35 38 58.0	13.5	N	J52
C/2015 F4	2015 08 11.88904	19 14 36.46	+36 01 15.4	15.0	T	A77
C/2015 F4	2015 08 11.89471	19 14 35.84	+36 01 25.3	14.9	T	A77
C/2015 F4	2015 08 11.91473	19 14 33.57	+36 01 59.8	14.9	N	K 160
C/2015 F4	2015 08 11.91823	19 14 33.18	+36 02 05.8	14.9	N	K 160
C/2015 F4	2015 08 11.92128	19 14 32.97	+36 02 11.8	13.9	N	K14
C/2015 F4	2015 08 11.92174	19 14 32.82	+36 02 11.8	14.9	N	K 160
C/2015 F4	2015 08 11.93027	19 14 31.93	+36 02 26.7	13.7	N	K14
C/2015 F4	2015 08 11.93927	19 14 30.92	+36 02 42.5	13.8	N	K14
C/2015 F4	2015 08 12.14086	19 14 10.01	+36 08 29.0	14.3	N	G49
C/2015 F4	2015 08 12.14778	19 14 08.96	+36 08 40.4	15.0	N	G49
C/2015 F4	2015 08 12.16043	19 14 07.57	+36 09 04.3	14.6	N	G49
C/2015 F4	2015 08 12.16837	19 14 06.62	+36 09 15.5	14.5	N	G49
C/2015 F4	2015 08 12.27633	19 13 54.67	+36 12 22.8	13.7	N	H45
C/2015 F4	2015 08 12.27806	19 13 54.50	+36 12 25.7	13.5	N	H45
C/2015 F4	2015 08 12.27909	19 13 54.36	+36 12 27.7	13.7	N	H45
C/2015 F4	2015 08 12.28025	19 13 54.25	+36 12 29.6	13.6	N	H45
C/2015 F4	2015 08 12.28561	19 13 53.62	+36 12 38.8	13.7	N	H45
C/2015 F4	2015 08 12.28679	19 13 53.52	+36 12 40.3	13.7	N	H45
C/2015 F4	2015 08 12.28807	19 13 53.32	+36 12 42.5	13.7	N	H45
C/2015 F4	2015 08 12.28920	19 13 53.23	+36 12 44.7	13.7	N	H45
C/2015 F4	2015 08 12.87674	19 12 51.95	+36 29 13.6	14.0	N	A77
C/2015 F4	2015 08 12.87931	19 12 51.65	+36 29 17.9	14.0	N	A77
C/2015 F4	2015 08 12.88170	19 12 51.40	+36 29 21.9	14.0	N	A77
C/2015 F4	2015 08 12.88414	19 12 51.15	+36 29 25.9	14.0	N	A77
C/2015 F4	2015 08 12.88653	19 12 50.89	+36 29 29.6	14.0	N	A77
C/2015 F4	2015 08 12.88897	19 12 50.60	+36 29 33.9	14.0	N	A77
C/2015 F4	2015 08 12.89139	19 12 50.37	+36 29 37.8	14.0	N	A77
C/2015 F4	2015 08 12.89397	19 12 50.11	+36 29 42.1	14.0	N	A77
C/2015 F4	2015 08 12.91241	19 12 48.06	+36 30 13.0	13.9	N	215
C/2015 F4	2015 08 12.91469	19 12 47.81	+36 30 16.8	13.9	N	215
C/2015 F4	2015 08 12.91726	19 12 47.55	+36 30 22.1	13.9	N	215
C/2015 F4	2015 08 12.92006	19 12 47.01	+36 30 23.6	13.3	N	C36
C/2015 F4	2015 08 12.92041	19 12 46.94	+36 30 24.4	13.3	N	C36
C/2015 F4	2015 08 12.92087	19 12 46.97	+36 30 25.5	13.1	N	C36
C/2015 F4	2015 08 12.92119	19 12 46.94	+36 30 26.2	13.4	N	C36
C/2015 F4	2015 08 12.92152	19 12 46.90	+36 30 26.5	13.4	N	C36
C/2015 F4	2015 08 12.92185	19 12 46.80	+36 30 26.9	13.3	N	C36
C/2015 F4	2015 08 12.92227	19 12 46.83	+36 30 26.8	13.3	N	C36
C/2015 F4	2015 08 12.92298	19 12 46.73	+36 30 28.2	13.4	N	C36
C/2015 F4	2015 08 12.92350	19 12 46.68	+36 30 29.9	13.4	N	C36
C/2015 F4	2015 08 12.93374	19 12 45.76	+36 30 48.2	14.4	N	C23
C/2015 F4	2015 08 12.94123	19 12 44.99	+36 31 00.3	14.4	N	C23
C/2015 F4	2015 08 12.94872	19 12 44.13	+36 31 12.8	14.4	N	C23
C/2015 F4	2015 08 13.12008	19 12 26.68	+36 35 58.3	14.3	N	V86
C/2015 F4	2015 08 13.15051	19 12 23.39	+36 36 48.6	14.4	N	V86
C/2015 F4	2015 08 13.18748	19 12 19.40	+36 37 49.1	13.8	N	V86
C/2015 F4	2015 08 13.81602	19 11 15.06	+36 54 45.5	13.4	N	083
C/2015 F4	2015 08 13.82306	19 11 14.37	+36 54 57.0	13.4	N	083
C/2015 F4	2015 08 13.83079	19 11 13.82	+36 55 08.6	13.3	N	083
C/2015 F4	2015 08 14.24736	19 10 31.14	+37 06 10.8	13.7	N	H45
C/2015 F4	2015 08 14.24841	19 10 31.03	+37 06 12.4	13.7	N	H45
C/2015 F4	2015 08 14.24965	19 10 30.91	+37 06 14.3	13.7	N	H45
C/2015 F4	2015 08 14.25260	19 10 30.60	+37 06 18.9	13.7	N	H45
C/2015 F4	2015 08 14.99604	19 09 17.12	+37 25 27.2	13.6	N	J22
C/2015 F4	2015 08 14.99731	19 09 16.94	+37 25 29.2	13.6	N	J22
C/2015 F4	2015 08 14.99794	19 09 16.88	+37 25 29.9	13.6	N	J22
C/2015 F4	2015 08 15.01877	19 09 14.60	+37 25 56.6	15.2	N	C47
C/2015 F4	2015 08 15.02136	19 09 14.34	+37 26 00.3	15.3	N	C47
C/2015 F4	2015 08 15.02394	19 09 14.08	+37 26 04.4	15.2	N	C47
C/2015 F4	2015 08 15.02652	19 09 13.81	+37 26 08.3	15.2	N	C47
C/2015 F4	2015 08 15.02947	19 09 13.53	+37 26 12.5	14.8	N	C47
C/2015 F4	2015 08 15.03243	19 09 13.25	+37 26 17.0	15.2	N	C47
C/2015 F4	2015 08 15.95843	19 07 44.35	+37 49 12.1	13.8	N	I81

C/2015 F4	2015 08 15.96553	19 07 43.66	+37 49 22.4	13.9	N	I81
C/2015 F4	2015 08 15.97123	19 07 43.07	+37 49 30.9	13.9	N	I81
C/2015 F4	2015 08 15.99117	19 07 41.07	+37 50 02.1	13.6	N	I57
C/2015 F4	2015 08 15.99617	19 07 40.56	+37 50 09.6	13.6	N	I57
C/2015 F4	2015 08 15.99786	19 07 40.41	+37 50 12.0	13.6	N	I57
C/2015 F4	2015 08 16.91141	19 06 15.65	+38 11 49.5	14.2	N	A77
C/2015 F4	2015 08 16.91390	19 06 15.42	+38 11 52.6	14.2	N	A77
C/2015 F4	2015 08 16.91731	19 06 15.05	+38 11 57.9	14.2	N	A77
C/2015 F4	2015 08 16.92062	19 06 14.77	+38 12 02.4	14.2	N	A77
C/2015 F4	2015 08 16.92306	19 06 14.50	+38 12 05.6	14.2	N	A77
C/2015 F4	2015 08 16.92468	19 06 14.39	+38 12 08.0	14.2	N	A77
C/2015 F4	2015 08 16.93130	19 06 13.76	+38 12 17.2	14.2	N	A77
C/2015 F4	2015 08 16.93458	19 06 13.43	+38 12 21.6	14.2	N	A77
C/2015 F4	2015 08 16.93784	19 06 13.12	+38 12 25.7	14.2	N	A77
C/2015 F4	2015 08 16.94027	19 06 12.86	+38 12 29.6	14.2	N	A77
C/2015 F4	2015 08 16.94251	19 06 12.72	+38 12 30.9	13.9	N	I81
C/2015 F4	2015 08 16.94280	19 06 12.65	+38 12 33.0	14.2	N	A77
C/2015 F4	2015 08 16.94610	19 06 12.33	+38 12 37.3	14.2	N	A77
C/2015 F4	2015 08 16.94896	19 06 12.12	+38 12 39.8	13.8	N	I81
C/2015 F4	2015 08 16.95756	19 06 11.31	+38 12 51.8	13.8	N	I81
C/2015 F4	2015 08 17.14715	19 05 54.19	+38 17 17.0	14.5	N	V86
C/2015 F4	2015 08 17.17885	19 05 51.21	+38 18 00.5	14.4	N	V86
C/2015 F4	2015 08 17.20650	19 05 48.60	+38 18 38.5	14.4	N	V86
C/2015 F4	2015 08 17.84488	19 04 51.86	+38 33 02.9	13.6	N	I57
C/2015 F4	2015 08 17.84818	19 04 51.55	+38 33 07.4	13.6	N	I57
C/2015 F4	2015 08 17.85149	19 04 51.26	+38 33 11.7	13.6	N	I57
C/2015 F4	2015 08 17.90833	19 04 46.04	+38 34 26.8	13.6	N	I99
C/2015 F4	2015 08 17.91004	19 04 45.87	+38 34 29.3	13.6	N	I99
C/2015 F4	2015 08 17.91263	19 04 45.62	+38 34 32.8	13.6	N	I99
C/2015 F4	2015 08 18.85433	19 03 24.21	+38 54 57.5	14.5	N	A77
C/2015 F4	2015 08 18.85948	19 03 23.73	+38 55 05.1	14.6	N	A77
C/2015 F4	2015 08 18.86378	19 03 23.38	+38 55 10.3	14.5	N	A77
C/2015 F4	2015 08 18.86893	19 03 22.90	+38 55 16.4	14.6	N	A77
C/2015 F4	2015 08 18.88632	19 03 21.36	+38 55 39.0	14.3	N	A77
C/2015 F4	2015 08 18.88969	19 03 21.09	+38 55 42.9	14.3	N	A77
C/2015 F4	2015 08 18.89368	19 03 20.76	+38 55 47.9	14.3	N	A77
C/2015 F4	2015 08 18.89777	19 03 20.36	+38 55 53.3	14.3	N	A77
C/2015 F4	2015 08 18.90303	19 03 19.99	+38 56 00.5	14.7	N	J01
C/2015 F4	2015 08 18.90321	19 03 19.89	+38 56 00.2	14.3	N	A77
C/2015 F4	2015 08 18.90843	19 03 19.45	+38 56 06.7	14.3	N	A77
C/2015 F4	2015 08 18.91462	19 03 18.99	+38 56 15.1	14.6	N	J01
C/2015 F4	2015 08 18.91859	19 03 18.54	+38 56 19.2	14.3	N	A77
C/2015 F4	2015 08 18.92418	19 03 18.06	+38 56 26.8	14.3	N	A77
C/2015 F4	2015 08 18.92910	19 03 17.72	+38 56 33.3	14.7	N	J01
C/2015 F4	2015 08 19.83461	19 02 02.45	+39 15 16.6	13.3	N	C36
C/2015 F4	2015 08 19.83549	19 02 02.31	+39 15 18.4	13.2	N	C36
C/2015 F4	2015 08 19.83637	19 02 02.28	+39 15 19.0	13.2	N	C36
C/2015 F4	2015 08 19.83725	19 02 02.20	+39 15 20.7	13.3	N	C36
C/2015 F4	2015 08 19.83812	19 02 02.06	+39 15 21.2	13.2	N	C36
C/2015 F4	2015 08 19.83900	19 02 02.15	+39 15 23.0	13.1	N	C36
C/2015 F4	2015 08 19.88478	19 01 58.44	+39 16 18.7	14.3	N	C23
C/2015 F4	2015 08 19.88575	19 01 58.40	+39 16 21.9	13.7	N	I99
C/2015 F4	2015 08 19.88953	19 01 58.08	+39 16 26.6	13.7	N	I99
C/2015 F4	2015 08 19.89526	19 01 57.61	+39 16 33.4	13.6	N	I99
C/2015 F4	2015 08 19.89527	19 01 57.54	+39 16 31.3	14.2	N	C23
C/2015 F4	2015 08 19.90651	19 01 56.61	+39 16 44.9	14.3	N	C23
C/2015 F4	2015 08 19.94001	19 01 53.82	+39 17 27.5	13.6	N	J53
C/2015 F4	2015 08 19.94545	19 01 53.36	+39 17 34.0	13.6	N	J53
C/2015 F4	2015 08 19.94874	19 01 53.08	+39 17 38.1	13.6	N	J53
C/2015 F4	2015 08 20.93722	19 00 34.73	+39 37 06.9	13.7	N	J38
C/2015 F4	2015 08 20.93860	19 00 34.61	+39 37 08.6	13.7	N	J38
C/2015 F4	2015 08 20.93997	19 00 34.51	+39 37 10.1	13.7	N	J38
C/2015 F4	2015 08 20.96118	19 00 32.65	+39 37 33.8	13.8	N	m 139
C/2015 F4	2015 08 20.97068	19 00 31.94	+39 37 43.8	13.8	N	m 139
C/2015 F4	2015 08 20.99825	19 00 30.07	+39 38 10.9	14.0	N	m 139
C/2015 F4	2015 08 21.00365	19 00 29.33	+39 38 18.9	13.3	N	C36
C/2015 F4	2015 08 21.00413	19 00 29.29	+39 38 19.5	13.3	N	C36
C/2015 F4	2015 08 21.00486	19 00 29.20	+39 38 20.4	13.4	N	C36
C/2015 F4	2015 08 21.00604	19 00 29.12	+39 38 22.0	13.3	N	C36
C/2015 F4	2015 08 21.00790	19 00 28.94	+39 38 23.9	13.3	N	C36
C/2015 F4	2015 08 21.00958	19 00 28.83	+39 38 25.6	13.2	N	C36
C/2015 F4	2015 08 21.01153	19 00 28.67	+39 38 28.2	13.5	N	C36
C/2015 F4	2015 08 21.01192	19 00 28.65	+39 38 28.8	13.5	N	C36
C/2015 F4	2015 08 21.06105	19 00 24.71	+39 39 29.0	13.6	N	I57
C/2015 F4	2015 08 21.06615	19 00 24.31	+39 39 34.2	13.7	N	I57
C/2015 F4	2015 08 21.07024	19 00 23.97	+39 39 38.8	13.6	N	I57
C/2015 F4	2015 08 21.84597	18 59 25.92	+39 54 16.1	14.2	N	KK25
C/2015 F4	2015 08 21.85044	18 59 25.56	+39 54 20.9	14.2	N	KK25
C/2015 F4	2015 08 21.85446	18 59 25.27	+39 54 25.6	14.2	N	KK25
C/2015 F4	2015 08 21.87031	18 59 24.31	+39 54 44.9	13.8	N	J22
C/2015 F4	2015 08 21.87220	18 59 24.15	+39 54 47.3	13.8	N	J22
C/2015 F4	2015 08 21.87409	18 59 24.02	+39 54 49.3	13.8	N	J22
C/2015 F4	2015 08 21.90206	18 59 21.64	+39 55 17.4	15.2	N	B96
C/2015 F4	2015 08 21.90372	18 59 21.48	+39 55 19.0	14.8	N	B96
C/2015 F4	2015 08 21.90537	18 59 21.36	+39 55 21.2	15.1	N	B96
C/2015 F4	2015 08 21.90703	18 59 21.26	+39 55 22.6	15.1	N	B96
C/2015 F4	2015 08 21.90869	18 59 21.11	+39 55 24.8	15.0	N	B96
C/2015 F4	2015 08 21.91035	18 59 21.00	+39 55 26.6	15.0	N	B96
C/2015 F4	2015 08 21.91200	18 59 20.84	+39 55 28.4	15.1	N	B96
C/2015 F4	2015 08 21.92407	18 59 19.93	+39 55 40.3	15.8	N	K24
C/2015 F4	2015 08 21.95407	18 59 17.48	+39 56 11.5	13.0	N	C36
C/2015 F4	2015 08 21.95464	18 59 17.47	+39 56 11.8	13.1	N	C36
C/2015 F4	2015 08 21.95612	18 59 17.37	+39 56 13.7	13.1	N	C36
C/2015 F4	2015 08 21.95663	18 59 17.29	+39 56 14.6	13.1	N	C36
C/2015 F4	2015 08 21.96777	18 59 16.57	+39 56 28.2	15.7	N	K24
C/2015 F4	2015 08 21.98520	18 59 15.23	+39 56 46.9	13.8	N	B82
C/2015 F4	2015 08 21.98598	18 59 15.17	+39 56 47.7	13.7	N	B82
C/2015 F4	2015 08 21.98755	18 59 15.04	+39 56 49.4	13.7	N	B82
C/2015 F4	2015 08 21.98833	18 59 14.99	+39 56 50.4	13.8	N	B82
C/2015 F4	2015 08 22.84389	18 58 13.72	+40 12 16.1	13.7	N	J36
C/2015 F4	2015 08 22.84787	18 58 13.45	+40 12 20.6	13.6	N	J36
C/2015 F4	2015 08 22.84841	18 58 13.27	+40 12 20.9	14.5	N	107
C/2015 F4	2015 08 22.85139	18 58 13.23	+40 12 24.4	13.6	N	J36
C/2015 F4	2015 08 22.86745	18 58 11.83	+40 12 39.9	15.6	N	C47
C/2015 F4	2015 08 22.87077	18 58 11.57	+40 12 43.4	15.6	N	C47
C/2015 F4	2015 08 22.87117	18 58 11.58	+40 12 44.3	13.8	N	107

C/2015 F4	2015 08 22.87446	18 58 11.29	+40 12 47.4	15.6	N	C47
C/2015 F4	2015 08 22.87815	18 58 11.02	+40 12 51.1	15.1	N	C47
C/2015 F4	2015 08 22.88184	18 58 10.74	+40 12 55.2	15.5	N	C47
C/2015 F4	2015 08 22.88193	18 58 10.57	+40 12 52.6	13.0	N	C36
C/2015 F4	2015 08 22.88341	18 58 10.49	+40 12 53.3	13.0	N	C36
C/2015 F4	2015 08 22.88467	18 58 10.45	+40 12 54.5	13.0	N	C36
C/2015 F4	2015 08 22.88545	18 58 10.40	+40 12 55.1	12.9	N	C36
C/2015 F4	2015 08 22.88553	18 58 10.48	+40 12 58.7	15.6	N	C47
C/2015 F4	2015 08 22.89014	18 58 10.05	+40 13 02.0	13.1	N	C36
C/2015 F4	2015 08 22.89086	18 58 10.00	+40 13 01.9	13.1	N	C36
C/2015 F4	2015 08 22.89466	18 58 09.85	+40 13 08.8	13.9	N	107
C/2015 F4	2015 08 22.89844	18 58 09.63	+40 13 13.0	15.2	N	B96
C/2015 F4	2015 08 22.90341	18 58 09.27	+40 13 18.2	15.1	N	B96
C/2015 F4	2015 08 22.90839	18 58 08.92	+40 13 23.5	15.1	N	B96
C/2015 F4	2015 08 23.88623	18 57 01.89	+40 30 08.1	15.9	N	238
C/2015 F4	2015 08 23.88860	18 57 01.75	+40 30 09.9	15.5	N	238
C/2015 F4	2015 08 23.89098	18 57 01.55	+40 30 12.2	15.2	N	238
C/2015 F4	2015 08 23.89334	18 57 01.38	+40 30 14.9	15.3	N	238
C/2015 F4	2015 08 23.89571	18 57 01.19	+40 30 17.5	14.7	N	238
C/2015 F4	2015 08 23.94112	18 56 58.16	+40 31 03.5	14.0	N	I81
C/2015 F4	2015 08 23.94777	18 56 57.70	+40 31 10.1	14.0	N	I81
C/2015 F4	2015 08 23.95206	18 56 57.41	+40 31 14.3	14.0	N	I81
C/2015 F4	2015 08 24.61559	18 56 14.39	+40 42 13.1	16.3	N	N55
C/2015 F4	2015 08 24.63209	18 56 13.29	+40 42 29.1	16.4	N	N55
C/2015 F4	2015 08 24.63924	18 56 12.79	+40 42 36.3	16.3	N	N55
C/2015 F4	2015 08 24.64086	18 56 12.67	+40 42 38.2	16.2	N	N55
C/2015 F4	2015 08 24.64248	18 56 12.55	+40 42 39.7	16.2	N	N55
C/2015 F4	2015 08 24.64913	18 56 12.13	+40 42 45.8	16.4	N	N55
C/2015 F4	2015 08 24.65116	18 56 11.95	+40 42 48.0	15.7	N	N55
C/2015 F4	2015 08 24.82053	18 56 01.39	+40 45 29.7	14.1	N	K14
C/2015 F4	2015 08 24.83407	18 56 00.50	+40 45 42.8	14.1	N	K14
C/2015 F4	2015 08 24.84199	18 55 59.99	+40 45 49.8	13.6	N	939
C/2015 F4	2015 08 24.84698	18 55 59.66	+40 45 54.7	13.6	N	939
C/2015 F4	2015 08 24.84911	18 55 59.44	+40 45 57.2	14.1	N	K14
C/2015 F4	2015 08 24.85444	18 55 59.15	+40 46 02.0	13.6	N	939
C/2015 F4	2015 08 25.83678	18 54 58.88	+41 01 24.1	13.8	N	C86
C/2015 F4	2015 08 25.84014	18 54 58.66	+41 01 27.1	13.8	N	C86
C/2015 F4	2015 08 25.84238	18 54 58.54	+41 01 29.3	13.8	N	C86
C/2015 F4	2015 08 25.88328	18 54 55.89	+41 02 06.4	15.2	N	K K32
C/2015 F4	2015 08 25.89061	18 54 55.46	+41 02 13.0	15.2	N	K K32
C/2015 F4	2015 08 25.89669	18 54 55.04	+41 02 16.9	14.4	N	K61
C/2015 F4	2015 08 25.89737	18 54 55.00	+41 02 17.5	14.5	N	K61
C/2015 F4	2015 08 25.89743	18 54 55.03	+41 02 19.0	15.2	N	K K32
C/2015 F4	2015 08 25.89839	18 54 54.94	+41 02 18.3	14.3	N	K61
C/2015 F4	2015 08 25.95341	18 54 51.67	+41 03 07.5	13.9	N	I81
C/2015 F4	2015 08 25.96834	18 54 50.62	+41 03 21.2	15.8	N	C47
C/2015 F4	2015 08 25.96854	18 54 50.77	+41 03 21.2	14.0	N	I81
C/2015 F4	2015 08 25.97092	18 54 50.47	+41 03 23.8	15.8	N	C47
C/2015 F4	2015 08 25.97388	18 54 50.32	+41 03 26.3	15.9	N	C47
C/2015 F4	2015 08 25.97435	18 54 50.43	+41 03 26.4	14.0	N	I81
C/2015 F4	2015 08 25.97683	18 54 50.07	+41 03 28.8	15.8	N	C47
C/2015 F4	2015 08 25.97978	18 54 49.93	+41 03 31.7	15.8	N	C47
C/2015 F4	2015 08 25.98273	18 54 49.74	+41 03 34.4	15.8	N	C47
C/2015 F4	2015 08 26.11984	18 54 42.20	+41 05 39.8	14.8	N	G49
C/2015 F4	2015 08 26.16123	18 54 39.59	+41 06 19.1	15.1	N	G49
C/2015 F4	2015 08 26.84155	18 54 00.82	+41 16 21.3	15.3	N	C47
C/2015 F4	2015 08 26.84487	18 54 00.62	+41 16 24.3	15.6	N	C47
C/2015 F4	2015 08 26.84856	18 54 00.40	+41 16 27.3	15.9	N	C47
C/2015 F4	2015 08 26.85225	18 54 00.20	+41 16 30.2	15.9	N	C47
C/2015 F4	2015 08 26.85594	18 53 59.96	+41 16 33.9	15.7	N	C47
C/2015 F4	2015 08 26.85963	18 53 59.73	+41 16 36.8	15.8	N	C47
C/2015 F4	2015 08 26.86332	18 53 59.54	+41 16 40.2	15.8	N	C47
C/2015 F4	2015 08 26.86701	18 53 59.31	+41 16 43.2	15.8	N	C47
C/2015 F4	2015 08 26.90470	18 53 57.31	+41 17 14.6	13.8	N	I81
C/2015 F4	2015 08 26.90736	18 53 57.16	+41 17 16.9	13.8	N	I81
C/2015 F4	2015 08 26.91605	18 53 56.65	+41 17 24.6	13.4	N	I81

C/2015 F5 (SWAN-Xingming)

C/2015 F5	2015 04 26.43172	05 15 57.47	+51 46 34.2	12.3	T	349
C/2015 F5	2015 04 26.43668	05 16 01.63	+51 46 25.2			349
C/2015 F5	2015 04 26.44161	05 16 05.75	+51 46 15.3			349
C/2015 F5	2015 04 29.44979	05 53 24.65	+50 07 43.2	13.9	T	K D95
C/2015 F5	2015 04 29.45445	05 53 27.44	+50 07 32.7			K D95

C/2015 GX (PANSTARRS)

C/2015 GX	2015 06 10.50057	16 24 46.90	+79 11 51.3	18.7	T	K D95
C/2015 GX	2015 06 10.50918	16 24 42.75	+79 12 01.5			K D95
C/2015 GX	2015 06 10.51133	16 24 41.81	+79 12 03.9			K D95
C/2015 GX	2015 06 10.95688	16 21 19.19	+79 20 26.6	17.7	N	K 585
C/2015 GX	2015 06 10.95761	16 21 19.05	+79 20 27.5	17.8	N	K 585
C/2015 GX	2015 06 10.95834	16 21 18.78	+79 20 28.4	17.8	N	K 585
C/2015 GX	2015 06 10.95906	16 21 18.10	+79 20 29.0	17.8	N	K 585
C/2015 GX	2015 06 10.95997	16 21 17.71	+79 20 30.0	17.7	N	K 585
C/2015 GX	2015 06 10.96052	16 21 17.43	+79 20 30.6	17.6	N	K 585
C/2015 GX	2015 06 10.96197	16 21 16.80	+79 20 32.3	17.9	N	K 585
C/2015 GX	2015 06 10.96343	16 21 16.14	+79 20 33.8	18.0	N	K 585
C/2015 GX	2015 06 10.96415	16 21 15.83	+79 20 34.5	18.0	N	K 585
C/2015 GX	2015 06 30.95112	13 11 50.20	+81 19 25.2	17.6	N	K C23
C/2015 GX	2015 06 30.95545	13 11 47.78	+81 19 24.5	17.7	N	K C23
C/2015 GX	2015 06 30.95834	13 11 46.66	+81 19 22.6	17.6	N	K C23
C/2015 GX	2015 06 30.96123	13 11 45.02	+81 19 22.0	17.7	N	K C23
C/2015 GX	2015 07 05.87555	12 34 41.64	+80 46 00.1	18.7	N	K A77
C/2015 GX	2015 07 05.88616	12 34 37.45	+80 45 54.8	18.6	N	K A77
C/2015 GX	2015 07 05.89676	12 34 32.87	+80 45 49.5	18.6	N	K A77
C/2015 GX	2015 07 07.89673	12 21 58.38	+80 28 50.3	18.2	N	K 157
C/2015 GX	2015 07 07.90198	12 21 56.47	+80 28 47.9	18.3	N	K 157
C/2015 GX	2015 07 07.90724	12 21 54.67	+80 28 44.7	18.2	N	K 157
C/2015 GX	2015 07 09.92240	12 10 36.60	+80 10 22.3	17.8	N	C23
C/2015 GX	2015 07 09.92817	12 10 35.35	+80 10 18.8	17.7	N	C23
C/2015 GX	2015 07 09.93395	12 10 33.51	+80 10 15.0	18.0	N	C23
C/2015 GX	2015 07 10.94948	12 05 21.40	+80 00 37.1	18.3	T	K 215
C/2015 GX	2015 07 10.95140	12 05 20.81	+80 00 35.9	18.4	T	K 215
C/2015 GX	2015 07 10.95331	12 05 20.22	+80 00 34.8	18.5	T	K 215
C/2015 GX	2015 07 17.87275	11 37 19.13	+78 52 14.2	18.5	N	K 157
C/2015 GX	2015 07 17.88080	11 37 17.57	+78 52 08.9	18.4	N	K 157
C/2015 GX	2015 08 10.85765	10 57 24.31	+75 38 38.1	18.2	N	A71
C/2015 GX	2015 08 10.86186	10 57 24.10	+75 38 37.1	18.0	N	A71

C/2015 GX	2015 08 10.86609	10 57 24.00	+75 38 35.3	18.0	N	A71
C/2015 GX	2015 08 10.87030	10 57 23.86	+75 38 33.9	18.4	N	A71
C/2015 GX	2015 08 10.87453	10 57 23.64	+75 38 32.7	18.3	N	A71
C/2015 GX	2015 08 10.87875	10 57 23.59	+75 38 30.8	18.5	N	A71
C/2015 GX	2015 08 12.87221	10 56 07.03	+75 28 26.2	18.6	N	K L04
C/2015 GX	2015 08 12.88228	10 56 06.83	+75 28 22.9	18.2	N	K L04
C/2015 GX	2015 08 12.89081	10 56 06.56	+75 28 20.4	18.0	N	K L04

C/2015 H1 (Bressi)

C/2015 H1	2015 05 16.69214	20 52 00.58	+17 06 12.1	17.2	T	D95
C/2015 H1	2015 05 16.69429	20 52 00.21	+17 06 16.0			D95
C/2015 H1	2015 05 16.70183	20 51 59.03	+17 06 31.4			D95
C/2015 H1	2015 06 09.00143	19 17 12.21	+29 55 44.7	17.5	N	K 585
C/2015 H1	2015 06 09.00216	19 17 11.98	+29 55 46.0	17.6	N	K 585
C/2015 H1	2015 06 09.00234	19 17 11.92	+29 55 46.4	17.6	N	K 585
C/2015 H1	2015 06 09.00343	19 17 11.56	+29 55 48.3	17.7	N	K 585
C/2015 H1	2015 06 09.00416	19 17 11.33	+29 55 49.6	17.6	N	K 585
C/2015 H1	2015 06 09.00488	19 17 11.10	+29 55 50.9	17.7	N	K 585
C/2015 H1	2015 06 09.00561	19 17 10.84	+29 55 52.1	17.8	N	K 585
C/2015 H1	2015 06 09.00615	19 17 10.71	+29 55 53.1	17.7	N	K 585
C/2015 H1	2015 06 09.00669	19 17 10.53	+29 55 54.6	17.7	N	K 585
C/2015 H1	2015 06 09.00741	19 17 10.26	+29 55 55.9	17.8	N	K 585
C/2015 H1	2015 06 10.51906	19 08 46.86	+30 35 11.3	16.7	T	D95
C/2015 H1	2015 06 10.52552	19 08 44.66	+30 35 20.5			D95
C/2015 H1	2015 06 10.52875	19 08 43.63	+30 35 25.1			D95
C/2015 H1	2015 06 29.97435	17 15 59.92	+33 50 30.7	18.6	N	K C23
C/2015 H1	2015 06 29.97868	17 15 58.52	+33 50 27.9	18.0	N	K C23
C/2015 H1	2015 06 29.98301	17 15 57.24	+33 50 27.7	17.9	N	K C23
C/2015 H1	2015 06 29.98734	17 15 55.73	+33 50 27.3	18.3	N	K C23
C/2015 H1	2015 06 30.94592	17 10 55.32	+33 45 25.3	19.0	N	K 160
C/2015 H1	2015 06 30.94807	17 10 54.56	+33 45 24.3	18.7	N	K 160
C/2015 H1	2015 07 01.94415	17 05 49.12	+33 38 59.1	18.4	T	K 215
C/2015 H1	2015 07 01.94607	17 05 48.49	+33 38 58.5	17.9	T	K 215
C/2015 H1	2015 07 01.94800	17 05 47.86	+33 38 57.8	18.3	T	K 215
C/2015 H1	2015 07 06.99517	16 41 55.11	+32 51 24.5	19.6	N	9 G40
C/2015 H1	2015 07 07.02085	16 41 48.27	+32 51 05.9	19.5	N	9 G40
C/2015 H1	2015 07 07.04096	16 41 42.92	+32 50 50.0	18.5	N	K C23
C/2015 H1	2015 07 07.04674	16 41 41.30	+32 50 45.9	18.2	N	K C23
C/2015 H1	2015 07 07.04962	16 41 40.63	+32 50 43.2	18.0	N	K C23
C/2015 H1	2015 07 11.97768	16 21 37.61	+31 45 44.9	18.4	N	K C23
C/2015 H1	2015 07 11.98345	16 21 36.33	+31 45 38.0	18.2	N	K C23
C/2015 H1	2015 07 11.98923	16 21 34.99	+31 45 33.9	18.6	N	K C23
C/2015 H1	2015 07 19.97067	15 55 39.30	+29 40 01.0	18.6	N	K C23
C/2015 H1	2015 07 19.97789	15 55 37.95	+29 39 54.3	18.7	N	K C23
C/2015 H1	2015 07 20.93184	15 53 01.95	+29 24 09.8	20.0	N	K A77
C/2015 H1	2015 07 20.94756	15 52 59.50	+29 23 52.5	19.8	N	K A77
C/2015 H1	2015 07 27.28006	15 38 02.961	+27 38 42.06	20.4	T	F51
C/2015 H1	2015 07 27.29200	15 38 01.458	+27 38 30.02	20.7	T	F51
C/2015 H1	2015 07 27.30419	15 37 59.959	+27 38 18.43	20.8	T	F51
C/2015 H1	2015 07 27.31627	15 37 58.428	+27 38 06.05	20.7	T	F51

C/2015 H2 (PANSTARRS)

C/2015 H2	2015 07 19.31899	13 21 29.55	−41 28 31.4	18.5	N	K 474
C/2015 H2	2015 07 19.32111	13 21 29.62	−41 28 31.3	18.6	N	K 474
C/2015 H2	2015 07 19.32322	13 21 29.64	−41 28 31.1	18.9	N	K 474
C/2015 H2	2015 07 19.37050	13 21 30.67	−41 28 27.3			1 Q62
C/2015 H2	2015 07 19.37471	13 21 30.74	−41 28 26.9	18.1	T	1 Q62
C/2015 H2	2015 08 25.32907	13 42 23.02	−41 26 35.3	19.3	N	K 474
C/2015 H2	2015 08 25.33258	13 42 23.17	−41 26 35.4	19.4	N	K 474
C/2015 H2	2015 08 25.33610	13 42 23.31	−41 26 35.9	19.4	N	K 474

C/2015 J1 (PANSTARRS)

C/2015 J1	2015 07 17.31911	13 43 03.56	−22 18 58.5	20.1	N	K 474
C/2015 J1	2015 07 17.32263	13 43 03.57	−22 18 56.8	20.7	N	K 474
C/2015 J1	2015 07 17.32633	13 43 03.58	−22 18 55.5			K 474
C/2015 J1	2015 07 17.33319	13 43 03.63	−22 18 53.1	19.7	N	K 474

C/2015 J2 (PANSTARRS)

C/2015 J2	2015 05 22.49155	16 06 47.01	−23 38 19.1			1 Q62
C/2015 J2	2015 05 22.49325	16 06 46.94	−23 38 19.0			1 Q62
C/2015 J2	2015 05 22.49495	16 06 46.90	−23 38 19.2	18.1	T	1 Q62
C/2015 J2	2015 07 10.91540	15 49 10.88	−25 18 28.3	19.0	T	K 215
C/2015 J2	2015 07 10.91732	15 49 10.96	−25 18 29.0	18.7	T	K 215
C/2015 J2	2015 07 10.91925	15 49 10.81	−25 18 31.2	18.5	T	K 215
C/2015 J2	2015 08 14.39761	15 55 30.58	−26 42 29.2	20.7	N	I E07
C/2015 J2	2015 08 14.42713	15 55 31.39	−26 42 35.0	20.2	N	K E07
C/2015 J2	2015 08 25.34516	16 01 18.52	−27 14 17.1	20.5	N	K 474
C/2015 J2	2015 08 25.34867	16 01 18.67	−27 14 18.4	19.4	N	K 474
C/2015 J2	2015 08 25.35220	16 01 18.80	−27 14 18.7	20.0	N	K 474

P/2015 J3 (NEOWISE)

P/2015 J3	2015 07 10.64758	22 28 12.78	−14 56 55.6	19.6	N	K 474
P/2015 J3	2015 07 10.64969	22 28 12.77	−14 56 56.7	19.9	N	K 474
P/2015 J3	2015 07 10.65179	22 28 12.73	−14 56 57.7	19.5	N	K 474
P/2015 J3	2015 07 10.65391	22 28 12.69	−14 56 58.8	19.7	N	K 474
P/2015 J3	2015 07 12.50811	22 27 49.351	−15 12 47.14	20.4	T	F51
P/2015 J3	2015 07 12.51927	22 27 49.148	−15 12 52.91	20.5	T	F51
P/2015 J3	2015 07 12.53041	22 27 48.957	−15 12 58.75	20.5	T	F51
P/2015 J3	2015 07 12.54155	22 27 48.756	−15 13 04.44	20.6	T	F51
P/2015 J3	2015 07 14.54544	22 27 14.723	−15 30 39.71	20.1	T	F51
P/2015 J3	2015 07 14.55677	22 27 14.478	−15 30 45.91	20.2	T	F51
P/2015 J3	2015 07 14.56806	22 27 14.225	−15 30 51.92	20.3	T	F51
P/2015 J3	2015 07 14.57952	22 27 13.970	−15 30 58.00	20.3	T	F51
P/2015 J3	2015 07 15.99465	22 26 44.94	−15 43 48.4	19.0	T	K 215
P/2015 J3	2015 07 15.99656	22 26 44.87	−15 43 49.2	19.0	T	K 215
P/2015 J3	2015 07 15.99847	22 26 44.81	−15 43 49.9	19.1	T	K 215
P/2015 J3	2015 07 19.53623	22 25 14.03	−16 16 47.4	18.8	N	K 474
P/2015 J3	2015 07 19.53834	22 25 13.97	−16 16 48.3	19.9	N	K 474
P/2015 J3	2015 07 19.54045	22 25 13.93	−16 16 50.0	20.1	N	K 474
P/2015 J3	2015 07 19.54257	22 25 13.84	−16 16 51.0	19.4	N	K 474
P/2015 J3	2015 07 19.55568	22 25 13.230	−16 17 07.49	20.3	T	F52
P/2015 J3	2015 07 19.56841	22 25 12.821	−16 17 14.53	20.2	T	F52
P/2015 J3	2015 07 19.58108	22 25 12.414	−16 17 21.79	20.2	T	F52
P/2015 J3	2015 07 19.59344	22 25 12.009	−16 17 28.86	20.2	T	F52
P/2015 J3	2015 07 21.38580	22 24 16.63	−16 34 49.4	19.5	T	G45
P/2015 J3	2015 07 21.39662	22 24 16.30	−16 34 55.0	19.7	T	G45
P/2015 J3	2015 07 21.40083	22 24 16.06	−16 34 57.6	19.5	T	G45
P/2015 J3	2015 07 21.40911	22 24 15.79	−16 35 01.7	19.1	T	G45

P/2015 J3	2015 07 24.47806	22 22 27.545	−17 05 16.60	20.4	T		F51
P/2015 J3	2015 07 24.49009	22 22 27.058	−17 05 23.85	20.4	T		F51
P/2015 J3	2015 07 24.50205	22 22 26.557	−17 05 31.01	20.4	T		F51
P/2015 J3	2015 07 24.51402	22 22 26.065	−17 05 38.18	20.4	T		F51
P/2015 J3	2015 08 09.47613	22 09 36.158	−19 43 04.88	20.3	T		F51
P/2015 J3	2015 08 09.48892	22 09 35.407	−19 43 12.12	20.4	T		F51
P/2015 J3	2015 08 09.50092	22 09 34.718	−19 43 18.55	20.2	T		F51
P/2015 J3	2015 08 09.51270	22 09 34.010	−19 43 25.13	20.2	T		F51
P/2015 J3	2015 08 11.42892	22 07 47.514	−20 00 58.33	20.3	T		F51
P/2015 J3	2015 08 11.44023	22 07 46.836	−20 01 04.55	20.3	T		F51
P/2015 J3	2015 08 11.45169	22 07 46.166	−20 01 10.74	20.5	T		F51
P/2015 J3	2015 08 11.46312	22 07 45.504	−20 01 16.94	20.4	T		F51
P/2015 J3	2015 08 11.46466	22 07 45.406	−20 01 17.79	20.5	T		F51
P/2015 J3	2015 08 11.47653	22 07 44.702	−20 01 24.17	20.5	T		F51
P/2015 J3	2015 08 11.48846	22 07 43.993	−20 01 30.58	20.6	T		F51
P/2015 J3	2015 08 11.50037	22 07 43.295	−20 01 37.04	20.6	T		F51
P/2015 J3	2015 08 12.45819	22 06 49.606	−20 10 11.16	20.4	T		F51
P/2015 J3	2015 08 12.47008	22 06 48.909	−20 10 17.28	20.3	T		F51
P/2015 J3	2015 08 12.48201	22 06 48.187	−20 10 23.72	20.5	T		F51
P/2015 J3	2015 08 12.49391	22 06 47.485	−20 10 29.97	20.4	T		F51
P/2015 J3	2015 08 14.31283	22 05 04.87	−20 26 22.0	18.4	T		G45
P/2015 J3	2015 08 14.32260	22 05 04.39	−20 26 27.2	19.0	T		G45
P/2015 J3	2015 08 14.32823	22 05 04.05	−20 26 29.7	19.1	T		G45
P/2015 J3	2015 08 14.33254	22 05 03.80	−20 26 31.8	19.1	T		G45
P/2015 J3	2015 08 14.33261	22 05 03.84	−20 26 31.5	19.4	T		G45
P/2015 J3	2015 08 22.52582	21 57 28.98	−21 29 54.7	20.3	N	K	474
P/2015 J3	2015 08 22.52793	21 57 28.88	−21 29 55.7	19.3	N	K	474
P/2015 J3	2015 08 22.53004	21 57 28.76	−21 29 56.6	19.7	N	K	474
P/2015 J3	2015 08 25.51947	21 54 51.77	−21 49 30.0	20.0	N	K	474
P/2015 J3	2015 08 25.52298	21 54 51.55	−21 49 31.3	19.6	N	K	474
P/2015 J3	2015 08 25.52650	21 54 51.43	−21 49 32.6	19.8	N	K	474

C/2015 K1 (MASTER)

C/2015 K1	2015 06 01.80270	00 32 49.81	−04 43 01.5			1	Q62
C/2015 K1	2015 06 01.80690	00 32 49.96	−04 42 59.2	16.0	T	1	Q62
C/2015 K1	2015 06 28.06210	00 47 45.01	−01 35 29.0	17.6	N	K	160
C/2015 K1	2015 06 28.06484	00 47 45.03	−01 35 27.6	18.0	N	K	160
C/2015 K1	2015 06 28.06758	00 47 45.08	−01 35 26.4	16.9	N	K	160
C/2015 K1	2015 07 09.41459	00 51 11.80	−00 31 14.0	17.7	N		G32
C/2015 K1	2015 07 09.41690	00 51 11.82	−00 31 13.3	17.6	N		G32
C/2015 K1	2015 07 09.41921	00 51 11.84	−00 31 12.9	17.8	N		G32
C/2015 K1	2015 07 09.42153	00 51 11.86	−00 31 12.4	17.6	N		G32
C/2015 K1	2015 07 09.42382	00 51 11.87	−00 31 11.5	17.6	N		G32
C/2015 K1	2015 07 09.42612	00 51 11.94	−00 31 10.6	17.5	N		G32
C/2015 K1	2015 07 11.01465	00 51 31.45	−00 23 04.9	17.9	T	K	215
C/2015 K1	2015 07 11.01593	00 51 31.46	−00 23 04.6	17.8	T	K	215
C/2015 K1	2015 07 11.01720	00 51 31.47	−00 23 04.1			K	215
C/2015 K1	2015 07 11.05135	00 51 31.82	−00 22 53.2	17.9	N	K	160
C/2015 K1	2015 07 11.05384	00 51 31.86	−00 22 52.6	17.9	N	K	160
C/2015 K1	2015 07 11.05633	00 51 31.89	−00 22 52.2	17.8	N	K	160
C/2015 K1	2015 07 11.70904	00 51 39.16	−00 19 34.4	16.7	T		D95
C/2015 K1	2015 07 11.71120	00 51 39.17	−00 19 33.9				D95
C/2015 K1	2015 07 11.71658	00 51 39.22	−00 19 32.0				D95
C/2015 K1	2015 07 12.04796	00 51 42.76	−00 17 53.3	18.1	N	K	160
C/2015 K1	2015 07 12.05032	00 51 42.76	−00 17 52.3	17.5	N	K	160
C/2015 K1	2015 07 12.05253	00 51 42.79	−00 17 51.6	17.7	N	K	160
C/2015 K1	2015 07 13.04905	00 51 52.73	−00 12 57.1	16.8	N	K	160
C/2015 K1	2015 07 13.05135	00 51 52.73	−00 12 56.5	17.0	N	K	160
C/2015 K1	2015 07 13.05365	00 51 52.71	−00 12 55.1	18.0	N	K	160
C/2015 K1	2015 07 14.69931	00 52 07.03	−00 04 57.1	17.5	T		372
C/2015 K1	2015 07 14.70729	00 52 07.09	−00 04 54.5				372
C/2015 K1	2015 07 18.02898	00 52 27.59	+00 10 24.4	17.9	N	K	160
C/2015 K1	2015 07 18.03132	00 52 27.61	+00 10 25.7	18.4	N	K	160
C/2015 K1	2015 07 18.03366	00 52 27.75	+00 10 27.0	18.4	N	K	160
C/2015 K1	2015 07 18.72978	00 52 30.62	+00 13 33.3	16.7	T		349
C/2015 K1	2015 07 18.73880	00 52 30.64	+00 13 35.9				349
C/2015 K1	2015 07 20.00590	00 52 34.78	+00 19 10.4	18.4	N	K	160
C/2015 K1	2015 07 20.00823	00 52 34.70	+00 19 09.1	18.4	N	K	160
C/2015 K1	2015 07 21.01723	00 52 36.88	+00 23 28.6	18.0	N	K	160
C/2015 K1	2015 07 21.01955	00 52 36.89	+00 23 29.4	18.1	N	K	160
C/2015 K1	2015 07 21.02187	00 52 36.89	+00 23 29.4	17.4	N	K	160
C/2015 K1	2015 07 26.67099	00 52 29.72	+00 46 09.3			K	D81
C/2015 K1	2015 07 26.68210	00 52 29.68	+00 46 11.9	16.4	T	K	D81
C/2015 K1	2015 07 30.53015	00 52 06.392	+01 00 11.48	18.7	T		F51
C/2015 K1	2015 07 30.54263	00 52 06.271	+01 00 14.13	18.8	T		F51
C/2015 K1	2015 07 30.55480	00 52 06.171	+01 00 16.56	18.8	T		F51
C/2015 K1	2015 07 31.48826	00 51 58.327	+01 03 28.95	18.8	T		F51
C/2015 K1	2015 07 31.50054	00 51 58.203	+01 03 31.59	18.7	T		F51
C/2015 K1	2015 07 31.51358	00 51 58.087	+01 03 34.23	18.7	T		F51
C/2015 K1	2015 07 31.52585	00 51 57.955	+01 03 36.81	18.6	T		F51
C/2015 K1	2015 08 07.67957	00 50 28.41	+01 25 54.7	17.2	N		Q68
C/2015 K1	2015 08 07.73671	00 50 27.40	+01 26 04.0	16.8	N		Q68
C/2015 K1	2015 08 08.01639	00 50 22.94	+01 26 48.1	17.7	N		A71
C/2015 K1	2015 08 08.01992	00 50 22.86	+01 26 48.6	17.7	N		A71
C/2015 K1	2015 08 08.03047	00 50 22.69	+01 26 50.6	17.3	N		A71
C/2015 K1	2015 08 08.04900	00 50 22.38	+01 26 53.7	17.7	N		A71
C/2015 K1	2015 08 10.63529	00 49 36.77	+01 33 56.8	17.0	N		Q68
C/2015 K1	2015 08 10.73018	00 49 34.82	+01 34 11.2	17.1	N		Q68
C/2015 K1	2015 08 11.03040	00 49 29.13	+01 34 55.0	18.0	N	K	C47
C/2015 K1	2015 08 11.03907	00 49 28.89	+01 34 55.5	18.1	N	K	C47
C/2015 K1	2015 08 11.04331	00 49 28.79	+01 34 56.4	18.3	N	K	C47
C/2015 K1	2015 08 12.05394	00 49 08.93	+01 37 29.5	18.1	N	K	160
C/2015 K1	2015 08 12.05652	00 49 08.85	+01 37 29.2	17.5	N	K	160
C/2015 K1	2015 08 12.05898	00 49 08.80	+01 37 29.2	17.7	N	K	160
C/2015 K1	2015 08 13.41071	00 48 40.49	+01 40 48.9	16.1	T		G45
C/2015 K1	2015 08 13.41596	00 48 40.35	+01 40 49.7	16.1	T		G45
C/2015 K1	2015 08 13.42092	00 48 40.24	+01 40 50.6	16.4	T		G45
C/2015 K1	2015 08 13.43234	00 48 39.98	+01 40 52.1	16.3	T		G45
C/2015 K1	2015 08 13.81965	00 48 31.53	+01 41 46.7	16.3	T		D29
C/2015 K1	2015 08 13.83376	00 48 31.21	+01 41 48.8	16.1	T		D29
C/2015 K1	2015 08 13.84787	00 48 30.89	+01 41 50.8	16.2	T		D29
C/2015 K1	2015 08 14.30519	00 48 20.92	+01 42 57.5	18.6	T		Y00
C/2015 K1	2015 08 14.31522	00 48 20.47	+01 42 59.2	18.8	T		Y00
C/2015 K1	2015 08 14.32433	00 48 20.15	+01 43 02.6	18.5	T		Y00
C/2015 K1	2015 08 14.41468	00 48 18.33	+01 43 10.5	16.0	T		G45
C/2015 K1	2015 08 14.41990	00 48 18.19	+01 43 10.3	15.7	T		G45

C/2015 K1	2015 08 14.42563	00 48 18.06	+01 43 12.5	15.9	T	G45
C/2015 K1	2015 08 14.42570	00 48 18.05	+01 43 10.4	15.7	T	G45
C/2015 K1	2015 08 14.43014	00 48 17.96	+01 43 12.5	16.2	T	G45
C/2015 K1	2015 08 14.43489	00 48 17.82	+01 43 12.4	15.7	T	G45
C/2015 K1	2015 08 16.01029	00 47 41.30	+01 46 47.3	17.6	N	958
C/2015 K1	2015 08 16.02278	00 47 41.00	+01 46 49.0	17.6	N	958
C/2015 K1	2015 08 16.03603	00 47 40.59	+01 46 50.5	17.7	N	958
C/2015 K1	2015 08 17.35823	00 47 08.15	+01 49 43.9	16.9	N	W96
C/2015 K1	2015 08 17.38380	00 47 07.45	+01 49 47.2	17.0	N	W96
C/2015 K1	2015 08 19.71497	00 46 06.42	+01 54 29.7	17.1	N	Q68
C/2015 K1	2015 08 19.77739	00 46 04.68	+01 54 36.9	17.2	N	Q68
C/2015 K1	2015 08 20.41971	00 45 47.11	+01 55 46.3	16.0	T	703
C/2015 K1	2015 08 20.42730	00 45 46.88	+01 55 48.6	16.2	T	703
C/2015 K1	2015 08 20.43488	00 45 46.68	+01 55 49.6	16.1	T	703
C/2015 K1	2015 08 20.44247	00 45 46.44	+01 55 50.4	16.3	T	703
C/2015 K1	2015 08 22.00032	00 45 02.12	+01 58 41.5	17.3	N	K K25
C/2015 K1	2015 08 22.00640	00 45 01.97	+01 58 42.1	17.2	N	K K25
C/2015 K1	2015 08 22.01248	00 45 01.78	+01 58 42.9	17.3	N	K K25
C/2015 K1	2015 08 22.12990	00 44 58.31	+01 58 54.5	17.5	N	K C23
C/2015 K1	2015 08 22.13567	00 44 58.13	+01 58 55.8	16.9	N	K C23
C/2015 K1	2015 08 22.14145	00 44 57.92	+01 58 56.1	16.8	N	K C23
C/2015 K1	2015 08 22.96980	00 44 33.54	+02 00 23.1	18.6	N	K C47
C/2015 K1	2015 08 22.97718	00 44 33.35	+02 00 23.6	17.6	N	K C47
C/2015 K1	2015 08 22.98013	00 44 33.25	+02 00 24.2	18.5	N	K C47
C/2015 K1	2015 08 22.98641	00 44 33.03	+02 00 24.8	18.5	N	K C47
C/2015 K1	2015 08 23.04218	00 44 31.35	+02 00 30.3	16.6	N	B96
C/2015 K1	2015 08 23.04715	00 44 31.19	+02 00 31.2	16.3	N	B96
C/2015 K1	2015 08 23.05213	00 44 30.98	+02 00 32.1	16.6	N	B96
C/2015 K1	2015 08 23.19501	00 44 26.81	+02 00 46.3	17.7	N	G30
C/2015 K1	2015 08 23.20538	00 44 26.53	+02 00 47.4	17.5	N	G30
C/2015 K1	2015 08 23.23486	00 44 25.59	+02 00 49.8	17.4	N	G30
C/2015 K1	2015 08 25.98580	00 42 59.86	+02 05 15.2	18.7	N	K C47
C/2015 K1	2015 08 25.98801	00 42 59.79	+02 05 15.8	18.4	N	K C47
C/2015 K1	2015 08 25.99022	00 42 59.72	+02 05 16.3	17.9	N	K C47
C/2015 K1	2015 08 25.99244	00 42 59.62	+02 05 16.4	18.4	N	K C47
C/2015 K1	2015 08 25.99723	00 42 59.46	+02 05 16.7	18.7	N	K C47

C/2015 K4 (PANSTARRS)

C/2015 K4	2015 06 30.97075	16 04 30.77	+20 42 35.6	18.1	N	K C23
C/2015 K4	2015 06 30.98085	16 04 29.80	+20 42 46.1	17.6	N	K C23
C/2015 K4	2015 07 01.93503	16 03 09.72	+21 04 16.6	19.1	T	K 215
C/2015 K4	2015 07 01.93694	16 03 09.58	+21 04 19.8	19.0	T	K 215
C/2015 K4	2015 07 01.93885	16 03 09.51	+21 04 21.9	19.0	T	K 215
C/2015 K4	2015 07 03.38364	16 01 13.378	+21 35 21.78	20.9	T	F51
C/2015 K4	2015 07 03.39720	16 01 12.303	+21 35 37.55	20.7	T	F51
C/2015 K4	2015 07 03.41053	16 01 11.222	+21 35 54.60	20.7	T	F51
C/2015 K4	2015 07 03.42382	16 01 10.175	+21 36 11.11	20.8	T	F51
C/2015 K4	2015 07 11.91848	15 51 54.89	+24 02 43.9	19.8	N	K 157
C/2015 K4	2015 07 11.92583	15 51 54.47	+24 02 50.7	19.9	N	K 157
C/2015 K4	2015 07 14.90003	15 49 28.52	+24 42 06.4	20.1	N	K 958
C/2015 K4	2015 07 14.91546	15 49 27.83	+24 42 16.6	21.7	N	K 958

P/2015 K5 (PANSTARRS)

P/2015 K5	2015 06 11.35559	16 26 45.89	+32 03 16.8			32H06
P/2015 K5	2015 06 11.35937	16 26 45.73	+32 03 14.8	19.4	T	32H06
P/2015 K5	2015 07 07.36558	16 16 17.426	+26 54 29.37	20.6	T	F51
P/2015 K5	2015 07 07.37953	16 16 17.248	+26 54 17.03	20.8	T	F51
P/2015 K5	2015 07 07.39336	16 16 17.065	+26 54 04.40	20.8	T	F51
P/2015 K5	2015 07 10.95902	16 15 46.92	+25 59 32.1	19.3	T	K 215
P/2015 K5	2015 07 10.96094	16 15 46.93	+25 59 30.1	19.4	T	K 215
P/2015 K5	2015 07 10.96286	16 15 46.95	+25 59 28.1	19.4	T	K 215
P/2015 K5	2015 07 14.56786	16 15 32.11	+25 02 18.5			372
P/2015 K5	2015 07 14.58116	16 15 32.05	+25 02 05.2			372
P/2015 K5	2015 07 14.59116	16 15 32.03	+25 01 55.6	19.3	N	372

C/2015 LC_2 (PANSTARRS)

C/2015 LC_2	2015 07 05.37757	13 51 54.27	−25 13 30.3			1 Q62
C/2015 LC_2	2015 07 05.38026	13 51 54.26	−25 13 28.7			1 Q62
C/2015 LC_2	2015 07 05.38295	13 51 54.28	−25 13 27.6	18.5	T	1 Q62
C/2015 LC_2	2015 08 12.25417	13 57 28.612	−20 30 09.92	19.8	T	F51
C/2015 LC_2	2015 08 12.25953	13 57 28.734	−20 30 07.82	19.7	T	F51
C/2015 LC_2	2015 08 12.26486	13 57 28.816	−20 30 06.37	19.8	T	F51
C/2015 LC_2	2015 08 12.26552	13 57 28.826	−20 30 06.20	19.7	T	F51
C/2015 LC_2	2015 08 12.27029	13 57 28.934	−20 30 04.17	19.8	T	F51
C/2015 LC_2	2015 08 12.27094	13 57 28.956	−20 30 04.02	19.7	T	F51

C/2015 M1 (PANSTARRS)

C/2015 M1	2015 07 10.51482	19 02 09.17	−36 31 51.9	19.3	N	K 474
C/2015 M1	2015 07 10.51693	19 02 08.97	−36 31 56.7	19.0	N	K 474
C/2015 M1	2015 07 10.51904	19 02 08.76	−36 32 01.8	19.0	N	K 474
C/2015 M1	2015 07 10.52115	19 02 08.55	−36 32 06.8	18.8	N	K 474
C/2015 M1	2015 07 17.50139	18 51 03.36	−40 46 11.3	19.8	N	K 474
C/2015 M1	2015 07 17.50984	18 51 02.53	−40 46 28.1			K 474
C/2015 M1	2015 07 17.51194	18 51 02.30	−40 46 32.5	19.3	N	K 474
C/2015 M1	2015 07 20.39730	18 46 32.84	−42 20 40.4	19.8	N	K 474
C/2015 M1	2015 07 20.40064	18 46 32.50	−42 20 46.5	20.1	N	K 474
C/2015 M1	2015 07 20.40417	18 46 32.19	−42 20 53.5	20.1	N	K 474
C/2015 M1	2015 07 20.40769	18 46 31.93	−42 21 00.2	20.4	N	K 474
C/2015 M1	2015 08 21.41824	18 14 53.09	−53 08 12.9	21.7	N	K 474
C/2015 M1	2015 08 21.44353	18 14 52.61	−53 08 30.2	21.2	N	K 474
C/2015 M1	2015 08 21.44705	18 14 52.54	−53 08 33.9	21.1	N	K 474

P/2015 M2 (PANSTARRS)

P/2015 M2	2015 06 28.57115	21 03 03.710	−19 56 36.94	20.0	T	F51
P/2015 M2	2015 06 28.58217	21 03 03.507	−19 56 38.15	20.4	T	F51
P/2015 M2	2015 06 28.59316	21 03 03.348	−19 56 39.04	20.0	T	F51
P/2015 M2	2015 06 29.53286	21 02 48.171	−19 58 18.29	20.0	T	F51
P/2015 M2	2015 06 29.54387	21 02 47.998	−19 58 19.40	20.2	T	F51
P/2015 M2	2015 06 30.53905	21 02 31.363	−20 00 06.06	20.0	T	F51
P/2015 M2	2015 06 30.55041	21 02 31.138	−20 00 07.30	20.4	T	F51
P/2015 M2	2015 06 30.56182	21 02 30.961	−20 00 08.39	20.1	T	F51
P/2015 M2	2015 06 30.57320	21 02 30.756	−20 00 09.92	20.3	T	F51
P/2015 M2	2015 07 07.58118	21 00 19.77	−20 13 21.4			1 Q62
P/2015 M2	2015 07 07.58368	21 00 19.72	−20 13 21.6			1 Q62
P/2015 M2	2015 07 07.58617	21 00 19.65	−20 13 22.1	18.9	T	1 Q62
P/2015 M2	2015 07 08.41801	21 00 02.44	−20 15 02.2	18.8	T	H 291

P/2015 M2	2015 07 08.44212	21 00 01.91	−20 15 05.7	18.9	T	H	291
P/2015 M2	2015 07 09.01970	20 59 49.97	−20 16 14.8	19.2	T	K	958
P/2015 M2	2015 07 09.06752	20 59 49.02	−20 16 19.4	19.0	T	K	958
P/2015 M2	2015 07 09.24437	20 59 45.19	−20 16 39.6	19.4	T	KW	96
P/2015 M2	2015 07 09.26780	20 59 44.71	−20 16 42.9	19.1	T	KW	96
P/2015 M2	2015 07 09.38377	20 59 42.32	−20 16 58.0	19.5	T	H	291
P/2015 M2	2015 07 09.39075	20 59 42.17	−20 16 58.3	18.9	T	H	291
P/2015 M2	2015 07 09.40586	20 59 41.84	−20 16 59.9	19.4	T	H	291
P/2015 M2	2015 07 09.99862	20 59 29.25	−20 18 11.3	19.3	T	K	958
P/2015 M2	2015 07 10.00965	20 59 28.99	−20 18 13.2	19.4	T	K	958
P/2015 M2	2015 07 10.02067	20 59 28.75	−20 18 14.8	19.7	T	K	958
P/2015 M2	2015 07 10.03197	20 59 28.56	−20 18 16.1	19.6	T	K	958
P/2015 M2	2015 07 10.04300	20 59 28.28	−20 18 16.8	19.3	T	K	958
P/2015 M2	2015 07 10.05403	20 59 28.08	−20 18 18.4	19.6	T	K	958
P/2015 M2	2015 07 10.06514	20 59 27.83	−20 18 20.2	19.6	T	K	958
P/2015 M2	2015 07 10.07617	20 59 27.57	−20 18 21.7	19.5	T	K	958
P/2015 M2	2015 07 10.31945	20 59 22.32	−20 18 48.6	19.1	T	KW	96
P/2015 M2	2015 07 10.34268	20 59 21.84	−20 18 51.2	18.9	T	KW	96
P/2015 M2	2015 07 11.36167	20 58 59.65	−20 20 57.0	17.6	T	K	291
P/2015 M2	2015 07 11.37197	20 58 59.53	−20 20 57.7			K	291
P/2015 M2	2015 07 11.38230	20 58 59.30	−20 20 58.9			K	291
P/2015 M2	2015 07 11.65429	20 58 53.28	−20 21 30.0	19.3	T	K	474
P/2015 M2	2015 07 11.65640	20 58 53.24	−20 21 30.2	19.3	T	K	474
P/2015 M2	2015 07 11.65851	20 58 53.19	−20 21 30.3	19.2	T	K	474
P/2015 M2	2015 07 11.66063	20 58 53.14	−20 21 30.6	19.3	T	K	474
P/2015 M2	2015 07 12.02564	20 58 45.16	−20 22 18.4			K	204
P/2015 M2	2015 07 12.03821	20 58 44.84	−20 22 19.4	19.2	N	K	204
P/2015 M2	2015 07 12.37510	20 58 37.34	−20 23 00.0			K	291
P/2015 M2	2015 07 12.38634	20 58 36.98	−20 23 01.8	18.8	T	K	291
P/2015 M2	2015 07 12.39760	20 58 36.75	−20 23 03.1	18.8	T	K	291
P/2015 M2	2015 07 12.41169	20 58 36.44	−20 23 02.9	19.0	T	G	32
P/2015 M2	2015 07 12.41608	20 58 36.27	−20 23 03.6	19.1	T	G	32
P/2015 M2	2015 07 12.42051	20 58 36.18	−20 23 04.5	18.9	T	G	32
P/2015 M2	2015 07 12.42494	20 58 36.12	−20 23 04.2	19.1	T	G	32
P/2015 M2	2015 07 12.55157	20 58 33.44	−20 23 20.3	19.1	T	K	E23
P/2015 M2	2015 07 12.56315	20 58 33.19	−20 23 22.2	19.0	T	K	E23
P/2015 M2	2015 07 12.57472	20 58 32.89	−20 23 23.4	19.0	T	K	E23
P/2015 M2	2015 07 12.93992	20 58 24.66	−20 24 10.0			K	104
P/2015 M2	2015 07 12.94915	20 58 24.47	−20 24 10.6			K	104
P/2015 M2	2015 07 14.02511	20 58 00.02	−20 26 23.8	18.8	T	K	I93
P/2015 M2	2015 07 14.06818	20 57 59.01	−20 26 29.1	19.1	T	K	I93
P/2015 M2	2015 07 14.13510	20 57 57.46	−20 26 37.4	19.0	T	9	G40
P/2015 M2	2015 07 14.13971	20 57 57.31	−20 26 37.9	19.3	T	9	G40
P/2015 M2	2015 07 14.17744	20 57 56.48	−20 26 42.1	19.0	T	9	G40
P/2015 M2	2015 07 14.18207	20 57 56.37	−20 26 42.9	19.1	T	9	G40
P/2015 M2	2015 07 14.45165	20 57 50.229	−20 27 15.67	20.0	T	F51	
P/2015 M2	2015 07 14.46254	20 57 50.006	−20 27 17.09	19.8	T	F51	
P/2015 M2	2015 07 14.47368	20 57 49.727	−20 27 18.47	20.1	T	F51	
P/2015 M2	2015 07 19.47339	20 55 50.370	−20 37 43.70	19.9	T	F51	
P/2015 M2	2015 07 19.48484	20 55 50.072	−20 37 45.24	20.0	T	F51	
P/2015 M2	2015 07 19.49047	20 55 49.938	−20 37 46.04	19.5	T	F52	
P/2015 M2	2015 07 19.49623	20 55 49.782	−20 37 46.68	19.8	T	F51	
P/2015 M2	2015 07 19.50207	20 55 49.628	−20 37 47.42	19.6	T	F52	
P/2015 M2	2015 07 19.50760	20 55 49.491	−20 37 48.09	20.0	T	F51	
P/2015 M2	2015 07 19.51369	20 55 49.345	−20 37 48.84	19.5	T	F52	
P/2015 M2	2015 07 19.52559	20 55 49.033	−20 37 50.43	20.0	T	F52	
P/2015 M2	2015 07 21.33426	20 55 04.11	−20 41 38.8	19.1	T	G45	
P/2015 M2	2015 07 21.34463	20 55 03.86	−20 41 40.1	18.9	T	G45	
P/2015 M2	2015 07 21.34905	20 55 03.69	−20 41 40.5	18.9	T	G45	
P/2015 M2	2015 07 21.35359	20 55 03.57	−20 41 41.2	18.8	T	G45	
P/2015 M2	2015 07 21.35366	20 55 03.58	−20 41 41.1	18.9	T	G45	
P/2015 M2	2015 07 25.41248	20 53 20.259	−20 50 11.32	19.7	T	F51	
P/2015 M2	2015 07 25.42361	20 53 19.958	−20 50 12.66	19.9	T	F51	
P/2015 M2	2015 07 25.43454	20 53 19.670	−20 50 14.11	19.9	T	F51	
P/2015 M2	2015 07 25.44615	20 53 19.350	−20 50 15.68	20.0	T	F51	
P/2015 M2	2015 08 10.38023	20 46 19.301	−21 21 59.36	19.7	T	F51	
P/2015 M2	2015 08 10.40219	20 46 18.696	−21 22 01.33	20.0	T	F51	
P/2015 M2	2015 08 10.41319	20 46 18.411	−21 22 03.00	20.0	T	F51	
P/2015 M2	2015 08 11.33069	20 45 54.556	−21 23 43.72	19.7	T	F51	
P/2015 M2	2015 08 11.35264	20 45 53.982	−21 23 45.92	19.7	T	F51	
P/2015 M2	2015 08 11.36361	20 45 53.689	−21 23 47.17	19.8	T	F51	
P/2015 M2	2015 08 12.95020	20 45 12.52	−21 26 38.0	19.3	T	K	215
P/2015 M2	2015 08 12.95147	20 45 12.48	−21 26 38.2	19.3	T	K	215
P/2015 M2	2015 08 12.95274	20 45 12.51	−21 26 39.0	17.5	T	K	215
P/2015 M2	2015 08 15.51325	20 44 07.35	−21 31 03.6	19.0	N	K	E07
P/2015 M2	2015 08 15.52194	20 44 07.14	−21 31 04.7	18.9	N	K	E07
P/2015 M2	2015 08 22.45984	20 41 18.82	−21 42 03.0	18.7	N	474	
P/2015 M2	2015 08 22.48275	20 41 18.31	−21 42 04.8	18.9	N	474	
P/2015 M2	2015 08 22.49177	20 41 18.10	−21 42 05.7	19.2	N	474	
P/2015 M2	2015 08 25.42131	20 40 11.80	−21 46 13.4	19.8	N	K	474
P/2015 M2	2015 08 25.42483	20 40 11.71	−21 46 13.4	19.5	N	K	474
P/2015 M2	2015 08 25.44481	20 40 11.26	−21 46 15.0	19.2	N	K	474
P/2015 M2	2015 08 25.44833	20 40 11.18	−21 46 15.4	19.4	N	K	474

C/2015 M3 (PANSTARRS)

C/2015 M3	2015 06 29.42977	18 14 32.621	+50 21 27.85	20.1	T	F51	
C/2015 M3	2015 06 29.44334	18 14 31.999	+50 21 21.00	20.2	T	F51	
C/2015 M3	2015 06 29.47047	18 14 30.748	+50 21 07.03	20.0	T	F51	
C/2015 M3	2015 06 29.98027	18 14 08.17	+50 16 42.1			K	J95
C/2015 M3	2015 06 29.98725	18 14 07.87	+50 16 38.6			K	J95
C/2015 M3	2015 06 29.99429	18 14 07.54	+50 16 34.8	20.5	T	K	J95
C/2015 M3	2015 06 30.45943	18 13 46.818	+50 12 31.42	19.9	T	F51	
C/2015 M3	2015 06 30.47305	18 13 46.191	+50 12 24.16	19.8	T	F51	
C/2015 M3	2015 07 05.14444	18 10 24.10	+49 27 28.7	19.7	T	K	H36
C/2015 M3	2015 07 05.15320	18 10 23.70	+49 27 23.0	19.8	T	K	H36
C/2015 M3	2015 07 05.18809	18 10 22.20	+49 27 02.1	19.6	T	K	H36
C/2015 M3	2015 07 05.20553	18 10 21.51	+49 26 52.4	19.4	T	K	H36
C/2015 M3	2015 07 05.92513	18 09 51.24	+49 19 16.7			K	J95
C/2015 M3	2015 07 05.93362	18 09 50.88	+49 19 11.6			K	J95
C/2015 M3	2015 07 05.94250	18 09 50.51	+49 19 06.1	19.7	T	K	J95
C/2015 M3	2015 07 06.85231	18 09 12.81	+49 09 17.7	20.0	T	K	106
C/2015 M3	2015 07 06.85833	18 09 12.62	+49 09 14.6	19.4	T	K	106
C/2015 M3	2015 07 06.86436	18 09 12.41	+49 09 10.5	19.1	T	K	106
C/2015 M3	2015 07 06.91389	18 09 10.31	+49 08 36.5	20.0	T	K	958
C/2015 M3	2015 07 06.91862	18 09 10.13	+49 08 35.6	19.0	T	K	J01
C/2015 M3	2015 07 06.92456	18 09 09.78	+49 08 31.0	20.0	T	K	958

C/2015 M3	2015 07 06.92938	18 09 09.67	+49 08 28.4	19.0 T	K	J01
C/2015 M3	2015 07 06.94013	18 09 09.21	+49 08 21.5	19.0 T	K	J01
C/2015 M3	2015 07 06.94709	18 09 08.75	+49 08 15.1	19.9 T	K	958
C/2015 M3	2015 07 06.96827	18 09 07.95	+49 08 02.8	20.0 T	K	I93
C/2015 M3	2015 07 06.98009	18 09 07.46	+49 07 55.2	20.1 T	K	I93
C/2015 M3	2015 07 06.99194	18 09 06.98	+49 07 47.2	19.8 T	K	I93
C/2015 M3	2015 07 07.25530	18 08 56.25	+49 04 53.4		5	U69
C/2015 M3	2015 07 07.25795	18 08 56.15	+49 04 51.6		5	U69
C/2015 M3	2015 07 07.26059	18 08 56.05	+49 04 49.9	19.0 T	5	U69
C/2015 M3	2015 07 07.86582	18 08 31.43	+48 58 05.0	19.6 T	K	595
C/2015 M3	2015 07 07.87765	18 08 30.94	+48 57 57.6		K	595
C/2015 M3	2015 07 07.88948	18 08 30.39	+48 57 49.1		K	595
C/2015 M3	2015 07 07.92554	18 08 28.99	+48 57 26.3	19.9 T	9	G40
C/2015 M3	2015 07 07.92874	18 08 28.80	+48 57 23.6		9	G40
C/2015 M3	2015 07 08.26502	18 08 15.19	+48 53 34.4	19.7 T		703
C/2015 M3	2015 07 08.27013	18 08 14.88	+48 53 31.8	20.0 T		703
C/2015 M3	2015 07 08.27524	18 08 14.69	+48 53 27.3	19.7 T		703
C/2015 M3	2015 07 08.28033	18 08 14.45	+48 53 25.2	20.6 T		703
C/2015 M3	2015 07 08.39981	18 08 09.55	+48 52 03.3	20.0 T	K	291
C/2015 M3	2015 07 08.40573	18 08 09.32	+48 51 59.4	20.0 T	K	291
C/2015 M3	2015 07 08.41163	18 08 09.09	+48 51 55.1	20.1 T	K	291
C/2015 M3	2015 07 08.95268	18 07 47.65	+48 45 41.1	20.2 T	K	958
C/2015 M3	2015 07 08.96371	18 07 47.23	+48 45 33.5	20.6 T	K	958
C/2015 M3	2015 07 08.97003	18 07 46.96	+48 45 30.8	20.0 T	9	G40
C/2015 M3	2015 07 08.97474	18 07 46.65	+48 45 25.6	20.0 T	K	958
C/2015 M3	2015 07 08.97827	18 07 46.65	+48 45 24.1		9	G40
C/2015 M3	2015 07 09.01262	18 07 45.12	+48 45 00.0	19.9 T		B74
C/2015 M3	2015 07 09.01879	18 07 44.87	+48 44 55.6	19.9 T		B74
C/2015 M3	2015 07 09.02652	18 07 44.59	+48 44 50.2	20.0 T		B74
C/2015 M3	2015 07 09.28464	18 07 34.38	+48 41 50.6	20.1 T		926
C/2015 M3	2015 07 09.29854	18 07 33.83	+48 41 40.9	20.1 T		926
C/2015 M3	2015 07 09.31611	18 07 33.08	+48 41 28.7	20.1 T		926
C/2015 M3	2015 07 09.98440	18 07 06.79	+48 33 34.1	19.2 T	K	B82
C/2015 M3	2015 07 09.99335	18 07 06.46	+48 33 28.7	19.2 T	K	B82
C/2015 M3	2015 07 09.99931	18 07 06.25	+48 33 24.4	19.0 T	K	B82
C/2015 M3	2015 07 10.00976	18 07 05.82	+48 33 16.2	19.2 T	K	B82
C/2015 M3	2015 07 10.02468	18 07 05.22	+48 33 05.9	19.5 T	K	B82
C/2015 M3	2015 07 10.03960	18 07 04.59	+48 32 54.9	19.2 T	K	B82
C/2015 M3	2015 07 10.89815	18 06 31.50	+48 22 34.4	19.1 T	K	106
C/2015 M3	2015 07 10.90418	18 06 31.20	+48 22 28.9	19.5 T	K	106
C/2015 M3	2015 07 10.90580	18 06 31.14	+48 22 28.2	19.7 T	K	C77
C/2015 M3	2015 07 10.91020	18 06 31.03	+48 22 25.7	19.2 T	K	106
C/2015 M3	2015 07 10.91560	18 06 30.85	+48 22 23.4	19.2 T	K	C23
C/2015 M3	2015 07 10.92007	18 06 30.65	+48 22 18.2	19.4 T	K	C77
C/2015 M3	2015 07 10.92164	18 06 30.67	+48 22 19.2	19.1 T	K	C23
C/2015 M3	2015 07 10.92751	18 06 30.42	+48 22 14.6	19.0 T	K	C23
C/2015 M3	2015 07 10.93329	18 06 30.22	+48 22 10.9	18.8 T	K	C23
C/2015 M3	2015 07 10.93429	18 06 30.12	+48 22 08.0	19.5 T	K	C77
C/2015 M3	2015 07 10.93906	18 06 30.07	+48 22 06.0	19.0 T	K	C23
C/2015 M3	2015 07 10.97393	18 06 28.54	+48 21 38.7	20.4 T	K	B82
C/2015 M3	2015 07 10.98886	18 06 27.89	+48 21 27.3	19.4 T	K	B82
C/2015 M3	2015 07 11.00454	18 06 27.30	+48 21 16.1	19.1 T	K	B82
C/2015 M3	2015 07 11.01872	18 06 26.76	+48 21 05.8	19.4 T	K	B82
C/2015 M3	2015 07 11.02134	18 06 26.62	+48 21 04.0	19.8 T	K	104
C/2015 M3	2015 07 11.03037	18 06 26.27	+48 20 56.7	19.7 T	K	104
C/2015 M3	2015 07 11.03365	18 06 26.18	+48 20 54.5	18.9 T	K	B82
C/2015 M3	2015 07 11.04858	18 06 25.54	+48 20 43.7	19.4 T	K	B82
C/2015 M3	2015 07 11.06351	18 06 25.01	+48 20 32.6	19.9 T	K	B82
C/2015 M3	2015 07 11.20015	18 06 19.93	+48 18 52.6	19.8 T	K	H36
C/2015 M3	2015 07 11.203240	18 06 19.78	+48 18 50.4	20.1 T	K	H21
C/2015 M3	2015 07 11.203787	18 06 19.75	+48 18 49.9	20.1 T	K	H21
C/2015 M3	2015 07 11.22960	18 06 18.77	+48 18 31.0	19.6 T	K	H36
C/2015 M3	2015 07 11.24432	18 06 18.20	+48 18 20.1	19.7 T	K	H36
C/2015 M3	2015 07 11.85147	18 05 55.22	+48 10 48.4	19.9 T	K	L04
C/2015 M3	2015 07 11.86450	18 05 54.79	+48 10 38.9	20.0 T	K	L04
C/2015 M3	2015 07 11.95927	18 05 51.28	+48 09 29.7	19.0 T	K	C23
C/2015 M3	2015 07 11.96510	18 05 50.87	+48 09 22.9	20.1 T	K	B82
C/2015 M3	2015 07 11.96649	18 05 51.07	+48 09 24.7	19.3 T	K	C23
C/2015 M3	2015 07 11.97372	18 05 50.70	+48 09 18.7	19.0 T	K	C23
C/2015 M3	2015 07 11.97928	18 05 50.35	+48 09 12.6	20.0 T	K	B82
C/2015 M3	2015 07 11.98450	18 05 50.11	+48 09 08.4	21.3 T		033
C/2015 M3	2015 07 11.99413	18 05 49.75	+48 09 01.3	21.3 T		033
C/2015 M3	2015 07 11.99421	18 05 49.75	+48 09 01.2	19.5 T	K	B82
C/2015 M3	2015 07 12.00914	18 05 49.16	+48 08 50.0	19.5 T	K	B82
C/2015 M3	2015 07 12.01735	18 05 48.83	+48 08 43.5	19.5 T		B82
C/2015 M3	2015 07 12.02407	18 05 48.56	+48 08 39.1	19.5 T	K	B82
C/2015 M3	2015 07 12.02780	18 05 48.37	+48 08 36.1	20.1 T		B82
C/2015 M3	2015 07 12.03228	18 05 48.32	+48 08 33.1	20.3 T		B82
C/2015 M3	2015 07 12.32767	18 05 37.20	+48 04 50.2	19.6 T	K	291
C/2015 M3	2015 07 12.33521	18 05 36.93	+48 04 44.4	19.5 T	K	291
C/2015 M3	2015 07 12.34273	18 05 36.66	+48 04 38.6	19.5 T	K	291
C/2015 M3	2015 07 13.20991	18 05 04.75	+47 53 34.1	19.9 T	K	H36
C/2015 M3	2015 07 13.24510	18 05 03.44	+47 53 06.9	19.4 T	K	H36
C/2015 M3	2015 07 13.25390	18 05 03.12	+47 53 00.1	19.7 T	K	H36
C/2015 M3	2015 07 15.94594	18 03 28.06	+47 17 07.2	19.2 T	K	215
C/2015 M3	2015 07 15.94785	18 03 28.01	+47 17 06.1	19.4 T	K	215
C/2015 M3	2015 07 15.94976	18 03 27.96	+47 17 04.8	19.6 T	K	215
C/2015 M3	2015 07 16.96324	18 02 53.90	+47 03 01.0	19.4 N		B82
C/2015 M3	2015 07 16.97823	18 02 53.43	+47 02 48.3	19.5 N		B82
C/2015 M3	2015 07 16.98422	18 02 53.18	+47 02 43.5	19.5 N		B82
C/2015 M3	2015 07 17.89588	18 02 23.44	+46 49 48.1	19.2 N	K	157
C/2015 M3	2015 07 17.90639	18 02 23.12	+46 49 39.2	19.4 N	K	157
C/2015 M3	2015 07 22.01910	18 00 19.56	+45 48 26.4	19.3 N	K	B82
C/2015 M3	2015 07 22.02019	18 00 19.51	+45 48 25.5	19.1 N	K	B82
C/2015 M3	2015 07 22.02128	18 00 19.45	+45 48 24.3	19.4 N	K	B82
C/2015 M3	2015 08 06.85805	17 55 25.63	+41 13 22.5	19.2 N	K	157
C/2015 M3	2015 08 06.86856	17 55 25.49	+41 13 10.6	19.0 N	K	157

C/2015 O1 (PANSTARRS)

C/2015 O1	2015 07 19.47014	20 37 14.003	−25 09 55.75	19.6 T		F51
C/2015 O1	2015 07 19.48149	20 37 13.518	−25 09 56.04	19.7 T		F51
C/2015 O1	2015 07 19.49288	20 37 13.045	−25 09 56.42	19.6 T		F51
C/2015 O1	2015 07 19.50426	20 37 12.566	−25 09 56.88	19.6 T		F51
C/2015 O1	2015 07 20.54072	20 36 29.36	−25 10 28.3	18.6 T	2	Q62
C/2015 O1	2015 07 20.54200	20 36 29.30	−25 10 29.1	19.1 T	2	Q62
C/2015 O1	2015 07 20.57407	20 36 27.96	−25 10 29.6	18.5 T		474

C/2015 O1	2015 07 20.57698	20 36 27.85	−25 10 29.7	18.5	T	474
C/2015 O1	2015 07 20.58247	20 36 27.60	−25 10 29.8	18.5	T	474
C/2015 O1	2015 07 20.721574	20 36 21.72	−25 10 34.3	19.0	T	Q64
C/2015 O1	2015 07 20.724621	20 36 21.59	−25 10 34.4	19.0	T	Q64
C/2015 O1	2015 07 20.727667	20 36 21.46	−25 10 34.4	19.0	T	Q64
C/2015 O1	2015 07 20.98845	20 36 10.67	−25 10 43.8	19.5	T	K I93
C/2015 O1	2015 07 21.01317	20 36 09.55	−25 10 44.5	19.0	T	K I93
C/2015 O1	2015 07 21.01715	20 36 09.36	−25 10 44.5	18.7	T	K 958
C/2015 O1	2015 07 21.02989	20 36 08.90	−25 10 45.0	19.1	T	K I93
C/2015 O1	2015 07 21.03490	20 36 08.68	−25 10 45.6	18.5	T	K 958
C/2015 O1	2015 07 21.04335	20 36 08.29	−25 10 45.3	18.6	T	K 958
C/2015 O1	2015 07 21.11971	20 36 05.23	−25 10 46.8	19.1	T	Y00
C/2015 O1	2015 07 21.12476	20 36 04.94	−25 10 46.7	18.5	T	KW96
C/2015 O1	2015 07 21.12780	20 36 04.75	−25 10 48.2	19.8	T	Y00
C/2015 O1	2015 07 21.13643	20 36 04.36	−25 10 47.0	19.4	T	Y00
C/2015 O1	2015 07 21.14936	20 36 03.90	−25 10 47.7	18.8	T	KW96
C/2015 O1	2015 07 21.18850	20 36 02.24	−25 10 48.9	18.5	T	KW96
C/2015 O1	2015 07 21.29539	20 35 57.72	−25 10 52.4	18.4	T	KW96
C/2015 O1	2015 07 21.31982	20 35 56.50	−25 10 52.8	18.3	T	KW96
C/2015 O1	2015 07 21.38566	20 35 53.90	−25 10 54.5	18.5	T	G32
C/2015 O1	2015 07 21.38959	20 35 53.72	−25 10 54.8	18.7	T	G32
C/2015 O1	2015 07 21.39699	20 35 53.46	−25 10 55.0	19.0	T	G32
C/2015 O1	2015 07 21.55579	20 35 46.77	−25 10 59.2	18.3	T	474
C/2015 O1	2015 07 21.55860	20 35 46.67	−25 10 59.4	18.3	T	474
C/2015 O1	2015 07 21.56212	20 35 46.51	−25 10 59.4	18.4	T	474
C/2015 O1	2015 07 21.94256	20 35 30.55	−25 11 12.5	19.2	T	K62
C/2015 O1	2015 07 21.94574	20 35 30.45	−25 11 12.2	18.5	T	K62
C/2015 O1	2015 07 21.94887	20 35 30.38	−25 11 13.2	18.0	T	K62
C/2015 O1	2015 07 21.95508	20 35 30.12	−25 11 12.0	18.6	T	K62
C/2015 O1	2015 07 24.43748	20 33 44.985	−25 12 19.79	19.2	T	F51
C/2015 O1	2015 07 24.44780	20 33 44.542	−25 12 19.96	19.2	T	F51
C/2015 O1	2015 07 24.45811	20 33 44.096	−25 12 20.29	19.4	T	F51
C/2015 O1	2015 07 24.46843	20 33 43.655	−25 12 20.54	19.4	T	F51
C/2015 O1	2015 07 25.08777	20 33 17.38	−25 12 36.2	19.0	T	Y00
C/2015 O1	2015 07 25.09592	20 33 16.99	−25 12 36.7	19.4	T	Y00
C/2015 O1	2015 07 25.10399	20 33 16.63	−25 12 35.8	18.8	T	Y00
C/2015 O1	2015 07 27.50359	20 31 34.17	−25 13 30.8	18.5	N	; Q62
C/2015 O1	2015 07 27.50443	20 31 34.15	−25 13 29.8	19.2	N	; Q62
C/2015 O1	2015 07 27.50528	20 31 34.18	−25 13 30.8	18.4	N	; Q62
C/2015 O1	2015 07 28.67615	20 30 43.85	−25 13 53.4			1 Q62
C/2015 O1	2015 07 28.67781	20 30 43.76	−25 13 53.4	18.4	T	1 Q62
C/2015 O1	2015 08 08.38655	20 23 03.153	−25 15 40.59	19.3	T	F51
C/2015 O1	2015 08 08.39687	20 23 02.689	−25 15 40.61	19.2	T	F51
C/2015 O1	2015 08 08.40722	20 23 02.258	−25 15 40.60	19.2	T	F51
C/2015 O1	2015 08 08.41748	20 23 01.801	−25 15 40.44	19.1	T	F51
C/2015 O1	2015 08 09.38602	20 22 20.368	−25 15 39.42	19.5	T	F51
C/2015 O1	2015 08 09.39628	20 22 19.920	−25 15 39.46	19.4	T	F51
C/2015 O1	2015 08 09.40666	20 22 19.483	−25 15 39.50	19.3	T	F51
C/2015 O1	2015 08 09.41694	20 22 19.029	−25 15 39.43	19.3	T	F51
C/2015 O1	2015 08 12.93943	20 19 49.25	−25 15 20.5	18.7	T	K 215
C/2015 O1	2015 08 12.94134	20 19 49.22	−25 15 20.3	18.6	T	K 215
C/2015 O1	2015 08 12.94325	20 19 49.19	−25 15 20.1	18.3	T	K 215
C/2015 O1	2015 08 15.44453	20 18 04.11	−25 14 49.0			1 Q62
C/2015 O1	2015 08 15.44579	20 18 04.05	−25 14 48.8			1 Q62
C/2015 O1	2015 08 15.44704	20 18 04.00	−25 14 48.4	17.4	T	1 Q62
C/2015 O1	2015 08 18.55856	20 15 54.91	−25 13 53.5	18.1	N	; Q62
C/2015 O1	2015 08 18.55957	20 15 54.84	−25 13 53.6	18.6	N	; Q62
C/2015 O1	2015 08 18.56052	20 15 54.80	−25 13 53.8	18.3	N	; Q62
C/2015 O1	2015 08 18.56154	20 15 54.76	−25 13 53.5	18.6	N	; Q62
C/2015 O1	2015 08 20.00192	20 14 55.91	−25 13 21.2	19.2	T	Y00
C/2015 O1	2015 08 20.01160	20 14 55.51	−25 13 21.7	19.0	T	Y00
C/2015 O1	2015 08 20.02127	20 14 55.04	−25 13 20.2	18.9	T	Y00
C/2015 O1	2015 08 21.91590	20 13 38.49	−25 12 31.6	18.5	N	K K25
C/2015 O1	2015 08 21.94132	20 13 37.45	−25 12 31.2	19.1	N	K K25
C/2015 O1	2015 08 22.44166	20 13 17.38	−25 12 15.1	18.5	N	474
C/2015 O1	2015 08 22.44898	20 13 17.09	−25 12 15.0	18.7	N	474
C/2015 O1	2015 08 22.45499	20 13 16.85	−25 12 14.8	18.3	N	474

C/2015 P3 (SWAN)

C/2015 P3	2015 08 09.38326	12 24 21.72	+12 05 09.1	13.5	T	E00
C/2015 P3	2015 08 09.39375	12 24 24.99	+12 03 55.6	13.2	T	E00
C/2015 P3	2015 08 09.40301	12 24 28.07	+12 02 59.3	13.3	T	E00
C/2015 P3	2015 08 09.84692	12 26 28.16	+11 13 58.7	16.5	T	K 958
C/2015 P3	2015 08 09.85214	12 26 29.56	+11 13 24.5	16.6	T	K 958
C/2015 P3	2015 08 09.85725	12 26 30.94	+11 12 50.0	16.6	T	K 958
C/2015 P3	2015 08 09.86258	12 26 32.35	+11 12 16.1	16.5	T	K 958
C/2015 P3	2015 08 09.95887	12 26 58.58	+11 01 54.4	13.5	T	K I47
C/2015 P3	2015 08 09.96418	12 26 59.93	+11 01 19.1	13.5	T	K I47
C/2015 P3	2015 08 09.96870	12 27 01.14	+11 00 47.7	14.7	T	W95
C/2015 P3	2015 08 09.96977	12 27 01.40	+11 00 41.3	13.5	T	K I47
C/2015 P3	2015 08 09.97054	12 27 01.57	+11 00 34.3	14.9	T	W96
C/2015 P3	2015 08 09.97472	12 27 02.72	+11 00 07.2	14.9	T	W96
C/2015 P3	2015 08 09.97593	12 27 03.08	+11 00 01.6	14.6	T	W95
C/2015 P3	2015 08 09.97912	12 27 03.87	+10 59 35.6	15.0	T	W96
C/2015 P3	2015 08 09.98232	12 27 04.79	+10 59 17.7	14.7	T	W95
C/2015 P3	2015 08 09.98352	12 27 05.10	+10 59 08.3	15.0	T	W96
C/2015 P3	2015 08 09.98798	12 27 06.28	+10 58 39.3	14.9	T	W96
C/2015 P3	2015 08 09.99237	12 27 07.49	+10 58 08.5	14.9	T	W96
C/2015 P3	2015 08 10.12453	12 27 43.03	+10 43 28.4			32H06
C/2015 P3	2015 08 10.12546	12 27 43.28	+10 43 22.7			32H06
C/2015 P3	2015 08 10.12639	12 27 43.53	+10 43 17.1			32H06
C/2015 P3	2015 08 10.12731	12 27 43.81	+10 43 11.5	11.9	T	32H06
C/2015 P3	2015 08 10.25315	12 28 17.583	+10 29 19.54	16.4	T	F51
C/2015 P3	2015 08 10.25364	12 28 17.734	+10 29 16.29	16.0	T	F51
C/2015 P3	2015 08 10.35608	12 28 45.41	+10 18 06.5	13.8	T	Q60
C/2015 P3	2015 08 10.35688	12 28 45.64	+10 18 01.4	13.8	T	Q60
C/2015 P3	2015 08 10.35770	12 28 45.82	+10 17 56.2	13.9	T	Q60
C/2015 P3	2015 08 10.35807	12 28 45.91	+10 17 53.4			1 Q62
C/2015 P3	2015 08 10.35850	12 28 46.03	+10 17 50.7	14.0	T	Q60
C/2015 P3	2015 08 10.35931	12 28 46.23	+10 17 45.2	13.9	T	Q60
C/2015 P3	2015 08 10.35973	12 28 46.36	+10 17 42.5			1 Q62
C/2015 P3	2015 08 10.36026	12 28 46.51	+10 17 39.1	13.8	T	25Q62
C/2015 P3	2015 08 10.36140	12 28 46.79	+10 17 31.8			1 Q62
C/2015 P3	2015 08 10.36176	12 28 46.87	+10 17 29.5	14.0	T	25Q62
C/2015 P3	2015 08 10.36310	12 28 47.26	+10 17 20.3	12.3	T	1 Q62
C/2015 P3	2015 08 10.36333	12 28 47.32	+10 17 18.7	15.3	T	; Q62

C/2015 P3	2015 08 10.36436	12 28 47.49	+10 17 12.9	15.4	T	; Q62
C/2015 P3	2015 08 10.36522	12 28 47.85	+10 17 06.0	15.3	T	; Q62
C/2015 P3	2015 08 10.36624	12 28 48.11	+10 16 59.5	14.0	T	; Q62
C/2015 P3	2015 08 10.36632	12 28 48.09	+10 16 59.0	14.0	T	25Q62
C/2015 P3	2015 08 10.36978	12 28 48.99	+10 16 36.1	16.5	T	0 Q62
C/2015 P3	2015 08 10.37210	12 28 49.65	+10 16 21.0	16.9	T	0 Q62
C/2015 P3	2015 08 10.37413	12 28 50.25	+10 16 07.0	15.3	T	; Q62
C/2015 P3	2015 08 10.82343	12 30 50.16	+09 26 14.2	17.0	N	K A71
C/2015 P3	2015 08 10.82982	12 30 51.93	+09 25 30.2	16.7	N	K A71
C/2015 P3	2015 08 10.85446	12 30 58.34	+09 22 47.3	16.6	T	K 958
C/2015 P3	2015 08 10.85969	12 30 59.76	+09 22 12.9	16.6	T	K 958
C/2015 P3	2015 08 10.87072	12 31 02.69	+09 20 59.7	16.2	T	K 958
C/2015 P3	2015 08 10.89841	12 31 09.99	+09 18 06.0	15.7	T	Y00
C/2015 P3	2015 08 10.89930	12 31 10.23	+09 18 00.1	15.8	T	Y00
C/2015 P3	2015 08 10.90020	12 31 10.47	+09 17 54.6	15.7	T	Y00
C/2015 P3	2015 08 10.90115	12 31 10.75	+09 17 48.1	15.7	T	Y00
C/2015 P3	2015 08 10.90205	12 31 10.99	+09 17 42.3	15.7	T	Y00
C/2015 P3	2015 08 10.90297	12 31 11.22	+09 17 36.0	15.7	T	Y00
C/2015 P3	2015 08 10.92157	12 31 16.20	+09 15 32.9	15.5	T	K I39
C/2015 P3	2015 08 10.92444	12 31 17.02	+09 15 15.2	15.5	T	K I39
C/2015 P3	2015 08 10.96445	12 31 27.62	+09 10 46.9	15.0	T	W96
C/2015 P3	2015 08 10.96863	12 31 28.64	+09 10 19.4	15.1	T	W96
C/2015 P3	2015 08 10.97303	12 31 29.73	+09 09 49.9	15.0	T	W96
C/2015 P3	2015 08 10.97744	12 31 30.89	+09 09 21.8	15.1	T	W96
C/2015 P3	2015 08 10.98184	12 31 32.04	+09 08 52.0	14.9	T	W96
C/2015 P3	2015 08 10.98624	12 31 33.25	+09 08 23.2	14.9	T	W96
C/2015 P3	2015 08 10.99064	12 31 34.29	+09 07 49.6	14.8	T	W96
C/2015 P3	2015 08 10.99504	12 31 35.59	+09 07 23.1	14.9	T	W96
C/2015 P3	2015 08 10.99943	12 31 36.67	+09 06 54.3	15.1	T	W96
C/2015 P3	2015 08 11.00383	12 31 38.06	+09 06 26.1	14.8	T	W96
C/2015 P3	2015 08 11.35311	12 33 10.22	+08 27 40.3	14.8	N	; Q62
C/2015 P3	2015 08 11.35400	12 33 10.48	+08 27 33.8	14.7	N	; Q62
C/2015 P3	2015 08 11.35490	12 33 10.66	+08 27 29.2	14.7	N	; Q62
C/2015 P3	2015 08 11.35578	12 33 10.87	+08 27 22.5	14.8	N	; Q62
C/2015 P3	2015 08 11.35666	12 33 11.15	+08 27 16.9	14.7	N	; Q62
C/2015 P3	2015 08 11.36254	12 33 12.63	+08 26 37.6			1 Q62
C/2015 P3	2015 08 11.36399	12 33 12.99	+08 26 28.0			1 Q62
C/2015 P3	2015 08 11.36531	12 33 13.31	+08 26 19.1			1 Q62
C/2015 P3	2015 08 11.36663	12 33 13.67	+08 26 10.4	12.3	T	1 Q62
C/2015 P3	2015 08 11.37008	12 33 14.62	+08 25 46.7	15.3	N	3 Q62
C/2015 P3	2015 08 11.37655	12 33 16.27	+08 25 03.7	15.5	N	3 Q62
C/2015 P3	2015 08 11.83380	12 35 16.13	+07 34 02.1	15.9	N	K A77
C/2015 P3	2015 08 11.84169	12 35 18.26	+07 33 05.5	15.8	N	K A77
C/2015 P3	2015 08 12.84044	12 39 36.00	+05 41 45.3	15.4	N	K A77
C/2015 P3	2015 08 12.84376	12 39 36.84	+05 41 24.2	15.3	N	K A77
C/2015 P3	2015 08 12.84705	12 39 37.66	+05 41 02.0	15.4	N	K A77
C/2015 P3	2015 08 12.89659	12 39 50.53	+05 35 35.6	15.6	T	Y00
C/2015 P3	2015 08 12.89719	12 39 50.63	+05 35 31.2	15.6	T	Y00
C/2015 P3	2015 08 12.89780	12 39 50.85	+05 35 27.2	15.6	T	Y00
C/2015 P3	2015 08 12.97719	12 40 11.25	+05 26 37.3	16.4	N	G39
C/2015 P3	2015 08 12.97802	12 40 11.39	+05 26 31.8	16.8	N	G39
C/2015 P3	2015 08 12.97927	12 40 11.76	+05 26 23.3	16.8	N	G39
C/2015 P3	2015 08 12.98052	12 40 12.05	+05 26 15.4	16.7	N	G39
C/2015 P3	2015 08 12.98177	12 40 12.42	+05 26 07.5	16.8	N	G39
C/2015 P3	2015 08 12.98302	12 40 12.76	+05 25 58.6	16.7	N	G39
C/2015 P3	2015 08 13.37766	12 41 53.07	+04 41 50.9	15.8	N	; Q62
C/2015 P3	2015 08 13.37847	12 41 53.27	+04 41 45.3	15.9	N	; Q62
C/2015 P3	2015 08 13.37928	12 41 53.50	+04 41 39.9	15.9	N	; Q62
C/2015 P3	2015 08 13.38009	12 41 53.66	+04 41 34.8	15.8	N	; Q62
C/2015 P3	2015 08 13.38090	12 41 53.85	+04 41 29.1	15.9	N	; Q62
C/2015 P3	2015 08 14.45576	12 46 23.92	+02 41 12.9			K 367
C/2015 P3	2015 08 14.45859	12 46 24.64	+02 40 53.4			K 367
C/2015 P3	2015 08 14.46143	12 46 25.31	+02 40 34.9			K 367
C/2015 P3	2015 08 14.46427	12 46 26.02	+02 40 15.9	12.7	T	K 367
C/2015 P3	2015 08 15.86988	12 52 11.84	+00 03 44.3	15.8	N	9 G40
C/2015 P3	2015 08 15.87076	12 52 12.08	+00 03 38.5	15.9	N	9 G40
C/2015 P3	2015 08 15.87170	12 52 12.31	+00 03 32.9	15.8	N	9 G40
C/2015 P3	2015 08 16.86131	12 56 11.27	−01 45 58.3	15.9	N	9 G40
C/2015 P3	2015 08 16.86215	12 56 11.45	−01 46 04.5	15.9	N	9 G40
C/2015 P3	2015 08 16.86301	12 56 11.61	−01 46 10.6	15.8	N	9 G40
C/2015 P3	2015 08 16.86388	12 56 11.84	−01 46 15.5	15.9	N	9 G40
C/2015 P3	2015 08 16.86477	12 56 12.06	−01 46 22.2	15.8	N	9 G40
C/2015 P3	2015 08 17.86049	13 00 08.92	−03 35 41.1	16.0	N	9 G40
C/2015 P3	2015 08 17.86134	13 00 09.09	−03 35 46.8	15.9	N	9 G40
C/2015 P3	2015 08 17.86220	13 00 09.27	−03 35 52.0	15.9	N	9 G40
C/2015 P3	2015 08 17.86306	13 00 09.48	−03 35 58.0	15.9	N	9 G40
C/2015 P3	2015 08 17.86394	13 00 09.69	−03 36 03.5	16.0	N	9 G40
C/2015 P3	2015 08 24.38375	13 24 49.00	−14 56 23.7	16.0	N	; Q62
C/2015 P3	2015 08 24.38462	13 24 49.32	−14 56 30.5	15.8	N	; Q62
C/2015 P3	2015 08 24.38559	13 24 49.54	−14 56 35.2	16.1	N	; Q62
C/2015 P3	2015 08 24.38655	13 24 49.76	−14 56 41.9	16.0	N	; Q62
C/2015 P3	2015 08 24.38747	13 24 49.97	−14 56 48.0	15.9	N	; Q62
C/2015 P3	2015 08 25.31562	13 28 12.79	−16 27 07.1	18.0	N	474
C/2015 P3	2015 08 25.31663	13 28 13.01	−16 27 13.2	17.9	N	474
C/2015 P3	2015 08 25.31763	13 28 13.16	−16 27 18.8	17.8	N	474
C/2015 P3	2015 08 25.31863	13 28 13.40	−16 27 24.7	17.9	N	474
C/2015 P3	2015 08 25.31964	13 28 13.60	−16 27 30.1	17.7	N	474

P/2015 P4 (PANSTARRS)

P/2015 P4	2015 07 24.54456	23 40 32.931	−12 03 17.45	21.6	T	F51
P/2015 P4	2015 07 24.55704	23 40 33.104	−12 03 19.58	21.7	T	F51
P/2015 P4	2015 07 24.56947	23 40 33.271	−12 03 22.12	21.7	T	F51
P/2015 P4	2015 08 14.49513	23 41 43.451	−13 37 36.71	21.1	T	F51
P/2015 P4	2015 08 14.50740	23 41 43.317	−13 37 40.81	21.0	T	F51
P/2015 P4	2015 08 14.51963	23 41 43.199	−13 37 44.76	21.1	T	F51
P/2015 P4	2015 08 14.53189	23 41 43.063	−13 37 48.89	21.0	T	F51
P/2015 P4	2015 08 16.294358	23 41 25.58	−13 47 47.5	20.7	T	K H21
P/2015 P4	2015 08 16.304309	23 41 25.46	−13 47 51.2	20.9	T	K H21
P/2015 P4	2015 08 16.315017	23 41 25.29	−13 47 54.6	20.8	T	K H21
P/2015 P4	2015 08 19.03426	23 40 51.42	−14 03 41.0	20.6	T	K 958
P/2015 P4	2015 08 19.05197	23 40 51.27	−14 03 48.7	20.1	T	K 958
P/2015 P4	2015 08 19.24132	23 40 48.57	−14 04 50.3	19.8	T	KW96
P/2015 P4	2015 08 19.26156	23 40 48.27	−14 04 57.4	19.7	T	KW96
P/2015 P4	2015 08 19.28809	23 40 47.81	−14 05 07.0	19.6	T	KW96
P/2015 P4	2015 08 19.30725	23 40 47.55	−14 05 14.0	19.6	T	KW96
P/2015 P4	2015 08 19.326618	23 40 47.42	−14 05 24.3	19.7	T	H01

P/2015 P4	2015 08 19.333675	23 40 47.31	−14 05 26.8	19.9	T	H01
P/2015 P4	2015 08 19.340042	23 40 47.20	−14 05 29.5	19.7	T	H01
P/2015 P4	2015 08 19.347396	23 40 47.08	−14 05 31.8	19.8	T	H01
P/2015 P4	2015 08 19.36524	23 40 46.83	−14 05 38.0			K 291
P/2015 P4	2015 08 19.37273	23 40 46.72	−14 05 40.4			K 291
P/2015 P4	2015 08 19.38025	23 40 46.60	−14 05 43.3			K 291
P/2015 P4	2015 08 21.46080	23 40 14.686	−14 18 06.06	20.7	T	F51
P/2015 P4	2015 08 21.47304	23 40 14.450	−14 18 10.39	20.9	T	F51
P/2015 P4	2015 08 21.48531	23 40 14.228	−14 18 14.88	21.0	T	F51
P/2015 P4	2015 08 21.49754	23 40 14.000	−14 18 19.35	20.9	T	F51
P/2015 P4	2015 08 26.03972	23 38 48.97	−14 45 56.1	19.4	T	K 215
P/2015 P4	2015 08 26.04164	23 38 48.95	−14 45 56.7	19.6	T	K 215
P/2015 P4	2015 08 26.04355	23 38 48.93	−14 45 57.5	19.7	T	K 215

P/2015 Q1 (Scotti)

P/2015 Q1	2015 08 18.45786	04 14 32.11	+17 57 15.2	18.9	T	691
P/2015 Q1	2015 08 18.47195	04 14 34.15	+17 57 08.6	18.9	T	691
P/2015 Q1	2015 08 18.48605	04 14 36.15	+17 57 01.9	18.9	T	691
P/2015 Q1	2015 08 18.76785	04 15 17.32	+17 54 56.5			1 Q62
P/2015 Q1	2015 08 18.77166	04 15 17.88	+17 54 54.5			1 Q62
P/2015 Q1	2015 08 18.80133	04 15 22.15	+17 54 41.4			1 Q62
P/2015 Q1	2015 08 18.80608	04 15 22.77	+17 54 39.2	18.0	T	1 Q62
P/2015 Q1	2015 08 19.04725	04 15 57.92	+17 52 37.9	18.6	T	K C10
P/2015 Q1	2015 08 19.05513	04 15 59.19	+17 52 34.2	18.5	T	K C10
P/2015 Q1	2015 08 19.08467	04 16 03.28	+17 52 20.5	18.4	T	K C10
P/2015 Q1	2015 08 19.09367	04 16 04.76	+17 52 16.1	19.2	T	K 958
P/2015 Q1	2015 08 19.10249	04 16 06.05	+17 52 12.2	19.2	T	K 958
P/2015 Q1	2015 08 19.10630	04 16 06.44	+17 52 10.2	18.7	T	K C10
P/2015 Q1	2015 08 19.11131	04 16 07.32	+17 52 08.4	19.1	T	K 958
P/2015 Q1	2015 08 19.33443	04 16 39.69	+17 50 28.6	18.8	T	KW96
P/2015 Q1	2015 08 19.35278	04 16 42.41	+17 50 19.2	18.9	T	KW96
P/2015 Q1	2015 08 19.36451	04 16 44.01	+17 50 15.0	18.7	T	KW96
P/2015 Q1	2015 08 19.440255	04 16 55.06	+17 49 32.8	18.3	T	H01
P/2015 Q1	2015 08 19.44241	04 16 55.43	+17 49 32.1	18.3	T	K 291
P/2015 Q1	2015 08 19.44993	04 16 56.51	+17 49 28.5	18.1	T	K 291
P/2015 Q1	2015 08 19.451624	04 16 56.71	+17 49 27.4	18.3	T	H01
P/2015 Q1	2015 08 19.45743	04 16 57.58	+17 49 24.9			K 291
P/2015 Q1	2015 08 19.461168	04 16 58.07	+17 49 22.9	18.3	T	H01
P/2015 Q1	2015 08 19.47356	04 16 59.85	+17 49 17.2	18.3	T	19H06
P/2015 Q1	2015 08 19.47756	04 17 00.40	+17 49 15.6	18.4	T	19H06
P/2015 Q1	2015 08 20.05663	04 18 24.24	+17 44 32.9	18.9	N	K A77
P/2015 Q1	2015 08 20.06006	04 18 24.76	+17 44 31.6	18.7	N	K A77
P/2015 Q1	2015 08 20.45874	04 19 22.51	+17 41 16.2			K 291
P/2015 Q1	2015 08 20.46626	04 19 23.60	+17 41 12.6			K 291
P/2015 Q1	2015 08 20.47378	04 19 24.67	+17 41 08.9			K 291
P/2015 Q1	2015 08 24.37182	04 28 42.71	+17 06 42.1	18.5	N	KW96
P/2015 Q1	2015 08 24.38146	04 28 43.99	+17 06 37.1	18.2	N	KW96
P/2015 Q1	2015 08 26.09395	04 32 45.81	+16 49 55.2	18.4	T	K 215
P/2015 Q1	2015 08 26.09587	04 32 46.08	+16 49 54.1	18.2	T	K 215
P/2015 Q1	2015 08 26.09780	04 32 46.36	+16 49 53.0	18.2	T	K 215
P/2015 Q1	2015 08 26.90091	04 34 39.06	+16 41 49.4	19.9	N	N55
P/2015 Q1	2015 08 26.90257	04 34 39.34	+16 41 48.7	19.6	N	N55
P/2015 Q1	2015 08 26.90421	04 34 39.51	+16 41 47.8	20.1	N	N55

2P/Encke

2P	2015 07 23.50632	23 30 17.078	−01 22 41.01	20.2	T	F51
2P	2015 07 23.51847	23 30 16.720	−01 22 42.43	20.2	T	F51
2P	2015 07 23.53059	23 30 16.360	−01 22 43.77	20.3	T	F51
2P	2015 07 23.54274	23 30 16.011	−01 22 45.16	20.3	T	F51
2P	2015 07 28.79029	23 27 32.69	−01 34 11.6	20.5	T	D29
2P	2015 07 28.80704	23 27 32.08	−01 34 14.1	20.4	T	D29
2P	2015 07 28.82380	23 27 31.50	−01 34 17.0	21.0	T	D29
2P	2015 07 30.47650	23 26 34.321	−01 38 29.22	19.8	T	F51
2P	2015 07 30.48836	23 26 33.890	−01 38 31.05	19.7	T	F51
2P	2015 07 30.50021	23 26 33.461	−01 38 32.99	19.7	T	F51
2P	2015 07 30.51211	23 26 33.018	−01 38 34.77	20.1	T	F51
2P	2015 08 09.36293	23 19 56.47	−02 09 31.7	19.8	T	G45
2P	2015 08 09.36896	23 19 56.21	−02 09 33.6	20.4	T	G45
2P	2015 08 09.37496	23 19 55.92	−02 09 34.8	20.7	T	G45
2P	2015 08 09.37502	23 19 55.90	−02 09 35.1	20.0	T	G45
2P	2015 08 09.38109	23 19 55.63	−02 09 36.6	20.4	T	G45
2P	2015 08 13.02443	23 17 06.73	−02 23 27.5	19.4	T	K 215
2P	2015 08 13.02570	23 17 06.69	−02 23 27.4	19.8	T	K 215
2P	2015 08 13.02698	23 17 06.67	−02 23 27.7	19.2	T	K 215
2P	2015 08 13.36340	23 16 50.46	−02 24 46.9	20.1	T	G45
2P	2015 08 13.36957	23 16 50.18	−02 24 48.4	20.3	T	G45
2P	2015 08 13.37553	23 16 49.86	−02 24 50.2	20.2	T	G45
2P	2015 08 13.38121	23 16 49.59	−02 24 50.9	20.6	T	G45
2P	2015 08 14.36007	23 16 02.09	−02 28 48.2	20.3	T	G45
2P	2015 08 14.36533	23 16 01.86	−02 28 49.6	20.3	T	G45
2P	2015 08 14.37557	23 16 01.32	−02 28 51.9	20.1	T	G45
2P	2015 08 14.38308	23 16 00.98	−02 28 53.7	20.2	T	G45
2P	2015 08 15.36649	23 15 12.51	−02 32 57.3	20.4	T	G45
2P	2015 08 15.37154	23 15 12.26	−02 32 57.8	20.1	T	G45
2P	2015 08 15.37899	23 15 11.85	−02 32 59.6	20.6	T	G45
2P	2015 08 15.38394	23 15 11.60	−02 33 00.5	19.9	T	G45
2P	2015 08 17.59094	23 13 20.27	−02 42 20.5	20.4	T	Q60
2P	2015 08 17.60057	23 13 19.75	−02 42 22.8	20.1	T	Q60
2P	2015 08 17.61020	23 13 19.26	−02 42 25.9	20.2	T	Q60
2P	2015 08 21.28057	23 10 06.80	−02 58 51.8	19.9	T	691
2P	2015 08 21.29940	23 10 05.79	−02 58 56.7	20.3	T	691
2P	2015 08 21.31821	23 10 04.77	−02 59 02.1	20.3	T	691

6P/d'Arrest

6P	2015 07 18.75786	04 16 26.20	+05 17 56.9	15.3	T	349
6P	2015 07 18.76404	04 16 26.85	+05 17 56.4			349
6P	2015 07 26.77287	04 30 34.10	+05 12 55.0			349
6P	2015 07 26.77767	04 30 34.55	+05 12 53.8	16.0	T	349

7P/Pons-Winnecke

7P	2015 07 05.20417	02 20 21.65	−09 16 03.8	18.7	N	9 G40
7P	2015 07 05.21415	02 20 22.40	−09 16 04.6	18.7	N	9 G40
7P	2015 07 09.33275	02 25 39.39	−09 19 14.5	16.9	N	KW96
7P	2015 07 09.35859	02 25 41.02	−09 19 15.0	17.9	N	KW96
7P	2015 07 23.34470	02 40 55.57	−09 50 32.0	18.4	N	KW96
7P	2015 07 23.36910	02 40 56.87	−09 50 35.3	18.2	N	KW96
7P	2015 07 27.94066	02 44 57.95	−10 07 36.5	19	T	C51

Geocentric position (km) + 4974.1927 + 4657.6051 − 880.1754

7P	2015 07 28.07182	02 45 04.46	−10 08 09.7			C51
Geocentric position (km)	+ 4963.5093	+ 4675.4160	− 845.0877			
7P	2015 07 28.20298	02 45 10.98	−10 08 41.7			C51
Geocentric position (km)	+ 4952.6365	+ 4693.0806	− 809.9480			
7P	2015 07 28.20311	02 45 10.97	−10 08 42.4			C51
Geocentric position (km)	+ 4952.7260	+ 4678.1183	− 892.4365			
7P	2015 07 28.33427	02 45 17.34	−10 09 14.8			C51
Geocentric position (km)	+ 4942.0121	+ 4695.9247	− 857.3480			
7P	2015 07 28.46542	02 45 23.79	−10 09 45.0			C51
Geocentric position (km)	+ 4931.1092	+ 4713.5676	− 822.2996			
7P	2015 07 28.53100	02 45 26.95	−10 10 01.7			C51
Geocentric position (km)	+ 4925.5872	+ 4722.3312	− 804.7728			
7P	2015 07 28.53113	02 45 26.98	−10 10 01.7			C51
Geocentric position (km)	+ 4925.8083	+ 4707.4198	− 887.2386			
7P	2015 07 28.72787	02 45 36.50	−10 10 51.4			C51
Geocentric position (km)	+ 4909.4815	+ 4733.9157	− 834.7834			
7P	2015 07 28.79344	02 45 39.72	−10 11 08.0			C51
Geocentric position (km)	+ 4903.9487	+ 4742.6795	− 817.2595			
7P	2015 07 28.85902	02 45 42.88	−10 11 25.2			C51
Geocentric position (km)	+ 4898.3647	+ 4751.3881	− 799.7956			
7P	2015 07 28.85915	02 45 42.87	−10 11 24.9			C51
Geocentric position (km)	+ 4898.7154	+ 4736.5215	− 882.2692			
7P	2015 07 28.92473	02 45 46.12	−10 11 42.9			C51
Geocentric position (km)	+ 4893.2620	+ 4745.3456	− 864.8347			
7P	2015 07 29.18705	02 45 58.68	−10 12 48.2			C51
Geocentric position (km)	+ 4870.9732	+ 4780.2524	− 795.0214			
7P	2015 07 29.18717	02 45 58.59	−10 12 48.3			C51
Geocentric position (km)	+ 4871.4512	+ 4765.4298	− 877.5026			
7P	2015 07 29.31833	02 46 04.83	−10 13 22.0			C51
Geocentric position (km)	+ 4860.3713	+ 4782.9520	− 842.6343			
7P	2015 08 10.38810	02 53 48.90	−11 15 33.8	17.1	N	KW96
7P	2015 08 10.42111	02 53 49.54	−11 15 47.0	18.3	N	KW96
7P	2015 08 17.13809	02 56 26.36	−11 59 02.9	18.6	N	J22
7P	2015 08 17.14002	02 56 26.49	−11 59 03.6	18.6	N	J22
7P	2015 08 26.08412	02 57 54.18	−13 04 16.6	19.0	T	K 215
7P	2015 08 26.08606	02 57 54.18	−13 04 17.5	18.9	T	K 215
7P	2015 08 26.08799	02 57 54.20	−13 04 18.6	19.0	T	K 215

10P/Tempel

10P	2015 05 10.61357	14 21 34.13	+07 33 37.5	17.6	T	D95
10P	2015 05 10.61649	14 21 33.98	+07 33 37.8			D95
10P	2015 05 10.62087	14 21 33.67	+07 33 38.9			D95
10P	2015 06 04.88446	14 00 03.75	+07 21 45.6	16.7	T	17 I89
10P	2015 06 04.88556	14 00 03.70	+07 21 44.9			17 I89
10P	2015 06 08.86596	13 58 03.51	+07 01 52.7	16.8	T	3 095
10P	2015 06 08.86767	13 58 03.46	+07 01 52.1			3 095
10P	2015 06 08.93896	13 58 01.50	+07 01 27.4	17.3	N	585
10P	2015 06 08.93968	13 58 01.48	+07 01 27.5	17.2	N	585
10P	2015 06 08.94038	13 58 01.44	+07 01 27.0	17.3	N	585
10P	2015 06 08.94109	13 58 01.42	+07 01 26.6	17.3	N	585
10P	2015 06 08.94179	13 58 01.43	+07 01 26.3	17.2	N	585
10P	2015 06 08.94325	13 58 01.39	+07 01 26.5	17.2	N	585
10P	2015 06 08.94396	13 58 01.35	+07 01 26.1	17.2	N	585
10P	2015 06 08.94466	13 58 01.35	+07 01 25.7	17.3	N	585
10P	2015 06 08.94537	13 58 01.28	+07 01 25.9	17.3	N	585
10P	2015 06 27.86895	13 55 34.82	+04 29 38.5	17.6	N	K 160
10P	2015 06 27.87138	13 55 34.85	+04 29 37.0	17.8	N	K 160
10P	2015 06 27.87380	13 55 34.88	+04 29 35.5	17.8	N	K 160
10P	2015 06 29.88837	13 56 01.61	+04 08 39.9	17.6	N	K 160
10P	2015 06 29.89084	13 56 01.64	+04 08 38.3	17.7	N	K 160
10P	2015 06 29.89331	13 56 01.68	+04 08 36.7	17.6	N	K 160
10P	2015 06 29.94612	13 56 02.58	+04 08 02.7	16.7	N	C23
10P	2015 06 29.94901	13 56 02.51	+04 08 00.4	17.0	N	C23
10P	2015 06 29.95479	13 56 02.59	+04 07 56.9	16.6	N	C23
10P	2015 06 30.90811	13 56 18.20	+03 57 46.5	17.6	N	K 160
10P	2015 06 30.91043	13 56 18.22	+03 57 44.8	17.7	N	K 160
10P	2015 06 30.91275	13 56 18.25	+03 57 42.9	17.7	N	K 160
10P	2015 07 01.87897	13 56 35.93	+03 47 13.0	17.3	N	K 160
10P	2015 07 01.88144	13 56 35.98	+03 47 11.5	17.3	N	K 160
10P	2015 07 01.88392	13 56 36.03	+03 47 09.7	17.2	N	K 160
10P	2015 07 01.95295	13 56 37.27	+03 46 24.5	17.4	T	K 215
10P	2015 07 01.95422	13 56 37.30	+03 46 23.2	17.4	T	K 215
10P	2015 07 01.95550	13 56 37.33	+03 46 22.3	17.5	T	K 215
10P	2015 07 02.87669	13 56 56.06	+03 36 11.5	17.8	N	K 160
10P	2015 07 02.87945	13 56 56.11	+03 36 09.6	17.9	N	K 160
10P	2015 07 02.88221	13 56 56.16	+03 36 07.8	17.9	N	K 160
10P	2015 07 04.88501	13 57 42.36	+03 13 28.0	17.5	N	K 160
10P	2015 07 04.88743	13 57 42.42	+03 13 26.1	17.7	N	K 160
10P	2015 07 04.88986	13 57 42.50	+03 13 24.2	17.2	N	K 160
10P	2015 07 06.87224	13 58 35.89	+02 50 17.5	17.5	N	K 160
10P	2015 07 06.87469	13 58 35.96	+02 50 15.8	17.5	N	K 160
10P	2015 07 06.87715	13 58 36.02	+02 50 13.8	17.6	N	K 160
10P	2015 07 08.92770	13 59 39.15	+02 25 38.3	17.2	N	I72
10P	2015 07 08.92914	13 59 39.18	+02 25 37.6	17.2	N	I72
10P	2015 07 08.93059	13 59 39.22	+02 25 36.1	17.2	N	I72
10P	2015 07 09.91089	14 00 12.21	+02 13 35.9	16.7	N	C23
10P	2015 07 09.91456	14 00 12.39	+02 13 33.2	16.7	N	C23
10P	2015 07 09.91895	14 00 12.57	+02 13 30.0	17.0	N	C23
10P	2015 07 10.87890	14 00 46.62	+02 01 36.7	17.4	N	K 160
10P	2015 07 10.88140	14 00 46.71	+02 01 34.7	17.5	N	K 160
10P	2015 07 10.88388	14 00 46.82	+02 01 32.7	17.1	N	B82
10P	2015 07 10.88404	14 00 46.80	+02 01 32.6	17.4	N	K 160
10P	2015 07 10.88986	14 00 47.05	+02 01 28.0	16.9	N	B82
10P	2015 07 10.89436	14 00 47.25	+02 01 24.7	16.9	N	B82
10P	2015 07 10.89793	14 00 47.34	+02 01 22.2	16.7	N	J01
10P	2015 07 10.90153	14 00 47.50	+02 01 19.3	17.5	N	J01
10P	2015 07 10.90512	14 00 47.59	+02 01 16.9	16.9	N	J01
10P	2015 07 11.43922	14 01 07.53	+01 54 40.2	17	T	C51
Geocentric position (km)	− 6098.9097	− 3160.7785	+ 138.7479			
10P	2015 07 11.47260	14 01 08.67	+01 54 11.9	16.8	T	349
10P	2015 07 11.48186	14 01 08.99	+01 54 05.2			349
10P	2015 07 11.57038	14 01 12.44	+01 53 01.6			C51
Geocentric position (km)	− 6089.8410	− 3179.8228	+ 98.1332			
10P	2015 07 11.70154	14 01 17.40	+01 51 22.8			C51
Geocentric position (km)	− 6080.5042	− 3198.7208	+ 57.5785			

10P	2015 07 11.83282	14 01 22.41	+01 49 43.4			C51
Geocentric position (km)	− 6075.2828	− 3207.4930	+ 100.1591			
10P	2015 07 11.87622	14 01 23.84	+01 49 06.3	17.7	N K	160
10P	2015 07 11.87865	14 01 23.93	+01 49 04.4	17.9	N K	160
10P	2015 07 11.88108	14 01 24.02	+01 49 02.4	17.9	N K	160
10P	2015 07 11.89775	14 01 24.61	+01 48 50.1	17.2	N	939
10P	2015 07 11.89840	14 01 24.92	+01 48 53.8			C51
Geocentric position (km)	− 6070.6120	− 3216.9280	+ 79.9712			
10P	2015 07 11.90366	14 01 24.89	+01 48 45.8	17.2	N	939
10P	2015 07 11.90956	14 01 25.16	+01 48 41.5	17.1	N	939
10P	2015 07 11.96398	14 01 27.43	+01 48 03.9			C51
Geocentric position (km)	− 6065.8791	− 3226.3336	+ 59.7670			
10P	2015 07 12.02956	14 01 29.96	+01 47 14.6			C51
Geocentric position (km)	− 6061.0717	− 3235.7015	+ 39.5510			
10P	2015 07 12.09527	14 01 32.48	+01 46 24.5			C51
Geocentric position (km)	− 6060.6126	− 3235.0550	+ 102.5114			
10P	2015 07 12.16085	14 01 35.04	+01 45 34.6			C51
Geocentric position (km)	− 6055.9063	− 3244.4678	+ 82.3591			
10P	2015 07 12.29200	14 01 40.16	+01 43 55.3			C51
Geocentric position (km)	− 6046.3010	− 3263.1928	+ 42.0430			
10P	2015 07 12.55445	14 01 50.46	+01 40 34.9			C51
Geocentric position (km)	− 6031.4196	− 3290.5852	+ 44.7966			
10P	2015 07 12.90914	14 02 04.43	+01 35 59.7	17.1	N	J38
10P	2015 07 12.91128	14 02 04.53	+01 35 57.9	17.0	N	J38
10P	2015 07 12.91342	14 02 04.59	+01 35 56.5	17.0	N	J38
10P	2015 07 12.94527	14 02 05.82	+01 35 32.4	17.3	N	I72
10P	2015 07 12.94670	14 02 05.88	+01 35 30.9	17.4	N	I72
10P	2015 07 17.86426	14 05 46.32	+00 31 00.8	17.8	N K	160
10P	2015 07 17.86661	14 05 46.42	+00 30 59.0	17.8	N K	160
10P	2015 07 17.86894	14 05 46.51	+00 30 57.2	17.6	N K	160
10P	2015 07 18.87863	14 06 37.21	+00 17 18.9	16.2	T 17	I89
10P	2015 07 18.89391	14 06 38.00	+00 17 06.6	16.9	N 17	I89
10P	2015 07 19.82975	14 07 26.73	+00 04 19.8	17.4	N K	160
10P	2015 07 19.83249	14 07 26.85	+00 04 18.3	17.5	N K	160
10P	2015 07 19.83528	14 07 26.99	+00 04 16.2	17.3	N K	160
10P	2015 07 19.88408	14 07 29.60	+00 03 35.8	16.4	N	C23
10P	2015 07 19.88626	14 07 29.71	+00 03 34.4	16.4	N	C23
10P	2015 07 19.89065	14 07 30.00	+00 03 30.1	16.3	N	C23
10P	2015 07 20.84163	14 08 21.03	−00 09 33.9	17.8	N K	160
10P	2015 07 20.84410	14 08 21.16	−00 09 36.1	17.8	N K	160
10P	2015 07 20.84617	14 08 21.27	−00 09 37.9	17.8	N K	160
10P	2015 07 22.46516	14 09 52.04	−00 32 02.2	16.8	N	30D90
10P	2015 07 22.46992	14 09 52.30	−00 32 05.9	16.8	N	30D90
10P	2015 07 22.47470	14 09 52.57	−00 32 09.8	16.8	N	30D90
10P	2015 07 25.88281	14 13 18.70	−01 20 37.7	16.9	N K	C23
10P	2015 07 25.88570	14 13 18.77	−01 20 42.2	17.0	N K	C23
10P	2015 07 25.88858	14 13 18.97	−01 20 44.5	16.9	N K	C23
10P	2015 07 28.84874	14 16 33.89	−02 03 43.1	17.5	N K	160
10P	2015 07 28.85120	14 16 34.06	−02 03 45.3	17.6	N K	160
10P	2015 07 28.85366	14 16 34.23	−02 03 47.5	17.6	N K	160
10P	2015 07 29.85326	14 17 43.40	−02 18 29.8	17.8	N K	160
10P	2015 07 29.85589	14 17 43.56	−02 18 32.2	17.6	N K	160
10P	2015 07 29.85865	14 17 43.74	−02 18 34.7	16.7	N K	160
10P	2015 07 30.05390	14 17 57.48	−02 21 27.5			I15
10P	2015 07 30.05683	14 17 57.65	−02 21 30.4			I15
10P	2015 07 30.05976	14 17 57.88	−02 21 33.1			I15
10P	2015 07 30.86164	14 18 54.80	−02 33 25.3	17.5	N K	160
10P	2015 07 30.86443	14 18 55.00	−02 33 28.0	17.9	N K	160
10P	2015 07 30.86720	14 18 55.26	−02 33 30.8	17.6	N K	160
10P	2015 08 01.34931	14 20 43.45	−02 55 30.1	17.0	N	Q68
10P	2015 08 01.36268	14 20 44.38	−02 55 41.3	16.9	N	Q68
10P	2015 08 04.37173	14 24 34.74	−03 41 08.8	17.5	N	Q68
10P	2015 08 04.39328	14 24 36.39	−03 41 28.5	17.4	N	Q68
10P	2015 08 04.84998	14 25 12.60	−03 48 33.1	16.9	N	939
10P	2015 08 04.85380	14 25 12.89	−03 48 36.7	17.0	N	939
10P	2015 08 04.85762	14 25 13.20	−03 48 40.2	17.0	N	939
10P	2015 08 05.86421	14 26 34.40	−04 04 03.9	16.7	N	K C23
10P	2015 08 05.86991	14 26 34.76	−04 04 08.8	16.8	N	K C23
10P	2015 08 05.87424	14 26 35.10	−04 04 14.5	17.5	N	K C23
10P	2015 08 06.42265	14 27 19.99	−04 12 32.3	17.3	N	Q68
10P	2015 08 06.44617	14 27 21.92	−04 12 53.5	17.4	N	Q68
10P	2015 08 06.45277	14 27 22.45	−04 12 59.9	17.2	N	Q68
10P	2015 08 06.83526	14 27 54.15	−04 18 58.9	17.7	N K	160
10P	2015 08 06.83808	14 27 54.36	−04 19 02.6	17.8	N K	160
10P	2015 08 06.84090	14 27 54.57	−04 19 06.0	17.1	N K	160
10P	2015 08 07.36043	14 28 37.97	−04 26 59.4	17.4	N	Q68
10P	2015 08 07.37246	14 28 39.03	−04 27 10.0	17.2	N	Q68
10P	2015 08 07.82936	14 29 17.36	−04 34 21.1	16.7	N K	160
10P	2015 08 07.83214	14 29 17.55	−04 34 24.5	17.7	N K	160
10P	2015 08 07.83492	14 29 17.84	−04 34 27.1	17.5	N K	160
10P	2015 08 08.36322	14 30 02.81	−04 42 30.7	16.9	N	Q68
10P	2015 08 08.37372	14 30 03.69	−04 42 40.3	17.1	N	Q68
10P	2015 08 09.42382	14 31 34.20	−04 59 00.1	16.9	N	30D90
10P	2015 08 09.42858	14 31 34.64	−04 59 04.7	16.9	N	30D90
10P	2015 08 09.43333	14 31 35.03	−04 59 09.2	16.9	N	30D90
10P	2015 08 10.35246	14 32 55.85	−05 13 30.4	17.1	N	Q68
10P	2015 08 10.36045	14 32 56.56	−05 13 37.8	17.1	N	Q68
10P	2015 08 10.45233	14 33 04.55	−05 15 03.5	17.0	N	Q68
10P	2015 08 11.84150	14 35 09.34	−05 36 58.2	17.2	N K	160
10P	2015 08 11.84399	14 35 09.57	−05 37 00.6	18.1	N K	160
10P	2015 08 11.84679	14 35 09.86	−05 37 02.3	17.7	N K	160
10P	2015 08 12.82226	14 36 39.35	−05 52 25.2	17.4	N K	160
10P	2015 08 12.82471	14 36 39.55	−05 52 28.2	17.6	N K	160
10P	2015 08 12.82715	14 36 39.73	−05 52 29.4	16.6	N K	160
10P	2015 08 16.37059	14 42 17.42	−06 48 38.2	16.9	N	Q68
10P	2015 08 16.41011	14 42 21.22	−06 49 16.4	16.8	N	Q68
10P	2015 08 18.37684	14 45 37.22	−07 20 44.4	17.0	N	Q68
10P	2015 08 18.38488	14 45 37.99	−07 20 52.3	16.8	N	Q68
10P	2015 08 20.37763	14 49 02.67	−07 52 54.0	17.1	N	Q68
10P	2015 08 20.39917	14 49 04.88	−07 53 14.7	17.1	N	Q68

17P/Holmes

17P	2014 07 07.939431	03 00 37.72	+31 55 58.0	16.9	T	2 089
17P	2014 07 07.940972	03 00 37.81	+31 56 00.7	17.1	T	2 089
17P	2014 07 07.944051	03 00 38.21	+31 56 01.8	16.4	T	2 089
17P	2014 07 07.945590	03 00 38.53	+31 56 03.7	16.3	T	2 089

17P	2014 07 07.947130	03 00 38.70	+31 56 04.6	16.5	T	2	089	
17P	2014 07 07.948669	03 00 38.83	+31 56 05.9	16.6	T	2	089	
17P	2014 07 07.950208	03 00 39.06	+31 56 08.0	17.2	T	2	089	
17P	2014 07 07.951747	03 00 39.24	+31 56 08.7	16.6	T	2	089	
17P	2014 07 07.954826	03 00 39.58	+31 56 11.7	16.4	T	2	089	
17P	2014 07 07.956366	03 00 39.81	+31 56 11.8	16.3	T	2	089	
17P	2014 07 07.957905	03 00 39.97	+31 56 13.7	15.8	T	2	089	
17P	2014 07 07.959444	03 00 40.12	+31 56 14.6	15.5	T	2	089	
17P	2014 07 07.960983	03 00 40.34	+31 56 16.7	16.1	T	2	089	
17P	2014 07 07.962523	03 00 40.50	+31 56 17.3	16.0	T	2	089	
17P	2014 07 07.964062	03 00 40.68	+31 56 17.9	16.6	T	2	089	
17P	2014 07 07.967141	03 00 41.14	+31 56 20.6	16.4	T	2	089	
17P	2014 07 07.970220	03 00 41.34	+31 56 23.8	16.5	T	2	089	
17P	2014 07 07.971759	03 00 41.55	+31 56 24.6	16.0	T	2	089	
17P	2014 07 07.973299	03 00 41.76	+31 56 26.3	16.5	T	2	089	
17P	2014 07 07.974838	03 00 41.96	+31 56 27.3	16.3	T	2	089	
17P	2014 07 08.006493	03 00 45.80	+31 56 53.6	16.1	T	2	089	
17P	2014 07 08.008032	03 00 45.90	+31 56 54.9	15.7	T	2	089	
17P	2014 07 08.009571	03 00 46.07	+31 56 55.4	15.8	T	2	089	
17P	2014 07 08.011111	03 00 46.23	+31 56 57.0	16.1	T	2	089	
17P	2014 07 08.031635	03 00 48.70	+31 57 14.0	16.4	T	2	089	
17P	2014 07 08.033183	03 00 48.98	+31 57 14.8	16.6	T	2	089	
17P	2014 07 08.034722	03 00 49.05	+31 57 16.2	16.6	T	2	089	
17P	2014 07 10.963553	03 06 36.14	+32 36 23.5	17.5	T	2	089	
17P	2014 07 10.984444	03 06 38.63	+32 36 40.2	18.0	T	2	089	
17P	2014 07 10.986331	03 06 38.95	+32 36 42.1	18.1	T	2	089	
17P	2014 07 10.988217	03 06 39.16	+32 36 43.5	17.2	T	2	089	
17P	2014 07 10.990104	03 06 39.34	+32 36 44.8	16.6	T	2	089	
17P	2014 07 10.991990	03 06 39.60	+32 36 47.0	17.6	T	2	089	
17P	2014 07 10.993877	03 06 39.75	+32 36 48.0	16.6	T	2	089	
17P	2014 07 10.999510	03 06 40.49	+32 36 52.7	17.0	T	2	089	
17P	2014 07 11.001400	03 06 40.71	+32 36 53.7	17.3	T	2	089	
17P	2014 07 11.026057	03 06 43.59	+32 37 13.7	16.4	T	2	089	
17P	2014 07 11.027951	03 06 43.79	+32 37 14.8	16.3	T	2	089	
17P	2014 07 11.029838	03 06 44.05	+32 37 17.0	16.7	T	2	089	
17P	2014 07 11.031724	03 06 44.36	+32 37 18.3	16.5	T	2	089	
17P	2014 07 11.033611	03 06 44.53	+32 37 20.3	18.0	T	2	089	
17P	2014 07 11.035497	03 06 44.70	+32 37 21.9	17.8	T	2	089	

22P/Kopff

22P	2015 05 10.57418	12 24 05.64	+05 28 51.9	14.5	T		D95	
22P	2015 05 10.57741	12 24 05.55	+05 28 52.2				D95	
22P	2015 05 10.57956	12 24 05.49	+05 28 52.3				D95	
22P	2015 06 04.87844	12 22 49.72	+04 39 32.0	13.0	T	17	I89	
22P	2015 06 04.87962	12 22 49.74	+04 39 31.5	15.6	N	17	I89	
22P	2015 06 23.880026	12 34 40.34	+02 33 28.5	14.9	T	2	089	
22P	2015 06 23.884330	12 34 40.59	+02 33 27.7	13.5	T	2	089	
22P	2015 06 27.84337	12 38 24.45	+01 59 12.5	15.4	N	K	160	
22P	2015 06 27.84614	12 38 24.62	+01 59 11.0	15.4	N	K	160	
22P	2015 06 27.84890	12 38 24.80	+01 59 09.8	15.3	N	K	160	
22P	2015 06 29.86282	12 40 27.84	+01 40 48.5	16.6	N	K	160	
22P	2015 06 29.86556	12 40 28.01	+01 40 47.0	16.6	N	K	160	
22P	2015 06 29.86832	12 40 28.22	+01 40 45.7	15.3	N	K	160	
22P	2015 06 29.95664	12 40 33.85	+01 39 55.2	15.3	N		C23	
22P	2015 06 29.95889	12 40 33.69	+01 39 54.8	15.5	N		C23	
22P	2015 06 29.96114	12 40 33.75	+01 39 54.9	15.4	N		C23	
22P	2015 06 30.84853	12 41 30.35	+01 31 36.8	15.9	N	K	160	
22P	2015 06 30.85084	12 41 30.50	+01 31 35.5	15.9	N	K	160	
22P	2015 06 30.85314	12 41 30.64	+01 31 34.1	16.0	N	K	160	
22P	2015 06 30.88723	12 41 32.85	+01 31 14.4	15.6	N	K	C23	
22P	2015 06 30.89053	12 41 33.16	+01 31 14.2	15.1	N	K	C23	
22P	2015 07 01.85097	12 42 35.30	+01 22 06.2	16.0	N	K	160	
22P	2015 07 01.85327	12 42 35.45	+01 22 04.9	16.0	N	K	160	
22P	2015 07 01.85556	12 42 35.62	+01 22 03.8	15.9	N	K	160	
22P	2015 07 02.85099	12 43 41.65	+01 12 28.7	16.1	N	K	160	
22P	2015 07 02.85373	12 43 41.83	+01 12 27.1	16.1	N	K	160	
22P	2015 07 02.85647	12 43 42.00	+01 12 25.7	16.1	N	K	160	
22P	2015 07 04.87651	12 46 00.44	+00 52 33.5	16.9	N	K	160	
22P	2015 07 04.87891	12 46 00.61	+00 52 32.7	15.9	N	K	160	
22P	2015 07 04.88130	12 46 00.73	+00 52 30.4	15.6	N	K	160	
22P	2015 07 05.44657	12 46 40.59	+00 46 57.5	15.4	N	30	D90	
22P	2015 07 05.45271	12 46 41.04	+00 46 53.7	15.4	N	30	D90	
22P	2015 07 05.45733	12 46 41.33	+00 46 51.0	15.4	N	30	D90	
22P	2015 07 06.85115	12 48 21.39	+00 32 35.6	16.1	N	K	160	
22P	2015 07 06.85862	12 48 21.91	+00 32 30.8	16.9	N	K	160	
22P	2015 07 06.86611	12 48 22.41	+00 32 26.0	17.0	N	K	160	
22P	2015 07 06.89370	12 48 24.56	+00 32 09.9	15.9	N	K	C23	
22P	2015 07 06.89820	12 48 24.85	+00 32 05.9	16.3	N	K	C23	
22P	2015 07 06.90269	12 48 25.20	+00 32 03.8	16.3	N	K	C23	
22P	2015 07 10.46601	12 52 53.68	−00 05 17.7	14.1	T		349	
22P	2015 07 10.47023	12 52 53.99	−00 05 20.8				349	
22P	2015 07 10.87043	12 53 25.15	−00 09 39.5	16.7	N	K	160	
22P	2015 07 10.87220	12 53 25.45	−00 09 40.8	15.4	N		C86	
22P	2015 07 10.87290	12 53 25.34	−00 09 41.1	16.7	N	K	160	
22P	2015 07 10.87522	12 53 25.52	−00 09 43.1	16.8	N	K	160	
22P	2015 07 10.87966	12 53 25.92	−00 09 45.2	15.3	N		C86	
22P	2015 07 10.88116	12 53 26.01	−00 09 45.8	15.3	N		C86	
22P	2015 07 10.88495	12 53 26.38	−00 09 48.5	14.8	N		J01	
22P	2015 07 10.88796	12 53 26.66	−00 09 50.5	16.4	N		J01	
22P	2015 07 10.89098	12 53 26.83	−00 09 51.9	15.3	N		J01	
22P	2015 07 10.89777	12 53 27.33	−00 09 56.1	16.3	N	9	G40	
22P	2015 07 10.91158	12 53 28.39	−00 10 05.1	16.4	N	9	G40	
22P	2015 07 10.93238	12 53 29.99	−00 10 18.4	16.4	N	9	G40	
22P	2015 07 11.50831	12 54 15.50	−00 16 31.9			K	D81	
22P	2015 07 11.51722	12 54 16.19	−00 16 37.3			K	D81	
22P	2015 07 11.52586	12 54 16.83	−00 16 43.3			K	D81	
22P	2015 07 11.53512	12 54 17.55	−00 16 48.9	15.0	T	K	D81	
22P	2015 07 11.86112	12 54 43.49	−00 20 23.4	17.0	N	K	160	
22P	2015 07 11.86385	12 54 43.71	−00 20 25.2	17.1	N	K	160	
22P	2015 07 11.86659	12 54 43.91	−00 20 26.9	17.1	N	K	160	
22P	2015 07 11.90070	12 54 46.73	−00 20 49.4	16.2	N	K	C23	
22P	2015 07 11.90385	12 54 47.04	−00 20 51.9	15.7	N	K	C23	
22P	2015 07 11.90933	12 54 47.37	−00 20 55.2	16.1	N	K	C23	
22P	2015 07 12.86233	12 56 03.95	−00 31 22.0	17.0	N	K	160	
22P	2015 07 12.86505	12 56 04.16	−00 31 23.9	17.0	N	K	160	
22P	2015 07 12.86779	12 56 04.48	−00 31 25.0	17.0	N	K	160	

22P	2015 07 15.49520	12 59 42.30	−01 00 45.4			K 367
22P	2015 07 15.49965	12 59 42.67	−01 00 48.1			K 367
22P	2015 07 15.50168	12 59 42.82	−01 00 49.7	14.2	T	K 367
22P	2015 07 17.85491	13 03 05.71	−01 27 49.2	16.9	N	K 160
22P	2015 07 17.85725	13 03 05.91	−01 27 50.8	17.0	N	K 160
22P	2015 07 17.86028	13 03 06.17	−01 27 52.9	17.0	N	K 160
22P	2015 07 19.82405	13 06 01.14	−01 50 52.3	16.9	N	K 160
22P	2015 07 19.82528	13 06 01.27	−01 50 52.8	16.2	N	K 160
22P	2015 07 19.82638	13 06 01.38	−01 50 53.3	15.9	N	K 160
22P	2015 07 20.41030	13 06 54.37	−01 57 42.0	15.3	N	30D90
22P	2015 07 20.41644	13 06 54.93	−01 57 46.5	15.3	N	30D90
22P	2015 07 20.42260	13 06 55.49	−01 57 50.8	15.3	N	30D90
22P	2015 07 20.83297	13 07 32.94	−02 02 50.1	17.0	N	K 160
22P	2015 07 20.83557	13 07 33.18	−02 02 52.0	17.0	N	K 160
22P	2015 07 20.83804	13 07 33.41	−02 02 54.0	17.0	N	K 160
22P	2015 07 21.01544	13 07 49.97	−02 04 54.4	16.8	T	Y00
22P	2015 07 21.02473	13 07 50.78	−02 05 01.6	16.7	T	Y00
22P	2015 07 21.03380	13 07 51.70	−02 05 07.8	16.8	T	Y00
22P	2015 07 25.89335	13 15 32.95	−03 04 22.4	16.1	N	K C23
22P	2015 07 25.89635	13 15 33.20	−03 04 27.2	16.0	N	K C23
22P	2015 07 26.42563	13 16 25.25	−03 10 54.8	15.4	N	30D90
22P	2015 07 26.43041	13 16 25.73	−03 10 58.1	15.4	N	30D90
22P	2015 07 26.43516	13 16 26.17	−03 11 01.7	15.4	N	30D90
22P	2015 07 28.84006	13 20 27.03	−03 41 20.5	15.5	N	K 160
22P	2015 07 28.84253	13 20 27.20	−03 41 22.6	16.9	N	K 160
22P	2015 07 28.84459	13 20 27.49	−03 41 23.8	17.2	N	K 160
22P	2015 07 29.84475	13 22 09.71	−03 54 06.5	17.3	N	K 160
22P	2015 07 29.84721	13 22 09.96	−03 54 08.3	17.5	N	K 160
22P	2015 07 29.84996	13 22 10.17	−03 54 09.1	16.8	N	K 160
22P	2015 07 29.96242	13 22 22.05	−03 55 30.8	16.7	T	Y00
22P	2015 07 29.97216	13 22 22.97	−03 55 38.1	16.5	T	Y00
22P	2015 07 29.98135	13 22 23.77	−03 55 45.0	16.5	T	Y00
22P	2015 07 30.83309	13 23 51.91	−04 06 44.6	17.3	N	K 160
22P	2015 07 30.83578	13 23 52.15	−04 06 47.0	17.2	N	K 160
22P	2015 07 30.83850	13 23 52.43	−04 06 48.6	17.1	N	K 160
22P	2015 08 01.34443	13 26 30.57	−04 26 07.2	15.2	N	Q68
22P	2015 08 01.35780	13 26 31.97	−04 26 17.1	15.2	N	Q68
22P	2015 08 01.42901	13 26 39.35	−04 27 12.8	16.3	N	K Q68
22P	2015 08 01.45272	13 26 41.86	−04 27 31.1	16.3	N	K Q68
22P	2015 08 02.87821	13 29 14.11	−04 46 08.5	15.9	N	9 G40
22P	2015 08 02.87906	13 29 14.18	−04 46 09.1	15.8	N	9 G40
22P	2015 08 02.88574	13 29 14.90	−04 46 14.4	15.7	N	9 G40
22P	2015 08 02.88660	13 29 14.99	−04 46 15.0	15.9	N	9 G40
22P	2015 08 03.36042	13 30 06.26	−04 52 21.7	15.7	N	Q68
22P	2015 08 03.37211	13 30 07.66	−04 52 31.4	15.8	N	I Q68
22P	2015 08 04.36713	13 31 55.82	−05 05 33.8	15.7	N	Q68
22P	2015 08 04.39161	13 31 58.45	−05 05 53.9	15.6	N	Q68
22P	2015 08 06.41841	13 35 42.61	−05 32 43.0	15.7	N	Q68
22P	2015 08 06.42949	13 35 43.86	−05 32 51.5	15.7	N	Q68
22P	2015 08 06.82680	13 36 28.38	−05 38 14.7	16.9	N	K 160
22P	2015 08 06.82930	13 36 28.66	−05 38 17.0	16.9	N	K 160
22P	2015 08 06.83209	13 36 28.99	−05 38 18.7			K 160
22P	2015 08 07.35625	13 37 28.12	−05 45 12.8	15.7	N	Q68
22P	2015 08 07.36698	13 37 29.32	−05 45 21.2	15.6	N	Q68
22P	2015 08 08.35909	13 39 22.00	−05 58 38.1	15.6	N	Q68
22P	2015 08 08.36970	13 39 23.10	−05 58 46.2	15.7	N	Q68
22P	2015 08 09.41213	13 41 22.67	−06 12 47.8	15.4	N	30D90
22P	2015 08 09.41569	13 41 23.06	−06 12 50.5	15.4	N	30D90
22P	2015 08 09.42047	13 41 23.64	−06 12 54.4	15.4	N	30D90
22P	2015 08 10.34926	13 43 11.31	−06 25 26.9	15.8	N	Q68
22P	2015 08 10.35728	13 43 12.33	−06 25 33.2	15.6	N	Q68
22P	2015 08 10.44437	13 43 22.37	−06 26 44.1	15.8	N	Q68
22P	2015 08 13.35116	13 49 06.21	−07 06 16.7	15.7	N	Q68
22P	2015 08 13.37590	13 49 09.26	−07 06 36.7	15.6	N	Q68
22P	2015 08 14.47593	13 51 21.86	−07 21 45.9			K 367
22P	2015 08 14.47755	13 51 22.04	−07 21 47.4			K 367
22P	2015 08 14.47876	13 51 22.20	−07 21 48.2	13.5	T	K 367
22P	2015 08 16.36368	13 55 13.00	−07 47 39.3	15.2	N	Q68
22P	2015 08 16.37378	13 55 14.34	−07 47 48.4	15.3	N	Q68
22P	2015 08 18.34959	13 59 20.43	−08 15 06.9	15.6	N	Q68
22P	2015 08 18.36986	13 59 23.01	−08 15 23.4	15.4	N	Q68
22P	2015 08 18.83633	14 00 21.76	−08 21 57.1	15.8	N	K A77
22P	2015 08 18.84233	14 00 22.56	−08 22 02.5	16.0	N	K A77
22P	2015 08 18.84833	14 00 23.40	−08 22 05.1	16.3	N	K A77
22P	2015 08 20.37443	14 03 37.40	−08 43 13.6	15.6	N	Q68
22P	2015 08 20.38691	14 03 38.98	−08 43 24.3	15.6	N	Q68
22P	2015 08 23.93334	14 11 20.99	−09 32 50.7	15.3	T	Y00
22P	2015 08 23.94283	14 11 22.09	−09 32 58.3	15.2	T	Y00
22P	2015 08 23.95237	14 11 23.30	−09 33 09.0	15.0	T	Y00

29P/Schwassmann-Wachmann

29P	2015 02 16.33721	17 38 41.97	−30 36 26.2	16.7	N	3W88
29P	2015 02 16.34059	17 38 42.13	−30 36 26.0			3W88
29P	2015 02 16.37533	17 38 43.40	−30 36 28.0			3W88
29P	2015 05 16.65978	17 51 45.18	−31 46 57.0	11.9	T	D95
29P	2015 05 16.66635	17 51 45.06	−31 46 56.6			D95
29P	2015 06 10.56141	17 40 06.35	−31 44 07.6	12.0	T	D95
29P	2015 06 10.56356	17 40 06.31	−31 44 07.5			D95
29P	2015 06 10.56787	17 40 06.19	−31 44 07.2			D95
29P	2015 07 04.02851	17 27 56.09	−31 21 07.9			3W88
29P	2015 07 04.04578	17 27 55.60	−31 21 06.4	17.0	N	3W88
29P	2015 07 04.08064	17 27 54.56	−31 21 03.5			3W88
29P	2015 07 05.28204	17 27 20.45	−31 19 24.3	17.0	N	K E94
29P	2015 07 05.32965	17 27 19.07	−31 19 20.7	16.9	N	K E94
29P	2015 07 05.42021	17 27 16.47	−31 19 13.4	17.0	N	K E94
29P	2015 07 05.45104	17 27 15.60	−31 19 10.5	17.0	N	K E94
29P	2015 07 05.53795	17 27 13.07	−31 19 03.5	17.0	N	K E94
29P	2015 07 06.70097	17 26 40.55	−31 17 24.4	17.4	N	Q68
29P	2015 07 06.75477	17 26 39.09	−31 17 20.6	17.1	N	Q68
29P	2015 07 08.58509	17 25 49.24	−31 14 42.9	17.1	N	Q68
29P	2015 07 08.72814	17 25 45.35	−31 14 29.6	17.1	N	Q68
29P	2015 07 09.37832	17 25 28.22	−31 13 32.7	16.5	N	Q68
29P	2015 07 09.43453	17 25 26.70	−31 13 27.7	16.5	N	Q68
29P	2015 07 10.50175	17 24 58.50	−31 11 52.0	17.0	N	467
29P	2015 07 10.50539	17 24 58.40	−31 11 51.7	17.0	N	467
29P	2015 07 10.50904	17 24 58.31	−31 11 51.3	17.0	N	467

29P	2015 07 11.35750	17 24 36.49	−31 10 34.1	13.4	N	E85
29P	2015 07 11.36112	17 24 36.41	−31 10 33.9	13.5	N	E85
29P	2015 07 11.36473	17 24 36.29	−31 10 33.6	13.4	N	E85
29P	2015 07 11.36834	17 24 36.20	−31 10 33.2	13.4	N	E85
29P	2015 07 11.37196	17 24 36.11	−31 10 33.0	13.4	N	E85
29P	2015 07 11.52686	17 24 32.11	−31 10 20.3	13.4	T	349
29P	2015 07 11.53867	17 24 31.79	−31 10 19.3			349
29P	2015 07 11.55932	17 24 31.32	−31 10 17.8			D81
29P	2015 07 11.55995	17 24 31.22	−31 10 17.4			D81
29P	2015 07 11.56054	17 24 31.23	−31 10 17.6			D81
29P	2015 07 11.56088	17 24 31.18	−31 10 15.6	13.5	N	467
29P	2015 07 11.56113	17 24 31.23	−31 10 17.3	13.4	T	D81
29P	2015 07 11.57351	17 24 30.85	−31 10 14.5	13.2	N	467
29P	2015 07 11.57833	17 24 30.77	−31 10 16.0	13.5	T	D95
29P	2015 07 11.57994	17 24 30.68	−31 10 13.9	13.2	N	467
29P	2015 07 11.58371	17 24 30.62	−31 10 15.6			D95
29P	2015 07 11.58587	17 24 30.56	−31 10 15.5			D95
29P	2015 07 12.27073	17 24 13.35	−31 09 10.9	14.0	N	467
29P	2015 07 12.27438	17 24 13.27	−31 09 10.4	14.0	N	467
29P	2015 07 12.27801	17 24 13.16	−31 09 10.2	13.9	N	467
29P	2015 07 12.28166	17 24 13.08	−31 09 09.7	13.9	N	467
29P	2015 07 12.28530	17 24 12.99	−31 09 09.5	13.9	N	467
29P	2015 07 12.28950	17 24 12.88	−31 09 09.0	13.4	N	E85
29P	2015 07 12.29308	17 24 12.79	−31 09 08.8	13.4	N	E85
29P	2015 07 12.29666	17 24 12.70	−31 09 08.5	13.4	N	E85
29P	2015 07 12.30382	17 24 12.52	−31 09 07.8	13.4	N	E85
29P	2015 07 12.30740	17 24 12.43	−31 09 07.4	13.5	N	E85
29P	2015 07 12.31097	17 24 12.31	−31 09 07.1	13.4	N	E85
29P	2015 07 12.31455	17 24 12.25	−31 09 06.9	13.4	N	E85
29P	2015 07 12.51970	17 24 06.95	−31 08 47.6	14.5	N	467
29P	2015 07 12.52207	17 24 06.91	−31 08 47.6	14.4	N	467
29P	2015 07 12.52446	17 24 06.87	−31 08 47.5	14.4	N	467
29P	2015 07 12.52683	17 24 06.80	−31 08 47.9	14.3	N	467
29P	2015 07 12.52921	17 24 06.75	−31 08 46.9	14.5	N	467
29P	2015 07 12.53564	17 24 06.54	−31 08 46.2	14.5	N	467
29P	2015 07 12.55862	17 24 06.00	−31 08 44.8	13.4	N	E89
29P	2015 07 12.56119	17 24 05.92	−31 08 44.4	13.4	N	E89
29P	2015 07 12.56516	17 24 05.81	−31 08 44.0	13.4	N	E89
29P	2015 07 12.56811	17 24 05.72	−31 08 43.7	13.4	N	E89
29P	2015 07 12.97300	17 23 55.74	−31 08 08.0	13.2	N	J38
29P	2015 07 12.97583	17 23 55.63	−31 08 07.8	13.3	N	J38
29P	2015 07 12.98151	17 23 55.49	−31 08 07.4	13.3	N	J38
29P	2015 07 13.24523	17 23 48.87	−31 07 41.0	13.4	N	W96
29P	2015 07 13.27292	17 23 48.38	−31 07 37.9	15.0	N	E85
29P	2015 07 13.27654	17 23 48.30	−31 07 37.4	15.0	N	E85
29P	2015 07 13.28016	17 23 48.21	−31 07 37.2	15.1	N	E85
29P	2015 07 13.28377	17 23 48.12	−31 07 36.9	15.0	N	E85
29P	2015 07 13.28738	17 23 48.00	−31 07 36.5	15.1	N	E85
29P	2015 07 13.29101	17 23 47.92	−31 07 36.0	15.1	N	E85
29P	2015 07 13.29260	17 23 47.70	−31 07 36.8	13.4	N	W96
29P	2015 07 13.30184	17 23 47.66	−31 07 35.4	15.1	N	E85
29P	2015 07 13.47226	17 23 43.35	−31 07 19.3	15.0	N	467
29P	2015 07 13.49814	17 23 42.66	−31 07 16.6	14.9	N	467
29P	2015 07 13.50191	17 23 42.60	−31 07 16.6	15.1	N	467
29P	2015 07 13.50568	17 23 42.52	−31 07 16.6	15.2	N	467
29P	2015 07 13.50946	17 23 42.45	−31 07 16.4	13.3	N	467
29P	2015 07 13.56245	17 23 41.12	−31 07 11.5	13.7	N	E89
29P	2015 07 13.56711	17 23 40.97	−31 07 10.9	13.7	N	E89
29P	2015 07 13.57086	17 23 40.93	−31 07 09.8	13.8	N	E89
29P	2015 07 13.95405	17 23 31.65	−31 06 35.9	13.6	N	J38
29P	2015 07 13.95833	17 23 31.52	−31 06 35.9	13.6	N	J38
29P	2015 07 13.96475	17 23 31.37	−31 06 35.6	13.6	N	J38
29P	2015 07 14.22652	17 23 25.00	−31 06 10.3	13.4	N	H45
29P	2015 07 14.22922	17 23 24.94	−31 06 10.1	13.3	N	H45
29P	2015 07 14.23137	17 23 24.88	−31 06 09.9	13.3	N	H45
29P	2015 07 14.23308	17 23 24.85	−31 06 09.9	12.4	T	H45
29P	2015 07 14.57541	17 23 16.53	−31 05 35.0	15.1	N	Q68
29P	2015 07 14.58393	17 23 16.31	−31 05 34.4	15.2	N	Q68
29P	2015 07 14.90218	17 23 08.83	−31 05 07.7	15.4	N	A77
29P	2015 07 14.91842	17 23 08.36	−31 05 06.3	15.3	N	A77
29P	2015 07 15.24080	17 23 00.71	−31 04 34.3	13.9	N	KW96
29P	2015 07 15.26811	17 23 00.03	−31 04 30.9	13.8	N	KW96
29P	2015 07 16.24607	17 22 37.30	−31 02 58.0	14.2	N	KW96
29P	2015 07 16.27639	17 22 36.60	−31 02 54.3	14.8	N	KW96
29P	2015 07 16.45447	17 22 32.40	−31 02 35.8	15.2	N	E94
29P	2015 07 16.50207	17 22 31.28	−31 02 31.0	15.2	N	E94
29P	2015 07 16.51480	17 22 30.96	−31 02 29.0	15.3	N	E94
29P	2015 07 16.54551	17 22 30.22	−31 02 26.0	15.4	N	E94
29P	2015 07 16.59756	17 22 28.98	−31 02 20.4	15.4	N	E94
29P	2015 07 16.99050	17 22 20.25	−31 01 43.1	15.5	N	W96
29P	2015 07 17.03652	17 22 19.28	−31 01 40.3	15.4	N	W96
29P	2015 07 17.28993	17 22 13.40	−31 01 13.2	15.7	N	E94
29P	2015 07 17.32340	17 22 12.69	−31 01 09.7	16.7	N	467
29P	2015 07 17.32716	17 22 12.59	−31 01 09.3	17.4	N	467
29P	2015 07 17.33094	17 22 12.51	−31 01 08.9	16.8	N	467
29P	2015 07 17.33471	17 22 12.42	−31 01 08.5	17.4	N	467
29P	2015 07 17.33847	17 22 12.34	−31 01 08.2	17.4	N	467
29P	2015 07 17.34225	17 22 12.26	−31 01 07.8	16.6	N	467
29P	2015 07 17.35205	17 22 12.16	−31 01 09.2	14.9	N	Q68
29P	2015 07 17.38060	17 22 11.39	−31 01 04.2	17.5	N	467
29P	2015 07 17.38437	17 22 11.29	−31 01 03.9	16.9	N	467
29P	2015 07 17.39483	17 22 11.14	−31 01 04.3	14.9	N	Q68
29P	2015 07 17.39569	17 22 11.04	−31 01 03.0	16.9	N	467
29P	2015 07 17.39947	17 22 10.93	−31 01 02.6	16.8	N	467
29P	2015 07 17.40324	17 22 10.84	−31 01 02.1	16.6	N	467
29P	2015 07 17.40703	17 22 10.79	−31 01 01.7	16.7	N	467
29P	2015 07 17.42531	17 22 10.82	−31 01 06.1	15.0	N	Q68
29P	2015 07 17.50128	17 22 08.75	−31 00 55.1	15.1	N	Q68
29P	2015 07 17.53016	17 22 07.94	−31 00 50.1	15.6	N	E94
29P	2015 07 17.56270	17 22 07.21	−31 00 46.7	16.0	N	Q68
29P	2015 07 17.56848	17 22 07.08	−31 00 47.1	15.1	N	Q68
29P	2015 07 17.60220	17 22 06.34	−31 00 42.4	15.6	N	E94
29P	2015 07 17.62594	17 22 05.78	−31 00 40.3	16.2	N	Q68
29P	2015 07 17.67073	17 22 04.83	−31 00 36.5	16.1	N	Q68
29P	2015 07 17.69795	17 22 04.22	−31 00 34.0	15.2	N	Q68
29P	2015 07 17.87539	17 22 00.37	−31 00 20.1	15.4	N	K K25

29P	2015 07 17.88929	17 22 00.01	−31 00 18.8	15.8	N	K K25
29P	2015 07 18.61940	17 21 43.94	−30 59 03.7	14.9	N	Q65
29P	2015 07 18.62763	17 21 43.78	−30 59 03.3	14.9	N	Q65
29P	2015 07 18.63718	17 21 43.57	−30 59 02.2	14.9	N	Q65
29P	2015 07 18.64638	17 21 43.35	−30 59 01.2	15.0	N	Q65
29P	2015 07 18.65633	17 21 43.13	−30 59 00.5	15.0	N	Q65
29P	2015 07 19.29042	17 21 29.55	−30 57 56.3	15.6	N	E94
29P	2015 07 19.35551	17 21 28.09	−30 57 49.8	15.9	N	E94
29P	2015 07 19.53348	17 21 24.30	−30 57 32.5	15.8	N	E94
29P	2015 07 19.86826	17 21 17.25	−30 57 00.7	16.3	N	K A77
29P	2015 07 19.88030	17 21 17.03	−30 57 00.3	16.3	N	K A77
29P	2015 07 19.89234	17 21 16.79	−30 56 59.4	15.6	N	K A77
29P	2015 07 20.24227	17 21 09.43	−30 56 24.0	15.7	N	KW96
29P	2015 07 20.27145	17 21 08.72	−30 56 20.4	16.5	N	KW96
29P	2015 07 21.09352	17 20 52.00	−30 54 57.0	16.4	N	W96
29P	2015 07 21.11394	17 20 51.55	−30 54 54.7	16.3	N	W96
29P	2015 07 21.54258	17 20 42.88	−30 54 11.0	16.9	N	467
29P	2015 07 21.54638	17 20 42.79	−30 54 10.5	16.8	N	467
29P	2015 07 21.55017	17 20 42.72	−30 54 10.3	16.9	N	467
29P	2015 07 21.55396	17 20 42.65	−30 54 10.0	16.9	N	467
29P	2015 07 22.09279	17 20 32.07	−30 53 16.5	16.3	N	W96
29P	2015 07 22.11321	17 20 31.63	−30 53 14.6	16.1	N	W96
29P	2015 07 22.13473	17 20 31.17	−30 53 12.0	16.1	N	W96
29P	2015 07 22.43685	17 20 25.30	−30 52 41.1	17.3	N	467
29P	2015 07 22.44064	17 20 25.23	−30 52 40.7	17.3	N	467
29P	2015 07 22.44443	17 20 25.16	−30 52 40.2	17.4	N	467
29P	2015 07 22.44822	17 20 25.06	−30 52 40.0	16.4	N	467
29P	2015 07 22.45201	17 20 25.01	−30 52 39.7	17.2	N	467
29P	2015 07 23.02373	17 20 14.12	−30 51 42.5	16.7	N	W96
29P	2015 07 23.03643	17 20 13.80	−30 51 40.5	16.6	N	W96
29P	2015 07 23.08399	17 20 12.93	−30 51 36.5	16.6	N	W96
29P	2015 07 23.14714	17 20 11.63	−30 51 29.6	16.4	N	W96
29P	2015 07 23.18943	17 20 10.80	−30 51 24.1	16.6	N	W96
29P	2015 07 23.36786	17 20 07.50	−30 51 06.7	16.0	N	E94
29P	2015 07 23.37188	17 20 07.43	−30 51 06.1	16.0	N	E94
29P	2015 07 23.37589	17 20 07.34	−30 51 06.0	16.0	N	E94
29P	2015 07 23.37990	17 20 07.27	−30 51 05.4	16.0	N	E94
29P	2015 07 23.41105	17 20 06.66	−30 51 02.2	16.3	N	E94
29P	2015 07 23.41524	17 20 06.58	−30 51 01.8	16.4	N	E94
29P	2015 07 23.41943	17 20 06.50	−30 51 01.5	16.4	N	E94
29P	2015 07 23.87291	17 19 58.07	−30 50 16.7	13.4	N	213
29P	2015 07 23.89161	17 19 57.71	−30 50 14.9	13.2	N	213
29P	2015 07 23.91406	17 19 57.29	−30 50 12.8	12.8	N	213
29P	2015 07 23.98193	17 19 56.14	−30 50 04.5	12.3	N	W96
29P	2015 07 24.02042	17 19 55.40	−30 50 00.7	12.4	N	W96
29P	2015 07 24.07041	17 19 54.44	−30 49 55.6	12.3	N	W96
29P	2015 07 24.08527	17 19 54.15	−30 49 54.0	12.3	N	W96
29P	2015 07 24.13045	17 19 53.32	−30 49 49.1	12.2	N	W96
29P	2015 07 24.17745	17 19 52.41	−30 49 44.5	12.3	N	W96
29P	2015 07 24.22433	17 19 51.52	−30 49 39.4	12.2	N	W96
29P	2015 07 24.27450	17 19 50.61	−30 49 34.3	12.2	N	W96
29P	2015 07 25.28517	17 19 32.62	−30 47 50.2	12.6	N	E85
29P	2015 07 25.28787	17 19 32.56	−30 47 50.1	12.6	N	E85
29P	2015 07 25.29458	17 19 32.48	−30 47 49.3	12.6	N	E85
29P	2015 07 25.31583	17 19 32.06	−30 47 46.9	12.1	N	467
29P	2015 07 25.31627	17 19 32.05	−30 47 46.9	12.1	N	467
29P	2015 07 25.31672	17 19 32.01	−30 47 46.2	13.2	N	467
29P	2015 07 25.31716	17 19 32.03	−30 47 46.8	12.2	N	467
29P	2015 07 25.31762	17 19 31.99	−30 47 46.0	13.2	N	467
29P	2015 07 25.32950	17 19 31.87	−30 47 45.8	12.2	N	467
29P	2015 07 25.56042	17 19 27.68	−30 47 24.5	12.1	T	372
29P	2015 07 25.56372	17 19 27.62	−30 47 24.0			372
29P	2015 07 25.95453	17 19 20.90	−30 46 43.0	12.5	N	J38
29P	2015 07 25.95667	17 19 20.88	−30 46 42.9	12.6	N	J38
29P	2015 07 25.95881	17 19 20.87	−30 46 42.9	12.6	N	J38
29P	2015 07 25.96867	17 19 20.75	−30 46 40.6	12.5	N	W96
29P	2015 07 26.01408	17 19 19.96	−30 46 35.7	12.5	N	W96
29P	2015 07 26.06107	17 19 19.09	−30 46 31.7	12.3	N	W96
29P	2015 07 26.08108	17 19 18.78	−30 46 29.7	12.4	N	W96
29P	2015 07 26.12939	17 19 17.90	−30 46 24.1	12.5	N	W96
29P	2015 07 26.18115	17 19 17.00	−30 46 18.5	12.6	N	W96
29P	2015 07 26.49854	17 19 11.70	−30 45 47.3			D81
29P	2015 07 26.49912	17 19 11.67	−30 45 47.3			D81
29P	2015 07 26.49971	17 19 11.66	−30 45 47.5			D81
29P	2015 07 26.50030	17 19 11.68	−30 45 47.3	12.2	T	D81
29P	2015 07 26.58385	17 19 10.20	−30 45 39.0	11.2	T	349
29P	2015 07 26.58824	17 19 10.11	−30 45 38.4			349
29P	2015 07 26.85469	17 19 05.77	−30 45 11.1	12.8	N	I57
29P	2015 07 26.85954	17 19 05.68	−30 45 09.9	12.8	N	I57
29P	2015 07 26.86196	17 19 05.57	−30 45 07.1	12.9	N	I57
29P	2015 07 26.87456	17 19 05.47	−30 45 09.0	13.0	N	162
29P	2015 07 26.88567	17 19 05.16	−30 45 07.9	13.0	N	162
29P	2015 07 26.90552	17 19 04.83	−30 45 05.3	13.2	N	213
29P	2015 07 26.90925	17 19 04.76	−30 45 05.9	13.2	N	213
29P	2015 07 26.91300	17 19 04.76	−30 45 05.1	13.1	N	213
29P	2015 07 26.97617	17 19 03.84	−30 44 56.6	13.1	N	W96
29P	2015 07 27.01302	17 19 03.19	−30 44 52.5	13.1	N	W96
29P	2015 07 27.05666	17 19 02.43	−30 44 48.3	13.1	N	W96
29P	2015 07 27.07541	17 19 02.11	−30 44 46.2	13.1	N	W96
29P	2015 07 27.12041	17 19 01.38	−30 44 41.7	13.2	N	W96
29P	2015 07 27.17091	17 19 00.47	−30 44 36.2	13.2	N	W96
29P	2015 07 28.47458	17 18 39.78	−30 42 22.9	13.7	N	Q68
29P	2015 07 28.54568	17 18 38.80	−30 42 14.3	13.8	N	Q68
29P	2015 07 28.54616	17 18 38.65	−30 42 15.0	13.5	N	Q68
29P	2015 07 29.86584	17 18 18.98	−30 39 58.4	13.7	N	J36
29P	2015 07 29.88940	17 18 18.56	−30 39 57.6	13.8	N	J36
29P	2015 07 29.89676	17 18 18.44	−30 39 57.0	13.8	N	J36
29P	2015 08 01.00887	17 17 49.31	−30 36 18.0	14.4	N	G39
29P	2015 08 01.02054	17 17 48.99	−30 36 16.6	16.0	N	G39
29P	2015 08 01.40622	17 17 44.32	−30 35 35.9	16.6	N	Q68
29P	2015 08 01.41428	17 17 44.13	−30 35 35.1	16.3	N	E85
29P	2015 08 01.41595	17 17 44.11	−30 35 35.0	16.3	N	467
29P	2015 08 01.41697	17 17 44.09	−30 35 34.9	16.5	N	467
29P	2015 08 01.41775	17 17 44.09	−30 35 34.8	16.4	N	467
29P	2015 08 01.41788	17 17 44.08	−30 35 34.8	16.3	N	E85
29P	2015 08 01.41855	17 17 44.08	−30 35 34.7	16.5	N	467

29P	2015 08 01.42146	17 17 44.03	−30 35 34.4	16.3	N	E85
29P	2015 08 01.44789	17 17 43.73	−30 35 31.5	16.3	N	Q68
29P	2015 08 01.48448	17 17 43.24	−30 35 27.6	16.5	N	Q68
29P	2015 08 02.86986	17 17 26.30	−30 33 05.4	14.8	N	213
29P	2015 08 02.87741	17 17 26.25	−30 33 05.4	14.8	N	213
29P	2015 08 02.89249	17 17 26.13	−30 33 03.4	14.8	N	213
29P	2015 08 03.56265	17 17 18.24	−30 31 52.7	15.8	N	Q68
29P	2015 08 03.60544	17 17 17.82	−30 31 48.1	15.7	N	Q68
29P	2015 08 03.97854	17 17 13.81	−30 31 10.0	16.2	N	W96
29P	2015 08 04.03030	17 17 13.22	−30 31 04.3	16.1	N	W96
29P	2015 08 06.13256	17 16 51.94	−30 27 27.5	15.7	N	G39
29P	2015 08 06.13986	17 16 51.72	−30 27 25.8	16.6	N	G39
29P	2015 08 06.52193	17 16 48.16	−30 26 47.0	15.9	N	Q68
29P	2015 08 06.58486	17 16 47.58	−30 26 40.4	16.2	N	Q68
29P	2015 08 07.12690	17 16 42.52	−30 25 44.8	16.1	N	G39
29P	2015 08 07.13127	17 16 42.49	−30 25 45.0	16.1	N	G39
29P	2015 08 07.13858	17 16 42.50	−30 25 44.7	16.0	N	G39
29P	2015 08 07.38912	17 16 40.58	−30 25 18.2	15.9	N	Q68
29P	2015 08 07.49548	17 16 39.67	−30 25 05.2	15.6	N	Q68
29P	2015 08 08.12409	17 16 34.49	−30 24 02.3	16.2	N	G39
29P	2015 08 08.12846	17 16 34.48	−30 24 03.1	16.2	N	G39
29P	2015 08 08.13576	17 16 34.39	−30 24 02.0	16.2	N	G39
29P	2015 08 10.09735	17 16 20.30	−30 20 41.1	17.0	N	W96
29P	2015 08 10.11858	17 16 20.11	−30 20 38.8	16.0	N	G39
29P	2015 08 10.13024	17 16 20.05	−30 20 37.4	16.2	N	G39
29P	2015 08 10.14614	17 16 19.92	−30 20 35.7	17.1	N	W96
29P	2015 08 10.37673	17 16 18.54	−30 20 12.3	16.2	N	Q68
29P	2015 08 10.47262	17 16 18.01	−30 20 03.7	16.5	N	Q68
29P	2015 08 11.11578	17 16 14.00	−30 18 55.7	16.4	N	G39
29P	2015 08 11.12744	17 16 13.90	−30 18 54.2	15.9	N	G39
29P	2015 08 12.13861	17 16 08.52	−30 17 13.6	16.9	N	W96
29P	2015 08 12.18508	17 16 08.37	−30 17 07.2	16.8	N	W96
29P	2015 08 12.50587	17 16 06.79	−30 16 35.8	16.7	N	467
29P	2015 08 12.50909	17 16 06.74	−30 16 35.6	16.3	N	467
29P	2015 08 12.51115	17 16 06.76	−30 16 35.4	16.8	N	467
29P	2015 08 12.51319	17 16 06.74	−30 16 35.0	16.3	N	467
29P	2015 08 12.51729	17 16 06.75	−30 16 34.5	16.5	N	467
29P	2015 08 12.51954	17 16 06.70	−30 16 34.5	16.6	N	467
29P	2015 08 12.52339	17 16 06.67	−30 16 34.0	16.8	N	467
29P	2015 08 12.52725	17 16 06.67	−30 16 33.6	17.2	N	467
29P	2015 08 12.98054	17 16 04.63	−30 15 49.4	16.8	N	W96
29P	2015 08 13.01502	17 16 04.56	−30 15 44.6	16.7	N	W96
29P	2015 08 13.11094	17 16 04.04	−30 15 35.0	16.7	N	G39
29P	2015 08 13.12262	17 16 04.01	−30 15 34.6	16.1	N	G39
29P	2015 08 14.10818	17 16 00.10	−30 13 55.8	16.2	N	G39
29P	2015 08 14.11986	17 16 00.05	−30 13 55.3	16.0	N	G39
29P	2015 08 15.10541	17 15 57.47	−30 12 20.8	15.3	N	G39
29P	2015 08 15.11708	17 15 57.48	−30 12 20.8	15.5	N	G39
29P	2015 08 16.43209	17 15 54.19	−30 10 03.8	16.2	N	Q68
29P	2015 08 16.61197	17 15 53.81	−30 09 45.7	16.6	N	Q68
29P	2015 08 17.44913	17 15 52.77	−30 08 23.4	17.1	N	467
29P	2015 08 17.48976	17 15 52.71	−30 08 19.9	17.4	N	467
29P	2015 08 17.49341	17 15 52.73	−30 08 19.2	17.4	N	467
29P	2015 08 18.09707	17 15 52.31	−30 07 20.6	16.9	N	G39
29P	2015 08 18.10291	17 15 52.29	−30 07 20.2	17.2	N	G39
29P	2015 08 18.10875	17 15 52.33	−30 07 19.7	17.1	N	G39
29P	2015 08 19.09282	17 15 52.23	−30 05 44.5	16.4	N	G39
29P	2015 08 19.10017	17 15 52.20	−30 05 43.7	16.9	N	G39
29P	2015 08 19.10601	17 15 52.20	−30 05 43.2	16.5	N	G39
29P	2015 08 19.18284	17 15 52.23	−30 05 35.0	16.8	N	KW96
29P	2015 08 19.21780	17 15 52.24	−30 05 31.2	17.3	N	KW96
29P	2015 08 20.09154	17 15 52.89	−30 04 06.9	16.6	N	G39
29P	2015 08 20.09593	17 15 52.89	−30 04 06.4	16.8	N	G39
29P	2015 08 20.10323	17 15 52.87	−30 04 06.1	16.7	N	G39
29P	2015 08 20.40350	17 15 53.28	−30 03 36.8	17.6	N	Q68
29P	2015 08 20.43914	17 15 53.26	−30 03 33.8	18.3	N	Q68
29P	2015 08 20.52945	17 15 53.42	−30 03 24.7	17.7	N	Q68
29P	2015 08 21.02653	17 15 54.10	−30 02 39.0	17.1	N	G39
29P	2015 08 21.03236	17 15 54.15	−30 02 38.8	16.5	N	G39
29P	2015 08 21.03819	17 15 54.12	−30 02 37.7	17.3	N	G39
29P	2015 08 22.99876	17 15 59.04	−29 59 30.5	17.4	N	W96
29P	2015 08 23.02807	17 15 59.13	−29 59 25.1	17.4	N	G39
29P	2015 08 23.03390	17 15 59.16	−29 59 24.8	16.8	N	G39
29P	2015 08 23.03567	17 15 59.09	−29 59 26.9	17.2	N	W96
29P	2015 08 23.03972	17 15 59.16	−29 59 24.5	17.0	N	G39
29P	2015 08 24.02704	17 16 02.71	−29 57 54.5	17.0	N	G39
29P	2015 08 24.03287	17 16 02.67	−29 57 54.2	17.2	N	G39
29P	2015 08 24.03870	17 16 02.70	−29 57 54.4	17.1	N	G39
29P	2015 08 25.02686	17 16 06.96	−29 56 21.7	16.2	N	G39
29P	2015 08 25.03270	17 16 07.09	−29 56 20.9	17.2	N	G39
29P	2015 08 25.03853	17 16 07.07	−29 56 20.2	16.8	N	G39
29P	2015 08 26.02528	17 16 11.98	−29 54 49.1	15.1	N	G39
29P	2015 08 26.03262	17 16 12.04	−29 54 49.0	15.5	N	G39
29P	2015 08 26.03845	17 16 12.04	−29 54 49.0	15.7	N	G39

32P/Comas Solá

32P	2015 04 02.84663	11 16 31.93	+20 03 15.1	16.3	N	B75
32P	2015 04 02.84810	11 16 31.94	+20 03 15.3	16.6	N	B75
32P	2015 04 02.84883	11 16 31.89	+20 03 15.4	16.6	N	B75
32P	2015 04 02.84955	11 16 31.89	+20 03 15.3	16.5	N	B75
32P	2015 05 10.56262	11 15 59.26	+15 56 01.3	15.3	T	D95
32P	2015 05 10.56692	11 15 59.40	+15 56 00.1			D95
32P	2015 06 05.91882	11 31 58.25	+11 55 19.0	16.4	T	17 I89
32P	2015 06 05.92007	11 31 58.38	+11 55 19.8	17.8	N	17 I89
32P	2015 07 03.88980	11 57 26.87	+07 20 22.0	18.8	N	9 G40
32P	2015 07 03.89663	11 57 27.28	+07 20 18.1	18.9	N	9 G40
32P	2015 07 12.28258	12 06 09.493	+05 56 47.69	19.9	T	F51
32P	2015 07 12.28643	12 06 09.740	+05 56 45.27	20.1	T	F51
32P	2015 07 12.29032	12 06 09.980	+05 56 43.01	19.9	T	F51
32P	2015 07 12.29423	12 06 10.239	+05 56 40.68	20.0	T	F51

40P/Väisälä

40P	2015 07 06.97181	17 14 14.36	−10 28 03.3	17.8	N	K C23
40P	2015 07 06.97759	17 14 14.25	−10 28 05.1	17.6	N	K C23
40P	2015 07 08.25577	17 13 35.48	−10 34 32.7	18.2	T	G96
40P	2015 07 08.26088	17 13 35.32	−10 34 34.5	19.2	T	G96
40P	2015 07 08.26599	17 13 35.15	−10 34 36.2	18.5	T	G96

40P	2015 07 08.27110	17 13 34.96	−10 34 38.0	18.4	T	G96
40P	2015 08 11.28778	17 09 26.302	−13 39 05.67	21.2	T	F51
40P	2015 08 11.29826	17 09 26.419	−13 39 09.18	21.2	T	F51
40P	2015 08 11.30883	17 09 26.556	−13 39 12.58	21.2	T	F51
40P	2015 08 12.28207	17 09 41.198	−13 44 26.82	21.1	T	F51
40P	2015 08 12.30331	17 09 41.527	−13 44 33.58	21.4	T	F51
40P	2015 08 12.31362	17 09 41.660	−13 44 36.83	21.2	T	F51

42P/Neujmin

42P	2015 07 11.00957	00 07 22.52	+00 16 48.4	18.5	T	K 215
42P	2015 07 11.01087	00 07 22.65	+00 16 48.9	18.4	T	K 215
42P	2015 07 23.55872	00 15 48.253	+00 41 01.16	19.3	T	F51
42P	2015 07 23.57067	00 15 48.593	+00 41 01.68	19.3	T	F51
42P	2015 07 23.58265	00 15 48.932	+00 41 02.23	19.2	T	F51
42P	2015 07 23.59467	00 15 49.278	+00 41 02.76	19.3	T	F51
42P	2015 07 29.58714	00 18 22.479	+00 42 10.35	20.3	T	F51
42P	2015 07 29.59536	00 18 22.656	+00 42 10.13	20.3	T	F51
42P	2015 07 29.60352	00 18 22.782	+00 42 10.09	20.4	T	F51
42P	2015 07 29.61164	00 18 22.960	+00 42 09.67	20.0	T	F51
42P	2015 07 30.52774	00 18 41.347	+00 41 43.96	20.1	T	F51
42P	2015 07 30.54006	00 18 41.561	+00 41 43.53	20.4	T	F51
42P	2015 07 30.55238	00 18 41.757	+00 41 43.10	20.1	T	F51
42P	2015 07 30.56450	00 18 41.982	+00 41 42.59	20.0	T	F51
42P	2015 08 15.41294	00 20 15.39	+00 09 18.2	18.6	T	G45
42P	2015 08 15.41810	00 20 15.31	+00 09 16.9	18.0	T	G45
42P	2015 08 15.42558	00 20 15.29	+00 09 15.7	18.2	T	G45
42P	2015 08 15.43066	00 20 15.18	+00 09 15.2	17.8	T	G45
42P	2015 08 15.43349	00 20 15.19	+00 09 14.0	18.2	T	G45
42P	2015 08 15.43555	00 20 15.14	+00 09 12.9	18.5	T	G45
42P	2015 08 20.08596	00 19 25.20	−00 08 39.5	18.3	N	K A77
42P	2015 08 20.10188	00 19 24.96	−00 08 43.4	17.9	N	K A77
42P	2015 08 20.11780	00 19 24.68	−00 08 47.6	18.1	N	K A77

43P/Wolf-Harrington

43P	2015 07 15.42280	20 43 15.374	+00 56 20.69	20.8	T	F51
43P	2015 07 15.44676	20 43 14.248	+00 56 21.89	20.7	T	F51
43P	2015 07 15.45880	20 43 13.687	+00 56 22.56	20.7	T	F51

44P/Reinmuth

44P	2015 07 12.08259	02 55 37.36	+22 06 16.1	18.4	N	K 160
44P	2015 07 12.08463	02 55 37.59	+22 06 17.2	18.5	N	K 160
44P	2015 07 12.08667	02 55 37.80	+22 06 18.3	18.4	N	K 160
44P	2015 07 15.37420	03 01 17.01	+22 32 59.2	18.1	N	KW96
44P	2015 07 15.40203	03 01 19.69	+22 33 10.8	17.4	N	KW96
44P	2015 07 16.09089	03 02 29.91	+22 38 32.9	18.1	N	K K25
44P	2015 07 16.09942	03 02 30.77	+22 38 36.6	18.2	N	K K25
44P	2015 07 17.10371	03 04 12.83	+22 46 28.0	18.3	N	K K25
44P	2015 07 17.11256	03 04 13.65	+22 46 32.5	17.9	N	K K25
44P	2015 07 18.10344	03 05 53.76	+22 54 11.1	18.4	N	K 160
44P	2015 07 18.10577	03 05 54.01	+22 54 12.3	18.5	N	K 160
44P	2015 07 18.10811	03 05 54.27	+22 54 13.2	18.2	N	K 160
44P	2015 07 20.05183	03 09 08.87	+23 08 57.0	17.0	N	C23
44P	2015 07 20.05616	03 09 09.31	+23 08 58.1	16.9	N	C23
44P	2015 07 20.06049	03 09 09.79	+23 09 00.2	17.2	N	C23
44P	2015 08 04.36525	03 33 14.94	+24 52 29.8	17.6	N	KW96
44P	2015 08 04.39121	03 33 17.28	+24 52 37.5	18.1	N	KW96
44P	2015 08 07.05632	03 37 11.27	+25 08 22.6	18.0	N	K 160
44P	2015 08 07.05867	03 37 11.47	+25 08 23.4	18.5	N	K 160
44P	2015 08 13.06434	03 45 34.85	+25 41 37.9	18.7	T	K 215
44P	2015 08 13.06561	03 45 34.97	+25 41 38.5	18.6	T	K 215
44P	2015 08 13.06689	03 45 35.04	+25 41 38.8	17.7	T	K 215
44P	2015 08 15.44380	03 48 44.71	+25 53 57.6	17.8	T	G45
44P	2015 08 15.44966	03 48 45.19	+25 53 59.8	17.7	T	G45
44P	2015 08 15.46118	03 48 46.05	+25 54 02.8	17.9	T	G45
44P	2015 08 15.46701	03 48 46.52	+25 54 04.5	17.9	T	G45
44P	2015 08 15.47281	03 48 46.91	+25 54 06.4	17.7	T	G45
44P	2015 08 15.47874	03 48 47.50	+25 54 08.1	18.3	T	G45
44P	2015 08 17.11902	03 50 55.04	+26 02 18.2	17.7	N	K I81
44P	2015 08 17.12063	03 50 55.17	+26 02 18.7	17.8	N	K I81
44P	2015 08 17.12224	03 50 55.31	+26 02 19.1	17.6	N	K I81
44P	2015 08 17.22939	03 51 03.50	+26 02 52.2	17.9	N	J22
44P	2015 08 17.23093	03 51 03.61	+26 02 52.6	17.9	N	J22
44P	2015 08 17.23561	03 51 04.04	+26 02 55.0	17.9	N	J22
44P	2015 08 22.06740	03 57 02.20	+26 25 37.5	18.0	N	K C23
44P	2015 08 22.07040	03 57 02.35	+26 25 38.5	17.0	N	K C23
44P	2015 08 22.07340	03 57 02.54	+26 25 39.3	17.8	N	K C23
44P	2015 08 22.11711	03 57 05.70	+26 25 51.4	17.8	T	K 104
44P	2015 08 22.12284	03 57 06.10	+26 25 53.1	17.8	T	K 104
44P	2015 08 24.04541	03 59 21.26	+26 34 21.9	18.2	N	K I81
44P	2015 08 24.04772	03 59 21.39	+26 34 22.6	18.2	N	K I81
44P	2015 08 24.05009	03 59 21.50	+26 34 23.1	17.6	N	K I81
44P	2015 08 26.06324	04 01 38.25	+26 42 58.0	18.0	N	K K61
44P	2015 08 26.06804	04 01 38.54	+26 42 59.5	18.2	N	K K61
44P	2015 08 27.01284	04 02 41.05	+26 46 53.2	17.2	N	K I81
44P	2015 08 27.01499	04 02 41.13	+26 46 54.5	17.5	N	K I81

50P/Arend

50P	2015 07 13.34085	23 36 06.70	−15 28 02.1	18.9	N	KW96
50P	2015 07 13.36641	23 36 07.00	−15 27 56.2	19.0	N	KW96
50P	2015 07 18.17718	23 37 03.67	−15 12 44.2	19.8	N	9 G40
50P	2015 07 18.18397	23 37 03.70	−15 12 42.9			9 G40
50P	2015 07 28.23758	23 37 08.79	−14 44 50.0	19.2	N	KW96
50P	2015 07 28.27060	23 37 08.43	−14 44 45.4	19.0	N	KW96
50P	2015 08 05.36558	23 35 12.14	−14 25 29.6	19.2	T	G45
50P	2015 08 05.37104	23 35 12.04	−14 25 29.7	19.5	T	G45
50P	2015 08 05.37633	23 35 11.88	−14 25 28.9	18.6	T	G45
50P	2015 08 05.38967	23 35 11.60	−14 25 27.4	19.0	T	G45
50P	2015 08 05.39496	23 35 11.50	−14 25 26.5	18.9	T	G45
50P	2015 08 05.40028	23 35 11.35	−14 25 25.7	19.1	T	G45
50P	2015 08 05.40557	23 35 11.27	−14 25 25.2	19.5	T	G45
50P	2015 08 06.37124	23 34 49.87	−14 23 13.5	19.8	T	G45
50P	2015 08 06.38205	23 34 49.62	−14 23 12.5	19.5	T	G45
50P	2015 08 06.39522	23 34 49.30	−14 23 11.0	19.9	T	G45
50P	2015 08 06.40054	23 34 49.16	−14 23 10.1	19.3	T	G45
50P	2015 08 06.67129	23 34 42.89	−14 22 28.3	19.1	N	K Q68
50P	2015 08 06.72015	23 34 41.64	−14 22 21.5	18.9	N	K Q68
50P	2015 08 09.50063	23 33 29.381	−14 16 15.20	19.4	T	F52

50P	2015 08 09.51347	23 33 28.965	−14 16 13.64	19.6	T	F52
50P	2015 08 09.52615	23 33 28.605	−14 16 11.78	19.7	T	F52
50P	2015 08 09.53904	23 33 28.196	−14 16 10.11	19.7	T	F52
50P	2015 08 12.99029	23 31 39.52	−14 08 35.2	18.7	T	K 215
50P	2015 08 12.99220	23 31 39.45	−14 08 35.3	19.1	T	K 215
50P	2015 08 12.99411	23 31 39.37	−14 08 35.5	19.0	T	K 215
50P	2015 08 14.36280	23 30 50.51	−14 05 32.0	18.2	T	G45
50P	2015 08 14.36792	23 30 50.38	−14 05 30.7	19.0	T	G45
50P	2015 08 14.37315	23 30 50.17	−14 05 30.5	18.9	T	G45
50P	2015 08 14.37803	23 30 49.99	−14 05 29.6	18.6	T	G45
50P	2015 08 14.37816	23 30 49.97	−14 05 29.4	18.5	T	G45
50P	2015 08 14.38450	23 30 49.72	−14 05 28.9	18.7	T	G45
50P	2015 08 15.15059	23 30 20.95	−14 03 46.1	18.5	N	J22
50P	2015 08 15.15442	23 30 20.85	−14 03 46.0	18.5	N	J22
50P	2015 08 15.15823	23 30 20.72	−14 03 45.3	18.5	N	J22
50P	2015 08 15.36410	23 30 12.87	−14 03 17.6	18.6	T	G45
50P	2015 08 15.36915	23 30 12.62	−14 03 17.9	18.5	T	G45
50P	2015 08 15.37414	23 30 12.47	−14 03 16.3	18.9	T	G45
50P	2015 08 15.37825	23 30 12.29	−14 03 16.0	19.0	T	G45
50P	2015 08 15.38047	23 30 12.17	−14 03 15.5	18.9	T	G45
50P	2015 08 15.38539	23 30 11.98	−14 03 14.9	18.6	T	G45
50P	2015 08 18.96344	23 27 43.83	−13 55 06.2	19.6	N	K A71
50P	2015 08 18.97678	23 27 43.18	−13 55 04.3	18.8	N	K A71
50P	2015 08 20.39617	23 26 38.53	−13 51 41.4	18.2	T	703
50P	2015 08 20.41419	23 26 37.44	−13 51 39.0	17.6	T	703
50P	2015 08 20.75662	23 26 21.43	−13 50 43.8	18.0	T	Q60
50P	2015 08 20.76617	23 26 21.03	−13 50 41.5	18.0	T	Q60
50P	2015 08 20.77586	23 26 20.54	−13 50 40.0	18.1	T	Q60
50P	2015 08 21.46016	23 25 48.327	−13 49 05.94	19.2	T	F51
50P	2015 08 21.48466	23 25 47.088	−13 49 02.39	19.3	T	F51
50P	2015 08 21.49690	23 25 46.468	−13 49 00.57	19.3	T	F51
50P	2015 08 22.06034	23 25 19.18	−13 47 38.2	18.1	N	J22
50P	2015 08 22.06472	23 25 18.97	−13 47 37.4	18.1	N	J22
50P	2015 08 22.06907	23 25 18.76	−13 47 37.1	18.1	N	J22
50P	2015 08 23.00580	23 24 32.03	−13 45 16.1	17.9	N	K B96
50P	2015 08 23.01078	23 24 31.85	−13 45 17.0	17.1	N	K B96

51P/Harrington

51P	2015 06 01.79523	23 24 56.34	−08 51 22.4			1 Q62
51P	2015 06 01.79721	23 24 56.61	−08 51 21.1			1 Q62
51P	2015 06 01.79914	23 24 56.89	−08 51 19.7	16.0	T	1 Q62
51P	2015 06 23.74191	00 14 00.29	−04 55 57.0	15.9	T	349
51P	2015 06 23.74554	00 14 00.77	−04 55 55.1			349
51P	2015 06 28.04541	00 23 24.07	−04 11 50.9	18.4	N	K 160
51P	2015 06 28.04775	00 23 24.37	−04 11 49.7	18.8	N	K 160
51P	2015 06 28.05010	00 23 24.66	−04 11 48.6	18.4	N	K 160
51P	2015 07 13.38212	00 55 51.71	−01 45 13.9	18.7	N	KW96
51P	2015 07 13.40018	00 55 53.78	−01 45 02.5	18.7	N	KW96
51P	2015 07 14.45387	00 58 03.35	−01 35 50.3			5 U69
51P	2015 07 14.45732	00 58 03.73	−01 35 49.1			5 U69
51P	2015 07 14.46076	00 58 04.16	−01 35 47.2	18.6	T	5 U69
51P	2015 07 15.27893	00 59 43.74	−01 28 34.9	18.5	N	KW96
51P	2015 07 15.31879	00 59 48.45	−01 28 19.7	18.6	N	KW96
51P	2015 07 16.09222	01 01 22.43	−01 21 39.1	17.6	N	K A77
51P	2015 07 16.10454	01 01 24.02	−01 21 32.7	17.1	N	K A77
51P	2015 07 16.29501	01 01 47.07	−01 19 47.1	19.0	N	KW96
51P	2015 07 16.33082	01 01 51.12	−01 19 29.3	18.3	N	KW96
51P	2015 07 20.30255	01 09 45.42	−00 46 18.8	18.8	N	KW96
51P	2015 07 20.33948	01 09 49.88	−00 46 00.8	18.7	N	KW96
51P	2015 07 21.25215	01 11 37.04	−00 38 41.0	18.6	N	KW96
51P	2015 07 21.27710	01 11 40.08	−00 38 28.0	19.1	N	KW96
51P	2015 07 23.24331	01 15 28.41	−00 22 57.2	18.6	N	KW96
51P	2015 07 23.28047	01 15 32.71	−00 22 40.2	18.7	N	KW96
51P	2015 07 27.34091	01 23 13.20	+00 07 51.0	18.6	N	KW96
51P	2015 07 27.34467	01 23 13.56	+00 07 51.9	18.9	N	KW96
51P	2015 07 28.12649	01 24 40.47	+00 13 24.0	19.3	N	9 G40
51P	2015 07 28.14046	01 24 41.98	+00 13 29.4	19.3	N	9 G40
51P	2015 07 28.30235	01 24 59.66	+00 14 44.0	19.1	N	KW96
51P	2015 07 28.34770	01 25 04.65	+00 15 03.9	18.7	N	KW96
51P	2015 07 28.80965	01 25 55.46	+00 18 24.1			1 Q62
51P	2015 07 28.81215	01 25 55.74	+00 18 25.3			1 Q62
51P	2015 07 28.81465	01 25 55.98	+00 18 26.6	18.1	T	1 Q62
51P-D	2015 07 28.82057	01 28 46.20	+00 39 19.2			1 Q62
51P-D	2015 07 28.82311	01 28 46.49	+00 39 20.1			1 Q62
51P-D	2015 07 28.82564	01 28 46.78	+00 39 21.2	19.4	T	1 Q62
51P	2015 08 07.30264	01 42 29.07	+01 19 15.3	18.6	N	KW96
51P	2015 08 07.32243	01 42 31.22	+01 19 24.5	19.0	N	KW96
51P	2015 08 10.25207	01 47 14.97	+01 35 39.3	19.3	N	KW96
51P	2015 08 10.27313	01 47 16.79	+01 35 48.1	19.9	N	KW96
51P-B	2015 08 12.55874	01 53 54.011	+02 10 27.93	21.0	T	F51
51P	2015 08 12.56986	01 50 50.316	+01 47 29.55	21.9	T	F51
51P-B	2015 08 12.56986	01 53 55.001	+02 10 31.41	21.0	T	F51
51P-B	2015 08 12.58103	01 53 55.998	+02 10 34.72	21.1	T	F51
51P	2015 08 12.58103	01 50 51.279	+01 47 32.68	22.1	T	F51
51P-B	2015 08 12.59228	01 53 57.004	+02 10 38.23	20.9	T	F51
51P	2015 08 12.59228	01 50 52.245	+01 47 36.31	21.9	T	F51
51P	2015 08 17.14688	01 57 30.51	+02 08 37.4	19.9	N	9 G40
51P	2015 08 17.16760	01 57 32.22	+02 08 42.7	20.0	N	9 G40
51P	2015 08 19.16587	02 00 15.95	+02 16 58.5	19.8	N	9 G40
51P	2015 08 19.18583	02 00 17.50	+02 17 02.8	20.0	N	9 G40
51P-B	2015 08 21.55529	02 06 38.463	+02 50 31.15	21.1	T	F51
51P-B	2015 08 21.56724	02 06 39.336	+02 50 33.85	21.0	T	F51
51P-B	2015 08 21.57921	02 06 40.224	+02 50 36.57	21.0	T	F51
51P-B	2015 08 21.59121	02 06 41.105	+02 50 39.27	20.9	T	F51
51P	2015 08 23.22501	02 05 26.80	+02 31 53.2	20.5	N	G30
51P	2015 08 23.24329	02 05 27.94	+02 31 53.1	20.4	N	G30
51P	2015 08 26.05883	02 08 45.31	+02 40 54.6	19.3	T	K 215
51P	2015 08 26.06075	02 08 45.45	+02 40 54.5	19.5	T	K 215

53P/Van Biesbroeck

53P	2015 05 10.59780	12 32 17.00	+03 24 50.0	16.7	T	D95
53P	2015 05 10.60776	12 32 16.82	+03 24 52.4			D95
53P	2015 06 27.83753	12 35 20.83	+02 28 47.6	17.5	N	K 160
53P	2015 06 27.83999	12 35 20.79	+02 28 47.6	17.5	N	K 160
53P	2015 06 29.83440	12 36 18.80	+02 20 47.7	18.1	N	K 160
53P	2015 06 29.83681	12 36 18.86	+02 20 47.3	18.8	N	K 160

53P	2015 06 29.83924	12 36 18.91	+02 20 46.7	17.4	N	K 160	
53P	2015 06 30.83722	12 36 49.28	+02 16 37.9	17.6	N	K 160	
53P	2015 06 30.83964	12 36 49.38	+02 16 37.1	17.6	N	K 160	
53P	2015 06 30.84192	12 36 49.48	+02 16 37.4	17.6	N	K 160	
53P	2015 07 01.84237	12 37 20.89	+02 12 22.2	17.3	N	K 160	
53P	2015 07 01.84480	12 37 20.95	+02 12 21.7	17.7	N	K 160	
53P	2015 07 01.84709	12 37 21.03	+02 12 21.0	18.0	N	K 160	
53P	2015 07 02.84276	12 37 53.08	+02 08 02.1	18.0	N	K 160	
53P	2015 07 02.84511	12 37 53.24	+02 08 01.3	17.8	N	K 160	
53P	2015 07 02.84745	12 37 53.33	+02 08 01.1	17.6	N	K 160	
53P	2015 07 05.42969	12 39 20.59	+01 56 27.9	17.4	N	30D90	
53P	2015 07 05.43535	12 39 20.80	+01 56 26.5	17.4	N	30D90	
53P	2015 07 05.44289	12 39 21.04	+01 56 24.2	17.4	N	30D90	
53P	2015 07 10.85590	12 42 42.85	+01 30 08.4	18.0	N	K 160	
53P	2015 07 10.85796	12 42 42.94	+01 30 08.2	17.9	N	K 160	
53P	2015 07 10.85988	12 42 43.02	+01 30 07.7	17.1	N	K 160	
53P	2015 07 10.90102	12 42 44.58	+01 29 56.0	18.1	N	9 G40	
53P	2015 07 10.91494	12 42 45.13	+01 29 52.1	18.2	N	9 G40	
53P	2015 07 11.85292	12 43 22.76	+01 25 03.6	18.3	N	K 160	
53P	2015 07 11.85524	12 43 22.85	+01 25 03.1	18.4	N	K 160	
53P	2015 07 11.85756	12 43 22.91	+01 25 03.2	18.2	N	K 160	
53P	2015 07 12.85415	12 44 03.70	+01 19 51.7	17.5	N	K 160	
53P	2015 07 12.85650	12 44 03.79	+01 19 51.2	17.9	N	K 160	
53P	2015 07 12.85884	12 44 03.79	+01 19 50.8	18.5	N	K 160	
53P	2015 07 20.42666	12 49 39.01	+00 38 11.5	17.4	N	30D90	
53P	2015 07 20.43231	12 49 39.28	+00 38 09.8	17.4	N	30D90	
53P	2015 07 20.43986	12 49 39.64	+00 38 06.9	17.4	N	30D90	
53P	2015 08 07.93214	13 06 16.65	−01 19 32.4	17.9	T	Y00	
53P	2015 08 07.94186	13 06 17.16	−01 19 36.5	18.3	T	Y00	
53P	2015 08 07.95360	13 06 17.94	−01 19 41.6	17.8	T	Y00	

56P/Slaughter-Burnham

56P	2015 07 24.44135	20 52 01.045	−25 07 22.59	20.7	T	F51	
56P	2015 07 24.44192	20 52 01.017	−25 07 22.60	20.8	T	F51	
56P	2015 07 24.46197	20 52 00.134	−25 07 24.70	20.8	T	F51	
56P	2015 07 24.46261	20 52 00.102	−25 07 24.92	20.8	T	F51	
56P	2015 07 24.47230	20 51 59.675	−25 07 25.95	20.8	T	F51	
56P	2015 07 24.47296	20 51 59.649	−25 07 26.08	20.8	T	F51	
56P	2015 08 09.39053	20 40 04.327	−25 30 53.11	20.4	T	F51	
56P	2015 08 09.40084	20 40 03.847	−25 30 53.78	20.6	T	F51	
56P	2015 08 09.41117	20 40 03.367	−25 30 54.14	20.7	T	F51	
56P	2015 08 09.42150	20 40 02.880	−25 30 54.88	20.6	T	F51	
56P	2015 08 15.54153	20 35 29.68	−25 35 19.9	20.5	N	K E07	
56P	2015 08 15.55033	20 35 29.26	−25 35 20.1	20.8	N	K E07	

57P/du Toit-Neujmin-Delporte

57P	2015 06 28.01100	23 49 09.40	+01 47 52.5	18.2	N	K 160	
57P	2015 06 28.01344	23 49 09.57	+01 47 54.4	18.1	N	K 160	
57P	2015 06 28.01588	23 49 09.76	+01 47 55.9	17.8	N	K 160	
57P	2015 07 03.09320	23 56 49.31	+02 34 49.6	17.7	N	K 160	
57P	2015 07 03.09568	23 56 49.44	+02 34 50.7	17.9	N	K 160	
57P	2015 07 03.09803	23 56 49.65	+02 34 51.8	17.9	N	K 160	
57P	2015 07 11.00216	00 07 33.55	+03 39 02.5	17.8	T	K 215	
57P	2015 07 11.00471	00 07 33.76	+03 39 03.6	17.6	T	K 215	
57P	2015 07 11.02955	00 07 35.67	+03 39 14.6	18.1	N	K 160	
57P	2015 07 11.03189	00 07 35.84	+03 39 15.7	18.2	N	K 160	
57P	2015 07 11.03424	00 07 36.00	+03 39 17.2	18.1	N	K 160	
57P	2015 07 11.28413	00 07 54.55	+03 41 14.6	18.1	T	Y00	
57P	2015 07 11.29324	00 07 55.29	+03 41 19.2	18.2	T	Y00	
57P	2015 07 11.30236	00 07 56.00	+03 41 23.4	17.6	T	Y00	
57P	2015 07 11.67550	00 08 24.07	+03 43 59.9	15.3	T	349	
57P	2015 07 11.68530	00 08 24.73	+03 44 03.2			349	
57P	2015 07 11.69456	00 08 25.48	+03 44 07.3	16.1	T	D95	
57P	2015 07 11.69780	00 08 25.72	+03 44 08.9			D95	
57P	2015 07 11.69887	00 08 25.77	+03 44 08.9			D95	
57P	2015 07 12.02591	00 08 50.09	+03 46 30.5	18.1	N	K 160	
57P	2015 07 12.02824	00 08 50.26	+03 46 31.6	18.1	N	K 160	
57P	2015 07 12.03057	00 08 50.41	+03 46 32.6	17.4	N	K 160	
57P	2015 07 13.01862	00 10 02.63	+03 53 32.6	17.5	N	K 160	
57P	2015 07 13.02095	00 10 02.80	+03 53 33.6	17.7	N	K 160	
57P	2015 07 13.02328	00 10 02.98	+03 53 34.8	17.8	N	K 160	
57P	2015 07 13.04654	00 10 04.65	+03 53 45.8	17.4	N	958	
57P	2015 07 13.05903	00 10 05.52	+03 53 49.9	17.6	N	958	
57P	2015 07 13.07227	00 10 06.39	+03 53 53.5	17.6	N	958	
57P	2015 07 13.12542	00 10 10.24	+03 54 17.8	17.0	N	K Z81	
57P	2015 07 13.14508	00 10 11.58	+03 54 25.6	17.1	N	K Z81	
57P	2015 07 13.15831	00 10 12.51	+03 54 31.5	16.9	N	K Z81	
57P	2015 07 16.02453	00 13 32.43	+04 13 36.6	18.3	N	K C47	
57P	2015 07 16.02638	00 13 32.54	+04 13 37.7	18.2	N	K C47	
57P	2015 07 16.03007	00 13 32.80	+04 13 38.9	18.0	N	K C47	
57P	2015 07 16.03191	00 13 32.91	+04 13 39.5	18.3	N	K C47	
57P	2015 07 16.03376	00 13 33.01	+04 13 40.3	17.5	N	K C47	
57P	2015 07 16.03597	00 13 33.20	+04 13 41.2	18.4	N	K C47	
57P	2015 07 16.03782	00 13 33.32	+04 13 41.8	18.2	N	K C47	
57P	2015 07 18.02034	00 15 43.37	+04 25 55.2	17.9	N	K 160	
57P	2015 07 18.02274	00 15 43.53	+04 25 55.5	17.9	N	K 160	
57P	2015 07 18.02500	00 15 43.63	+04 25 55.9	17.2	N	K 160	
57P	2015 07 18.42940	00 16 09.11	+04 28 21.5	16.8	N	K H47	
57P	2015 07 18.43431	00 16 09.42	+04 28 22.8	17.2	N	K H47	
57P	2015 07 19.99731	00 17 46.22	+04 37 14.9	17.1	N	K 160	
57P	2015 07 19.99964	00 17 46.40	+04 37 15.9	18.2	N	K 160	
57P	2015 07 20.00196	00 17 46.53	+04 37 16.8	17.4	N	K 160	
57P	2015 07 20.05234	00 17 49.52	+04 37 32.9	17.2	N	K K25	
57P	2015 07 20.06147	00 17 50.05	+04 37 36.6	17.0	N	K K25	
57P	2015 07 21.00860	00 18 46.38	+04 42 43.1	17.4	N	K 160	
57P	2015 07 21.01092	00 18 46.52	+04 42 43.8	17.5	N	K 160	
57P	2015 07 21.01338	00 18 46.70	+04 42 44.8	17.5	N	K 160	
57P	2015 07 21.09162	00 18 51.13	+04 43 09.5	17.1	N	K K25	
57P	2015 07 21.09922	00 18 51.60	+04 43 12.3	17.0	N	K K25	
57P	2015 07 21.39312	00 19 08.64	+04 44 45.6	16.9	N	H47	
57P	2015 07 21.39715	00 19 08.87	+04 44 47.7	16.9	N	H47	
57P	2015 07 21.40137	00 19 09.10	+04 44 48.5	16.8	N	H47	
57P	2015 07 21.41131	00 19 09.64	+04 44 51.3	16.9	N	H47	
57P	2015 07 21.41614	00 19 09.93	+04 44 53.3	16.7	N	H47	
57P	2015 07 22.11201	00 19 49.85	+04 48 25.3	17.5	N	K B51	
57P	2015 07 22.12510	00 19 50.58	+04 48 28.9	17.6	N	K B51	
57P	2015 07 22.33686	00 20 02.35	+04 49 41.1	16.5	N	W96	

57P	2015 07 22.38280	00 20 04.88	+04 49 55.7	16.6	N		W96
57P	2015 07 22.65781	00 20 20.50	+04 51 17.5	16.7	N		30D90
57P	2015 07 22.66296	00 20 20.87	+04 51 19.8	16.7	N		30D90
57P	2015 07 22.66810	00 20 21.13	+04 51 21.4	16.7	N		30D90
57P	2015 07 23.55525	00 21 09.653	+04 55 31.73	18.7	T		F51
57P	2015 07 23.56721	00 21 10.268	+04 55 35.11	18.5	T		F51
57P	2015 07 23.57918	00 21 10.875	+04 55 38.55	18.6	T		F51
57P	2015 07 23.59119	00 21 11.489	+04 55 41.95	18.5	T		F51
57P	2015 07 24.09482	00 21 38.47	+04 58 00.0	16.6	N	K	A77
57P	2015 07 24.10068	00 21 38.78	+04 58 01.7	16.9	N	K	A77
57P	2015 07 24.10282	00 21 38.80	+04 58 01.7	17.2	N	K	A77
57P	2015 07 24.11131	00 21 39.26	+04 58 04.2	16.8	N	K	A77
57P	2015 07 25.07885	00 22 29.67	+05 02 25.0	16.4	N	K	A77
57P	2015 07 25.08209	00 22 29.79	+05 02 25.4	16.7	N	K	A77
57P	2015 07 25.08694	00 22 30.01	+05 02 26.9	16.6	N	K	A77
57P	2015 07 25.09029	00 22 30.20	+05 02 27.6	16.7	N	K	A77
57P	2015 07 25.13216	00 22 32.36	+05 02 39.4	15.2	T		17 I89
57P	2015 07 25.13849	00 22 32.66	+05 02 41.2	16.6	N		17 I89
57P	2015 07 25.75046	00 23 03.55	+05 05 19.2				K 367
57P	2015 07 25.75208	00 23 03.59	+05 05 19.4				K 367
57P	2015 07 25.75330	00 23 03.66	+05 05 19.7	15.5	T		K 367
57P	2015 07 28.37877	00 25 07.78	+05 15 44.0	16.8	N		W96
57P	2015 07 28.42759	00 25 09.84	+05 15 54.4	16.7	N		W96
57P	2015 07 29.58322	00 26 00.631	+05 19 48.09	18.5	T		F51
57P	2015 07 29.59200	00 26 00.982	+05 19 49.91	18.2	T		F51
57P	2015 07 29.60017	00 26 01.290	+05 19 51.51	18.4	T		F51
57P	2015 07 29.60836	00 26 01.628	+05 19 53.21	18.1	T		F51
57P	2015 07 30.52453	00 26 39.958	+05 22 49.35	18.5	T		F51
57P	2015 07 30.53682	00 26 40.428	+05 22 51.64	18.5	T		F51
57P	2015 07 30.54917	00 26 40.890	+05 22 53.92	18.6	T		F51
57P	2015 07 30.56157	00 26 41.353	+05 22 56.18	18.5	T		F51
57P	2015 07 31.07150	00 27 01.74	+05 24 25.0	16.4	N		C23
57P	2015 07 31.07583	00 27 01.93	+05 24 25.3	16.8	N		C23
57P	2015 07 31.08016	00 27 02.12	+05 24 26.5	16.8	N		C23
57P	2015 07 31.48246	00 27 18.123	+05 25 40.34	18.5	T		F51
57P	2015 07 31.49474	00 27 18.580	+05 25 42.49	18.3	T		F51
57P	2015 07 31.50779	00 27 19.045	+05 25 44.78	18.5	T		F51
57P	2015 07 31.52007	00 27 19.490	+05 25 46.92	18.3	T		F51
57P	2015 08 06.29782	00 30 29.28	+05 38 14.0	16.7	N		W96
57P	2015 08 06.32766	00 30 30.04	+05 38 16.9	16.7	N		W96
57P	2015 08 07.66707	00 31 04.30	+05 39 58.4	17.0	N		Q68
57P	2015 08 07.72696	00 31 05.54	+05 40 02.0	17.1	N		Q68
57P	2015 08 07.95602	00 31 11.25	+05 40 04.9	18.3	N		A71
57P	2015 08 07.97012	00 31 11.58	+05 40 06.6	17.9	N		A71
57P	2015 08 07.98772	00 31 11.99	+05 40 07.7	17.6	N		A71
57P	2015 08 08.62152	00 31 26.47	+05 40 52.6	16.7	N		30D90
57P	2015 08 08.62282	00 31 26.52	+05 40 52.8	16.7	N		30D90
57P	2015 08 08.62674	00 31 26.62	+05 40 53.0	16.7	N		30D90
57P	2015 08 08.64014	00 31 26.76	+05 40 53.4	17.0	N		Q68
57P	2015 08 08.64316	00 31 26.82	+05 40 53.4	17.0	N		Q68
57P	2015 08 09.98567	00 31 54.43	+05 41 36.0	18.3	N		A71
57P	2015 08 09.99729	00 31 54.67	+05 41 36.6	17.6	N		A71
57P	2015 08 10.00891	00 31 54.84	+05 41 36.9	18.3	N		A71
57P	2015 08 10.39328	00 32 01.85	+05 41 48.0	16.9	N		H47
57P	2015 08 10.40075	00 32 02.00	+05 41 48.0	17.0	N		H47
57P	2015 08 10.41100	00 32 02.15	+05 41 48.3	17.0	N		H47
57P	2015 08 10.62729	00 32 06.35	+05 42 01.7	17.1	N		Q68
57P	2015 08 10.71900	00 32 07.72	+05 42 03.0	17.1	N		Q68
57P	2015 08 11.02934	00 32 13.31	+05 41 57.8	17.3	N	K	C23
57P	2015 08 11.03641	00 32 13.38	+05 41 56.7	16.9	N	K	C23
57P	2015 08 12.04533	00 32 29.39	+05 42 02.5	18.3	N	K	160
57P	2015 08 12.04770	00 32 29.42	+05 42 02.5	18.4	N	K	160
57P	2015 08 12.05007	00 32 29.46	+05 42 02.7	18.3	N	K	160
57P	2015 08 13.03745	00 32 43.05	+05 41 52.5	18.4	N	K	160
57P	2015 08 13.03980	00 32 43.09	+05 41 51.9	18.3	N	K	160
57P	2015 08 13.04215	00 32 43.07	+05 41 51.8	18.3	N	K	160
57P	2015 08 15.17766	00 33 05.16	+05 40 39.4	16.9	N		J22
57P	2015 08 15.18154	00 33 05.20	+05 40 39.7	16.9	N		J22
57P	2015 08 15.18535	00 33 05.22	+05 40 39.8	16.9	N		J22
57P	2015 08 19.70274	00 33 20.70	+05 34 21.6	17.0	N		Q68
57P	2015 08 19.76777	00 33 20.43	+05 34 13.5	17.1	N		Q68
57P	2015 08 20.01789	00 33 20.41	+05 33 31.6	17.0	N		C23
57P	2015 08 20.02463	00 33 20.47	+05 33 31.2	16.6	N		C23
57P	2015 08 20.03213	00 33 20.28	+05 33 29.6	17.0	N		C23
57P	2015 08 22.10860	00 33 12.08	+05 28 42.7	16.8	N		J22
57P	2015 08 22.11303	00 33 12.06	+05 28 41.9	16.8	N		J22
57P	2015 08 22.11769	00 33 12.00	+05 28 41.2	16.8	N		J22
57P	2015 08 23.20021	00 33 04.32	+05 25 42.4	17.4	N		G30
57P	2015 08 23.21939	00 33 04.12	+05 25 40.1	17.3	N		G30
57P	2015 08 23.23889	00 33 04.04	+05 25 37.0	17.4	N		G30
57P	2015 08 25.94507	00 32 34.68	+05 17 01.0	17.5	N	K	K61
57P	2015 08 25.94738	00 32 34.57	+05 17 01.1	17.7	N	K	K61
57P	2015 08 25.95080	00 32 34.55	+05 17 00.5	17.3	N	K	K61

61P/Shajn-Schaldach

61P	2015 05 23.81083	00 00 50.69	+00 36 03.6			1	Q62
61P	2015 05 23.81391	00 00 50.98	+00 36 05.6	17.8	T	1	Q62
61P	2015 06 28.07362	01 00 14.90	+05 40 14.3	18.5	N	K	160
61P	2015 06 28.07595	01 00 15.10	+05 40 17.4	17.6	N	K	160
61P	2015 06 28.07829	01 00 15.34	+05 40 18.5	18.1	N	K	160
61P	2015 07 11.06039	01 20 49.59	+07 09 46.5	18.4	N	K	160
61P	2015 07 11.06244	01 20 49.80	+07 09 47.8	18.4	N	K	160
61P	2015 07 11.06463	01 20 49.82	+07 09 46.8	17.4	N	K	160
61P	2015 07 11.72443	01 21 50.88	+07 13 54.4	17.4	T		D95
61P	2015 07 11.73090	01 21 51.49	+07 13 56.7				D95
61P	2015 07 11.73197	01 21 51.58	+07 13 57.0				D95
61P	2015 07 13.05762	01 23 53.49	+07 22 01.9	17.2	N	K	160
61P	2015 07 13.05997	01 23 53.69	+07 22 03.0	17.6	N	K	160
61P	2015 07 13.06232	01 23 53.96	+07 22 04.1	18.3	N	K	160
61P	2015 07 13.09028	01 23 56.46	+07 22 14.4	18.1	N	K	958
61P	2015 07 13.09910	01 23 57.30	+07 22 17.5	18.5	N	K	958
61P	2015 07 13.10792	01 23 58.07	+07 22 19.8	17.5	N	K	958
61P	2015 07 16.34254	01 28 51.67	+07 41 21.5	17.0	N	K	W96
61P	2015 07 16.36807	01 28 53.92	+07 41 29.9	17.3	N		W96
61P	2015 07 16.91500	01 29 42.99	+07 44 32.3	19	T		C51

Geocentric position (km) + 5508.2953 + 3817.5820 + 1509.6792

61P	2015 07 17.10327	01 30 00.13	+07 45 34.4	17.6	N	K	A77
61P	2015 07 17.10761	01 30 00.42	+07 45 35.4	17.4	N	K	A77
61P	2015 07 17.11195	01 30 00.75	+07 45 37.5	17.5	N	K	A77
61P	2015 07 17.30139	01 30 17.83	+07 46 44.3	17.5	N		KW96
61P	2015 07 17.30860	01 30 18.65	+07 46 46.9				C51
Geocentric position (km)	+ 5473.9318	+ 3854.8117	+ 1539.4888				
61P	2015 07 17.32977	01 30 20.35	+07 46 53.9	17.8	N		KW96
61P	2015 07 17.35815	01 30 22.83	+07 47 02.8	18.0	N		KW96
61P	2015 07 17.50547	01 30 35.84	+07 47 51.1				C51
Geocentric position (km)	+ 5467.6073	+ 3874.1495	+ 1513.2920				
61P	2015 07 17.57104	01 30 41.61	+07 48 11.2				C51
Geocentric position (km)	+ 5458.2644	+ 3880.0438	+ 1531.6879				
61P	2015 07 17.63662	01 30 47.55	+07 48 31.4				C51
Geocentric position (km)	+ 5448.8858	+ 3885.8915	+ 1550.0226				
61P	2015 07 17.70233	01 30 53.38	+07 48 55.7				C51
Geocentric position (km)	+ 5461.0508	+ 3893.4239	+ 1487.3683				
61P	2015 07 17.76791	01 30 59.31	+07 49 17.5				C51
Geocentric position (km)	+ 5451.7711	+ 3899.3356	+ 1505.6766				
61P	2015 07 17.83349	01 31 04.99	+07 49 38.9				C51
Geocentric position (km)	+ 5442.4443	+ 3905.2054	+ 1523.9929				
61P	2015 07 17.89907	01 31 10.99	+07 50 00.6				C51
Geocentric position (km)	+ 5433.0683	+ 3911.0248	+ 1542.2779				
61P	2015 07 18.03035	01 31 22.63	+07 50 43.4				C51
Geocentric position (km)	+ 5435.8799	+ 3924.4594	+ 1497.8064				
61P	2015 07 18.05363	01 31 25.00	+07 50 48.6	17.6	N	K	160
61P	2015 07 18.05597	01 31 25.23	+07 50 48.8	18.4	N	K	160
61P	2015 07 18.05830	01 31 25.37	+07 50 49.3	17.4	N	K	160
61P	2015 07 18.29267	01 31 45.99	+07 52 09.3				C51
Geocentric position (km)	+ 5398.3115	+ 3947.5490	+ 1570.7624				
61P	2015 07 18.43553	01 31 58.75	+07 52 53.7	16.8	T		G45
61P	2015 07 18.44328	01 31 59.47	+07 52 56.1	17.0	T		G45
61P	2015 07 18.45086	01 32 00.05	+07 52 58.6	16.7	T		G45
61P	2015 07 18.45851	01 32 00.81	+07 53 01.4	17.1	T		G45
61P	2015 07 20.02098	01 34 19.18	+08 01 20.2	18.0	N	K	160
61P	2015 07 20.02330	01 34 19.38	+08 01 20.7	18.3	N	K	160
61P	2015 07 20.02561	01 34 19.59	+08 01 20.7	18.3	N	K	160
61P	2015 07 20.03924	01 34 20.76	+08 01 24.5	17.4	N	K	C23
61P	2015 07 20.04357	01 34 21.11	+08 01 27.3	17.5	N	K	C23
61P	2015 07 20.04646	01 34 21.27	+08 01 28.4	17.3	N	K	C23
61P	2015 07 20.09961	01 34 25.91	+08 01 44.7	17.7	N	K	K25
61P	2015 07 20.10548	01 34 26.48	+08 01 46.6	17.8	N	K	K25
61P	2015 07 21.03251	01 35 47.80	+08 06 34.0	18.1	N	K	160
61P	2015 07 21.03456	01 35 47.93	+08 06 34.6	18.2	N	K	160
61P	2015 07 21.03660	01 35 48.13	+08 06 35.2	18.6	N	K	160
61P	2015 07 21.10986	01 35 54.49	+08 06 58.1	17.8	N	K	K25
61P	2015 07 21.11694	01 35 55.06	+08 06 59.9	17.7	N	K	K25
61P	2015 07 22.14481	01 37 23.89	+08 12 08.7	16.4	T	17	I89
61P	2015 07 22.14621	01 37 24.30	+08 12 09.8	17.9	N	17	I89
61P	2015 07 25.11722	01 41 39.26	+08 26 23.7	17.3	N	K	A77
61P	2015 07 25.12123	01 41 39.62	+08 26 25.2	17.3	N	K	A77
61P	2015 07 25.12519	01 41 39.94	+08 26 26.3	17.3	N	K	A77
61P	2015 07 26.04778	01 42 57.75	+08 30 35.3	16.3	N	K	C23
61P	2015 07 26.05003	01 42 58.18	+08 30 37.6	17.7	N	K	C23
61P	2015 07 29.02944	01 47 05.75	+08 43 21.9	17.4	N		583
61P	2015 07 29.02987	01 47 05.84	+08 43 21.6	17.3	N		583
61P	2015 07 29.03196	01 47 06.05	+08 43 22.8	17.4	N		583
61P	2015 07 29.03265	01 47 06.12	+08 43 22.9	17.3	N		583
61P	2015 07 29.03334	01 47 06.13	+08 43 22.8	17.4	N		583
61P	2015 07 29.03404	01 47 06.28	+08 43 22.7	17.3	N		583
61P	2015 07 29.03760	01 47 06.47	+08 43 23.7	17.0	N		583
61P	2015 07 29.03830	01 47 06.52	+08 43 23.1	17.2	N		583
61P	2015 07 29.03899	01 47 06.60	+08 43 24.0	17.4	N		583
61P	2015 07 29.04038	01 47 06.76	+08 43 24.5	17.7	N		583
61P	2015 07 29.04650	01 47 07.20	+08 43 25.8	17.1	N		583
61P	2015 07 29.04720	01 47 07.25	+08 43 26.1	16.9	N		583
61P	2015 07 29.05025	01 47 07.45	+08 43 27.0	17.1	N		583
61P	2015 07 29.05442	01 47 07.94	+08 43 27.7	17.5	N		583
61P	2015 07 30.37611	01 48 55.77	+08 48 45.4	17.3	N	K	H47
61P	2015 07 30.39116	01 48 56.99	+08 48 48.8	17.6	N	K	H47
61P	2015 07 30.40986	01 48 58.47	+08 48 53.1	17.5	N	K	H47
61P	2015 08 06.99747	01 58 50.87	+09 14 20.0	17.9	N	K	160
61P	2015 08 06.99998	01 58 51.11	+09 14 20.7	18.1	N	K	160
61P	2015 08 07.00247	01 58 51.23	+09 14 19.4	17.2	N	K	160
61P	2015 08 07.69288	01 59 42.70	+09 16 21.3	17.1	N		Q68
61P	2015 08 07.75249	01 59 46.97	+09 16 30.5	17.5	N		Q68
61P	2015 08 08.05433	02 00 09.38	+09 17 12.2	18.4	N		A71
61P	2015 08 08.06564	02 00 10.23	+09 17 13.3	18.5	N		A71
61P	2015 08 08.07977	02 00 11.26	+09 17 16.2	18.3	N		A71
61P	2015 08 10.68058	02 03 20.03	+09 23 44.2	17.5	N		Q68
61P	2015 08 10.74232	02 03 24.36	+09 23 52.5	17.6	N		Q68
61P	2015 08 11.06126	02 03 47.13	+09 24 27.8	16.6	N	K	C23
61P	2015 08 11.06876	02 03 47.66	+09 24 28.0	17.0	N	K	C23
61P	2015 08 12.08935	02 04 59.45	+09 26 37.1	18.2	N	K	160
61P	2015 08 12.09171	02 04 59.64	+09 26 38.5	18.3	N	K	160
61P	2015 08 12.09408	02 04 59.82	+09 26 38.4	18.2	N	K	160
61P	2015 08 13.00937	02 06 03.31	+09 28 24.4	18.3	T	K	215
61P	2015 08 13.01064	02 06 03.40	+09 28 24.6	18.3	T	K	215
61P	2015 08 13.01192	02 06 03.52	+09 28 25.7	17.9	T	K	215
61P	2015 08 13.07022	02 06 07.64	+09 28 33.0	17.4	N	K	160
61P	2015 08 13.07256	02 06 07.68	+09 28 33.1	17.5	N	K	160
61P	2015 08 13.07490	02 06 07.76	+09 28 32.9	17.2	N	K	160
61P	2015 08 13.30509	02 06 23.60	+09 29 05.0	17.0	N		W96
61P	2015 08 13.35514	02 06 26.91	+09 29 09.2	17.0	N		W96
61P	2015 08 15.34641	02 08 41.22	+09 32 28.8	17.5	N		KW96
61P	2015 08 15.36109	02 08 42.20	+09 32 29.7	17.5	N		KW96
61P	2015 08 15.37576	02 08 43.07	+09 32 30.5	17.3	N		KW96
61P	2015 08 17.14449	02 10 38.80	+09 34 50.1	17.2	N		J22
61P	2015 08 17.14772	02 10 38.98	+09 34 50.2	17.2	N		J22
61P	2015 08 17.15089	02 10 39.17	+09 34 50.3	17.2	N		J22
61P	2015 08 19.72954	02 13 20.84	+09 37 30.6	17.2	N		Q68
61P	2015 08 19.78895	02 13 24.40	+09 37 32.8	17.2	N		Q68
61P	2015 08 20.04093	02 13 39.90	+09 37 37.4	17.0	N		C36
61P	2015 08 20.04308	02 13 40.07	+09 37 38.3	17.4	N		C36
61P	2015 08 20.04523	02 13 40.31	+09 37 37.9	17.0	N		C36
61P	2015 08 21.05753	02 14 41.24	+09 38 16.8	16.9	N		C10
61P	2015 08 21.08159	02 14 42.63	+09 38 17.6	16.9	N		C10

61P	2015 08 21.10669	02 14 44.04	+09 38 18.3	16.9	N	C10
61P	2015 08 22.04576	02 15 39.53	+09 38 46.6			B96
61P	2015 08 22.04742	02 15 39.62	+09 38 45.8			B96
61P	2015 08 22.04907	02 15 39.74	+09 38 45.6			B96
61P	2015 08 22.05073	02 15 39.81	+09 38 45.5	16.8	N	B96
61P	2015 08 22.05240	02 15 39.89	+09 38 46.0	17.7	N	B96
61P	2015 08 22.05405	02 15 39.91	+09 38 45.7	17.7	N	B96
61P	2015 08 22.05571	02 15 40.05	+09 38 45.9	17.4	N	B96
61P	2015 08 24.05894	02 17 34.39	+09 39 12.5	17.4	N	K I81
61P	2015 08 24.06175	02 17 34.54	+09 39 12.5	17.4	N	K I81
61P	2015 08 24.06459	02 17 34.69	+09 39 12.7	17.4	N	K I81
61P	2015 08 24.94012	02 18 23.08	+09 39 12.3	17.4	N	C36
61P	2015 08 24.94134	02 18 23.12	+09 39 12.5	16.3	N	C36
61P	2015 08 24.94256	02 18 23.26	+09 39 13.4	17.1	N	C36
61P	2015 08 24.94378	02 18 23.33	+09 39 11.9	16.9	N	C36
61P	2015 08 24.94501	02 18 23.32	+09 39 12.4	17.0	N	C36
61P	2015 08 24.94623	02 18 23.36	+09 39 12.7	16.4	N	C36
61P	2015 08 24.94745	02 18 23.53	+09 39 11.8	17.1	N	C36
61P	2015 08 25.15205	02 18 34.56	+09 39 13.2	17.4	N	9 G40
61P	2015 08 25.15464	02 18 34.69	+09 39 13.2	17.4	N	9 G40
61P	2015 08 25.16271	02 18 35.13	+09 39 13.3	17.2	N	9 G40
61P	2015 08 25.17942	02 18 36.00	+09 39 13.2	17.3	N	9 G40
61P	2015 08 25.18198	02 18 36.12	+09 39 13.1	17.3	N	9 G40
61P	2015 08 25.18286	02 18 36.17	+09 39 13.2	17.3	N	9 G40
61P	2015 08 25.99623	02 19 20.01	+09 39 01.3	16.8	N	K K61
61P	2015 08 25.99810	02 19 20.16	+09 39 01.2	17.0	N	K K61

67P/Churyumov-Gerasimenko

67P	2015 06 23.75584	03 12 35.66	+15 20 37.5	14.2	T	349
67P	2015 06 23.75813	03 12 36.12	+15 20 39.4			349
67P	2015 06 27.42427	03 25 33.89	+16 23 28.1	15.6	N	G39
67P	2015 06 27.42581	03 25 34.20	+16 23 29.7	15.4	N	G39
67P	2015 06 27.42734	03 25 34.57	+16 23 31.6	15.4	N	G39
67P	2015 06 27.42810	03 25 34.74	+16 23 32.2	15.5	N	G39
67P	2015 06 27.42963	03 25 35.05	+16 23 33.7	15.8	N	G39
67P	2015 06 27.43041	03 25 35.24	+16 23 34.3	15.5	N	G39
67P	2015 06 28.42368	03 29 08.94	+16 40 11.3	14.9	N	G39
67P	2015 06 28.42449	03 29 09.10	+16 40 11.6	15.1	N	G39
67P	2015 06 28.42525	03 29 09.27	+16 40 12.4	14.8	N	G39
67P	2015 06 28.42603	03 29 09.43	+16 40 13.3	13.9	N	G39
67P	2015 06 28.42757	03 29 09.80	+16 40 15.1	15.7	N	G39
67P	2015 06 28.42834	03 29 09.93	+16 40 15.4	14.4	N	G39
67P	2015 06 28.42911	03 29 10.15	+16 40 16.3	15.1	N	G39
67P	2015 06 29.42221	03 32 45.34	+16 56 42.5	15.4	N	G39
67P	2015 06 29.42299	03 32 45.41	+16 56 43.5	15.6	N	G39
67P	2015 06 29.42375	03 32 45.63	+16 56 43.9	15.6	N	G39
67P	2015 06 29.42610	03 32 46.01	+16 56 44.8	15.5	N	G39
67P	2015 06 29.42687	03 32 46.12	+16 56 45.5	14.7	N	G39
67P	2015 06 30.42293	03 36 23.03	+17 13 05.1	15.0	N	G39
67P	2015 06 30.42369	03 36 23.09	+17 13 06.8	15.5	N	G39
67P	2015 06 30.42450	03 36 23.32	+17 13 06.8	15.1	N	G39
67P	2015 06 30.42681	03 36 23.81	+17 13 09.1	15.2	N	G39
67P	2015 06 30.42757	03 36 23.96	+17 13 09.4	14.9	N	G39
67P	2015 06 30.42833	03 36 24.13	+17 13 09.3	15.1	N	G39
67P	2015 06 30.43066	03 36 24.58	+17 13 12.3	15.3	N	G39
67P	2015 06 30.43142	03 36 24.83	+17 13 13.1	13.9	N	G39
67P	2015 07 01.18441	03 39 09.67	+17 25 19.9	15.4	N	9 G40
67P	2015 07 01.19098	03 39 11.14	+17 25 26.5	15.3	N	9 G40
67P	2015 07 01.19786	03 39 12.63	+17 25 33.2	15.2	N	9 G40
67P	2015 07 01.20478	03 39 14.14	+17 25 39.5	15.4	N	9 G40
67P	2015 07 01.21351	03 39 16.06	+17 25 48.2	15.4	N	9 G40
67P	2015 07 03.21287	03 46 37.19	+17 57 37.7	15.1	N	9 G40
67P	2015 07 03.21365	03 46 37.37	+17 57 38.5	15.1	N	9 G40
67P	2015 07 03.21442	03 46 37.53	+17 57 38.8	15.1	N	9 G40
67P	2015 07 03.21652	03 46 37.99	+17 57 40.9	15.2	N	9 G40
67P	2015 07 04.85189	03 52 42.39	+18 23 09.0	14.5	N	30D90
67P	2015 07 04.85403	03 52 42.94	+18 23 11.5	14.5	N	30D90
67P	2015 07 04.85618	03 52 43.34	+18 23 13.0	14.5	N	30D90
67P	2015 07 05.42287	03 54 50.45	+18 31 51.0	13.8	N	G39
67P	2015 07 05.42441	03 54 50.82	+18 31 52.8	14.4	N	G39
67P	2015 07 05.42522	03 54 51.00	+18 31 53.6	13.7	N	G39
67P	2015 07 05.42676	03 54 51.37	+18 31 55.1	15.1	N	G39
67P	2015 07 05.42830	03 54 51.71	+18 31 56.8	15.3	N	G39
67P	2015 07 05.42907	03 54 51.90	+18 31 57.9	15.2	N	G39
67P	2015 07 05.43138	03 54 52.39	+18 31 59.5	15.1	N	G39
67P	2015 07 05.43215	03 54 52.56	+18 32 00.2	15.3	N	G39
67P	2015 07 06.21277	03 57 48.31	+18 43 43.7	15.1	N	9 G40
67P	2015 07 06.21434	03 57 48.68	+18 43 45.2	15.2	N	9 G40
67P	2015 07 06.21649	03 57 49.13	+18 43 47.2	15.2	N	9 G40
67P	2015 07 06.21726	03 57 49.33	+18 43 47.7	15.1	N	9 G40
67P	2015 07 06.40763	03 58 32.18	+18 46 43.0	14.5	N	W96
67P	2015 07 06.43282	03 58 37.84	+18 47 06.1	14.4	N	W96
67P	2015 07 08.40421	04 06 05.32	+19 16 07.7	14.5	N	W96
67P	2015 07 08.42303	04 06 09.74	+19 16 24.3	15.3	N	G39
67P	2015 07 08.42381	04 06 09.91	+19 16 24.8	14.8	N	G39
67P	2015 07 08.42538	04 06 10.17	+19 16 27.0	15.3	N	G39
67P	2015 07 08.42616	04 06 10.35	+19 16 27.4	15.3	N	G39
67P	2015 07 08.42770	04 06 10.68	+19 16 29.0	15.3	N	G39
67P	2015 07 08.42846	04 06 10.88	+19 16 29.7	15.2	N	G39
67P	2015 07 08.42862	04 06 10.90	+19 16 29.5	14.5	N	W96
67P	2015 07 08.43078	04 06 11.36	+19 16 31.5	15.3	N	G39
67P	2015 07 08.43154	04 06 11.54	+19 16 32.0	15.4	N	G39
67P	2015 07 08.43231	04 06 11.76	+19 16 32.9	15.3	N	G39
67P	2015 07 09.21238	04 09 10.12	+19 27 40.6	15.1	N	9 G40
67P	2015 07 09.21586	04 09 10.89	+19 27 43.7	15.1	N	9 G40
67P	2015 07 09.21740	04 09 11.26	+19 27 44.9	15.1	N	9 G40
67P	2015 07 09.42293	04 09 58.31	+19 30 45.2	15.3	N	G39
67P	2015 07 09.42369	04 09 58.47	+19 30 45.6	15.2	N	G39
67P	2015 07 09.42447	04 09 58.65	+19 30 46.0	15.1	N	G39
67P	2015 07 09.42682	04 09 59.21	+19 30 48.8	14.8	N	G39
67P	2015 07 09.42758	04 09 59.39	+19 30 49.1	15.3	N	G39
67P	2015 07 09.42990	04 09 59.90	+19 30 51.7	15.4	N	G39
67P	2015 07 09.43067	04 10 00.08	+19 30 51.9	15.3	N	G39
67P	2015 07 09.43221	04 10 00.45	+19 30 52.8	14.9	N	G39
67P	2015 07 10.21677	04 13 00.68	+19 41 52.8	14.9	N	9 G40
67P	2015 07 10.21755	04 13 00.90	+19 41 52.9	15.0	N	9 G40

67P	2015 07 10.40589	04 13 44.23	+19 44 35.2	14.5	N	W96	67P	2015 07 16.42468	04 37 09.51	+21 03 22.4	14.1	N	G39
67P	2015 07 10.41462	04 13 46.22	+19 44 43.0	14.6	N	W96	67P	2015 07 16.42699	04 37 10.07	+21 03 23.6	14.2	N	G39
67P	2015 07 10.42306	04 13 48.20	+19 44 50.4	15.0	N	G39	67P	2015 07 16.42929	04 37 10.61	+21 03 25.6	14.2	N	G39
67P	2015 07 10.42541	04 13 48.68	+19 44 52.4	14.7	N	G39	67P	2015 07 16.43161	04 37 11.16	+21 03 27.1	14.7	N	G39
67P	2015 07 10.42554	04 13 48.75	+19 44 51.8	14.5	N	W96	67P	2015 07 17.12508	04 39 55.29	+21 11 43.2	14.4	N	K K25
67P	2015 07 10.42694	04 13 49.04	+19 44 53.5	14.8	N	G39	67P	2015 07 17.12805	04 39 56.05	+21 11 45.6	14.5	N	K K25
67P	2015 07 10.42847	04 13 49.37	+19 44 54.9	15.2	N	G39	67P	2015 07 17.21066	04 40 15.66	+21 12 45.8	14.6	N	9 G40
67P	2015 07 10.43002	04 13 49.75	+19 44 56.1	15.2	N	G39	67P	2015 07 17.21237	04 40 16.07	+21 12 47.1	14.6	N	9 G40
67P	2015 07 10.43079	04 13 49.96	+19 44 57.3	15.1	N	G39	67P	2015 07 17.21457	04 40 16.58	+21 12 48.6	14.6	N	9 G40
67P	2015 07 10.43233	04 13 50.25	+19 44 58.1	14.8	N	G39	67P	2015 07 17.21910	04 40 17.67	+21 12 51.9	14.6	N	9 G40
67P	2015 07 11.42299	04 17 39.03	+19 58 39.0	13.4	N	G39	67P	2015 07 17.22083	04 40 18.07	+21 12 53.2	14.7	N	9 G40
67P	2015 07 11.42376	04 17 39.14	+19 58 39.9	15.1	N	G39	67P	2015 07 17.40612	04 41 01.91	+21 15 09.4	14.5	N	W96
67P	2015 07 11.42534	04 17 39.60	+19 58 40.5	14.7	N	G39	67P	2015 07 17.41704	04 41 04.48	+21 15 17.2	14.5	N	W96
67P	2015 07 11.42689	04 17 39.98	+19 58 42.0	15.2	N	G39	67P	2015 07 17.42472	04 41 06.48	+21 15 23.4	14.4	N	G39
67P	2015 07 11.42843	04 17 40.30	+19 58 43.3	15.3	N	G39	67P	2015 07 17.42550	04 41 06.61	+21 15 23.8	14.7	N	G39
67P	2015 07 11.42995	04 17 40.61	+19 58 44.6	14.9	N	G39	67P	2015 07 17.42780	04 41 07.13	+21 15 25.3	14.5	N	G39
67P	2015 07 11.43073	04 17 40.83	+19 58 45.1	14.7	N	G39	67P	2015 07 17.43012	04 41 07.68	+21 15 27.4	14.3	N	G39
67P	2015 07 11.43227	04 17 41.17	+19 58 46.2	14.9	N	G39	67P	2015 07 17.43086	04 41 07.83	+21 15 27.9	14.4	N	W96
67P	2015 07 11.73755	04 18 51.91	+20 02 50.2	13.7	T	D95	67P	2015 07 18.21108	04 44 13.32	+21 24 32.0	14.6	N	9 G40
67P	2015 07 11.74412	04 18 53.41	+20 02 55.5			D95	67P	2015 07 18.21457	04 44 14.14	+21 24 34.5	14.7	N	9 G40
67P	2015 07 11.74704	04 18 54.11	+20 02 57.8			D95	67P	2015 07 18.21826	04 44 15.02	+21 24 37.1	14.7	N	9 G40
67P	2015 07 11.75638	04 18 56.31	+20 03 05.3	13.7	T	349	67P	2015 07 18.21997	04 44 15.43	+21 24 38.3	14.7	N	9 G40
67P	2015 07 11.75863	04 18 56.85	+20 03 07.4			349	67P	2015 07 18.77412	04 46 27.43	+21 31 00.9	13.5	T	349
67P	2015 07 13.11777	04 24 12.84	+20 21 18.6	14.9	N	958	67P	2015 07 18.77707	04 46 28.14	+21 31 02.8			349
67P	2015 07 13.13095	04 24 15.97	+20 21 29.5	15.0	N	958	67P	2015 07 18.78002	04 46 28.83	+21 31 04.8			349
67P	2015 07 13.14083	04 24 18.17	+20 21 36.7	14.8	N	958	67P	2015 07 19.21104	04 48 11.73	+21 35 58.3	14.7	N	9 G40
67P	2015 07 13.42284	04 25 24.03	+20 25 25.7	14.4	N	G39	67P	2015 07 19.21275	04 48 12.12	+21 35 59.4	14.6	N	9 G40
67P	2015 07 13.42519	04 25 24.55	+20 25 26.2	14.1	N	G39	67P	2015 07 19.21449	04 48 12.53	+21 36 00.5	14.6	N	9 G40
67P	2015 07 13.42750	04 25 25.02	+20 25 28.4	14.3	N	G39	67P	2015 07 19.42244	04 49 02.21	+21 38 25.9	14.9	N	G39
67P	2015 07 13.42981	04 25 25.66	+20 25 31.1	14.3	N	G39	67P	2015 07 19.42553	04 49 02.98	+21 38 28.3	14.8	N	G39
67P	2015 07 13.43213	04 25 26.21	+20 25 33.5	14.2	N	G39	67P	2015 07 19.42860	04 49 03.60	+21 38 30.0	15.0	N	G39
67P	2015 07 14.08781	04 27 59.56	+20 33 56.8			K 204	67P	2015 07 19.43167	04 49 04.35	+21 38 32.1	14.9	N	G39
67P	2015 07 14.09034	04 28 00.17	+20 33 59.3			K 204	67P	2015 07 20.08719	04 51 41.12	+21 45 41.4	14.2	N	C23
67P	2015 07 14.09287	04 28 00.72	+20 34 01.5	15.7	N	K 204	67P	2015 07 20.09347	04 51 42.71	+21 45 45.8	14.5	N	C23
67P	2015 07 14.76771	04 30 39.09	+20 42 40.2	12.9	T	372	67P	2015 07 20.09796	04 51 43.69	+21 45 48.3	14.4	N	C23
67P	2015 07 14.77257	04 30 40.22	+20 42 45.1			372	67P	2015 07 20.11625	04 51 48.21	+21 46 01.0	14.4	N	K K25
67P	2015 07 15.21057	04 32 23.19	+20 48 16.3	14.6	N	9 G40	67P	2015 07 20.12010	04 51 49.10	+21 46 03.6	14.4	N	K K25
67P	2015 07 15.21227	04 32 23.58	+20 48 17.6	14.6	N	9 G40	67P	2015 07 20.12424	04 51 50.12	+21 46 06.5	14.0	N	K K25
67P	2015 07 15.21399	04 32 24.00	+20 48 19.0	14.6	N	9 G40	67P	2015 07 20.42227	04 53 01.52	+21 49 27.4	15.4	N	G39
67P	2015 07 15.21819	04 32 24.96	+20 48 22.0	14.7	N	9 G40	67P	2015 07 20.42537	04 53 02.30	+21 49 29.3	15.0	N	G39
67P	2015 07 15.21990	04 32 25.38	+20 48 23.4	14.7	N	9 G40	67P	2015 07 20.42845	04 53 02.94	+21 49 31.6	15.1	N	G39
67P	2015 07 16.07580	04 35 46.90	+20 58 59.2	13.6	N	C10	67P	2015 07 20.43152	04 53 03.69	+21 49 33.9	15.0	N	G39
67P	2015 07 16.08791	04 35 49.87	+20 59 08.0	13.9	N	C10	67P	2015 07 21.21230	04 56 11.16	+21 57 51.2	14.6	N	9 G40
67P	2015 07 16.10012	04 35 52.75	+20 59 17.2	13.9	N	C10	67P	2015 07 21.21738	04 56 12.40	+21 57 54.7	14.7	N	9 G40
67P	2015 07 16.11327	04 35 55.93	+20 59 27.4	14.5	N	K K25	67P	2015 07 21.21994	04 56 13.00	+21 57 56.5	14.7	N	9 G40
67P	2015 07 16.11712	04 35 56.84	+20 59 30.2	14.4	N	K K25	67P	2015 07 21.40715	04 56 57.98	+21 59 58.7	14.4	N	W96
67P	2015 07 16.12097	04 35 57.77	+20 59 33.2	14.4	N	K K25	67P	2015 07 21.42252	04 57 01.66	+22 00 08.4	14.1	N	W96
67P	2015 07 16.21103	04 36 19.06	+21 00 40.7	14.6	N	9 G40	67P	2015 07 21.42392	04 57 02.04	+22 00 09.8	15.0	N	G39
67P	2015 07 16.21450	04 36 19.87	+21 00 43.1	14.7	N	9 G40	67P	2015 07 21.42778	04 57 03.02	+22 00 12.7	14.9	N	G39
67P	2015 07 16.21824	04 36 20.77	+21 00 46.1	14.7	N	9 G40	67P	2015 07 21.43086	04 57 03.74	+22 00 15.3	14.8	N	G39
67P	2015 07 16.21993	04 36 21.17	+21 00 47.3	14.7	N	9 G40	67P	2015 07 21.75809	04 58 22.43	+22 03 33.6			D81
67P	2015 07 16.22170	04 36 21.58	+21 00 48.6	14.8	N	9 G40	67P	2015 07 21.75873	04 58 22.58	+22 03 34.6			D81
67P	2015 07 16.42233	04 37 08.98	+21 03 20.2	14.5	N	G39	67P	2015 07 21.75936	04 58 22.71	+22 03 34.6			D81

67P	2015 07 21.75997	04 58 22.85	+22 03 35.0	13.3	T	D81
67P	2015 07 22.39830	05 00 56.65	+22 10 14.3	14.1	N	W96
67P	2015 07 22.42570	05 01 03.29	+22 10 31.9	14.0	N	W96
67P	2015 07 23.42164	05 05 03.84	+22 20 29.3	14.1	N	G39
67P	2015 07 23.42317	05 05 04.24	+22 20 30.9	15.0	N	G39
67P	2015 07 23.42550	05 05 04.83	+22 20 31.5	14.6	N	G39
67P	2015 07 24.12621	05 07 54.39	+22 27 12.6	14.7	N	A77
67P	2015 07 24.12807	05 07 54.93	+22 27 14.4	14.6	N	A77
67P	2015 07 24.12992	05 07 55.54	+22 27 14.1	14.3	N	A77
67P	2015 07 24.42416	05 09 06.62	+22 30 08.0	14.6	N	G39
67P	2015 07 24.42800	05 09 07.57	+22 30 11.0	14.7	N	G39
67P	2015 07 24.43108	05 09 08.17	+22 30 13.2	14.6	N	G39
67P	2015 07 25.16039	05 12 05.21	+22 36 54.5	13.7	N	J43
67P	2015 07 25.16990	05 12 07.57	+22 36 59.8	13.9	N	J43
67P	2015 07 25.18195	05 12 10.51	+22 37 06.6	13.9	N	J43
67P	2015 07 25.21667	05 12 18.97	+22 37 26.0	14.5	N	9 G40
67P	2015 07 25.21845	05 12 19.39	+22 37 27.0	14.5	N	9 G40
67P	2015 07 25.78906	05 14 38.05	+22 42 36.3			K 367
67P	2015 07 25.79028	05 14 38.34	+22 42 37.0			K 367
67P	2015 07 25.79190	05 14 38.74	+22 42 37.9	13.3	T	K 367
67P	2015 07 26.08877	05 15 50.93	+22 45 14.9	14.3	N	K C23
67P	2015 07 26.09477	05 15 52.39	+22 45 17.6	13.8	N	K C23
67P	2015 07 26.10076	05 15 53.86	+22 45 21.0	14.3	N	K C23
67P	2015 07 26.14231	05 16 04.02	+22 45 44.8	14.3	N	K J43
67P	2015 07 26.15449	05 16 06.96	+22 45 51.6	14.6	N	K J43
67P	2015 07 26.17128	05 16 11.08	+22 46 00.6	14.1	N	K J43
67P	2015 07 26.42184	05 17 12.09	+22 48 17.7	15.3	N	G39
67P	2015 07 26.42726	05 17 13.37	+22 48 20.5	15.1	N	G39
67P	2015 07 26.43109	05 17 14.35	+22 48 22.4	14.7	N	G39
67P	2015 07 26.75179	05 18 32.44	+22 51 02.7			D81
67P	2015 07 26.75238	05 18 32.55	+22 51 02.6			D81
67P	2015 07 26.75297	05 18 32.72	+22 51 03.3			D81
67P	2015 07 26.75361	05 18 32.87	+22 51 03.8	13.7	T	D81
67P	2015 07 27.14212	05 20 07.63	+22 54 22.8	14.0	N	I57
67P	2015 07 27.14383	05 20 08.03	+22 54 23.5	14.0	N	I57
67P	2015 07 27.14892	05 20 09.26	+22 54 25.6	14.0	N	I57
67P	2015 07 27.17427	05 20 15.47	+22 54 39.5	14.5	N	K J43
67P	2015 07 27.18625	05 20 18.40	+22 54 45.8	14.3	N	K J43
67P	2015 07 27.19822	05 20 21.30	+22 54 52.1	14.2	N	K J43
67P	2015 07 27.21487	05 20 25.40	+22 55 00.2	14.5	N	9 G40
67P	2015 07 27.21657	05 20 25.81	+22 55 01.0	14.5	N	9 G40
67P	2015 07 27.22172	05 20 27.07	+22 55 03.6	14.5	N	9 G40
67P	2015 07 27.22343	05 20 27.49	+22 55 04.6	14.5	N	9 G40
67P	2015 07 27.22520	05 20 27.92	+22 55 05.5	14.5	N	9 G40
67P	2015 07 27.42439	05 21 16.51	+22 56 50.1	15.2	N	G39
67P	2015 07 27.42516	05 21 16.73	+22 56 51.1	15.0	N	G39
67P	2015 07 27.42826	05 21 17.38	+22 56 52.0	14.6	N	G39
67P	2015 07 27.43133	05 21 18.16	+22 56 53.1	15.2	N	G39
67P	2015 07 28.11436	05 24 04.84	+23 02 23.8	14.3	N	K B51
67P	2015 07 28.11683	05 24 05.40	+23 02 25.2	14.4	N	K B51
67P	2015 07 28.21743	05 24 30.15	+23 03 14.9	14.5	N	9 G40
67P	2015 07 28.21833	05 24 30.39	+23 03 15.6	14.5	N	9 G40
67P	2015 07 28.22083	05 24 31.01	+23 03 16.8	14.5	N	9 G40
67P	2015 07 28.22515	05 24 32.04	+23 03 18.9	14.4	N	9 G40
67P	2015 07 28.42725	05 25 21.39	+23 05 00.9	15.2	N	G39
67P	2015 07 28.42801	05 25 21.59	+23 05 01.2	15.3	N	G39
67P	2015 07 28.42878	05 25 21.77	+23 05 01.0	15.1	N	G39
67P	2015 07 29.16762	05 28 22.53	+23 10 42.9	14.3	N	K J43
67P	2015 07 29.17742	05 28 24.92	+23 10 47.5	14.2	N	K J43
67P	2015 07 29.18725	05 28 27.32	+23 10 52.1	14.1	N	K J43
67P	2015 07 29.21412	05 28 33.89	+23 11 04.6	14.4	N	9 G40
67P	2015 07 29.21500	05 28 34.12	+23 11 05.0	14.5	N	9 G40
67P	2015 07 29.22084	05 28 35.56	+23 11 07.7	14.4	N	9 G40
67P	2015 07 29.22169	05 28 35.77	+23 11 08.1	14.4	N	9 G40
67P	2015 07 29.22517	05 28 36.61	+23 11 09.8	14.4	N	9 G40
67P	2015 07 29.40151	05 29 19.77	+23 12 34.0	14.2	N	W96
67P	2015 07 29.41426	05 29 22.81	+23 12 40.3	14.1	N	W96
67P	2015 07 29.42802	05 29 26.19	+23 12 46.7	14.3	N	W96
67P	2015 07 30.21873	05 32 39.96	+23 18 34.6	14.3	N	9 G40
67P	2015 07 30.22043	05 32 40.38	+23 18 35.5	14.2	N	9 G40
67P	2015 07 30.22432	05 32 41.33	+23 18 37.2	14.3	N	9 G40
67P	2015 07 30.22774	05 32 42.16	+23 18 38.5	14.4	N	9 G40
67P	2015 07 30.22863	05 32 42.40	+23 18 39.1	14.4	N	9 G40
67P	2015 07 31.09109	05 36 13.80	+23 24 44.7	13.8	N	C23
67P	2015 07 31.09484	05 36 14.71	+23 24 46.0	14.2	N	C23
67P	2015 07 31.10008	05 36 16.00	+23 24 48.3	14.2	N	C23
67P	2015 07 31.10118	05 36 16.30	+23 24 48.7	14.4	N	C23
67P	2015 07 31.11092	05 36 18.68	+23 24 52.9	14.5	N	C23
67P	2015 07 31.21742	05 36 44.89	+23 25 39.0	14.4	N	9 G40
67P	2015 07 31.21826	05 36 45.12	+23 25 39.5	14.5	N	9 G40
67P	2015 08 02.09964	05 44 27.09	+23 37 53.1	13.7	N	C10
67P	2015 08 02.11600	05 44 31.14	+23 37 59.2	13.7	N	C10
67P	2015 08 02.13282	05 44 35.21	+23 38 06.1	13.8	N	C10
67P	2015 08 02.21876	05 44 56.50	+23 38 38.7	14.3	N	9 G40
67P	2015 08 02.22134	05 44 57.12	+23 38 39.6	14.3	N	9 G40
67P	2015 08 02.22223	05 44 57.32	+23 38 40.0	14.4	N	9 G40
67P	2015 08 02.22433	05 44 57.83	+23 38 40.6	14.4	N	9 G40
67P	2015 08 02.22604	05 44 58.27	+23 38 41.6	14.3	N	9 G40
67P	2015 08 02.22777	05 44 58.69	+23 38 42.1	14.3	N	9 G40
67P	2015 08 03.09410	05 48 31.67	+23 43 48.1	13.6	N	C10
67P	2015 08 03.11035	05 48 35.63	+23 43 53.8	13.7	N	C10
67P	2015 08 03.11668	05 48 37.24	+23 43 56.3	14.1	N	K B51
67P	2015 08 03.11949	05 48 37.92	+23 43 57.5	14.1	N	K B51
67P	2015 08 03.12225	05 48 38.62	+23 43 58.4	14.1	N	K B51
67P	2015 08 03.12455	05 48 39.17	+23 43 59.1	14.1	N	K B51
67P	2015 08 03.12634	05 48 39.61	+23 43 59.8	14.1	N	K B51
67P	2015 08 03.12747	05 48 39.82	+23 44 00.0	13.7	N	C10
67P	2015 08 03.12833	05 48 40.09	+23 44 00.3	14.1	N	K B51
67P	2015 08 03.21948	05 49 02.56	+23 44 33.3	14.3	N	9 G40
67P	2015 08 03.22034	05 49 02.80	+23 44 33.4	14.4	N	9 G40
67P	2015 08 03.22212	05 49 03.20	+23 44 34.0	14.4	N	9 G40
67P	2015 08 03.22603	05 49 04.18	+23 44 35.6	14.4	N	9 G40
67P	2015 08 03.22777	05 49 04.60	+23 44 36.1	14.4	N	9 G40
67P	2015 08 04.21934	05 53 08.55	+23 50 03.3	14.1	N	9 G40
67P	2015 08 04.22108	05 53 08.97	+23 50 04.0	14.1	N	9 G40
67P	2015 08 04.22196	05 53 09.20	+23 50 04.3	14.1	N	9 G40

67P	2015 08 04.22601	05 53 10.20	+23 50 05.6	14.1	N	9 G40
67P	2015 08 04.22774	05 53 10.62	+23 50 06.2	14.1	N	9 G40
67P	2015 08 05.22089	05 57 15.03	+23 55 10.6	14.1	N	9 G40
67P	2015 08 05.22433	05 57 15.89	+23 55 11.6	14.1	N	9 G40
67P	2015 08 05.22780	05 57 16.74	+23 55 12.7	14.1	N	9 G40
67P	2015 08 05.22950	05 57 17.15	+23 55 13.2	14.1	N	9 G40
67P	2015 08 06.07551	06 00 45.26	+23 59 12.0	13.0	N	107
67P	2015 08 06.09109	06 00 49.11	+23 59 16.0	13.1	N	107
67P	2015 08 06.10719	06 00 53.03	+23 59 21.8	14.1	N	107
67P	2015 08 06.12579	06 00 57.65	+23 59 26.1	14.0	N	K B51
67P	2015 08 06.12941	06 00 58.54	+23 59 27.1	14.0	N	K B51
67P	2015 08 06.13295	06 00 59.43	+23 59 28.1	13.9	N	K B51
67P	2015 08 06.40925	06 02 07.47	+24 00 47.6	13.7	N	W96
67P	2015 08 06.42422	06 02 11.08	+24 00 51.7	13.8	N	W96
67P	2015 08 06.44544	06 02 16.37	+24 00 52.8	15.5	N	30H06
67P	2015 08 06.44789	06 02 17.00	+24 00 54.0	15.7	N	30H06
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67P	2015 08 07.09075	06 04 55.04	+24 03 39.2	14.5	N	B96
67P	2015 08 07.09575	06 04 56.31	+24 03 39.2	14.5	N	B96
67P	2015 08 07.10238	06 04 57.96	+24 03 41.0	14.7	N	B96
67P	2015 08 07.10736	06 04 59.16	+24 03 42.5	14.8	N	B96
67P	2015 08 07.22209	06 05 27.49	+24 04 12.4	14.2	N	9 G40
67P	2015 08 07.22295	06 05 27.68	+24 04 12.5	14.1	N	9 G40
67P	2015 08 07.22558	06 05 28.32	+24 04 13.0	14.1	N	9 G40
67P	2015 08 07.22778	06 05 28.90	+24 04 13.7	14.1	N	9 G40
67P	2015 08 07.22863	06 05 29.07	+24 04 13.7	14.1	N	9 G40
67P	2015 08 07.22949	06 05 29.31	+24 04 14.1	14.1	N	9 G40
67P	2015 08 07.39727	06 06 10.56	+24 04 59.2	13.7	N	W96
67P	2015 08 07.42248	06 06 16.73	+24 05 05.4	13.6	N	W96
67P	2015 08 07.44579	06 06 22.55	+24 05 06.8	15.5	N	30H06
67P	2015 08 07.44829	06 06 23.13	+24 05 07.7	15.3	N	30H06
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67P	2015 08 07.45319	06 06 24.31	+24 05 09.0	15.4	N	30H06
67P	2015 08 08.12840	06 09 10.29	+24 07 44.6	13.9	N	K B51
67P	2015 08 08.13000	06 09 10.71	+24 07 44.8	13.9	N	K B51
67P	2015 08 08.13260	06 09 11.34	+24 07 45.8	13.9	N	K B51
67P	2015 08 08.13523	06 09 11.99	+24 07 46.4	13.9	N	K B51
67P	2015 08 08.13719	06 09 12.44	+24 07 47.2	13.9	N	K B51
67P	2015 08 10.15810	06 17 28.93	+24 14 30.7	12.7	N	J01
67P	2015 08 10.16310	06 17 30.20	+24 14 31.9	13.4	N	J01
67P	2015 08 10.17148	06 17 32.33	+24 14 34.7	14.1	N	J01
67P	2015 08 11.10036	06 21 20.14	+24 17 07.0	14.1	N	C23
67P	2015 08 11.10331	06 21 20.87	+24 17 07.6	13.4	N	C10
67P	2015 08 11.10382	06 21 20.96	+24 17 07.5	13.9	N	C23
67P	2015 08 11.10815	06 21 22.07	+24 17 08.4	13.7	N	C23
67P	2015 08 11.11247	06 21 23.10	+24 17 08.9	13.9	N	C23
67P	2015 08 11.12374	06 21 25.87	+24 17 11.1	13.4	N	C10
67P	2015 08 11.14363	06 21 30.76	+24 17 14.3	13.4	N	C10
67P	2015 08 11.39297	06 22 31.97	+24 17 57.3	13.6	N	W96
67P	2015 08 11.42197	06 22 39.04	+24 18 01.6	13.7	N	W96
67P	2015 08 12.10155	06 25 25.52	+24 19 29.5	13.9	N	K C77
67P	2015 08 12.10435	06 25 26.13	+24 19 29.6	13.9	N	K C77
67P	2015 08 12.10995	06 25 27.47	+24 19 31.0	13.9	N	K C77
67P	2015 08 12.40086	06 26 38.74	+24 20 13.6	13.6	N	W96
67P	2015 08 12.42519	06 26 44.69	+24 20 15.8	13.6	N	W96
67P	2015 08 13.09502	06 29 28.47	+24 21 27.5	14.5	N	K 215
67P	2015 08 13.09629	06 29 28.79	+24 21 26.7	14.6	N	K 215
67P	2015 08 13.09757	06 29 29.09	+24 21 27.3	14.5	N	K 215
67P	2015 08 13.12056	06 29 34.74	+24 21 30.1	13.8	N	K B51
67P	2015 08 13.12308	06 29 35.37	+24 21 30.5	13.8	N	K B51
67P	2015 08 13.12583	06 29 36.05	+24 21 30.7	13.9	N	K B51
67P	2015 08 13.12820	06 29 36.62	+24 21 31.4	13.9	N	K B51
67P	2015 08 13.12990	06 29 37.03	+24 21 31.5	13.8	N	K B51
67P	2015 08 13.13213	06 29 37.58	+24 21 31.8	13.8	N	K B51
67P	2015 08 14.06262	06 33 24.76	+24 22 59.5	13.3	N	583
67P	2015 08 14.06331	06 33 24.92	+24 22 59.2	13.5	N	583
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67P	2015 08 14.06609	06 33 25.60	+24 22 59.6	13.4	N	583
67P	2015 08 14.06748	06 33 25.94	+24 23 00.1	13.5	N	583
67P	2015 08 14.06891	06 33 26.28	+24 23 00.1	13.5	N	583
67P	2015 08 14.07100	06 33 26.80	+24 23 00.2	13.6	N	583
67P	2015 08 14.07169	06 33 26.96	+24 23 00.3	13.5	N	583
67P	2015 08 14.07308	06 33 27.32	+24 23 00.5	13.7	N	583
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67P	2015 08 14.07677	06 33 28.22	+24 23 00.7	14.0	N	583
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67P	2015 08 14.08024	06 33 29.05	+24 23 01.2	14.4	N	583
67P	2015 08 15.20889	06 38 04.15	+24 24 21.8	14.1	N	9 G40
67P	2015 08 15.21044	06 38 04.53	+24 24 21.8	14.1	N	9 G40
67P	2015 08 15.22975	06 38 09.23	+24 24 22.8	14.0	N	9 G40
67P	2015 08 15.23052	06 38 09.42	+24 24 23.2	14.1	N	9 G40
67P	2015 08 15.23330	06 38 10.09	+24 24 23.3	14.1	N	9 G40
67P	2015 08 15.40765	06 38 52.25	+24 24 38.1	14.1	N	W96
67P	2015 08 15.41238	06 38 53.55	+24 24 38.2	14.0	N	W96
67P	2015 08 15.41721	06 38 54.70	+24 24 37.4	14.2	N	W96
67P	2015 08 16.12978	06 41 47.94	+24 25 03.4	13.9	N	K B51
67P	2015 08 16.13200	06 41 48.49	+24 25 03.1	13.8	N	K B51
67P	2015 08 16.13529	06 41 49.26	+24 25 03.5	13.8	N	K B51
67P	2015 08 16.13752	06 41 49.80	+24 25 03.5	13.9	N	K B51
67P	2015 08 16.23074	06 42 12.52	+24 25 08.1	14.0	N	9 G40
67P	2015 08 16.23252	06 42 12.94	+24 25 08.2	14.0	N	9 G40
67P	2015 08 16.23473	06 42 13.49	+24 25 08.2	14.0	N	9 G40
67P	2015 08 16.23645	06 42 13.91	+24 25 08.3	14.1	N	9 G40
67P	2015 08 16.23818	06 42 14.30	+24 25 08.3	14.1	N	9 G40
67P	2015 08 17.09674	06 45 42.47	+24 25 26.4	13.8	N	C77
67P	2015 08 17.09902	06 45 43.02	+24 25 26.4	13.8	N	C77
67P	2015 08 17.10168	06 45 43.68	+24 25 26.9	13.9	N	C77
67P	2015 08 17.21399	06 46 10.93	+24 25 29.5	14.0	N	9 G40
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67P	2015 08 17.46583	06 47 11.91	+24 25 31.6	14.0	N	30H06
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67P	2015 08 18.11397	06 49 48.53	+24 25 28.7	13.8	N	K B51
67P	2015 08 18.11714	06 49 49.29	+24 25 28.5	13.8	N	K B51
67P	2015 08 18.12104	06 49 50.24	+24 25 28.6	14.2	N	K B51
67P	2015 08 18.12530	06 49 51.14	+24 25 27.7	12.5	T	104
67P	2015 08 18.13015	06 49 52.29	+24 25 27.3	12.4	T	104
67P	2015 08 18.13070	06 49 52.64	+24 25 28.8	14.1	N	K A77
67P	2015 08 18.13547	06 49 53.64	+24 25 27.7	12.5	T	104
67P	2015 08 18.13586	06 49 53.88	+24 25 28.4	14.2	N	K A77
67P	2015 08 18.14296	06 49 55.64	+24 25 28.5	14.3	N	K A77
67P	2015 08 18.22873	06 50 16.31	+24 25 28.8	14.0	N	9 G40
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67P	2015 08 18.23559	06 50 17.98	+24 25 28.7	14.0	N	9 G40
67P	2015 08 19.01691	06 53 26.40	+24 25 09.4	13.6	N	C36
67P	2015 08 19.01814	06 53 26.71	+24 25 08.4	13.6	N	C36
67P	2015 08 19.01966	06 53 27.04	+24 25 09.1	13.9	N	C36
67P	2015 08 19.02042	06 53 27.21	+24 25 09.4	13.7	N	C36
67P	2015 08 19.02125	06 53 27.46	+24 25 09.1	14.0	N	C36
67P	2015 08 19.02223	06 53 27.64	+24 25 09.3	13.6	N	C36
67P	2015 08 19.02323	06 53 27.93	+24 25 09.8	13.9	N	C36
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67P	2015 08 19.12272	06 53 51.86	+24 25 06.3	13.4	N	C10
67P	2015 08 19.13351	06 53 54.37	+24 25 06.9	14.0	N	K A77
67P	2015 08 19.13362	06 53 54.42	+24 25 06.1	13.3	N	C10
67P	2015 08 19.13649	06 53 55.15	+24 25 07.0	13.8	N	K A77
67P	2015 08 19.14696	06 53 57.61	+24 25 06.2	13.6	N	C10
67P	2015 08 19.22874	06 54 17.40	+24 25 05.2	14.0	N	9 G40
67P	2015 08 19.22959	06 54 17.61	+24 25 05.3	14.0	N	9 G40
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67P	2015 08 19.44329	06 55 09.09	+24 24 56.6	14.8	N	30H06
67P	2015 08 19.44553	06 55 09.54	+24 24 57.1	14.4	N	30H06
67P	2015 08 19.44825	06 55 10.21	+24 24 56.5	14.6	N	30H06
67P	2015 08 19.45075	06 55 10.82	+24 24 56.3	14.7	N	30H06
67P	2015 08 20.01469	06 57 26.36	+24 24 28.0	13.9	N	C36
67P	2015 08 20.01620	06 57 26.68	+24 24 28.2	13.9	N	C36
67P	2015 08 20.01697	06 57 26.88	+24 24 28.2	13.8	N	C36
67P	2015 08 20.01773	06 57 27.08	+24 24 28.3	13.9	N	C36
67P	2015 08 20.01850	06 57 27.27	+24 24 28.2	13.9	N	C36
67P	2015 08 20.01925	06 57 27.46	+24 24 27.5	13.9	N	C36
67P	2015 08 20.02001	06 57 27.66	+24 24 27.4	13.8	N	C36
67P	2015 08 20.02078	06 57 27.85	+24 24 27.9	13.8	N	C36
67P	2015 08 20.09715	06 57 46.08	+24 24 23.5	14.3	N	C23
67P	2015 08 20.10239	06 57 47.31	+24 24 23.8	14.4	N	C23
67P	2015 08 20.10764	06 57 48.62	+24 24 23.0	14.4	N	C23
67P	2015 08 20.11850	06 57 51.17	+24 24 21.5	12.1	T	104
67P	2015 08 20.12182	06 57 51.84	+24 24 21.3	12.1	T	104
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67P	2015 08 20.23822	06 58 20.02	+24 24 18.7	13.5	N	J22
67P	2015 08 20.23977	06 58 20.37	+24 24 18.6	13.5	N	J22
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67P	2015 08 21.12698	07 01 52.86	+24 23 16.3	13.9	N	B51
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67P	2015 08 21.13420	07 01 54.63	+24 23 15.8	13.5	N	I57
67P	2015 08 21.16863	07 02 02.89	+24 23 14.5	13.6	N	I57
67P	2015 08 21.17234	07 02 03.75	+24 23 14.0	13.6	N	I57
67P	2015 08 21.45736	07 03 11.96	+24 22 51.8	14.2	N	30H06
67P	2015 08 21.46052	07 03 12.69	+24 22 51.2	13.5	N	30H06
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67P	2015 08 22.10057	07 05 45.29	+24 21 50.3	14.3	N	C23
67P	2015 08 22.10145	07 05 45.59	+24 21 50.7	14.5	N	B96
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67P	2015 08 22.10434	07 05 46.27	+24 21 49.8	14.5	N	B96
67P	2015 08 22.10450	07 05 46.25	+24 21 49.1	14.4	N	C23
67P	2015 08 22.10825	07 05 47.17	+24 21 49.0	14.3	N	C23
67P	2015 08 22.10916	07 05 47.45	+24 21 49.8	14.4	N	B96
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67P	2015 08 22.45152	07 07 09.06	+24 21 16.6	13.4	N	30H06
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67P	2015 08 23.12866	07 09 49.93	+24 19 57.9	14.2	N	B96
67P	2015 08 23.23219	07 10 14.60	+24 19 47.0	13.9	N	9 G40
67P	2015 08 23.23304	07 10 14.79	+24 19 46.8	13.9	N	9 G40
67P	2015 08 23.23823	07 10 16.02	+24 19 46.2	13.9	N	9 G40

67P	2015 08 24.09781	07 13 39.66	+24 17 49.8	14.1	N	I81
67P	2015 08 24.10341	07 13 41.05	+24 17 48.2	14.1	N	I81
67P	2015 08 24.10772	07 13 41.99	+24 17 48.5	14.2	N	I81
67P	2015 08 25.12111	07 17 41.05	+24 15 15.2	13.6	N	K B51
67P	2015 08 25.12395	07 17 41.75	+24 15 15.3	13.7	N	K B51
67P	2015 08 25.12642	07 17 42.27	+24 15 14.2	13.8	N	K B51
67P	2015 08 26.10271	07 21 31.75	+24 12 24.6	14.0	N	I81
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67P	2015 08 26.11023	07 21 33.59	+24 12 22.8	13.9	N	I81
67P	2015 08 26.12751	07 21 37.54	+24 12 20.8	13.9	N	K 215
67P	2015 08 26.12878	07 21 37.82	+24 12 20.5	14.3	N	K 215
67P	2015 08 26.13006	07 21 38.13	+24 12 20.4	13.8	N	K 215
67P	2015 08 26.23475	07 22 02.78	+24 12 02.8	13.9	N	9 G40
67P	2015 08 26.23559	07 22 02.96	+24 12 02.5	14.0	N	9 G40
67P	2015 08 26.81840	07 24 19.27	+24 10 10.1			K 367
67P	2015 08 26.81962	07 24 19.56	+24 10 09.8			K 367
67P	2015 08 26.82083	07 24 19.83	+24 10 09.8	11.9	T	K 367
67P	2015 08 27.40800	07 26 36.93	+24 08 14.4	13.5	N	W96
67P	2015 08 27.41567	07 26 38.71	+24 08 13.2	13.6	N	W96

70P/Kojima

70P	2015 07 18.28165	12 40 28.508	+02 31 24.77	20.4	T	F51
70P	2015 07 18.28550	12 40 28.787	+02 31 22.36	20.6	T	F51
70P	2015 07 18.28935	12 40 29.028	+02 31 20.53	20.3	T	F51

74P/Smirnova-Chernykh

74P	2015 08 14.43941	03 45 11.52	+16 08 40.1	20.3	T	G45
74P	2015 08 14.44689	03 45 11.70	+16 08 41.1	19.7	T	G45
74P	2015 08 14.45295	03 45 11.88	+16 08 41.3	19.6	T	G45
74P	2015 08 14.46440	03 45 12.23	+16 08 42.3	19.8	T	G45
74P	2015 08 15.44299	03 45 42.11	+16 10 11.2	19.6	T	G45
74P	2015 08 15.44885	03 45 42.35	+16 10 12.3	19.8	T	G45
74P	2015 08 15.46607	03 45 42.78	+16 10 13.7	19.5	T	G45
74P	2015 08 15.47183	03 45 43.06	+16 10 14.9	19.6	T	G45
74P	2015 08 17.21299	03 46 34.53	+16 12 46.5	19.5	N	J22
74P	2015 08 17.21686	03 46 34.75	+16 12 47.1	19.5	N	J22
74P	2015 08 17.22068	03 46 34.83	+16 12 47.4	19.5	N	J22
74P	2015 08 25.01051	03 49 58.98	+16 22 31.4	18.9	N	C36
74P	2015 08 25.01341	03 49 59.07	+16 22 31.1	18.9	N	C36
74P	2015 08 25.01778	03 49 59.08	+16 22 32.3	18.9	N	C36
74P	2015 08 25.02069	03 49 59.12	+16 22 31.5	18.9	N	C36
74P	2015 08 25.02506	03 49 59.32	+16 22 31.7	18.9	N	C36

88P/Howell

88P	2015 04 22.79220	22 53 04.23	−10 35 07.6	10.7	T	349
88P	2015 04 22.79638	22 53 05.05	−10 35 03.4			349
88P	2015 04 22.80056	22 53 05.82	−10 34 59.3			349
88P	2015 06 23.73096	01 32 38.25	+05 26 15.2	10.9	T	349
88P	2015 06 23.73317	01 32 38.53	+05 26 16.8			349
88P	2015 06 28.08185	01 41 16.23	+06 15 31.9	16.0	N	K 160
88P	2015 06 28.08460	01 41 16.56	+06 15 33.7	15.9	N	K 160
88P	2015 06 28.08735	01 41 16.85	+06 15 35.2	15.9	N	K 160
88P	2015 06 30.07945	01 45 06.71	+06 37 09.4	15.0	N	C23
88P	2015 06 30.08020	01 45 06.74	+06 37 09.4	14.7	N	C23
88P	2015 06 30.08170	01 45 06.92	+06 37 09.9	15.1	N	C23
88P	2015 06 30.08245	01 45 06.94	+06 37 10.4	15.1	N	C23
88P	2015 06 30.08319	01 45 07.09	+06 37 11.2	15.0	N	C23
88P	2015 06 30.08394	01 45 07.15	+06 37 11.6	15.1	N	C23
88P	2015 06 30.08469	01 45 07.21	+06 37 12.9	14.8	N	C23
88P	2015 07 07.06417	01 57 55.32	+07 47 49.3	15.0	N	C23
88P	2015 07 07.06867	01 57 55.78	+07 47 51.9	14.9	N	C23
88P	2015 07 07.07242	01 57 56.18	+07 47 54.1	15.3	N	C23
88P	2015 07 12.09077	02 06 31.18	+08 33 54.6	16.1	N	K 160
88P	2015 07 12.09322	02 06 31.42	+08 33 55.8	16.1	N	K 160
88P	2015 07 12.09594	02 06 31.68	+08 33 56.9	16.1	N	K 160
88P	2015 07 12.09668	02 06 31.76	+08 33 57.3	14.6	N	939
88P	2015 07 12.10241	02 06 32.32	+08 34 00.5	14.5	N	939
88P	2015 07 12.10814	02 06 32.89	+08 34 03.8	14.5	N	939
88P	2015 07 13.10059	02 08 10.86	+08 42 40.6	16.2	N	K 160
88P	2015 07 13.10307	02 08 11.10	+08 42 41.9	16.2	N	K 160
88P	2015 07 13.10555	02 08 11.33	+08 42 43.2	16.2	N	K 160
88P	2015 07 13.72865	02 09 12.20	+08 48 02.5			K D81
88P	2015 07 13.73459	02 09 12.74	+08 48 05.2			K D81
88P	2015 07 13.74049	02 09 13.30	+08 48 08.6			K D81
88P	2015 07 13.74645	02 09 13.88	+08 48 11.8	12.4	T	K D81
88P	2015 07 16.40398	02 13 27.33	+09 10 14.7	15.0	N	K H47
88P	2015 07 16.41045	02 13 27.90	+09 10 17.7	14.6	N	K H47
88P	2015 07 16.41707	02 13 28.53	+09 10 20.8	14.8	N	K H47
88P	2015 07 16.42374	02 13 29.15	+09 10 24.2	14.9	N	K H47
88P	2015 07 17.11606	02 14 33.55	+09 15 56.7	14.6	N	939
88P	2015 07 17.12002	02 14 33.91	+09 15 58.7	14.6	N	939
88P	2015 07 17.12596	02 14 34.45	+09 16 01.6	14.6	N	939
88P	2015 07 18.07715	02 16 01.89	+09 23 31.7	16.0	N	K 160
88P	2015 07 18.07962	02 16 02.11	+09 23 32.8	16.1	N	K 160
88P	2015 07 18.08210	02 16 02.35	+09 23 33.8	16.2	N	K 160
88P	2015 07 18.10995	02 16 04.85	+09 23 46.4	13.9	N	C10
88P	2015 07 18.11434	02 16 05.22	+09 23 49.0	14.2	N	C10
88P	2015 07 18.40958	02 16 32.12	+09 26 08.0	14.9	N	H47
88P	2015 07 18.41155	02 16 32.28	+09 26 08.9	14.9	N	H47
88P	2015 07 18.41345	02 16 32.46	+09 26 09.7	14.9	N	H47
88P	2015 07 18.41522	02 16 32.62	+09 26 10.6	14.9	N	H47
88P	2015 07 20.05333	02 18 59.38	+09 38 39.2	16.3	N	K 160
88P	2015 07 20.05579	02 18 59.60	+09 38 40.3	16.3	N	K 160
88P	2015 07 20.05826	02 18 59.85	+09 38 41.5	16.0	N	K 160
88P	2015 07 20.82680	02 20 07.11	+09 44 31.6	11.0	T	15Q62
88P	2015 07 20.82827	02 20 07.27	+09 44 32.1	14.5	N	15Q62
88P	2015 07 21.07301	02 20 28.75	+09 46 12.3	16.2	N	K 160
88P	2015 07 21.07573	02 20 28.99	+09 46 13.6	16.2	N	K 160
88P	2015 07 21.07845	02 20 29.26	+09 46 15.9	16.2	N	K 160
88P	2015 07 21.42805	02 20 59.47	+09 48 50.4	15.0	N	H47
88P	2015 07 21.43062	02 20 59.67	+09 48 51.7	15.0	N	H47
88P	2015 07 21.43310	02 20 59.91	+09 48 52.5	15.0	N	H47
88P	2015 07 21.43664	02 21 00.19	+09 48 54.1	15.0	N	H47
88P	2015 07 22.74576	02 22 52.11	+09 58 24.1	14.8	N	30D90
88P	2015 07 22.75049	02 22 52.50	+09 58 26.0	14.8	N	30D90
88P	2015 07 22.75524	02 22 52.89	+09 58 28.2	14.8	N	30D90
88P	2015 07 23.11867	02 23 23.53	+10 00 55.0	15.9	N	J01

88P	2015 07 23.12734	02 23 24.22	+10 00 58.8	16.0	N	J01
88P	2015 07 23.14179	02 23 25.42	+10 01 04.5	15.8	N	J01
88P	2015 07 23.30042	02 23 38.81	+10 02 17.4	14.9	N	W96
88P	2015 07 23.33803	02 23 41.85	+10 02 32.9	15.0	N	W96
88P	2015 07 25.10060	02 26 06.86	+10 14 31.4	14.8	N	A77
88P	2015 07 25.10382	02 26 07.13	+10 14 32.4	14.8	N	A77
88P	2015 07 25.10773	02 26 07.45	+10 14 34.1	14.9	N	A77
88P	2015 07 25.11168	02 26 07.76	+10 14 36.0	14.9	N	A77
88P	2015 07 25.75694	02 26 59.71	+10 18 54.4			K 367
88P	2015 07 25.75816	02 26 59.80	+10 18 54.8			K 367
88P	2015 07 25.75937	02 26 59.90	+10 18 55.3	11.6	T	K 367
88P	2015 07 26.06275	02 27 24.06	+10 20 53.5	15.1	N	C23
88P	2015 07 26.06500	02 27 24.29	+10 20 55.0	15.4	N	C23
88P	2015 07 26.06800	02 27 24.49	+10 20 56.3	15.1	N	C23
88P	2015 07 26.11567	02 27 28.37	+10 21 16.7	15.8	N	K J43
88P	2015 07 26.12377	02 27 29.01	+10 21 19.7	15.8	N	K J43
88P	2015 07 26.13372	02 27 29.79	+10 21 24.0	13.2	T	K J43
88P	2015 07 26.69303	02 28 13.97	+10 25 01.1			D81
88P	2015 07 26.69363	02 28 13.99	+10 25 01.2			D81
88P	2015 07 26.69422	02 28 14.01	+10 25 02.3			D81
88P	2015 07 26.69481	02 28 14.12	+10 25 02.2	11.7	T	D81
88P	2015 07 27.12322	02 28 47.56	+10 27 49.7	14.6	N	I57
88P	2015 07 27.12500	02 28 47.70	+10 27 50.1	14.6	N	I57
88P	2015 07 27.13036	02 28 48.11	+10 27 50.8	14.6	N	I57
88P	2015 07 27.73056	02 29 34.61	+10 31 39.6	11.6	T	372
88P	2015 07 27.73438	02 29 34.89	+10 31 41.0			372
88P	2015 07 28.08802	02 30 01.95	+10 33 52.9	15.4	N	K B51
88P	2015 07 28.09381	02 30 02.37	+10 33 55.4	15.5	N	K B51
88P	2015 07 28.42457	02 30 27.57	+10 35 59.8	15.2	N	H47
88P	2015 07 28.42801	02 30 27.80	+10 36 01.3	15.2	N	H47
88P	2015 07 28.43993	02 30 28.69	+10 36 05.8	15.2	N	H47
88P	2015 07 29.38031	02 31 39.30	+10 41 56.5	15.2	N	W96
88P	2015 07 29.39457	02 31 40.34	+10 42 01.9	15.2	N	W96
88P	2015 07 30.14248	02 32 35.68	+10 46 25.5	15.4	N	9 G40
88P	2015 07 30.14332	02 32 35.73	+10 46 25.8	15.5	N	9 G40
88P	2015 07 30.14593	02 32 35.92	+10 46 26.9	15.4	N	9 G40
88P	2015 07 30.15512	02 32 36.59	+10 46 30.2	15.4	N	9 G40
88P	2015 07 30.15597	02 32 36.64	+10 46 30.4	15.4	N	9 G40
88P	2015 07 30.15766	02 32 36.77	+10 46 31.0	15.4	N	9 G40
88P	2015 07 30.15854	02 32 36.83	+10 46 31.4	15.4	N	9 G40
88P	2015 07 30.43509	02 32 56.87	+10 48 09.2	15.1	N	H47
88P	2015 07 30.43829	02 32 57.11	+10 48 10.4	15.2	N	H47
88P	2015 07 30.44130	02 32 57.24	+10 48 11.8	15.3	N	H47
88P	2015 08 03.09470	02 37 12.21	+11 08 41.2	15.5	N	K B51
88P	2015 08 03.10110	02 37 12.63	+11 08 43.2	15.5	N	K B51
88P	2015 08 07.76245	02 42 05.19	+11 32 04.5	15.2	N	Q68
88P	2015 08 07.77952	02 42 06.17	+11 32 09.3	15.2	N	Q68
88P	2015 08 08.08108	02 42 23.91	+11 33 25.7	15.5	N	K A77
88P	2015 08 08.08458	02 42 24.12	+11 33 25.9	15.5	N	K A77
88P	2015 08 08.08877	02 42 24.33	+11 33 27.5	15.5	N	K A77
88P	2015 08 08.09512	02 42 24.68	+11 33 28.8	15.5	N	K A77
88P	2015 08 09.40275	02 43 39.21	+11 39 22.5	15.3	N	K H47
88P	2015 08 09.41171	02 43 39.70	+11 39 24.8	15.2	N	K H47
88P	2015 08 09.41918	02 43 40.10	+11 39 26.8	15.2	N	K H47
88P	2015 08 09.71617	02 43 56.70	+11 40 50.4	15.0	N	30D90
88P	2015 08 09.72093	02 43 56.98	+11 40 51.6	15.0	N	30D90
88P	2015 08 09.72567	02 43 57.20	+11 40 53.3	15.0	N	30D90
88P	2015 08 10.05676	02 44 15.34	+11 42 11.1	15.6	N	A71
88P	2015 08 10.06025	02 44 15.53	+11 42 11.7	15.7	N	A71
88P	2015 08 10.06417	02 44 15.75	+11 42 12.9	15.7	N	A71
88P	2015 08 10.11098	02 44 18.31	+11 42 26.2	16.0	N	J01
88P	2015 08 10.12229	02 44 18.92	+11 42 29.2	16.0	N	J01
88P	2015 08 10.13359	02 44 19.52	+11 42 32.0	16.0	N	J01
88P	2015 08 10.42394	02 44 35.22	+11 43 46.5	15.3	N	K H47
88P	2015 08 10.42961	02 44 35.52	+11 43 47.9	15.3	N	K H47
88P	2015 08 10.43579	02 44 35.84	+11 43 49.6	15.3	N	K H47
88P	2015 08 10.75614	02 44 52.99	+11 45 16.8	15.3	N	Q68
88P	2015 08 10.76797	02 44 53.62	+11 45 19.8	15.3	N	Q68
88P	2015 08 11.13981	02 45 13.40	+11 46 45.6	14.8	N	J52
88P	2015 08 11.14414	02 45 13.63	+11 46 46.7	14.9	N	K J52
88P	2015 08 11.14630	02 45 13.72	+11 46 46.8	14.9	N	J52
88P	2015 08 11.32405	02 45 23.14	+11 47 36.9	15.2	N	W96
88P	2015 08 11.35420	02 45 24.65	+11 47 44.6	15.2	N	W96
88P	2015 08 12.11503	02 46 03.84	+11 50 42.8	16.6	N	K 160
88P	2015 08 12.11781	02 46 03.94	+11 50 43.1	16.7	N	K 160
88P	2015 08 12.12059	02 46 04.09	+11 50 43.8	16.7	N	K 160
88P	2015 08 13.04134	02 46 50.22	+11 54 18.9	16.2	N	K 215
88P	2015 08 13.04261	02 46 50.28	+11 54 19.2	16.2	N	K 215
88P	2015 08 13.04389	02 46 50.31	+11 54 20.1	16.2	N	K 215
88P	2015 08 13.09590	02 46 52.82	+11 54 32.5	16.5	N	K 160
88P	2015 08 13.09868	02 46 52.99	+11 54 33.4	16.5	N	K 160
88P	2015 08 13.10146	02 46 53.11	+11 54 33.8	16.5	N	K 160
88P	2015 08 13.10671	02 46 53.37	+11 54 34.6	15.4	N	K B51
88P	2015 08 13.10909	02 46 53.47	+11 54 35.3	15.5	N	K B51
88P	2015 08 13.11158	02 46 53.60	+11 54 36.0	15.5	N	K B51
88P	2015 08 13.11382	02 46 53.71	+11 54 36.6	15.4	N	K B51
88P	2015 08 13.36509	02 47 05.87	+11 55 40.7	15.2	N	W96
88P	2015 08 13.39391	02 47 07.22	+11 55 47.1	15.2	N	W96
88P	2015 08 13.40106	02 47 07.67	+11 55 43.4	15.3	N	H47
88P	2015 08 13.40474	02 47 07.86	+11 55 44.2	15.3	N	H47
88P	2015 08 13.40786	02 47 07.98	+11 55 45.0	15.3	N	H47
88P	2015 08 13.41192	02 47 08.19	+11 55 45.9	15.3	N	H47
88P	2015 08 13.41499	02 47 08.33	+11 55 46.5	15.3	N	H47
88P	2015 08 13.41826	02 47 08.47	+11 55 47.4	15.4	N	H47
88P	2015 08 13.99840	02 47 36.23	+11 57 55.8	15.0	N	083
88P	2015 08 14.00677	02 47 36.66	+11 57 59.3	15.1	N	083
88P	2015 08 14.01515	02 47 37.03	+11 58 00.9	15.0	N	083
88P	2015 08 16.11242	02 49 11.87	+12 05 26.1	15.5	N	K B51
88P	2015 08 16.11673	02 49 12.06	+12 05 27.0	15.5	N	K B51
88P	2015 08 16.11890	02 49 12.16	+12 05 27.5	15.4	N	K B51
88P	2015 08 16.12084	02 49 12.24	+12 05 27.9	15.5	N	K B51
88P	2015 08 16.12256	02 49 12.31	+12 05 28.2	15.5	N	K B51
88P	2015 08 16.15087	02 49 13.51	+12 05 35.2	15.2	N	I57
88P	2015 08 16.16674	02 49 14.18	+12 05 37.9	15.2	N	I57
88P	2015 08 16.17028	02 49 14.35	+12 05 39.3	15.2	N	I57
88P	2015 08 17.09836	02 49 53.72	+12 08 43.0	14.9	N	J22

88P	2015 08 17.10276	02 49 53.84	+12 08 43.5	14.9	N	J22
88P	2015 08 17.10419	02 49 53.93	+12 08 44.5	14.9	N	J22
88P	2015 08 18.09304	02 50 33.61	+12 11 51.3	15.4	N	K B51
88P	2015 08 18.09661	02 50 33.74	+12 11 52.1	15.5	N	K B51
88P	2015 08 18.10036	02 50 33.87	+12 11 52.7	15.5	N	K B51
88P	2015 08 18.10285	02 50 33.97	+12 11 53.2	15.6	N	K B51
88P	2015 08 18.12558	02 50 34.96	+12 11 58.7	15.7	N	9 G40
88P	2015 08 18.12644	02 50 35.00	+12 11 58.8	15.7	N	9 G40
88P	2015 08 18.12731	02 50 35.04	+12 11 59.0	15.6	N	9 G40
88P	2015 08 18.12822	02 50 35.07	+12 11 59.4	15.7	N	9 G40
88P	2015 08 21.08189	02 52 22.14	+12 20 27.4	15.5	N	K B51
88P	2015 08 21.08635	02 52 22.27	+12 20 28.1	15.4	N	K B51
88P	2015 08 21.09029	02 52 22.39	+12 20 28.7	15.4	N	K B51
88P	2015 08 21.09266	02 52 22.47	+12 20 29.2	15.4	N	K B51
88P	2015 08 21.09543	02 52 22.54	+12 20 29.7	15.5	N	K B51
88P	2015 08 21.09790	02 52 22.64	+12 20 29.9	15.4	N	K B51
88P	2015 08 22.06806	02 52 53.97	+12 23 00.7	15.6	N	A77
88P	2015 08 22.07140	02 52 54.04	+12 23 00.8	15.6	N	A77
88P	2015 08 22.07623	02 52 54.23	+12 23 01.5	15.6	N	A77
88P	2015 08 22.08730	02 52 54.52	+12 23 02.9	15.3	N	C23
88P	2015 08 22.09180	02 52 54.63	+12 23 03.5	15.4	N	C23
88P	2015 08 22.09779	02 52 54.81	+12 23 04.8	15.9	N	C23
88P	2015 08 22.11745	02 52 55.48	+12 23 09.5	14.8	N	K A77
88P	2015 08 22.12613	02 52 55.68	+12 23 09.4	15.5	N	K A77
88P	2015 08 22.13481	02 52 55.97	+12 23 11.4	15.4	N	K A77
88P	2015 08 25.06445	02 54 18.39	+12 29 54.4	15.6	N	K B51
88P	2015 08 25.06932	02 54 18.54	+12 29 54.8	15.4	N	K B51
88P	2015 08 25.07416	02 54 18.62	+12 29 55.6	15.5	N	K B51
88P	2015 08 25.07888	02 54 18.74	+12 29 55.9	15.6	N	K B51
88P	2015 08 26.76140	02 54 57.79	+12 33 15.3			K 367
88P	2015 08 26.76262	02 54 57.82	+12 33 15.4			K 367
88P	2015 08 26.76424	02 54 57.85	+12 33 15.7	12.1	T	K 367
88P	2015 08 26.79664	02 54 57.87	+12 33 15.5	13.3	T	D29
88P	2015 08 26.81075	02 54 58.22	+12 33 17.7	13.3	T	D29
88P	2015 08 26.82486	02 54 58.58	+12 33 19.6	13.2	T	D29
88P	2015 08 27.04910	02 55 03.95	+12 33 45.7	17.0	N	C47
88P	2015 08 27.05611	02 55 04.09	+12 33 46.0	16.9	N	C47
88P	2015 08 27.06348	02 55 04.22	+12 33 46.1	17.0	N	C47
88P	2015 08 27.06717	02 55 04.31	+12 33 47.1	17.0	N	C47

110P/Hartley

110P	2015 04 29.50045	07 26 00.53	+17 14 28.0	17.3	T	K D95
110P	2015 04 29.51016	07 26 01.24	+17 14 26.3			K D95

117P/Helin-Roman-Alu

117P	2015 07 04.72765	01 27 35.09	+01 38 00.9	16.8	N	30D90
117P	2015 07 04.73380	01 27 35.34	+01 38 02.4	16.8	N	30D90
117P	2015 07 04.73993	01 27 35.62	+01 38 02.8	16.8	N	30D90
117P	2015 07 06.34290	01 28 34.89	+01 42 26.7	16.6	N	W96
117P	2015 07 06.39405	01 28 36.58	+01 42 35.9	16.6	N	W96
117P	2015 07 13.27787	01 32 29.52	+01 59 03.8	17.9	T	Y00
117P	2015 07 13.28790	01 32 29.84	+01 59 04.8	17.9	T	Y00
117P	2015 07 13.30336	01 32 30.33	+01 59 07.3	17.9	T	Y00
117P	2015 07 19.69300	01 35 33.80	+02 10 48.8	16.7	N	30D90
117P	2015 07 19.69913	01 35 34.00	+02 10 49.7	16.7	N	30D90
117P	2015 07 19.70527	01 35 34.11	+02 10 50.1	16.7	N	30D90
117P	2015 07 23.14319	01 36 58.61	+02 15 35.2	15.7	T	17 I89
117P	2015 07 23.14572	01 36 58.63	+02 15 35.7	16.9	N	17 I89
117P	2015 07 26.05433	01 38 02.20	+02 18 49.4	16.9	N	K C23
117P	2015 07 26.05721	01 38 02.28	+02 18 49.9	17.1	N	K C23
117P	2015 07 26.06010	01 38 02.34	+02 18 48.4	16.5	N	K C23
117P	2015 07 31.57731	01 39 42.173	+02 22 57.72	18.3	T	F51
117P	2015 07 31.57797	01 39 42.178	+02 22 57.79	18.4	T	F51
117P	2015 07 31.58811	01 39 42.358	+02 22 57.99	18.0	T	F51
117P	2015 07 31.58877	01 39 42.370	+02 22 58.13	18.0	T	F51
117P	2015 07 31.59836	01 39 42.480	+02 22 58.35	18.4	T	F51
117P	2015 07 31.59903	01 39 42.489	+02 22 58.40	18.3	T	F51
117P	2015 07 31.60862	01 39 42.660	+02 22 58.75	18.0	T	F51
117P	2015 07 31.60929	01 39 42.671	+02 22 58.68	18.0	T	F51
117P	2015 08 07.68789	01 41 08.93	+02 24 19.0	16.9	N	Q68
117P	2015 08 07.74808	01 41 09.42	+02 24 18.5	16.9	N	Q68
117P	2015 08 09.80279	01 41 25.24	+02 23 51.1	16.6	N	30D90
117P	2015 08 09.80887	01 41 25.26	+02 23 51.0	16.6	N	30D90
117P	2015 08 09.81190	01 41 25.28	+02 23 50.8	16.6	N	30D90
117P	2015 08 10.32020	01 41 28.57	+02 23 39.4	16.7	N	W96
117P	2015 08 10.36707	01 41 28.75	+02 23 38.5	16.7	N	W96
117P	2015 08 10.64866	01 41 30.61	+02 23 32.9	16.8	N	Q68
117P	2015 08 10.73716	01 41 31.05	+02 23 31.1	16.9	N	Q68
117P	2015 08 11.05086	01 41 32.76	+02 23 19.5	16.9	N	K C23
117P	2015 08 11.05910	01 41 32.75	+02 23 18.6	16.5	N	K C23
117P	2015 08 12.07182	01 41 37.90	+02 22 51.6	17.7	N	K 160
117P	2015 08 12.07662	01 41 37.88	+02 22 51.1	17.8	N	K 160
117P	2015 08 13.00223	01 41 41.53	+02 22 20.0	17.3	T	K 215
117P	2015 08 13.00351	01 41 41.54	+02 22 19.9	17.3	T	K 215
117P	2015 08 13.00479	01 41 41.57	+02 22 20.2	17.4	T	K 215
117P	2015 08 13.06152	01 41 41.77	+02 22 18.4	17.6	N	K 160
117P	2015 08 13.06624	01 41 41.79	+02 22 18.6	17.7	N	K 160
117P	2015 08 15.21876	01 41 46.67	+02 20 49.4	16.7	N	J22
117P	2015 08 15.22074	01 41 46.69	+02 20 49.2	16.7	N	J22
117P	2015 08 15.22266	01 41 46.69	+02 20 49.1	16.7	N	J22
117P	2015 08 19.72254	01 41 41.82	+02 16 29.8	16.8	N	Q68
117P	2015 08 19.78414	01 41 41.54	+02 16 25.5	16.7	N	Q68
117P	2015 08 20.03560	01 41 40.75	+02 16 04.0	16.7	N	C23
117P	2015 08 20.04137	01 41 40.69	+02 16 03.7	16.7	N	C23
117P	2015 08 20.04859	01 41 40.66	+02 16 03.0	16.6	N	C23
117P	2015 08 22.01909	01 41 31.43	+02 13 35.0	17.0	N	B96
117P	2015 08 22.02405	01 41 31.44	+02 13 34.5	16.9	N	B96
117P	2015 08 22.02903	01 41 31.40	+02 13 34.3	16.9	N	B96
117P	2015 08 22.12278	01 41 30.90	+02 13 27.1	16.6	N	J22
117P	2015 08 22.12497	01 41 30.89	+02 13 27.0	16.6	N	J22
117P	2015 08 22.12715	01 41 30.89	+02 13 26.9	16.6	N	J22
117P	2015 08 23.01538	01 41 25.27	+02 12 13.7	16.9	N	B96
117P	2015 08 23.02036	01 41 25.24	+02 12 13.3	17.3	N	B96
117P	2015 08 23.02534	01 41 25.15	+02 12 12.1	17.3	N	B96
117P	2015 08 23.22971	01 41 23.78	+02 11 53.7	17.2	N	G30
117P	2015 08 23.24759	01 41 23.64	+02 11 51.9	17.2	N	G30
117P	2015 08 25.03359	01 41 09.52	+02 09 10.4	16.4	N	939

117P	2015 08 25.04227	01 41 09.50	+02 09 10.0	16.4	N		939
117P	2015 08 25.04662	01 41 09.47	+02 09 09.7	16.4	N		939
117P	2015 08 26.03153	01 41 00.32	+02 07 34.2	16.7	N	K	K61
117P	2015 08 26.03397	01 41 00.33	+02 07 34.6	17.0	N	K	K61
117P	2015 08 26.09606	01 40 59.73	+02 07 29.3			9	G40
117P	2015 08 26.09861	01 40 59.70	+02 07 28.8			9	G40
117P	2015 08 26.10037	01 40 59.69	+02 07 28.7	17.1	N	9	G40
117P	2015 08 26.12777	01 40 59.39	+02 07 25.8			9	G40
117P	2015 08 26.12865	01 40 59.38	+02 07 25.8			9	G40
117P	2015 08 27.23409	01 40 47.90	+02 05 34.9	16.5	N		W96
117P	2015 08 27.27722	01 40 47.26	+02 05 31.2	16.3	N		W96

124P/Mrkos

124P	2014 03 24.774545	11 11 56.50	+12 30 21.3	16.0	T	2	089
124P	2014 03 24.776088	11 11 56.29	+12 30 18.0	14.8	T	2	089
124P	2014 03 24.777627	11 11 56.09	+12 30 14.7	15.7	T	2	089
124P	2014 03 24.779166	11 11 55.90	+12 30 11.3	15.7	T	2	089
124P	2014 03 24.817479	11 11 51.05	+12 28 50.6	15.0	T	2	089
124P	2014 03 24.819016	11 11 50.86	+12 28 47.3	15.8	T	2	089
124P	2014 03 24.820556	11 11 50.66	+12 28 44.1	15.5	T	2	089
124P	2014 03 24.822095	11 11 50.47	+12 28 40.7	15.7	T	2	089
124P	2014 03 24.927731	11 11 37.08	+12 24 56.7	16.0	T	2	089
124P	2014 03 24.929271	11 11 36.90	+12 24 53.9	15.2	T	2	089
124P	2014 03 24.997338	11 11 28.33	+12 22 28.9	15.3	T	2	089
124P	2014 03 24.998877	11 11 28.12	+12 22 25.4	14.7	T	2	089
124P	2014 03 25.000417	11 11 27.93	+12 22 22.3	15.4	T	2	089
124P	2014 03 25.001956	11 11 27.74	+12 22 18.7	16.0	T	2	089
124P	2014 03 25.045255	11 11 22.34	+12 20 46.9	15.3	T	2	089
124P	2014 03 29.860974	11 02 02.51	+09 29 07.4	16.2	T	2	089
124P	2014 03 29.869307	11 02 01.53	+09 28 48.3	15.7	T	2	089
124P	2014 03 29.871192	11 02 01.37	+09 28 45.5	16.1	T	2	089
124P	2014 03 29.873079	11 02 01.15	+09 28 41.5	15.4	T	2	089
124P	2014 03 29.874966	11 02 00.91	+09 28 37.2	14.2	T	2	089
124P	2014 03 29.901947	11 01 57.85	+09 27 39.0	16.2	T	2	089
124P	2014 03 29.903832	11 01 57.67	+09 27 35.3	15.0	T	2	089
124P	2014 03 29.905718	11 01 57.47	+09 27 31.3	16.3	T	2	089
124P	2014 03 29.907605	11 01 57.23	+09 27 26.9	14.3	T	2	089
124P	2014 03 29.966530	11 01 50.58	+09 25 19.9	14.7	T	2	089
124P	2014 03 29.968414	11 01 50.41	+09 25 16.6	14.6	T	2	089
124P	2014 03 29.970301	11 01 50.16	+09 25 12.0	16.0	T	2	089
124P	2014 03 29.972188	11 01 49.98	+09 25 08.1	15.1	T	2	089
124P	2014 03 29.990636	11 01 47.85	+09 24 27.5	14.8	T	2	089
124P	2014 03 29.992523	11 01 47.66	+09 24 23.5	15.2	T	2	089

134P/Kowal-Vávrová

134P	2014 03 24.915254	14 10 25.65	−12 58 28.8	15.9	T	2	089
134P	2014 03 24.918333	14 10 25.57	−12 58 28.2	15.8	T	2	089
134P	2014 03 24.919873	14 10 25.55	−12 58 28.1	16.5	T	2	089
134P	2014 03 24.921412	14 10 25.55	−12 58 27.9	15.2	T	2	089
134P	2014 03 24.989158	14 10 24.92	−12 58 16.6	14.9	T	2	089
134P	2014 03 24.990694	14 10 24.90	−12 58 16.2	14.7	T	2	089
134P	2014 03 24.992233	14 10 24.89	−12 58 16.1	14.6	T	2	089
134P	2014 03 24.993773	14 10 24.88	−12 58 15.4	14.3	T	2	089
134P	2014 03 25.038464	14 10 24.45	−12 58 07.7	15.1	T	2	089
134P	2014 03 25.040000	14 10 24.43	−12 58 07.9	14.6	T	2	089
134P	2014 03 25.041539	14 10 24.43	−12 58 07.4	15.0	T	2	089
134P	2014 03 25.043078	14 10 24.39	−12 58 06.9	15.2	T	2	089
134P	2014 03 25.084991	14 10 24.00	−12 57 59.7	14.7	T	2	089
134P	2014 03 25.086539	14 10 24.04	−12 57 59.5	14.8	T	2	089
134P	2014 03 25.088078	14 10 23.99	−12 57 59.0	15.2	T	2	089
134P	2014 03 29.917243	14 09 31.69	−12 42 36.5	15.2	T	2	089
134P	2014 03 29.918784	14 09 31.67	−12 42 36.0	16.2	T	2	089
134P	2014 03 29.920324	14 09 31.64	−12 42 35.7	16.1	T	2	089
134P	2014 03 29.921863	14 09 31.62	−12 42 35.2	15.8	T	2	089
134P	2014 03 29.981826	14 09 30.70	−12 42 22.8	15.7	T	2	089
134P	2014 03 29.983368	14 09 30.67	−12 42 22.3	15.4	T	2	089
134P	2014 03 29.984907	14 09 30.66	−12 42 22.4	15.5	T	2	089
134P	2014 03 29.986447	14 09 30.63	−12 42 21.9	15.9	T	2	089
134P	2014 03 30.004048	14 09 30.36	−12 42 18.2	15.7	T	2	089
134P	2014 04 26.889908	13 58 35.29	−10 38 07.9	14.1	T	2	089
134P	2014 04 26.891447	13 58 35.25	−10 38 07.4	14.2	T	2	089
134P	2014 04 26.892986	13 58 35.19	−10 38 07.1	14.0	T	2	089
134P	2014 04 26.894526	13 58 35.15	−10 38 06.6	14.3	T	2	089
134P	2014 04 26.994861	13 58 32.26	−10 37 37.7	14.4	T	2	089
134P	2014 04 26.996400	13 58 32.24	−10 37 37.2	14.1	T	2	089
134P	2014 04 26.997940	13 58 32.16	−10 37 36.9	14.4	T	2	089
134P	2014 04 26.999479	13 58 32.13	−10 37 36.5	14.0	T	2	089
134P	2014 04 27.015910	13 58 31.66	−10 37 31.9	14.7	T	2	089
134P	2015 07 10.36053	21 10 42.84	−10 39 59.2				691
134P	2015 07 10.37941	21 10 42.23	−10 40 02.4				691
134P	2015 07 10.39828	21 10 41.66	−10 40 04.3				691
134P	2015 07 14.47719	21 08 35.397	−10 48 06.19	21.4	T		F51
134P	2015 07 14.49954	21 08 34.640	−10 48 08.80	21.0	T		F51
134P	2015 07 14.51073	21 08 34.234	−10 48 10.20	21.2	T		F51

136P/Mueller

136P	2015 07 11.48174	20 16 07.957	−15 19 32.85	20.9	T		F51
136P	2015 07 11.49359	20 16 07.517	−15 19 35.53	20.9	T		F51
136P	2015 07 11.50556	20 16 07.062	−15 19 38.34	21.1	T		F51
136P	2015 07 11.50621	20 16 07.036	−15 19 38.31	21.0	T		F51
136P	2015 07 11.51748	20 16 06.608	−15 19 41.00	21.1	T		F51
136P	2015 07 11.51813	20 16 06.579	−15 19 41.24	21.3	T		F51
136P	2015 08 11.32277	19 56 25.563	−17 31 25.75	21.1	T		F51
136P	2015 08 11.34491	19 56 24.766	−17 31 31.56	21.1	T		F51
136P	2015 08 11.35589	19 56 24.378	−17 31 34.44	21.0	T		F51
136P	2015 08 17.35534	19 53 10.185	−17 57 08.14	20.8	T		F51
136P	2015 08 17.36639	19 53 09.840	−17 57 11.12	20.7	T		F51
136P	2015 08 17.37742	19 53 09.488	−17 57 13.70	20.6	T		F51

141P/Machholz

141P	2015 07 11.02926	01 43 25.70	+31 33 49.9	19.8	T	K	215
141P	2015 07 11.03117	01 43 26.62	+31 33 54.5	19.8	T	K	215
141P	2015 07 11.03308	01 43 27.63	+31 33 59.1	19.0	T	K	215
141P	2015 07 14.06991	02 07 30.70	+33 16 32.6	17.6	N	K	A77
141P	2015 07 14.08071	02 07 35.90	+33 16 55.6	17.4	N	K	A77
141P	2015 07 16.11434	02 24 19.61	+34 16 03.9	17.4	N	K	A77
141P	2015 07 16.11811	02 24 21.28	+34 16 10.1	17.4	N	K	A77
141P	2015 07 16.12185	02 24 23.40	+34 16 16.5	17.3	N	K	A77

141P	2015 07 16.38091	02 26 32.89	+34 23 24.2	17.5	N	KW96
141P	2015 07 16.39772	02 26 41.09	+34 23 51.1	18.5	N	KW96
141P	2015 07 17.06816	02 32 18.66	+34 40 49.7	17.4	N	K A77
141P	2015 07 17.07719	02 32 23.33	+34 41 02.8	17.5	N	K A77
141P	2015 07 18.04179	02 40 32.25	+35 04 00.1	18.0	N	K C10
141P	2015 07 18.04741	02 40 34.98	+35 04 09.0	18.1	N	K C10
141P	2015 07 18.05062	02 40 36.63	+35 04 18.2	18.1	N	K C10
141P	2015 07 18.08376	02 40 53.39	+35 05 02.0	17.8	N	K C10
141P	2015 07 18.09392	02 40 58.66	+35 05 14.7	18.1	N	K C10
141P	2015 07 18.09789	02 41 00.97	+35 05 22.7	16.9	N	K A77
141P	2015 07 18.10413	02 41 03.75	+35 05 29.3	17.9	N	K C10
141P	2015 07 18.11172	02 41 07.90	+35 05 40.0	17.0	N	K A77
141P	2015 07 18.71154	02 46 14.04	+35 18 53.3			349
141P	2015 07 18.71492	02 46 15.81	+35 18 58.4	16.4	T	349
141P	2015 07 23.38914	03 26 30.49	+36 32 56.7	18.5	N	KW96
141P	2015 07 23.40985	03 26 41.02	+36 33 06.4	19.1	N	KW96
141P	2015 07 25.77624	03 47 03.47	+36 50 18.6			K 367
141P	2015 07 25.77867	03 47 04.73	+36 50 18.8	16.7	T	K 367
141P	2015 07 27.78125	04 04 07.18	+36 54 47.9	18.5	N	372
141P	2015 07 27.78215	04 04 07.65	+36 54 47.8			372
141P	2015 07 28.16083	04 07 19.27	+36 54 38.1	18.7	N	9 G40
141P	2015 07 28.17470	04 07 26.29	+36 54 38.4	18.6	N	9 G40
141P	2015 07 28.20346	04 07 40.72	+36 54 37.3	18.5	N	9 G40
141P	2015 08 13.10189	06 06 36.92	+32 59 21.9	18.4	T	K 215
141P	2015 08 13.10380	06 06 37.68	+32 59 20.1	18.4	T	K 215
141P	2015 08 13.10571	06 06 38.39	+32 59 16.9	18.4	T	K 215
141P	2015 08 16.07132	06 25 05.07	+31 42 34.1	17.7	N	K I81
141P	2015 08 16.07203	06 25 05.34	+31 42 32.9	17.8	N	K I81
141P	2015 08 16.07487	06 25 06.34	+31 42 28.9	17.8	N	K I81
141P	2015 08 19.08069	06 42 40.50	+30 19 29.1	18.0	N	K A71
141P	2015 08 19.08572	06 42 42.23	+30 19 20.5	18.5	N	K A71
141P	2015 08 19.11215	06 42 51.15	+30 18 36.4	14.6	N	K A77
141P	2015 08 19.14575	06 43 02.57	+30 17 41.4	14.6	N	K A77
141P	2015 08 20.07841	06 48 16.24	+29 50 57.6	16.8	N	K C23
141P	2015 08 20.08130	06 48 17.08	+29 50 55.1	17.2	N	K C23
141P	2015 08 20.08419	06 48 18.27	+29 50 48.6	17.3	N	K C23
141P	2015 08 20.13237	06 48 34.29	+29 49 27.4	18.5	N	K A77
141P	2015 08 20.13804	06 48 36.20	+29 49 17.8	18.4	N	K A77
141P	2015 08 20.14371	06 48 38.01	+29 49 08.5	15.4	T	K A77
141P	2015 08 21.11345	06 53 57.48	+29 21 04.0	15.8	N	K C10
141P	2015 08 21.12913	06 54 02.61	+29 20 36.1	15.9	N	K C10
141P	2015 08 21.14894	06 54 09.09	+29 20 02.2	16.0	N	K C10
141P	2015 08 22.08552	06 59 11.79	+28 52 36.2	15.1	N	B96
141P	2015 08 22.08718	06 59 12.21	+28 52 32.4	15.2	N	B96
141P	2015 08 22.09050	06 59 13.31	+28 52 27.6	16.5	N	B96
141P	2015 08 22.14445	06 59 30.68	+28 50 54.4	16.2	N	K A77
141P	2015 08 22.14896	06 59 32.13	+28 50 46.3	12.6	T	K A77
141P	2015 08 23.08575	07 04 28.77	+28 23 04.1	15.4	N	B96
141P	2015 08 23.08741	07 04 29.27	+28 22 59.7	15.7	N	B96
141P	2015 08 23.09073	07 04 30.30	+28 22 51.8	15.7	N	B96
141P	2015 08 25.09996	07 14 49.17	+27 22 54.6	16.3	N	K B51
141P	2015 08 25.10689	07 14 51.17	+27 22 43.4	16.6	N	K B51
141P	2015 08 26.08328	07 19 43.50	+26 53 13.4	16.1	N	I81
141P	2015 08 26.08766	07 19 44.72	+26 53 06.0	16.0	N	I81
141P	2015 08 26.08981	07 19 45.40	+26 53 02.0	15.9	N	I81
141P	2015 08 26.10837	07 19 50.93	+26 52 30.4	16.6	N	K B51
141P	2015 08 26.11132	07 19 51.70	+26 52 25.3	16.9	N	K 215
141P	2015 08 26.11259	07 19 52.15	+26 52 22.8	16.8	N	K 215
141P	2015 08 26.11387	07 19 52.53	+26 52 20.3	16.8	N	K 215
141P	2015 08 26.11949	07 19 54.21	+26 52 10.7	16.5	N	K B51
141P	2015 08 26.12887	07 19 56.91	+26 51 54.8	15.4	N	K C95
141P	2015 08 26.13098	07 19 57.58	+26 51 50.5	16.4	N	K B51
141P	2015 08 26.13218	07 19 57.98	+26 51 48.7	15.9	N	K C95
141P	2015 08 26.13549	07 19 58.92	+26 51 42.5	15.5	N	K C95
141P	2015 08 26.14298	07 20 01.30	+26 51 27.9	15.4	N	K A77
141P	2015 08 26.14860	07 20 02.97	+26 51 17.8	15.5	N	K A77
141P	2015 08 26.15422	07 20 04.65	+26 51 07.2	15.4	N	K A77
141P	2015 08 26.17902	07 20 11.94	+26 50 24.1	16.9	N	K J43
141P	2015 08 26.19099	07 20 15.49	+26 50 03.0	16.9	N	K J43
141P	2015 08 26.20241	07 20 18.91	+26 49 42.1	16.9	N	K J43
141P	2015 08 26.38010	07 21 11.33	+26 44 26.9	15.6	N	KW96
141P	2015 08 26.39290	07 21 15.09	+26 44 06.2	15.7	N	KW96
141P	2015 08 26.79635	07 23 13.61	+26 31 43.1			K 367
141P	2015 08 26.79757	07 23 13.98	+26 31 41.1			K 367
141P	2015 08 26.79919	07 23 14.45	+26 31 38.0	13.7	T	K 367
141P	2015 08 27.12150	07 24 48.51	+26 21 49.0	17.4	N	K A77
141P	2015 08 27.12719	07 24 50.15	+26 21 38.5	17.3	N	K A77
141P	2015 08 27.13286	07 24 51.84	+26 21 28.9	17.5	N	K A77

151P/Helin

151P	2015 07 23.50915	23 41 46.842	−03 31 27.82	20.2	T	F51
151P	2015 07 23.52114	23 41 47.144	−03 31 27.68	20.1	T	F51
151P	2015 07 23.53341	23 41 47.447	−03 31 27.59	20.3	T	F51
151P	2015 07 23.54552	23 41 47.748	−03 31 27.43	20.2	T	F51
151P	2015 07 27.58138	23 43 24.174	−03 32 08.27	20.0	T	F52
151P	2015 07 27.59428	23 43 24.430	−03 32 08.66	20.1	T	F52
151P	2015 07 27.60649	23 43 24.661	−03 32 08.89	20.1	T	F52
151P	2015 07 27.61907	23 43 24.913	−03 32 09.42	20.0	T	F52
151P	2015 07 30.47892	23 44 21.382	−03 34 11.09	19.9	T	F51
151P	2015 07 30.49094	23 44 21.587	−03 34 12.01	19.9	T	F51
151P	2015 07 30.50279	23 44 21.755	−03 34 12.64	19.8	T	F51
151P	2015 07 30.51467	23 44 21.961	−03 34 13.16	20.2	T	F51
151P	2015 08 18.36277	23 46 13.26	−04 19 09.5	18.4	N	KW96
151P	2015 08 18.39255	23 46 13.04	−04 19 16.2	18.3	N	KW96
151P	2015 08 22.07440	23 45 43.93	−04 34 02.6	18.5	N	K A77
151P	2015 08 22.09053	23 45 43.74	−04 34 06.8	18.8	N	K A77
151P	2015 08 22.10408	23 45 43.57	−04 34 09.9	18.8	N	K A77

157P/Tritton

157P	2015 08 09.42588	22 16 15.531	−05 19 08.24	21.1	T	F51
157P	2015 08 09.45027	22 16 14.324	−05 19 11.44	21.4	T	F51
157P	2015 08 09.46234	22 16 13.709	−05 19 13.10	21.4	T	F51
157P	2015 08 20.03263	22 06 52.24	−05 47 44.9	20.1	N	K A77
157P	2015 08 20.04918	22 06 51.30	−05 47 47.3	20.2	N	K A77
157P	2015 08 20.06573	22 06 50.34	−05 47 50.4	20.2	N	K A77
157P	2015 08 20.30731	22 06 36.61	−05 48 30.0	20.0	N	KW96
157P	2015 08 20.33172	22 06 35.18	−05 48 34.9	20.5	N	KW96

157P	2015 08 20.93859	22 06 01.03	−05 50 37.2	19.9	N	K C10
157P	2015 08 20.96363	22 05 59.41	−05 50 40.5	20.1	N	K C10

162P/Siding Spring

162P	2015 07 26.07995	04 56 40.38	+25 45 13.7	15.9	N	K C23
162P	2015 07 26.08219	04 56 40.90	+25 45 16.0	16.1	N	K C23
162P	2015 07 30.39822	05 12 04.47	+27 24 56.1	16.7	N	KW96
162P	2015 07 30.40943	05 12 06.77	+27 25 11.9	17.0	N	KW96
162P	2015 07 30.42217	05 12 09.50	+27 25 29.0	16.6	N	KW96
162P	2015 08 17.07154	06 17 06.24	+33 05 06.1	16.3	N	I81
162P	2015 08 17.07804	06 17 07.76	+33 05 12.7	16.5	N	I81
162P	2015 08 17.08343	06 17 08.96	+33 05 18.1	16.4	N	I81
162P	2015 08 18.22853	06 21 25.71	+33 23 25.9	17.0	N	J22
162P	2015 08 18.23065	06 21 26.38	+33 23 24.6	17.0	N	J22
162P	2015 08 18.23277	06 21 27.02	+33 23 26.7	17.0	N	J22
162P	2015 08 22.07515	06 35 50.03	+34 20 28.1	16.3	N	B96
162P	2015 08 22.07847	06 35 50.71	+34 20 32.6	16.8	N	B96
162P	2015 08 22.08178	06 35 51.58	+34 20 34.0	16.5	N	B96
162P	2015 08 22.11857	06 35 59.72	+34 21 04.1	17.3	N	C23
162P	2015 08 22.12231	06 36 00.58	+34 21 05.5	16.8	N	C23
162P	2015 08 22.12606	06 36 01.42	+34 21 08.0	16.9	N	C23
162P	2015 08 24.03521	06 43 10.47	+34 47 21.2	16.7	N	C36
162P	2015 08 24.03644	06 43 10.81	+34 47 21.8	16.5	N	C36
162P	2015 08 24.03765	06 43 11.04	+34 47 23.2	16.6	N	C36
162P	2015 08 24.03888	06 43 11.32	+34 47 23.1	16.5	N	C36
162P	2015 08 24.04133	06 43 11.80	+34 47 25.6	16.8	N	C36
162P	2015 08 24.04255	06 43 12.08	+34 47 27.1	17.0	N	C36
162P	2015 08 26.06686	06 50 46.41	+35 13 44.7	16.8	N	I81
162P	2015 08 26.07116	06 50 47.38	+35 13 47.6	16.8	N	I81
162P	2015 08 26.07437	06 50 48.11	+35 13 50.3	16.7	N	I81
162P	2015 08 26.13347	06 51 01.30	+35 14 36.4	17.2	T	K 215
162P	2015 08 26.13449	06 51 01.52	+35 14 37.1	17.2	T	K 215
162P	2015 08 26.13551	06 51 01.75	+35 14 37.8	17.2	T	K 215
162P	2015 08 27.10124	06 54 38.39	+35 26 37.3	17.0	N	K A77
162P	2015 08 27.10692	06 54 39.63	+35 26 41.6	17.3	N	K A77
162P	2015 08 27.11259	06 54 40.88	+35 26 45.8	17.0	N	K A77

175P/Hergenrother

175P	2000 05 01.29928	11 51 28.85	+10 53 17.9	17.5	N	566
175P	2000 05 01.30999	11 51 28.95	+10 53 16.0	17.9	N	566
175P	2000 05 01.32179	11 51 29.09	+10 53 14.0	17.7	N	566

190P/Mueller

190P	2015 07 14.31466	20 33 58.25	−20 40 20.2	19.9	T	G45
190P	2015 07 14.31486	20 33 58.27	−20 40 21.8	20.2	T	G45
190P	2015 07 14.32005	20 33 58.03	−20 40 22.2	20.2	T	G45
190P	2015 07 14.32544	20 33 57.79	−20 40 22.1	19.5	T	G45
190P	2015 07 14.32564	20 33 57.80	−20 40 22.9	19.8	T	G45
190P	2015 07 14.33100	20 33 57.51	−20 40 23.5	19.4	T	G45
190P	2015 07 14.33120	20 33 57.54	−20 40 23.4	19.9	T	G45
190P	2015 07 14.43623	20 33 53.129	−20 40 36.76	20.0	T	F51
190P	2015 07 14.44721	20 33 52.653	−20 40 38.27	19.9	T	F51
190P	2015 07 14.45819	20 33 52.158	−20 40 39.80	20.0	T	F51
190P	2015 07 14.46918	20 33 51.676	−20 40 41.32	19.9	T	F51
190P	2015 07 18.30756	20 31 02.33	−20 49 29.7	19.5	T	G45
190P	2015 07 18.31861	20 31 01.82	−20 49 30.9	20.0	T	G45
190P	2015 07 18.32356	20 31 01.69	−20 49 32.7	20.1	T	G45
190P	2015 07 18.32952	20 31 01.30	−20 49 33.1	20.1	T	G45
190P	2015 07 21.30832	20 28 42.33	−20 56 28.8	19.5	T	G45
190P	2015 07 21.31391	20 28 42.09	−20 56 28.9	20.1	T	G45
190P	2015 07 21.31873	20 28 41.85	−20 56 30.0	19.5	T	G45
190P	2015 07 21.32351	20 28 41.63	−20 56 31.3	20.0	T	G45
190P	2015 07 21.32775	20 28 41.39	−20 56 31.6	20.0	T	G45
190P	2015 07 21.33153	20 28 41.23	−20 56 32.4	19.9	T	G45
190P	2015 08 11.32421	20 11 16.209	−21 40 27.40	19.5	T	F51
190P	2015 08 11.33520	20 11 15.667	−21 40 28.54	19.5	T	F51
190P	2015 08 11.34619	20 11 15.116	−21 40 29.61	19.5	T	F51
190P	2015 08 11.35718	20 11 14.567	−21 40 30.74	19.5	T	F51

196P/Tichý

196P	2015 07 21.46207	04 27 23.96	+28 27 36.3	20.5	T	291
196P	2015 07 21.46496	04 27 24.37	+28 27 38.8			291
196P	2015 07 21.46786	04 27 24.77	+28 27 40.7			291

205P/Giacobini

205P	2015 05 16.74550	00 15 47.90	+06 52 02.5	17.8	T	K D95
205P	2015 05 16.74805	00 15 48.40	+06 52 04.1			K D95
205P	2015 05 16.75097	00 15 48.85	+06 52 05.7			K D95
205P	2015 06 28.09114	02 13 37.64	+12 47 29.9	18.5	N	K 160
205P	2015 06 28.09319	02 13 37.99	+12 47 30.7	18.7	N	K 160
205P	2015 06 28.09525	02 13 38.32	+12 47 31.4	18.3	N	K 160
205P	2015 07 21.38456	03 10 56.25	+13 42 05.4	19.0	N	KW96
205P	2015 07 21.39507	03 10 57.47	+13 42 05.7	18.6	N	KW96
205P	2015 07 24.59487	03 18 10.791	+13 41 00.38	21.0	T	F51
205P	2015 07 24.59919	03 18 11.388	+13 41 00.33	20.8	T	F51
205P	2015 07 24.60395	03 18 11.988	+13 41 00.30	20.7	T	F51
205P	2015 07 24.60855	03 18 12.595	+13 40 59.87	20.7	T	F51
205P	2015 08 26.10313	04 19 28.39	+11 41 45.4	19.2	T	K 215
205P	2015 08 26.10699	04 19 28.61	+11 41 44.8	19.3	T	K 215

209P/LINEAR

209P	2014 02 18.793818	08 03 39.94	+70 59 02.6	17.2	T	2 089
209P	2014 02 18.795359	08 03 39.54	+70 59 04.3	17.8	T	2 089
209P	2014 02 18.797670	08 03 39.06	+70 59 06.1	16.7	T	2 089
209P	2014 02 18.799563	08 03 38.55	+70 59 07.8	16.0	T	2 089
209P	2014 02 18.801449	08 03 38.18	+70 59 09.8	16.9	T	2 089
209P	2014 02 18.803335	08 03 37.72	+70 59 11.4	15.9	T	2 089
209P	2014 02 18.806388	08 03 37.01	+70 59 13.7	16.5	T	2 089
209P	2014 02 18.808278	08 03 36.59	+70 59 15.5	16.5	T	2 089
209P	2014 02 18.847308	08 03 27.69	+70 59 49.5	16.4	T	2 089
209P	2014 02 18.849202	08 03 27.36	+70 59 50.9	16.1	T	2 089
209P	2014 02 18.851088	08 03 26.85	+70 59 51.9	17.6	T	2 089
209P	2014 02 18.857406	08 03 25.48	+70 59 58.0	18.7	T	2 089
209P	2014 03 24.788559	06 50 42.23	+73 03 47.8	17.6	T	2 089
209P	2014 03 24.790104	06 50 42.17	+73 03 47.6	16.4	T	2 089
209P	2014 03 24.791644	06 50 42.32	+73 03 47.2	16.6	T	2 089
209P	2014 03 24.793183	06 50 42.25	+73 03 46.8	17.0	T	2 089
209P	2014 03 24.800398	06 50 42.21	+73 03 45.4	16.9	T	2 089

209P	2014 03 24.801945	06 50 42.19	+73 03 45.3	16.5	T	2	089
209P	2014 03 24.803484	06 50 42.24	+73 03 45.1	17.1	T	2	089
209P	2014 03 24.805023	06 50 42.24	+73 03 44.9	17.4	T	2	089
209P	2014 03 24.829488	06 50 42.30	+73 03 40.0	16.8	T	2	089
209P	2014 03 24.831030	06 50 42.30	+73 03 39.8	16.1	T	2	089
209P	2014 03 24.832570	06 50 42.33	+73 03 39.6	16.8	T	2	089
209P	2014 03 24.834108	06 50 42.34	+73 03 39.5	17.4	T	2	089
209P	2014 03 24.898472	06 50 42.81	+73 03 26.5	16.7	T	2	089
209P	2014 03 24.900012	06 50 42.84	+73 03 26.4	17.3	T	2	089
209P	2014 03 24.901551	06 50 42.89	+73 03 25.7	16.6	T	2	089
209P	2014 03 24.903090	06 50 42.87	+73 03 25.8	16.7	T	2	089
209P	2014 03 25.023300	06 50 45.24	+73 03 01.3	17.6	T	2	089
209P	2014 03 25.024837	06 50 45.05	+73 03 00.4	16.6	T	2	089
209P	2014 03 25.026377	06 50 45.12	+73 03 00.5	18.1	T	2	089
209P	2014 03 25.027916	06 50 45.33	+73 03 00.2	17.3	T	2	089
209P	2014 03 29.843056	06 53 42.71	+72 50 23.9	16.4	T	2	089
209P	2014 03 29.844595	06 53 42.76	+72 50 23.2	16.0	T	2	089
209P	2014 03 29.846134	06 53 42.83	+72 50 22.9	16.1	T	2	089
209P	2014 03 29.847674	06 53 42.93	+72 50 22.7	16.0	T	2	089
209P	2014 03 29.883717	06 53 44.77	+72 50 13.7	16.6	T	2	089
209P	2014 03 29.885254	06 53 44.85	+72 50 13.3	15.8	T	2	089
209P	2014 03 29.886794	06 53 44.89	+72 50 12.9	15.9	T	2	089
209P	2014 03 29.888333	06 53 44.99	+72 50 12.5	16.0	T	2	089
209P	2014 03 29.889967	06 53 45.05	+72 50 12.2	16.1	T	2	089
209P	2014 03 29.891505	06 53 45.21	+72 50 11.6	15.8	T	2	089
209P	2014 03 29.893044	06 53 45.28	+72 50 11.6	15.7	T	2	089
209P	2014 03 29.894583	06 53 45.34	+72 50 10.9	16.8	T	2	089
209P	2014 03 29.910106	06 53 46.21	+72 50 07.2	15.6	T	2	089
209P	2014 03 29.911643	06 53 46.25	+72 50 06.9	16.4	T	2	089
209P	2014 03 29.913183	06 53 46.32	+72 50 06.5	16.6	T	2	089
209P	2014 03 29.914722	06 53 46.46	+72 50 06.0	16.1	T	2	089
209P	2014 03 29.974689	06 53 49.94	+72 49 50.6	16.7	T	2	089
209P	2014 03 29.976226	06 53 50.12	+72 49 50.5	16.9	T	2	089
209P	2014 03 29.977766	06 53 50.20	+72 49 50.1	17.0	T	2	089
209P	2014 03 29.979305	06 53 50.26	+72 49 49.8	17.0	T	2	089
209P	2014 03 29.996911	06 53 51.43	+72 49 45.2	16.7	T	2	089
209P	2014 04 23.875520	07 51 49.68	+70 20 55.5	16.8	T	2	089
209P	2014 04 23.877060	07 51 49.95	+70 20 54.2	16.2	T	2	089
209P	2014 04 23.884496	07 51 51.43	+70 20 48.5	16.6	T	2	089
209P	2014 04 23.886041	07 51 51.75	+70 20 47.3	15.9	T	2	089
209P	2014 04 23.887580	07 51 52.10	+70 20 45.9	15.9	T	2	089
209P	2014 04 23.889120	07 51 52.35	+70 20 44.7	16.4	T	2	089
209P	2014 04 23.902914	07 51 55.16	+70 20 33.5	15.5	T	2	089
209P	2014 04 23.904455	07 51 55.46	+70 20 32.4	15.5	T	2	089
209P	2014 04 23.905995	07 51 55.79	+70 20 31.0	16.1	T	2	089
209P	2014 04 23.907534	07 51 56.15	+70 20 29.9	15.7	T	2	089
209P	2014 04 26.802415	08 02 00.54	+69 43 22.0	16.0	T	2	089
209P	2014 04 26.803611	08 02 00.72	+69 43 20.9	17.2	T	2	089
209P	2014 04 26.804803	08 02 00.99	+69 43 19.6	16.6	T	2	089
209P	2014 04 26.805996	08 02 01.28	+69 43 18.6	16.0	T	2	089
209P	2014 04 26.807534	08 02 01.56	+69 43 17.3	16.1	T	2	089
209P	2014 04 26.945235	08 02 30.60	+69 41 03.3	15.3	T	2	089
209P	2014 04 26.947119	08 02 31.02	+69 41 01.5	15.5	T	2	089
209P	2014 04 26.956397	08 02 33.05	+69 40 52.3	16.1	T	2	089
209P	2014 04 26.958287	08 02 33.45	+69 40 50.7	15.8	T	2	089
209P	2014 04 26.985278	08 02 39.52	+69 40 24.7	17.1	T	2	089
209P	2014 04 26.986817	08 02 39.92	+69 40 22.7	16.2	T	2	089
209P	2014 04 26.988704	08 02 40.27	+69 40 20.9	16.0	T	2	089
209P	2014 04 26.990590	08 02 40.80	+69 40 19.1	16.1	T	2	089
209P	2014 04 26.992477	08 02 41.23	+69 40 17.4	16.1	T	2	089
209P	2014 04 27.001524	08 02 43.28	+69 40 08.8	16.2	T	2	089
209P	2014 04 27.002719	08 02 43.53	+69 40 07.3	16.4	T	2	089
209P	2014 04 27.003911	08 02 43.81	+69 40 06.4	16.4	T	2	089
209P	2014 04 27.005103	08 02 44.12	+69 40 04.9	16.2	T	2	089
209P	2014 04 27.006296	08 02 44.30	+69 40 04.1	16.3	T	2	089
209P	2014 04 27.007835	08 02 44.67	+69 40 02.5	15.8	T	2	089
209P	2014 04 27.009722	08 02 45.17	+69 40 00.9	15.7	T	2	089
209P	2014 04 27.011609	08 02 45.58	+69 39 59.0	15.9	T	2	089
209P	2014 04 27.013495	08 02 46.01	+69 39 57.3	15.8	T	2	089
209P	2014 04 27.022608	08 02 48.09	+69 39 48.4	15.8	T	2	089

216P/LINEAR

216P	2001 04 14.24161	10 22 44.98	+11 41 26.3	17.8	N	608
216P	2001 04 14.25213	10 22 45.11	+11 41 21.2	18.7	N	608
216P	2001 04 14.26275	10 22 45.25	+11 41 16.8	19.0	N	608
216P	2001 05 08.36265	10 35 20.46	+08 21 28.5	19.2	N	608
216P	2001 05 08.38382	10 35 21.47	+08 21 17.8			608

218P/LINEAR

218P	2015 04 15.75491	19 05 44.21	−17 08 24.3	15.2	T	349
218P	2015 04 15.75964	19 05 45.47	−17 08 21.3			349
218P	2015 06 10.99731	21 39 18.79	−06 53 47.3	15.5	N	585
218P	2015 06 10.99840	21 39 18.74	−06 53 46.8	16.7	N	585
218P	2015 06 10.99911	21 39 18.80	−06 53 46.2	15.8	N	585
218P	2015 06 10.99984	21 39 18.91	−06 53 46.6	15.9	N	585
218P	2015 06 11.00056	21 39 18.90	−06 53 46.8	15.8	N	585
218P	2015 06 11.00164	21 39 18.90	−06 53 45.8	15.7	N	585
218P	2015 06 11.00200	21 39 18.99	−06 53 45.8	15.7	N	585
218P	2015 06 11.00273	21 39 19.05	−06 53 46.0	15.7	N	585
218P	2015 06 11.00345	21 39 18.99	−06 53 44.9	15.7	N	585
218P	2015 06 17.94483	21 43 51.70	−06 35 47.0	16.2	N	585
218P	2015 06 17.94554	21 43 51.68	−06 35 46.4	16.1	N	585
218P	2015 06 17.94626	21 43 51.67	−06 35 47.0	16.2	N	585
218P	2015 06 17.94699	21 43 51.80	−06 35 47.0	16.2	N	585
218P	2015 06 24.98709	21 45 29.55	−06 36 08.2	17.0	N	A71
218P	2015 06 24.99171	21 45 29.56	−06 36 08.4	16.9	N	A71
218P	2015 06 24.99633	21 45 29.55	−06 36 08.9	17.0	N	A71
218P	2015 06 25.99259	21 45 29.89	−06 37 38.7	16.4	N	I57
218P	2015 06 26.00675	21 45 29.82	−06 37 40.0	16.3	N	I57
218P	2015 06 26.03514	21 45 29.65	−06 37 44.1	16.2	N	I57
218P	2015 06 30.04194	21 44 56.34	−06 47 41.4	16.5	N	C23
218P	2015 06 30.04568	21 44 56.23	−06 47 42.9	17.0	N	C23
218P	2015 06 30.05018	21 44 56.37	−06 47 43.8	16.5	N	C23
218P	2015 07 07.02637	21 42 03.08	−07 18 07.5	17.1	N	C23
218P	2015 07 07.03236	21 42 03.02	−07 18 10.4	16.5	N	C23
218P	2015 07 10.60633	21 39 43.90	−07 39 32.6	15.9	T	D95
218P	2015 07 10.61172	21 39 43.69	−07 39 34.6			D95

218P	2015 07 10.61495	21 39 43.53	−07 39 35.4			D95
218P	2015 07 10.99580	21 39 26.66	−07 42 08.0	16.8	T	K 215
218P	2015 07 10.99707	21 39 26.59	−07 42 08.6	17.3	T	K 215
218P	2015 07 10.99834	21 39 26.52	−07 42 08.8	17.3	T	K 215
218P	2015 07 11.00914	21 39 26.12	−07 42 11.0	16.1	N	C35
218P	2015 07 11.01623	21 39 25.80	−07 42 14.3	16.1	N	C35
218P	2015 07 11.01978	21 39 25.63	−07 42 16.6	16.1	N	C35
218P	2015 07 11.10759	21 39 21.43	−07 42 51.1	17.5	N	J01
218P	2015 07 11.11503	21 39 21.09	−07 42 54.0	17.5	N	J01
218P	2015 07 11.12245	21 39 20.69	−07 42 57.1	17.4	N	J01
218P	2015 07 11.62641	21 38 58.46	−07 46 19.5	15.9	T	349
218P	2015 07 11.63132	21 38 58.23	−07 46 21.3			349
218P	2015 07 12.01748	21 38 40.37	−07 49 01.9	16.2	N	C23
218P	2015 07 12.02326	21 38 40.10	−07 49 03.7	16.5	N	C23
218P	2015 07 12.02903	21 38 39.75	−07 49 06.6	16.8	N	C23
218P	2015 07 12.03768	21 38 39.22	−07 49 10.3	15.4	T	K 104
218P	2015 07 12.04506	21 38 38.90	−07 49 11.5	17.4	T	K 104
218P	2015 07 12.35905	21 38 24.00	−07 51 23.1	15.2	T	703
218P	2015 07 12.36579	21 38 23.70	−07 51 25.5	15.5	T	703
218P	2015 07 12.37286	21 38 23.46	−07 51 27.4	15.7	T	703
218P	2015 07 12.38699	21 38 22.70	−07 51 33.0	15.4	T	703
218P	2015 07 14.38249	21 36 44.46	−08 05 53.4	16.8	N	K H47
218P	2015 07 14.38945	21 36 44.10	−08 05 56.6	16.8	N	K H47
218P	2015 07 14.39542	21 36 43.74	−08 05 59.5	16.7	N	K H47
218P	2015 07 15.02719	21 36 11.72	−08 10 46.0	17.4	N	K 958
218P	2015 07 15.03601	21 36 11.18	−08 10 50.1	17.4	N	K 958
218P	2015 07 15.04483	21 36 10.65	−08 10 54.5	17.7	N	K 958
218P	2015 07 15.35488	21 35 54.07	−08 13 13.4	16.9	N	K H47
218P	2015 07 15.36061	21 35 53.75	−08 13 16.2	16.8	N	K H47
218P	2015 07 15.37208	21 35 53.09	−08 13 21.7	16.9	N	K H47
218P	2015 07 15.99966	21 35 20.08	−08 18 14.5	16.5	N	C10
218P	2015 07 16.01404	21 35 19.22	−08 18 21.7	16.5	N	C10
218P	2015 07 16.03271	21 35 18.14	−08 18 30.1	16.5	N	C10
218P	2015 07 17.01477	21 34 24.52	−08 26 13.1	16.7	N	939
218P	2015 07 17.02067	21 34 24.18	−08 26 14.8	16.7	N	939
218P	2015 07 17.07151	21 34 21.08	−08 26 40.9	17.0	N	K K25
218P	2015 07 17.07912	21 34 20.60	−08 26 44.1	17.1	N	K K25
218P	2015 07 17.97354	21 33 30.70	−08 33 56.9	17.2	N	K A77
218P	2015 07 17.98017	21 33 30.29	−08 34 00.2	17.6	N	K A77
218P	2015 07 18.02133	21 33 27.64	−08 34 20.9	15.8	T	104
218P	2015 07 18.03403	21 33 26.85	−08 34 27.6	15.8	T	104
218P	2015 07 18.05683	21 33 25.49	−08 34 38.0	15.7	T	104
218P	2015 07 18.39047	21 33 06.17	−08 37 19.3	16.7	N	H47
218P	2015 07 18.39317	21 33 06.00	−08 37 20.7	16.9	N	H47
218P	2015 07 18.39579	21 33 05.81	−08 37 22.0	17.0	N	H47
218P	2015 07 18.39855	21 33 05.68	−08 37 23.4	16.8	N	H47
218P	2015 07 19.35622	21 32 10.51	−08 45 22.7	15.5	T	G45
218P	2015 07 19.35628	21 32 10.48	−08 45 22.9	15.4	T	G45
218P	2015 07 19.36174	21 32 09.96	−08 45 25.2	15.5	T	G45
218P	2015 07 19.36707	21 32 09.58	−08 45 28.1	15.5	T	G45
218P	2015 07 19.37215	21 32 09.25	−08 45 30.5	15.6	T	G45
218P	2015 07 19.51914	21 32 01.47	−08 46 25.7	16.5	N	30D90
218P	2015 07 19.52530	21 32 01.12	−08 46 28.3	16.5	N	30D90
218P	2015 07 19.53144	21 32 00.76	−08 46 31.1	16.5	N	30D90
218P	2015 07 20.01499	21 31 31.73	−08 50 55.0	17.4	N	J01
218P	2015 07 20.01894	21 31 31.48	−08 50 55.7	17.0	N	J01
218P	2015 07 20.02288	21 31 31.30	−08 50 58.1	17.5	N	J01
218P	2015 07 20.07312	21 31 27.96	−08 51 24.4	17.0	N	K K25
218P	2015 07 20.08085	21 31 27.44	−08 51 28.1	17.2	N	K K25
218P	2015 07 20.99392	21 30 33.10	−08 59 15.8	17.3	N	K A77
218P	2015 07 21.00223	21 30 32.49	−08 59 20.8	17.4	N	K A77
218P	2015 07 21.00894	21 30 32.10	−08 59 23.5	17.3	N	K A77
218P	2015 07 21.01686	21 30 31.59	−08 59 26.9	17.3	N	K A77
218P	2015 07 21.94854	21 29 35.03	−09 07 31.9	16.8	N	C10
218P	2015 07 21.97743	21 29 33.10	−09 07 45.6	17.0	N	C10
218P	2015 07 23.05010	21 28 26.73	−09 17 11.0	17.0	N	J01
218P	2015 07 23.06087	21 28 25.97	−09 17 16.4	17.9	N	J01
218P	2015 07 23.09316	21 28 23.83	−09 17 33.7	18.0	N	J01
218P	2015 07 25.97759	21 25 22.50	−09 43 24.0	17.0	N	K C23
218P	2015 07 25.97909	21 25 22.34	−09 43 23.6	17.3	N	K C23
218P	2015 07 25.98359	21 25 22.06	−09 43 27.0	16.6	N	K C23
218P	2015 07 27.36995	21 23 53.00	−09 55 59.3	17.2	N	K H47
218P	2015 07 27.37744	21 23 52.54	−09 56 03.7	17.1	N	K H47
218P	2015 07 27.38370	21 23 51.99	−09 56 07.2	17.2	N	K H47
218P	2015 08 05.27414	21 14 31.95	−11 16 43.6	18.2	T	Y00
218P	2015 08 05.28385	21 14 31.30	−11 16 46.8	18.3	T	Y00
218P	2015 08 05.29349	21 14 30.53	−11 16 49.5	18.5	T	Y00
218P	2015 08 05.96536	21 13 50.88	−11 23 03.1	16.7	N	K C23
218P	2015 08 05.97685	21 13 50.29	−11 23 08.9	17.4	N	C23
218P	2015 08 06.54243	21 13 16.60	−11 27 52.6	17.2	N	Q68
218P	2015 08 06.61769	21 13 11.81	−11 28 31.9	17.1	N	Q68
218P	2015 08 07.46211	21 12 22.64	−11 35 54.6	17.1	N	Q68
218P	2015 08 07.51374	21 12 19.41	−11 36 22.5	17.2	N	Q68
218P	2015 08 08.50374	21 11 22.22	−11 44 55.6	17.0	N	30D90
218P	2015 08 08.50495	21 11 22.01	−11 44 57.0	17.2	N	Q68
218P	2015 08 08.50795	21 11 21.82	−11 44 58.5	17.2	N	Q68
218P	2015 08 08.50988	21 11 21.79	−11 44 59.3	17.0	N	30D90
218P	2015 08 08.51602	21 11 21.53	−11 45 02.1	17.0	N	30D90
218P	2015 08 10.36359	21 09 36.60	−12 00 56.9	17.1	N	K H47
218P	2015 08 10.38200	21 09 35.47	−12 01 07.0	17.4	N	K H47
218P	2015 08 10.48835	21 09 30.58	−12 01 47.1	17.3	N	Q68
218P	2015 08 10.52778	21 09 28.24	−12 02 07.2	17.2	N	Q68
218P	2015 08 10.96376	21 09 04.32	−12 06 00.6	18.4	N	K J36
218P	2015 08 10.96784	21 09 04.09	−12 06 01.8	18.4	N	K J36
218P	2015 08 10.97192	21 09 03.88	−12 06 03.8	18.2	N	K J36
218P	2015 08 15.03877	21 05 34.93	−12 38 38.6	17.1	N	J22
218P	2015 08 15.04271	21 05 34.75	−12 38 39.7	17.1	N	J22
218P	2015 08 15.04657	21 05 34.64	−12 38 42.9	17.1	N	J22
218P	2015 08 16.52002	21 04 25.70	−12 49 42.5	17.8	N	Q68
218P	2015 08 16.63092	21 04 20.18	−12 50 32.1	18.0	N	Q68
218P	2015 08 17.45174	21 03 44.22	−12 56 36.4	17.5	T	Q60
218P	2015 08 17.46134	21 03 43.66	−12 56 40.9	18.2	T	Q60
218P	2015 08 17.47095	21 03 43.09	−12 56 45.9	18.0	T	Q60
218P	2015 08 17.88207	21 03 25.28	−12 59 56.8	18.0	N	K A77
218P	2015 08 17.89436	21 03 24.60	−13 00 03.3	18.3	N	K A77
218P	2015 08 17.90654	21 03 24.06	−13 00 09.1	18.3	N	K A77

218P	2015 08 18.29381	21 03 07.17	−13 02 55.2	16.5	T	703
218P	2015 08 18.30572	21 03 06.63	−13 03 01.0	16.5	T	703
218P	2015 08 18.31311	21 03 06.25	−13 03 03.8	16.3	T	703
218P	2015 08 18.32051	21 03 05.94	−13 03 06.4	16.6	T	703
218P	2015 08 19.62415	21 02 12.08	−13 12 06.9	18.0	N	Q68
218P	2015 08 19.65319	21 02 10.87	−13 12 17.2	17.8	N	Q68
218P	2015 08 21.94226	21 00 44.94	−13 27 53.3	17.9	N	J22
218P	2015 08 21.94674	21 00 44.75	−13 27 55.3	17.9	N	J22
218P	2015 08 21.95116	21 00 44.62	−13 27 57.2	17.9	N	J22

220P/McNaught

220P	2015 07 18.44436	02 02 03.59	+08 34 15.3	18.0	T	G45
220P	2015 07 18.45187	02 02 04.66	+08 34 19.5	19.0	T	G45
220P	2015 07 18.45194	02 02 04.68	+08 34 20.0	18.1	T	G45
220P	2015 07 18.45959	02 02 05.62	+08 34 21.8	17.7	T	G45
220P	2015 07 18.46716	02 02 06.63	+08 34 24.7	18.4	T	G45
220P	2015 07 20.43244	02 06 35.45	+08 44 34.5	18.2	T	G45
220P	2015 07 20.44652	02 06 37.33	+08 44 38.1	18.3	T	G45
220P	2015 07 20.45360	02 06 38.24	+08 44 39.5	17.8	T	G45
220P	2015 07 20.46067	02 06 39.24	+08 44 42.5	18.7	T	G45
220P	2015 07 20.46744	02 06 40.18	+08 44 43.9	18.2	T	G45
220P	2015 07 21.06478	02 08 01.07	+08 47 38.6	18.3	N	K 160
220P	2015 07 21.06711	02 08 01.38	+08 47 40.0	18.3	N	K 160
220P	2015 07 21.06918	02 08 01.64	+08 47 40.7	18.5	N	K 160
220P	2015 07 21.43306	02 08 50.60	+08 49 26.7	18.1	T	G45
220P	2015 07 21.44007	02 08 51.52	+08 49 28.8	18.1	T	G45
220P	2015 07 21.44711	02 08 52.50	+08 49 30.6	18.4	T	G45
220P	2015 07 21.45419	02 08 53.33	+08 49 32.2	17.7	T	G45
220P	2015 07 21.46116	02 08 54.31	+08 49 36.1	17.7	T	G45
220P	2015 07 30.16755	02 27 42.13	+09 23 15.7	19	T	C51
Geocentric position (km)	+ 4478.5131	+ 4978.0230	+ 1527.6743			
220P	2015 07 30.42986	02 28 14.60	+09 23 59.5			C51
Geocentric position (km)	+ 4438.1400	+ 4992.8553	+ 1595.1876			
220P	2015 07 30.56115	02 28 30.93	+09 24 24.3			C51
Geocentric position (km)	+ 4439.3355	+ 5007.1916	+ 1546.4309			
220P	2015 07 30.69231	02 28 47.20	+09 24 46.2			C51
Geocentric position (km)	+ 4419.1176	+ 5014.4895	+ 1580.1239			
220P	2015 07 30.82347	02 29 03.33	+09 25 09.1			C51
Geocentric position (km)	+ 4398.7985	+ 5021.5981	+ 1613.6876			
220P	2015 07 30.95475	02 29 19.53	+09 25 30.2			C51
Geocentric position (km)	+ 4399.6142	+ 5035.9082	+ 1566.4104			
220P	2015 07 31.02033	02 29 27.63	+09 25 41.3			C51
Geocentric position (km)	+ 4389.4846	+ 5039.4731	+ 1583.1612			
220P	2015 07 31.08591	02 29 35.74	+09 25 51.9			C51
Geocentric position (km)	+ 4379.3226	+ 5042.9897	+ 1599.9231			
220P	2015 07 31.15149	02 29 43.78	+09 26 03.1			C51
Geocentric position (km)	+ 4369.2256	+ 5046.4912	+ 1616.3063			
220P	2015 07 31.21707	02 29 51.84	+09 26 13.6			C51
Geocentric position (km)	+ 4358.9995	+ 5049.9074	+ 1633.0557			
220P	2015 07 31.21719	02 29 51.83	+09 26 15.1			C51
Geocentric position (km)	+ 4380.1063	+ 5057.2710	+ 1552.2244			
220P	2015 07 31.28277	02 29 59.87	+09 26 25.4			C51
Geocentric position (km)	+ 4369.9793	+ 5060.8225	+ 1569.0112			
220P	2015 07 31.34835	02 30 07.95	+09 26 35.3			C51
Geocentric position (km)	+ 4359.8290	+ 5064.3236	+ 1585.7467			
220P	2015 07 31.41393	02 30 16.02	+09 26 46.2			C51
Geocentric position (km)	+ 4349.6627	+ 5067.7849	+ 1602.4375			
220P	2015 07 31.54509	02 30 32.12	+09 27 09.2			C51
Geocentric position (km)	+ 4329.2284	+ 5074.5512	+ 1635.8130			
220P	2015 07 31.54522	02 30 32.09	+09 27 07.1			C51
Geocentric position (km)	+ 4350.3068	+ 5082.0595	+ 1555.0200			
220P	2015 07 31.67637	02 30 48.07	+09 27 28.4			C51
Geocentric position (km)	+ 4330.0182	+ 5088.9961	+ 1588.3951			
220P	2015 07 31.80753	02 31 04.22	+09 27 48.6			C51
Geocentric position (km)	+ 4309.6051	+ 5095.7344	+ 1621.7516			
220P	2015 07 31.93882	02 31 20.26	+09 28 10.2			C51
Geocentric position (km)	+ 4310.2859	+ 5110.1233	+ 1574.2072			
220P	2015 08 07.71923	02 44 35.84	+09 40 57.8	18.2	N	K Q68
220P	2015 08 07.75960	02 44 40.31	+09 41 00.7	18.3	N	K Q68
220P	2015 08 13.04822	02 54 12.42	+09 44 02.1	19.0	T	K 215
220P	2015 08 13.04949	02 54 12.46	+09 44 01.7	18.0	T	K 215
220P	2015 08 13.05076	02 54 12.56	+09 44 02.0	19.1	T	K 215
220P	2015 08 13.43663	02 54 52.48	+09 44 03.9	18.4	T	G45
220P	2015 08 13.44286	02 54 53.07	+09 44 03.4	18.2	T	G45
220P	2015 08 13.44931	02 54 53.63	+09 44 04.1	17.9	T	G45
220P	2015 08 13.45535	02 54 54.35	+09 44 03.4	18.2	T	G45
220P	2015 08 13.46153	02 54 54.98	+09 44 04.1	18.3	T	G45
220P	2015 08 13.46782	02 54 55.62	+09 44 04.2	18.2	T	G45
220P	2015 08 13.47372	02 54 56.24	+09 44 03.4	18.4	T	G45
220P	2015 08 14.43887	02 56 34.96	+09 43 54.7	17.8	T	G45
220P	2015 08 14.44429	02 56 35.53	+09 43 55.1	18.0	T	G45
220P	2015 08 14.45066	02 56 36.20	+09 43 55.9	18.2	T	G45
220P	2015 08 14.45642	02 56 36.69	+09 43 55.8	18.2	T	G45
220P	2015 08 14.46221	02 56 37.36	+09 43 55.2	18.2	T	G45
220P	2015 08 14.47384	02 56 38.47	+09 43 55.7	18.2	T	G45
220P	2015 08 15.44033	02 58 15.70	+09 43 34.5	18.0	T	G45
220P	2015 08 15.44646	02 58 16.30	+09 43 34.0	17.9	T	G45
220P	2015 08 15.45232	02 58 17.01	+09 43 35.6	18.7	T	G45
220P	2015 08 15.46388	02 58 18.04	+09 43 35.1	18.6	T	G45
220P	2015 08 15.46981	02 58 18.59	+09 43 34.5	18.6	T	G45
220P	2015 08 17.05593	03 00 54.63	+09 42 33.3	19.2	T	K 104
220P	2015 08 17.06271	03 00 55.29	+09 42 34.3	19.4	T	K 104
220P	2015 08 17.06949	03 00 55.87	+09 42 32.5	19.2	T	K 104
220P	2015 08 17.12734	03 01 01.71	+09 42 32.4	18.4	N	J22
220P	2015 08 17.12852	03 01 01.81	+09 42 32.9	18.4	N	J22
220P	2015 08 17.13195	03 01 02.07	+09 42 32.9	18.4	N	J22

221P/LINEAR

221P	2015 05 22.95807	16 29 38.70	−15 12 13.8	16.2	N	583
221P	2015 05 22.95847	16 29 38.74	−15 12 13.9	17.3	N	583
221P	2015 05 22.95917	16 29 38.69	−15 12 12.7	16.3	N	583
221P	2015 05 22.95986	16 29 38.70	−15 12 12.7	17.6	N	583
221P	2015 05 22.96056	16 29 38.67	−15 12 11.9	16.3	N	583
221P	2015 05 22.96126	16 29 38.65	−15 12 11.2	16.3	N	583
221P	2015 05 22.96196	16 29 38.64	−15 12 10.4	16.3	N	583
221P	2015 05 22.96265	16 29 38.64	−15 12 09.5	16.3	N	583

221P	2015 05 23.01936	16 29 37.34	−15 11 19.9	16.6	N	583	
221P	2015 05 23.01971	16 29 37.32	−15 11 20.2	17.6	N	583	
221P	2015 05 23.02006	16 29 37.30	−15 11 19.4	17.2	N	583	
221P	2015 05 23.02041	16 29 37.30	−15 11 19.5	17.4	N	583	
221P	2015 05 23.02075	16 29 37.29	−15 11 19.1	17.5	N	583	
221P	2015 05 23.02110	16 29 37.30	−15 11 18.5	17.2	N	583	
221P	2015 05 23.02145	16 29 37.28	−15 11 18.2	16.7	N	583	
221P	2015 05 23.02179	16 29 37.26	−15 11 18.2	17.7	N	583	
221P	2015 05 23.02214	16 29 37.27	−15 11 17.7	17.0	N	583	
221P	2015 05 23.02249	16 29 37.27	−15 11 17.4	17.5	N	583	
221P	2015 06 08.94991	16 23 27.65	−11 13 08.9	16.3	N	585	
221P	2015 06 08.95061	16 23 27.63	−11 13 08.3	16.2	N	585	
221P	2015 06 08.95132	16 23 27.60	−11 13 07.5	16.3	N	585	
221P	2015 06 08.95203	16 23 27.64	−11 13 07.1	16.2	N	585	
221P	2015 06 08.95273	16 23 27.60	−11 13 06.3	16.3	N	585	
221P	2015 06 08.95344	16 23 27.55	−11 13 06.2	16.2	N	585	
221P	2015 06 08.95416	16 23 27.51	−11 13 05.7	16.1	N	585	
221P	2015 06 08.95486	16 23 27.52	−11 13 04.9	16.1	N	585	
221P	2015 06 08.95557	16 23 27.50	−11 13 04.2	16.3	N	585	
221P	2015 06 08.95627	16 23 27.51	−11 13 03.9	16.3	N	585	
221P	2015 06 08.95698	16 23 27.51	−11 13 03.4	16.3	N	585	
221P	2015 06 08.95770	16 23 27.48	−11 13 02.0	16.3	N	585	
221P	2015 06 08.95840	16 23 27.47	−11 13 02.1	16.4	N	585	
221P	2015 06 08.95911	16 23 27.41	−11 13 01.8	16.3	N	585	
221P	2015 06 08.95981	16 23 27.44	−11 13 01.0	16.3	N	585	
221P	2015 06 08.96052	16 23 27.41	−11 13 00.6	16.3	N	585	
221P	2015 06 08.96123	16 23 27.39	−11 12 59.9	16.2	N	585	
221P	2015 06 10.53928	16 22 57.95	−10 52 57.3	15.6	T	D95	
221P	2015 06 10.55006	16 22 57.74	−10 52 49.7			D95	
221P	2015 06 10.55329	16 22 57.65	−10 52 46.8			D95	
221P	2015 06 30.90018	16 21 18.15	−07 39 05.6	15.7	N	K C23	
221P	2015 06 30.90918	16 21 18.20	−07 39 02.3	16.5	N	K C23	
221P	2015 07 06.29300	16 22 49.195	−07 10 18.23	17.3	T	F51	
221P	2015 07 06.30343	16 22 49.406	−07 10 15.16	17.4	T	F51	
221P	2015 07 06.31384	16 22 49.574	−07 10 12.65	17.6	T	F51	
221P	2015 07 06.32427	16 22 49.775	−07 10 09.75	17.8	T	F51	
221P	2015 07 06.88946	16 23 02.55	−07 07 45.3	16.6	N	J01	
221P	2015 07 06.89662	16 23 02.70	−07 07 43.6	16.7	N	J01	
221P	2015 07 06.90380	16 23 02.85	−07 07 42.0	16.9	N	J01	
221P	2015 07 06.91047	16 23 02.92	−07 07 40.6	16.5	N	B96	
221P	2015 07 06.91545	16 23 03.03	−07 07 39.2	16.4	N	B96	
221P	2015 07 06.92043	16 23 03.14	−07 07 37.9	16.6	N	B96	
221P	2015 07 06.96025	16 23 03.93	−07 07 28.2	16.0	N	C23	
221P	2015 07 06.96474	16 23 04.04	−07 07 27.5	16.3	N	C23	
221P	2015 07 06.96849	16 23 04.24	−07 07 25.9	15.9	N	C23	
221P	2015 07 07.27294	16 23 11.664	−07 06 05.86	17.6	T	F51	
221P	2015 07 07.28361	16 23 11.883	−07 06 03.15	17.7	T	F51	
221P	2015 07 07.29419	16 23 12.087	−07 06 00.62	17.6	T	F51	
221P	2015 07 07.30499	16 23 12.310	−07 05 57.82	17.8	T	F51	
221P	2015 07 08.95693	16 23 54.06	−06 59 37.6	16.2	N	I72	
221P	2015 07 08.95986	16 23 54.12	−06 59 37.0	16.1	N	I72	
221P	2015 07 08.96279	16 23 54.19	−06 59 36.3	16.2	N	I72	
221P	2015 07 09.89987	16 24 20.46	−06 56 22.4	17.1	N	B96	
221P	2015 07 09.90485	16 24 20.60	−06 56 21.7	16.8	N	B96	
221P	2015 07 09.90983	16 24 20.76	−06 56 20.3	17.1	N	B96	
221P	2015 07 09.91272	16 24 20.81	−06 56 19.3	16.3	N	A02	
221P	2015 07 09.91671	16 24 20.91	−06 56 18.6	16.3	N	A02	
221P	2015 07 10.97991	16 24 52.40	−06 52 58.2	16.6	T	K 215	
221P	2015 07 10.98119	16 24 52.45	−06 52 58.1	16.5	T	K 215	
221P	2015 07 10.98248	16 24 52.48	−06 52 58.1	16.9	T	K 215	
221P	2015 07 10.99167	16 24 52.78	−06 52 55.0	16.4	N	939	
221P	2015 07 11.00035	16 24 53.04	−06 52 53.5	16.4	N	939	
221P	2015 07 11.00904	16 24 53.28	−06 52 51.8	16.4	N	939	
221P	2015 07 11.52344	16 25 09.64	−06 51 22.5	16.0	T	D95	
221P	2015 07 11.52629	16 25 09.72	−06 51 21.7			D95	
221P	2015 07 11.54196	16 25 10.18	−06 51 19.1			D95	
221P	2015 07 12.89989	16 25 55.47	−06 47 46.4	17.0	N	958	
221P	2015 07 12.91239	16 25 55.80	−06 47 44.5	17.2	N	958	
221P	2015 07 12.92488	16 25 56.24	−06 47 42.6	17.6	N	958	
221P	2015 07 16.93911	16 28 30.23	−06 40 17.5	16.5	N	B82	
221P	2015 07 16.94270	16 28 30.39	−06 40 17.3	16.6	N	B82	
221P	2015 07 16.94628	16 28 30.59	−06 40 16.7	16.5	N	B82	
221P	2015 07 16.97830	16 28 31.83	−06 40 14.0	16.5	N	939	
221P	2015 07 16.98559	16 28 32.12	−06 40 13.5	16.5	N	939	
221P	2015 07 16.99653	16 28 32.55	−06 40 12.6	16.5	N	939	
221P	2015 07 17.91148	16 29 12.25	−06 39 10.2	16.6	N	B82	
221P	2015 07 17.91368	16 29 12.28	−06 39 09.7	16.6	N	B82	
221P	2015 07 17.91810	16 29 12.48	−06 39 08.5	16.5	N	B82	
221P	2015 07 17.93354	16 29 13.09	−06 39 07.7	16.9	N	K A77	
221P	2015 07 17.94601	16 29 13.64	−06 39 07.0	16.9	N	K A77	
221P	2015 07 17.95771	16 29 14.08	−06 39 06.0	17.0	N	K A77	
221P	2015 07 19.00223	16 30 01.23	−06 38 09.9	16.4	N	I72	
221P	2015 07 19.00369	16 30 01.26	−06 38 09.2	16.5	N	I72	
221P	2015 07 19.00516	16 30 01.35	−06 38 09.3	16.4	N	I72	
221P	2015 07 19.89453	16 30 43.35	−06 37 35.0	16.4	N	J01	
221P	2015 07 19.90171	16 30 43.70	−06 37 35.0	17.2	N	J01	
221P	2015 07 19.90889	16 30 43.94	−06 37 34.4	17.0	N	J01	
221P	2015 07 19.96073	16 30 46.34	−06 37 33.2	16.5	N	C23	
221P	2015 07 19.96298	16 30 46.45	−06 37 32.9	16.6	N	C23	
221P	2015 07 19.96673	16 30 46.60	−06 37 32.7	16.1	N	C23	
221P	2015 07 20.88572	16 31 31.49	−06 37 09.7	17.0	N	K A77	
221P	2015 07 20.90157	16 31 32.24	−06 37 09.8	16.9	N	K A77	
221P	2015 07 20.91331	16 31 32.81	−06 37 09.2	17.0	N	K A77	
221P	2015 07 20.98759	16 31 36.39	−06 37 07.5	16.7	N	B54	
221P	2015 07 20.98811	16 31 36.38	−06 37 07.5	16.7	N	B54	
221P	2015 07 20.98839	16 31 36.38	−06 37 07.6	16.7	N	B54	
221P	2015 07 23.86106	16 34 07.11	−06 37 18.3			104	
221P	2015 07 23.86905	16 34 07.63	−06 37 18.5	15.8	T	104	
221P	2015 07 23.87642	16 34 08.01	−06 37 19.5	15.5	T	104	
221P	2015 07 31.27568	16 41 41.471	−06 45 32.02	17.6	T	F51	
221P	2015 07 31.28682	16 41 42.183	−06 45 33.21	17.6	T	F51	
221P	2015 07 31.29776	16 41 42.891	−06 45 34.44	17.7	T	F51	
221P	2015 07 31.30907	16 41 43.608	−06 45 35.58	17.8	T	F51	
221P	2015 08 01.26698	16 42 49.078	−06 47 23.29	17.7	T	F51	
221P	2015 08 01.27830	16 42 49.820	−06 47 24.64	17.8	T	F51	
221P	2015 08 01.29637	16 42 51.010	−06 47 26.76	17.7	T	F51	

221P	2015 08 01.30767	16 42 51.751	−06 47 28.04	17.7	T		F51
221P	2015 08 01.87146	16 43 31.00	−06 48 39.6	17.7	N		B96
221P	2015 08 01.87644	16 43 31.29	−06 48 39.0	16.7	N		B96
221P	2015 08 01.88141	16 43 31.66	−06 48 39.4	16.7	N		B96
221P	2015 08 01.91418	16 43 33.84	−06 48 45.2	16.7	N	K	C23
221P	2015 08 01.91851	16 43 34.19	−06 48 45.7	16.5	N	K	C23
221P	2015 08 01.92140	16 43 34.45	−06 48 45.2	16.9	N	K	C23
221P	2015 08 06.47782	16 49 08.93	−06 59 25.7	17.1	N		Q68
221P	2015 08 06.48539	16 49 09.49	−06 59 26.8	17.0	N		Q68
221P	2015 08 06.85851	16 49 38.23	−07 00 37.1	17.2	N		B96
221P	2015 08 06.86348	16 49 38.72	−07 00 38.6	17.3	N		B96
221P	2015 08 06.86846	16 49 39.06	−07 00 39.6	16.9	N		B96
221P	2015 08 07.38214	16 50 19.19	−07 01 54.7	17.2	N		Q68
221P	2015 08 07.48648	16 50 27.05	−07 02 12.2	17.0	N		Q68
221P	2015 08 08.38348	16 51 38.08	−07 04 45.6	16.7	N		Q68
221P	2015 08 08.48125	16 51 45.55	−07 05 03.2	17.1	N		Q68
221P	2015 08 10.36987	16 54 18.78	−07 10 46.0	17.1	N		Q68
221P	2015 08 10.46574	16 54 26.39	−07 11 04.0	17.0	N		Q68
221P	2015 08 10.50790	16 54 29.78	−07 11 11.5	17.1	N		Q68
221P	2015 08 16.27832	17 02 47.911	−07 30 50.64	18.4	T		F51
221P	2015 08 16.29058	17 02 48.976	−07 30 53.30	18.4	T		F51
221P	2015 08 16.31510	17 02 51.114	−07 30 58.50	18.5	T		F51
221P	2015 08 16.42526	17 03 01.22	−07 31 15.5	17.0	N		Q68
221P	2015 08 16.42980	17 03 01.61	−07 31 16.4	17.1	N		Q68
221P	2015 08 18.39384	17 06 01.27	−07 38 28.7	17.2	N		Q68
221P	2015 08 18.40981	17 06 02.73	−07 38 32.1	17.3	N		Q68
221P	2015 08 19.86468	17 08 18.84	−07 44 09.5	17.2	N	K	C23
221P	2015 08 19.86901	17 08 19.12	−07 44 09.9	16.8	N	K	C23
221P	2015 08 19.87334	17 08 19.48	−07 44 11.4	16.9	N	K	C23
221P	2015 08 21.82643	17 11 26.02	−07 51 38.7	18.6	N	K	A77
221P	2015 08 21.82971	17 11 26.36	−07 51 39.9	16.8	N	K	B82
221P	2015 08 21.83716	17 11 26.98	−07 51 41.3	17.1	N	K	B82
221P	2015 08 21.83999	17 11 27.36	−07 51 41.5	17.2	N	K	A77
221P	2015 08 21.84321	17 11 27.51	−07 51 42.7	17.5	N	K	B82
221P	2015 08 21.85354	17 11 28.56	−07 51 43.8	18.3	N	c	A77

230P/LINEAR

230P	2015 07 15.86777	01 45 16.59	−04 54 13.2	18	T		C51
Geocentric position (km)	+ 5835.4295	+ 3626.9175	− 112.9645				
230P	2015 07 15.99893	01 45 33.00	−04 53 50.8				C51
Geocentric position (km)	+ 5824.8357	+ 3644.8063	− 74.5773				
230P	2015 07 16.13022	01 45 49.38	−04 53 29.3				C51
Geocentric position (km)	+ 5819.0642	+ 3652.8899	− 119.3381				
230P	2015 07 16.26138	01 46 05.82	−04 53 08.0				C51
Geocentric position (km)	+ 5808.4279	+ 3670.7359	− 81.0714				
230P	2015 07 16.39266	01 46 22.25	−04 52 45.5				C51
Geocentric position (km)	+ 5802.5899	+ 3678.7621	− 125.9113				
230P	2015 07 16.52382	01 46 38.64	−04 52 24.3				C51
Geocentric position (km)	+ 5791.9129	+ 3696.5674	− 87.7573				
230P	2015 07 16.65510	01 46 55.08	−04 52 02.1				C51
Geocentric position (km)	+ 5786.0099	+ 3704.5305	− 132.7136				
230P	2015 07 16.72068	01 47 03.27	−04 51 52.6	18	T		C51
Geocentric position (km)	+ 5780.6807	+ 3713.4317	− 113.6876				
230P	2015 07 16.78626	01 47 11.53	−04 51 42.5				C51
Geocentric position (km)	+ 5775.2936	+ 3722.2954	− 94.6738				
230P	2015 07 16.85184	01 47 19.71	−04 51 31.4				C51
Geocentric position (km)	+ 5769.8505	+ 3731.1148	− 75.7100				
230P	2015 07 16.91742	01 47 27.95	−04 51 20.6				C51
Geocentric position (km)	+ 5764.3504	+ 3739.9066	− 56.6936				
230P	2015 07 17.04870	01 47 44.40	−04 51 00.3				C51
Geocentric position (km)	+ 5758.5711	+ 3747.9098	− 101.8843				
230P	2015 07 17.17986	01 48 00.86	−04 50 39.1				C51
Geocentric position (km)	+ 5747.5872	+ 3765.4830	− 63.9892				
230P	2015 07 17.37673	01 48 25.52	−04 50 08.1				C51
Geocentric position (km)	+ 5736.2542	+ 3782.2083	− 90.3791				
230P	2015 07 17.50788	01 48 42.01	−04 49 48.0				C51
Geocentric position (km)	+ 5725.1241	+ 3799.6657	− 52.6265				
230P	2015 07 17.63917	01 48 58.44	−04 49 27.6				C51
Geocentric position (km)	+ 5719.3212	+ 3807.5534	− 98.4234				
230P	2015 07 17.77033	01 49 14.92	−04 49 06.8				C51
Geocentric position (km)	+ 5708.1587	+ 3824.9687	− 60.8115				
230P	2015 07 17.90161	01 49 31.38	−04 48 46.8				C51
Geocentric position (km)	+ 5702.2605	+ 3832.8257	− 106.3823				
230P	2015 07 20.35293	01 54 40.03	−04 42 51.7	19.4	N		KW96
230P	2015 07 20.37133	01 54 42.39	−04 42 48.7	19.3	N		KW96
230P	2015 07 21.09939	01 56 14.64	−04 41 23.6	18.3	N	K	160
230P	2015 07 21.10143	01 56 14.87	−04 41 23.2	18.6	N	K	160
230P	2015 07 21.10347	01 56 15.06	−04 41 26.2	18.6	N	K	160
230P	2015 07 21.33248	01 56 43.75	−04 40 41.6	18.3	N		KW96
230P	2015 07 21.37513	01 56 49.10	−04 40 34.6	18.1	N		KW96
230P	2015 08 07.69713	02 33 49.71	−04 23 11.6	18.6	N		Q68
230P	2015 08 07.75686	02 33 57.37	−04 23 12.4	18.5	N		Q68
230P	2015 08 10.68606	02 40 17.80	−04 24 26.0	18.5	N	K	Q68
230P	2015 08 10.74754	02 40 25.66	−04 24 28.1	18.4	N	K	Q68
230P	2015 08 12.10672	02 43 22.40	−04 25 37.3	18.2	N	K	160
230P	2015 08 12.10910	02 43 22.69	−04 25 37.7	18.1	N	K	160
230P	2015 08 12.11148	02 43 23.00	−04 25 38.1	17.6	N	K	160
230P	2015 08 12.28903	02 43 46.21	−04 25 40.3	18.1	N		KW96
230P	2015 08 12.31528	02 43 49.59	−04 25 41.4	18.5	N		KW96
230P	2015 08 13.08761	02 45 29.99	−04 26 31.3	17.7	N	K	160
230P	2015 08 13.08997	02 45 30.27	−04 26 31.6	18.5	N	K	160
230P	2015 08 13.09233	02 45 30.55	−04 26 31.8	18.7	N	K	160
230P	2015 08 17.16441	02 54 20.37	−04 31 47.4	18.0	N		J22
230P	2015 08 17.16719	02 54 20.69	−04 31 47.4	18.0	N		J22
230P	2015 08 17.16963	02 54 20.93	−04 31 49.5	18.0	N		J22
230P	2015 08 19.73424	02 59 54.39	−04 36 14.4	17.7	N		Q68
230P	2015 08 19.79539	03 00 02.17	−04 36 22.3	18.2	N		Q68
230P	2015 08 26.07689	03 13 36.71	−04 51 51.7	18.1	T	K	215
230P	2015 08 26.07816	03 13 36.88	−04 51 51.9	18.2	T	K	215
230P	2015 08 26.07943	03 13 37.03	−04 51 52.1	18.1	T	K	215
230P	2015 08 27.28056	03 16 12.38	−04 55 18.0	17.1	N		W96
230P	2015 08 27.34454	03 16 20.22	−04 55 29.0	17.3	N		W96

231P/LINEAR-NEAT

231P	2003 03 10.35297	11 10 16.12	+15 50 07.5	18.4	N		644
231P	2003 03 10.41556	11 10 13.73	+15 50 33.8	18.9	N		644

231P	2003 05 01.23597	10 55 18.06	+18 13 27.7	19.0	N		608
231P	2003 05 01.24707	10 55 18.14	+18 13 26.9	18.9	N		608
231P	2003 05 14.31050	10 59 24.81	+17 38 39.8	19.0	N		608
231P	2003 05 14.32194	10 59 25.12	+17 38 37.2	19.6	N		608
231P	2003 05 14.33262	10 59 25.36	+17 38 34.6	19.5	N		608

287P/Christensen

287P	2015 08 13.07795	02 12 25.57	−03 09 16.2	18.0	T	K 215	
287P	2015 08 13.07898	02 12 25.59	−03 09 16.0	18.6	T	K 215	
287P	2015 08 13.08001	02 12 25.58	−03 09 16.2	18.6	T	K 215	

290P/Jäger

290P	2014 02 18.781541	06 16 13.36	+27 13 43.9	14.9	T	2 089	
290P	2014 02 18.783427	06 16 13.43	+27 13 42.6	14.8	T	2 089	
290P	2014 02 18.785314	06 16 13.46	+27 13 41.2	14.9	T	2 089	
290P	2014 02 18.787201	06 16 13.51	+27 13 39.6	15.0	T	2 089	
290P	2014 03 24.783068	06 49 12.03	+20 43 45.0	15.8	T	2 089	
290P	2014 03 24.784259	06 49 12.12	+20 43 44.3	16.0	T	2 089	
290P	2014 03 24.785451	06 49 12.21	+20 43 43.6	16.1	T	2 089	
290P	2014 03 24.786643	06 49 12.33	+20 43 42.9	15.8	T	2 089	
290P	2014 03 24.794992	06 49 12.95	+20 43 37.6	16.6	T	2 089	
290P	2014 03 24.796191	06 49 13.04	+20 43 36.4	15.9	T	2 089	
290P	2014 03 24.797384	06 49 13.14	+20 43 36.5	15.6	T	2 089	
290P	2014 03 24.798576	06 49 13.25	+20 43 35.3	16.0	T	2 089	
290P	2014 03 24.824019	06 49 15.27	+20 43 20.0	16.1	T	2 089	
290P	2014 03 24.826400	06 49 15.44	+20 43 18.1	15.6	T	2 089	
290P	2014 03 24.930997	06 49 23.92	+20 42 13.9	16.1	T	2 089	
290P	2014 03 24.932187	06 49 23.91	+20 42 12.3	17.9	T	2 089	
290P	2014 03 24.933379	06 49 24.11	+20 42 12.2	15.1	T	2 089	
290P	2014 03 24.934571	06 49 24.17	+20 42 11.9	14.8	T	2 089	
290P	2014 03 24.957878	06 49 25.97	+20 41 56.5	15.5	T	2 089	
290P	2014 03 24.959073	06 49 26.10	+20 41 55.5	15.3	T	2 089	
290P	2014 03 24.960266	06 49 26.21	+20 41 55.0	15.6	T	2 089	
290P	2014 03 29.849420	06 56 12.23	+19 52 26.2	16.0	T	2 089	
290P	2014 03 29.850613	06 56 12.34	+19 52 25.7	15.8	T	2 089	
290P	2014 03 29.851805	06 56 12.39	+19 52 24.8	16.3	T	2 089	
290P	2014 03 29.852997	06 56 12.50	+19 52 23.9	16.0	T	2 089	
290P	2014 03 29.854261	06 56 12.64	+19 52 23.5	15.8	T	2 089	
290P	2014 03 29.855451	06 56 12.72	+19 52 22.5	16.1	T	2 089	
290P	2014 03 29.856643	06 56 12.83	+19 52 21.7	16.0	T	2 089	
290P	2014 03 29.857835	06 56 12.93	+19 52 21.0	16.5	T	2 089	
290P	2014 03 29.877062	06 56 14.58	+19 52 09.4	16.5	T	2 089	
290P	2014 03 29.878252	06 56 14.71	+19 52 09.2	16.4	T	2 089	
290P	2014 03 29.879444	06 56 14.77	+19 52 08.1	15.8	T	2 089	
290P	2014 03 29.880636	06 56 14.91	+19 52 07.6	16.3	T	2 089	
290P	2014 03 29.896391	06 56 16.24	+19 51 57.8	16.3	T	2 089	
290P	2014 03 29.897580	06 56 16.33	+19 51 56.9	15.5	T	2 089	
290P	2014 03 29.898772	06 56 16.46	+19 51 56.0	16.7	T	2 089	
290P	2014 03 29.899965	06 56 16.51	+19 51 56.1	15.8	T	2 089	
290P	2014 03 29.924747	06 56 18.64	+19 51 40.5	17.3	T	2 089	
290P	2014 03 29.927129	06 56 18.78	+19 51 38.8	15.9	T	2 089	
290P	2014 03 29.928321	06 56 18.96	+19 51 38.0	15.4	T	2 089	
290P	2014 03 29.940697	06 56 20.00	+19 51 30.4	15.7	T	2 089	

299P/Catalina-PANSTARRS

299P	2015 07 09.98309	16 39 32.09	−24 32 55.6	17.6	N	9 G40	
299P	2015 07 09.98949	16 39 31.97	−24 32 54.3	17.5	N	9 G40	
299P	2015 07 10.92391	16 39 15.33	−24 29 14.0	17.1	T	K 215	
299P	2015 07 10.92518	16 39 15.31	−24 29 13.6	17.1	T	K 215	
299P	2015 07 10.92646	16 39 15.29	−24 29 13.3	17.1	T	K 215	
299P	2015 07 11.55020	16 39 04.70	−24 26 48.8	17.0	T	D95	
299P	2015 07 11.56098	16 39 04.52	−24 26 46.1			D95	
299P	2015 07 11.56313	16 39 04.47	−24 26 45.8			D95	
299P	2015 07 13.30174	16 38 37.791	−24 20 06.17	18.1	T	F51	
299P	2015 07 13.31234	16 38 37.603	−24 20 03.47	18.1	T	F51	
299P	2015 07 13.32289	16 38 37.451	−24 20 01.31	18.2	T	F51	
299P	2015 07 13.33350	16 38 37.271	−24 19 58.71	18.1	T	F51	
299P	2015 07 14.29774	16 38 24.098	−24 16 21.63	18.4	T	F51	
299P	2015 07 14.29838	16 38 24.082	−24 16 21.63	18.5	T	F51	
299P	2015 07 14.30837	16 38 23.934	−24 16 19.16	18.3	T	F51	
299P	2015 07 14.30902	16 38 23.919	−24 16 19.10	18.4	T	F51	
299P	2015 07 14.31882	16 38 23.791	−24 16 16.93	18.3	T	F51	
299P	2015 07 14.31946	16 38 23.772	−24 16 16.86	18.5	T	F51	
299P	2015 07 14.32957	16 38 23.623	−24 16 14.35	18.2	T	F51	
299P	2015 07 14.33021	16 38 23.609	−24 16 14.35	18.4	T	F51	
299P	2015 07 17.53635	16 37 48.12	−24 04 31.5	17.0	N	30D90	
299P	2015 07 17.53965	16 37 48.06	−24 04 30.8	17.0	N	30D90	
299P	2015 07 17.54296	16 37 48.04	−24 04 30.1	17.0	N	30D90	
299P	2015 07 24.53498	16 37 16.41	−23 41 12.0	17.2	N	30D90	
299P	2015 07 24.53828	16 37 16.36	−23 41 11.9	17.2	N	30D90	
299P	2015 07 24.54159	16 37 16.34	−23 41 11.0	17.2	N	30D90	
299P	2015 08 04.42903	16 38 31.11	−23 11 07.5	17.5	N	Q68	
299P	2015 08 04.43667	16 38 31.17	−23 11 06.9	17.6	N	Q68	
299P	2015 08 06.29142	16 38 58.392	−23 06 47.18	18.8	T	F51	
299P	2015 08 06.30310	16 38 58.580	−23 06 45.23	19.1	T	F51	
299P	2015 08 06.31481	16 38 58.735	−23 06 43.85	19.0	T	F51	
299P	2015 08 06.32653	16 38 58.919	−23 06 42.01	19.1	T	F51	
299P	2015 08 06.45475	16 39 01.03	−23 06 22.3	17.4	N	Q68	
299P	2015 08 06.57660	16 39 02.86	−23 06 04.8	17.4	N	Q68	
299P	2015 08 07.37512	16 39 16.34	−23 04 17.7	17.4	N	Q68	
299P	2015 08 07.48103	16 39 18.07	−23 04 03.7	16.9	N	Q68	
299P	2015 08 08.37640	16 39 34.19	−23 02 05.6	16.7	N	Q68	
299P	2015 08 08.47565	16 39 35.86	−23 01 52.7	16.5	N	Q68	
299P	2015 08 10.36308	16 40 13.00	−22 57 54.0	17.4	N	Q68	
299P	2015 08 10.45439	16 40 14.74	−22 57 43.8	17.6	N	Q68	
299P	2015 08 10.50258	16 40 15.73	−22 57 37.2	17.7	N	Q68	
299P	2015 08 16.41229	16 42 39.26	−22 46 36.6	17.5	N	Q68	
299P	2015 08 16.48775	16 42 41.21	−22 46 28.5	18.7	N	K E07	
299P	2015 08 16.49436	16 42 41.41	−22 46 28.0	18.1	N	K E07	
299P	2015 08 16.54498	16 42 42.77	−22 46 21.7	17.8	N	Q68	

308P/Lagerkvist-Carsenty

308P	2015 07 26.58308	03 52 54.368	+19 01 31.14	21.1	T	F51	
308P	2015 07 26.58829	03 52 54.642	+19 01 32.12	20.8	T	F51	
308P	2015 07 26.59348	03 52 54.896	+19 01 32.94	21.3	T	F51	
308P	2015 07 26.59871	03 52 55.166	+19 01 34.04	21.0	T	F51	

318P/McNaught-Hartley

318P	2015 06 02.81061	22 32 13.89	−32 05 34.3			1 Q62
318P	2015 06 02.81228	22 32 14.00	−32 05 34.4			1 Q62
318P	2015 06 02.81395	22 32 14.13	−32 05 34.4	16.8	T	1 Q62
318P	2015 07 05.44411	23 01 02.79	−33 15 51.4	16.9	N	E94
318P	2015 07 05.48045	23 01 03.88	−33 16 01.2	17.2	N	E94
318P	2015 07 05.51806	23 01 05.04	−33 16 09.4	17.0	N	E94
318P	2015 07 08.30133	23 02 29.82	−33 26 29.1	17.3	T	W95
318P	2015 07 08.31511	23 02 30.18	−33 26 32.3	17.0	T	W95
318P	2015 07 08.32889	23 02 30.55	−33 26 35.8	17.0	T	W95
318P	2015 07 08.34267	23 02 30.93	−33 26 38.8	17.0	T	W95
318P	2015 07 20.16154	23 06 17.13	−34 15 01.1	16.4	N	W98
318P	2015 07 20.17615	23 06 17.24	−34 15 05.0	16.3	N	W98
318P	2015 07 20.19079	23 06 17.35	−34 15 08.9	16.4	N	W98
318P	2015 07 22.54005	23 06 35.24	−34 25 10.7	16.1	N	30D90
318P	2015 07 22.54312	23 06 35.28	−34 25 11.4	16.1	N	30D90
318P	2015 07 22.54927	23 06 35.32	−34 25 12.9	16.1	N	30D90
318P	2015 07 25.73562	23 06 44.58	−34 38 53.2			K 367
318P	2015 07 25.73886	23 06 44.60	−34 38 54.3			K 367
318P	2015 07 25.74191	23 06 44.58	−34 38 55.1	15.5	T	K 367
318P	2015 07 26.73041	23 06 44.14	−34 43 04.1	15.5	T	349
318P	2015 07 26.73979	23 06 44.09	−34 43 06.2			349
318P	2015 08 06.64359	23 04 54.84	−35 25 15.4	16.2	N	Q68
318P	2015 08 06.69819	23 04 53.71	−35 25 26.5	16.2	N	Q68
318P	2015 08 07.37690	23 04 40.49	−35 27 42.9	16.1	N	W96
318P	2015 08 07.38983	23 04 40.15	−35 27 46.1	16.0	N	W96
318P	2015 08 07.52971	23 04 38.03	−35 28 12.1	16.3	N	Q68
318P	2015 08 07.64049	23 04 35.56	−35 28 35.0	16.3	N	Q68
318P	2015 08 08.52358	23 04 17.47	−35 31 24.7	16.2	N	Q68
318P	2015 08 08.53891	23 04 17.16	−35 31 27.7	15.8	N	30D90
318P	2015 08 08.54505	23 04 17.04	−35 31 28.7	15.8	N	30D90
318P	2015 08 08.55117	23 04 16.90	−35 31 29.9	15.8	N	30D90
318P	2015 08 08.61774	23 04 15.26	−35 31 43.3	16.2	N	Q68
318P	2015 08 10.56120	23 03 30.80	−35 37 34.3	16.2	N	Q68
318P	2015 08 10.59509	23 03 29.91	−35 37 40.5	16.2	N	Q68
318P	2015 08 13.75775	23 02 05.73	−35 45 56.5	16.1	N	Q68
318P	2015 08 13.78326	23 02 05.08	−35 45 59.1	16.1	N	Q68
318P	2015 08 15.12046	23 01 25.96	−35 49 03.2	15.9	N	J22
318P	2015 08 15.12141	23 01 25.94	−35 49 03.2	15.9	N	J22
318P	2015 08 15.12431	23 01 25.80	−35 49 03.3	15.9	N	J22
318P	2015 08 17.29252	23 00 17.41	−35 53 03.8	16.0	N	W96
318P	2015 08 17.33300	23 00 15.96	−35 53 07.3	16.0	N	W96
318P	2015 08 19.66027	22 58 57.23	−35 56 22.7	16.1	N	Q68
318P	2015 08 19.68544	22 58 56.29	−35 56 24.3	16.1	N	Q68
318P	2015 08 22.02983	22 57 31.79	−35 58 30.8	15.8	N	J22
318P	2015 08 22.03101	22 57 31.77	−35 58 30.9	15.8	N	J22
318P	2015 08 22.03218	22 57 31.73	−35 58 30.9	15.8	N	J22

319P/Catalina-McNaught

319P	2015 05 16.71115	21 34 08.92	−06 43 27.9	17.3	T	K D95
319P	2015 05 16.71699	21 34 10.43	−06 43 26.1			K D95
319P	2015 05 16.71845	21 34 10.79	−06 43 25.6			K D95
319P	2015 06 28.05392	00 47 24.11	−04 33 48.1	17.5	N	K 160
319P	2015 06 28.05635	00 47 24.75	−04 33 47.9	17.4	N	K 160
319P	2015 06 28.05877	00 47 25.24	−04 33 50.7	17.3	N	K 160
319P	2015 07 04.20307	01 13 25.12	−04 29 10.5	17.5	N	9 G40
319P	2015 07 04.20911	01 13 26.59	−04 29 10.5	17.3	N	9 G40
319P	2015 07 04.21607	01 13 28.25	−04 29 10.1	17.4	N	9 G40
319P	2015 07 12.05678	01 44 17.85	−04 30 30.9	17.9	N	K 160
319P	2015 07 12.05885	01 44 18.37	−04 30 31.3	17.3	N	K 160
319P	2015 07 12.06091	01 44 18.86	−04 30 32.0	17.8	N	K 160
319P	2015 07 13.06684	01 48 03.28	−04 31 16.7	17.7	N	K 160
319P	2015 07 13.06890	01 48 03.73	−04 31 18.1	18.4	N	K 160
319P	2015 07 13.07097	01 48 04.24	−04 31 18.7	18.3	N	K 160
319P	2015 07 15.28880	01 56 08.92	−04 33 19.5	17.4	T	W95
319P	2015 07 15.30251	01 56 11.85	−04 33 20.7	17.5	T	W95
319P	2015 07 15.31625	01 56 14.76	−04 33 21.3	17.4	T	W95
319P	2015 07 15.32998	01 56 17.70	−04 33 22.4	17.5	T	W95
319P	2015 07 20.07938	02 12 43.59	−04 40 44.2	17.5	N	K 160
319P	2015 07 20.08178	02 12 44.04	−04 40 44.9	18.1	N	K 160
319P	2015 07 20.08416	02 12 44.53	−04 40 45.1	17.7	N	K 160
319P	2015 07 20.38375	02 13 44.22	−04 41 05.2	17.0	N	KW96
319P	2015 07 20.42981	02 13 53.21	−04 41 11.3	17.4	N	KW96
319P	2015 07 21.10826	02 16 07.83	−04 42 41.8	17.9	N	K 160
319P	2015 07 21.11034	02 16 08.24	−04 42 42.5	17.8	N	K 160
319P	2015 07 21.11228	02 16 08.63	−04 42 43.3	18.0	N	K 160
319P	2015 07 22.71826	02 21 20.96	−04 45 50.4	17.2	N	30D90
319P	2015 07 22.72025	02 21 21.30	−04 45 49.4	17.2	N	30D90
319P	2015 07 22.72226	02 21 21.75	−04 45 50.0	17.2	N	30D90
319P	2015 07 27.67720	02 36 32.77	−04 58 35.6	16	T	C51
Geocentric position (km)		+ 4973.3325	+ 4735.5380	− 204.9692		
319P	2015 07 27.75944	02 36 47.77	−04 58 55.1	17.5	T	372
319P	2015 07 27.76806	02 36 49.23	−04 58 57.3			372
319P	2015 07 27.93965	02 37 18.89	−04 59 21.4			C51
Geocentric position (km)		+ 4952.4146	+ 4756.8633	− 217.5973		
319P	2015 07 28.07080	02 37 41.84	−04 59 44.6	16	T	C51
Geocentric position (km)		+ 4938.9902	+ 4772.2255	− 182.2383		
319P	2015 07 28.20209	02 38 04.78	−05 00 07.7			C51
Geocentric position (km)		+ 4931.3668	+ 4778.1132	− 229.9248		
319P	2015 07 28.33325	02 38 27.62	−05 00 31.2			C51
Geocentric position (km)		+ 4917.9221	+ 4793.4570	− 194.5902		
319P	2015 07 28.46453	02 38 50.46	−05 00 54.8			C51
Geocentric position (km)		+ 4910.2175	+ 4799.2408	− 242.3573		
319P	2015 07 28.59569	02 39 13.19	−05 01 18.6			C51
Geocentric position (km)		+ 4896.7586	+ 4814.5610	− 207.1098		
319P	2015 07 28.72685	02 39 35.90	−05 01 42.4			C51
Geocentric position (km)		+ 4883.1246	+ 4829.7158	− 171.8541		
319P	2015 07 28.85813	02 39 58.56	−05 02 06.0			C51
Geocentric position (km)		+ 4875.4981	+ 4835.5456	− 219.7351		
319P	2015 07 28.92371	02 40 09.85	−05 02 18.4			C51
Geocentric position (km)		+ 4868.6967	+ 4843.1352	− 202.1327		
319P	2015 07 28.98929	02 40 21.12	−05 02 30.3			C51
Geocentric position (km)		+ 4861.8520	+ 4850.6779	− 184.5648		
319P	2015 07 29.05487	02 40 32.41	−05 02 42.4			C51
Geocentric position (km)		+ 4854.9609	+ 4858.1836	− 166.9462		

319P	2015 07 29.05500	02 40 32.42	−05 02 42.2			C51
Geocentric position (km)	+ 4860.9092	+ 4848.7820	− 250.0807			
319P	2015 07 29.12058	02 40 43.68	−05 02 54.7			C51
Geocentric position (km)	+ 4854.1404	+ 4856.4085	− 232.4687			
319P	2015 07 29.18615	02 40 54.90	−05 03 06.6			C51
Geocentric position (km)	+ 4847.3280	+ 4863.9846	− 214.8974			
319P	2015 07 29.25173	02 41 06.13	−05 03 18.7			C51
Geocentric position (km)	+ 4840.4774	+ 4871.5237	− 197.3284			
319P	2015 07 29.31731	02 41 17.36	−05 03 30.9			C51
Geocentric position (km)	+ 4833.5808	+ 4879.0115	− 179.7935			
319P	2015 07 29.44860	02 41 39.73	−05 03 56.0			C51
Geocentric position (km)	+ 4825.8628	+ 4884.7137	− 227.7616			
319P	2015 07 29.57976	02 42 02.11	−05 04 20.6			C51
Geocentric position (km)	+ 4812.1881	+ 4899.3746	− 195.1615			
319P	2015 07 29.64533	02 42 13.25	−05 04 33.0			C51
Geocentric position (km)	+ 4805.2514	+ 4906.8109	− 177.7031			
319P	2015 07 29.71104	02 42 24.40	−05 04 45.3			C51
Geocentric position (km)	+ 4804.3872	+ 4904.9372	− 243.3622			
319P	2015 07 29.77662	02 42 35.54	−05 04 57.7			C51
Geocentric position (km)	+ 4797.5340	+ 4912.4433	− 225.9875			
319P	2015 07 29.84220	02 42 46.62	−05 05 10.5			C51
Geocentric position (km)	+ 4790.6374	+ 4919.9085	− 208.5951			
319P	2015 07 29.97336	02 43 08.81	−05 05 35.3			C51
Geocentric position (km)	+ 4776.7200	+ 4934.7144	− 173.8216			
319P	2015 07 29.97348	02 43 08.82	−05 05 35.4			C51
Geocentric position (km)	+ 4782.7569	+ 4925.3541	− 256.9242			
319P	2015 07 30.36708	02 44 15.03	−05 06 51.8			C51
Geocentric position (km)	+ 4747.2556	+ 4960.5896	− 235.9014			
319P	2015 07 30.49824	02 44 36.98	−05 07 17.7			C51
Geocentric position (km)	+ 4733.3220	+ 4975.3558	− 201.3061			
319P	2015 08 07.76819	03 05 50.95	−05 38 53.3	17.8	N	Q68
319P	2015 08 07.78365	03 05 53.08	−05 38 58.5	17.8	N	Q68
319P	2015 08 10.75992	03 12 37.73	−05 52 39.4	18.0	N	K Q68
319P	2015 08 10.77271	03 12 39.36	−05 52 43.7	18.0	N	K Q68
319P	2015 08 13.11296	03 17 37.32	−06 04 33.0	17.9	T	K 215
319P	2015 08 13.11411	03 17 37.41	−06 04 31.8	18.9	T	K 215
319P	2015 08 13.11513	03 17 37.51	−06 04 32.0	18.9	T	K 215
319P	2015 08 17.18181	03 25 33.06	−06 26 12.8	18.0	N	J22
319P	2015 08 17.18265	03 25 33.07	−06 26 14.1	18.0	N	J22
319P	2015 08 17.18492	03 25 33.29	−06 26 15.7	18.0	N	J22
319P	2015 08 19.37844	03 29 27.19	−06 38 39.1	18.4	N	KW96
319P	2015 08 19.40219	03 29 29.52	−06 38 47.8	18.6	N	KW96
319P	2015 08 27.35029	03 41 25.38	−07 28 24.3	18.1	N	KW96
319P	2015 08 27.38511	03 41 27.97	−07 28 38.3	18.1	N	KW96

320P/McNaught

320P	2015 08 15.87675	14 31 12.62	−10 44 52.0	19.7	N	9 G40
320P	2015 08 15.90376	14 31 22.32	−10 44 47.7			9 G40

324P/La Sagra

324P	2015 07 12.55798	19 39 34.36	−07 34 16.0	20.6	N	K 474
324P	2015 07 13.51832	19 38 39.73	−07 28 30.0			K 474
324P	2015 07 13.52359	19 38 39.41	−07 28 27.8			K 474
324P	2015 07 17.52792	19 34 50.29	−07 05 39.6	21.1	N	K 474
324P	2015 07 17.53495	19 34 49.85	−07 05 37.2	21.0	N	K 474

325P/Yang-Gao

325P	2015 08 04.34974	12 44 40.11	−11 33 20.2	18.6	N	K Q68
325P	2015 08 04.36071	12 44 42.30	−11 33 26.2	18.5	N	K Q68
325P	2015 08 04.37854	12 44 45.63	−11 33 33.9	18.6	N	K Q68

326P/Hill

326P	1990 09 24.45811	21 59 23.96	−15 27 34.2	19.2	N	16 260
326P	1990 09 24.51020	21 59 22.84	−15 27 39.2	19.0	N	16 260
326P	2015 08 08.01672	01 15 54.12	+04 41 33.3	19.6	T	K 461
326P	2015 08 08.02657	01 15 54.38	+04 41 34.3	19.4	T	K 461
326P	2015 08 08.03642	01 15 54.58	+04 41 34.3	20.1	T	K 461
326P	2015 08 09.01785	01 16 17.51	+04 42 44.8			K 461
326P	2015 08 09.02769	01 16 17.76	+04 42 45.4	20.0	T	K 461
326P	2015 08 09.03753	01 16 17.98	+04 42 46.0	20.1	T	K 461
326P	2015 08 18.44633	01 18 57.40	+04 47 49.1			K 291
326P	2015 08 18.45307	01 18 57.47	+04 47 49.2			K 291
326P	2015 08 18.45980	01 18 57.56	+04 47 49.1	19.6	T	K 291
326P	2015 08 21.09860	01 19 22.15	+04 47 13.2	20.0	N	K A77
326P	2015 08 21.11515	01 19 22.26	+04 47 12.7	19.5	N	K A77
326P	2015 08 21.13170	01 19 22.38	+04 47 12.4	19.6	N	K A77
326P	2015 08 23.18684	01 19 35.30	+04 46 13.6	19.5	N	KW96
326P	2015 08 23.31501	01 19 35.84	+04 46 07.0	19.6	N	KW96
326P	2015 08 25.34001	01 19 42.69	+04 44 32.5	19.8	N	KW96
326P	2015 08 25.37314	01 19 42.68	+04 44 29.4	20.1	N	KW96
326P	2015 08 26.06780	01 19 43.96	+04 43 45.1	19.5	T	K 215
326P	2015 08 26.06971	01 19 43.98	+04 43 44.8	19.7	T	K 215
326P	2015 08 26.07162	01 19 43.99	+04 43 44.5	19.7	T	K 215

327P/Van Ness

327P	2015 08 06.38648	18 14 33.789	+29 37 14.41	19.9	T	F51
327P	2015 08 06.41325	18 14 33.032	+29 36 45.12	19.6	T	F51
327P	2015 08 06.42681	18 14 32.670	+29 36 30.63	19.8	T	F51
327P	2015 08 10.87366	18 12 59.01	+28 11 54.3	19.5	T	K 461
327P	2015 08 10.87956	18 12 58.95	+28 11 47.0	18.8	T	K 461
327P	2015 08 10.88546	18 12 58.81	+28 11 40.1	19.1	T	K 461
327P	2015 08 12.31089	18 12 37.30	+27 42 39.3			32H06
327P	2015 08 12.31409	18 12 37.31	+27 42 36.0			32H06
327P	2015 08 12.31729	18 12 37.35	+27 42 32.9	19.0	T	32H06
327P	2015 08 12.89859	18 12 30.03	+27 30 24.6	19.3	T	K 215
327P	2015 08 12.90012	18 12 29.99	+27 30 22.9	19.5	T	K 215
327P	2015 08 12.90166	18 12 29.93	+27 30 21.0	19.2	T	K 215
327P	2015 08 18.85886	18 11 58.05	+25 18 26.8	19.4	N	K A71
327P	2015 08 18.88270	18 11 58.03	+25 17 53.8	16.4	N	K A71

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

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

E07 Murrumbateman. Observer D. Herald. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
Neptune II	2015 08	14.57937	22 42 46.94	−09 01 11.6	19.6 V	K E07
Neptune II	2015 08	14.59097	22 42 46.90	−09 01 11.9	19.3 V	K E07
Neptune II	2015 08	14.63144	22 42 46.69	−09 01 13.4	20.0 V	K E07
Neptune II	2015 08	15.63648	22 42 40.80	−09 01 49.5	19.4 V	K E07
Neptune II	2015 08	15.64806	22 42 40.73	−09 01 49.9	19.3 V	K E07
Neptune II	2015 08	16.59882	22 42 35.14	−09 02 24.1	19.2 V	K E07
Neptune II	2015 08	16.61088	22 42 35.11	−09 02 24.8	19.3 V	K E07
Uranus XVI	2015 08	21.98683	01 14 50.16	+07 07 34.2	20.9 V	K C95
Uranus XVI	2015 08	22.05084	01 14 49.80	+07 07 30.8	21.7 V	K C95
Uranus XVI	2015 08	22.09352	01 14 49.58	+07 07 30.4	21.8 V	K C95
Uranus XVII	2015 08	21.98683	01 15 37.66	+07 21 42.1	20.6 V	K C95
Uranus XVII	2015 08	22.05084	01 15 37.32	+07 21 40.7	20.5 V	K C95
Uranus XVII	2015 08	22.09352	01 15 37.16	+07 21 39.5	21.1 V	K C95

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

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Observers A. Bernal, J. M. Codina, J. Nuñez, N. Torras
0.35-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-2

2012 TM_{139}, 4, 1, 0; (4055), 5, 1, 0; (7822), 4, 1, 0; (7889), 5, 1, 0; (85989), 3, 1, 0; (206378), 6, 1, 0; (348400), 3, 1, 0; (436724), 5, 1, 0; *[35, 8, 0*, 2015/07/04–2015/08/10]*

026 Berne-Zimmerwald

P. Wild, Astronomisches Institut der Universität, Sidlerstrasse 5, CH-3012 Berne, Switzerland [schildknecht@aiub.unibe.ch]
Observers T. D'Autilia, D. Bodenmann, E. Cordelli, E. Linder, L. Thürlemann
1.0-m $f/4.0$ reflector + CCD
UCAC-4, PPMXL

2015 BL_{15}, 3, 1, 0; 2015 BK_{98}, 3, 1, 0; 2015 BD_{99}, 6, 2, 8; 2015 BO_{169}, 5, 2, 8; 2015 BA_{171}, 3, 1, 0; (1486), 3, 1, 0; (9311), 6, 2, 8; (28239), 3, 1, 0; (46365), 2, 1, 0; (48587), 3, 1, 0; (53291), 3, 1, 0; (84026), 3, 1, 0; (85895), 3, 1, 0; (107747), 2, 1, 0; (120586), 3, 1, 0; (136472), 6, 2, 6; (138169), 3, 1, 0; (175800), 2, 1, 0; (190289), 6, 2, 8; (237359), 3, 1, 0; (253415), 3, 1, 0; (254614), 3, 1, 0; (264498), 3, 1, 0; (279038), 6, 2, 8; (330455), 5, 2, 8; (333614), 3, 1, 0; (374963), 3, 1, 0; (404597), 6, 2, 8; (427543), 3, 1, 0; *[106, 29, 0*, 2015/02/12–2015/03/20]*

033 Karl Schwarzschild Observatory, Tautenburg

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Observers B. Stecklum, F. Ludwig, A. Jindal, C. Hoegner, U. Laux
1.34-m $f/4$ Schmidt + CCD
2MASS

2006 QT_{89}, 3, 1, 0; 2010 PD_1, 4, 1, 0; 2011 YS_{39}, 4, 1, 0; 2012 PU_{17}, 3, 1, 0; 2012 TM_{139}, 6, 1, 0; 2015 KN_{120}, 7, 1, 0; 2015 LB_{40}, 4, 1, 0; 2015 MP_{130}, 2, 1, 0; 2015 NF_3, 5, 1, 0; 2015 NH_3, 6, 1, 0; 2015 NJ_3, 13, 3, 2; 2015 NK_3, 3, 1, 0; 2015 NL_3, 2, 1, 0; 2015 NV_{13}, 5, 2, 1; 2015 NW_{13}, 4, 1, 0; 2015 NX_{13}, 5, 1, 0; 2015 NZ_{13}, 10, 2, 1; 2015 NA_{14}, 9, 1, 0; 2015 NB_{14}, 9, 2, 1; 2015 NG_{24}, 5, 1, 0; 2015 NH_{24}, 4, 1, 0; 2015 OL, 8, 1, 0; 2015 OO, 4, 1, 0; 2015 OS, 8, 1, 0; 2015 OC_{22}, 4, 1, 0; 2015 PU_{228}, 7, 1, 0; 2015 PV_{228}, 10, 1, 0; 2015 PJ_{291}, 10, 1, 0; 2015 QJ_3, 2, 1, 0; 2015 QL_3, 5, 1, 0; 2015 QM_3, 5, 1, 0; 2015 QN_3, 6, 1, 0; 2015 QO_3, 11, 1, 0; *[193, 33, 0*, 2015/07/09–2015/08/21]*

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

2014 WP_{412}, 3, 1, 0; 2015 OZ_{65}, 3, 1, 0; *[6, 2, 0*, 2002/02/13–2002/09/07]*

069 Baldone

I. Eglitis, Institute of Astronomy University of Latvia, Boulevard Rainis 19, Riga, Latvia [ilgmars@latnet.lv]
Observer L. Začs
Measurers I. Rudzinska, I. Jumare
0.8-m Schmidt telescope
PPM

2015 NQ_{23}, 4, 1, 0; *[4, 1, 0*, 2010/04/15]*

073 Bucharest

G. Boçsa, Center for Astronomy and Space Sciences, Cutitul de Argint 5, R-75212 Bucharest, Romania [mstavinschi@imar.ro]
Observers A. Sonka, M. Popescu
0.50-m $f/15$ reflector + CCD
PPMXL

(85989), 71, 11, 14; (206378), 17, 2, 1; (348400), 19, 3, 2; *[107, 3, 0*, 2015/07/06–2015/08/25]*

089 Nikolaev

O. V. Shulga, 1 Observatornaya vul., Nikolaev Astronomical Observatory, UA-54030 Mykolaiv, Ukraine [avshulga@mail.ru] (2)
Observers Y. Sybiryakova, Y. Kozyryev, N. Kulichenko, V. Vovk
Measurers Y. Sybiryakova, O. V. Shulga
0.5-m $f/6.0$ Maksutov + CCD
UCAC-3, UCAC-4

2004 MW_2, 10, 1, 0; 2010 PR_{66}, 21, 3, 5; 2012 NP, 11, 2, 1; 2012 OD_1, 5, 1, 0; 2015 JY_1, 10, 1, 0; 2015 LG_2, 24, 3, 5; 2015 MX_{53}, 4, 1, 0; 2015 NF, 10, 1, 0; 2015 NZ_{13}, 6, 1, 0; 2015 NA_{14}, 39, 5, 16; 2015 OQ_{21}, 13, 1, 0; (1566), 9, 1, 0; (85989), 28, 3, 30; (152679), 10, 1, 0; (242191), 13, 2, 15; (281375), 9, 1, 0; (348400), 10, 1, 0; (385186), 23, 2, 16; (436724), 32, 4, 16; *[287, 19, 0*, 2015/06/23–2015/08/08]*

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 PW_{217}, 2, 1, 0; *[2, 1, 0*, 2004/08/23]*

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, F. Bernardi, D. Antonacci, F. Rossi, M. Dimartino, L. Nerli, M. Facchini, A. Valvasori, M. Bachini, M. Fragai
Measurers P. Bacci, L. Tesi, G. Fagioli

0.60-m $f/4$ reflector + CCD
UCAC-4, PPMXL, UCAC-3

2015 BD_{99}, 2, 1, 0; 2015 BK_{515}, 4, 1, 0; 2015 JH_2, 2, 1, 0; 2015 JJ_2, 3, 1, 0; 2015 LG_{21}, 3, 1, 0; 2015 ME_{116}, 3, 1, 0; 2015 NG, 3, 1, 0; 2015 NR_2, 3, 1, 0; 2015 NU_2, 3, 1, 0; 2015 NJ_3, 5, 2, 1; 2015 NH_{13}, 2, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 NB_{14}, 3, 1, 0; 2015 OG, 3, 1, 0; 2015 OH, 3, 1, 0; 2015 ON, 3, 1, 0; 2015 OO, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OC_{22}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 OX_{77}, 3, 1, 0; 2015 PA, 3, 1, 0; 2015 PC, 3, 1, 0; 2015 PP_{56}, 3, 1, 0; 2015 PQ_{56}, 3, 1, 0; 2015 PR_{56}, 3, 1, 0; 2015 PA_{57}, 3, 1, 0; 2015 PA_{229}, 3, 1, 0; 2015 PB_{229}, 3, 1, 0; 2015 PC_{229}, 3, 1, 0; 2015 QA, 3, 1, 0; 2015 QB, 3, 1, 0; 2015 QJ, 3, 1, 0; 2015 QK, 3, 1, 0; 2015 QM_3, 3, 1, 0; 2015 QN_3, 2, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QP_3, 2, 1, 0; 2015 QT_3, 2, 1, 0; 2015 QS_8, 3, 1, 0; 2015 QT_8, 3, 1, 0; 2015 QW_8, 3, 1, 0; 2015 QX_8, 3, 1, 0; 2015 QB_9, 2, 1, 0; (389), 2, 1, 0; (2113), 3, 1, 0; (4073), 3, 1, 0; (6152), 3, 1, 0; (9031), 3, 1, 0; (9801), 3, 1, 0; (10147), 3, 1, 0; (10907), 3, 1, 0; (12239), 3, 1, 0; (13165), 3, 1, 0; (13351), 3, 1, 0; (15335), 3, 1, 0; (18124), 3, 1, 0; (18754), 3, 1, 0; (24413), 3, 1, 0; (25652), 3, 1, 0; (26977), 3, 1, 0; (27047), 3, 1, 0; (28127), 2, 1, 0; (28284), 3, 1, 0; (30561), 3, 1, 0; (34444), 3, 1, 0; (38278), 3, 1, 0; (39121), 3, 1, 0; (41294), 3, 1, 0; (42738), 2, 1, 0; (42780), 3, 1, 0; (43325), 3, 1, 0; (45097), 3, 1, 0; (47793), 2, 1, 0; (49986), 3, 1, 0; (50481), 2, 1, 0; (50929), 2, 1, 0; (54721), 2, 1, 0; (54978), 2, 1, 0; (57055), 3, 1, 0; (61560), 3, 1, 0; (64780), 3, 1, 0; (73740), 3, 1, 0; (77037), 3, 1, 0; (83606), 3, 1, 0; (92751), 3, 1, 0; (93526), 3, 1, 0; (94042), 3, 1, 0; (104171), 3, 1, 0; (134340), 2, 1, 0; (152706), 2, 1, 0; (156055), 3, 1, 0; (181791), 3, 1, 0; (184578), 2, 1, 0; (190757), 3, 1, 0; (241596), 3, 1, 0; (385186), 6, 2, 2; (436724), 7, 2, 19; *[292, 100, 0∗, 2008/10/26–2015/08/23]*

106 Črni Vrh

H. Mikuž, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]
Observers B. Mikuž, S. Matičič, J. Skvarč, J. Vales, H. Mikuž
0.6-m $f/3.3$ Deltagraph + CCD
UCAC-2

2000 SF_{14}, 4, 1, 0; 2000 XH_{47}, 8, 2, 2; 2004 RN_{247}, 4, 1, 0; 2004 TC_{112}, 4, 1, 0; 2005 WM_{72}, 4, 1, 0; 2005 YE_{273}, 4, 1, 0; 2006 TM_{12}, 4, 1, 0; 2007 VK_{93}, 8, 2, 39; 2008 SH_{287}, 4, 1, 0; 2009 DE, 4, 1, 0; 2009 LK, 4, 1, 0; 2011 US_{28}, 4, 1, 0; 2011 UY_{400}, 8, 2, 2; 2014 JE_{35}, 4, 1, 0; 2014 WF_{341}, 4, 1, 0; 2014 YU_{31}, 4, 1, 0; 2015 FX_{24}, 4, 1, 0; 2015 JF_3, 12, 3, 4; 2015 KY, 8, 2, 7; 2015 KM_{56}, 4, 1, 0; 2015 MS_{114}, 4, 1, 0; 2015 MM_{124}, 4, 1, 0; 2015 NF, 4, 1, 0; 2015 OG, 4, 1, 0; 2015 OS ∗, 8, 2, 1; 2015 OG_3, 4, 1, 0; 2015 OY_{22}, 4, 1, 0; 2015 OF_{25}, 8, 2, 2; 2015 PT ∗, 11, 4, 3; 2015 PK_9, 3, 1, 0; 2015 PU_{12} ∗, 12, 3, 3; 2015 PM_{34} ∗, 12, 3, 4; 2015 PQ_{254} ∗, 8, 2, 2; 2015 PR_{254} ∗, 8, 2, 2; 2015 PA_{281}, 4, 1, 0; (32722), 4, 1, 0; (73324), 4, 1, 0; (91762), 4, 1, 0; (94321), 4, 1, 0; (104621), 4, 1, 0; (107032), 4, 1, 0; (169969), 4, 1, 0; (176243), 4, 1, 0; (188552), 4, 1, 0; (197945), 4, 1, 0; (200118), 4, 1, 0; (206150), 4, 1, 0; (254286), 4, 1, 0; (287973), 4, 1, 0; (294089), 4, 1, 0; (299696), 4, 1, 0; (352546), 4, 1, 0; (353053), 4, 1, 0; (354253), 4, 1, 0; (358548), 4, 1, 0; (387038), 4, 1, 0; (388048), 4, 1, 0; (388466), 4, 1, 0; (389619), 4, 1, 0; (400996), 4, 1, 0; (437930), 4, 1, 0; (438341), 4, 1, 0; (439171), 4, 1, 0; *[314, 63, 6∗, 2011/03/08–2015/08/27]*

107 Cavezzo

M. Nicolini, via C. Battisti 48, I-41032 Carpi (MO), Italy [mnico@iol.it]
Observers M. Facchini, L. Facchini, R. Bonomi
0.4-m $f/5.5$ reflector + CCD
USNO-B1.0

(15386), 3, 1, 0; (21885), 1, 1, 0; *[4, 2, 0∗, 2015/08/05–2015/08/22]*

113 Volkssternwarte Drebach, Schoenbrunn

G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany [g.l@kleinplanetenseite.de]
Observers G. Lehmann, J. Kandler, T. Payer, T. Lehmann, G. Wollenhaupt
0.5-m $f/5$ reflector + CCD, 0.18-m $f/9.0$ refractor + CCD
USNO-A2.0

2015 PK_{144}, 3, 1, 0; *[3, 1, 0∗, 2007/04/14]*

114 Engelhardt Observatory, Zelenchukskaya Station

T. V. Kryachko, University Astronomical Station, Lenina 41, Zelenchukskaya, 357140 Karachaevo-Cherkessia Republic, Russia [timur@sao.stavropol.su]
0.40-m $f/5$ camera

2006 BX_{110}, 3, 1, 0; 2014 VB_{12}, 4, 1, 0; 2014 WY_7, 7, 2, 3; 2015 NR_{25}, 5, 1, 0; 2015 OK_{23}, 4, 1, 0; 2015 OM_{38}, 4, 1, 0; *[27, 6, 0∗, 2009/11/18–2011/11/02]*

118 Modra

Š. Gajdoš, FMFI UK, P.O. Box 4, SK-90001 Modra, Slovakia [ago@fmph.uniba.sk]
Observers Š. Gajdoš, L. Kornoš, P. Hrabek, S. Kozakova, P. Rusnak, J. Világi
0.6-m $f/5.5$ reflector + CCD
UCAC-3, UCAC-4

2002 QT_{94}, 2, 1, 0; 2004 RV_{68}, 2, 1, 0; 2011 WJ_{39}, 2, 1, 0; 2014 HG_{149}, 2, 1, 0; 2015 MN_{116}, 4, 1, 0; 2015 MO_{116}, 3, 1, 0; 2015 MH_{130}, 4, 1, 0; 2015 PH_9, 2, 1, 0; 2015 PK_9, 4, 1, 0; (854), 5, 2, 16; (956), 5, 2, 16; (8271), 5, 2, 3; (10202), 3, 1, 0; (16703), 4, 2, 4; (52824), 2, 1, 0; (63366), 3, 1, 0; (70809), 2, 1, 0; (118964), 3, 1, 0; (123057), 2, 1, 0; (346314), 4, 2, 16; *[63, 20, 0∗, 2015/06/25–2015/08/25]*

122 Pises Observatory

J.-M. Lopez, 5 Rue Meyrueis, F-34000 Montpellier, France [jean.m.lopez2@wanadoo.fr]
Observers D. Matter, C. Demeautis, J.-M. Lopez
0.50-m $f/4.4$ reflector + CCD
USNO-A2.0, UCAC-4

2000 TG_2, 3, 1, 0; 2015 MP_1, 3, 1, 0; (76571), 3, 1, 0; (77465), 3, 1, 0; (84057), 3, 1, 0; (215589), 3, 1, 0; (313365), 3, 1, 0; *[21, 7, 0∗, 2015/07/19–2015/08/18]*

130 Lumezzane

M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs@tiscali.it]
Observers M. Casali, A. Coffano, W. Marinello, M. Micheli, G. Pizzetti
0.40-m $f/5.12$ reflector + CCD
PPMXL

2010 PR_{66}, 3, 1, 0; (416680), 3, 1, 0; *[6, 2, 0∗, 2015/04/21–2015/07/21]*

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

2002 TE_{192}, 4, 1, 0; 2006 AW, 3, 1, 0; 2009 DE, 3, 1, 0; 2009 SK_1, 3, 1, 0; 2010 PR_{66}, 8, 2, 2; 2012 OD_1, 4, 1, 0; 2012 TM_{139}, 3, 1, 0; 2015 JY_1, 6, 2, 37; 2015 LG_2, 7, 1, 0; 2015 NK_{13}, 4, 2, 23; 2015 NS_{13}, 4, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 NB_{14}, 4, 1, 0; 2015 OH, 7, 1, 0; 2015 OL_{35}, 7, 1, 0; 2015 PA, 3, 1, 0; 2015 PC, 2, 1, 0; 2015 PU_{228}, 3, 1, 0; 2015 QN_3, 2, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QT_3, 14, 2, 5; *[100, 22, 0∗, 2015/07/15–2015/08/26]*

152 Moletai Astronomical Observatory

K. Černis, Institute of Theoretical Physics and Astronomy, Vilnius University, Gostauto 12, LT-2000 Vilnius, Lithuania [cernis@itpa.lt]
Observer K. Černis
0.35-m $f/3.5$ reflector + CCD
UCAC-2

2014 WA_{423}, 3, 1, 0; 2015 OC_{13}, 3, 1, 0; (5753), 3, 1, 0; (8617), 1, 1, 0; (9136), 2, 1, 0; (9900), 1, 1, 0; (12714), 2, 1, 0; (13009), 3, 1, 0; (18136), 6, 1, 0; (19218), 1, 1, 0; (19966), 3, 1, 0; (23167), 2, 1, 0; (24843), 6, 1, 0; (32963), 4, 1, 0; (36443), 2, 1, 0; (46880), 2, 1, 0; (50730), 3, 1, 0; (52417), 5, 1, 0; (82527), 3, 1, 0; (83395), 6, 1, 0; (107379), 6, 1, 0; (112370), 4, 1, 0; (135929), 2, 1, 0; (242466), 4, 1, 0; (243045), 2, 1, 0; (244272), 2, 1, 0; (244719), 3, 1, 0; (245895), 3, 1, 0; (246153), 5, 2, 2; (248905), 2, 1, 0; (249094), 2, 1, 0; (249150), 2, 1, 0; (254701), 3, 2, 2; (277744), 2, 1, 0; (283727), 4, 1, 0; (285683), 4, 1, 0; (286553), 10, 1, 0; (286623), 4, 1, 0; (287616), 6, 2, 2; (288310), 3, 1, 0; (288635), 6, 1, 0; (288827), 4, 1, 0; (289836), 2, 1, 0; (291487), 3, 1, 0; (293042), 8, 2, 2; (296014), 5, 2, 2; (296086), 2, 1, 0; (296221), 4, 2, 2; (296375), 3, 1, 0; (439641), 2, 1, 0; *[173, 50, 0∗, 2006/09/25–2015/03/17]*

157 Frasso Sabino

R. Haver, Via dei Giornalisti 64, I-00135 Rome, Italy [me3540@mclink.it]

0.37-m f/6.85 Cassegrain + CCD
UCAC-4

1988 NE, 3, 1, 0; 2000 TG_2, 2, 1, 0; 2006 AW, 3, 1, 0; 2007 HV_{92}, 3, 1, 0; 2009 SK_1, 3, 1, 0; 2012 CY_{52}, 2, 1, 0; 2012 OD_1, 3, 1, 0; 2012 TM_{139}, 5, 1, 0; 2015 GD, 7, 2, 4; 2015 JH_1, 2, 1, 0; 2015 KP_{121}, 12, 4, 35; 2015 LG_2, 3, 1, 0; 2015 LX_{28}, 2, 1, 0; 2015 MX_{53}, 2, 1, 0; 2015 MF_{95}, 9, 3, 37; 2015 NF, 2, 1, 0; 2015 NK_{13}, 4, 2, 4; 2015 NZ_{13}, 2, 1, 0; 2015 NB_{14}, 2, 1, 0; 2015 OS, 2, 1, 0; 2015 PC, 2, 1, 0; 2015 PT, 4, 1, 0; 2015 PU_{228}, 2, 1, 0; 2015 PD_{229}, 2, 1, 0; 2015 QB, 2, 1, 0; 2015 QG, 2, 1, 0; (2499), 4, 1, 0; (45866), 4, 1, 0; (55530), 2, 1, 0; (66122), 3, 1, 0; (76116), 3, 1, 0; (86100), 2, 1, 0; (90562), 4, 1, 0; (94862), 3, 1, 0; (95122), 3, 1, 0; (114465), 2, 1, 0; (124371), 3, 1, 0; (127062), 3, 1, 0; (131728), 2, 1, 0; (136824), 6, 1, 0; (194162), 3, 1, 0; (206469), 2, 1, 0; (207652), 6, 1, 0; (234759), 2, 1, 0; (243774), 2, 1, 0; (259286), 2, 1, 0; (304239), 3, 1, 0; (338172), 4, 2, 20; (350443), 2, 1, 0; (390867), 2, 1, 0; (401183), 2, 1, 0; *[161, 51, 0∗, 2015/07/07–2015/08/22]*

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

2002 RN_{183}, 3, 1, 0; 2004 MW_2, 21, 7, 8; 2006 AW, 21, 7, 31; 2010 NY_{65}, 24, 8, 9; 2010 PR_{66}, 12, 4, 14; 2011 OL_5, 2, 1, 0; 2011 YC_{29}, 9, 3, 3; 2012 NP, 15, 5, 15; 2012 OD_1, 6, 2, 1; 2012 TM_{139}, 15, 5, 19; 2015 GD, 9, 3, 6; 2015 HM_{10}, 9, 3, 2; 2015 JY_1, 30, 10, 17; 2015 LG_2, 3, 1, 0; 2015 MP_1, 26, 9, 16; 2015 MN_{116}, 8, 2, 1; 2015 MO_{116}, 5, 1, 0; 2015 NF, 14, 4, 7; 2015 NS_{13}, 6, 2, 6; 2015 NZ_{13}, 6, 2, 12; 2015 NA_{14}, 12, 4, 12; 2015 NB_{14}, 3, 1, 0; 2015 OH, 21, 6, 28; 2015 PV_{228}, 3, 1, 0; 2015 QG, 5, 1, 0; 2015 QK, 5, 1, 0; 2015 QN_3, 6, 2, 6; (1036), 9, 3, 46; (1620), 6, 2, 6; (2671), 3, 1, 0; (3752), 6, 2, 14; (3753), 3, 1, 0; (4055), 3, 1, 0; (7822), 3, 1, 0; (7889), 60, 20, 46; (11405), 6, 2, 18; (14222), 57, 19, 59; (16960), 3, 1, 0; (23187), 6, 2, 6; (54789), 54, 18, 40; (63896), 3, 1, 0; (66008), 8, 3, 8; (66146), 6, 2, 37; (85989), 36, 12, 20; (86666), 9, 3, 12; (88710), 6, 2, 1; (104576), 3, 1, 0; (148377), 3, 1, 0; (152679), 51, 17, 59; (155334), 9, 3, 15; (159504), 6, 2, 2; (163760), 3, 1, 0; (190161), 13, 5, 24; (206378), 3, 1, 0; (237805), 5, 2, 1; (241596), 24, 8, 9; (242191), 17, 6, 5; (281375), 3, 1, 0; (293054), 24, 8, 15; (294739), 48, 16, 56; (348400), 48, 16, 23; (369984), 12, 4, 14; (380981), 6, 2, 1; (385186), 15, 5, 11; (425450), 27, 9, 9; (434154), 8, 3, 3; (438429), 45, 15, 45; *[959, 67, 0∗, 2015/06/27–2015/08/26]*

162 Potenza
A. M. Giambersio, 22 R. Scotellaro Street, I-85100 Potenza, Italy [agiamber@tin.it]
0.28-m f/6.3 reflector + CCD
UCAC-4
(858), 2, 1, 0; *[2, 1, 0∗, 2015/08/17]*

168 Kourovskaya
G. S. Romashin, Kourovskaya Astronomical Observatory, Sloboda, Pervouralskij region, 623072 Sverdlovsk Oblast, Russia [edkuz@astro.urgu.e-burg.su]
Observers P. Skripnichenko, T. Galushina
Measurer N. Kazantcev
0.40-m f/0.78 Schmidt + CCD
UCAC-2
(2063), 6, 1, 0; *[6, 1, 0∗, 2015/05/02]*

169 Airali Observatory
S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy [starfield@tin.it]
0.25-m Schmidt-Cassegrain + CCD
UCAC-2
(32), 5, 1, 0; (276), 4, 1, 0; (323), 5, 1, 0; (392), 5, 1, 0; (667), 6, 1, 0; (771), 5, 1, 0; (873), 5, 1, 0; (889), 4, 1, 0; (1166), 5, 1, 0; (1247), 10, 1, 0; (1309), 5, 1, 0; (1419), 4, 2, 14; (1605), 5, 1, 0; (1734), 3, 1, 0; (2199), 5, 1, 0; (134340), 10, 1, 0; *[86, 16, 0∗, 2015/07/01–2015/08/03]*

198 Wildberg
R. Apitzsch, Schwarzwaldstrasse 17-2, D-72218 Wildberg, Germany [astrowild@astro-wildberg.de]
0.35-m f/3.1 reflector + CCD
USNO-B1.0

2007 BG_{79}, 15, 2, 1; 2008 TV_{26}, 20, 3, 2; 2008 US_{130}, 11, 2, 2; 2014 DO_{115}, 5, 1, 0; 2014 YN_{25}, 1, 1, 0; 2015 KM_{161} ∗, 10, 2, 3; 2015 OO_5, 16, 2, 4; 2015 OT_{26} ∗, 9, 2, 4; 2015 OP_{40}, 18, 2, 1; 2015 PT_{30}, 24, 3, 4; 2015 QG_4 ∗, 21, 3, 4; 2015 QJ_4 ∗, 19, 3, 4; 2015 QR_8 ∗, 19, 3, 2; 2015 QL_9 ∗, 17, 2, 1; (35012), 3, 1, 0; (37415), 5, 1, 0; (55281), 7, 1, 0; (64449), 7, 1, 0; (70925), 3, 1, 0; (81298), 5, 1, 0; (81500), 3, 1, 0; (92545), 5, 1, 0; (93911), 5, 1, 0; (96443), 5, 1, 0; (97866), 5, 1, 0; (106218), 5, 1, 0; (114112), 3, 1, 0; (119877), 5, 1, 0; (129937), 7, 1, 0; (132479), 3, 1, 0; (168329), 3, 1, 0; (175738), 5, 1, 0; (180112), 5, 1, 0; (180597), 7, 2, 2; (184523), 3, 1, 0; (186251), 5, 1, 0; (197879), 11, 2, 2; (201993), 7, 1, 0; (204682), 7, 1, 0; (208135), 8, 1, 0; (231485), 6, 2, 2; (235567), 4, 1, 0; (242223), 5, 1, 0; (244448), 5, 1, 0; (260322), 3, 1, 0; (275320), 3, 1, 0; (288847), 3, 1, 0; (293114), 4, 1, 0; (294180), 4, 1, 0; (299008), 3, 1, 0; (305831), 4, 1, 0; (355139), 3, 1, 0; (358133), 4, 1, 0; (361290), 7, 2, 2; (394447), 7, 2, 2; (395487), 7, 1, 0; (400955), 4, 1, 0; *[418, 57, 6∗, 2014/12/23–2015/08/23]*

203 GiaGa Observatory
G. Galli, via Mozart 4, Pogliano Milanese (MI), Italy [gllgianni@alice.it]
Observers S. Foglia, G. Galli
0.28-m f/6.8 Schmidt-Cassegrain + CCD
UCAC-4

2004 MW_2, 2, 1, 0; 2008 VD_{64}, 2, 1, 0; 2010 NY_{65}, 2, 1, 0; 2010 PR_{66}, 2, 1, 0; 2012 TM_{139}, 2, 1, 0; 2015 LB_{40}, 2, 1, 0; 2015 MF_{95}, 2, 1, 0; 2015 MX_{103}, 2, 1, 0; 2015 NA_{14}, 4, 2, 2; 2015 NB_{14}, 2, 1, 0; 2015 OF_{26}, 2, 1, 0; 2015 QJ, 2, 1, 0; 2015 QN_3, 2, 1, 0; 2015 QO_3, 2, 1, 0; (106489), 2, 1, 0; (294739), 2, 1, 0; *[34, 16, 0∗, 2015/06/30–2015/08/20]*

204 Schiaparelli Observatory
F. Bellini, via A. del Sarto 3, I-21100 Varese, Italy [lucabuzzi.204@gmail.com]
Observer L. Buzzi
0.60-m f/4.64 reflector + CCD
PPMXL, UCAC-4

2004 MW_2, 2, 1, 0; 2007 WU_3, 3, 1, 0; 2008 EJ, 3, 1, 0; 2010 JE_{87}, 3, 1, 0; 2010 NY_{65}, 3, 1, 0; 2010 PR_{66}, 5, 1, 0; 2010 XC_{24}, 3, 1, 0; 2011 GQ_{61}, 2, 1, 0; 2011 NP, 3, 1, 0; 2011 YC_{29}, 2, 1, 0; 2012 NP, 3, 1, 0; 2012 TM_{139}, 4, 1, 0; 2014 QK_{362}, 2, 1, 0; 2015 EO, 3, 1, 0; 2015 EP, 4, 1, 0; 2015 GD, 4, 1, 0; 2015 HM_{10}, 5, 1, 0; 2015 JY_1, 3, 1, 0; 2015 JH_2, 3, 1, 0; 2015 JJ_2, 3, 1, 0; 2015 KL_{122}, 3, 1, 0; 2015 KQ_{154}, 3, 1, 0; 2015 LJ, 2, 1, 0; 2015 LG_2, 3, 1, 0; 2015 LG_{21}, 3, 1, 0; 2015 MP_1, 7, 2, 11; 2015 MB_{59}, 2, 1, 0; 2015 MU_{59}, 2, 1, 0; 2015 MF_{95}, 2, 1, 0; 2015 MT_{96}, 3, 1, 0; 2015 MN_{116}, 3, 1, 0; 2015 MQ_{116}, 2, 1, 0; 2015 ML_{130}, 2, 1, 0; 2015 NF, 3, 1, 0; 2015 NR_2, 2, 1, 0; 2015 NU_2, 4, 1, 0; 2015 ND_3, 2, 1, 0; 2015 NJ_3, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 OH, 5, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OH_{22}, 3, 1, 0; 2015 OA_{26}, 4, 1, 0; 2015 OS_{35}, 3, 1, 0; 2015 QJ, 3, 1, 0; 2015 QK, 5, 1, 0; 2015 QJ_3, 3, 1, 0; 2015 QN_3, 5, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QT_3, 5, 1, 0; (1338), 3, 1, 0; (22028), 3, 1, 0; (23477), 3, 1, 0; (25035), 3, 1, 0; (25747), 3, 1, 0; (96915), 3, 1, 0; (134340), 3, 1, 0; (155915), 2, 1, 0; (250677), 2, 1, 0; (297825), 2, 1, 0; *[189, 61, 0∗, 2015/03/11–2015/08/26]*

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∗, 2015/08/12]*

238 Grorudalen Optical Observatory
O. Trondal, Hogtunv. 2B, Oslo, Norway [otrondal@online.no]
0.61-m Cassegrain + CCD
UCAC-2, GSC
(4055), 3, 1, 0; (4674), 2, 1, 0; (18582), 3, 1, 0; (78060), 3, 1, 0; (85989), 4, 1, 0; (86666), 4, 1, 0; (87091), 14, 3, 21; (101679), 10, 1, 0; (190349), 4, 1, 0; *[47, 9, 0∗, 2015/07/15–2015/08/24]*

250 Hubble Space Telescope
M. McMaster, Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218, U.S.A. [mcmaster@stsci.edu]
Observer K. S. Noll
Measurer S. D. Benecchi
2.4-m reflector + CCD
GSC-2.3
(15810), 8, 1, 0; *[8, 1, 0∗, 2002/10/03]*

290 Mt. Graham
R. P. Boyle, Vatican Observatory Research Group, Steward Observatory, Tucson, AZ 85721, U.S.A. [rpboyle@mac.com] (5)
2010 VD_{53}, 5, 1, 0; 2014 SL_{20}, 6, 2, 1; *[11, 2, 0∗, 2012/01/05–2012/02/27]*

291 LPL/Spacewatch II
R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu]
Observers T. H. Bressi, J. V. Scotti, A. F. Tubbiolo, R. S. McMillan, R. A. Mastaler
1.8-m f/2.7 reflector + CCD
USNO-B1.0
2001 OQ_{78}, 3, 1, 0; 2003 SR_{428}, 3, 1, 0; 2004 BF_{45}, 2, 1, 0; 2004 MO_3, 3, 1, 0; 2004 PJ_{87}, 3, 1, 0; 2004 RL_{42}, 3, 1, 0; 2005 NZ_{104}, 3, 1, 0; 2005 SE_{71}, 3, 1, 0; 2005 SD_{188}, 3, 1, 0; 2006 BS_{182}, 3, 1, 0; 2006 QS_{23}, 3, 1, 0; 2006 SS_{147}, 3, 1, 0; 2007 DF_{45}, 3, 1, 0; 2007 RU_9, 3, 1, 0; 2007 RV_9, 3, 1, 0; 2007 WU_3, 3, 1, 0; 2008 QV_{11}, 3, 1, 0; 2008 QP_{15}, 3, 1, 0; 2008 SA_{301}, 3, 1, 0; 2009 BH_{59}, 3, 1, 0; 2009 JR_5, 3, 1, 0; 2010 EJ_{101}, 3, 1, 0; 2010 JG_{78}, 3, 1, 0; 2010 LT_{108}, 3, 1, 0; 2010 PR_{66}, 3, 1, 0; 2010 UL_{75}, 3, 1, 0; 2011 BS_{10}, 3, 1, 0; 2011 OL_{59}, 3, 1, 0; 2011 QK_{97}, 3, 1, 0; 2011 SX_{61}, 3, 1, 0; 2011 UA_{270}, 3, 1, 0; 2011 YS_{39}, 2, 1, 0; 2012 AN_{14}, 3, 1, 0; 2012 CN_{41}, 3, 1, 0; 2012 OD_1, 3, 1, 0; 2012 OP_4, 3, 1, 0; 2012 TU_{206}, 3, 1, 0; 2012 TE_{288}, 3, 1, 0; 2012 UW_{18}, 3, 1, 0; 2012 UC_{150}, 3, 1, 0; 2013 AR_{90}, 3, 1, 0; 2013 AW_{160}, 3, 1, 0; 2013 DE_8, 3, 1, 0; 2013 EW_{56}, 3, 1, 0; 2013 PE_{26}, 3, 1, 0; 2013 RN_{77}, 3, 1, 0; 2013 ST_{20}, 3, 1, 0; 2014 GN_7, 3, 1, 0; 2014 HY_{39}, 3, 1, 0; 2014 HF_{59}, 3, 1, 0; 2014 JF_{22}, 3, 1, 0; 2014 JE_{35}, 9, 3, 2359; 2014 JA_{71}, 3, 1, 0; 2014 KK_{20}, 3, 1, 0; 2014 KA_{31}, 3, 1, 0; 2014 MR_{15}, 3, 1, 0; 2014 QK_{362}, 3, 1, 0; 2014 UZ_{18}, 3, 1, 0; 2014 UV_{26}, 3, 1, 0; 2014 UN_{31}, 3, 1, 0; 2014 UQ_{43}, 3, 1, 0; 2014 UB_{69}, 6, 2, 33; 2014 UP_{69}, 3, 1, 0; 2014 UX_{83}, 3, 1, 0; 2014 UV_{95}, 3, 1, 0; 2014 UV_{130}, 3, 1, 0; 2014 UX_{185}, 3, 1, 0; 2014 UN_{214}, 3, 1, 0; 2014 VD_3, 3, 1, 0; 2014 VG_{15}, 3, 1, 0; 2014 VV_{16}, 3, 1, 0; 2014 VZ_{16}, 3, 1, 0; 2014 VK_{27}, 3, 1, 0; 2014 VQ_{27}, 3, 1, 0; 2014 VQ_{33}, 3, 1, 0; 2014 WF_{25}, 3, 1, 0; 2014 WZ_{36}, 6, 1, 0; 2014 WQ_{61}, 3, 1, 0; 2014 WY_{63}, 6, 2, 2458; 2014 WA_{65}, 3, 1, 0; 2014 WF_{87}, 3, 1, 0; 2014 WO_{98}, 3, 1, 0; 2014 WY_{104}, 3, 1, 0; 2014 WH_{107}, 3, 1, 0; 2014 WT_{108}, 3, 1, 0; 2014 WT_{136}, 3, 1, 0; 2014 WU_{163}, 3, 1, 0; 2014 WF_{168}, 3, 1, 0; 2014 WW_{169}, 3, 1, 0; 2014 WM_{188}, 3, 1, 0; 2014 WZ_{198}, 3, 1, 0; 2014 WX_{219}, 3, 1, 0; 2014 WB_{224}, 3, 1, 0; 2014 WP_{237}, 3, 1, 0; 2014 WV_{259}, 3, 1, 0; 2014 WK_{262}, 12, 4, 919; 2014 WK_{290}, 6, 2, 476; 2014 WD_{297}, 3, 1, 0; 2014 WD_{302}, 3, 1, 0; 2014 WP_{310}, 3, 1, 0; 2014 WN_{320}, 3, 1, 0; 2014 WB_{357}, 3, 1, 0; 2014 WM_{382}, 6, 2, 2136; 2014 WL_{402}, 3, 1, 0; 2014 WT_{455}, 3, 1, 0; 2014 WO_{460}, 3, 1, 0; 2014 WX_{473}, 3, 1, 0; 2014 WW_{490}, 6, 2, 2898; 2014 WX_{490}, 3, 1, 0; 2014 WE_{503}, 3, 1, 0; 2014 WF_{503}, 3, 1, 0; 2014 XM_{14}, 3, 1, 0; 2014 XX_{27}, 3, 1, 0; 2014 XL_{31}, 6, 2, 1811; 2014 YB_{11}, 3, 1, 0; 2014 YM_{11}, 3, 1, 0; 2014 YB_{15}, 3, 1, 0; 2014 YR_{20}, 3, 1, 0; 2014 YG_{24}, 3, 1, 0; 2014 YN_{25}, 3, 1, 0; 2014 YO_{26}, 3, 1, 0; 2014 YF_{29}, 3, 1, 0; 2015 AW_{34}, 3, 1, 0; 2015 AL_{214}, 6, 2, 1027; 2015 AO_{245}, 3, 1, 0; 2015 BP_{16}, 3, 1, 0; 2015 BL_{27}, 3, 1, 0; 2015 BV_{45}, 3, 1, 0; 2015 BG_{59}, 3, 1, 0; 2015 BL_{61}, 3, 1, 0; 2015 BK_{70}, 3, 1, 0; 2015 BY_{78}, 3, 1, 0; 2015 BR_{169}, 3, 1, 0; 2015 BX_{401}, 3, 1, 0; 2015 CV_{13}, 5, 2, 13; 2015 CU_{58}, 3, 1, 0; 2015 DY_{25}, 9, 2, 16; 2015 DQ_{99}, 3, 1, 0; 2015 DE_{107}, 3, 1, 0; 2015 DQ_{113}, 3, 1, 0; 2015 DR_{148}, 3, 1, 0; 2015 DP_{155}, 3, 1, 0; 2015 DU_{219}, 3, 1, 0; 2015 DZ_{222}, 3, 1, 0; 2015 EK_7, 5, 2, 41; 2015 FJ_6, 3, 1, 0; 2015 FC_{35}, 3, 1, 0; 2015 FF_{35}, 2, 1, 0; 2015 FG_{37}, 3, 1, 0; 2015 FB_{39}, 3, 1, 0; 2015 FR_{81}, 3, 1, 0; 2015 FT_{118}, 2, 1, 0; 2015 FE_{122}, 3, 1, 0; 2015 FC_{157}, 3, 1, 0; 2015 FU_{223}, 3, 1, 0; 2015 FO_{264}, 3, 1, 0; 2015 FN_{285}, 6, 2, 1026; 2015 FE_{293}, 3, 1, 0; 2015 FT_{308}, 3, 1, 0; 2015 FS_{332}, 2, 1, 0; 2015 FK_{341}, 3, 1, 0; 2015 GS_9, 3, 1, 0; 2015 GS_{13}, 3, 1, 0; 2015 GM_{34}, 3, 1, 0; 2015 GK_{50}, 6, 2, 4; 2015 HM_{10}, 3, 1, 0; 2015 HV_{14}, 3, 1, 0; 2015 HJ_{60}, 3, 1, 0; 2015 HB_{117}, 3, 1, 0; 2015 HU_{123}, 3, 1, 0; 2015 JA, 3, 1, 0; 2015 JJ, 3, 1, 0; 2015 JD_1, 3, 1, 0; 2015 JA_2, 2, 1, 0; 2015 KL_6, 3, 1, 0; 2015 KO_{15}, 3, 1, 0; 2015 KR_{18}, 3, 1, 0; 2015 KB_{19}, 3, 1, 0; 2015 KO_{24}, 3, 1, 0; 2015 KY_{36}, 3, 1, 0; 2015 KW_{55}, 3, 1, 0; 2015 KK_{90}, 3, 1, 0; 2015 KO_{90}, 3, 1, 0; 2015 KL_{120}, 3, 1, 0; 2015 KK_{122}, 3, 1, 0; 2015 KO_{132}, 3, 1, 0; 2015 KG_{145}, 3, 1, 0; 2015 KH_{157}, 3, 1, 0; 2015 KL_{157}, 3, 1, 0; 2015 LE_{21}, 3, 1, 0; 2015 LK_{21}, 3, 1, 0; 2015 LL_{23}, 3, 1, 0; 2015 LP_{24}, 3, 1, 0; 2015 LH_{30}, 6, 1, 0; 2015 LJ_{33}, 3, 1, 0; 2015 LC_{34}, 3, 1, 0; 2015 LU_{34}, 3, 1, 0; 2015 MP_1, 3, 1, 0; 2015 MZ_1, 3, 1, 0; 2015 MF_2, 3, 1, 0; 2015 MG_8, 3, 1, 0; 2015 MO_9, 3, 1, 0; 2015 MV_9, 6, 2, 2866; 2015 MW_{10}, 3, 1, 0; 2015 MD_{15}, 6, 1, 0; 2015 MQ_{36}, 3, 1, 0; 2015 MF_{38}, 6, 2, 10; 2015 MO_{44}, 2, 1, 0; 2015 MM_{45}, 3, 1, 0; 2015 MS_{45}, 3, 1, 0; 2015 MV_{53}, 6, 2, 5; 2015 MX_{53}, 3, 1, 0; 2015 MY_{53}, 3, 1, 0; 2015 MF_{55}, 3, 1, 0; 2015 MQ_{57}, 3, 1, 0; 2015 MY_{58}, 3, 1, 0; 2015 MK_{59}, 3, 1, 0; 2015 MF_{60}, 2, 1, 0; 2015 MP_{60}, 3, 1, 0; 2015 MX_{60}, 3, 1, 0; 2015 MZ_{62}, 3, 1, 0; 2015 MX_{65}, 3, 1, 0; 2015 ML_{66}, 3, 1, 0; 2015 MH_{67}, 3, 1, 0; 2015 MR_{67}, 3, 1, 0; 2015 MJ_{69}, 6, 2, 31; 2015 MM_{72}, 3, 1, 0; 2015 ME_{74}, 3, 1, 0; 2015 MJ_{76}, 3, 1, 0; 2015 ME_{79}, 3, 1, 0; 2015 MH_{80}, 3, 1, 0; 2015 MT_{81}, 6, 2, 3253; 2015 MG_{84}, 3, 1, 0; 2015 ME_{85}, 3, 1, 0; 2015 MZ_{85}, 3, 1, 0; 2015 MW_{91}, 6, 2, 935; 2015 MT_{96}, 6, 2, 1; 2015 MR_{101}, 7, 3, 41; 2015 MG_{103}, 3, 1, 0; 2015 MB_{104}, 3, 1, 0; 2015 MO_{106}, 3, 1, 0; 2015 MD_{110}, 3, 1, 0; 2015 MQ_{111}, 3, 1, 0; 2015 MX_{112}, 3, 1, 0; 2015 MM_{116}, 9, 3, 49; 2015 MN_{116}, 9, 3, 17; 2015 MP_{116}, 2, 1, 0; 2015 MQ_{116}, 6, 2, 1; 2015 MA_{118}, 6, 2, 73; 2015 MN_{122}, 3, 1, 0; 2015 MD_{130}, 6, 2, 7; 2015 MF_{130}, 3, 1, 0; 2015 MG_{130}, 3, 1, 0; 2015 MH_{130}, 2, 1, 0; 2015 MJ_{130}, 2, 1, 0; 2015 MK_{130}, 5, 2, 1; 2015 ML_{130}, 8, 3, 9; 2015 MP_{130}, 3, 1, 0; 2015 MS_{130}, 3, 1, 0; 2015 MT_{130}, 3, 1, 0; 2015 MU_{130}, 4, 1, 0; 2015 MX_{130}, 3, 1, 0; 2015 MY_{130}, 3, 1, 0; 2015 MD_{131}, 3, 1, 0; 2015 NF, 6, 2, 2; 2015 NJ, 2, 1, 0; 2015 NK, 6, 2, 1; 2015 NQ_2, 3, 1, 0; 2015 NR_2, 3, 1, 0; 2015 NS_2, 3, 1, 0; 2015 NT_2, 3, 1, 0; 2015 NU_2, 8, 3, 40; 2015 NW_2, 4, 2, 1; 2015 NX_2, 5, 2, 1; 2015 NY_2, 6, 2, 1; 2015 NZ_2, 3, 1, 0; 2015 NA_3, 2, 1, 0; 2015 ND_3, 5, 2, 1; 2015 NE_3, 3, 1, 0; 2015 NG_3, 5, 2, 1; 2015 NK_3, 5, 2, 3; 2015 NL_3, 3, 1, 0; 2015 NM_3, 2, 1, 0; 2015 NZ_3, 6, 2, 1501; 2015 NO_4, 3, 1, 0; 2015 NM_7, 3, 1, 0; 2015 NW_9, 3, 1, 0; 2015 NA_{10}, 3, 1, 0; 2015 NG_{12}, 3, 1, 0; 2015 NT_{12}, 3, 1, 0; 2015 NE_{13}, 2, 1, 0; 2015 NF_{13}, 3, 1, 0; 2015 NK_{13}, 15, 5, 37; 2015 NM_{13}, 3, 1, 0; 2015 NP_{13}, 6, 2, 7; 2015 NR_{13}, 3, 1, 0; 2015 NS_{13}, 6, 2, 1; 2015 NU_{13}, 6, 2, 6; 2015 NV_{13}, 6, 2, 34; 2015 NY_{13}, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NC_{18}, 3, 1, 0; 2015 NR_{22}, 3, 1, 0; 2015 NR_{23}, 3, 1, 0; 2015 NG_{24}, 3, 1, 0; 2015 NH_{24}, 3, 1, 0; 2015 NK_{24}, 3, 1, 0; 2015 ON, 5, 2, 1; 2015 OT, 3, 1, 0; 2015 OV, 6, 2, 29; 2015 OZ_2, 3, 1, 0; 2015 OK_7, 3, 1, 0; 2015 OY_{11}, 3, 1, 0; 2015 OH_{13}, 3, 1, 0; 2015 OE_{14}, 3, 1, 0; 2015 OJ_{15}, 3, 1, 0; 2015 OG_{18}, 6, 2, 873; 2015 OO_{21}, 3, 1, 0; 2015 OQ_{21}, 3, 1, 0; 2015 OU_{21}, 2, 1, 0; 2015 OV_{21}, 2, 1, 0; 2015 OW_{21}, 3, 1, 0; 2015 OC_{22}, 3, 1, 0; 2015 OD_{22}, 5, 2, 28; 2015 OY_{24}, 3, 1, 0; 2015 OP_{25}, 3, 1, 0; 2015 OA_{31}, 3, 1, 0; 2015 OQ_{35}, 2, 1, 0; 2015 OZ_{36}, 3, 1, 0; 2015 OE_{45}, 3, 1, 0; 2015 OF_{65}, 2, 1, 0; 2015 OL_{66}, 6, 1, 0; 2015 OC_{67}, 3, 1, 0; 2015 OF_{67}, 6, 2, 1474; 2015 OL_{74}, 3, 1, 0; 2015 OD_{76}, 12, 3, 2; 2015 OT_{78}, 3, 1, 0; 2015 OA_{79}, 3, 1, 0; 2015 OB_{79}, 3, 1, 0; 2015 OD_{79}, 3, 1, 0; 2015 OQ_{79}, 2, 1, 0; 2015 OT_{79}, 3, 1, 0; 2015 PM, 3, 1, 0; 2015 PT_2, 3, 1, 0; 2015 PG_3, 3, 1, 0; 2015 PS_3, 3, 1, 0; 2015 PU_{12}, 3, 1, 0; 2015 PA_{37}, 3, 1, 0; 2015 PV_{37}, 3, 1, 0; 2015 PH_{39}, 3, 1, 0; 2015 PH_{47}, 3, 1, 0; 2015 PP_{56}, 3, 1, 0; 2015 PR_{56}, 12, 4, 5; 2015 PS_{56}, 3, 1, 0; 2015 PV_{56}, 3, 1, 0; 2015 PA_{57}, 6, 2, 1; 2015 PC_{57}, 3, 1, 0; 2015 PE_{57}, 3, 1, 0; 2015 PJ_{57}, 3, 1, 0; 2015 PK_{57}, 6, 2, 5; 2015 PL_{57}, 5, 2, 7; 2015 PN_{57}, 6, 2, 7; 2015 PT_{57}, 3, 1, 0; 2015 PQ_{227}, 3, 1, 0; 2015 PS_{227}, 6, 2, 1; 2015 PU_{227}, 3, 1, 0; 2015 PV_{227}, 2, 1, 0; 2015 PC_{228}, 3, 1, 0; 2015 PE_{228}, 3, 1, 0; 2015 PL_{228}, 3, 1, 0; 2015 PM_{228}, 3, 1, 0; 2015 PP_{228}, 2, 1, 0; 2015 PQ_{228}, 3, 1, 0; 2015 PR_{228}, 6, 2, 2; 2015 PS_{228}, 5, 2, 2; 2015 PU_{228}, 12, 4, 9; 2015 PX_{228}, 3, 1, 0; 2015 PY_{228}, 2, 1, 0; 2015 PB_{229}, 3, 1, 0; 2015 PC_{229}, 3, 1, 0; 2015 PF_{229}, 3, 1, 0; 2015 PL_{229}, 3, 1, 0; 2015 PB_{286}, 3, 1, 0; 2015 PO_{291}, 6, 2, 5; 2015 PU_{291}, 3, 1, 0; 2015 PM_{303}, 3, 1, 0; 2015 PD_{304}, 3, 1, 0; 2015 PM_{307}, 3, 1, 0; 2015 PK_{311}, 2, 1, 0; 2015 QD, 3, 1, 0; 2015 QE, 3, 1, 0; 2015 QF, 3, 1, 0; 2015 QH, 6, 2, 2; 2015 QJ_3, 3, 1, 0; 2015 QM_3, 2, 1, 0; 2015 QQ_3, 3, 1, 0; 2015 QT_3, 9, 3, 2; 2015 QU_8, 6, 2, 1; 2015 QW_8, 6, 2, 4; 2015 QX_8, 3, 1, 0; 2015 QY_8, 6, 2, 4; 2015 QE_9, 3, 1, 0; 2015 QF_9, 5, 2, 1; 2015 QH_9, 3, 1, 0; 2015 QQ_9, 3, 1, 0; (58534), 1, 1, 0; (297371), 3, 1, 0; (407338), 6, 2, 1; (439757), 3, 1, 0; (439816), 3, 1, 0; (439824), 3, 1, 0; *[1459, 411, 0∗, 2001/05/24–2015/08/27]*

300 Bisei Spaceguard Center–BATTeRS
S. Nakano, Japan Spaceguard Association, 60-7 2F, Sasazuka 1 Chome, Shibuya-Ku, 151-0073 Tokyo, Japan [batters@spaceguard.or.jp]
Observers S. Okumura, T. Nimura, K. Nishiyama, N. Hashimoto, A. Asami, S. Urakawa
1.0-m f/3.0 reflector + CCD
GSC-ACT, UCAC-2, USNO-B1.0
2007 DV_{89}, 4, 1, 0; 2011 SL_{249}, 4, 1, 0; 2014 UH_{13}, 3, 1, 0; 2015 BO_{15}, 4, 1, 0; 2015 DK_{146}, 8, 1, 0; 2015 EP_{33}, 4, 1, 0; 2015 FH_{102}, 4, 1, 0; 2015 MN_{76}, 5, 1, 0; 2015 NA_{14}, 5, 1, 0; 2015 NM_{16}, 5, 1, 0; 2015 OH, 12, 2, 1; 2015 OS, 3, 1, 0; 2015 OK_{26}, 6, 1, 0; 2015 OZ_{78}, 3, 1, 0; 2015 PG, 3, 1, 0; 2015 PR, 5, 1, 0; 2015 PT, 11, 2, 1; 2015 PU_{228}, 3, 1, 0; 2015 QB, 4, 1, 0; 2015 QS_8, 5, 1, 0; 2015 QZ_8, 5, 1, 0; 2015 QA_9, 5, 1, 0; 2015 QB_9, 6, 1, 0; 2015 QD_9, 3, 1, 0; (206378), 5, 1, 0; *[125, 25, 0∗, 2007/11/09–2015/08/22]*

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O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [ovidiu.vaduvescu@gmail.com]
Observers P. L. Schechter, S. S. Sheppard, O. Vaduvescu
Clay 6.5-m telescope + CCD, 1.02-m $f/10.0$ Ritchey-Chrétien + CCD
USNO-B1.0

2015 OO_{68}, 6, 1, 0; *[6, 1, 0∗, 2008/10/22]*

309 Cerro Paranal

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M. Altman, Astronomisches Recheninstitut der Universität Heidelberg, Moenchhofstr. 12-14,D-69120 Heidelberg, Germany [maltmann@ari.uni-heidelberg.de] (16)
Observers O. Hainaut, D. Koschny, M. Micheli, M. Altmann, T. Prusti
Measurers M. Micheli, O. Hainaut, C. Barache, S. Bouquillon, T. Carlucci, F. Taris
8.2-m VLT + CCD, 2.6-m $f/5.5$ Ritchey-Chrétien + CCD
PPMXL

{15} 2008 LG_2, 4, 2, 22; *[4, 1, 0∗, 2015/06/16–2015/07/07]*

{16} 2001 XP_{170}, 7, 1, 0; 2002 AN_{175}, 10, 1, 0; 2002 RF_{270}, 10, 1, 0; 2003 SG_{281}, 9, 1, 0; 2004 TL_{182}, 10, 1, 0; 2005 SU_{43}, 10, 1, 0; 2005 SY_{54}, 10, 1, 0; 2005 SY_{267}, 10, 1, 0; 2005 SB_{285}, 10, 1, 0; 2005 TB_{118}, 10, 1, 0; 2005 UK_{260}, 6, 1, 0; 2005 UE_{311}, 10, 1, 0; 2005 UU_{484}, 10, 1, 0; 2005 WZ_{153}, 6, 1, 0; 2005 WB_{164}, 3, 1, 0; 2006 XB_{70}, 8, 1, 0; 2006 YW_{53}, 7, 1, 0; 2007 EM_{69}, 10, 1, 0; 2007 RN_{30}, 10, 1, 0; 2007 RH_{171}, 5, 1, 0; 2007 RE_{233}, 6, 1, 0; 2007 TZ_{277}, 10, 1, 0; 2007 TC_{441}, 6, 1, 0; 2007 UU_{103}, 10, 1, 0; 2007 VA_{252}, 10, 1, 0; 2007 VY_{307}, 9, 1, 0; 2007 YB_{55}, 9, 1, 0; 2008 AQ_{67}, 8, 1, 0; 2008 CE_{36}, 9, 1, 0; 2008 GT_{50}, 6, 1, 0; 2008 QA_{10}, 10, 1, 0; 2008 RP_{128}, 7, 1, 0; 2008 TJ_{185}, 7, 1, 0; 2008 UL_{45}, 10, 1, 0; 2008 WQ_{51}, 7, 1, 0; 2008 YU_{122}, 10, 1, 0; 2009 WR_{36}, 6, 1, 0; 2010 RL_{158}, 6, 1, 0; 2010 UO_{10}, 9, 1, 0; 2011 FE_{88}, 7, 1, 0; 2011 KP_{44}, 10, 1, 0; 2011 LQ_4, 8, 1, 0; 2011 RL_{10}, 8, 1, 0; 2011 SF_4, 10, 1, 0; 2011 SB_{117}, 10, 1, 0; 2011 TR_1, 10, 1, 0; 2011 UX_{124}, 5, 1, 0; 2011 UE_{167}, 4, 1, 0; 2011 UB_{279}, 8, 1, 0; 2012 FC_{29}, 5, 1, 0; 2012 RM_{18}, 10, 1, 0; 2013 AX_{21}, 4, 1, 0; 2013 AR_{67}, 10, 1, 0; 2013 AU_{96}, 10, 1, 0; 2013 AU_{118}, 5, 1, 0; 2013 BF_{79}, 10, 1, 0; 2013 CA_3, 10, 1, 0; 2013 CJ_{16}, 10, 1, 0; 2013 CS_{103}, 10, 1, 0; 2013 CW_{114}, 8, 1, 0; 2013 CL_{124}, 9, 1, 0; 2013 EK_{16}, 7, 1, 0; 2013 YQ_{95}, 5, 1, 0; 2014 CU_4, 10, 1, 0; 2014 DP_{48}, 9, 1, 0; 2014 ET_{21}, 10, 1, 0; 2014 HU_{86}, 10, 1, 0; 2014 MW_{49}, 10, 1, 0; 2014 WR_{65}, 7, 1, 0; 2015 BD_{60}, 10, 1, 0; 2015 KE_{36}, 7, 1, 0; 2015 KS_{36}, 9, 1, 0; 2015 KT_{36}, 10, 1, 0; 2015 KB_{37}, 8, 1, 0; 2015 LF_{29}, 6, 1, 0; 2015 LV_{35}, 5, 1, 0; 2015 MJ_{52}, 10, 1, 0; 2015 MW_{52}, 7, 1, 0; 2015 MS_{56}, 7, 1, 0; 2015 MF_{63}, 9, 1, 0; 2015 MW_{67}, 9, 1, 0; 2015 MG_{104}, 10, 1, 0; 2015 MK_{104}, 7, 1, 0; 2015 MY_{104}, 10, 1, 0; 2015 MN_{110}, 10, 1, 0; 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1.8-m $f/8$ reflector + CCD
GSC
2015 MC_{100}, 2, 1, 0; *[2, 1, 0*, 2002/03/10]*

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{17} 2015 BP_{119}, 3, 1, 0; 2015 PW_{31}, 3, 1, 0; *[6, 2, 0*, 2007/09/02–2007/09/05]*

{1} 2008 DJ_{87}, 5, 1, 0; *[5, 1, 0*, 2003/04/23]*

446 Kingsnake Observatory, Seguin
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0.45-m $f/4.5$ Newtonian + CCD
UNSO-A2.0, UCAC-2
2015 MY, 3, 1, 0; *[3, 1, 0*, 2005/09/27]*

458 Guadarrama Observatory
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0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
CMC
2015 JY_1, 2, 1, 0; *[2, 1, 0*, 2015/07/06]*

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Measurers K. Sárneczky, S. Kürti
0.60-m Schmidt + CCD
USNO-B1.0
2001 SY_{34}, 4, 1, 0; 2001 SY_{213}, 3, 1, 0; 2002 OZ_{17}, 16, 3, 3; 2002 PV_{191}, 3, 1, 0; 2004 QW_{13}, 7, 2, 2; 2004 RH_{212}, 4, 1, 0; 2005 QG_{76}, 4, 1, 0; 2005 SZ_{57}, 3, 1, 0; 2005 YG_{37}, 8, 1, 0; 2006 BA_{57}, 2, 1, 0; 2008 GA, 2, 1, 0; 2008 VD_{64}, 9, 1, 0; 2009 FW_{53}, 6, 1, 0; 2009 HK_{82}, 5, 2, 1; 2009 WY_{96}, 3, 1, 0; 2010 VG_{202}, 3, 1, 0; 2011 SE_{37}, 7, 2, 5; 2011 VX_7, 2, 1, 0; 2012 XS_4, 12, 2, 1; 2013 AF_{121}, 3, 1, 0; 2014 DJ_{113}, 2, 1, 0; 2014 KA_{31}, 6, 1, 0; 2014 KH_{78}, 6, 2, 2; 2014 SD_{224}, 5, 2, 1; 2014 VP_{15}, 3, 1, 0; 2014 WK_{179}, 7, 1, 0; 2014 WR_{183}, 6, 1, 0; 2014 WM_{423}, 3, 1, 0; 2014 WS_{505}, 3, 1, 0; 2014 YG_{17}, 3, 1, 0; 2015 DZ_{100}, 3, 1, 0; 2015 GB_{33}, 7, 1, 0; 2015 HH_{39}, 3, 1, 0; 2015 KS_{52}, 7, 1, 0; 2015 LM_{30}, 3, 1, 0; 2015 LD_{36}, 3, 1, 0; 2015 MD_6, 3, 1, 0; 2015 MA_{59}, 3, 1, 0; 2015 MR_{103}, 7, 1, 0; 2015 MC_{109}, 6, 1, 0; 2015 MC_{122}, 3, 1, 0; 2015 MH_{130}, 6, 2, 1; 2015 NM_{17}, 8, 1, 0; 2015 OC, 3, 1, 0; 2015 OZ *, 6, 2, 2; 2015 ON_2, 8, 1, 0; 2015 OO_{22} *, 6, 2, 2; 2015 OK_{23}, 2, 1, 0; 2015 OQ_{26} *, 18, 5, 24; 2015 OP_{65}, 12, 2, 5; 2015 ON_{70}, 3, 1, 0; 2015 OZ_{77}, 4, 1, 0; 2015 OC_{78}, 5, 1, 0; 2015 PF, 2, 1, 0; 2015 PM, 5, 2, 1; 2015 PR, 3, 1, 0; 2015 PS, 7, 2, 1; 2015 PT, 26, 3, 2; 2015 PU_2, 4, 1, 0; 2015 PK_9, 20, 1, 0; 2015 PB_{32}, 3, 1, 0; 2015 PD_{62} *, 6, 2, 2; 2015 PE_{62} *, 5, 2, 2; 2015 PN_{227} *, 6, 2, 1; 2015 PW_{280} *, 5, 2, 1; 2015 PX_{280} *, 6, 2, 1; 2015 PZ_{280} *, 6, 2, 1; (373), 7, 2, 1; (605), 3, 1, 0; (683), 3, 1, 0; (1531), 6, 1, 0; (1674), 28, 3, 17; (3682), 6, 2, 1; (4302), 8, 1, 0; (5721), 32, 4, 20; (7091), 6, 1, 0; (7942), 3, 1, 0; (8287), 32, 4, 20; (9021), 6, 1, 0; (11134), 4, 1, 0; (12258), 8, 1, 0; (12347), 11, 2, 2; (12439), 4, 1, 0; (12514), 8, 1, 0; (13043), 12, 2, 3; (13436), 8, 1, 0; (13622), 4, 1, 0; (13938), 12, 1, 0; (14691), 3, 1, 0; (14727), 12, 1, 0; (15785), 16, 2, 5; (16028), 3, 1, 0; (16083), 8, 1, 0; (16775), 24, 3, 17; 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(69983), 3, 1, 0; (70314), 3, 1, 0; (70616), 8, 1, 0; (71300), 12, 2, 5; (71514), 4, 1, 0; (72362), 20, 2, 1; (72803), 3, 1, 0; (75772), 3, 1, 0; (77087), 20, 3, 4; (78111), 4, 1, 0; (78235), 4, 1, 0; (80925), 8, 1, 0; (82601), 3, 1, 0; (84062), 3, 1, 0; (84195), 4, 1, 0; (85084), 8, 1, 0; (85481), 3, 1, 0; (85638), 8, 1, 0; (86281), 8, 1, 0; (86369), 20, 4, 4; (89179), 16, 3, 3; (91550), 8, 1, 0; (92279), 3, 1, 0; (92419), 8, 1, 0; (94334), 6, 1, 0; (95640), 12, 2, 5; (95642), 4, 1, 0; (96807), 8, 1, 0; (97399), 4, 1, 0; (98001), 4, 1, 0; (99929), 8, 2, 1; (99947), 9, 1, 0; (101006), 8, 1, 0; (103485), 3, 1, 0; (104576), 11, 2, 2; (105666), 16, 2, 5; (106254), 4, 1, 0; (109538), 8, 1, 0; (111964), 8, 1, 0; (113845), 3, 1, 0; (118407), 3, 1, 0; (118916), 4, 1, 0; (118928), 20, 3, 3; (121338), 12, 2, 1; (122792), 3, 1, 0; (124348), 4, 1, 0; (124580), 4, 1, 0; (126550), 8, 1, 0; (127514), 9, 2, 1; (127538), 19, 3, 2; (128424), 16, 3, 3; (128435), 3, 1, 0; (129223), 8, 1, 0; (131105), 4, 1, 0; (135026), 8, 1, 0; (135076), 12, 2, 1; (137142), 6, 1, 0; (152004), 12, 2, 4; (155458), 24, 3, 20; (159947), 8, 1, 0; (160826), 8, 1, 0; (163778), 12, 2, 1; (163820), 8, 1, 0; (168717), 6, 1, 0; (170007), 9, 1, 0; (175426), 4, 1, 0; (179594), 9, 1, 0; (179989), 6, 2, 1; (180226), 3, 1, 0; (181554), 4, 1, 0; (184836), 4, 1, 0; (188561), 3, 1, 0; (189812), 3, 1, 0; (193144), 8, 1, 0; (200417), 8, 1, 0; (202054), 4, 1, 0; (215585), 16, 2, 4; (218334), 4, 1, 0; (223386), 3, 1, 0; (223436), 3, 1, 0; (223444), 4, 1, 0; (228285), 9, 2, 1; (230476), 4, 1, 0; (231061), 8, 1, 0; (231499), 4, 1, 0; (232483), 7, 2, 1; (234735), 3, 1, 0; (239536), 6, 1, 0; (241596), 8, 1, 0; (242212), 3, 1, 0; (250542), 11, 2, 2; (253190), 3, 1, 0; (255110), 4, 1, 0; (274137), 11, 2, 2; (275534), 11, 2, 2; (280493), 9, 1, 0; (282466), 6, 2, 1; (282507), 9, 1, 0; (285393), 4, 1, 0; (289825), 4, 1, 0; (291780), 3, 1, 0; (293945), 8, 1, 0; (294725), 3, 1, 0; (294739), 4, 1, 0; (298132), 4, 1, 0; (299191), 4, 1, 0; (301894), 8, 1, 0; (302561), 8, 1, 0; (302801), 3, 1, 0; (304305), 4, 1, 0; (311149), 8, 1, 0; (316203), 28, 3, 19; (335491), 3, 1, 0; (347910), 11, 2, 2; (352236), 4, 1, 0; (352546), 12, 2, 5; (354112), 9, 2, 1; (357885), 8, 1, 0; (391121), 8, 1, 0; (398194), 8, 1, 0; (399920), 7, 2, 1; (403997), 8, 1, 0; *[2066, 271, 9*, 2006/12/28–2015/08/13]*

467 Auckland Observatory
G. W. Christie, Auckland Observatory, P.O. Box 24-180, Royal Oak, Auckland, New Zealand [grant@christie.org.nz]
Observers G. W. Christie, J. K. Drummond, T. Natusch, J. Green, D. Ionescu
0.40-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
(53341), 3, 1, 0; *[3, 1, 0*, 2015/07/10]*

474 Mount John Observatory, Lake Tekapo
A. C. Gilmore, Mt. John University Observatory, P.O. Box 56, NZ-8770 Lake Tekapo, New Zealand [a.gilmore@phys.canterbury.ac.nz]
Observers A. C. Gilmore, P. M. Kilmartin
1.0-m $f/7.7$ reflector + CCD
PPMXL
2002 RB, 3, 1, 0; 2005 SS_{283}, 2, 1, 0; 2006 CU_{10}, 4, 1, 0; 2010 GW_{62}, 2, 1, 0; 2010 PW_{58}, 14, 3, 42; 2011 UT_{95}, 3, 1, 0; 2011 YB_{40}, 10, 2, 2; 2012 DF_{61}, 4, 1, 0; 2013 BW_{76}, 4, 1, 0; 2013 XE_{22}, 8, 2, 1; 2014 JY_{24}, 7, 2, 1; 2015 AP_{43}, 5, 1, 0; 2015 AC_{45}, 3, 1, 0; 2015 BX_{310}, 6, 2, 1; 2015 DV_{180}, 3, 1, 0; 2015 DE_{198}, 4, 1, 0; 2015 EE_7, 3, 1, 0; 2015 FL, 2, 1, 0; 2015 JA_1, 3, 1, 0; 2015 JQ_1, 7, 2, 1; 2015 KJ_{57}, 2, 1, 0; 2015 KW_{156}, 4, 1, 0; 2015 KF_{157}, 7, 2, 43; 2015 LA_2, 4, 1, 0; 2015 LF_{14}, 6, 2, 8; 2015 LC_{21}, 7, 1, 0; 2015 LN_{21}, 5, 1, 0; 2015 LV_{24}, 9, 3, 43; 2015 LU_{38}, 4, 1, 0; 2015 MZ_8, 9, 3, 44; 2015 MN_{44}, 4, 1, 0; 2015 MW_{53}, 9, 2, 9; 2015 MX_{53}, 10, 3, 9; 2015 MY_{53}, 6, 2, 8; 2015 ME_{54}, 4, 1, 0; 2015 MS_{59}, 6, 2, 3; 2015 MT_{59}, 13, 3, 10; 2015 MU_{59}, 3, 1, 0; 2015 MF_{60}, 3, 1, 0; 2015 MN_{66}, 13, 4, 40; 2015 MP_{66}, 9, 3, 43; 2015 MO_{89}, 7, 2, 9; 2015 MF_{95}, 8, 2, 8; 2015 MT_{96}, 11, 3, 44; 2015 MO_{116}, 6, 1, 0; 2015 MQ_{116}, 4, 1, 0; 2015 MK_{130}, 4, 1, 0; 2015 ML_{130}, 4, 1, 0; 2015 NT_2, 6, 2, 42; 2015 ND_3, 17, 4, 3; 2015 NL_3, 4, 1, 0; 2015 NP_{13}, 4, 1, 0; 2015 NU_{13}, 3, 1, 0; 2015 NV_{13}, 2, 1, 0; 2015 NZ_{13}, 5, 1, 0; 2015 NA_{14}, 4, 1, 0; 2015 NB_{14}, 3, 1, 0; 2015 NY_{22}, 4, 1, 0; 2015 OG, 3, 1, 0; 2015 OH, 9, 2, 2; 2015 OK, 3, 1, 0; 2015 OL, 4, 1, 0; 2015 OM, 28, 3, 2; 2015 ON, 12, 3, 2; 2015 OO, 9, 2, 2; 2015 OP, 3, 1, 0; 2015 OS, 8, 2, 1; 2015 OM_{21}, 4, 1, 0; 2015 ON_{21}, 7, 2, 1; 2015 OO_{21}, 4, 1, 0; 2015 OP_{21}, 3, 1, 0; 2015 OQ_{21}, 13, 2, 1; 2015 OW_{21}, 4, 1, 0; 2015 OX_{21}, 7, 2, 1; 2015 OY_{21}, 4, 1, 0; 2015 OZ_{21}, 7, 2, 1; 2015 OA_{22}, 24, 5, 33; 2015 OB_{22}, 7, 2, 1; 2015 OC_{22}, 15, 4, 31; 2015 OD_{22}, 10, 3, 32; 2015 OF_{22}, 4, 1, 0; 2015 OH_{22}, 4, 1, 0; 2015 OJ_{22}, 7, 2, 1; 2015 OH_{26}, 6, 2, 1; 2015 OR_{78}, 8, 2, 5; 2015 OS_{78}, 7, 2, 3; 2015 OU_{78}, 3, 1, 0; 2015 OX_{78}, 3, 1, 0; 2015 OB_{79}, 3, 1, 0; 2015 ON_{79}, 3, 1, 0; 2015 PL, 4, 1, 0; 2015 PR_{56}, 4, 1, 0; 2015 PW_{56}, 7, 2, 3; 2015 PZ_{56}, 3, 1, 0; 2015 PK_{57}, 7, 2, 3; 2015 PL_{57}, 6, 2,

1; 2015 PM_{57}, 3, 1, 0; 2015 PP_{227}, 3, 1, 0; 2015 PT_{227}, 3, 1, 0; 2015 PV_{227}, 3, 1, 0; 2015 PW_{227}, 3, 1, 0; 2015 PU_{228}, 4, 1, 0; 2015 QA, 4, 1, 0; 2015 QJ, 4, 1, 0; 2015 QH_3, 13, 2, 1; 2015 QN_3, 7, 2, 1; 2015 QP_3, 8, 2, 1; 2015 QQ_3, 14, 3, 5; 2015 QR_3, 14, 3, 5; 2015 QS_3, 3, 1, 0; 2015 QT_3, 12, 3, 4; 2015 QT_8, 4, 1, 0; 2015 QV_8, 4, 1, 0; 2015 QB_9, 5, 1, 0; 2015 QE_9, 8, 2, 1; 2015 QH_9, 7, 2, 2; 2015 QJ_9, 3, 1, 0; 2015 QK_9, 31, 3, 3; (348400), 5, 1, 0; (350713), 9, 2, 2; *[771, 120, 0∗, 2015/07/09–2015/08/25]*

476 Grange Observatory, Bussoleno
P. Pognant, Via Massimo d'Azeglio 34, I-10053 Bussoleno (TO), Italy [mc2213@mclink.it]
0.3-m $f/4$ reflector + CCD
UCAC-4
(4055), 6, 1, 0; (348400), 4, 2, 7; *[10, 2, 0∗, 2015/07/04–2015/07/11]*

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
2015 CU_{18}, 3, 1, 0; 2015 OO_{43}, 3, 1, 0; *[6, 2, 0∗, 2009/02/26–2013/09/02]*

510 Siegen
H. Bill, Didaktik der Physik, Adolf-Reichweinstr. 2, 57068 Siegen, Germany [harald@astro1.physik.uni-siegen.de]
0.43-m $f/4.5$ reflector + CCD
PPMXL
2015 OF ∗, 7, 2, 1; 2015 OH, 6, 1, 0; *[13, 2, 1∗, 2015/07/16–2015/07/18]*

511 Haute Provence
J. E. Arlot, IMCCE, Observatoire de Paris, 61 Avenue de l'Observatoire, F-75014 Paris, France [arlot@bdl.fr]
Observers M. Dennefeld, S. Bouquillon, F. Taris, W. Thuillot, B. Carry, L. Jorda, P. Tanga, S. Eggl, P. David, M. Pawlak
Measurers S. Bouquillon, F. Taris, T. Carlucci, C. Barache
1.20-m $f/6$ reflector + CCD
PPMXL
2008 SM_{164}, 10, 1, 0; 2015 NZ_{13}, 15, 1, 0; 2015 OH_{22}, 10, 1, 0; (47048), 10, 1, 0; (86376), 9, 1, 0; (293054), 92, 2, 3; *[146, 6, 0∗, 2015/07/20–2015/08/12]*

557 Ondřejov
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]
Observers P. Kušnirák, K. Hornoch, J. Vrastil
0.65-m $f/3.6$ reflector + CCD
UCAC-3
(3487), 7, 3, 6; (7822), 7, 2, 1; (13284), 8, 2, 3; (13290), 19, 5, 12; (24870), 48, 8, 18; (36635), 12, 2, 2; (54041), 16, 2, 2; (100614), 3, 1, 0; (184802), 2, 1, 0; (385186), 80, 10, 16; *[202, 10, 0∗, 2015/06/23–2015/08/23]*

560 Madonna di Dossobuono
L. Lai, Via Mantovana 130e, I-37062 Dossobuono (Verona), Italy [astrofil@astbo1.bo.cnr.it]
0.40-m $f/5.0$ reflector + CCD
UCAC-4
2015 GD, 3, 1, 0; 2015 JY_1, 6, 2, 19; 2015 MP_1, 3, 1, 0; 2015 MF_{95}, 3, 1, 0; *[15, 4, 0∗, 2015/07/14–2015/08/02]*

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 E. F. Helin, S. Pravdo, K. J. Lawrence, D. L. Rabinowitz
Measurer R. J. Bouma
1.0-m reflector + CCD
USNO-B1.0
2015 FA, 3, 1, 0; (4183), 3, 1, 0; (7889), 3, 1, 0; (152679), 2, 1, 0; *[11, 4, 0∗, 1997/02/06–1998/06/20]*

568 Mauna Kea
D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu] (2)
C. Veillet, Canada-France-Hawaii Telescope Corporation, P.O. Box 1597, Kamuela, HI 96743, U.S.A. [veillet@cfht.hawaii.edu] (3)
P. A. Wiegert, Physics and Astronomy Department, University of Western Ontario, London N6A 3K7, Canada [pwiegert@uwo.ca] (19)
A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [boattini@ias.rm.cnr.it] (20)
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs@tiscali.it] (29)
P. Veres, no details supplied (38)
Observers D. J. Tholen, R. Zelman, A. Draginda, R. J. Wainscoat, L. Wells, J. Kleyna, C. Wipper, S. Sheppard, C. Trujillo, D. Woodworth, C. Unruh, E. Schunova, Y. Ramanjooloo
Measurers D. J. Tholen, M. Micheli, R. J. Wainscoat, J. Kleyna, P. Veres, T. Grav, R. Weryk, E. Schunova, C. Unruh
3.6-m Canada-France-Hawaii Telescope + CCD, 8.2-m reflector + CCD, 2.24-m University of Hawaii reflector + CCD
PPMXL
{19} 2005 SZ_{178}, 3, 1, 0; 2008 KD_3, 7, 1, 0; 2011 HR_{33}, 3, 1, 0; 2011 WB_{26}, 3, 1, 0; 2012 TC_{256}, 3, 1, 0; 2012 UY_{66}, 3, 1, 0; 2014 KN_{91}, 3, 1, 0; 2014 WV_6, 3, 1, 0; 2015 BQ_{77}, 4, 2, 1; 2015 EB_3, 3, 1, 0; 2015 MY_{60}, 3, 1, 0; 2015 MS_{86}, 3, 1, 0; *[41, 12, 0∗, 2004/08/12–2007/02/14]*

{20} 2014 WR_{352}, 3, 1, 0; 2015 BO_{15}, 3, 1, 0; 2015 BA_{110}, 6, 2, 14; 2015 DQ_{147}, 6, 2, 17; 2015 NW_6, 3, 1, 0; 2015 OD_{20}, 3, 1, 0; 2015 PC_{230}, 3, 1, 0; *[27, 7, 0∗, 2005/10/07–2005/12/03]*

{2} 2000 AF_{205}, 2, 2, 10; 2007 XT_3, 4, 2, 1; 2008 CO_{116}, 5, 2, 697; 2008 SD_{122}, 2, 1, 0; 2008 WB_{45}, 3, 1, 0; 2009 SP, 6, 2, 22; 2009 SZ_{99}, 6, 2, 1; 2011 AZ_{55}, 2, 1, 0; 2011 ET_{29}, 7, 2, 1; 2011 UE_{305}, 4, 2, 30; 2012 BN_{58}, 3, 1, 0; 2012 HG_8, 6, 2, 1; 2012 SG_{32}, 3, 1, 0; 2012 TD_{115}, 3, 1, 0; 2013 GZ_{73}, 5, 2, 1; 2013 LC_1, 5, 2, 6; 2013 RM_{83}, 1, 1, 0; 2013 XK_{22}, 4, 3, 33; 2014 HJ_{142}, 3, 1, 0; 2014 MZ_{17}, 2, 2, 1; 2014 ON_{344}, 3, 1, 0; 2014 QF_{433}, 4, 2, 5; 2014 WD_{201}, 3, 1, 0; 2014 XJ_3, 4, 2, 1; 2014 XH_{10}, 3, 1, 0; 2014 YK_9, 2, 1, 0; 2014 YL_{14}, 1, 1, 0; 2015 AE_{45}, 2, 1, 0; 2015 AF_{45}, 2, 1, 0; 2015 AZ_{245}, 1, 1, 0; 2015 AA_{246}, 4, 2, 88; 2015 BL, 5, 1, 0; 2015 BC_4, 2, 1, 0; 2015 BU_4, 2, 1, 0; 2015 BK_{311}, 2, 1, 0; 2015 CZ_{13}, 3, 1, 0; 2015 DP_{53}, 4, 1, 0; 2015 DE_{200}, 2, 1, 0; 2015 DR_{215}, 2, 1, 0; 2015 EK_7, 2, 1, 0; 2015 FF_{35}, 4, 1, 0; 2015 FP_{118}, 4, 2, 35; 2015 FP_{332}, 2, 1, 0; 2015 HY_{116}, 5, 1, 0; 2015 HE_{170}, 2, 1, 0; 2015 JJ, 11, 6, 40; 2015 JV, 2, 1, 0; 2015 KB_{19}, 2, 1, 0; 2015 KF_{19}, 2, 1, 0; 2015 KT_{56}, 3, 1, 0; 2015 KB_{57}, 2, 1, 0; 2015 KK_{57}, 2, 1, 0; 2015 KN_{120}, 2, 1, 0; 2015 KR_{157}, 5, 2, 5; 2015 LS_{24}, 3, 1, 0; 2015 LA_{40}, 2, 1, 0; 2015 MB_{54}, 2, 1, 0; 2015 MT_{59}, 4, 1, 0; 2015 MT_{96}, 4, 1, 0; 2015 MQ_{101}, 2, 1, 0; 2015 MR_{103}, 3, 1, 0; 2015 MA_{129}, 1, 1, 0; 2015 MO_{130}, 5, 2, 21; 2015 MQ_{130}, 8, 3, 34; 2015 MZ_{130}, 4, 1, 0; 2015 NT_2, 2, 1, 0; 2015 ND_3, 18, 5, 34; 2015 NH_3, 2, 1, 0; 2015 NJ_3, 2, 1, 0; 2015 NK_3, 5, 2, 4; 2015 NL_3, 3, 1, 0; 2015 NY_9, 10, 2, 9; 2015 NG_{13}, 4, 2, 1; 2015 NK_{13}, 11, 5, 29; 2015 NU_{13}, 2, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 ON, 2, 1, 0; 2015 OQ_{21}, 3, 1, 0; 2015 OS_{35}, 3, 1, 0; 2015 PR_{56}, 2, 1, 0; 2015 PT_{56}, 3, 1, 0; 2015 PK_{57}, 3, 1, 0; 2015 PL_{57}, 2, 1, 0; 2015 PO_{57}, 4, 2, 1; 2015 PH_{228}, 2, 1, 0; 2015 PR_{228}, 2, 1, 0; 2015 PS_{228}, 3, 1, 0; 2015 PU_{228}, 2, 1, 0; (6076), 3, 1, 0; (8206), 2, 1, 0; (8341), 2, 1, 0; (12589), 2, 1, 0; (13440), 2, 1, 0; (74181), 3, 1, 0; (92193), 3, 1, 0; (155521), 2, 1, 0; (158502), 2, 1, 0; (169364), 2, 1, 0; (170671), 2, 1, 0; (174231), 3, 1, 0; (194964), 2, 1, 0; (211013), 2, 1, 0; (234492), 2, 1, 0; (240852), 3, 1, 0; (265585), 1, 1, 0; (285478), 2, 1, 0; (285699), 3, 1, 0; (298143),

2, 1, 0; (303151), 2, 1, 0; (340269), 3, 1, 0; (353546), 2, 1, 0; (389672), 5, 1, 0; (389953), 2, 1, 0; (392603), 2, 1, 0; *[369, 114, 0∗, 2004/12/12–2015/08/19]*

{3} 2015 AW_{34}, 4, 1, 0; 2015 NY_7, 2, 1, 0; 2015 PK_{159}, 2, 1, 0; *[8, 3, 0∗, 1997/05/09–1999/01/14]*

{38} 2015 MX_{130}, 3, 1, 0; 2015 NM_3, 7, 1, 0; 2015 NV_9, 3, 1, 0; 2015 NW_9, 6, 1, 0; *[19, 4, 0∗, 2015/06/21–2015/07/12]*

{29} 2012 HY_{33}, 4, 2, 5; 2014 BZ_8, 3, 1, 0; 2014 SG_{25}, 3, 1, 0; 2015 MJ_{130}, 4, 1, 0; 2015 MO_{130}, 3, 1, 0; 2015 MB_{131}, 3, 1, 0; 2015 MC_{131}, 2, 1, 0; 2015 MD_{131}, 3, 1, 0; 2015 NJ_3, 3, 1, 0; 2015 NL_3, 3, 1, 0; 2015 NM_3, 2, 1, 0; 2015 NV_9, 3, 1, 0; 2015 NW_9, 3, 1, 0; 2015 NY_9, 3, 1, 0; 2015 NG_{13}, 3, 1, 0; 2015 NH_{13}, 3, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NT_{13}, 3, 1, 0; 2015 NU_{13}, 2, 1, 0; 2015 NY_{13}, 4, 1, 0; 2015 NZ_{22}, 3, 1, 0; 2015 NJ_{24}, 3, 1, 0; 2015 ON, 3, 1, 0; 2015 OO, 3, 1, 0; 2015 OT, 3, 1, 0; 2015 OV, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OQ_{21}, 3, 1, 0; 2015 OR_{21}, 3, 1, 0; 2015 OS_{21}, 3, 1, 0; 2015 OW_{21}, 3, 1, 0; 2015 OX_{21}, 3, 1, 0; 2015 OZ_{21}, 3, 1, 0; 2015 OB_{22}, 3, 1, 0; 2015 OC_{22}, 2, 1, 0; 2015 OD_{22}, 3, 1, 0; 2015 OF_{22}, 3, 1, 0; 2015 OJ_{22}, 3, 1, 0; 2015 ON_{22}, 3, 1, 0; 2015 ON_{79}, 3, 1, 0; 2015 PS_{56}, 4, 1, 0; 2015 PB_{57}, 4, 1, 0; 2015 PN_{57}, 4, 1, 0; 2015 PP_{57}, 3, 1, 0; 2015 PS_{57}, 4, 1, 0; 2015 PW_{57}, 8, 1, 0; 2015 PQ_{227}, 5, 1, 0; 2015 PR_{227}, 3, 1, 0; 2015 PT_{227}, 3, 1, 0; 2015 PU_{227}, 3, 1, 0; 2015 PV_{227}, 3, 1, 0; 2015 PW_{227}, 3, 1, 0; 2015 PA_{228}, 4, 1, 0; 2015 PC_{228}, 3, 1, 0; 2015 PD_{228}, 3, 1, 0; 2015 PG_{228}, 3, 1, 0; 2015 PR_{228}, 3, 1, 0; 2015 PS_{228}, 7, 2, 2; 2015 PC_{229}, 6, 1, 0; 2015 PJ_{229}, 4, 1, 0; 2015 PK_{229}, 9, 3, 6; 2015 PQ_{291}, 3, 1, 0; 2015 PK_{307}, 3, 1, 0; 2015 PL_{307}, 3, 1, 0; 2015 PM_{307}, 8, 2, 6; 2015 PN_{307}, 14, 2, 7; (4236), 3, 1, 0; (194659), 3, 1, 0; *[245, 68, 0∗, 2009/05/20–2015/08/20]*

583 Odessa-Mayaki
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Observer V. Kashuba
Measurers V. Troianskyi, S. Kashuba
0.80-m $f/3$ reflector + CCD
UCAC-4
2015 JY_1, 17, 2, 1; (1754), 17, 1, 0; *[34, 2, 0∗, 2015/07/08–2015/07/12]*

585 Kyiv comet station
A. Baransky, Astronomical Observatory of Kyiv University, Observatorna 3, Kyiv, Ukraine [abaransky@ukr.net]
0.7-m $f/4$ reflector + CCD
UCAC-4
(1880), 9, 1, 0; *[9, 1, 0∗, 2015/06/05]*

587 Sormano
P. Sicoli, Viale Montegrappa 6, I-23900 Lecco, Italy [obs.sormano@alice.it]
Observers A. Fumagalli, F. Manca, P. Sicoli, A. Testa, E. Colzani, G. Ventre
0.5-m $f/6.8$ reflector + CCD
UCAC-4, USNO-B1.0
2011 QG_{21}, 4, 1, 0; 2011 YC_{29}, 14, 2, 1; 2015 QK, 3, 1, 0; 2015 QN_3, 4, 1, 0; *[25, 4, 0∗, 2015/07/14–2015/08/19]*

595 Farra d'Isonzo
E. Pettarin, CCAF, Strada Colombara 11, I-34072 Farra d'Isonzo (GO), Italy [info@ccaf.it]
Observers L. Bittesini, E. Pettarin, G. Panterotto
0.61-m $f/4.0$ reflector + CCD, 0.40-m $f/4.5$ reflector + CCD
PPMXL, UCAC-4
2008 VD_{64}, 3, 1, 0; 2015 NZ_{13}, 2, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 NB_{14}, 2, 1, 0; 2015 OG, 3, 1, 0; 2015 OH, 4, 2, 1; 2015 OM_{21}, 2, 1, 0; 2015 OC_{22}, 2, 1, 0; 2015 OH_{22}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 ON_{35}, 2, 1, 0; 2015 PA, 2, 1, 0; 2015 PB, 2, 1, 0; 2015 PC, 2, 1, 0; 2015 PK_9, 3, 1, 0; 2015 PU_{57}, 2, 1, 0; 2015 QN_3, 2, 1, 0; 2015 QO_3, 2, 1, 0; 2015 QP_3, 2, 1, 0; 2015 QT_3, 5, 2, 4; 2015 QT_8, 4, 1, 0; 2015 QZ_8, 2, 1, 0; 2015 QA_9, 2, 1, 0; (348400), 3, 1, 0; *[62, 24, 0∗, 2015/07/16–2015/08/25]*

598 Loiano
M. Carpino, Osservatorio Astronomico, via Brera 28, I-20121 Milan, Italy [carpino@brera.mi.astro.it]
Observer I. Bruni
Measurer R. Haver
1.52-m $f/4.67$ Ritchey-Chrétien + CCD
UCAC-4
2015 GD, 3, 1, 0; *[3, 1, 0∗, 2015/07/28]*

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
2005 UX_{349}, 8, 1, 0; 2010 VK_{77}, 4, 1, 0; 2013 CF_7, 4, 1, 0; 2014 US_{180}, 4, 1, 0; 2014 WT_{403}, 3, 1, 0; 2014 WP_{412}, 4, 1, 0; 2014 YX_{23}, 3, 1, 0; 2015 AJ_{86}, 4, 1, 0; 2015 BM_3, 4, 1, 0; 2015 KF_{114}, 2, 1, 0; 2015 KL_{142}, 4, 1, 0; 2015 LZ_{21}, 8, 2, 4; 2015 LG_{22}, 4, 1, 0; 2015 MY, 4, 1, 0; 2015 MA_{59}, 4, 1, 0; 2015 MM_{84}, 4, 1, 0; 2015 ML_{106}, 4, 1, 0; 2015 NK_9, 4, 1, 0; 2015 OQ_{40}, 4, 1, 0; 2015 PR_8, 3, 1, 0; 2015 PB_{30}, 3, 1, 0; 2015 PA_{60}, 3, 1, 0; 2015 PN_{293}, 3, 1, 0; *[92, 23, 0∗, 2002/10/02–2005/08/30]*

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. J. Lawrence, P. Kervin, J. Africano
Measurer R. Matson
1.2-m reflector + CCD
USNO-A2.0
2013 LL_{31}, 3, 1, 0; 2014 VY_3, 3, 1, 0; 2014 WJ_{423}, 3, 1, 0; 2014 WN_{455}, 3, 1, 0; 2014 XH_{10}, 3, 1, 0; 2015 FA, 3, 1, 0; 2015 JJ, 3, 1, 0; 2015 LD_{14}, 3, 1, 0; 2015 LF_{15}, 3, 1, 0; 2015 LP_{39}, 3, 1, 0; 2015 MP_{68}, 9, 3, 10; 2015 MG_{104}, 3, 1, 0; 2015 MV_{119}, 3, 1, 0; 2015 NS_8, 3, 1, 0; 2015 OV_{14}, 3, 1, 0; 2015 ON_{23}, 3, 1, 0; 2015 OK_{47}, 3, 1, 0; 2015 PY_{54}, 3, 1, 0; (4183), 3, 1, 0; (12433), 3, 1, 0; (23187), 9, 3, 24; (68278), 2, 1, 0; (71100), 3, 1, 0; (180185), 2, 1, 0; *[82, 24, 0∗, 2000/04/11–2005/09/06]*

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
(92), 2, 2, 1; (688), 2, 1, 0; (85989), 2, 1, 0; (206378), 2, 1, 0; (348400), 2, 1, 0; (436724), 2, 1, 0; *[12, 6, 0∗, 2015/07/23–2015/08/25]*

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
UCAC-4
2002 QO_{107}, 3, 1, 0; 2003 SN_{302}, 6, 2, 1; 2005 TL_{129}, 3, 1, 0; 2005 UZ_{202}, 3, 1, 0; 2006 SS_{147}, 3, 1, 0; 2008 XX_{42}, 3, 1, 0; 2008 YU_{102}, 3, 1, 0; 2011 WD_{82}, 3, 1, 0; 2013 CG_{72}, 3, 1, 0; 2013 EK_{58}, 3, 1, 0; 2014 KZ_{67}, 3, 1, 0; 2014 UH_{181}, 3, 1, 0; 2014 US_{184}, 3, 1, 0; 2014 WW_{181}, 6, 2, 1477; 2014 WB_{357}, 3, 1, 0; 2014 WF_{397}, 3, 1, 0; 2014 XH_{10}, 3, 1, 0; 2014 XL_{31}, 3, 1, 0; 2015 HV_{14}, 3, 1, 0; 2015 HC_{42}, 3, 1, 0; 2015 KO_{86}, 3, 1, 0; 2015 MT_{14}, 3, 1, 0; 2015 MX_{129}, 3, 1, 0; 2015 OX_{12}, 3, 1, 0; 2015 OX_{16}, 3, 1, 0; 2015 PC_{230}, 3, 1, 0; (1992), 6, 2, 1; (9489), 3, 1, 0; (14270), 6, 2, 2; (23474), 6, 2, 1; (36879), 3, 1, 0; (40076), 6, 2, 1; (40184), 3, 1, 0; (42239), 3, 1, 0; (42957), 6, 2,

2; (46171), 3, 1, 0; (51162), 4, 1, 0; (62883), 6, 2, 2; (71208), 6, 2, 2; (94807), 6, 2, 1; (113978), 6, 2, 1; (116728), 3, 1, 0; (142273), 3, 1, 0; (163756), 3, 1, 0; (172191), 6, 2, 1; (183630), 3, 1, 0; (185789), 3, 1, 0; (212855), 3, 1, 0; (276155), 6, 2, 2; (302653), 6, 2, 1; (302942), 6, 2, 1; (305358), 3, 1, 0; (311631), 6, 2, 1; (339042), 3, 1, 0; (386593), 6, 2, 1; (398468), 3, 1, 0; *[220, 56, 0*, 2004/05/18–2015/08/23]*

628 Mülheim-Ruhr

A. Martin, Turtle Star Observatory, Friedhostr. 15, D-45478 Mülheim-Ruhr, Germany [axelm@bph.ruhr-uni-bochum.de]
Observers A. Martin, K. Kleemann-Boeker
0.35-m $f/5.4$ reflector + CCD, 0.30-m $f/5$ reflector + CCD
USNO-A2.0, UCAC-2

2001 WH_{15}, 2, 1, 0; 2004 RY_{113}, 3, 1, 0; 2007 WJ_{6}, 3, 1, 0; 2010 JO_{69}, 2, 1, 0; 2014 WF_{365}, 3, 1, 0; (253109), 2, 1, 0; *[15, 6, 0*, 2015/07/10–2015/08/22]*

644 Palomar Mountain/NEAT

R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
Observers E. F. Helin, S. Pravdo, K. J. Lawrence, K. Kuluhiwa, M. Hicks, R. Thicksten, R. Bambery
Measurers R. Matson, M. Pur, S. Deshmukh
1.2-m Schmidt + CCD
USNO-A2.0, USNO-B1.0, UCAC-4, CMC

1999 TB_{302}, 3, 1, 0; 2001 FW_{29}, 3, 1, 0; 2006 QS_{23}, 2, 1, 0; 2006 QS_{185}, 3, 1, 0; 2006 TP_{65}, 3, 1, 0; 2006 UN_{142}, 3, 1, 0; 2007 BY_{80}, 3, 1, 0; 2007 YJ_{68}, 3, 1, 0; 2008 KD_{3}, 3, 1, 0; 2008 KG_{27}, 6, 1, 0; 2008 UR_{41}, 3, 1, 0; 2008 YW_{154}, 3, 1, 0; 2009 EM, 3, 1, 0; 2009 EC_{17}, 3, 1, 0; 2009 SY_{161}, 3, 1, 0; 2010 JG_{78}, 3, 1, 0; 2010 VR_{189}, 3, 1, 0; 2011 QM_{2}, 3, 1, 0; 2011 QX_{58}, 3, 1, 0; 2011 SU_{39}, 3, 1, 0; 2011 SH_{127}, 3, 1, 0; 2011 SJ_{232}, 3, 1, 0; 2011 SU_{241}, 3, 1, 0; 2011 SE_{259}, 3, 1, 0; 2011 UT_{128}, 3, 1, 0; 2011 UZ_{324}, 3, 1, 0; 2011 WZ_{133}, 3, 1, 0; 2011 WU_{134}, 2, 1, 0; 2011 YS_{29}, 6, 1, 0; 2012 TN_{10}, 3, 1, 0; 2012 TU_{206}, 3, 1, 0; 2012 UW_{18}, 9, 3, 60; 2012 UW_{43}, 3, 1, 0; 2012 WH_{33}, 6, 2, 8; 2012 XN_{7}, 3, 1, 0; 2013 AE_{44}, 6, 1, 0; 2013 AG_{79}, 3, 1, 0; 2013 AR_{102}, 3, 1, 0; 2013 CG_{72}, 3, 1, 0; 2013 CG_{212}, 3, 1, 0; 2013 EB_{93}, 3, 1, 0; 2013 GZ_{73}, 8, 3, 235; 2013 PV_{20}, 3, 1, 0; 2014 FP_{25}, 3, 1, 0; 2014 HA_{149}, 3, 1, 0; 2014 OL_{335}, 3, 1, 0; 2014 UH_{122}, 6, 2, 26; 2014 UJ_{126}, 6, 2, 1939; 2014 UH_{181}, 6, 2, 25; 2014 UN_{184}, 6, 2, 890; 2014 UJ_{214}, 3, 1, 0; 2014 UO_{216}, 3, 1, 0; 2014 VD_{3}, 3, 1, 0; 2014 VD_{6}, 3, 1, 0; 2014 VA_{17}, 3, 1, 0; 2014 VF_{28}, 3, 1, 0; 2014 VQ_{33}, 3, 1, 0; 2014 WV_{2}, 6, 1, 0; 2014 WY_{7}, 3, 1, 0; 2014 WV_{63}, 3, 1, 0; 2014 WG_{69}, 3, 1, 0; 2014 WH_{82}, 3, 1, 0; 2014 WY_{112}, 3, 1, 0; 2014 WB_{183}, 3, 1, 0; 2014 WP_{214}, 3, 1, 0; 2014 WO_{269}, 3, 1, 0; 2014 WX_{285}, 3, 1, 0; 2014 WY_{288}, 3, 1, 0; 2014 WJ_{293}, 6, 2, 21; 2014 WK_{319}, 3, 1, 0; 2014 WO_{335}, 3, 1, 0; 2014 WG_{363}, 3, 1, 0; 2014 WB_{373}, 3, 1, 0; 2014 WV_{383}, 3, 1, 0; 2014 WV_{388}, 3, 1, 0; 2014 WH_{394}, 3, 1, 0; 2014 WE_{396}, 3, 1, 0; 2014 WQ_{398}, 3, 1, 0; 2014 WH_{400}, 3, 1, 0; 2014 WN_{408}, 3, 1, 0; 2014 WA_{423}, 6, 2, 459; 2014 WT_{461}, 3, 1, 0; 2014 WK_{463}, 3, 1, 0; 2014 WE_{464}, 3, 1, 0; 2014 WB_{467}, 3, 1, 0; 2014 WA_{485}, 3, 1, 0; 2014 WZ_{498}, 6, 2, 27; 2014 WE_{499}, 3, 1, 0; 2014 WL_{503}, 3, 1, 0; 2014 WS_{505}, 3, 1, 0; 2014 XL_{3}, 9, 3, 21; 2014 XZ_{3}, 3, 1, 0; 2014 XO_{8}, 6, 2, 23; 2014 XK_{12}, 3, 1, 0; 2014 XN_{17}, 3, 1, 0; 2014 XL_{31}, 6, 1, 0; 2014 XA_{39}, 12, 3, 20; 2014 YY_{2}, 3, 1, 0; 2014 YG_{17}, 6, 2, 471; 2014 YX_{23}, 3, 1, 0; 2014 YR_{31}, 3, 1, 0; 2014 YL_{43}, 3, 1, 0; 2015 AU_{3}, 6, 2, 942; 2015 AF_{27}, 3, 1, 0; 2015 AW_{34}, 3, 1, 0; 2015 AX_{162}, 3, 1, 0; 2015 BD_{1}, 3, 1, 0; 2015 BP_{16}, 3, 1, 0; 2015 BL_{27}, 3, 1, 0; 2015 BY_{27}, 3, 1, 0; 2015 BJ_{37}, 3, 1, 0; 2015 BF_{65}, 3, 1, 0; 2015 BZ_{69}, 3, 1, 0; 2015 BF_{87}, 3, 1, 0; 2015 BC_{130}, 3, 1, 0; 2015 BX_{401}, 9, 3, 988; 2015 CA_{41}, 3, 1, 0; 2015 CY_{41}, 22, 5, 27; 2015 DL_{114}, 3, 1, 0; 2015 EJ_{12}, 6, 2, 11; 2015 EX_{19}, 3, 1, 0; 2015 ED_{21}, 3, 1, 0; 2015 EJ_{32}, 3, 1, 0; 2015 EB_{43}, 3, 1, 0; 2015 FA, 10, 3, 1267; 2015 FD_{48}, 3, 1, 0; 2015 FV_{107}, 5, 2, 18; 2015 FB_{115}, 3, 1, 0; 2015 FQ_{138}, 3, 1, 0; 2015 FC_{157}, 3, 1, 0; 2015 FD_{172}, 3, 1, 0; 2015 FU_{223}, 3, 1, 0; 2015 FT_{294}, 3, 1, 0; 2015 FB_{323}, 3, 1, 0; 2015 GS_{16}, 6, 2, 11; 2015 GR_{23}, 6, 2, 8; 2015 GC_{25}, 3, 1, 0; 2015 HZ_{60}, 3, 1, 0; 2015 JQ_{6}, 3, 1, 0; 2015 KP_{4}, 3, 1, 0; 2015 KH_{6}, 3, 1, 0; 2015 KW_{15}, 6, 2, 41; 2015 KA_{23}, 3, 1, 0; 2015 KC_{36}, 3, 1, 0; 2015 KF_{42}, 3, 1, 0; 2015 KS_{52}, 3, 1, 0; 2015 KK_{123}, 5, 2, 24; 2015 KZ_{159}, 3, 1, 0; 2015 LF_{15}, 3, 1, 0; 2015 LE_{20}, 3, 1, 0; 2015 LZ_{21}, 3, 1, 0; 2015 LC_{22}, 3, 1, 0; 2015 LG_{22}, 3, 1, 0; 2015 LZ_{29}, 3, 1, 0; 2015 LD_{30}, 3, 1, 0; 2015 LL_{30}, 3, 1, 0; 2015 LW_{30}, 3, 1, 0; 2015 LJ_{33}, 6, 2, 27; 2015 LU_{33}, 3, 1, 0; 2015 LP_{39}, 3, 1, 0; 2015 LV_{39}, 9, 2, 36; 2015 MA_{7}, 3, 1, 0; 2015 MN_{13}, 3, 1, 0; 2015 MO_{15}, 3, 1, 0; 2015 MN_{31}, 3, 1, 0; 2015 ML_{35}, 3, 1, 0; 2015 MO_{44}, 3, 1, 0; 2015 ML_{47}, 3, 1, 0; 2015 MT_{50}, 3, 1, 0; 2015 MK_{51}, 3, 1, 0; 2015 MM_{52}, 3, 1, 0; 2015 ML_{57}, 3, 1, 0; 2015 MY_{57}, 6, 2, 18; 2015 MR_{58}, 3, 1, 0; 2015 MV_{58}, 3, 1, 0; 2015 MG_{59}, 3, 1, 0; 2015 MX_{60}, 6, 1, 0; 2015 MX_{65}, 3, 1, 0; 2015 MV_{66}, 3, 1, 0; 2015 MA_{68}, 6, 2, 31; 2015 MP_{68}, 3, 1, 0; 2015 MW_{68}, 3, 1, 0; 2015 MJ_{69}, 3, 1, 0; 2015 MK_{69}, 3, 1, 0; 2015 ML_{71}, 9, 2, 4; 2015 MG_{77}, 6, 2, 24; 2015 MM_{77}, 3, 1, 0; 2015 MN_{77}, 3, 1, 0; 2015 MB_{83}, 9, 3, 1806; 2015 MM_{84}, 6, 2, 1325; 2015 MP_{84}, 6, 2, 84; 2015 MV_{84}, 6, 2, 8; 2015 MT_{88}, 3, 1, 0; 2015 MC_{100}, 3, 1, 0; 2015 ML_{108}, 3, 1, 0; 2015 MH_{112}, 3, 1, 0; 2015 MW_{116}, 3, 1, 0; 2015 MX_{116}, 3, 1, 0; 2015 MV_{119}, 3, 1, 0; 2015 MC_{120}, 6, 2, 1387; 2015 MN_{121}, 3, 1, 0; 2015 MC_{122}, 3, 1, 0; 2015 MT_{123}, 6, 2, 468; 2015 MA_{125}, 3, 1, 0; 2015 MO_{129}, 3, 1, 0; 2015 NR_{5}, 6, 2, 16; 2015 NE_{7}, 3, 1, 0; 2015 NJ_{8}, 3, 1, 0; 2015 NQ_{8}, 3, 1, 0; 2015 NR_{11}, 3, 1, 0; 2015 NP_{12}, 3, 1, 0; 2015 NM_{14}, 3, 1, 0; 2015 NU_{15}, 3, 1, 0; 2015 NG_{18}, 3, 1, 0; 2015 NN_{19}, 6, 2, 1412; 2015 NN_{24}, 6, 2, 19; 2015 NB_{25}, 3, 1, 0; 2015 NG_{25}, 3, 1, 0; 2015 OC_{7}, 3, 1, 0; 2015 OW_{10}, 6, 1, 0; 2015 OZ_{19}, 6, 2, 1403; 2015 OY_{22}, 3, 1, 0; 2015 OB_{23}, 3, 1, 0; 2015 OC_{23}, 3, 1, 0; 2015 OO_{23}, 3, 1, 0; 2015 OD_{24}, 3, 1, 0; 2015 OR_{24}, 3, 1, 0; 2015 OX_{24}, 3, 1, 0; 2015 OA_{31}, 6, 2, 12; 2015 OC_{33}, 3, 1, 0; 2015 OS_{33}, 3, 1, 0; 2015 OT_{33}, 3, 1, 0; 2015 OL_{37}, 3, 1, 0; 2015 OP_{40}, 3, 1, 0; 2015 OS_{46}, 3, 1, 0; 2015 OV_{52}, 3, 1, 0; 2015 OP_{65}, 3, 1, 0; 2015 OZ_{65}, 3, 1, 0; 2015 OB_{66}, 3, 1, 0; 2015 OQ_{74}, 3, 1, 0; 2015 OU_{74}, 3, 1, 0; 2015 OA_{75}, 3, 1, 0; 2015 OZ_{75}, 3, 1, 0; 2015 OH_{76}, 3, 1, 0; 2015 ON_{76}, 3, 1, 0; 2015 PU_{1}, 3, 1, 0; 2015 PW_{2}, 3, 1, 0; 2015 PH_{3}, 3, 1, 0; 2015 PM_{3}, 3, 1, 0; 2015 PP_{3}, 3, 1, 0; 2015 PQ_{3}, 6, 2, 29; 2015 PS_{33}, 3, 1, 0; 2015 PK_{34}, 3, 1, 0; 2015 PO_{37}, 3, 1, 0; 2015 PS_{38}, 3, 1, 0; 2015 PB_{53}, 3, 1, 0; 2015 PU_{143}, 3, 1, 0; 2015 PU_{149}, 3, 1, 0; 2015 PK_{159}, 3, 1, 0; 2015 PK_{230}, 3, 1, 0; (1685), 6, 1, 0; (4055), 4, 2, 2; (11405), 5, 2, 12; (48603), 2, 1, 0; (52750), 6, 2, 52; (53425), 2, 1, 0; (392470), 3, 1, 0; (439751), 3, 1, 0; (439763), 3, 1, 0; (439795), 3, 1, 0; (439808), 3, 1, 0; (439813), 3, 1, 0; (439817), 6, 2, 1; (439818), 6, 2, 1301; (439822), 3, 1, 0; (439823), 7, 2, 6; (439826), 3, 1, 0; *[1037, 277, 0*, 2001/05/14–2007/03/08]*

645 Apache Point–Sloan Digital Sky Survey

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Observer S. Digital Sky Survey Collaboration
Measurers M. Micheli, S. Deen
2.5-m reflector + CCD
PPMXL

2000 KQ_{1}, 3, 1, 0; 2003 SW_{405}, 3, 1, 0; 2003 UB_{292}, 3, 1, 0; 2004 PJ_{87}, 2, 1, 0; 2004 XR_{17}, 3, 1, 0; 2005 SD_{188}, 2, 1, 0; 2005 TS_{44}, 3, 1, 0; 2005 TB_{154}, 2, 1, 0; 2005 UX_{244}, 2, 1, 0; 2005 VZ_{35}, 3, 1, 0; 2006 UM_{203}, 2, 1, 0; 2006 XQ_{72}, 2, 1, 0; 2007 FL_{42}, 3, 1, 0; 2008 EC_{69}, 4, 2, 10; 2008 ST_{208}, 2, 1, 0; 2008 SM_{214}, 3, 1, 0; 2008 SZ_{275}, 6, 2, 23; 2008 TJ_{31}, 3, 1, 0; 2008 UY_{21}, 3, 1, 0; 2008 UP_{39}, 3, 1, 0; 2008 UT_{39}, 6, 2, 4; 2008 UB_{117}, 2, 1, 0; 2009 BF_{13}, 2, 1, 0; 2009 BR_{70}, 2, 1, 0; 2009 SE_{64}, 3, 1, 0; 2010 CU_{111}, 2, 1, 0; 2010 EW_{45}, 4, 2, 1; 2010 JG_{120}, 2, 1, 0; 2010 RQ_{26}, 2, 1, 0; 2010 SL_{7}, 2, 1, 0; 2010 WE_{16}, 2, 1, 0; 2011 EJ_{45}, 2, 1, 0; 2011 QO_{36}, 2, 1, 0; 2011 SE_{56}, 2, 1, 0; 2011 SE_{259}, 2, 1, 0; 2011 UK_{305}, 2, 1, 0; 2011 VX_{7}, 2, 1, 0; 2011 YQ_{39}, 3, 1, 0; 2012 AO_{7}, 2, 1, 0; 2012 HY_{33}, 5, 2, 3; 2012 TE_{288}, 2, 1, 0; 2012 UC_{26}, 2, 1, 0; 2013 AF_{17}, 2, 1, 0; 2013 AC_{20}, 3, 1, 0; 2013 AK_{50}, 2, 1, 0; 2013 AX_{83}, 2, 1, 0; 2013 AT_{130}, 2, 1, 0; 2013 CL_{167}, 2, 1, 0; 2013 XV_{9}, 2, 1, 0; 2013 YA_{4}, 2, 1, 0; 2013 YU_{13}, 2, 1, 0; 2014 BB_{25}, 2, 1, 0; 2014 DD_{47}, 2, 1, 0; 2014 FA_{3}, 4, 2, 442; 2014 HS_{24}, 2, 1, 0; 2014 HH_{146}, 2, 1, 0; 2014 HO_{165}, 4, 2, 26; 2014 JE_{35}, 2, 1, 0; 2014 KW_{20}, 2, 1, 0; 2014 KH_{30}, 2, 1, 0; 2014 KX_{34}, 2, 1, 0; 2014 KJ_{97}, 2, 1, 0; 2014 UM_{33}, 6, 2, 4; 2014 UM_{100}, 6, 3, 38; 2014 UF_{104}, 8, 4, 51; 2014 UR_{104}, 2, 1, 0; 2014 UU_{132}, 2, 1, 0; 2014 UV_{143}, 4, 2, 51; 2014 UL_{178}, 2, 1, 0; 2014 UM_{189}, 2, 1, 0; 2014 US_{207}, 2, 1, 0; 2014 UJ_{214}, 2, 1, 0; 2014 VX_{3}, 2, 1, 0; 2014 VB_{25}, 2, 1, 0; 2014 WH_{35}, 2, 1, 0; 2014 WQ_{55}, 2, 1, 0; 2014 WN_{61}, 2, 1, 0; 2014 WQ_{121}, 2, 1, 0; 2014 WW_{126}, 2, 1, 0; 2014 WT_{136}, 2, 1, 0; 2014 WV_{169}, 2, 1, 0; 2014 WW_{172}, 2, 1, 0; 2014 WU_{179}, 2, 1, 0; 2014 WG_{232}, 2, 1, 0; 2014 WP_{249}, 2, 1, 0; 2014 WE_{253}, 4, 1, 0; 2014 WO_{281}, 2, 1, 0; 2014 WK_{350}, 2, 1, 0; 2014 WY_{361}, 2, 1, 0; 2014 WY_{380}, 4, 2, 993; 2014 WF_{382}, 4, 1, 0; 2014 WU_{383}, 4, 2, 8; 2014 WN_{401}, 2, 1, 0; 2014 WJ_{423}, 2, 1, 0; 2014 WK_{493}, 2, 1, 0; 2014 WC_{499}, 2, 1, 0; 2014 WT_{501}, 2, 1, 0; 2014 WF_{503}, 2, 1, 0; 2014 XN_{18}, 2, 1, 0; 2014 XW_{36}, 4, 1, 0; 2014 XA_{39}, 2, 1, 0; 2014 YM_{8}, 2, 1, 0; 2014 YN_{10}, 2, 1, 0; 2014 YB_{11}, 2, 1, 0; 2014 YH_{20}, 4, 2, 3; 2014 YR_{20}, 2, 1, 0; 2014 YW_{27}, 2, 1, 0; 2014 YD_{28}, 2, 1, 0; 2014 YG_{28}, 2, 1, 0; 2014 YC_{32}, 2, 1, 0; 2015 AY_{1}, 2, 1, 0; 2015 AA_{4}, 2, 1, 0; 2015 AZ_{19}, 2, 1, 0; 2015 AV_{54}, 2, 1, 0; 2015 AL_{184}, 2, 1, 0; 2015 AL_{214}, 2, 1, 0; 2015 BW_{1}, 2, 1, 0; 2015 BW_{6}, 2, 1, 0; 2015 BU_{74}, 2, 1, 0; 2015 BF_{218}, 2, 1, 0; 2015 BJ_{278}, 2, 1, 0; 2015 BK_{278}, 2, 1, 0; 2015 DN_{176}, 2, 1, 0; 2015 EK_{13}, 4, 2, 11; 2015 EW_{13}, 2, 1, 0; 2015 EK_{24}, 4, 2, 3; 2015 EM_{24}, 2, 1, 0; 2015 FZ, 2, 1, 0; 2015 FV_{107}, 2, 1, 0; 2015 FC_{157}, 2, 1, 0; 2015 FJ_{311}, 2, 1, 0; 2015 FF_{337}, 2, 1, 0; 2015 FS_{338}, 2, 1, 0; 2015 FT_{342}, 4, 2, 29; 2015 GL_{1}, 4, 2, 29; 2015 GG_{21}, 4, 2, 6; 2015 GA_{28}, 2, 1, 0; 2015 HN_{56}, 2, 1, 0; 2015 HJ_{60}, 2, 1, 0; 2015 KH_{6}, 2, 1, 0; 2015 KS_{6}, 2, 1, 0; 2015 KW_{10}, 2, 1, 0; 2015 KS_{22}, 4, 2, 903; 2015 KJ_{36}, 2, 1, 0; 2015 KU_{71}, 2, 1, 0; 2015 KZ_{75}, 2, 1, 0; 2015 KR_{83}, 2, 1, 0; 2015 KM_{116}, 2, 1, 0; 2015 KO_{132}, 2, 1, 0; 2015 KD_{134}, 2, 1, 0; 2015 KL_{142}, 2, 1, 0; 2015 KV_{149}, 2, 1, 0; 2015 LO, 4, 1, 0; 2015 LC_{8}, 4, 2, 1003; 2015 LP_{14}, 2, 1, 0; 2015 LF_{15}, 2, 1, 0; 2015 LR_{22}, 2, 1, 0; 2015 LV_{22}, 2, 1, 0; 2015 LP_{24}, 2, 1, 0; 2015 LA_{30}, 2, 1, 0; 2015 LH_{30}, 2, 1, 0; 2015 LX_{30}, 4, 2, 27; 2015 LP_{39}, 2, 1, 0; 2015 MZ_{1}, 2, 1, 0; 2015 MP_{5}, 2, 1, 0; 2015 MZ_{5}, 2, 1, 0; 2015 MF_{8}, 4, 2, 976; 2015 MV_{9}, 2, 1, 0; 2015 MW_{10}, 2, 1, 0; 2015 MN_{13}, 2, 1, 0; 2015 MT_{14}, 2, 1, 0; 2015 MF_{24}, 2, 1, 0; 2015 MQ_{36}, 2, 1, 0; 2015 MH_{40}, 2, 1, 0; 2015 MD_{42}, 2, 1, 0; 2015 MM_{42}, 2, 1, 0; 2015 MO_{44}, 2, 1, 0; 2015 MH_{45}, 2, 1, 0; 2015 MJ_{57}, 2, 1, 0; 2015 MR_{58}, 2, 1, 0; 2015 MW_{58}, 4, 2, 6; 2015 MK_{59}, 2, 1, 0; 2015 MX_{60}, 4, 2, 27; 2015 MV_{66}, 2, 1, 0; 2015 MK_{73}, 2, 1, 0; 2015 MU_{74}, 2, 1, 0; 2015 MX_{76}, 2, 1, 0; 2015 ME_{79}, 2, 1, 0; 2015 MH_{81}, 2, 1, 0; 2015 MK_{82}, 2, 1,

0; 2015 MB_{83}, 2, 1, 0; 2015 MN_{83}, 2, 1, 0; 2015 MQ_{91}, 2, 1, 0; 2015 MH_{97}, 2, 1, 0; 2015 MB_{104}, 2, 1, 0; 2015 MK_{104}, 2, 1, 0; 2015 MP_{108}, 4, 2, 83; 2015 MR_{111}, 2, 1, 0; 2015 MG_{114}, 2, 1, 0; 2015 MS_{114}, 2, 1, 0; 2015 MS_{120}, 2, 1, 0; 2015 MK_{129}, 2, 1, 0; 2015 MM_{129}, 2, 1, 0; 2015 NR_4, 2, 1, 0; 2015 NC_7, 4, 2, 6; 2015 NE_7, 2, 1, 0; 2015 NY_7, 2, 1, 0; 2015 NT_{10}, 2, 1, 0; 2015 NW_{11}, 2, 1, 0; 2015 NJ_{16}, 2, 1, 0; 2015 NH_{17}, 2, 1, 0; 2015 ND_{18}, 4, 2, 116; 2015 NN_{19}, 2, 1, 0; 2015 NR_{22}, 2, 1, 0; 2015 NR_{24}, 2, 1, 0; 2015 OG_1, 2, 1, 0; 2015 OD_2, 2, 1, 0; 2015 OZ_2, 2, 1, 0; 2015 OW_9, 2, 1, 0; 2015 OY_{11}, 2, 1, 0; 2015 OF_{13}, 2, 1, 0; 2015 OG_{16}, 2, 1, 0; 2015 OZ_{17}, 2, 1, 0; 2015 OM_{31}, 2, 1, 0; 2015 OH_{37}, 2, 1, 0; 2015 OX_{38}, 2, 1, 0; 2015 OP_{40}, 2, 1, 0; 2015 OD_{46}, 2, 1, 0; 2015 OB_{50}, 2, 1, 0; 2015 OP_{65}, 6, 3, 980; 2015 OB_{67}, 4, 2, 447; 2015 OO_{68}, 2, 1, 0; 2015 OU_{74}, 4, 2, 446; 2015 OZ_{75}, 2, 1, 0; 2015 OD_{76}, 2, 1, 0; 2015 PQ_3, 2, 1, 0; 2015 PZ_4, 2, 1, 0; 2015 PY_8, 2, 1, 0; 2015 PT_{35}, 2, 1, 0; 2015 PC_{37}, 4, 2, 978; 2015 PB_{41}, 2, 1, 0; 2015 PO_{41}, 2, 1, 0; 2015 PW_{42}, 4, 2, 443; 2015 PN_{45}, 2, 1, 0; 2015 PZ_{45}, 2, 1, 0; 2015 PM_{47}, 2, 1, 0; 2015 PP_{54}, 2, 1, 0; 2015 PK_{159}, 2, 1, 0; 2015 PC_{230}, 2, 1, 0; 2015 PD_{304}, 2, 1, 0; (11064), 3, 1, 0; (20898), 3, 1, 0; (119368), 1, 1, 0; (145547), 3, 1, 0; (172421), 3, 1, 0; (306010), 3, 1, 0; (362162), 3, 1, 0; (392430), 3, 1, 0; (395424), 6, 2, 1443; (437529), 3, 1, 0; (438634), 2, 1, 0; (439799), 2, 1, 0; (439826), 2, 1, 0; *[640, 263, 0*, 1998/09/19–2009/10/17]*

654 Table Mountain Observatory, Wrightwood-PHMC

G. Carosi, Harvey Mudd College, 340 E. Foothill Blvd, Claremont, CA 91711, U.S.A. [gcarosi@orion.ac.hmc.edu]
Observer K. Hale
Measurer C. Zhai
1.0-m reflector + CCD
UCAC-4

2015 KW_{120}, 5, 1, 0; 2015 LF, 5, 1, 0; 2015 LK, 8, 2, 1; *[18, 3, 0*, 2015/05/28–2015/06/17]*

671 Stony Ridge

S. C. Brewster, 1659 N. Lake Ave., #4, Pasadena, CA 91104, U.S.A. [palostar@earthlink.net]
Observers S. C. Brewster, J. E. Rogers, P. Sable
0.76-m $f/6$ reflector + CCD
USNO-A2.0

2015 OM_{37}, 6, 2, 4; *[6, 1, 0*, 2004/09/12–2004/09/16]*

675 Palomar Mountain

A. Waszczak, California Institute of Technology, Pasadena, CA 91125, U.S.A. [waszczak@caltech.edu] (33)

(272273), 5, 1, 0; *[5, 1, 0*, 2014/03/25]*

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

2010 EJ_{101}, 2, 1, 0; 2015 GB_{24}, 2, 1, 0; 2015 PU_{276}, 3, 1, 0; *[7, 3, 0*, 2004/10/09–2008/10/09]*

688 Lowell Observatory, Anderson Mesa Station

M. W. Buie, Southwest Research Institute, 1050 Walnut St., Suite 300, Boulder, CO 80302, U.S.A. [buie@boulder.swri.edu] (1)
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)
Observer D. Avner
0.75-m $f/16$ reflector + CCD
2MASS, USNO-B1.0

{15} 2011 WU_{95}, 7, 1, 0; 2011 YL_{74}, 7, 1, 0; 2014 EK_{24}, 5, 1, 0; 2014 NE_3, 4, 1, 0; 2014 VG_2, 6, 1, 0; 2015 EZ, 13, 2, 1; 2015 FB_{34}, 10, 2, 1; 2015 FY_{284}, 8, 2, 1; 2015 GY, 5, 1, 0; 2015 GE_1, 7, 1, 0; 2015 GF_1, 6, 1, 0; 2015 GW_5, 7, 1, 0; 2015 GD_6, 6, 1, 0; 2015 GB_{14}, 5, 1, 0; 2015 GC_{14}, 6, 1, 0; 2015 GZ_{45}, 5, 1, 0; 2015 HX, 6, 1, 0; 2015 HY, 5, 1, 0; 2015 HZ, 6, 1, 0; 2015 HA_1, 11, 2, 9; 2015 HE_1, 6, 1, 0; 2015 HF_1, 5, 1, 0; 2015 HL_1, 5, 1, 0; 2015 HS_1, 6, 1, 0; 2015 HN_{170}, 6, 1, 0; 2015 HL_{171}, 7, 1, 0; 2015 HM_{171}, 6, 1, 0; (416186), 6, 1, 0; *[182, 28, 0*, 2015/04/11–2015/04/29]*

{1} 2015 BK_{278}, 2, 1, 0; *[2, 1, 0*, 1998/01/06]*

{5} 2014 UF_{181}, 2, 1, 0; *[2, 1, 0*, 2007/11/11]*

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 T. H. Bressi, J. V. Scotti, R. S. McMillan
0.9-m $f/3$ reflector + CCD
USNO-B1.0

1997 RH_{13}, 3, 1, 0; 1999 SZ_{20}, 3, 1, 0; 1999 TB_{72}, 3, 1, 0; 2000 MO_6, 3, 1, 0; 2000 QP_{110}, 6, 2, 2501; 2000 SO_{174}, 3, 1, 0; 2000 TG_2, 3, 1, 0; 2001 OK_{36}, 3, 1, 0; 2001 RH_{12}, 3, 1, 0; 2001 RJ_{36}, 3, 1, 0; 2001 RW_{59}, 6, 2, 5; 2001 SY_{34}, 3, 1, 0; 2001 SH_{127}, 3, 1, 0; 2001 SF_{229}, 3, 1, 0; 2001 SG_{318}, 3, 1, 0; 2001 VO_3, 3, 1, 0; 2001 WP_{91}, 3, 1, 0; 2001 YC_{16}, 3, 1, 0; 2002 EQ_{53}, 3, 1, 0; 2002 EM_{104}, 3, 1, 0; 2002 GE_{188}, 3, 1, 0; 2002 GK_{191}, 3, 1, 0; 2002 JB_{151}, 3, 1, 0; 2002 KO_{16}, 3, 1, 0; 2002 LE_{27}, 3, 1, 0; 2002 NM_{30}, 3, 1, 0; 2002 NM_{73}, 3, 1, 0; 2002 OZ_{17}, 6, 2, 5; 2002 PO_8, 3, 1, 0; 2002 PE_{112}, 3, 1, 0; 2002 PA_{114}, 3, 1, 0; 2002 PQ_{182}, 3, 1, 0; 2002 PQ_{194}, 6, 2, 5; 2002 QC_{47}, 3, 1, 0; 2002 QN_{66}, 6, 2, 8; 2002 QQ_{124}, 3, 1, 0; 2002 QC_{136}, 3, 1, 0; 2002 QL_{139}, 9, 2, 5; 2002 QH_{146}, 3, 1, 0; 2002 RB, 3, 1, 0; 2002 RX_6, 3, 1, 0; 2002 RM_{57}, 3, 1, 0; 2002 RJ_{79}, 3, 1, 0; 2002 RX_{99}, 3, 1, 0; 2002 RL_{147}, 3, 1, 0; 2002 RQ_{207}, 3, 1, 0; 2002 RL_{234}, 3, 1, 0; 2002 RP_{241}, 3, 1, 0; 2002 RE_{251}, 3, 1, 0; 2002 RN_{270}, 15, 5, 2358; 2002 RR_{286}, 3, 1, 0; 2002 RK_{294}, 3, 1, 0; 2002 SU_{47}, 12, 4, 2309; 2002 SL_{66}, 3, 1, 0; 2002 TP_4, 3, 1, 0; 2002 TC_{61}, 3, 1, 0; 2002 TW_{71}, 3, 1, 0; 2002 TL_{156}, 3, 1, 0; 2002 TE_{167}, 3, 1, 0; 2002 TV_{269}, 3, 1, 0; 2002 UW_{13}, 3, 1, 0; 2002 UR_{51}, 3, 1, 0; 2002 US_{52}, 3, 1, 0; 2003 GO_{56}, 6, 2, 3064; 2003 OJ_{17}, 3, 1, 0; 2003 SC_{107}, 3, 1, 0; 2003 SD_{127}, 3, 1, 0; 2003 SX_{156}, 6, 2, 2; 2003 SH_{224}, 3, 1, 0; 2003 SV_{274}, 3, 1, 0; 2003 SS_{332}, 3, 1, 0; 2003 UP_{178}, 3, 1, 0; 2003 UL_{254}, 3, 1, 0; 2003 UC_{338}, 3, 1, 0; 2003 VJ_4, 3, 1, 0; 2003 WF_{147}, 3, 1, 0; 2004 CQ_{27}, 3, 1, 0; 2004 EY, 3, 1, 0; 2004 LB_{10}, 3, 1, 0; 2004 ND_{31}, 3, 1, 0; 2004 OB, 3, 1, 0; 2004 OJ_{10}, 3, 1, 0; 2004 PB_{16}, 3, 1, 0; 2004 PE_{26}, 9, 2, 6038; 2004 PL_{32}, 9, 3, 2229; 2004 PO_{38}, 3, 1, 0; 2004 PJ_{87}, 3, 1, 0; 2004 PQ_{111}, 3, 1, 0; 2004 QK, 3, 1, 0; 2004 QS_{15}, 3, 1, 0; 2004 QE_{19}, 3, 1, 0; 2004 RX_9, 3, 1, 0; 2004 RP_{12}, 3, 1, 0; 2004 RY_{14}, 3, 1, 0; 2004 RF_{22}, 3, 1, 0; 2004 RM_{22}, 6, 2, 5; 2004 RN_{22}, 3, 1, 0; 2004 RL_{42}, 3, 1, 0; 2004 RJ_{46}, 3, 1, 0; 2004 RG_{94}, 3, 1, 0; 2004 RS_{99}, 3, 1, 0; 2004 RX_{101}, 3, 1, 0; 2004 RF_{164}, 3, 1, 0; 2004 RL_{169}, 3, 1, 0; 2004 RE_{179}, 3, 1, 0; 2004 RN_{182}, 3, 1, 0; 2004 RR_{204}, 3, 1, 0; 2004 SP_{41}, 3, 1, 0; 2004 SB_{51}, 6, 2, 1479; 2004 SR_{56}, 3, 1, 0; 2004 TE_{33}, 3, 1, 0; 2004 TU_{35}, 3, 1, 0; 2004 TR_{36}, 3, 1, 0; 2004 TJ_{49}, 3, 1, 0; 2004 TG_{51}, 3, 1, 0; 2004 TK_{60}, 3, 1, 0; 2004 TV_{96}, 3, 1, 0; 2004 TB_{108}, 3, 1, 0; 2004 TL_{200}, 3, 1, 0; 2004 TT_{200}, 6, 2, 12; 2004 TJ_{280}, 6, 2, 5; 2004 TH_{344}, 3, 1, 0; 2004 VC_{21}, 3, 1, 0; 2005 CN_{47}, 3, 1, 0; 2005 CS_{47}, 3, 1, 0; 2005 EA_{305}, 3, 1, 0; 2005 GO_{177}, 3, 1, 0; 2005 JH_{120}, 3, 1, 0; 2005 MN_{14}, 3, 1, 0; 2005 NO_{41}, 3, 1, 0; 2005 NZ_{104}, 6, 2, 2273; 2005 PF_{10}, 3, 1, 0; 2005 PO_{15}, 3, 1, 0; 2005 QS_{28}, 3, 1, 0; 2005 QD_{34}, 3, 1, 0; 2005 QG_{45}, 3, 1, 0; 2005 QG_{76}, 3, 1, 0; 2005 QL_{126}, 3, 1, 0; 2005 QL_{177}, 3, 1, 0; 2005 RC_{45}, 3, 1, 0; 2005 SW_{66}, 3, 1, 0; 2005 SG_{107}, 3, 1, 0; 2005 SH_{175}, 3, 1, 0; 2005 SZ_{178}, 3, 1, 0; 2005 SK_{181}, 21, 7, 2558; 2005 SK_{222}, 3, 1, 0; 2005 SS_{283}, 3, 1, 0; 2005 TH_{48}, 3, 1, 0; 2005 TB_{50}, 3, 1, 0; 2005 TP_{70}, 3, 1, 0; 2005 TC_{194}, 3, 1, 0; 2005 UE_{21}, 3, 1, 0; 2005 UX_{72}, 3, 1, 0; 2005 UC_{92}, 9, 3, 4504; 2005 UR_{106}, 3, 1, 0; 2005 UU_{127}, 3, 1, 0; 2005 UX_{194}, 3, 1, 0; 2005 UJ_{230}, 3, 1, 0; 2005 UX_{244}, 3, 1, 0; 2005 UD_{277}, 3, 1, 0; 2005 UF_{308}, 6, 2, 5; 2005 UM_{320}, 3, 1, 0; 2005 UG_{332}, 3, 1, 0; 2005 UL_{407}, 3, 1, 0; 2005 UU_{510}, 3, 1, 0; 2005 UM_{519}, 3, 1, 0; 2005 UV_{523}, 3, 1, 0; 2005 VY_{25}, 6, 2, 2; 2005 VS_{46}, 3, 1, 0; 2005 VW_{117}, 3, 1, 0; 2005 VA_{130}, 6, 2, 2; 2005 VF_{133}, 3, 1, 0; 2005 WL_{38}, 3, 1, 0; 2005 WJ_{82}, 3, 1, 0; 2005 WK_{99}, 3, 1, 0; 2005 WP_{112}, 6, 2, 5480; 2005 XL_{12}, 3, 1, 0; 2005 YV_{36}, 3, 1, 0; 2005 YX_{41}, 3, 1, 0; 2005 YJ_{81}, 3, 1, 0; 2005 YO_{125}, 6, 2, 5; 2005 YF_{132}, 6, 2, 5; 2005 YB_{145}, 3, 1, 0; 2005 YF_{146}, 9, 3, 3302; 2006 AR_{27}, 3, 1, 0; 2006 AO_{31}, 3, 1, 0; 2006 BR_{34}, 3, 1, 0; 2006 BK_{59}, 3, 1, 0; 2006 BT_{88}, 6, 2, 5; 2006 BV_{111}, 3, 1, 0; 2006 BL_{118}, 3, 1, 0; 2006 BN_{146}, 3, 1, 0; 2006 BF_{153}, 6, 1, 0; 2006 BS_{228}, 3, 1, 0; 2006 BQ_{254}, 3, 1, 0; 2006 BV_{255}, 3, 1, 0; 2006 DS_{16}, 3, 1, 0; 2006 GK_5, 3, 1, 0; 2006 HX_{69}, 3, 1, 0; 2006 KF_{21}, 3, 1, 0; 2006 KK_{52}, 6, 2, 20; 2006 KQ_{69}, 9, 2, 5; 2006 KQ_{70}, 3, 1, 0; 2006 PP_{17}, 3, 1, 0; 2006 QM_{83}, 3, 1, 0; 2006 QK_{118}, 3, 1, 0; 2006 QX_{122}, 3, 1, 0; 2006 QE_{125}, 3, 1, 0; 2006 QJ_{178}, 6, 2, 5573; 2006 QS_{185}, 6, 2, 1423; 2006 RZ_3, 3, 1, 0; 2006 RA_{16}, 3, 1, 0; 2006 SE_{55}, 3, 1, 0; 2006 SB_{59}, 3, 1, 0; 2006 SS_{147}, 3, 1, 0; 2006 SX_{175}, 3, 1, 0; 2006 SJ_{177}, 3, 1, 0; 2006 SM_{185}, 3, 1, 0; 2006 SJ_{198}, 3, 1, 0; 2006 SJ_{218}, 3, 1, 0; 2006 SU_{246}, 12, 4, 2803; 2006 SY_{256}, 3, 1, 0; 2006 SJ_{260}, 3, 1, 0; 2006 SR_{262}, 3, 1, 0; 2006 SK_{290}, 3, 1, 0; 2006 SU_{294}, 3, 1, 0; 2006 SR_{336}, 6, 2, 1384; 2006 SY_{347}, 6, 2, 3661; 2006 SW_{407}, 3, 1, 0; 2006 TC_{62}, 3, 1, 0; 2006 TP_{65}, 3, 1, 0; 2006 TJ_{67}, 3, 1, 0; 2006 TZ_{82}, 3, 1, 0; 2006 TG_{93}, 3, 1, 0; 2006 TX_{110}, 3, 1, 0; 2006 UV_{49}, 3, 1, 0; 2006 UQ_{168}, 3, 1, 0; 2006 UF_{221}, 3, 1, 0; 2006 VF_{129}, 6, 1, 0; 2006 WX_{69}, 3, 1, 0; 2006 XF_{41}, 6, 2, 8; 2006 XE_{51}, 3, 1, 0; 2006 XO_{59}, 3, 1, 0; 2007 AE_{14},

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695 Kitt Peak

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{21} 2015 FY_{46}, 3, 1, 0; *[3, 1, 0*, 2005/06/04]*

{23} 2008 TQ_{136}, 3, 1, 0; 2008 UB_{117}, 2, 1, 0; 2014 KL_{20}, 2, 1, 0; 2015 KW_{55}, 3, 1, 0; 2015 KM_{116}, 3, 1, 0; 2015 MQ_{85}, 2, 1, 0; 2015 MA_{98}, 3, 1, 0; 2015 MK_{129}, 2, 1, 0; 2015 NZ_3, 2, 1, 0; 2015 NB_{25}, 2, 1, 0; 2015 OH_{78}, 5, 2, 508; 2015 PT_{35}, 2, 1, 0; 2015 PP_{97}, 2, 1, 0; *[33, 13, 0*, 2004/10/10–2007/02/21]*

{1} 2005 SZ_{178}, 4, 2, 28; 2006 QJ_{178}, 2, 1, 0; 2006 SS_{19}, 3, 1, 0; 2006 SU_{246}, 2, 1, 0; 2007 RJ_{98}, 2, 1, 0; 2007 ST_{17}, 2, 1, 0; 2008 SA_{305}, 2, 1, 0; 2008 TP_{139}, 2, 1, 0; 2010 RF_{153}, 2, 1, 0; 2011 OL_{59}, 2, 1, 0; 2011 SF_{129}, 2, 1, 0; 2011 SL_{140}, 2, 1, 0; 2011 SX_{146}, 2, 1, 0; 2012 FT_{38}, 2, 1, 0; 2012 UW_{18}, 2, 1, 0; 2012 UY_{66}, 2, 1, 0; 2013 AF_{17}, 2, 1, 0; 2014 HW_{51}, 2, 1, 0; 2014 UM_6, 2, 1, 0; 2014 UW_{44}, 2, 1, 0; 2014 UB_{69}, 2, 1, 0; 2014 UY_{91}, 2, 1, 0; 2014 UC_{107}, 2, 1, 0; 2014 UX_{194}, 2, 1, 0; 2014 UY_{196}, 2, 1, 0; 2014 WF_{25}, 2, 1, 0; 2014 WL_{83}, 2, 1, 0; 2014 WX_{101}, 2, 1, 0; 2014 WZ_{131}, 2, 1, 0; 2014 WA_{305}, 2, 1, 0; 2014 XM_4, 2, 1, 0; 2014 YG_{24}, 2, 1, 0; 2014 YN_{41}, 2, 1, 0; 2015 BJ_6, 2, 1, 0; 2015 BS_7, 2, 1, 0; 2015 BH_{64}, 2, 1, 0; 2015 BZ_{86}, 2, 1, 0; 2015 BB_{278}, 2, 1, 0; 2015 DR_{222}, 2, 1, 0; 2015 EM_{24}, 2, 1, 0; 2015 FW_{95}, 2, 1, 0; 2015 KD_{29}, 2, 1, 0; 2015 KJ_{43}, 2, 1, 0; 2015 KS_{135}, 2, 1, 0; 2015 KN_{139}, 3, 1, 0; 2015 KH_{145}, 3, 1, 0; 2015 KX_{160}, 2, 1, 0; 2015 MV_{58}, 2, 1, 0; 2015 MY_{64}, 2, 1, 0; 2015 MD_{71}, 2, 1, 0; 2015 MH_{80}, 2, 1, 0; 2015 MG_{103}, 2, 1, 0; 2015 MT_{110}, 2, 1, 0; 2015 NE_8, 2, 1, 0; 2015 OE_{18}, 4, 2, 28; 2015 OG_{18}, 2, 1, 0; 2015 OX_{28}, 2, 1, 0; 2015 PO_7, 4, 2, 27; 2015 PN_{40}, 2, 1, 0; (439821), 2, 1, 0; *[129, 60, 0*, 2000/02/06–2015/04/15]*

699 Lowell Observatory-LONEOS

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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

2008 TS_{179}, 4, 1, 0; 2011 QP_{51}, 4, 1, 0; 2011 SJ_{232}, 4, 1, 0; 2011 UC_{30}, 4, 1, 0; 2011 UP_{182}, 8, 2, 23; 2013 RU_{74}, 4, 1, 0; 2014 UH_{68}, 4, 1, 0; 2014 UH_{209}, 4, 1, 0; 2014 UU_{213}, 4, 1, 0; 2014 WV_2, 4, 1, 0; 2014 WQ_{55}, 4, 1, 0; 2014 WQ_{121}, 4, 1, 0; 2014 WK_{350}, 4, 1, 0; 2014 WN_{408}, 8, 2, 31; 2014 WF_{434}, 8, 2, 31; 2014 WB_{467}, 4, 1, 0; 2014 WQ_{489}, 8, 2, 23; 2014 WF_{504}, 4, 1, 0; 2014 XZ_3, 4, 1, 0; 2014 XO_8, 8, 2, 23; 2014 XF_{10}, 4, 1, 0; 2014 XN_{18}, 4, 1, 0; 2014 XD_{22}, 4, 1, 0; 2014 XG_{38}, 4, 1, 0; 2014 YG_{17}, 4, 1, 0; 2014 YR_{31}, 4, 1, 0; 2014 YZ_{32}, 4, 1, 0; 2015 BQ_8, 4, 1, 0; 2015 DL_{114}, 4, 1, 0; 2015 DW_{142}, 4, 1, 0; 2015 FY_2, 4, 1, 0; 2015 FX_{24}, 4, 1, 0; 2015 FB_{115}, 4, 1, 0; 2015 HM_{181}, 4, 1, 0; 2015 KV_{149}, 4, 1, 0; 2015 LO, 4, 1, 0; 2015 LP_{24}, 4, 1, 0; 2015 LD_{31}, 8, 2, 1394; 2015 MY, 4, 1, 0; 2015 MR_4, 4, 1, 0; 2015 MD_9, 4, 1, 0; 2015 MO_{52}, 4, 1, 0; 2015 MY_{55}, 3, 1, 0; 2015 ML_{57}, 4, 1, 0; 2015 MP_{81}, 4, 1, 0; 2015 MZ_{109}, 8, 2, 59; 2015 MZ_{114}, 4, 1, 0; 2015 MX_{116}, 4, 1, 0; 2015 MA_{125}, 4, 1, 0; 2015 MQ_{127}, 4, 1, 0; 2015 NH, 4, 1, 0; 2015 NP_8, 4, 1, 0; 2015 NU_{18}, 4, 1, 0; 2015 OG_3, 4, 1, 0; 2015 OT_9, 4, 1, 0; 2015 OG_{13}, 4, 1, 0; 2015 OQ_{40}, 4, 1, 0; 2015 OT_{65}, 4, 1, 0; 2015 OH_{77}, 4, 1, 0; 2015 PM_3, 4, 1, 0; 2015 PS_3, 7, 2, 1279; 2015 PC_4, 4, 1, 0; 2015 PJ_{33}, 4, 1, 0; 2015 PY_{33}, 4, 1, 0; (439805), 4, 1, 0; (439826), 4, 1, 0; *[294, 66, 0*, 1999/09/05–2008/03/01]*

701 Junk Bond Observatory, Sierra Vista

D. Healy, Junk Bond Observatory, 6929 Madera Drive, Sierra Vista, AZ 85635, U.S.A. [healydave@cis-broadband.com]

0.40-m $f/5$ Schmidt-Cassegrain + CCD

GSC-ACT, USNO-A2.0, UCAC-2

2005 UQ_{475}, 2, 1, 0; *[2, 1, 0*, 2008/04/07]*

703 Catalina Sky Survey

S. M. Larson, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [slarson@lpl.arizona.edu]

Observers R. G. Matheny, R. A. Kowalski, J. A. Johnson, A. R. Gibbs

Measurers J. A. Johnson, R. A. Kowalski, S. M. Larson, R. G. Matheny, F. C. Shelly, E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, R. E. Hill

0.68-m Schmidt + CCD
UCAC-4

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(437753), 4, 1, 0; (437857), 3, 1, 0; (437859), 4, 1, 0; (437875), 3, 1, 0; (437895), 4, 1, 0; (437900), 4, 1, 0; (437901), 4, 1, 0; (437905), 1, 1, 0; (437917), 7, 2, 42; (437921), 4, 1, 0; (437926), 4, 1, 0; (437930), 4, 1, 0; (437931), 4, 1, 0; (437932), 1, 1, 0; (437951), 1, 1, 0; (437962), 1, 1, 0; (438009), 4, 1, 0; (438044), 4, 1, 0; (438048), 4, 1, 0; (438054), 4, 1, 0; (438057), 4, 1, 0; (438066), 4, 1, 0; (438070), 3, 1, 0; (438071), 4, 1, 0; (438080), 4, 1, 0; (438114), 3, 1, 0; (438117), 4, 1, 0; (438127), 4, 1, 0; (438135), 7, 2, 38; (438161), 4, 1, 0; (438166), 4, 1, 0; (438201), 1, 1, 0; (438266), 3, 1, 0; (438269), 4, 1, 0; (438278), 4, 1, 0; (438308), 2, 1, 0; (438325), 10, 1, 0; (438341), 4, 1, 0; (438354), 4, 1, 0; (438357), 4, 1, 0; (438371), 4, 1, 0; (438431), 4, 1, 0; (438480), 3, 1, 0; (438521), 4, 1, 0; (438525), 3, 1, 0; (438538), 8, 2, 37; (438549), 3, 1, 0; (438550), 8, 1, 0; (438565), 4, 1, 0; (438576), 4, 1, 0; (438578), 2, 1, 0; (438582), 3, 1, 0; (438618), 7, 2, 1; (438667), 4, 1, 0; (438689), 6, 1, 0; (438697), 3, 1, 0; (438711), 7, 2, 37; (438712), 4, 1, 0; (438733), 4, 1, 0; (438740), 3, 1, 0; (438768), 3, 1, 0; (438771), 3, 1, 0; (438776), 3, 1, 0; (438803), 4, 1, 0; (438814), 2, 1, 0; (438848), 3, 1, 0; (438864), 4, 1, 0; (438867), 2, 1, 0; (438957), 4, 1, 0; (438963), 4, 1, 0; (438978), 2, 1, 0; (438981), 4, 1, 0; (439034), 4, 1, 0; (439071), 8, 2, 3; (439092), 4, 1, 0; (439098), 4, 1, 0; (439103), 3, 1, 0; (439104), 4, 1, 0; (439105), 4, 1, 0; (439125), 2, 1, 0; (439138), 3, 1, 0; (439169), 4, 1, 0; (439182), 8, 2, 2; (439239), 4, 1, 0; (439248), 4, 1, 0; (439259), 4, 1, 0; (439265), 2, 1, 0; (439276), 4, 1, 0; (439309), 4, 1, 0; (439526), 3, 1, 0; (439562), 4, 1, 0; (439629), 16, 3, 4; (439630), 3, 1, 0; (439631), 4, 1, 0; (439645), 3, 1, 0; (439653), 4, 1, 0; (439684), 2, 1, 0; (439685), 3, 1, 0; (439710), 1, 1, 0; (439719), 3, 1, 0; (439729), 7, 2, 29; (439734), 3, 1, 0; (439741), 4, 1, 0; (439751), 11, 3, 3303; (439764), 3, 1, 0; (439802), 8, 2, 27; (439803), 4, 1, 0; (439805), 4, 1, 0; (439808), 7, 2, 47; (439814), 2, 1, 0; (439820), 7, 1, 0; (439822), 7, 2, 977; (439826), 8, 2, 1861; (439828), 8, 2, 4; (439829), 12, 2, 1831; *[86133, 21886, 31*, 1999/05/16–2015/08/22]*

705 Apache Point

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2015 OB_{73}, 3, 1, 0; *[3, 1, 0*, 2004/09/08]*

711 McDonald Observatory

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2.1-m reflector + CCD + focal reducer

USNO-B1.0

2008 VD_{64}, 3, 1, 0; 2014 WA_{202}, 2, 1, 0; 2015 KL_{122}, 3, 1, 0; 2015 LJ, 3, 1, 0; 2015 MX_{53}, 4, 1, 0; 2015 MF_{95}, 3, 1, 0; 2015 ML_{130}, 3, 1, 0; 2015 NK_3, 2, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NP_{13}, 3, 1, 0; 2015 NY_{13}, 3, 1, 0; 2015 OV, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 OF_{26}, 3, 1, 0; 2015 OL_{35}, 6, 2, 1; 2015 OS_{35}, 3, 1, 0; 2015 OZ_{77}, 3, 1, 0; 2015 PE, 3, 1, 0; 2015 PF, 3, 1, 0; 2015 PH, 6, 2, 1; 2015 PJ, 6, 2, 1; 2015 PK, 3, 1, 0; 2015 PL, 3, 1, 0; 2015 PM, 5, 2, 1; 2015 PT, 6, 2, 1; 2015 PX_{56}, 4, 2, 1; *[95, 27, 0*, 2014/10/01–2015/08/08]*

718 Tooele

P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt Lake City, UT 84111-1590, U.S.A. [paw@getbeehive.net]

0.35-m $f/5.5$ Schmidt-Cassegrain + CCD

UCAC-2

2015 NA_{14}, 4, 1, 0; 2015 QG, 3, 1, 0; *[7, 2, 0∗, 2015/07/16–2015/08/18]*

719 Etscorn Observatory
W. Ryan, MRO Program Office, New Mexico Tech, Socorro, NM 87801, U.S.A. [bryan@mailaps.org]
Observers A. Inada, A. Kumar, A. Rodriguez, A. Chen, H. Miao, D. Singh, E. M. Sendonaris, D. B. Srivastava, S. V. Tripathi, H. Cai, S. Pabla, J. Romagnoli, K. Chen, N. Liu, U. Basu, M. Furtado, M. Moncton, O. Colegrove, F. Herrera, E. Louden, M. Yu, T. Pan, C. Luo, S. Jung, Z. Belatache, A. Crowell, E. Graham, E. Meng, S. Rane, A. Anand, M. Lie, D. Stocks, M. E. Belota-Moreno, H. A. Cruz, P. Yao, M. E. Belota Moreno
0.36-m $f/11$ reflector + CCD
UCAC-4, UCAC-3, GSC, Tycho-2
(1685), 9, 5, 28; (4055), 13, 6, 25; (7889), 12, 5, 26; (54789), 12, 4, 25; (85989), 11, 5, 26; (348400), 11, 6, 22; *[68, 6, 0∗, 2015/06/24–2015/07/22]*

735 George Observatory, Needville
W. G. Dillon, 4703 Birkenhead Circle, Missouri City, TX 77459, U.S.A. [bdillon@houston.geoquest.slb.com]
Observers J. Dellinger, P. Garossino, D. Wells, W. G. Dillon
0.46-m $f/4.5$ Newtonian + CCD, 0.91-m $f/7.6$ Ritchey-Chrétien Cassegrain + CCD
USNO-A2.0, GSC-ACT
2007 VK_{93}, 3, 1, 0; 2015 EW_{13}, 3, 1, 0; 2015 OD_{76}, 3, 1, 0; *[9, 3, 0∗, 2003/03/07–2003/12/24]*

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)
D. Wittman, Bell Labs Room 1D-456, 700 Mountain Avenue, Murray Hill, NJ 07974, U.S.A. [dwittman@physics.bell-labs.com] (3)
L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu] (15)
I. Griffin, Ramsden Wood Road, Walsden, Lancashire OL14 7UD, England [i.griffin@msim.org.uk] (20)
R. Holmes, 7168 NCR 2750E, Ashmore, IL 61912, U.S.A. [ari@astro-research.org] (32)
Observers T. Linder, R. Holmes
0.41-m $f/11$ Ritchey-Chrétien + CCD
UCAC-3
{15} 2008 YG_{37}, 2, 1, 0; 2014 DW_{29}, 3, 2, 1; 2014 UW_{44}, 3, 2, 1; 2014 UC_{67}, 2, 1, 0; 2014 UK_{157}, 2, 1, 0; 2014 UZ_{200}, 2, 1, 0; 2015 FE_{57}, 2, 1, 0; 2015 KN_{70}, 2, 1, 0; 2015 OW_{32}, 2, 1, 0; *[20, 9, 0∗, 2005/08/08–2007/09/09]*

{20} 2014 WP_{321}, 2, 1, 0; *[2, 1, 0∗, 2003/07/25]*

{1} 2004 TJ_{280}, 2, 1, 0; 2005 UX_{177}, 2, 1, 0; 2007 DV_{89}, 2, 1, 0; 2007 ES_{21}, 2, 1, 0; 2008 OW_{21}, 2, 1, 0; 2010 TX_{160}, 2, 1, 0; 2010 VX_{93}, 2, 1, 0; 2010 VR_{189}, 2, 1, 0; 2011 SZ_{241}, 2, 1, 0; 2011 SD_{260}, 2, 1, 0; 2011 VX_{7}, 2, 1, 0; 2011 WX_{34}, 2, 1, 0; 2012 FT_{38}, 2, 1, 0; 2012 UQ_{110}, 2, 1, 0; 2012 VG_{1}, 2, 1, 0; 2013 AF_{17}, 2, 1, 0; 2013 CV_{67}, 2, 1, 0; 2013 DH_{10}, 2, 1, 0; 2014 DM_{59}, 2, 1, 0; 2014 HR_{34}, 2, 1, 0; 2014 UD_{81}, 2, 1, 0; 2014 WS_{51}, 2, 1, 0; 2014 WC_{69}, 2, 1, 0; 2014 WH_{82}, 2, 1, 0; 2014 WF_{87}, 2, 1, 0; 2014 WQ_{107}, 2, 1, 0; 2014 WB_{241}, 2, 1, 0; 2014 WD_{302}, 2, 1, 0; 2014 WT_{455}, 2, 1, 0; 2014 WZ_{485}, 2, 1, 0; 2014 YB_{11}, 2, 1, 0; 2015 BH_{64}, 2, 1, 0; 2015 FK_{110}, 2, 1, 0; 2015 FQ_{204}, 2, 1, 0; 2015 KO_{90}, 2, 1, 0; 2015 KZ_{131}, 2, 1, 0; 2015 KS_{135}, 2, 1, 0; 2015 LG_{33}, 2, 1, 0; 2015 MZ_{1}, 2, 1, 0; 2015 MY_{7}, 2, 1, 0; 2015 MF_{38}, 2, 1, 0; 2015 ML_{85}, 2, 1, 0; 2015 ME_{103}, 2, 1, 0; 2015 MZ_{112}, 2, 1, 0; 2015 MY_{125}, 2, 1, 0; 2015 NC_{18}, 2, 1, 0; 2015 NB_{24}, 2, 1, 0; 2015 OD_{2}, 2, 1, 0; 2015 OG_{16}, 2, 1, 0; 2015 OG_{18}, 2, 1, 0; 2015 OQ_{40}, 2, 1, 0; 2015 OT_{65}, 2, 1, 0; 2015 PS_{38}, 2, 1, 0; 2015 PH_{39}, 2, 1, 0; *[108, 54, 0∗, 2000/07/29–2006/04/26]*

{3} 2015 MC_{8}, 12, 2, 2; 2015 OD_{16}, 2, 1, 0; *[14, 2, 0∗, 1997/06/06–2003/04/02]*

{32} 1999 XM_{141}, 16, 4, 28; 2000 XH_{47}, 5, 1, 0; 2001 UZ_{16}, 3, 1, 0; 2002 RB, 8, 2, 7; 2004 MQ_{1}, 3, 1, 0; 2004 MW_{2}, 6, 2, 1; 2005 TK_{3}, 5, 1, 0; 2006 AW, 8, 2, 21; 2006 AR_{2}, 3, 1, 0; 2006 KL_{89}, 4, 1, 0; 2006 MD_{12}, 3, 1, 0; 2006 OF_{5}, 3, 1, 0; 2007 SP_{6}, 3, 1, 0; 2008 GX, 3, 1, 0; 2008 MG_{1}, 5, 1, 0; 2009 QO_{5}, 5, 1, 0; 2010 LR_{68}, 3, 1, 0; 2010 PD_{1}, 3, 1, 0; 2011 CZ_{4}, 3, 1, 0; 2011 MD_{11}, 3, 1, 0; 2011 NP, 11, 3, 20; 2011 XC, 3, 1, 0; 2012 AU_{10}, 5, 1, 0; 2012 MM_{11}, 3, 1, 0; 2012 PG_{6}, 3, 1, 0; 2012 QF_{49}, 3, 1, 0; 2012 RF_{15}, 6, 2, 1; 2012 TM_{139}, 5, 1, 0; 2012 XS_{134}, 8, 2, 18; 2013 WT_{67}, 13, 3, 23; 2014 OE_{338}, 3, 1, 0; 2014 WJ_{70}, 12, 4, 19; 2014 WG_{365}, 3, 1, 0; 2014 YP_{15}, 4, 1, 0; 2015 CW_{13}, 3, 1, 0; 2015 DO_{155}, 9, 3, 32; 2015 DP_{155}, 5, 1, 0; 2015 DV_{180}, 3, 1, 0; 2015 DD_{198}, 3, 1, 0; 2015 ES_{5}, 12, 4, 19; 2015 EK_{7}, 2, 1, 0; 2015 FD_{134}, 9, 3, 13; 2015 FD_{341}, 3, 1, 0; 2015 GF, 12, 3, 22; 2015 HM_{10}, 5, 1, 0; 2015 JQ_{1}, 6, 2, 11; 2015 JY_{1}, 5, 1, 0; 2015 JJ_{2}, 16, 3, 6; 2015 KS_{18}, 12, 4, 16; 2015 KJ_{57}, 12, 4, 14; 2015 KK_{122}, 3, 1, 0; 2015 KR_{154}, 16, 5, 17; 2015 KV_{154}, 3, 1, 0; 2015 KL_{157}, 19, 5, 25; 2015 LF_{14}, 6, 2, 1; 2015 LH_{14}, 23, 5, 46; 2015 LC_{21}, 26, 5, 6; 2015 LN_{21}, 12, 4, 24; 2015 LQ_{21}, 3, 1, 0; 2015 LK_{24}, 3, 1, 0; 2015 LU_{24}, 6, 2, 16; 2015 LV_{24}, 3, 1, 0; 2015 LB_{40}, 20, 6, 33; 2015 MC, 5, 1, 0; 2015 MO_{11}, 32, 8, 33; 2015 MN_{44}, 19, 5, 7; 2015 MX_{53}, 23, 6, 32; 2015 MY_{53}, 3, 1, 0; 2015 ME_{54}, 18, 6, 7; 2015 MS_{59}, 19, 4, 33; 2015 MT_{59}, 10, 2, 15; 2015 MU_{59}, 13, 3, 32; 2015 MF_{60}, 17, 5, 7; 2015 MN_{66}, 12, 4, 15; 2015 MO_{66}, 15, 5, 15; 2015 MP_{66}, 6, 2, 5; 2015 MO_{89}, 12, 4, 5; 2015 MF_{95}, 22, 5, 47; 2015 MT_{96}, 17, 5, 46; 2015 MR_{101}, 6, 2, 3; 2015 MQ_{116}, 3, 1, 0; 2015 MR_{116}, 3, 1, 0; 2015 MJ_{130}, 12, 4, 33; 2015 MK_{130}, 3, 1, 0; 2015 ML_{130}, 6, 2, 1; 2015 MO_{130}, 11, 3, 32; 2015 MW_{130}, 3, 1, 0; 2015 NJ, 3, 1, 0; 2015 NJ_{3}, 3, 1, 0; 2015 NK_{3}, 3, 1, 0; 2015 NP_{13}, 13, 3, 32; 2015 NS_{13}, 11, 3, 9; 2015 NV_{13}, 6, 2, 5; 2015 NY_{13}, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 11, 3, 3; 2015 NB_{14}, 24, 6, 33; 2015 NF_{24}, 3, 1, 0; 2015 NJ_{24}, 3, 1, 0; 2015 OF, 3, 1, 0; 2015 OH, 15, 3, 5; 2015 OM, 16, 4, 4; 2015 OO, 9, 3, 4; 2015 OV, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 ON_{21}, 3, 1, 0; 2015 OC_{22}, 11, 3, 13; 2015 OD_{22}, 4, 1, 0; 2015 OH_{22}, 18, 4, 28; 2015 OJ_{22}, 3, 1, 0; 2015 OZ_{25}, 3, 1, 0; 2015 OA_{26}, 7, 2, 3; 2015 OC_{26}, 3, 1, 0; 2015 OD_{26}, 3, 1, 0; 2015 OE_{26}, 3, 1, 0; 2015 OF_{26}, 3, 1, 0; 2015 OF_{35}, 8, 2, 1; 2015 OG_{35}, 8, 2, 2; 2015 OH_{35}, 3, 1, 0; 2015 OJ_{35}, 3, 1, 0; 2015 OK_{35}, 3, 1, 0; 2015 OL_{35}, 9, 3, 25; 2015 OQ_{35}, 3, 1, 0; 2015 OB_{78}, 3, 1, 0; 2015 OR_{78}, 8, 2, 23; 2015 OS_{78}, 11, 3, 23; 2015 OT_{78}, 5, 1, 0; 2015 OU_{78}, 6, 2, 23; 2015 OV_{78}, 3, 1, 0; 2015 OW_{78}, 6, 2, 6; 2015 OX_{78}, 3, 1, 0; 2015 OY_{78}, 3, 1, 0; 2015 OZ_{78}, 5, 1, 0; 2015 OB_{79}, 3, 1, 0; 2015 OO_{79}, 3, 1, 0; 2015 OR_{79}, 3, 1, 0; 2015 PD, 10, 1, 0; 2015 PL, 10, 2, 1; 2015 PM, 5, 1, 0; 2015 PQ, 7, 2, 1; 2015 PR, 5, 1, 0; 2015 PS, 5, 1, 0; 2015 PQ_{56}, 5, 1, 0; 2015 PZ_{56}, 6, 2, 1; 2015 PM_{57}, 8, 2, 1; 2015 PR_{227}, 4, 1, 0; 2015 PT_{227}, 10, 2, 1; 2015 PV_{227}, 6, 2, 1; 2015 PH_{228}, 3, 1, 0; 2015 PJ_{228}, 3, 1, 0; 2015 PK_{228}, 3, 1, 0; 2015 PL_{228}, 3, 1, 0; 2015 PR_{228}, 3, 1, 0; 2015 PT_{228}, 3, 1, 0; 2015 PU_{228}, 3, 1, 0; 2015 PH_{229}, 3, 1, 0; 2015 PL_{291}, 6, 2, 3; 2015 PM_{291}, 6, 2, 3; 2015 PN_{291}, 3, 1, 0; 2015 PQ_{291}, 6, 2, 4; 2015 PS_{291}, 6, 2, 4; 2015 QA, 3, 1, 0; 2015 QB, 3, 1, 0; 2015 QC, 6, 2, 1; 2015 QD, 3, 1, 0; 2015 QE, 3, 1, 0; 2015 QG, 7, 1, 0; 2015 QH, 3, 1, 0; (1566), 5, 1, 0; (4341), 3, 1, 0; (4769), 9, 2, 1; (4953), 5, 1, 0; (4954), 5, 1, 0; (5645), 5, 1, 0; (23606), 5, 1, 0; (65733), 5, 1, 0; (67367), 10, 2, 2; (68216), 14, 3, 28; (68348), 5, 1, 0; (86829), 5, 1, 0; (90416), 6, 2, 1; (137175), 3, 1, 0; (152754), 3, 1, 0; (162723), 5, 1, 0; (162882), 9, 1, 0; (163902), 6, 2, 2; (171486), 3, 1, 0; (200754), 10, 2, 2; (203015), 10, 2, 8; (209924), 3, 1, 0; (225900), 5, 1, 0; (232691), 6, 2, 1; (242643), 5, 1, 0; (267136), 5, 1, 0; (317643), 14, 3, 2; (329770), 3, 1, 0; (401857), 12, 3, 27; (408752), 9, 2, 6; (416680), 3, 1, 0; (418135), 3, 1, 0; (420048), 8, 2, 2; (423321), 5, 1, 0; (424089), 4, 2, 7; (425713), 5, 1, 0; (429733), 3, 1, 0; (429746), 13, 3, 30; (430440), 13, 5, 30; (431776), 4, 1, 0; (436671), 5, 1, 0; (436775), 4, 1, 0; (437965), 3, 1, 0; (438017), 3, 1, 0; (438429), 5, 1, 0; (438661), 20, 4, 10; *[1476, 214, 0∗, 2015/06/21–2015/08/19]*

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{20} 2011 WV_{152}, 5, 1, 0; *[5, 1, 0∗, 2006/08/23]*

{4} 2015 MC_{120}, 6, 2, 1; *[6, 1, 0∗, 1993/10/20–1993/10/21]*

{8} 2015 LJ_{12}, 1, 1, 0; 2015 OL_{4}, 1, 1, 0; *[2, 2, 0∗, 1993/03/19–1995/09/01]*

{9} 2013 BS_{44}, 3, 1, 0; *[3, 1, 0*, 2005/02/17]*

{35} 2015 PD_{12}, 7, 1, 0; *[7, 1, 0*, 2013/02/16]*

{32} 2015 KH_{145}, 7, 1, 0; *[7, 1, 0*, 2008/03/13]*

821 Córdoba-Bosque Alegre
C. Colazo, Observatorio Bosque Alegre, 851 Laprida Street, Córdoba-Capital, Córdoba, Argentina [gatogristanti@gmail.com]
Observers R. Nolte, R. Artola, N. Muguiro, C. Colazo
1.54-m f/4.8 reflector + CCD
UCAC-4
2015 NX_{13}, 3, 1, 0; 2015 NY_{13}, 3, 1, 0; 2015 NY_{22}, 3, 1, 0; 2015 OH_{35}, 3, 1, 0; *[12, 4, 0*, 2015/07/15–2015/07/27]*

910 Caussols-ODAS
A. Maury, Observatoire de la Côte d'Azur, B.P. 229, F-06304 Nice, France [maury@obs-azur.fr]
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
2010 JG_{78}, 3, 1, 0; 2011 SX_{274}, 3, 1, 0; 2014 VW_6, 3, 1, 0; 2015 OD_{76}, 3, 1, 0; *[12, 4, 0*, 1997/09/03–1998/10/01]*

926 Tenagra II Observatory
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Observers M. Schwartz, P. R. Holvorcem
0.41-m f/3.75 astrograph + CCD, 0.81-m f/7 Ritchey-Chrétien + CCD
USNO-B1.0
2005 SG_{107}, 3, 1, 0; 2006 BN_{31}, 3, 1, 0; 2006 BG_{235}, 3, 1, 0; 2006 QS_{23}, 2, 1, 0; 2007 VK_{93}, 3, 1, 0; 2007 VU_{165}, 3, 1, 0; 2007 WU_3, 9, 2, 1; 2008 YG_{37}, 3, 1, 0; 2008 YW_{38}, 3, 1, 0; 2009 LK, 3, 1, 0; 2012 XN_{61}, 3, 1, 0; 2014 JK_{37}, 3, 1, 0; 2014 KA_{31}, 3, 1, 0; 2014 QK_{362}, 12, 2, 1; 2014 UO_{216}, 3, 1, 0; 2014 WA_{305}, 3, 1, 0; 2014 WB_{332}, 3, 1, 0; 2014 WE_{396}, 3, 1, 0; 2014 WD_{478}, 3, 1, 0; 2014 WS_{484}, 3, 1, 0; 2014 XF_{10}, 3, 1, 0; 2014 XV_{36}, 3, 1, 0; 2014 XA_{39}, 3, 1, 0; 2014 XD_{39}, 3, 1, 0; 2015 BP_{119}, 5, 1, 0; 2015 DD_{220}, 3, 1, 0; 2015 FB_{115}, 6, 2, 43; 2015 FD_{172}, 3, 1, 0; 2015 GM_{34}, 3, 1, 0; 2015 GK_{43}, 3, 1, 0; 2015 HH_3, 3, 1, 0; 2015 HM_{10}, 17, 2, 1; 2015 JH_2, 3, 1, 0; 2015 KP_4, 3, 1, 0; 2015 KG_{59}, 3, 1, 0; 2015 KO_{86}, 3, 1, 0; 2015 KJ_{157}, 3, 1, 0; 2015 LG_2, 5, 2, 1; 2015 LH_{24}, 3, 1, 0; 2015 LJ_{24}, 3, 1, 0; 2015 LP_{39}, 3, 1, 0; 2015 MA_5, 6, 2, 19; 2015 MP_5, 3, 1, 0; 2015 MK_7, 3, 1, 0; 2015 MO_{15}, 3, 1, 0; 2015 MJ_{46}, 3, 1, 0; 2015 MY_{55}, 3, 1, 0; 2015 MV_{58}, 3, 1, 0; 2015 MU_{59}, 3, 1, 0; 2015 MA_{73}, 3, 1, 0; 2015 MW_{76}, 3, 1, 0; 2015 MU_{91}, 3, 1, 0; 2015 MF_{95}, 6, 2, 1; 2015 MX_{97}, 3, 1, 0; 2015 MP_{109}, 3, 1, 0; 2015 MS_{114}, 3, 1, 0; 2015 ME_{116}, 3, 1, 0; 2015 MQ_{116}, 5, 2, 1; 2015 MJ_{127}, 3, 1, 0; 2015 MM_{130}, 3, 1, 0; 2015 MN_{130}, 3, 1, 0; 2015 NF, 6, 1, 0; 2015 NR_2, 5, 1, 0; 2015 NS_2, 3, 1, 0; 2015 NU_2, 3, 1, 0; 2015 NV_2, 3, 1, 0; 2015 NZ_2, 3, 1, 0; 2015 NB_3, 3, 1, 0; 2015 NC_3, 6, 1, 0; 2015 ND_3, 3, 1, 0; 2015 NE_3, 5, 2, 1; 2015 NF_3, 3, 1, 0; 2015 NK_3, 2, 1, 0; 2015 NE_8, 3, 1, 0; 2015 NL_{11}, 3, 1, 0; 2015 NQ_{23}, 3, 1, 0; 2015 NM_{24}, 3, 1, 0; 2015 NN_{24}, 3, 1, 0; 2015 NT_{24}, 3, 1, 0; 2015 NG_{25}, 3, 1, 0; 2015 NP_{25}, 3, 1, 0; 2015 NQ_{25}, 3, 1, 0; 2015 OC_5, 3, 1, 0; 2015 OO_{23}, 3, 1, 0; 2015 OT_{23}, 3, 1, 0; 2015 OU_{24}, 3, 1, 0; 2015 OK_{26}, 3, 1, 0; 2015 OM_{63}, 3, 1, 0; 2015 OQ_{73}, 3, 1, 0; 2015 PA_{31}, 3, 1, 0; 2015 PB_{53}, 3, 1, 0; 2015 PK_{144}, 3, 1, 0; (2279), 3, 1, 0; (14576), 3, 1, 0; (14908), 3, 1, 0; (22859), 3, 1, 0; (27874), 3, 1, 0; (28150), 3, 1, 0; (31763), 3, 1, 0; (32647), 3, 1, 0; (34466), 3, 1, 0; (37987), 3, 1, 0; (40324), 3, 1, 0; (47636), 3, 1, 0; (48076), 3, 1, 0; (49687), 3, 1, 0; (59024), 3, 1, 0; (59793), 3, 1, 0; (60942), 3, 1, 0; (61314), 3, 1, 0; (68265), 3, 1, 0; (81456), 3, 1, 0; (86336), 3, 1, 0; (87506), 3, 1, 0; (90284), 3, 1, 0; (100009), 3, 1, 0; (103482), 3, 1, 0; (104445), 3, 1, 0; (125798), 3, 1, 0; (135774), 3, 1, 0; (139037), 3, 1, 0; (145891), 3, 1, 0; (164676), 3, 1, 0; (168661), 3, 1, 0; (187960), 3, 1, 0; (191983), 3, 1, 0; (200369), 3, 1, 0; (239379), 3, 1, 0; (242574), 3, 1, 0; (244366), 3, 1, 0; (248398), 3, 1, 0; (249099), 3, 1, 0; (269983), 2, 1, 0; (339711), 3, 1, 0; (355555), 3, 1, 0; (356291), 3, 1, 0; (397009), 3, 1, 0; (436556), 3, 1, 0; (438521), 3, 1, 0; *[468, 139, 0*, 2010/03/10–2015/07/09]*

932 John J. McCarthy Obs., New Milford
M. Robson, P.O. Box 1144, New Milford, CT 06776, U.S.A. [mail@mccarthyobservatory.org]
Observers M. Polansky, L. Gagnon
0.4-m f/5 Schmidt-Cassegrain + CCD
UCAC-4
(206378), 6, 1, 0; *[6, 1, 0*, 2015/08/27]*

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)
Observers J. Font, O. Vaduvescu, A. Ferragamo, D. Jones
Measurers O. Vaduvescu, L. Hudin, T. Mocnik, R. Cornea, I. Ordonez-Etxeberria, A. Sonka, A. Moloceniuc, S. Adrian, M. Diaz Alfaro, F. Char
2.5-m f/3.3 reflector + CCD
PPMXL, UCAC-4
{23} 1999 DB_2, 9, 1, 0; 2001 VL_{22}, 9, 2, 2; 2002 VB_{15}, 4, 1, 0; 2003 WS_{192}, 4, 1, 0; 2005 LV_3, 11, 1, 0; 2005 QL_{76}, 8, 2, 1; 2005 SV_{126}, 3, 1, 0; 2006 AQ_{42}, 6, 1, 0; 2006 BA_6, 10, 2, 2; 2006 OV_5, 3, 1, 0; 2006 QF_{34}, 6, 1, 0; 2006 SS_{19}, 5, 1, 0; 2006 SH_{81}, 6, 1, 0; 2006 SE_{411}, 12, 1, 0; 2006 UP_{224}, 4, 1, 0; 2007 RF_{27}, 11, 2, 1; 2007 VL_{63}, 12, 2, 1; 2008 CH_{208}, 3, 1, 0; 2008 UB_{283}, 6, 1, 0; 2009 WH_{82}, 5, 1, 0; 2010 RY_{28}, 6, 1, 0; 2011 AZ_{11}, 4, 1, 0; 2011 CG_2, 3, 1, 0; 2011 KO_{17}, 6, 1, 0; 2011 QL_{51}, 5, 1, 0; 2011 SO_{26}, 5, 1, 0; 2011 UA_{131}, 4, 1, 0; 2011 UE_{155}, 8, 1, 0; 2011 UJ_{166}, 6, 1, 0; 2011 UJ_{352}, 6, 1, 0; 2012 CE_2, 6, 1, 0; 2012 EL_5, 4, 1, 0; 2012 SL_8, 5, 1, 0; 2012 XC_{55}, 5, 1, 0; 2013 AT_{100}, 14, 2, 3; 2013 AW_{160}, 7, 1, 0; 2013 BO_{74}, 6, 1, 0; 2013 CJ_{46}, 3, 1, 0; 2013 HT_1, 6, 1, 0; 2013 NJ_{15}, 4, 1, 0; 2013 RX_{80}, 4, 1, 0; 2013 VM_4, 4, 1, 0; 2013 XH_4, 5, 1, 0; 2014 EF_{24}, 12, 2, 1; 2014 JQ_{77}, 6, 1, 0; 2014 MJ_{43}, 6, 1, 0; 2014 OH_{167}, 4, 1, 0; 2014 UO_{216}, 5, 1, 0; 2014 WS_{267}, 6, 1, 0; 2014 WE_{365}, 7, 1, 0; 2014 XT_{14}, 6, 1, 0; 2014 YB_{30}, 6, 1, 0; 2015 OL_{71}, 5, 1, 0; 2015 PQ_{31}, 12, 1, 0; 2015 PH_{94}, 6, 1, 0; 2015 QT_4 *, 6, 1, 0; (2071), 12, 1, 0; (16679), 2, 1, 0; (31108), 6, 1, 0; (40240), 6, 1, 0; (40509), 6, 1, 0; (42868), 4, 1, 0; (47529), 8, 1, 0; (48081), 8, 1, 0; (48409), 6, 1, 0; (50060), 6, 1, 0; (51576), 4, 1, 0; (62362), 6, 1, 0; (64135), 4, 1, 0; (67641), 12, 1, 0; (68349), 4, 1, 0; (73565), 6, 1, 0; (75652), 6, 1, 0; (76281), 6, 1, 0; (78709), 6, 1, 0; (79843), 4, 1, 0; (84223), 6, 1, 0; (86074), 12, 1, 0; (86514), 6, 1, 0; (91786), 6, 1, 0; (92352), 8, 1, 0; (92643), 5, 1, 0; (94294), 4, 1, 0; (96399), 6, 1, 0; (98907), 6, 1, 0; (98984), 4, 1, 0; (99443), 8, 1, 0; (103879), 4, 1, 0; (104207), 6, 1, 0; (105505), 6, 1, 0; (109322), 4, 1, 0; (111760), 11, 1, 0; (113719), 6, 1, 0; (120554), 5, 1, 0; (120624), 6, 1, 0; (121462), 6, 1, 0; (123910), 8, 1, 0; (129847), 6, 1, 0; (130700), 6, 1, 0; (131904), 6, 1, 0; (132092), 6, 1, 0; (132147), 8, 1, 0; (133363), 4, 1, 0; (134822), 6, 1, 0; (137901), 6, 1, 0; (141348), 6, 1, 0; (144148), 4, 1, 0; (145544), 6, 1, 0; (146529), 8, 1, 0; (147881), 12, 1, 0; (152714), 8, 1, 0; (152844), 6, 1, 0; (153324), 6, 1, 0; (153328), 6, 1, 0; (154270), 12, 1, 0; (157018), 6, 1, 0; (157516), 8, 1, 0; (158141), 6, 1, 0; (161784), 12, 2, 1; (163764), 6, 1, 0; (166227), 6, 1, 0; (171599), 6, 1, 0; (173732), 4, 1, 0; (177456), 6, 1, 0; (178991), 6, 1, 0; (180777), 8, 1, 0; (181241), 6, 1, 0; (184120), 6, 1, 0; (184862), 6, 1, 0; (188243), 6, 1, 0; (193899), 6, 1, 0; (193927), 8, 1, 0; (193946), 6, 1, 0; (205823), 6, 1, 0; (218523), 6, 1, 0; (220782), 8, 1, 0; (235016), 4, 1, 0; (239489), 5, 1, 0; (248275), 4, 1, 0; (248791), 6, 1, 0; (250225), 6, 1, 0; (251161), 6, 1, 0; (252591), 6, 1, 0; (252660), 6, 1, 0; (254776), 6, 1, 0; (255514), 10, 2, 2; (255794), 6, 1, 0; (256990), 6, 1, 0; (258044), 8, 1, 0; (258142), 6, 1, 0; (261765), 6, 1, 0; (284014), 12, 1, 0; (285014), 5, 1, 0; (290959), 8, 1, 0; (292098), 12, 1, 0; (292233), 6, 1, 0; (292824), 6, 1, 0; (294004), 6, 1, 0; (295380), 6, 1, 0; (295418), 6, 1, 0; (309774), 6, 1, 0; (311127), 6, 1, 0; (315487), 6, 1, 0; (318283), 6, 1, 0; (320133), 4, 1, 0; (323614), 6, 1, 0; (324196), 6, 1, 0; (327085), 10, 2, 2; (353910), 6, 1, 0; (354046), 8, 1, 0; (354379), 6, 1, 0; (358343), 6, 1, 0; (358356), 6, 1, 0; (359323), 6, 1, 0; (359434), 6, 1, 0; (360183), 5, 1, 0; (363963), 8, 1, 0; (364211), 6, 1, 0; (365649), 6, 1, 0; (388593), 4, 1, 0; (392507), 6, 1, 0; (393510), 4, 1, 0; (393792), 12, 1, 0; (394803), 8, 1, 0; (397730), 6, 1, 0; (399921), 6, 1, 0; (403440), 6, 1, 0; (403458), 10, 2, 2; (406067), 5, 1, 0; (407108), 8, 1, 0; (408359), 8, 1, 0; (408689), 4, 1, 0; (410036), 6, 1, 0; (411894), 4, 1, 0; (412743), 6, 1, 0; (412835), 6, 1, 0; (438245), 6, 1, 0; *[1257, 197, 1*, 2013/08/01–2015/08/24]*

{3} 2015 DE_{137}, 3, 1, 0; 2015 MR_{67}, 3, 1, 0; 2015 OU_{23}, 3, 1, 0; *[9, 3, 0*, 1998/11/18–2002/11/05]*

954 Teide Observatory
R. Casas, A. A. Sabadell P.O. Box 50, E-08200 Sabadell, Spain [rcr@ot.iac.es]

Observers J. M. Bosch, M. Serra-Ricart, J. C. Casado, S. Bossa, E. Sierra, M. Rodríguez, C. Labrandero, A. Blanco
Measurers J. M. Bosch, M. Rodríguez, D. Ariza, O. Velasco, L. Belm, D. Farré, M. Pino, M. von Wietersheim-Kramsta, X. Roch
0.80-m f/11.3 Cassegrain + CCD
UCAC-4

2005 SK_{181}, 9, 3, 3; 2007 VX_{223}, 3, 1, 0; 2008 TN_4, 3, 1, 0; 2011 BR_{59}, 3, 1, 0; 2011 HD_{49}, 6, 2, 1; 2014 DF_{22}, 3, 1, 0; 2014 EC_3, 3, 1, 0; 2015 ML_{66}, 3, 1, 0; 2015 MQ_{91}, 3, 1, 0; 2015 MX_{97}, 3, 1, 0; 2015 NZ_{22}, 3, 1, 0; 2015 NH_{24}, 3, 1, 0; 2015 NJ_{24}, 3, 1, 0; 2015 OA ∗, 9, 3, 2; 2015 OB ∗, 18, 6, 9; 2015 ON, 6, 1, 0; 2015 OW ∗, 6, 2, 1; 2015 OA_1 ∗, 9, 3, 2; 2015 OT_{21}, 3, 1, 0; 2015 OU_{21}, 3, 1, 0; 2015 OH_{22}, 3, 1, 0; 2015 ON_{22}, 3, 1, 0; 2015 OZ_{25}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 OB_{26}, 3, 1, 0; 2015 OF_{26}, 6, 2, 1; 2015 OG_{26}, 3, 1, 0; 2015 OH_{26}, 3, 1, 0; 2015 OR_{26} ∗, 9, 2, 2; 2015 OS_{26} ∗, 9, 2, 1; 2015 OU_{26} ∗, 6, 2, 4; 2015 OV_{26} ∗, 9, 3, 4; 2015 OW_{26} ∗, 9, 3, 2; 2015 OG_{33} ∗, 9, 3, 2; 2015 OH_{33} ∗, 12, 3, 2; 2015 OJ_{33} ∗, 6, 2, 1; 2015 OB_{35} ∗, 6, 2, 1; 2015 OC_{35} ∗, 6, 2, 1; 2015 OD_{35} ∗, 7, 2, 1; 2015 OJ_{35}, 3, 1, 0; 2015 OO_{35}, 3, 1, 0; 2015 OF_{42} ∗, 3, 1, 0; *[226, 42, 16∗, 2015/07/15–2015/07/26]*

958 Observatoire de Dax
P. Dupouy, Observatoire de Dax, F-40100 Dax, France [obsdax@wanadoo.fr]
Observers P. Dupouy, J. B. de Vanssay
0.43-m f/2.7 reflector + CCD, 0.30-m f/6.3 Schmidt-Cassegrain + CCD
UCAC-4, PPMXL

2006 QT_{89}, 3, 1, 0; 2012 PU_{17}, 3, 1, 0; 2015 MN_{116}, 3, 1, 0; 2015 MO_{116}, 3, 1, 0; 2015 NF, 4, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 10, 1, 0; 2015 NB_{14}, 3, 1, 0; 2015 OG, 3, 1, 0; 2015 OH, 7, 2, 1; 2015 OS, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 ON_{21}, 4, 1, 0; 2015 OC_{22}, 3, 1, 0; 2015 OA_{26}, 6, 1, 0; 2015 OK_{26}, 3, 1, 0; 2015 OL_{35}, 3, 1, 0; 2015 OS_{35}, 3, 1, 0; 2015 PH_9, 3, 1, 0; 2015 PK_9, 6, 1, 0; 2015 PQ_{56}, 3, 1, 0; 2015 PA_{229}, 3, 1, 0; 2015 PD_{229}, 3, 1, 0; 2015 PJ_{291}, 3, 1, 0; 2015 QA, 3, 1, 0; 2015 QB, 4, 1, 0; 2015 QF, 3, 1, 0; 2015 QG, 3, 1, 0; 2015 QJ, 3, 1, 0; 2015 QK, 5, 1, 0; 2015 QH_3, 4, 1, 0; 2015 QJ_3, 3, 1, 0; 2015 QK_3, 3, 1, 0; 2015 QM_3, 3, 1, 0; 2015 QN_3, 3, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QP_3, 3, 1, 0; 2015 QQ_3, 3, 1, 0; *[137, 38, 0∗, 2015/06/28–2015/08/21]*

A13 Observatoire Naef, Marly
P. Kocher, ufem Berg 23, CH-1734 Tentlingen, Switzerland [kocher@bluewin.ch]
0.5-m f/3.3 Hypergraph + CCD
UCAC-4

2004 NT_{33}, 2, 1, 0; 2005 YW_{36}, 2, 1, 0; 2006 WO_1, 2, 1, 0; 2015 BW_{67}, 3, 1, 0; 2015 BR_{514}, 2, 1, 0; 2015 JH_2, 14, 4, 5; 2015 NW_{22} ∗, 8, 3, 7; 2015 OH, 4, 1, 0; 2015 PX ∗, 12, 3, 20; (23187), 4, 2, 13; (46229), 2, 1, 0; (56013), 2, 1, 0; (85989), 2, 1, 0; (118423), 2, 1, 0; (179879), 2, 1, 0; (247393), 2, 1, 0; (286909), 2, 1, 0; (429733), 6, 3, 39; (438429), 3, 1, 0; *[76, 19, 2∗, 2006/02/27–2015/08/22]*

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

2008 JM_{13}, 3, 1, 0; 2014 WA_{501}, 6, 2, 20; 2015 LA_{36}, 3, 1, 0; 2015 LR_{39}, 3, 1, 0; 2015 MG_7, 3, 1, 0; 2015 NS_4, 3, 1, 0; 2015 NM_5, 3, 1, 0; 2015 OV_{77}, 3, 1, 0; 2015 PG_{43}, 3, 1, 0; *[30, 9, 0∗, 2010/10/13–2012/01/17]*

A48 Povegliano Veronese
F. Rossetti, Via Di Vittorio 6, Povegliano Veronese (Verona), Italy [rosfla@libero.it]
0.30-m f/5 reflector + CCD
UCAC-3

2015 JY_1, 8, 2, 19; 2015 NA_{14}, 8, 2, 3; *[16, 2, 0∗, 2015/07/14–2015/08/05]*

A50 Andrushivka Astronomical Observatory
Y. Ivashchenko, 3-7 Observatorna Sreet, Andrushivka, Zhytomyr reg, Ukraine [yurets@gluk.org]
Observers Y. Ivashchenko, P. Kyrylenko
0.5-m reflector + CCD
UCAC-4

2014 WB_{491}, 3, 1, 0; 2015 OH, 5, 1, 0; (272475), 1, 1, 0; *[9, 3, 0∗, 2011/04/20–2015/07/18]*

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

2006 AW, 4, 1, 0; 2012 TM_{139}, 3, 1, 0; 2015 GD, 3, 1, 0; 2015 JY_1, 4, 1, 0; 2015 NF, 4, 1, 0; 2015 NS_{13}, 3, 1, 0; (436724), 3, 1, 0; *[24, 7, 0∗, 2015/07/10–2015/08/27]*

A55 Osservatorio Astronomico Vallemare di Borbona
V. S. Casulli, via Monte Rosa 1, I-00012 Colleverde di Guidonia (RM), Italy [v.casulli@libero.it]
0.40-m f/4.5 Newtonian reflector + CCD
USNO-A2.0

2007 ON_4, 15, 5, 21; *[15, 1, 0∗, 2015/07/19–2015/08/08]*

A71 Stixendorf
W. Vollmann, Dammaeckergasse 28/D1/20, A-1210 Wien, Austria [vollmann@gmx.at]
Observers M. Jaeger, W. Vollmann, E. Prosperi, S. Prosperi
0.25-m f/4 reflector + CCD
UCAC-4

(4800), 3, 1, 0; (9310), 3, 1, 0; (10916), 4, 1, 0; (60558), 4, 1, 0; *[14, 4, 0∗, 2015/08/05–2015/08/08]*

A77 Observatoire Chante-Perdrix, Dauban
F. Kugel, Chante Perdrix, Dauban, F-04150 Banon, France [fkugel@wanadoo.fr]
Observers J. Nicolas, A. Klotz, F. Kugel, C. Rinner
0.41-m f/3.3 reflector + CCD, 0.20-m f/4 Schmidt-Cassegrain + CCD
UCAC-4, NOMAD, USNO-SA2.0, USNO-A2.0

2000 ST_{249}, 3, 1, 0; 2008 WR_{138}, 3, 1, 0; 2013 EH_{118}, 3, 1, 0; 2015 PR_{231}, 3, 1, 0; (51439), 3, 1, 0; (55248), 3, 1, 0; (60650), 3, 1, 0; (69186), 3, 1, 0; (95538), 3, 1, 0; (160430), 3, 1, 0; (165019), 3, 1, 0; (211307), 3, 1, 0; *[36, 12, 0∗, 2007/09/12–2015/08/22]*

A84 TUBITAK National Observatory
I. Khamitov, TUBITAK National Observatory, TR-07058 Antalya, Turkey [irek_khamitov@hotmail.com] (2)
Observers A. Zeki, R. Gumerov, I. Khamitov, M. Parmaksizoglu, K. Uluc, I. Bikmaev, A. Nemtinov
Measurers L. Bondarchyuk, V. Kryuchkovskiy, L. Gudkova, A. Pomazan, N. Maigurova
1.50-m f/7.7 reflector + CCD
UCAC-3

(294), 25, 1, 0; (447), 24, 2, 24; (464), 38, 1, 0; (581), 7, 1, 0; (731), 10, 1, 0; (1021), 5, 1, 0; (1042), 10, 1, 0; (4366), 18, 1, 0; (6006), 48, 1, 0; (7889), 10, 1, 0; (8610), 20, 1, 0; (8651), 7, 1, 0; (9537), 18, 1, 0; (43170), 14, 1, 0; (46938), 15, 1, 0; (62040), 11, 1, 0; (75951), 15, 1, 0; (88041), 20, 1, 0; (106080), 18, 1, 0; (137170), 9, 1, 0; (141424), 17, 1, 0; (363116), 110, 3, 5; *[469, 22, 0∗, 2005/01/05–2010/06/20]*

A92 Urseanu Observatory, Bucharest
A. Sonka, Astronomical Observatory Amiral Vasile Urseanu, Bd. Lascar Catargiu nr. 21, sect. 1, Bucharest, Romania [bruno@astroclubul.org]
Observers E. Petrescu, A. Sonka

0.3-m f//6.3 Schmidt-Cassegrain + CCD
PPMXL
(7986), 3, 1, 0; *[3, 1, 0∗, 2015/05/09]*

B18 Terskol
S. Barabanov, Institute of Astronomy of RAS, 48 Pyatnitskaya, Moscow 109017, Russia [inasan@burbonz.nalnet.ru]
Observers N. Parakhin, M. Andreev, A. Sergeev, V. Godunova
0.6-m f/12.9 Cassegrain + CCD
NOMAD
2010 PR_{66}, 10, 1, 0; 2015 MX_{53}, 9, 1, 0; (68278), 20, 1, 0; (132524), 12, 1, 0; (281375), 11, 1, 0; (284014), 12, 1, 0; (308823), 13, 1, 0; (348400), 13, 1, 0; (436724), 21, 2, 1; *[121, 9, 0∗, 2015/08/05–2015/08/10]*

B38 Santa Mama
S. Trevisan, Castagnoli 127/I, Subbiano, Italy [stelucy3@interfree.it]
0.30-m f/10 reflector + CCD + f/6.3 focal reducer
UCAC-2
2010 NY_{65}, 9, 2, 1; 2015 JY_1, 15, 3, 5; (53426), 9, 2, 1; (88710), 6, 2, 13; (385186), 4, 1, 0; (436724), 5, 1, 0; *[48, 6, 0∗, 2015/07/01–2015/08/06]*

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, CMC
2015 LG_2, 3, 1, 0; 2015 MP_1, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 OH, 3, 1, 0; *[12, 4, 0∗, 2015/07/12–2015/08/02]*

B54 Ager
J. Bel, C/Afores s/n, E-25691 Àger, Spain [aliextra@tele2.es]
0.30-m f/10.28 Schmidt-Cassegrain + CCD
CMC-15
(3752), 3, 1, 0; (4055), 3, 1, 0; (86666), 3, 1, 0; *[9, 3, 0∗, 2015/07/21]*

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
2015 OL_{35}, 3, 1, 0; 2015 PZ_{228}, 3, 1, 0; 2015 QJ_3, 3, 1, 0; *[9, 3, 0∗, 2015/08/26–2015/08/27]*

B74 Santa Maria de Montmagastrell
J. M. Bosch, Carrer del Nord, 29, 3r, 2a, E-25300 Tàrrega, Spain [jbosch1@xtec.cat]
0.40-m f/10 Schmidt-Cassegrain + CCD
UCAC-4
2012 BV_{99}, 3, 1, 0; 2014 WW_{169}, 4, 2, 4; 2015 KE_9, 3, 1, 0; 2015 MF_{66}, 3, 1, 0; 2015 MW_{79}, 6, 2, 2; 2015 MH_{80}, 3, 1, 0; 2015 MQ_{80}, 3, 1, 0; 2015 MQ_{91}, 3, 1, 0; 2015 MX_{97}, 6, 2, 1; 2015 NA_3, 3, 1, 0; 2015 NC_3, 3, 1, 0; (62590), 3, 1, 0; (190282), 3, 1, 0; (212955), 3, 1, 0; (248398), 3, 1, 0; (248960), 3, 1, 0; (298245), 3, 1, 0; (346803), 3, 1, 0; *[61, 18, 0∗, 2014/10/03–2015/07/11]*

B75 Stazione Astronomica Betelgeuse, Magnago
M. Martignoni, Via Don Minzoni 26D, I-20020 Magnago (Milano), Italy [massimiliano.martignoni@alice.it]
0.25-m f/10 Schmidt-Cassegrain + CCD
PPMXL
(7822), 5, 1, 0; *[5, 1, 0∗, 2015/08/04]*

B82 Maidbronn
B. Häusler, Albin-Joerg-Strasse 28, D-97222 Maidbronn, Germany [bernhard.haeusler@t-online.de]
0.30-m Schmidt-Cassegrain + CCD
USNO-A2.0, CMC
2012 BD, 3, 1, 0; 2012 BF_3, 6, 2, 1; 2015 OH_{22}, 6, 1, 0; (6105), 3, 1, 0; (47048), 6, 1, 0; (114718), 3, 1, 0; (194204), 3, 1, 0; (385186), 3, 1, 0; *[33, 8, 0∗, 2012/01/15–2015/08/23]*

B88 Bigmuskie Observatory, Mombercelli
A. Ferrero, via Italo Aresca 12bis, I-14047 Mombercelli (AT), Italy [bigmuskie@alice.it]
0.3-m reflector + CCD
UCAC-3
(348400), 6, 2, 1; *[6, 1, 0∗, 2015/07/09–2015/07/11]*

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
(306), 77, 4, 7; (313), 31, 2, 24; *[108, 2, 0∗, 2015/07/05–2015/08/07]*

B96 Brixiis Observatory, Kruibeke
E. Bryssinck, Eyckensbeekstraat 2, Kruibeke, Belgium [erik.bryssinck@telenet.be]
0.4-m f/3.8 astrograph + CCD
USNO-A2.0, UCAC-4
(1649), 7, 1, 0; (4149), 5, 1, 0; (5542), 7, 1, 0; (9334), 6, 1, 0; (10771), 2, 1, 0; (14938), 7, 1, 0; (15315), 7, 1, 0; (17095), 4, 1, 0; (20349), 2, 1, 0; (22700), 2, 1, 0; (24411), 8, 1, 0; (44600), 7, 1, 0; (56492), 6, 1, 0; (59656), 7, 1, 0; (64931), 7, 1, 0; (64972), 2, 1, 0; (70877), 3, 1, 0; (84049), 4, 1, 0; (92842), 4, 1, 0; (349666), 3, 1, 0; *[100, 20, 0∗, 2015/06/30–2015/08/22]*

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
(116), 3, 1, 0; (2060), 2, 1, 0; (3200), 3, 1, 0; (4999), 2, 1, 0; (64931), 3, 1, 0; (241527), 2, 1, 0; *[15, 6, 0∗, 2015/07/16–2015/08/21]*

C15 ISON-Ussuriysk Observatory
A. Matkin, Gornoetajnoe, 692533 Primorskiy, Russia [alexastronomy@yandex.ru]
0.5-m f/2.3 astrograph + CCD
Tycho-2
(1096), 3, 1, 0; (5696), 4, 1, 0; (8326), 2, 1, 0; (9072), 1, 1, 0; (13301), 1, 1, 0; (17822), 2, 1, 0; (17857), 4, 1, 0; (17981), 3, 1, 0; (18616), 3, 1, 0; (26370), 2, 1, 0; (27182), 3, 1, 0; (33480), 1, 1, 0; (33719), 3, 1, 0; (35539), 4, 1, 0; (36176), 2, 1, 0; (43395), 2, 1, 0; (62604), 2, 1, 0; (63684), 2, 1, 0; (64774), 1, 1, 0; *[45, 19, 0∗, 2013/12/27–2014/12/25]*

C23 Olmen
A. Diepvens, B-2491 Olmen, Belgium [alfons.diepvens@telenet.be]
0.20-m f/9 refractor + CCD
UCAC-4
2010 PR_{66}, 40, 7, 21; 2015 JY_1, 32, 7, 12; 2015 QN_3, 5, 1, 0; (389), 3, 1, 0; (478), 6, 1, 0; (1522), 2, 1, 0; (1566), 8, 2, 2; (2671), 6, 2, 9; (5037), 3, 1, 0; (8122), 3, 1, 0; (11354), 3, 1, 0; (15851), 2, 1, 0; (17116), 2, 1, 0; (19170), 3, 1, 0; (20391), 3, 1, 0; (21255), 5, 1, 0; (27775), 3, 1, 0; (46321), 3, 1, 0; (50583), 5, 1, 0; (54041), 2, 1, 0; (56492), 2, 1, 0; (85989), 43, 7, 16; (147011), 3, 1, 0; (194204), 3, 1, 0; (206378), 47, 7, 18; (275534), 3, 1, 0; (348400), 31, 5, 8; (385186), 62, 10, 23; (436724), 69, 4, 8; *[402, 29, 0∗, 2015/06/29–2015/08/22]*

C27 Pallerols
A. Jorba, Psje Garcini 3, E-08007 Barcelona, Spain [angel.jorba@gmail.com]
0.25-m $f/4.8$ reflector + CCD
UCAC-4
2006 AW, 4, 1, 0; 2008 SH_{287}, 8, 4, 4; 2015 OD_{25}, 4, 2, 1; 2015 QN_3, 8, 2, 1; (16638), 4, 2, 1; (16885), 3, 1, 0; (18872), 4, 1, 0; (19950), 2, 1, 0; (40133), 2, 1, 0; (46766), 2, 1, 0; (52045), 3, 1, 0; (66770), 3, 1, 0; (69198), 8, 4, 4; (70380), 6, 3, 3; (91628), 3, 1, 0; (95744), 2, 1, 0; (129484), 6, 3, 3; (142536), 4, 1, 0; (148129), 2, 1, 0; (174170), 2, 1, 0; (211313), 2, 1, 0; (285125), 2, 1, 0; (289446), 2, 1, 0; (298628), 4, 1, 0; *[90, 24, 0*, 2015/08/13–2015/08/20]*

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
2006 TP_{65}, 4, 1, 0; 2009 LK, 4, 1, 0; 2015 AU_3, 6, 1, 0; *[14, 3, 0*, 2011/10/09–2012/04/25]*

C36 Starry Wanderer Observatory, Baran'
S. Shurpakov, 211011, 1 Korban Street, f. 22, Baran', Belarus [shurpakou_A98@belastro.net]
0.15-m $f/3.2$ Newtonian reflector + CCD, 0.25-m $f/4.7$ Newtonian reflector + CCD
UCAC-4, UCAC-3, NOMAD
(6008), 7, 1, 0; *[7, 1, 0*, 2015/08/25]*

C41 MASTER-II Observatory, Kislovodsk
V. Lipunov, 119992 Universitetskiy pr. 13, Sternberg Astronomical Institute, Moscow, Russia [lipunov2007@gmail.com]
Observers E. Gorbovskoy, V. Lipunov, D. Denisenko, A. Tlatov, V. Senik
Measurer K. Sokolovsky
0.4-m $f/2.5$ reflector + CCD
UCAC-3, USNO-B1.0
2001 RT_{46}, 3, 1, 0; 2002 PP_7, 3, 1, 0; 2002 QF_{24}, 3, 1, 0; 2004 RR_{224}, 2, 1, 0; 2005 QT_{170}, 3, 1, 0; 2006 QN_{119}, 3, 1, 0; 2006 SF_{105}, 2, 1, 0; 2008 TH_{43}, 2, 1, 0; 2012 UN_{68}, 3, 1, 0; 2012 UQ_{166}, 3, 1, 0; 2013 EX_{10}, 3, 1, 0; (30), 4, 1, 0; (43), 3, 1, 0; (49), 3, 1, 0; (63), 3, 1, 0; (65), 3, 1, 0; (70), 5, 2, 1; (74), 3, 1, 0; (75), 3, 1, 0; (106), 3, 1, 0; (109), 2, 1, 0; (112), 6, 2, 2; (113), 3, 1, 0; (115), 3, 1, 0; (116), 7, 2, 13; (131), 3, 1, 0; (132), 6, 2, 1; (143), 3, 1, 0; (147), 4, 1, 0; (150), 3, 1, 0; (152), 5, 2, 1; (158), 6, 1, 0; (180), 3, 1, 0; (198), 6, 2, 9; (201), 3, 1, 0; (218), 2, 1, 0; (221), 3, 1, 0; (233), 2, 1, 0; (246), 3, 1, 0; (257), 3, 1, 0; (259), 3, 1, 0; (272), 3, 1, 0; (280), 6, 2, 8; (283), 14, 4, 14; (286), 3, 1, 0; (301), 2, 1, 0; (303), 3, 1, 0; (316), 4, 1, 0; (327), 6, 2, 1; (331), 2, 1, 0; (332), 2, 1, 0; (334), 3, 1, 0; (342), 6, 1, 0; (350), 3, 1, 0; (354), 4, 1, 0; (356), 3, 1, 0; (360), 3, 1, 0; (375), 3, 1, 0; (376), 5, 2, 8; (379), 4, 2, 13; (383), 4, 1, 0; (393), 10, 2, 9; (395), 3, 1, 0; (399), 3, 1, 0; (416), 9, 3, 8; (423), 6, 1, 0; (424), 3, 1, 0; (427), 3, 1, 0; (441), 3, 1, 0; (442), 3, 1, 0; (453), 6, 1, 0; (457), 2, 1, 0; (470), 3, 1, 0; (472), 7, 2, 2; (490), 4, 1, 0; (500), 3, 1, 0; (511), 6, 1, 0; (514), 6, 1, 0; (533), 3, 1, 0; (547), 3, 1, 0; (552), 3, 1, 0; (561), 3, 1, 0; (573), 3, 1, 0; (577), 3, 1, 0; (578), 3, 1, 0; (586), 3, 1, 0; (589), 3, 1, 0; (600), 3, 1, 0; (605), 3, 1, 0; (621), 3, 1, 0; (648), 2, 1, 0; (662), 6, 2, 11; (678), 3, 1, 0; (689), 3, 1, 0; (720), 3, 1, 0; (728), 3, 1, 0; (746), 3, 1, 0; (776), 5, 1, 0; (777), 3, 1, 0; (782), 3, 1, 0; (783), 6, 2, 7; (788), 3, 1, 0; (792), 3, 1, 0; (794), 3, 1, 0; (808), 3, 1, 0; (819), 4, 1, 0; (830), 3, 1, 0; (831), 3, 1, 0; (838), 3, 1, 0; (846), 3, 1, 0; (854), 2, 1, 0; (863), 5, 2, 17; (866), 3, 1, 0; (890), 3, 1, 0; (893), 8, 2, 7; (896), 3, 1, 0; (917), 2, 1, 0; (919), 3, 1, 0; (925), 3, 1, 0; (936), 1, 1, 0; (947), 3, 1, 0; (953), 3, 1, 0; (978), 3, 1, 0; (1001), 3, 1, 0; (1011), 3, 1, 0; (1021), 4, 1, 0; (1025), 2, 1, 0; (1050), 3, 1, 0; (1052), 3, 1, 0; (1081), 2, 1, 0; (1082), 3, 1, 0; (1083), 8, 2, 1; (1090), 3, 1, 0; (1114), 2, 1, 0; (1147), 3, 1, 0; (1151), 3, 1, 0; (1152), 3, 1, 0; (1153), 2, 1, 0; (1163), 3, 1, 0; (1169), 3, 1, 0; (1171), 4, 1, 0; (1197), 2, 1, 0; (1199), 3, 1, 0; (1201), 3, 1, 0; (1212), 3, 1, 0; (1214), 6, 2, 1; (1218), 3, 1, 0; (1253), 3, 1, 0; (1261), 4, 1, 0; (1269), 6, 2, 16; (1274), 3, 1, 0; (1280), 9, 2, 11; (1281), 3, 1, 0; (1289), 2, 1, 0; (1292), 4, 1, 0; (1296), 2, 1, 0; (1298), 3, 1, 0; (1306), 11, 4, 10; (1307), 3, 1, 0; (1315), 5, 2, 1; (1331), 3, 1, 0; (1345), 3, 1, 0; (1351), 3, 1, 0; (1383), 2, 1, 0; (1398), 3, 1, 0; (1399), 2, 1, 0; (1421), 3, 1, 0; (1424), 3, 1, 0; (1430), 3, 1, 0; (1432), 3, 1, 0; (1442), 2, 1, 0; (1455), 3, 1, 0; (1462), 4, 1, 0; (1471), 3, 1, 0; (1489), 3, 1, 0; (1504), 3, 1, 0; (1510), 3, 1, 0; (1521), 3, 1, 0; (1529), 3, 1, 0; (1531), 5, 2, 2; (1533), 3, 1, 0; (1541), 3, 1, 0; (1564), 2, 1, 0; (1570), 6, 1, 0; (1571), 2, 1, 0; (1602), 3, 1, 0; (1636), 3, 1, 0; (1641), 3, 1, 0; (1642), 3, 1, 0; (1667), 2, 1, 0; (1696), 2, 1, 0; (1704), 2, 1, 0; (1706), 3, 1, 0; (1721), 3, 1, 0; (1725), 7, 2, 5; (1735), 3, 1, 0; (1770), 2, 1, 0; (1773), 3, 1, 0; (1776), 2, 1, 0; (1777), 3, 1, 0; (1783), 2, 1, 0; (1801), 3, 1, 0; (1806), 3, 1, 0; (1809), 3, 1, 0; (1832), 3, 1, 0; (1857), 3, 1, 0; (1867), 4, 2, 7; (1898), 3, 1, 0; (1899), 3, 1, 0; (1904), 2, 1, 0; (1938), 3, 1, 0; (1992), 3, 1, 0; (1995), 3, 1, 0; (2015), 3, 1, 0; (2033), 3, 1, 0; (2035), 5, 2, 1; (2060), 3, 1, 0; (2071), 3, 1, 0; (2118), 3, 1, 0; (2159), 3, 1, 0; (2184), 2, 1, 0; (2191), 3, 1, 0; (2193), 3, 1, 0; (2227), 3, 1, 0; (2241), 3, 1, 0; (2263), 9, 2, 3; (2301), 2, 1, 0; (2316), 3, 1, 0; (2323), 3, 1, 0; (2324), 3, 1, 0; (2343), 3, 1, 0; (2357), 2, 1, 0; (2362), 6, 1, 0; (2372), 3, 1, 0; (2383), 3, 1, 0; (2396), 4, 1, 0; (2406), 3, 1, 0; (2410), 3, 1, 0; (2448), 3, 1, 0; (2468), 3, 1, 0; (2469), 3, 1, 0; (2478), 3, 1, 0; (2501), 3, 1, 0; (2505), 2, 1, 0; (2548), 3, 1, 0; (2555), 3, 1, 0; (2566), 3, 1, 0; (2569), 3, 1, 0; (2591), 3, 1, 0; (2609), 2, 1, 0; (2650), 2, 1, 0; (2668), 6, 1, 0; (2671), 3, 1, 0; (2677), 3, 1, 0; (2679), 3, 1, 0; (2687), 2, 1, 0; (2699), 5, 2, 1; (2707), 3, 1, 0; (2725), 3, 1, 0; (2733), 3, 1, 0; (2750), 3, 1, 0; (2762), 2, 1, 0; (2783), 3, 1, 0; (2813), 3, 1, 0; (2829), 2, 1, 0; (2842), 3, 1, 0; (2871), 3, 1, 0; (2876), 3, 1, 0; (2904), 7, 2, 8; (2922), 1, 1, 0; (2928), 2, 1, 0; (2941), 3, 1, 0; (2947), 2, 1, 0; (2974), 3, 1, 0; (2982), 5, 2, 1; (2983), 2, 1, 0; (3012), 3, 1, 0; (3019), 3, 1, 0; (3022), 3, 1, 0; (3028), 3, 1, 0; (3031), 3, 1, 0; (3033), 3, 1, 0; (3035), 6, 1, 0; (3040), 3, 1, 0; (3046), 3, 1, 0; (3071), 2, 1, 0; (3084), 3, 1, 0; (3085), 2, 1, 0; (3093), 5, 1, 0; (3094), 3, 1, 0; (3097), 3, 1, 0; (3101), 6, 2, 4; (3111), 3, 1, 0; (3127), 3, 1, 0; (3129), 5, 1, 0; (3134), 3, 1, 0; (3152), 3, 1, 0; (3210), 3, 1, 0; (3211), 3, 1, 0; (3229), 3, 1, 0; (3264), 3, 1, 0; (3282), 3, 1, 0; (3295), 5, 2, 1; (3371), 4, 2, 1; (3377), 3, 1, 0; (3403), 2, 1, 0; (3425), 3, 1, 0; (3434), 3, 1, 0; (3542), 3, 1, 0; (3563), 3, 1, 0; (3565), 2, 1, 0; (3570), 3, 1, 0; (3577), 4, 1, 0; (3593), 2, 1, 0; (3595), 2, 1, 0; (3616), 3, 1, 0; (3628), 7, 2, 16; (3629), 3, 1, 0; (3640), 2, 1, 0; (3679), 6, 2, 1; (3682), 6, 2, 2; (3694), 3, 1, 0; (3734), 3, 1, 0; (3735), 4, 1, 0; (3741), 3, 1, 0; (3742), 6, 2, 8; (3747), 3, 1, 0; (3748), 2, 1, 0; (3766), 2, 1, 0; (3787), 3, 1, 0; (3790), 6, 1, 0; (3791), 3, 1, 0; (3792), 2, 1, 0; (3811), 2, 1, 0; (3875), 3, 1, 0; (3918), 3, 1, 0; (3924), 2, 1, 0; (3931), 2, 1, 0; (3937), 3, 1, 0; (3958), 2, 1, 0; (3959), 3, 1, 0; (3983), 2, 1, 0; (4001), 3, 1, 0; (4029), 2, 1, 0; (4072), 3, 1, 0; (4107), 3, 1, 0; (4119), 3, 1, 0; (4141), 3, 1, 0; (4165), 2, 1, 0; (4183), 5, 1, 0; (4208), 3, 1, 0; (4212), 3, 1, 0; (4217), 3, 1, 0; (4236), 3, 1, 0; (4261), 2, 1, 0; (4269), 2, 1, 0; (4283), 3, 1, 0; (4284), 3, 1, 0; (4302), 7, 2, 11; (4304), 3, 1, 0; (4315), 3, 1, 0; (4357), 6, 1, 0; (4373), 5, 1, 0; (4376), 3, 1, 0; (4378), 3, 1, 0; (4380), 3, 1, 0; (4403), 3, 1, 0; (4407), 3, 1, 0; (4410), 3, 1, 0; (4424), 3, 1, 0; (4431), 6, 2, 1; (4443), 6, 1, 0; (4456), 3, 1, 0; (4464), 2, 1, 0; (4496), 3, 1, 0; (4519), 3, 1, 0; (4561), 3, 1, 0; (4567), 2, 1, 0; (4588), 3, 1, 0; (4612), 3, 1, 0; (4664), 3, 1, 0; (4674), 3, 1, 0; (4742), 3, 1, 0; (4780), 3, 1, 0; (4796), 2, 1, 0; (4800), 3, 1, 0; (4816), 2, 1, 0; (4819), 3, 1, 0; (4833), 3, 1, 0; (4849), 2, 1, 0; (4889), 3, 1, 0; (4926), 3, 1, 0; (4941), 2, 1, 0; (4950), 3, 1, 0; (4990), 2, 1, 0; (4992), 2, 1, 0; (5008), 3, 1, 0; (5016), 2, 1, 0; (5033), 3, 1, 0; (5047), 2, 1, 0; (5065), 1, 1, 0; (5083), 8, 2, 16; (5130), 3, 1, 0; (5147), 3, 1, 0; (5172), 3, 1, 0; (5206), 2, 1, 0; (5215), 2, 1, 0; (5217), 2, 1, 0; (5236), 3, 1, 0; (5247), 3, 1, 0; (5250), 3, 1, 0; (5313), 3, 1, 0; (5327), 3, 1, 0; (5337), 6, 2, 8; (5351), 3, 1, 0; (5357), 3, 1, 0; 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C43 Hoyerswerda

P. Lindner, Ringstraße 21, D-02977 Hoyerswerda, Germany
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0.30-m $f/6.3$ Schmidt-Cassegrain + CCD

UCAC-4

2015 NZ_{13}, 4, 1, 0; 2015 NA_{14}, 6, 2, 1; 2015 NB_{14}, 4, 1, 0; 2015 QN_3, 3, 1, 0; 2015 QO_3, 2, 1, 0; 2015 QZ_8, 2, 1, 0; 2015 QA_9, 4, 1, 0; 2015 QB_9, 3, 1, 0; (2071), 2, 1, 0; (10936), 2, 1, 0; (53090), 2, 1, 0; (86028), 2, 1, 0; (86074), 2, 1, 0; (127540), 2, 1, 0; (154270), 2, 1, 0; (194720), 2, 1, 0; (349600), 1, 1, 0; *[45, 17, 0∗, 2015/07/15–2015/08/22]*

C44 A. Volta Observatory, Lanzo d'Intelvi

F. Tozzi, Via le S. Baldini 4/A, 48121 Ravenna, Italy [ftozzi@racine.ra.it]

0.40-m $f/3.5$ reflector + CCD

UCAC-4

2006 QT_{89}, 2, 1, 0; 2015 QG, 5, 1, 0; 2015 QJ, 2, 1, 0; 2015 QM_3, 2, 1, 0; 2015 QN_3, 5, 1, 0; *[16, 5, 0∗, 2015/08/19–2015/08/20]*

C47 Nonndorf

G. Dangl, Nonndorf 12, A-3830, Austria [gerhard@dangl.at]

0.25-m $f/4.8$ reflector + CCD

UCAC-4

2006 AW, 24, 4, 21; 2015 HM_{10}, 4, 1, 0; 2015 JY_1, 18, 3, 6; 2015 JH_2, 11, 2, 1; 2015 LG_2, 10, 2, 5; 2015 MP_1, 5, 1, 0; 2015 NF, 3, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NZ_{13}, 5, 1, 0; 2015 NA_{14}, 13, 2, 1; 2015 OH, 6, 1, 0; 2015 OS, 4, 1, 0; 2015 OM_{21}, 5, 1, 0; 2015 OH_{22}, 3, 1, 0; 2015 PT, 6, 1, 0; 2015 PG_9, 3, 1, 0; 2015 PK_9, 6, 1, 0; 2015 PV_{228}, 4, 1, 0; 2015 QT_3, 12, 2, 1; 2015 QZ_8, 4, 1, 0; (5747), 6, 1, 0; (5867), 5, 1, 0; (9247), 2, 1, 0; (13290), 5, 1, 0; (14480), 5, 1, 0; (17569), 6, 1, 0; (18582), 5, 1, 0; (28892), 5, 1, 0; (32154), 6, 1, 0; (47048), 3, 1, 0; (47141), 6, 1, 0; (49667), 5, 1, 0; (52229), 6, 1, 0; (85989), 7, 1, 0; (86787), 4, 1, 0; (101679), 5, 1, 0; (153409), 6, 1, 0; (183581), 5, 1, 0; (185854), 5, 1, 0; *[246, 39, 0∗, 2015/07/09–2015/08/27]*

C51 WISE

A. 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, C. Nugent, S. Sonnett, E. Kramer

http://wise.ssl.berkeley.edu/mission_sci.html

2MASS

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(170576), 24, 3, 2; (170602), 10, 3, 1; (170725), 94, 9, 8; (170734), 14, 3, 1; (171402), 28, 4, 2; (173347), 16, 3, 2; (174171), 56, 7, 6; (175132), 24, 3, 1; (176108), 30, 3, 2; (176195), 32, 3, 1; (176862), 28, 3, 2; (176976), 34, 4, 2; (177429), 26, 3, 1; (177830), 10, 2, 1; (178922), 26, 3, 2; (179157), 10, 2, 1; (180018), 16, 4, 2; (181704), 48, 5, 2; (181803), 18, 3, 1; (182968), 18, 3, 1; (185535), 18, 4, 2; (185680), 16, 3, 1; (186728), 16, 2, 1; (187963), 26, 4, 2; (189216), 30, 4, 2; (189639), 32, 4, 2; (190188), 12, 3, 1; (190512), 16, 2, 1; (190889), 26, 3, 2; (193175), 28, 3, 2; (193541), 22, 3, 1; (193883), 56, 7, 8; (194581), 10, 2, 1; (194874), 18, 3, 1; (197678), 30, 4, 2; (197811), 12, 2, 1; (198070), 10, 2, 1; (198390), 12, 2, 1; (200426), 30, 3, 2; (200754), 10, 2, 1; (200995), 16, 4, 2; (201497), 22, 3, 1; (201997), 32, 4, 2; (203102), 28, 4, 2; (203886), 22, 3, 1; (204214), 14, 3, 1; (204357), 24, 4, 2; (205259), 24, 4, 2; (205347), 16, 2, 1; (207385), 16, 3, 1; (207745), 16, 3, 1; (208816), 18, 2, 1; (208999), 12, 2, 1; (209414), 28, 4, 2; (209415), 28, 3, 1; (209665), 18, 3, 2; (209904), 18, 2, 1; (211315), 18, 2, 1; (212161), 12, 2, 1; (212543), 16, 3, 1; (213036), 22, 4, 2; (213118), 24, 3, 2; (213401), 22, 2, 1; (213696), 16, 3, 1; (215775), 34, 3, 1; (216925), 12, 3, 1; (218361), 30, 3, 2; (220704), 22, 3, 1; (220894), 10, 2, 1; (222240), 16, 3, 1; (223524), 16, 3, 2; (226667), 12, 2, 1; (228413), 24, 3, 2; (230411), 36, 3, 2; (231737), 28, 3, 2; (231947), 24, 3, 1; (232284), 10, 2, 1; (232285), 54, 6, 6; (233082), 16, 3, 1; (233404), 24, 3, 2; (234023), 12, 2, 1; (234204), 38, 4, 2; (234335), 42, 6, 6; (234738), 18, 3, 1; (234766), 18, 3, 1; (234767), 32, 4, 2; (234930), 38, 4, 2; (235724), 10, 2, 1; (235802), 10, 3, 1; (236393), 24, 3, 1; (237653), 30, 4, 2; (237805), 118, 14, 8; (237873), 8, 2, 1; (237892), 32, 3, 2; (238443), 16, 3, 2; (238882), 12, 3, 1; (240151), 28, 3, 2; (240892), 28, 3, 1; (241662), 34, 3, 1; (241771), 20, 3, 2; (241799), 12, 2, 1; (241802), 16, 3, 2; (241806), 38, 4, 2; (241808), 34, 4, 2; (241822), 28, 4, 2; (241883), 16, 3, 2; (242437), 28, 4, 2; (242442), 16, 4, 2; (242449), 30, 4, 2; (243078), 14, 3, 2; (243219), 10, 3, 1; (243678), 14, 3, 2; (243774), 16, 2, 1; (243860), 10, 3, 1; (244129), 14, 3, 1; (244548), 26, 2, 1; (244601), 26, 4, 2; (245781), 14, 2, 1; (245927), 12, 2, 1; (246140), 26, 3, 2; (246920), 58, 6, 8; (247214), 32, 3, 1; (247253), 14, 2, 1; (247538), 68, 8, 6; (247742), 16, 3, 2; (247930), 20, 4, 2; (249680), 28, 3, 2; (249722), 14, 3, 1; (249723), 20, 4, 2; (250510), 28, 3, 2; (251581), 12, 2, 1; (255711), 34, 3, 2; (261783), 28, 3, 1; (267247), 24, 3, 1; (270155), 22, 3, 2; (270387), 12, 3, 1; (271619), 30, 3, 2; (271632), 12, 2, 1; (272475), 24, 3, 2; (276323), 16, 2, 1; (278592), 16, 3, 2; (281728), 10, 2, 1; (283068), 16, 2, 1; (283438), 36, 5, 2; (284302), 16, 3, 2; (284493), 36, 4, 2; (285331), 38, 5, 3; (285350), 50, 6, 6; (285679), 16, 3, 2; (285705), 28, 4, 2; (285801), 18, 4, 2; (287554), 16, 3, 1; (289124), 22, 3, 2; (289949), 30, 3, 1; (291947), 12, 3, 1; (293753), 14, 2, 1; (294398), 70, 8, 7; (294400), 42, 6, 7; (297408), 34, 4, 2; (300293), 34, 4, 2; (301638), 12, 3, 1; (301927), 64, 7, 6; (302816), 16, 3, 2; (303013), 18, 4, 2; (303641), 26, 3, 1; (304121), 24, 3, 2; (304140), 18, 3, 1; (304155), 12, 2, 1; (306418), 26, 4, 2; (306441), 46, 5, 2; (306514), 28, 3, 2; (306649), 14, 3, 1; (306786), 32, 4, 2; (307259), 38, 4, 2; (307497), 44, 6, 6; (308283), 24, 3, 2; (308761), 14, 2, 1; (309524), 44, 4, 2; (309525), 40, 4, 2; (310440), 34, 4, 2; (310553), 12, 2, 1; (311127), 26, 3, 1; (311634), 28, 3, 1; (313474), 22, 2, 1; (313524), 22, 4, 2; (317465), 60, 7, 7; (320756), 16, 3, 1; (333062), 2, 1, 0; (334921), 12, 2, 1; (337241), 10, 3, 1; (337248), 18, 2, 1; (346441), 12, 3, 1; (348845), 36, 4, 2; (351286), 28, 4, 2; (354064), 10, 1, 0; (356278), 30, 4, 2; (357498), 32, 6, 7; (359722), 32, 4, 2; (363027), 22, 2, 1; (363080), 56, 7, 7; (363653), 36, 4, 2; (385186), 10, 1, 0; (387673), 12, 2, 1; (387741), 26, 3, 2; (388260), 24, 3, 1; (391496), 12, 2, 1; (393350), 36, 4, 2; (393439), 10, 3, 1; (393525), 16, 3, 2; (393677), 22, 3, 2; (395547), 14, 3, 2; (396665), 12, 3, 2; (400418), 12, 3, 2; (401857), 24, 3, 1; (414772), 10, 1, 0; (416031), 32, 4, 3; (417264), 24, 5, 3; (422838), 28, 4, 2; (422960), 16, 3, 1; (423774), 16, 3, 1; (425009), 18, 3, 1; (428168), 10, 2, 1; (431722), 14, 2, 1; (432232), 14, 3, 2; (434176), 14, 3, 2; (434223), 16, 2, 1; (434279), 28, 4, 2; (434783), 44, 7, 7; (436315), 10, 3, 1; (436369), 22, 3, 1; (436671), 12, 1, 0; (436724), 10, 1, 0; (437879), 28, 4, 2; (438736), 10, 2, 1; (439203), 16, 2, 1; *[58458, 2429, 17*, 2015/06/22–2015/08/26]*

C65 Observatori Astronòmic del Montsec

S. Ribas, C/Gran Capità, 2-4, Edifici Nexus, desp. 201, 08034 Barcelona Spain
[sjribas@montsec.cat]

Observer J. M. Trigo-Rodriguez

0.80-m $f/9.6$ Ritchey-Chrétien + CCD

CMC

(60558), 6, 2, 2; *[6, 1, 0∗, 2015/06/28–2015/06/30]*

C77 Bernezzo Observatory

A. Mantero, Via Maggiori 28, Bernezzo Italy [manteandrea@libero.it]
0.25-m $f/4$ reflector + CCD
UCAC-4, USNO-B1.0

2006 AW, 3, 1, 0; 2010 PR_{66}, 4, 1, 0; 2012 NP, 3, 1, 0; 2015 GD, 3, 1, 0; 2015 JY_1, 4, 1, 0; 2015 MP_1, 3, 1, 0; 2015 NF, 3, 1, 0; 2015 NS_{13}, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 OH, 3, 1, 0; 2015 OH_{22}, 4, 1, 0; 2015 PT, 3, 1, 0; 2015 PZ_{228}, 3, 1, 0; (7822), 3, 1, 0; (54789), 3, 1, 0; (242191), 3, 1, 0; (294739), 3, 1, 0; (348400), 4, 1, 0; (436724), 5, 1, 0; *[66, 20, 0∗, 2015/07/08–2015/08/16]*

C85 Observatorio Cala d'Hort, Ibiza

I. de la Cueva, Abad y Lasierra 58Bis, Ibiza 07800, Spain
[ignaciodelacueva@redfarma.org]
Observers I. de la Cueva, J. L. Ferrer, J. Ribas
Measurers A. Prats, M. J. Palomeque, M. A. Yuste, R. Quejigo
0.50-m $f/3.6$ reflector + CCD
UCAC-4

2014 UW_{116}, 3, 1, 0; 2015 KW_{51}, 12, 4, 3; 2015 LM_{40} ∗, 7, 2, 1; 2015 LN_{40} ∗, 10, 3, 2; 2015 LO_{40} ∗, 6, 2, 2; 2015 LP_{40} ∗, 6, 2, 1; 2015 LQ_{40} ∗, 5, 2, 2; 2015 MS_{116} ∗, 8, 2, 1; 2015 MT_{116} ∗, 12, 3, 2; 2015 MU_{116} ∗, 8, 2, 1; 2015 MW_{116} ∗, 7, 2, 4; *[84, 11, 9∗, 2014/10/17–2015/06/25]*

C94 MASTER-II Observatory, Tunka

V. Lipunov, SAI, Universitetskiy pr.13, 119992 Moscow, Russia
[lipunov2007@gmail.com]
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0

(12), 1, 1, 0; (347), 3, 1, 0; (407), 1, 1, 0; (915), 1, 1, 0; (1463), 1, 1, 0; (1866), 3, 1, 0; (2525), 6, 1, 0; (3192), 3, 1, 0; (3248), 1, 1, 0; (4028), 1, 1, 0; (5457), 3, 1, 0; (5826), 3, 1, 0; (5936), 1, 1, 0; (7163), 1, 1, 0; (8357), 6, 1, 0; (9111), 2, 1, 0; (11287), 3, 1, 0; (13951), 1, 1, 0; (18062), 3, 1, 0; (19916), 3, 1, 0; (20252), 3, 1, 0; (21797), 1, 1, 0; (22063), 2, 1, 0; (28025), 1, 1, 0; (29962), 1, 1, 0; (31747), 3, 1, 0; (62417), 1, 1, 0; (77650), 1, 1, 0; *[60, 28, 0∗, 2015/01/01–2015/08/20]*

C95 SATINO Remote Observatory, Haute Provence

D. Husar, Himmelsmoor 18, 22397 Hamburg, Germany [husar.d@gmx.de]
Observer J. Jahn
0.60-m $f/3.2$ Newtonian reflector + CCD, 0.11-m $f/5$ refractor + CCD
UCAC-4, USNO-B1.0

2004 TF_{88}, 4, 1, 0; 2004 VO_2, 4, 2, 2; 2005 QY_{62}, 4, 2, 2; 2005 TN_{157}, 3, 1, 0; 2005 VL_{107}, 3, 1, 0; 2005 XP_{72}, 4, 1, 0; 2006 YE_4, 3, 1, 0; 2007 CN, 3, 1, 0; 2007 RP_{37}, 4, 1, 0; 2008 MH, 7, 2, 1; 2008 SN_{117}, 2, 1, 0; 2009 PK_4, 2, 1, 0; 2009 QB_{63}, 3, 1, 0; 2009 SY_{161}, 3, 1, 0; 2010 OE_{27}, 3, 1, 0; 2010 PT_{10}, 3, 1, 0; 2010 UX_{37}, 6, 2, 2; 2010 VQ_{78}, 8, 3, 2; 2010 VH_{207}, 6, 2, 1; 2011 RE, 7, 2, 6; 2011 SX_{210}, 3, 1, 0; 2011 UU_{195}, 3, 1, 0; 2011 UP_{243}, 2, 1, 0; 2011 UY_{385}, 4, 1, 0; 2011 WP_{21}, 4, 2, 2; 2011 WF_{150}, 5, 2, 1; 2012 DL_{76}, 3, 1, 0; 2013 CH_{56}, 3, 1, 0; 2013 HM_{70}, 2, 1, 0; 2013 YV_{20}, 8, 2, 1; 2015 ML_{130}, 5, 2, 1; 2015 NS_{25} ∗, 6, 2, 2; 2015 PK_9, 6, 1, 0; 2015 PS_{254} ∗, 5, 2, 1; 2015 QH_4 ∗, 8, 2, 2; (2), 4, 1, 0; (740), 5, 1, 0; (1147), 6, 2, 2; (1656), 4, 1, 0; (1711), 5, 1, 0; (3196), 4, 1, 0; (3900), 2, 1, 0; (4055), 1, 1, 0; (4157), 3, 1, 0; (4572), 3, 1, 0; (8045), 3, 1, 0; (10187), 3, 1, 0; (11101), 4, 1, 0; (11970), 3, 1, 0; (13043), 2, 1, 0; (14501), 3, 1, 0; (14626), 10, 3, 2; (14708), 3, 1, 0; (16802), 3, 1, 0; (16958), 3, 1, 0; (18341), 3, 1, 0; (18865), 3, 1, 0; (23712), 6, 1, 0; (23739), 3, 1, 0; (26476), 4, 1, 0; (26765), 4, 1, 0; (27037), 4, 1, 0; (31170), 3, 1, 0; (33087), 6, 1, 0; (33880), 5, 1, 0; (34099), 4, 1, 0; (35806), 3, 1, 0; (45699), 4, 1, 0; (45877), 3, 1, 0; (46274), 3, 1, 0; (46715), 3, 1, 0; (62566), 3, 1, 0; (67154), 3, 1, 0; (68929), 3, 1, 0; (75903), 7, 2, 1; (78066), 3, 1, 0; (78534), 3, 1, 0; (82761), 7, 2, 2; (85065), 2, 1, 0; (89123), 3, 1, 0; (90077), 4, 1, 0; (91160), 7, 2, 1; (94845), 3, 1, 0; (94973), 3, 1, 0; (95596), 3, 1, 0; (95652), 3, 1, 0; (97349), 3, 1, 0; (101026), 4, 1, 0; (105296), 4, 1, 0; (111438), 6, 2, 4; (112381), 3, 1, 0; (112833), 4, 1, 0; (119925), 4, 1, 0; (122596), 4, 1, 0; (126309), 4, 1, 0; (135020), 4, 1, 0; (139456), 3, 1, 0; (139531), 7, 2, 4; (141800), 2, 1, 0; (142800), 3, 1, 0; (143009), 6, 2, 2; (150596), 5, 2, 1; (152781), 3, 1, 0; (153370), 6, 2, 2; (157988), 7, 2, 2; (162895), 4, 1, 0; (164902), 3, 1, 0; (164946), 3, 1, 0; (166191), 7, 2, 4; (170679), 4, 1, 0; (171637), 4, 1, 0; (172214), 4, 1, 0; (177518), 4, 1, 0; (181454), 4, 1, 0; (198005), 4, 1, 0; (198039), 4, 1, 0; (209803), 5, 2, 2; (211731), 4, 1, 0; (214018), 3, 1, 0; (216226), 3, 1, 0; (216430), 7, 2, 4; (217348), 4, 1, 0; (221453), 3, 1, 0; (228054), 3, 1, 0; (237571), 7, 2, 4; (240087), 4, 1, 0; (241731), 3, 1, 0; (247265), 7, 2, 4; (248530), 4, 1, 0; (250687), 3, 1, 0; (255068), 3, 1, 0; (256474), 4, 2, 2; (256485), 3, 1, 0; (256877), 2, 1, 0; (258633), 3, 1, 0; (260232), 6, 2, 1; (260821), 4, 1, 0; (262425), 2, 1, 0; (264504), 6, 2, 2; (269766), 2, 1, 0; (279428), 3, 1, 0; (280810), 7, 2, 4; (287689), 3, 1, 0; (288979), 6, 2, 4; (288988), 3, 1, 0; (293066), 5, 2, 2; (298339), 3, 1, 0; (300387), 3, 1, 0; (303100), 5, 2, 1; (305099), 4, 2, 2; (305284), 3, 1, 0; (310717), 4, 1, 0; (311518), 14, 4, 9; (318714), 4, 1, 0; (320006), 3, 1, 0; (320095), 3, 1, 0; (324304), 5, 2, 2; (328063), 3, 1, 0; (348271), 2, 1, 0; (348545), 4, 1, 0; (351233), 6, 2, 2; (354765), 3, 1, 0; (355337), 2, 1, 0; (358006), 3, 1, 0; (358830), 4, 1, 0; (362538), 3, 1, 0; (388883), 5, 2, 2; (390854), 3, 1, 0; (392521), 4, 1, 0; (396825), 2, 1, 0; (398495), 3, 1, 0; (401916), 5, 2, 1; (402444), 5, 2, 2; (402862), 4, 1, 0; (403940), 3, 1, 0; (436724), 49, 1, 0; *[754, 176, 3∗, 2015/05/26–2015/08/26]*

D00 ISON-Kislovodsk Observatory

D. Chestnov, st. Svobody, 35/22, RU-125362 Moscow, Russia [chestd@gmail.com]
Observer V. Linkov
Measurers V. Linkov, V. Nevski
0.4-m $f/3$ reflector + CCD
UCAC-4

2006 SF_{105}, 4, 1, 0; 2010 BZ_{105}, 3, 1, 0; 2014 WS_{117}, 4, 1, 0; 2015 BZ_{58}, 3, 1, 0; 2015 FR_{341}, 4, 1, 0; 2015 LC_{32}, 4, 1, 0; 2015 MG_{104}, 4, 1, 0; (1477), 4, 1, 0; (2071), 4, 1, 0; (5558), 4, 1, 0; (5860), 4, 1, 0; (7916), 4, 1, 0; (7988), 4, 1, 0; (8044), 4, 1, 0; (9216), 4, 1, 0; (9387), 1, 1, 0; (11780), 4, 1, 0; (12514), 4, 1, 0; (13274), 2, 1, 0; (13368), 3, 1, 0; (14482), 4, 1, 0; (17223), 4, 1, 0; (22894), 4, 1, 0; (24373), 2, 1, 0; (25094), 4, 1, 0; (30281), 4, 1, 0; (31416), 1, 1, 0; (34376), 4, 1, 0; (35074), 4, 1, 0; (36592), 3, 1, 0; (37084), 4, 1, 0; (37334), 3, 1, 0; (38541), 4, 1, 0; (39769), 4, 1, 0; (41515), 3, 1, 0; (44277), 4, 1, 0; (45795), 4, 1, 0; (45829), 4, 1, 0; (47846), 2, 1, 0; (48475), 1, 1, 0; (48623), 4, 1, 0; (50321), 4, 1, 0; (51610), 2, 1, 0; (61291), 4, 1, 0; (61388), 2, 1, 0; (65556), 4, 1, 0; (67017), 2, 1, 0; (67466), 4, 1, 0; (70552), 3, 1, 0; (74106), 4, 1, 0; (76018), 2, 1, 0; (76711), 3, 1, 0; (87133), 3, 1, 0; (89794), 4, 1, 0; (98088), 4, 1, 0; (108411), 4, 1, 0; (112121), 4, 1, 0; (120367), 4, 1, 0; (124345), 4, 1, 0; (124417), 4, 1, 0; (125711), 3, 1, 0; (158030), 4, 1, 0; (162339), 4, 1, 0; (182403), 3, 1, 0; (184998), 2, 1, 0; (186152), 3, 1, 0; (186217), 2, 1, 0; (196413), 4, 1, 0; (231085), 4, 1, 0; (250393), 2, 1, 0; (263572), 1, 1, 0; (263820), 2, 1, 0; (293579), 1, 1, 0; (438319), 4, 1, 0; *[247, 74, 0∗, 2012/09/14–2015/07/14]*

D03 Rantiga Osservatorio, Tincana

M. Żołnowski, Godebskiego 55a, Cracow, Poland [michael.zolnowski@gmail.com]
Observers M. Żołnowski, G. Duszanowicz, M. Kusiak
0.4-m $f/3.8$ reflector + CCD
UCAC-4

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1.04-m $f/1.8$ Schmidt + CCD
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Observers C. W. Chen, Z. W. Zhang
Measurer Z. W. Zhang
0.41-m $f/8.8$ Ritchey-Chrétien + 2K×2K CCD + $f/6.25$ focal reducer
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2015 OZ_{30}, 3, 1, 0; 2015 ON_{70}, 3, 1, 0; *[6, 2, 0∗, 2006/08/25–2006/10/21]*

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0.4-m $f/2.5$ reflector + CCD
USNO-B1.0
(57), 3, 1, 0; (74), 2, 1, 0; (119), 2, 1, 0; (212), 3, 1, 0; (233), 3, 1, 0; (247), 4, 1, 0; (268), 2, 1, 0; (303), 6, 1, 0; (352), 2, 1, 0; (361), 3, 1, 0; (362), 3, 1, 0; (371), 3, 1, 0; (579), 2, 1, 0; (655), 3, 1, 0; (760), 3, 1, 0; (788), 2, 1, 0; (849), 3, 1, 0; (853), 3, 1, 0; (855), 2, 1, 0; (957), 3, 1, 0; (962), 2, 1, 0; (1031), 2, 1, 0; (1101), 3, 1, 0; (1353), 2, 1, 0; (1375), 3, 1, 0; (1377), 2, 1, 0; (1398), 4, 1, 0; (1469), 2, 1, 0; (1602), 2, 1, 0; (1990), 3, 1, 0; (2074), 1, 1, 0; (2222), 4, 1, 0; (2338), 3, 1, 0; (2405), 3, 1, 0; (3013), 2, 1, 0; (3055), 3, 1, 0; (3187), 3, 1, 0; (3202), 2, 1, 0; (3449), 3, 1, 0; (3924), 2, 1, 0; (4051), 2, 1, 0; (4126), 3, 1, 0; (4272), 2, 1, 0; (4273), 3, 1, 0; (4431), 2, 1, 0; (4482), 2, 1, 0; (4919), 3, 1, 0; (5037), 2, 1, 0; (5105), 2, 1, 0; (5402), 2, 1, 0; (5557), 3, 1, 0; (5641), 6, 1, 0; (5716), 2, 1, 0; (5781), 2, 1, 0; (5806), 2, 1, 0; (5981), 3, 1, 0; (6084), 3, 1, 0; (6109), 3, 1, 0; (6139), 1, 1, 0; (6189), 2, 1, 0; (6236), 6, 1, 0; (6250), 3, 1, 0; (6260), 2, 1, 0; (6282), 3, 1, 0; (6339), 2, 1, 0; (6594), 4, 1, 0; (6877), 2, 1, 0; (7087), 6, 1, 0; (7192), 4, 1, 0; (7782), 6, 1, 0; (7899), 2, 1, 0; (8070), 1, 1, 0; (8279), 3, 1, 0; (8968), 3, 1, 0; (9065), 3, 1, 0; (9297), 3, 1, 0; (9309), 2, 1, 0; (9602), 3, 1, 0; (10236), 2, 1, 0; (10451), 3, 1, 0; (10820), 2, 1, 0; (11713), 3, 1, 0; (11974), 2, 1, 0; (12150), 2, 1, 0; (12175), 2, 1, 0; (12209), 2, 1, 0; (12562), 3, 1, 0; (12713), 2, 1, 0; (12856), 6, 1, 0; (13555), 2, 1, 0; (13919), 2, 1, 0; (13969), 2, 1, 0; (13972), 3, 1, 0; (14022), 2, 1, 0; (14361), 3, 1, 0; (15142), 6, 1, 0; (16433), 5, 1, 0; (17107), 4, 1, 0; (17282), 3, 1, 0; (17619), 3, 1, 0; (17726), 3, 1, 0; (17780), 2, 1, 0; (17788), 2, 1, 0; (18005), 2, 1, 0; (18161), 3, 1, 0; (18187), 3, 1, 0; (18871), 2, 1, 0; (19706), 4, 1, 0; (21526), 3, 1, 0; (21940), 3, 1, 0; (22895), 2, 1, 0; (23051), 6, 1, 0; (23672), 4, 1, 0; (23764), 2, 1, 0; (23796), 2, 1, 0; (25732), 2, 1, 0; (25802), 2, 1, 0; (30453), 2, 1, 0; (33913), 2, 1, 0; (36081), 2, 1, 0; (36100), 2, 1, 0; (36171), 2, 1, 0; (37268), 3, 1, 0; (37623), 2, 1, 0; (37983), 4, 1, 0; (43583), 3, 1, 0; (44317), 2, 1, 0; (44527), 2, 1, 0; (44712), 2, 1, 0; (45079), 2, 1, 0; (46187), 5, 1, 0; (48623), 2, 1, 0; (49671), 2, 1, 0; (50189), 2, 1, 0; (58770), 4, 1, 0; (58902), 3, 1, 0; (59788), 2, 1, 0; (59987), 2, 1, 0; (60944), 2, 1, 0; (61052), 5, 1, 0; (65370), 2, 1, 0; (67193), 3, 1, 0; (71238), 2, 1, 0; (74146), 2, 1, 0; (80130), 3, 1, 0; (82875), 3, 1, 0; (90613), 2, 1, 0; (91185), 2, 1, 0; (99133), 3, 1, 0; (112266), 2, 1, 0; (202741), 2, 1, 0; *[412, 151, 0∗, 2015/07/12–2015/08/10]*

D90 RAS Observatory, Moorook
K. Hills, 2 Brindley Brae, Kinver, DY7 6LR, England [kevinhills@me.com] (30)
0.41-m $f/9$ Ritchey-Chrétien + CCD
UCAC-4
2015 OM, 3, 1, 0; 2015 OS, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; (60558), 9, 3, 20; *[18, 4, 0∗, 2015/07/19–2015/08/08]*

D95 Kurihara
T. Takahashi, Kurihara, Miyagi-ken, 989-5171 Japan [pxi16412@nifty.com]
0.25-m $f/4.2$ reflector + CCD
UCAC-4
(7241), 3, 1, 0; (9768), 3, 1, 0; (12772), 3, 1, 0; (13824), 3, 1, 0; (20720), 2, 1, 0; (33169), 6, 2, 15; (40831), 3, 1, 0; (48968), 2, 1, 0; (49805), 3, 1, 0; (53404), 3, 1, 0; (90454), 3, 1, 0; (103326), 3, 1, 0; (114139), 3, 1, 0; *[40, 13, 0∗, 2015/04/25–2015/05/10]*

E07 Murrumbateman
D. Herald, 3 Lupin Pl, Murrumbateman, NSW 2582, Australia [DRHerald@bigpond.net.au]
0.40-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4

2006 TC_{62}, 4, 2, 1; 2007 RM_{186}, 2, 1, 0; 2008 DH_{72}, 2, 1, 0; 2008 FK_{24}, 2, 1, 0; 2011 NG, 4, 2, 1; (9718), 2, 1, 0; (19072), 3, 1, 0; (27026), 3, 1, 0; (28132), 3, 1, 0; (29729), 2, 1, 0; (39319), 2, 1, 0; (46788), 2, 1, 0; (79235), 2, 1, 0; (129344), 2, 1, 0; (136601), 2, 1, 0; (154482), 2, 1, 0; (156145), 2, 1, 0; (161720), 2, 1, 0; (229936), 2, 1, 0; (290620), 2, 1, 0; (305468), 2, 1, 0; (308908), 4, 2, 1; (352699), 6, 3, 2; (358557), 2, 1, 0; (387049), 2, 1, 0; (396144), 4, 2, 1; (396250), 2, 1, 0; *[69, 27, 0∗, 2015/08/14–2015/08/16]*

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

2001 FW_{29}, 4, 1, 0; 2004 BF_{45}, 4, 1, 0; 2004 RN_{182}, 3, 1, 0; 2005 UX_{244}, 4, 1, 0; 2005 UX_{349}, 4, 1, 0; 2005 WP_{112}, 4, 1, 0; 2005 YF_{146}, 4, 1, 0; 2006 QS_{185}, 3, 1, 0; 2007 BR_9, 4, 1, 0; 2007 UM_{14}, 3, 1, 0; 2007 VU_{165}, 4, 1, 0; 2008 SE_{202}, 4, 1, 0; 2008 YW_{154}, 4, 1, 0; 2010 HM_{13}, 4, 1, 0; 2010 PB_{81}, 4, 1, 0; 2010 UL_{75}, 4, 1, 0; 2010 WU_{74}, 4, 1, 0; 2011 CZ_4, 3, 1, 0; 2011 VX_7, 3, 1, 0; 2011 WB_{135}, 2, 1, 0; 2012 UW_{18}, 8, 2, 31; 2013 CV_{67}, 4, 1, 0; 2013 EB_{93}, 4, 1, 0; 2014 HN_{13}, 4, 1, 0; 2014 UC_{196}, 4, 1, 0; 2014 UU_{213}, 10, 3, 1856; 2014 UJ_{214}, 4, 1, 0; 2014 VX_{11}, 4, 1, 0; 2014 VP_{15}, 3, 1, 0; 2014 WD_{26}, 3, 1, 0; 2014 WW_{97}, 4, 1, 0; 2014 WT_{101}, 4, 1, 0; 2014 WG_{109}, 8, 2, 52; 2014 WV_{169}, 4, 1, 0; 2014 WS_{200}, 7, 3, 52; 2014 WE_{253}, 8, 2, 29; 2014 WB_{279}, 2, 1, 0; 2014 WF_{306}, 11, 3, 41; 2014 WK_{319}, 4, 1, 0; 2014 WF_{358}, 4, 1, 0; 2014 WV_{388}, 7, 2, 60; 2014 WH_{394}, 8, 2, 36; 2014 WE_{396}, 4, 1, 0; 2014 WA_{423}, 8, 2, 24; 2014 WQ_{489}, 7, 2, 18; 2014 WC_{499}, 5, 1, 0; 2014 WV_{500}, 15, 4, 108; 2014 WV_{504}, 4, 1, 0; 2014 XZ_3, 6, 2, 14; 2014 XO_8, 4, 1, 0; 2014 XQ_{22}, 7, 2, 27; 2014 XR_{38}, 12, 3, 1127; 2014 YG_{17}, 4, 1, 0; 2015 BR_5, 4, 1, 0; 2015 BQ_8, 4, 1, 0; 2015 BY_{27}, 4, 1, 0; 2015 DE_{177}, 4, 1, 0; 2015 DU_{220}, 5, 1, 0; 2015 FV_{82}, 4, 1, 0; 2015 FS_{337}, 4, 1, 0; 2015 HM_{181}, 4, 1, 0; 2015 KH_7, 4, 1, 0; 2015 KA_{36}, 4, 1, 0; 2015 KL_{36}, 14, 4, 1453; 2015 KF_{42}, 10, 3, 30; 2015 KW_{51}, 4, 1, 0; 2015 KS_{52}, 8, 2, 19; 2015 KB_{120}, 2, 1, 0; 2015 KF_{132}, 4, 1, 0; 2015 KD_{134}, 4, 1, 0; 2015 KH_{145}, 12, 3, 2613; 2015 KV_{149}, 3, 1, 0; 2015 KX_{159}, 4, 1, 0; 2015 LX_8, 4, 1, 0; 2015 LC_{22}, 4, 1, 0; 2015 LP_{24}, 4, 1, 0; 2015 LF_{35}, 4, 1, 0; 2015 LR_{35}, 4, 1, 0; 2015 LT_{36}, 8, 2, 57; 2015 LP_{39}, 4, 1, 0; 2015 MD_9, 4, 1, 0; 2015 MN_{31}, 4, 1, 0; 2015 MO_{52}, 8, 2, 2234; 2015 MH_{56}, 8, 2, 26; 2015 MS_{58}, 8, 2, 19; 2015 MZ_{58}, 4, 1, 0; 2015 MG_{59}, 4, 1, 0; 2015 MY_{64}, 4, 1, 0; 2015 ML_{65}, 4, 1, 0; 2015 MH_{66}, 3, 1, 0; 2015 MQ_{67}, 4, 1, 0; 2015 MP_{68}, 4, 1, 0; 2015 MK_{73}, 4, 1, 0; 2015 MM_{78}, 3, 1, 0; 2015 MU_{91}, 4, 1, 0; 2015 MX_{97}, 4, 1, 0; 2015 MZ_{109}, 4, 1, 0; 2015 MV_{113}, 4, 1, 0; 2015 MX_{116}, 4, 1, 0; 2015 NW_3, 8, 2, 23; 2015 NM_{14}, 8, 2, 20; 2015 NK_{16}, 8, 2, 30; 2015 NM_{21}, 4, 1, 0; 2015 NT_{25}, 2, 1, 0; 2015 OP_{14}, 4, 1, 0; 2015 ON_{25}, 4, 1, 0; 2015 OP_{28}, 3, 1, 0; 2015 OS_{29}, 4, 1, 0; 2015 OA_{31}, 6, 2, 51; 2015 OS_{32}, 4, 1, 0; 2015 OS_{34}, 4, 1, 0; 2015 OC_{46}, 4, 1, 0; 2015 OK_{47}, 12, 3, 1449; 2015 OB_{50}, 4, 1, 0; 2015 OT_{65}, 4, 1, 0; 2015 OB_{66}, 7, 2, 989; 2015 OF_{67}, 3, 1, 0; 2015 OK_{73}, 4, 1, 0; 2015 ON_{75}, 11, 3, 29; 2015 OE_{76}, 4, 1, 0; 2015 OP_{78}, 4, 1, 0; 2015 PA, 3, 1, 0; 2015 PH, 4, 1, 0; 2015 PZ_1, 8, 2, 1814; 2015 PO_3, 4, 1, 0; 2015 PS_3, 12, 3, 33; 2015 PC_4, 4, 1, 0; 2015 PY_8, 7, 2, 23; 2015 PW_{31}, 3, 1, 0; 2015 PO_{34}, 8, 2, 1470; 2015 PA_{60}, 6, 2, 36; 2015 PU_{143}, 4, 1, 0; 2015 PK_{230}, 8, 2, 1451; (439012), 5, 1, 0; (439819), 4, 1, 0; *[688, 135, 0∗, 2004/03/19–2013/07/27]*

E17 Leura

J. Oey, 94 Rawson Pde., Leura, NSW 2780, Australia [julianoey1@optusnet.com.au]

0.35-m Schmidt-Cassegrain + CCD
UCAC-2

(438105), 1, 1, 0; *[1, 1, 0∗, 2007/08/11]*

E21 Norma Rose Observatory, Leyburn

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

Observers J. Riffle, W. K. Y. Yeung
0.45-m $f/3$ reflector + CCD
GSC-ACT

2015 BY_{27}, 7, 2, 1; *[7, 1, 0∗, 2003/08/03–2003/08/04]*

E23 Arcadia

A. Hidas, 31 Geelans Rd, Arcadia NSW 2159, Australia [ash255@tpg.com.au]

0.35-m $f/7.0$ Schmidt-Cassegrain + CCD
UCAC-4

2015 NF, 6, 2, 1; 2015 NA_{14}, 5, 1, 0; 2015 OH, 3, 1, 0; 2015 OM, 6, 2, 2; 2015 OA_{26}, 3, 1, 0; 2015 OJ_{26}, 6, 1, 0; 2015 PA, 4, 1, 0; 2015 PB, 2, 1, 0; 2015 PQ, 4, 1, 0; 2015 PK_9, 10, 2, 1; 2015 QJ, 2, 1, 0; 2015 QN_3, 3, 1, 0; *[54, 12, 0∗, 2015/07/05–2015/08/20]*

E85 Farm Cove

J. McCormick, 2/4 Rapallo Place, Farm Cove, Pakuranga, Auckland, New Zealand [farmcoveobs@xtra.co.nz]

Observers J. McCormick, J. K. Drummond
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4

(53341), 4, 1, 0; (85738), 2, 1, 0; (134340), 3, 1, 0; *[9, 3, 0∗, 2015/07/11–2015/07/13]*

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 B. Gibson, T. Goggia, N. Primak, A. Schultz, M. Willman
Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk, P. Veres, M. Micheli
1.8-m Ritchey-Chrétien + CCD
2MASS, PPMXL

1981 EN_{35}, 4, 1, 0; 1988 NE, 7, 2, 4; 1995 CO_2, 4, 1, 0; 1995 OO_5, 4, 1, 0; 1995 SQ_{12}, 11, 3, 462; 1995 SZ_{34}, 3, 1, 0; 1995 SM_{62}, 4, 1, 0; 1995 SH_{67}, 4, 1, 0; 1995 SS_{73}, 11, 3, 2; 1995 TN_3, 3, 1, 0; 1995 UV_{42}, 13, 4, 24; 1995 VW_{11}, 7, 1, 0; 1995 WY_{40}, 7, 2, 3; 1996 AC_{10}, 14, 4, 19; 1996 LG_3, 3, 1, 0; 1996 TS_{36}, 11, 3, 24; 1996 TX_{51}, 7, 2, 12; 1997 EU_9, 7, 2, 3; 1997 GZ_{30}, 8, 2, 1; 1997 JS_3, 6, 2, 7; 1997 KY_1, 12, 3, 18; 1997 SE_6, 4, 1, 0; 1997 SB_{33}, 11, 3, 27; 1997 TB_{20}, 9, 3, 40; 1997 WW, 4, 1, 0; 1997 WM_6, 3, 1, 0; 1998 KL_{10}, 7, 2, 9; 1998 QR_{29}, 4, 1, 0; 1998 RN_1, 3, 1, 0; 1998 RF_{26}, 2, 1, 0; 1998 SL_6, 4, 1, 0; 1998 SY_7, 8, 2, 24; 1998 TB_3, 3, 1, 0; 1998 TK_3, 8, 2, 3; 1998 WP_{25}, 8, 2, 1; 1998 WX_{29}, 14, 4, 38; 1998 WF_{40}, 4, 1, 0; 1998 XD_4, 11, 3, 7; 1998 XF_7, 4, 1, 0; 1998 XR_{98}, 13, 4, 10; 1998 YJ_{13}, 10, 3, 22; 1999 ND_5, 3, 1, 0; 1999 RF_9, 7, 2, 2; 1999 RG_{31}, 8, 2, 9; 1999 RN_{213}, 20, 6, 16; 1999 SL_1, 4, 1, 0; 1999 SZ_{20}, 3, 1, 0; 1999 SW_{22}, 6, 1, 0; 1999 TT_{45}, 6, 2, 3; 1999 TH_{50}, 10, 2, 27; 1999 TL_{54}, 4, 1, 0; 1999 TT_{56}, 4, 1, 0; 1999 TQ_{68}, 3, 1, 0; 1999 TW_{81}, 4, 1, 0; 1999 TD_{138}, 3, 1, 0; 1999 TP_{211}, 3, 1, 0; 1999 TN_{296}, 8, 2, 24; 1999 TB_{302}, 23, 5, 462; 1999 TM_{309}, 4, 1, 0; 1999 UB_{18}, 3, 1, 0; 1999 VF, 4, 1, 0; 1999 VA_{76}, 4, 1, 0; 1999 VK_{76}, 3, 1, 0; 1999 VC_{85}, 4, 1, 0; 1999 VS_{91}, 3, 1, 0; 1999 VP_{101}, 2, 1, 0; 1999 VA_{102}, 12, 3, 3; 1999 VZ_{106}, 3, 1, 0; 1999 VL_{110}, 7, 2, 11; 1999 VH_{113}, 3, 1, 0; 1999 VK_{118}, 4, 1, 0; 1999 VC_{120}, 4, 1, 0; 1999 VU_{121}, 3, 1, 0; 1999 VA_{122}, 12, 3, 18; 1999 VP_{129}, 3, 1, 0; 1999 VP_{142}, 13, 4, 28; 1999 VB_{153}, 9, 3, 29; 1999 VX_{165}, 4, 1, 0; 1999 VM_{196}, 6, 2, 24; 1999 WF_{14}, 4, 1, 0; 1999 XZ_{145}, 7, 2, 1; 1999 XC_{146}, 10, 3, 17; 1999 XM_{187}, 4, 1, 0; 1999 XV_{223}, 16, 5, 42; 1999 XE_{250}, 6, 2, 3; 1999 YZ_{12}, 7, 2, 29; 2000 AO, 8, 2, 7; 2000 AB_4, 4, 1, 0; 2000 AW_{93}, 6, 2, 29; 2000 AT_{221}, 5, 1, 0; 2000 BY_{18}, 4, 1, 0; 2000 CD_{32}, 6, 2, 21; 2000 CL_{59}, 6, 2, 16; 2000 DT_{17}, 3, 1, 0; 2000 HV_{80}, 4, 1, 0; 2000 JJ_5, 4, 1, 0; 2000 NO_1, 7, 2, 18; 2000 OP_{60}, 14, 4, 1520; 2000 QC_{33}, 4, 1, 0; 2000 QP_{110}, 19, 6, 1463; 2000 QA_{133}, 11, 2, 1; 2000 RJ_{60}, 2, 1, 0; 2000 RG_{84}, 13, 3, 25; 2000 SZ_{37}, 4, 1, 0; 2000 SO_{174}, 4, 1, 0; 2000 SN_{184}, 4, 1, 0; 2000 SZ_{207}, 3, 1, 0; 2000 ST_{249}, 18, 5, 8; 2000 SK_{326}, 6, 2, 16; 2000 TU_1, 4, 1, 0; 2000 UA_{13}, 8, 2, 3; 2000 UK_{13}, 4, 1, 0; 2000 UF_{56}, 4, 1, 0; 2000 WB_5, 4, 1, 0; 2000 WK_{24}, 8, 2, 1; 2000 WW_{28}, 3, 1, 0; 2000 WR_{45}, 6, 2, 22; 2000 WR_{56}, 3, 1, 0; 2000 WO_{68}, 3, 1, 0; 2000 WY_{136}, 8, 2, 1; 2000 WG_{170}, 7, 1, 0; 2000 WB_{192}, 8, 2, 2; 2000 XH_{11}, 8, 2, 1; 2000 XH_{47}, 4, 1, 0; 2000 YX_{133}, 12, 3, 9; 2001 AD_{44}, 2, 1, 0; 2001 BZ_{15}, 4, 1, 0; 2001 CR_{36}, 3, 1, 0; 2001 DY_8, 11, 2, 19; 2001 EC_{16}, 8, 1, 0; 2001 FW_{29}, 20, 6, 557; 2001 FZ_{84}, 11, 3, 25; 2001 FD_{87}, 2, 1, 0; 2001 FP_{108}, 4, 1, 0; 2001 FM_{119}, 5, 2, 15; 2001 FU_{134}, 4, 1, 0; 2001 FS_{151}, 3, 1, 0; 2001 FQ_{204}, 6, 2, 1; 2001 FR_{227}, 7, 2, 40; 2001 MQ_{21}, 4, 1, 0; 2001 NB_{19}, 8, 2, 1; 2001 OF_{30}, 4, 1, 0; 2001 OK_{36}, 16, 5, 29; 2001 OT_{77}, 15, 5, 28; 2001 OK_{78}, 12, 3, 40; 2001 OQ_{78}, 6, 2, 1; 2001 OD_{91}, 14, 3, 1343; 2001 OJ_{113}, 7, 2, 8; 2001 PC, 3, 1, 0; 2001 PV_{15}, 10, 3, 909; 2001 PG_{42}, 3, 1, 0; 2001 QY_{53}, 4, 1, 0; 2001 QQ_{69}, 12, 3, 27; 2001 QB_{98}, 8, 2, 1; 2001 QX_{115}, 5, 2, 4; 2001 QF_{132}, 8, 1, 0; 2001 QY_{150}, 12, 3, 37; 2001 QK_{171}, 19, 5, 22; 2001 QM_{172}, 15, 4, 10; 2001 QE_{213}, 4, 1, 0; 2001 QO_{216}, 4, 1, 0; 2001 QY_{225}, 15, 4, 15; 2001 QM_{226}, 4, 1, 0; 2001 QX_{255}, 18, 3, 8; 2001 QE_{261}, 4, 1, 0; 2001 QY_{264}, 18, 5, 38; 2001 QY_{271}, 4, 1, 0; 2001 QM_{290}, 4, 1, 0; 2001 RB_{12}, 3, 1, 0; 2001 RH_{12}, 8, 2, 2; 2001 RV_{22}, 10, 3, 38; 2001 RF_{24}, 10, 3, 8; 2001 RK_{29}, 7, 2, 28; 2001 RF_{42}, 3, 1, 0; 2001 RT_{46}, 16, 5, 34; 2001 RK_{50}, 8, 2, 4; 2001 RW_{59}, 10, 3, 40; 2001 RD_{104}, 11, 2, 7; 2001 RQ_{108}, 7, 2, 994; 2001 RE_{129}, 9, 3, 28; 2001 RY_{145}, 4, 1, 0; 2001 RW_{149}, 3, 1, 0; 2001 SC_{11}, 7, 2, 476; 2001 SN_{12}, 7, 2, 61; 2001 SM_{27}, 16, 4, 26; 2001 SY_{30}, 4, 1, 0; 2001 SY_{34}, 3, 1, 0; 2001 SB_{38}, 4, 1, 0; 2001 SX_{77}, 11, 3, 33; 2001 SP_{89}, 3, 1, 0; 2001 SS_{97}, 7, 2, 41; 2001 SX_{102}, 4, 1, 0; 2001 SZ_{119}, 8, 2, 1; 2001 SK_{121}, 12, 2, 3; 2001 SH_{127}, 3, 1, 0; 2001 SD_{132}, 19, 5, 29; 2001 SO_{152}, 3, 1, 0; 2001 SJ_{165}, 7, 2, 7; 2001 SY_{195}, 3, 1, 0; 2001 ST_{197}, 3, 1, 0; 2001 SX_{207}, 4, 1, 0; 2001 SY_{213}, 4, 1, 0; 2001 SM_{222}, 4, 1, 0; 2001 SL_{225}, 12, 3, 7; 2001 SX_{225}, 11, 3, 24;

2001 SG_{226}, 4, 1, 0; 2001 SC_{235}, 3, 1, 0; 2001 SV_{243}, 2, 1, 0; 2001 SV_{246}, 7, 2, 27; 2001 SX_{255}, 11, 3, 12; 2001 SL_{267}, 7, 1, 0; 2001 SE_{269}, 8, 2, 20; 2001 SB_{293}, 2, 1, 0; 2001 SB_{298}, 11, 3, 24; 2001 SH_{300}, 4, 1, 0; 2001 SY_{300}, 4, 1, 0; 2001 SD_{305}, 7, 2, 18; 2001 SO_{305}, 3, 1, 0; 2001 SO_{309}, 4, 1, 0; 2001 SG_{318}, 12, 3, 28; 2001 SK_{323}, 12, 2, 14; 2001 SD_{338}, 22, 5, 25; 2001 SB_{339}, 3, 1, 0; 2001 SY_{349}, 3, 1, 0; 2001 SJ_{355}, 9, 3, 16; 2001 TU_6, 6, 2, 1; 2001 TB_{25}, 3, 1, 0; 2001 TV_{54}, 10, 3, 5; 2001 TJ_{55}, 3, 1, 0; 2001 TJ_{59}, 7, 2, 3; 2001 TS_{61}, 6, 2, 18; 2001 TT_{99}, 8, 2, 1; 2001 TR_{103}, 4, 1, 0; 2001 TV_{104}, 8, 1, 0; 2001 TK_{109}, 4, 1, 0; 2001 TV_{141}, 3, 1, 0; 2001 TZ_{146}, 4, 1, 0; 2001 TO_{163}, 2, 1, 0; 2001 TN_{173}, 7, 2, 27; 2001 TX_{173}, 8, 2, 7; 2001 TS_{183}, 3, 1, 0; 2001 TD_{186}, 8, 2, 7; 2001 TX_{189}, 20, 6, 38; 2001 TO_{199}, 4, 1, 0; 2001 TG_{205}, 4, 1, 0; 2001 TB_{213}, 3, 1, 0; 2001 TQ_{232}, 11, 3, 20; 2001 TQ_{235}, 14, 3, 9; 2001 TK_{237}, 3, 1, 0; 2001 TE_{254}, 3, 1, 0; 2001 UK_{31}, 3, 1, 0; 2001 UW_{45}, 3, 1, 0; 2001 UM_{53}, 10, 2, 28; 2001 UT_{55}, 10, 3, 19; 2001 UY_{67}, 3, 1, 0; 2001 UN_{95}, 3, 1, 0; 2001 UM_{98}, 4, 1, 0; 2001 UX_{104}, 3, 1, 0; 2001 UX_{135}, 4, 1, 0; 2001 UF_{136}, 7, 2, 27; 2001 UB_{143}, 3, 1, 0; 2001 UC_{148}, 7, 2, 9; 2001 UF_{149}, 4, 1, 0; 2001 UO_{159}, 4, 1, 0; 2001 UV_{166}, 3, 1, 0; 2001 UQ_{190}, 8, 2, 20; 2001 UN_{194}, 8, 2, 28; 2001 UY_{197}, 7, 2, 6; 2001 UU_{214}, 3, 1, 0; 2001 UT_{228}, 3, 1, 0; 2001 UF_{229}, 3, 1, 0; 2001 UL_{229}, 7, 2, 8; 2001 US_{229}, 10, 3, 24; 2001 UB_{232}, 4, 1, 0; 2001 VO_3, 4, 1, 0; 2001 VG_8, 7, 2, 1; 2001 VX_{26}, 4, 1, 0; 2001 VF_{60}, 2, 1, 0; 2001 VR_{83}, 3, 1, 0; 2001 VP_{109}, 12, 3, 27; 2001 VZ_{129}, 7, 2, 19; 2001 VU_{133}, 4, 1, 0; 2001 VC_{134}, 3, 1, 0; 2001 WH_{15}, 8, 2, 32; 2001 WG_{21}, 7, 2, 28; 2001 WF_{32}, 11, 3, 2; 2001 WT_{53}, 8, 2, 7; 2001 WQ_{55}, 3, 1, 0; 2001 WC_{56}, 12, 3, 18; 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F52 Pan-STARRS 2, Haleakala

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Observers B. Gibson, T. Goggia, N. Primak, A. Schultz, M. Willman
Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk, P. Veres
1.8-m Ritchey-Chrétien + CCD
2MASS, PPMXL

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F65 Haleakala-Faulkes Telescope North

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. (14)
Observers T. Lister, M. Altmann, T. Boroson
Measurers T. Lister, C. Barache, S. Bouquillon, T. Carlucci, F. Taris
2.0-m Ritchey-Chrétien + CCD
PPMXL

2008 WQ_5, 14, 1, 0; 2013 XK_{22}, 3, 1, 0; 2015 HM_{10}, 10, 1, 0; 2015 MQ_{130}, 3, 1, 0; (67965), 14, 1, 0; *[44, 5, 0∗, 2015/06/27–2015/08/21]*

G27 Fabra Observatory, Montsec

J. Nuñez, Fabra Observatory, E-08035 Barcelona, Spain [jorge@am.ub.es]
Observers J. Nuñez, J. L. Muinos, O. Fors, F. J. Montojo, R. Baena, J. Boloix
Measurer J. Nuñez
0.50-m $f/0.96$ Baker-Nunn + CCD
UCAC-2

(931), 2, 1, 0; (2288), 4, 1, 0; (2421), 1, 1, 0; (4058), 2, 1, 0; (4455), 1, 1, 0; (5892), 2, 1, 0; (17248), 4, 1, 0; (28943), 3, 1, 0; (38165), 3, 1, 0; (49427), 2, 1, 0; *[24, 10, 0∗, 2014/12/18–2015/01/23]*

G30 Casselman

S. Bergeron, 654 Place Des Epinettes, Casselman, ON K0A1M0, Canada
[astrosberge@yahoo.ca]
0.30-m $f/5$ Ritchey-Chrétien + CCD
UCAC-4

(21885), 4, 1, 0; (27801), 3, 1, 0; (44827), 3, 1, 0; (46321), 3, 1, 0; (50265), 1, 1, 0; (58163), 2, 1, 0; (59656), 2, 1, 0; (60558), 3, 1, 0; (93945), 2, 1, 0; (113592), 1, 1, 0; (117035), 2, 1, 0; (152968), 3, 1, 0; (164034), 3, 1, 0; (248424), 3, 1, 0; (265005), 2, 1, 0; (281074), 4, 1, 0; *[41, 16, 0∗, 2015/08/23]*

G31 CCAT Trieste

M. Magris, Ostello Scout Alpe Adria, Trieste, Italy [sadalmelik@hotmail.it]
Observers M. Magris, S. Schirinzi
0.2-m $f/4$ reflector + CCD
USNO-A2.0

(57), 4, 2, 1; (183), 4, 2, 5; (194), 2, 1, 0; (276), 2, 1, 0; (304), 2, 1, 0; (313), 2, 1, 0; (631), 2, 1, 0; (667), 2, 1, 0; (790), 4, 2, 1; (849), 4, 2, 1; (1031), 3, 2, 1; (1353), 2, 1, 0; *[33, 12, 0∗, 2015/07/04–2015/08/04]*

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

2002 OZ_{17}, 4, 1, 0; 2002 PH_{163}, 3, 1, 0; 2002 TA_{68}, 3, 1, 0; 2003 SD_{340}, 11, 3, 10; 2003 WG_{114}, 2, 1, 0; 2004 TQ_{126}, 16, 4, 17; 2005 WM_{90}, 3, 1, 0; 2006 ED_{20}, 4, 1, 0; 2006 GQ_{30}, 7, 2, 1; 2006 SX_{76}, 7, 2, 2; 2006 VO_{28}, 3, 1, 0; 2007 HF_{28}, 4, 1, 0; 2007 RS_{116}, 2, 1, 0; 2007 TV_{80}, 4, 1, 0; 2007 TJ_{145}, 8, 2, 1; 2007 XF_{11}, 3, 1, 0; 2007 XL_{16}, 6, 2, 22; 2008 OO_3, 6, 2, 1; 2008 TF_5, 8, 2, 2; 2008 TQ_{110}, 4, 1, 0; 2008 UV_{77}, 9, 3, 7; 2008 UB_{117}, 3, 1, 0; 2008 UC_{208}, 2, 1, 0; 2008 UU_{315}, 3, 1, 0; 2009 CD_{39}, 3, 1, 0; 2010 GC_{106}, 3, 1, 0; 2010 LO_{101}, 4, 1, 0; 2010 NW_{65}, 7, 2, 1; 2010 ND_{104}, 4, 2, 1; 2010 OB_{42}, 19, 3, 2; 2010 TU_{183}, 4, 1, 0; 2011 FA_{147}, 8, 2, 11; 2011 GW_{31}, 8, 2, 8; 2011 HM_{12}, 9, 3, 5; 2011 HS_{70}, 9, 3, 2; 2011 KP_{42}, 3, 1, 0; 2011 OW, 13, 3, 2; 2011 QO_{36}, 6, 2, 1; 2011 QB_{62}, 4, 1, 0; 2011 SV_{85}, 12, 3, 5; 2011 SF_{90}, 4, 1, 0; 2011 SU_{241}, 10, 3, 3; 2011 UP_{95}, 6, 2, 1; 2011 UU_{159}, 8, 2, 1; 2011 XQ_1, 3, 1, 0; 2012 TC_9, 4, 1, 0; 2012 TQ_{291}, 15, 5, 16; 2012 UJ_{83}, 3, 1, 0; 2012 UN_{116}, 2, 1, 0; 2013 AU_{118}, 5, 1, 0; 2013 XF_{10}, 10, 3, 3; 2014 DO_{120}, 3, 1, 0; 2014 DL_{137}, 9, 2, 4; 2014 EY_6, 3, 1, 0; 2015 HY_{181}, 4, 1, 0; 2015 LZ_{30}, 2, 1, 0; 2015 LZ_{32}, 10, 3, 12; 2015 LL_{34}, 4, 1, 0; 2015 LO_{34}, 8, 2, 1; 2015 ME_{45}, 6, 2, 2; 2015 MD_{50}, 7, 2, 2; 2015 MC_{58}, 11, 3, 2; 2015 MU_{58}, 3, 1, 0; 2015 MA_{109}, 8, 2, 1; 2015 MD_{116}, 7, 2, 1; 2015 MN_{126}, 11, 3, 2; 2015 MZ_{128}, 11, 3, 7; 2015 NM_4 *, 9, 3, 15; 2015 NO_4 *, 14, 4, 13; 2015 NP_4 *, 11, 3, 15; 2015 NQ_4 *, 15, 4, 14; 2015 NR_4 *, 14, 4, 21; 2015 NZ_4 *, 19, 6, 13; 2015 NY_5 *, 7, 2, 1; 2015 NZ_5 *, 17, 5, 25; 2015 NA_6 *, 10, 3, 6; 2015 NQ_9 *, 11, 3, 11; 2015 NR_9 *, 14, 5, 13; 2015 NO_{12} *, 9, 2, 1; 2015 NP_{12} *, 9, 2, 1; 2015 NQ_{12} *, 11, 3, 8; 2015 NT_{12} *, 11, 3, 7; 2015 NG_{14} *, 12, 3, 7; 2015 NH_{14} *, 8, 2, 3; 2015 NJ_{14} *, 14, 4, 13; 2015 NK_{14} *, 11, 3, 11; 2015 NV_{14} *, 12, 3, 5; 2015 NA_{23} *, 6, 2, 4; 2015 NA_{24} *, 10, 3, 10; 2015 NB_{24} *, 11, 3, 2; 2015 NC_{24} *, 8, 2, 2; 2015 ND_{24} *, 11, 3, 5; 2015 OC *, 9, 3, 8; 2015 OD *, 7, 2, 1; 2015 OE *, 14, 4, 3; 2015 OF, 4, 1, 0; 2015 OH, 4, 1, 0; 2015 OM, 3, 1, 0; 2015 OS, 4, 1, 0; 2015 OY *, 11, 3, 8; 2015 OD_1 *, 10, 3, 3; 2015 OE_1 *, 7, 2, 1; 2015 OF_1 *, 11, 3, 7; 2015 OG_1 *, 10, 3, 4; 2015 OT_1 *, 12, 4, 3; 2015 OK_3 *, 10, 3, 7; 2015 OF_{21} *, 7, 2, 1; 2015 OG_{21} *, 6, 2, 1; 2015 OH_{21} *, 12, 3, 2; 2015 OJ_{21} *, 11, 3, 2; 2015 OP_{23} *, 13, 4, 8; 2015 OQ_{23} *, 8, 3, 2; 2015 OO_{25} *, 9, 3, 3; 2015 OP_{25} *, 14, 3, 2; 2015 OQ_{25} *, 9, 3, 2; 2015 OR_{25} *, 10, 3, 2; 2015 OS_{25} *, 7, 2, 1; 2015 OT_{25} *, 9, 3, 2; 2015 OW_{25} *, 11, 3, 7; 2015 OX_{25} *, 9, 3, 20; 2015 OY_{25} *, 5, 2, 1; 2015 ON_{26} *, 9, 3, 5; 2015 OM_{31}, 5, 1, 0; 2015 OK_{33} *, 7, 2, 1; 2015 OL_{33} *, 6, 2, 1; 2015 OM_{33} *, 7, 2, 1; 2015 ON_{33} *, 7, 2, 1; 2015 OP_{33} *, 6, 2, 1; 2015 OQ_{33} *, 11, 4, 22; 2015 OX_{33} *, 5, 2, 1; 2015 OR_{35}, 6, 2, 1; 2015 OG_{42} *, 6, 2, 2; 2015 OK_{42} *, 9, 3, 14; 2015 OM_{47} *, 9, 3, 17; 2015 OD_{55}, 6, 2, 1; 2015 OY_{56}, 6, 2, 1; 2015 OA_{57}, 7, 2, 4; 2015 PY *, 7, 2, 3; 2015 PS_8 *, 8, 3, 16; 2015 PU_{254} *, 7, 2, 2; 2015 PV_{254} *, 6, 2, 2; 2015 PB_{281} *, 6, 2, 1; 2015 PL_{292} *, 6, 2, 2; 2015 QQ_7 *, 6, 2, 1; 2015 QP_9 *, 7, 2, 1; (427), 5, 1, 0; (488), 4, 1, 0; (1158), 12, 3, 3; (1296), 4, 1, 0; (1304), 4, 1, 0; (1338), 4, 1, 0; (1406), 13, 3, 2; (1771), 10, 2, 12; (2182), 8, 2, 1; (3051), 4, 1, 0; (3071), 4, 1, 0; (3141), 8, 2, 7; (3270), 4, 1, 0; (3390), 43, 10, 15; (3607), 16, 4, 3; (3790), 4, 1, 0; (5255), 4, 1, 0; (5300), 4, 1, 0; (6336), 4, 1, 0; (6396), 7, 2, 20; (6810), 5, 1, 0; (7382), 3, 1, 0; (7642), 4, 1, 0; (7739), 4, 1, 0; (7908), 6, 1, 0; (8020), 4, 1, 0; (8232), 4, 1, 0; (8296), 12, 3, 9; (9718), 8, 2, 1; (11325), 4, 1, 0; (11993), 21, 5, 4; (12402), 5, 1, 0; (13176), 3, 1, 0; (15186), 4, 1, 0; (15353), 4, 1, 0; (15695), 16, 4, 4; (15792), 4, 1, 0; (15805), 4, 1, 0; (16078), 8, 2, 7; (16358), 8, 2, 3; (17014), 5, 1, 0; (17862), 4, 1, 0; (18074), 18, 4, 8; (18565), 3, 1, 0; (19175), 4, 1, 0; (19734), 3, 1, 0; (20233), 4, 1, 0; (21089), 3, 1, 0; (21222), 9, 2, 1; (21383), 5, 1, 0; (21598), 10, 2, 1; (21835), 4, 1, 0; (21942), 5, 1, 0; (22901), 5, 1, 0; (24040), 8, 2, 1; (24489), 9, 2, 3; (25537), 4, 1, 0; (26818), 5, 1, 0; (26902), 4, 1, 0; (27033), 8, 2, 12; (27064), 5, 1, 0; (27548), 16, 4, 9; (28168), 18, 3, 2; (29006), 16, 4, 20; (29601), 9, 2, 4; (29834), 8, 2, 1; (30552), 16, 4, 13; (30586), 4, 1, 0; (31371), 12, 3, 2; (32507), 8, 2, 4; (33564), 2, 1, 0; (33662), 4, 1, 0; (34216), 4, 1, 0; (34239), 8, 2, 1; (34762), 4, 1, 0; (40641), 4, 1, 0; (40956), 16, 4, 13; (40969), 12, 3, 7; (41058), 5, 1, 0; (41852), 9, 2, 1; (42194), 4, 1, 0; (42440), 4, 1, 0; (42560), 4, 1, 0; (42842), 12, 3, 2; (43019), 4, 1, 0; (43022), 12, 3, 2; (43126), 3, 1, 0; (44155), 5, 1, 0; 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(73834), 16, 4, 3; (75654), 5, 1, 0; (76111), 4, 1, 0; (76334), 5, 1, 0; (76349), 4, 1, 0; (76474), 14, 3, 3; (77321), 10, 2, 3; (77412), 14, 4, 4; (78615), 8, 2, 6; (79384), 4, 1, 0; (80349), 5, 1, 0; (80476), 4, 1, 0; (82907), 5, 1, 0; (83168), 4, 1, 0; (85154), 9, 2, 7; (85277), 18, 4, 7; (85500), 4, 1, 0; (85503), 4, 1, 0; (85902), 4, 1, 0; (86233), 8, 2, 2; (86477), 6, 2, 1; (86539), 17, 4, 10; (88080), 4, 1, 0; (88195), 3, 1, 0; (88908), 12, 3, 3; (88919), 4, 1, 0; (89162), 4, 1, 0; (89264), 8, 2, 1; (89423), 7, 2, 5; (89525), 4, 1, 0; (89828), 7, 2, 8; (90210), 8, 2, 1; (91448), 5, 1, 0; (92119), 5, 1, 0; (92144), 4, 1, 0; (92191), 5, 1, 0; (92624), 4, 1, 0; (92780), 7, 2, 2; (93757), 4, 1, 0; (95258), 4, 1, 0; (97568), 4, 1, 0; (98987), 5, 1, 0; (99102), 5, 1, 0; (99822), 4, 1, 0; (101091), 8, 2, 3; (101124), 4, 1, 0; (101385), 4, 1, 0; (102766), 13, 3, 6; (104218), 4, 1, 0; (104238), 3, 1, 0; (104295), 5, 1, 0; (105598), 4, 1, 0; (105877), 3, 1, 0; (105978), 4, 1, 0; (106173), 8, 2, 3; 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G34 Oberfrauendorf

T. Felber, Oberfrauendorf, An der Lockwitz 52 Oberfrauendorf, Germany
[tobi.23@gmx.de]

0.25-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
UCAC-4

2010 PR_{66}, 5, 2, 25; 2012 TM_{139}, 4, 1, 0; 2015 JY_1, 4, 1, 0; 2015 NA_{14}, 4, 1, 0; (7822), 3, 1, 0; (85989), 5, 1, 0; (206378), 4, 1, 0; (348400), 3, 1, 0; *[32, 8, 0*, 2015/07/11–2015/08/26]*

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

2015 MS_{47}, 11, 1, 0; 2015 MM_{84}, 9, 1, 0; 2015 OB_{38}, 19, 3, 17; *[39, 3, 0*, 2013/02/04–2014/04/28]*

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 N. Moskovitz, H. Larson
Measurer A. Thirouin
4.3-m Lowell Observatory Discovery Channel telescope + CCD
USNO-B1.0
2015 QB, 7, 1, 0; *[7, 1, 0∗, 2015/08/18]*

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)
J. L. Tuten, P.O. Box 986, Clinton, AR 72031, U.S.A. [kep186f@unseen.is] (12)
Observers B. Lütkenhöner, P. Cox, J. Tuten, J. L. Tuten, M. Kumrucu-Lohmiller, A. J. Evans, A. D. Paul, C. Feliciano, J. Koshkin, R. E. Walker, D. Syers
0.5-m f/6.8 Corrected Dall-Kirkham + CCD, 0.43-m f/6.8 Corrected Dall-Kirkham + CCD
UCAC-4, PPMXL

{10} 2015 FS_{332}, 7, 2, 18; 2015 NK_{13}, 7, 2, 20; (436724), 2, 1, 0; *[16, 3, 0∗, 2015/07/27–2015/08/22]*

{12} 2015 NZ_{13}, 13, 4, 8; 2015 PV_{228}, 3, 1, 0; 2015 QB_9, 3, 1, 0; *[19, 3, 0∗, 2015/07/24–2015/08/24]*

{3} 2005 VU_{49}, 4, 1, 0; 2006 SA_{32}, 2, 1, 0; 2008 VD_{64}, 7, 2, 6; 2015 NS_{13}, 4, 1, 0; 2015 PQ, 3, 1, 0; 2015 PV_{228}, 3, 1, 0; 2015 QO_3, 3, 1, 0; (112993), 4, 1, 0; (127976), 2, 1, 0; (209651), 2, 1, 0; (344109), 2, 1, 0; *[36, 11, 0∗, 2015/07/30–2015/08/25]*

{9} 2015 NF, 2, 1, 0; 2015 NZ_{13}, 2, 1, 0; 2015 NA_{14}, 2, 1, 0; 2015 OS_{35}, 2, 1, 0; 2015 PT, 2, 1, 0; 2015 PU_{228}, 3, 1, 0; (974), 3, 1, 0; (1261), 2, 1, 0; (1412), 2, 1, 0; (4440), 4, 1, 0; (6109), 3, 1, 0; (7791), 4, 1, 0; (11406), 3, 1, 0; (22113), 2, 1, 0; (36204), 2, 1, 0; (42719), 5, 1, 0; (50265), 2, 1, 0; (52229), 2, 1, 0; (61450), 3, 1, 0; (68246), 3, 1, 0; (86028), 2, 1, 0; (93945), 3, 1, 0; (94962), 3, 1, 0; (115744), 3, 1, 0; (154429), 3, 1, 0; (155334), 3, 1, 0; (175767), 3, 1, 0; (191955), 2, 1, 0; *[75, 28, 0∗, 2015/07/06–2015/08/26]*

G44 Observatorio Longa Vista, Sao Paulo
A. C. B. Oliveira, Rua Grecia 197, Sao Paulo, SP 01450-010, Brazil [cal@longavista.com.br]
0.40-m Ritchey-Chrétien + CCD
UCAC-4
(442), 3, 1, 0; *[3, 1, 0∗, 2015/07/21]*

G45 Space Surveillance Telescope, Atom Site
M. Harvanek, MIT Lincoln Laboratory ETS Field Site, P.O. BOX 1707, Stallion Range Center, Bldg. 34560, Socorro NM 87801, U.S.A. [michael.harvanek@ll.mit.edu]
Observers L. Banks, M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, W. Robertson, G. Spitz
Measurers C. Byun, M. Cornell, M. Goldberg, A. Klein, J. Ruprecht, G. Ushomirsky, J. Varey, H. Viggh, D. Woods
3.5-m f/1 reflector + CCD
SSTRC4

1988 NE, 9, 2, 1; 1994 RD_7, 12, 2, 24; 1995 OO_5, 4, 1, 0; 1995 SS_{73}, 4, 1, 0; 1996 TS_{36}, 4, 1, 0; 1997 KY_1, 51, 7, 31; 1998 QR_{29}, 5, 1, 0; 1998 RF_{26}, 36, 5, 28; 1998 RJ_{54}, 4, 1, 0; 1998 SF_{110}, 13, 2, 2; 1998 TK_3, 4, 1, 0; 1998 WP_{25}, 5, 1, 0; 1998 WX_{29}, 26, 5, 19; 1998 XF_7, 8, 2, 1; 1999 RN_{213}, 5, 1, 0; 1999 VL_{110}, 5, 1, 0; 1999 XC_{146}, 4, 1, 0; 2000 AO, 8, 1, 0; 2000 AB_4, 4, 1, 0; 2000 JU_{91}, 30, 5, 27; 2000 MO_6, 22, 4, 32; 2000 OP_{60}, 4, 1, 0; 2000 QP_{110}, 12, 2, 1; 2000 RQ_{80}, 5, 1, 0; 2000 RG_{84}, 21, 4, 23; 2000 SF_{14}, 13, 2, 26; 2000 SO_{174}, 16, 3, 10; 2000 ST_{249}, 10, 2, 1; 2000 UA_{13}, 27, 5, 31; 2000 WO_{68}, 6, 1, 0; 2000 WY_{136}, 5, 1, 0; 2000 XH_{11}, 8, 2, 9; 2000 XH_{47}, 34, 5, 26; 2000 YX_{133}, 14, 3, 7; 2001 AD_{44}, 8, 1, 0; 2001 FW_{29}, 16, 2, 8; 2001 OF_{30}, 5, 1, 0; 2001 OT_{77}, 10, 2, 9; 2001 OK_{78}, 16, 3, 10; 2001 OQ_{78}, 19, 3, 9; 2001 OD_{91}, 8, 1, 0; 2001 PP_{32}, 8, 1, 0; 2001 PF_{52}, 4, 1, 0; 2001 QQ_{69}, 15, 2, 4; 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G46 Pinto Valley Observatory

A. Paquette, 121 Margaret Anne Drive, Carp, Ontario K0A 1L0, Canada
[andre@astrogeeks.com]

Observers A. Paquette, D. Rowe
Measurers A. Paquette, D. Rowe
UCAC-3

2015 MF_{79}, 3, 1, 0; *[3, 1, 0*, 2011/10/29]*

G48 Doc Greiner Research Obs., Rancho Hildalgo

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

0.40-m f/10 Schmidt-Cassegrain + CCD
UCAC-4, USNO-B1.0

2015 OH, 10, 1, 0; 2015 QJ, 3, 1, 0; 2015 QN_3, 9, 1, 0; *[22, 3, 0*, 2015/08/14–2015/08/20]*

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

2015 FO_{341}, 3, 1, 0; *[3, 1, 0*, 2012/09/20]*

G56 Walnut Creek
G. McKeegan, 1760 First Ave., Walnut Creek, CA 94597, U.S.A.
[geraldspace@earthlink.net]
0.28-m Schmidt-Cassegrain + CCD + f/6.2 focal reducer
UCAC-4
(85989), 3, 1, 0; *[3, 1, 0*, 2015/07/16]*

G68 Sierra Stars Observatory, Markleeville
R. Williams, 115 Chambers Lane, Markleeville, CA 96120, U.S.A.
[richw@sierrastars.com]
Observer R. Dymock
0.61-m f/10 reflector + CCD, 0.51-m f/6.8 reflector + CCD
UCAC-4
2015 LT_{28}, 3, 1, 0; (60558), 19, 4, 20; *[22, 2, 0*, 2010/09/01–2015/08/18]*

G84 Mount Lemmon SkyCenter
A. Block, no details supplied [ablock@as.arizona.edu]
0.6-m f/7.8 reflector + CCD
UCAC-2
2015 NU_{15}, 5, 1, 0; 2015 NU_{18}, 2, 1, 0; 2015 OJ_1, 2, 1, 0; *[9, 3, 0*, 2012/11/20–2013/01/13]*

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
2008 SG_{211}, 3, 1, 0; 2015 FN_{288}, 3, 1, 0; 2015 PO_{46}, 3, 1, 0; *[9, 3, 0*, 2004/10/13–2009/02/18]*

G96 Mt. Lemmon Survey
E. Beshore, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A.
[ebeshore@lpl.arizona.edu]
Observer D. C. Fuls
Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson, R. A. Kowalski, S. M. Larson, R. G. Matheny, F. C. Shelly
1.5-m reflector + CCD
UCAC-4

1995 SQ_{12}, 4, 1, 0; 1999 TB_{302}, 4, 1, 0; 2000 OP_{60}, 8, 2, 615; 2000 SZ_{37}, 4, 1, 0; 2000 SO_{174}, 8, 2, 12; 2000 WR_{56}, 4, 1, 0; 2000 YX_{133}, 4, 1, 0; 2001 DY_8, 4, 1, 0; 2001 FW_{29}, 16, 3, 536; 2001 PV_{15}, 12, 3, 1879; 2001 RQ_{108}, 8, 2, 1116; 2001 SM_{27}, 4, 1, 0; 2001 SX_{77}, 4, 1, 0; 2001 SD_{132}, 4, 1, 0; 2001 SY_{195}, 8, 2, 49; 2001 TU_6, 4, 1, 0; 2001 TX_{189}, 4, 1, 0; 2002 GH_{18}, 4, 1, 0; 2002 MQ, 4, 1, 0; 2002 NF_{81}, 4, 1, 0; 2002 OU_{34}, 4, 1, 0; 2002 PL_7, 4, 1, 0; 2002 PH_{78}, 4, 1, 0; 2002 QW_{38}, 8, 2, 1843; 2002 QD_{50}, 4, 1, 0; 2002 QN_{66}, 8, 2, 7; 2002 QG_{73}, 4, 1, 0; 2002 QC_{99}, 4, 1, 0; 2002 QU_{99}, 8, 2, 1372; 2002 QM_{110}, 4, 1, 0; 2002 QA_{136}, 8, 2, 2307; 2002 QH_{146}, 4, 1, 0; 2002 QK_{149}, 4, 1, 0; 2002 QP_{154}, 4, 1, 0; 2002 RX_6, 8, 1, 0; 2002 RJ_{79}, 4, 1, 0; 2002 RO_{127}, 4, 1, 0; 2002 RD_{244}, 4, 1, 0; 2002 RV_{249}, 4, 1, 0; 2002 RN_{270}, 19, 4, 3774; 2002 RK_{294}, 8, 2, 26; 2002 SV_1, 4, 1, 0; 2002 SU_{47}, 4, 1, 0; 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(423273), 4, 1, 0; (423302), 3, 1, 0; (423305), 4, 1, 0; (423308), 4, 1, 0; (423344), 4, 1, 0; (423354), 4, 1, 0; (423372), 4, 1, 0; (423380), 4, 1, 0; (423399), 4, 1, 0; (423434), 3, 1, 0; (423461), 4, 1, 0; (423527), 4, 1, 0; (423531), 7, 2, 1; (423549), 4, 1, 0; (423570), 4, 1, 0; (423601), 4, 1, 0; (423615), 4, 1, 0; (423623), 4, 1, 0; (423633), 4, 1, 0; (423639), 4, 1, 0; (423655), 4, 1, 0; (423672), 3, 1, 0; (423691), 4, 1, 0; (423692), 4, 1, 0; (423699), 4, 1, 0; (423711), 4, 1, 0; (423731), 8, 2, 13; (423736), 3, 1, 0; (423737), 4, 1, 0; (423739), 4, 1, 0; (423744), 4, 1, 0; (423746), 4, 1, 0; (423806), 3, 1, 0; (423808), 4, 1, 0; (423850), 4, 1, 0; (423870), 4, 1, 0; (423881), 3, 1, 0; (423896), 4, 1, 0; (423922), 4, 1, 0; (423956), 4, 1, 0; (423962), 8, 2, 9; (423975), 4, 1, 0; (423982), 4, 1, 0; (424076), 4, 1, 0; (424105), 4, 1, 0; (424120), 4, 1, 0; (424176), 4, 1, 0; (424205), 4, 1, 0; (424213), 12, 2, 1; (424221), 4, 1, 0; (424224), 4, 1, 0; (424236), 4, 1, 0; (424244), 4, 1, 0; 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(425207), 4, 1, 0; (425217), 4, 1, 0; (425243), 4, 1, 0; (425275), 8, 2, 1; (425286), 4, 1, 0; (425291), 4, 1, 0; (425365), 4, 1, 0; (425366), 4, 1, 0; (425367), 3, 1, 0; (425376), 8, 2, 10; (425390), 4, 1, 0; (425399), 4, 1, 0; (425400), 4, 1, 0; (425402), 4, 1, 0; (425414), 3, 1, 0; (425415), 4, 1, 0; (425425), 4, 1, 0; (425433), 4, 1, 0; (425448), 3, 1, 0; (425453), 4, 1, 0; (425504), 4, 1, 0; (425521), 4, 1, 0; (425562), 4, 1, 0; (425604), 4, 1, 0; (425605), 4, 1, 0; (425616), 4, 1, 0; (425618), 3, 1, 0; (425627), 4, 1, 0; (425645), 3, 1, 0; (425646), 4, 1, 0; (425655), 4, 1, 0; (425666), 3, 1, 0; (425678), 4, 1, 0; (425685), 4, 1, 0; (425705), 4, 1, 0; (425706), 4, 1, 0; (425720), 4, 1, 0; (425734), 4, 1, 0; (425741), 4, 1, 0; (425743), 4, 1, 0; (425772), 4, 1, 0; (425780), 4, 1, 0; (425792), 4, 1, 0; (425795), 4, 1, 0; (425799), 4, 1, 0; (425805), 4, 1, 0; (425831), 4, 1, 0; (425837), 4, 1, 0; (425838), 4, 1, 0; (425864), 4, 1, 0; (425893), 4, 1, 0; (425895), 4, 1, 0; (425912), 4, 1, 0; 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*[38984, 5563, 20∗, 2004/12/18–2015/07/08]*

H01 Magdalena Ridge Observatory, Socorro

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2.4-m $f/8.9$ reflector + CCD

PPMXL

2006 QT_{89}, 4, 1, 0; 2012 PO_{24}, 4, 1, 0; 2015 JJ, 3, 1, 0; 2015 PB_{57}, 4, 1, 0; 2015 PD_{57}, 4, 1, 0; 2015 PG_{57}, 4, 1, 0; 2015 PM_{57}, 4, 1, 0; 2015 PN_{57}, 4, 1, 0; 2015 PP_{57}, 4, 1, 0; 2015 PS_{57}, 4, 1, 0; 2015 PV_{57}, 4, 1, 0; 2015 PW_{57}, 8, 2, 1; 2015 PQ_{227}, 8, 2, 1; 2015 PR_{227}, 4, 1, 0; 2015 PS_{227}, 4, 1, 0; 2015 PT_{227}, 4, 1, 0; 2015 PU_{227}, 4, 1, 0; 2015 PV_{227}, 4, 1, 0; 2015 PC_{228}, 4, 1, 0; 2015 PG_{228}, 3, 1, 0; 2015 PH_{228}, 4, 1, 0; 2015 PR_{228}, 4, 1, 0; 2015 QE, 4, 1, 0; 2015 QG, 4, 1, 0; 2015 QH, 4, 1, 0; 2015 QJ, 8, 2, 1; 2015 QK, 12, 2, 1; 2015 QH_3, 4, 1, 0; 2015 QK_3, 4, 1, 0; 2015 QL_3, 4, 1, 0; 2015 QM_3, 4, 1, 0; 2015 QN_3, 7, 2, 1; 2015 QO_3, 8, 2, 1; 2015 QP_3, 4, 1, 0; 2015 QQ_3, 4, 1, 0; 2015 QR_3, 4, 1, 0; *[169, 36, 0∗, 2015/08/13–2015/08/20]*

H06 iTelescope Observatory, Mayhill

P. B. Lake, no details supplied [parapion@telstra.com] (8)

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G. V. Williams, Minor Planet Center, 60 Garden Street, Cambridge, MA 02138, U.S.A. [gwilliams@cfa.harvard.edu] (38)
M. Urbanik, Moyzesova 1827, SK-02201 Cadca, Slovakia [stone@astronomie.cz] (42)
S. Plaksa, no details supplied [s.plaksa@gmail.com] (52)
P. S. Lau, Flat 5B, Block B, 5 Homantin Hill Road, Kowloon, Hong Kong [mail@betty-lau.com] (55)
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (58)
M. Miller, no details supplied [mmiller@hctc.net] (65)
Observers N. Paul, G. V. Williams, C. L. Marsden, E. Bryssinck, P. S. Lau, M. Urbanik, A. Novichonok, M. Mattiazzo, H. Sato, M. Suzuki, K. Sokolovsky, M. Miller, S. M. Tilley, R. Ligustri, P. B. Lake
Measurers N. Paul, G. V. Williams, C. L. Marsden, E. Bryssinck, P. S. Lau, M. Urbanik, T. Prystavski, M. Mattiazzo, H. Sato, M. Suzuki, M. Miller, S. M. Tilley, R. Ligustri, P. B. Lake
0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.43-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.1-m $f/5.0$ astrograph + CCD
UCAC-4, USNO-A2.0, UCAC-3, CMC, NOMAD

{12} 2015 PK_{9}, 3, 1, 0; 2015 QN_{3}, 2, 1, 0; *[5, 2, 0∗, 2015/08/10–2015/08/19]*

{20} 2015 MJ_{81}, 3, 1, 0; 2015 PK_{159}, 3, 1, 0; *[6, 2, 0∗, 2011/09/26–2014/01/28]*

{8} (4055), 20, 1, 0; *[20, 1, 0∗, 2015/08/22]*

{38} (134340), 3, 1, 0; *[3, 1, 0∗, 2015/07/13]*

{42} 2015 OH, 3, 1, 0; *[3, 1, 0∗, 2015/07/18]*

{52} 2010 CV_{66}, 3, 1, 0; (1288), 1, 1, 0; *[4, 2, 0∗, 2013/11/12–2014/12/29]*

{55} (662), 4, 1, 0; (1876), 3, 1, 0; (2274), 4, 1, 0; (5978), 4, 1, 0; (6274), 4, 1, 0; (6277), 4, 1, 0; (8430), 4, 1, 0; (9108), 3, 1, 0; (10322), 4, 1, 0; (15450), 4, 1, 0; (16976), 3, 1, 0; (21475), 4, 1, 0; (23314), 4, 1, 0; (23427), 4, 1, 0; (26036), 4, 1, 0; (28169), 4, 1, 0; (28750), 4, 1, 0; (29250), 3, 1, 0; (31305), 3, 1, 0; (34243), 3, 1, 0; (36243), 4, 1, 0; (38957), 4, 1, 0; (39404), 3, 1, 0; (47035), 4, 1, 0; (48655), 3, 1, 0; (48903), 3, 1, 0; (50210), 3, 1, 0; (50636), 4, 1, 0; (51142), 3, 1, 0; (52239), 3, 1, 0; (53586), 3, 1, 0; (55741), 4, 1, 0; (57098), 3, 1, 0; (63615), 3, 1, 0; (65431), 4, 1, 0; (67021), 4, 1, 0; (67939), 4, 1, 0; (68504), 3, 1, 0; (70596), 3, 1, 0; (71034), 3, 1, 0; (79679), 3, 1, 0; (84602), 3, 1, 0; (85367), 3, 1, 0; (85486), 4, 1, 0; (91169), 4, 1, 0; (92625), 4, 1, 0; (92859), 4, 1, 0; (94431), 3, 1, 0; (94740), 3, 1, 0; (104031), 4, 1, 0; (106396), 4, 1, 0; (107818), 4, 1, 0; (113340), 3, 1, 0; (114059), 3, 1, 0; (115802), 4, 1, 0; (119892), 4, 1, 0; (121444), 3, 1, 0; (121608), 3, 1, 0; (127551), 4, 1, 0; (134508), 4, 1, 0; (152203), 3, 1, 0; (154329), 3, 1, 0; (160817), 4, 1, 0; (232781), 4, 1, 0; (254184), 5, 1, 0; (298537), 3, 1, 0; *[235, 66, 0∗, 2015/07/17–2015/08/21]*

{58} 2015 NK_{13}, 8, 2, 8; *[8, 1, 0∗, 2015/08/14–2015/08/22]*

{65} (9559), 4, 1, 0; (17086), 4, 1, 0; (63017), 2, 1, 0; *[10, 3, 0∗, 2015/08/12–2015/08/13]*

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

2015 CB_{21}, 2, 1, 0; *[2, 1, 0∗, 2004/09/16]*

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
USNO-B1.0, UCAC-3

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H21 Astronomical Research Observatory, Westfield

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Observer R. Holmes

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

0.76-m $f/3.0$ astrograph + CCD, 0.61-m $f/4.5$ astrograph + CCD, 1.3-m $f/4.0$ astrograph + CCD, 0.81-m $f/4.0$ astrograph + CCD

UCAC-3, UCAC-4, PPMXL, UCAC-2, USNO-B1.0

1998 XA_5, 3, 1, 0; 2001 EC_{16}, 3, 1, 0; 2001 OV_{13}, 7, 2, 1; 2001 RU_{17}, 6, 2, 16; 2002 EX_8, 7, 2, 8; 2002 GZ_8, 3, 1, 0; 2003 ME_7, 8, 3, 21; 2004 MW_2, 6, 1, 0; 2004 MO_3, 3, 1, 0; 2004 RU_{331}, 3, 1, 0; 2005 TT_{109}, 4, 1, 0; 2006 AW, 50, 4, 4; 2006 BB, 3, 1, 0; 2006 OF_5, 3, 1, 0; 2006 QT_{78}, 3, 1, 0; 2006 QT_{89}, 5, 2, 1; 2006 SJ_{198}, 3, 1, 0; 2006 WU, 3, 1, 0; 2007 EZ, 3, 1, 0; 2007 FK_1, 3, 1, 0; 2007 TA_{155}, 3, 1, 0; 2008 CQ_1, 3, 1, 0; 2008 HV_4, 3, 1, 0; 2008 OQ_8, 3, 1, 0; 2008 SY_{45}, 4, 1, 0; 2008 UW_{91}, 3, 1, 0; 2008 VD_{64}, 4, 1, 0; 2010 NY_{65}, 9, 2, 6; 2010 PD_1, 3, 1, 0; 2010 PD_{33}, 4, 1, 0; 2010 PR_{66}, 65, 5, 4; 2010 RP_{80}, 6, 2, 1; 2010 VF_1, 3, 1, 0; 2010 VE_{183}, 3, 1, 0; 2010 WP_8, 3, 1, 0; 2010 XC_{11}, 3, 1, 0; 2011 OP_{24}, 3, 1, 0; 2011 SB_{16}, 3, 1, 0; 2011 VS_5, 3, 1, 0; 2011 YC_{29}, 27, 4, 12; 2011 YV_{39}, 3, 1, 0; 2012 AO_7, 3, 1, 0; 2012 BM_{86}, 6, 2, 7; 2012 CK_2, 6, 2, 1; 2012 GF_{20}, 4, 1, 0; 2012 HM_1, 17, 5, 19; 2012 HG_8, 6, 2, 4; 2012 OD_1, 26, 4, 25; 2012 PU_{17}, 3, 1, 0; 2012 PO_{28}, 3, 1, 0; 2012 RS_{16}, 6, 2, 7; 2012 SG_{32}, 6, 2, 4; 2012 TM_{139}, 38, 3, 5; 2013 AK_{50}, 3, 1, 0; 2013 BE_{27}, 6, 2, 1; 2013 LL_{31}, 5, 2, 1; 2013 VG_{13}, 8, 2, 1; 2014 BV_{24}, 4, 1, 0; 2014 DS_{139}, 3, 1, 0; 2014 EB_{47}, 4, 1, 0; 2014 MZ_{17}, 6, 2, 11; 2014 OL_{339}, 6, 2, 1; 2014 US_{192}, 15, 4, 14; 2014 VL_{19}, 3, 1, 0; 2014 WO_7, 4, 1, 0; 2014 WC_{132}, 4, 1, 0; 2014 YB_{28}, 3, 1, 0; 2015 DP_{99}, 3, 1, 0; 2015 DO_{155}, 3, 1, 0; 2015 DV_{198}, 7, 2, 21; 2015 DH_{218}, 3, 1, 0; 2015 EZ, 14, 3, 22; 2015 FG_{37}, 3, 1, 0; 2015 FX_{125}, 3, 1, 0; 2015 FC_{247}, 3, 1, 0; 2015 FX_{284}, 7, 2, 37; 2015 FL_{290}, 3, 1, 0; 2015 GF_{27}, 5, 1, 0; 2015 GK_{50}, 3, 1, 0; 2015 HM_{10}, 3, 1, 0; 2015 HF_{11}, 14, 5, 36; 2015 HB_{117}, 4, 1, 0; 2015 JD_1, 3, 1, 0; 2015 JY_1, 232, 23, 38; 2015 JD_2, 20, 7, 36; 2015 JH_2, 21, 3, 21; 2015 KB_{19}, 13, 4, 10; 2015 KJ_{19}, 2, 1, 0; 2015 KJ_{36}, 3, 1, 0; 2015 KY_{91}, 6, 2, 1; 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2015 OF_{22}, 6, 2, 27; 2015 OG_{22}, 7, 2, 1; 2015 OH_{22}, 27, 4, 4; 2015 OZ_{25}, 3, 1, 0; 2015 OA_{26}, 12, 3, 27; 2015 OB_{26}, 15, 5, 28; 2015 OC_{26}, 6, 2, 1; 2015 OD_{26}, 6, 2, 1; 2015 OF_{26}, 28, 5, 10; 2015 OG_{26}, 3, 1, 0; 2015 OH_{26}, 3, 1, 0; 2015 OJ_{26}, 3, 1, 0; 2015 OK_{26}, 6, 1, 0; 2015 OA_{30}, 3, 1, 0; 2015 OG_{35}, 3, 1, 0; 2015 OK_{35}, 3, 1, 0; 2015 OL_{35}, 8, 2, 28; 2015 OM_{35}, 20, 4, 6; 2015 OO_{35}, 3, 1, 0; 2015 OS_{35}, 6, 1, 0; 2015 OH_{42} *, 6, 2, 1; 2015 OJ_{42} *, 3, 1, 0; 2015 OZ_{77}, 4, 1, 0; 2015 OA_{78}, 3, 1, 0; 2015 OT_{78}, 27, 6, 14; 2015 OU_{78}, 3, 1, 0; 2015 OZ_{78}, 3, 1, 0; 2015 OC_{79}, 3, 1, 0; 2015 PC, 22, 5, 21; 2015 PD, 30, 9, 17; 2015 PE, 4, 1, 0; 2015 PF, 3, 1, 0; 2015 PM, 15, 5, 8; 2015 PN, 3, 1, 0; 2015 PQ, 22, 5, 16; 2015 PR, 15, 4, 16; 2015 PS, 26, 5, 17; 2015 PT, 3, 1, 0; 2015 PH_9, 3, 1, 0; 2015 PK_9, 87, 10, 15; 2015 PL_9, 9, 3, 6; 2015 PZ_9 *, 3, 1, 0; 2015 PP_{56}, 11, 4, 6; 2015 PQ_{56}, 28, 6, 13; 2015 PR_{56}, 15, 5, 10; 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(438429), 17, 3, 8; *[6312, 366, 3*, 2010/05/05–2015/08/26]*

H36 Sandlot Observatory, Scranton

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0.56-m reflector + CCD

UCAC-4

2008 VD_{64}, 2, 1, 0; 2014 AZ_{15}, 3, 1, 0; 2014 CD_3, 3, 1, 0; 2014 TZ_{33}, 4, 2, 1; 2014 UM_{33}, 4, 2, 2; 2015 HO_{171}, 2, 1, 0; 2015 MU_{59}, 4, 1, 0; 2015 MG_{107}, 8, 3, 3; 2015 MN_{116}, 4, 1, 0; 2015 ME_{130}, 2, 1, 0; 2015 NF, 3, 1, 0; 2015 NA_{10}, 3, 1, 0; 2015 NE_{13}, 2, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 NB_{14}, 3, 1, 0; 2015 OU, 3, 1, 0; 2015 OM_{21}, 4, 1, 0; 2015 OC_{22}, 6, 2, 1; 2015 OF_{22}, 3, 1, 0; 2015 OO_{23}, 15, 4, 3; 2015 OB_{24}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 OX_{26} *, 8, 3, 2; 2015 OG_{35}, 4, 1, 0; 2015 OY_{77}, 2, 1, 0; 2015 OT_{78}, 2, 1, 0; 2015 PC, 3, 1, 0; 2015 PD, 3, 1, 0; 2015 PG, 2, 1, 0; 2015 PM, 6, 2, 1; 2015 PT, 3, 1, 0; 2015 PF_9, 3, 1, 0; 2015 PG_9, 2, 1, 0; 2015 PH_9, 3, 1, 0; 2015 PK_9, 9, 2, 1; 2015 PL_9, 3, 1, 0; 2015 PM_{34}, 3, 1, 0; 2015 PQ_{56}, 6, 2, 1; 2015 PR_{56}, 2, 1, 0; 2015 PS_{56}, 3, 1, 0; 2015 PQ_{57}, 2, 1, 0; 2015 PX_{57}, 3, 1, 0; 2015 PU_{227}, 3, 1, 0; 2015 PT_{228}, 3, 1, 0; 2015 PU_{228}, 3, 1, 0; 2015 PV_{228}, 8, 2, 1; 2015 PZ_{228}, 3, 1, 0; 2015 PA_{229}, 3, 1, 0; 2015 QJ, 4, 1, 0; 2015 QK, 4, 1, 0; 2015 QJ_3, 4, 1, 0; 2015 QK_3, 2, 1, 0; 2015 QL_3, 3, 1, 0; 2015 QM_3, 7, 2, 1; 2015 QN_3, 7, 2, 1; 2015 QO_3, 5, 2, 1; 2015 QT_3, 4, 1, 0; 2015 QD_9, 3, 1, 0; 2015 QH_9, 2, 1, 0; (206378), 8, 2, 12; *[238, 61, 1*, 2008/11/25–2015/08/26]*

H45 Arkansas Sky Obs., Petit Jean Mountain South

P. C. Sherrod, 73 Tanyard Springs Road, Petit Jean Mountain, Morrilton, AR 72110, U.S.A. [drclay@tcworks.net]

Observer P. C. Sherrod
Measurers P. C. Sherrod, L. P. Sherrod
0.51-m f/4.3 astrograph + CCD
UCAC-4

1988 NE, 6, 1, 0; 2006 AW, 12, 2, 2; 2006 WO_1, 6, 1, 0; 2010 PR_{66}, 19, 3, 14; 2011 NP, 6, 1, 0; 2011 YC_{29}, 10, 1, 0; 2012 NP, 17, 3, 31; 2012 OD_1, 14, 2, 2; 2012 TM_{139}, 17, 3, 27; 2014 WF_{365}, 17, 3, 7; 2015 EZ, 6, 1, 0; 2015 GD, 35, 5, 31; 2015 JY_1, 18, 2, 4; 2015 KQ_{154}, 16, 3, 5; 2015 LG_2, 7, 1, 0; 2015 MP_1, 24, 3, 5; 2015 MF_{95}, 4, 1, 0; 2015 NK_{13}, 16, 2, 2; 2015 NZ_{13}, 8, 1, 0; 2015 NA_{14}, 47, 5, 22; 2015 OH, 22, 3, 25; 2015 PT, 6, 1, 0; 2015 PK_9, 8, 1, 0; (1036), 3, 1, 0; (4055), 6, 1, 0; (7822), 6, 1, 0; (85989), 20, 3, 7; (206378), 6, 1, 0; (242191), 10, 1, 0; (281375), 6, 1, 0; (293054), 6, 1, 0; (294739), 23, 4, 32; (348400), 16, 3, 6; (385186), 8, 2, 5; *[451, 34, 0∗, 2015/07/13–2015/08/14]*

H47 Vicksburg
C. Bell, 107 Judson Circle, Vicksburg, MS 39180, U.S.A. [charbell@bellsouth.net]
0.3-m Schmidt-Cassegrain + CCD
UCAC-4

(4999), 5, 1, 0; (5037), 3, 1, 0; (13222), 3, 1, 0; *[11, 3, 0∗, 2015/07/15–2015/07/30]*

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)

2015 OT_9, 9, 1, 0; *[9, 1, 0∗, 2001/12/15]*

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, N. Morales, R. Gil-Hutton, I. de la Cueva
0.45-m f/2.8 reflector + CCD
UCAC-4

2000 SZ_{37}, 8, 2, 1; 2002 PD_{193}, 6, 2, 1; 2008 UD_{130}, 5, 2, 1; 2010 CM_6, 3, 1, 0; 2011 QR_{34}, 4, 1, 0; 2015 FL_{176}, 7, 2, 1; 2015 LR_{34}, 6, 2, 1; 2015 MN_{52}, 7, 2, 1; 2015 MV_{116} ∗, 8, 2, 1; 2015 MZ_{116} ∗, 7, 2, 3; 2015 MA_{117} ∗, 4, 1, 0; 2015 MB_{117} ∗, 6, 2, 3; 2015 ME_{117} ∗, 6, 2, 2; 2015 NP_{17}, 5, 2, 1; 2015 NT_{25} ∗, 6, 2, 1; 2015 NU_{25} ∗, 7, 2, 1; 2015 NV_{25} ∗, 6, 2, 1; 2015 OM_{35} ∗, 7, 2, 1; 2015 ON_{35} ∗, 12, 3, 8; 2015 OT_{35} ∗, 7, 2, 1; 2015 OU_{35} ∗, 7, 2, 1; 2015 OV_{35} ∗, 6, 2, 1; 2015 OW_{35} ∗, 7, 2, 1; 2015 OX_{35} ∗, 7, 2, 1; 2015 OY_{35} ∗, 7, 2, 1; 2015 OZ_{35} ∗, 6, 2, 1; 2015 OA_{36} ∗, 6, 2, 1; 2015 OB_{36} ∗, 6, 2, 1; 2015 OC_{36} ∗, 6, 2, 1; 2015 OD_{36} ∗, 6, 2, 1; 2015 OE_{36} ∗, 4, 2, 1; 2015 OF_{36} ∗, 4, 2, 1; 2015 OG_{36} ∗, 6, 2, 1; 2015 OH_{36} ∗, 6, 2, 1; 2015 OJ_{36} ∗, 6, 2, 1; 2015 OK_{36} ∗, 6, 2, 1; 2015 OL_{36} ∗, 4, 2, 1; 2015 OG_{65} ∗, 7, 2, 1; 2015 OH_{65} ∗, 7, 2, 1; 2015 OK_{73}, 8, 3, 2; 2015 OB_{74} ∗, 6, 2, 1; 2015 OC_{74} ∗, 7, 2, 1; 2015 OD_{74} ∗, 7, 2, 1; 2015 OE_{74} ∗, 7, 2, 1; 2015 OF_{74} ∗, 6, 2, 1; 2015 OG_{74} ∗, 7, 2, 1; 2015 OH_{74} ∗, 7, 2, 1; 2015 OJ_{74} ∗, 6, 2, 1; 2015 OK_{74} ∗, 8, 3, 2; 2015 OP_{78} ∗, 8, 3, 2; *[318, 50, 40∗, 2011/09/29–2015/08/10]*

I11 Gemini South Observatory, Cerro Pachon
J. Masiero, no details supplied (4)
Observers J. Masiero, A. Cardwell, J. Fuentes
8.0-m reflector
USNO-B1.0

2015 OA_{22}, 4, 1, 0; *[4, 1, 0∗, 2015/07/22]*

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

2000 XH_{47}, 3, 1, 0; 2006 AW, 3, 1, 0; 2010 PR_{66}, 3, 1, 0; 2011 YC_{29}, 3, 1, 0; 2015 GD, 9, 3, 24; 2015 JY_1, 3, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NS_{13}, 3, 1, 0; 2015 NZ_{13}, 3, 1, 0; 2015 NA_{14}, 3, 1, 0; 2015 OH, 6, 2, 4; 2015 OF_{26}, 3, 1, 0; 2015 PT, 3, 1, 0; (4055), 3, 1, 0; (7822), 9, 3, 17; (8035), 3, 1, 0; (14222), 3, 1, 0; (88710), 3, 1, 0; (89590), 3, 1, 0; (112985), 3, 1, 0; (129893), 3, 1, 0; (241596), 3, 1, 0; (242191), 3, 1, 0; (249983), 3, 1, 0; (294739), 3, 1, 0; (298430), 3, 1, 0; (309420), 3, 1, 0; (369984), 3, 1, 0; (385186), 6, 2, 21; *[105, 29, 0∗, 2015/07/17–2015/08/20]*

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
0.40-m f/3.7 reflector + CCD
UCAC-2, UCAC-4

2008 RB_{69}, 6, 2, 1; 2008 UX_{106}, 6, 2, 1; 2010 VR_{107}, 3, 1, 0; 2015 HG_{183} ∗, 8, 2, 1; 2015 HH_{183} ∗, 13, 2, 1; 2015 MX_{116} ∗, 5, 2, 2; 2015 MY_{116} ∗, 5, 2, 2; 2015 NP_{16}, 8, 2, 1; 2015 OU_{24}, 6, 2, 2; 2015 OM_{35}, 11, 2, 1; 2015 OK_{74}, 8, 2, 2; 2015 OD_{78} ∗, 5, 2, 1; 2015 OE_{78} ∗, 8, 2, 1; 2015 OF_{78} ∗, 8, 2, 1; 2015 OG_{78} ∗, 6, 2, 1; 2015 OH_{78} ∗, 8, 2, 1; 2015 OJ_{78} ∗, 8, 2, 3; 2015 OK_{78} ∗, 8, 2, 3; 2015 OL_{78} ∗, 8, 2, 3; 2015 OM_{78} ∗, 7, 2, 3; 2015 ON_{78} ∗, 6, 2, 1; 2015 OO_{78} ∗, 7, 2, 1; 2015 PR_{57} ∗, 11, 3, 3; 2015 PE_{98}, 6, 2, 1; 2015 PQ_{130}, 3, 1, 0; 2015 PP_{231} ∗, 6, 2, 1; 2015 PQ_{231} ∗, 6, 2, 1; 2015 PR_{231} ∗, 7, 2, 1; 2015 PS_{231} ∗, 7, 2, 1; 2015 PT_{231} ∗, 6, 2, 1; 2015 PU_{231} ∗, 7, 2, 1; 2015 PV_{231} ∗, 6, 2, 1; 2015 PA_{281}, 4, 1, 0; 2015 PJ_{291} ∗, 6, 2, 2; 2015 PK_{292}, 3, 1, 0; 2015 QB, 3, 1, 0; 2015 QW_2, 4, 1, 0; *[243, 37, 24∗, 2015/04/22–2015/08/21]*

I39 Observatorio Cruz del Sur, San Justo
A. Chapman, Observatorio Cruz del Sur, 2556 Chañar Street, San Justo, Buenos Aires, Argentina [andresechapman@gmail.com]
0.20-m f/4 reflector + CCD
UCAC-4

2015 OH, 3, 1, 0; *[3, 1, 0∗, 2015/07/18]*

I41 Palomar Mountain–PTF
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]
1.2-m f/2.44 Schmidt + CCD
SDSS

2000 UL_{29}, 3, 1, 0; 2002 LE_{48}, 4, 2, 2; 2002 SJ_{32}, 4, 2, 1; 2005 QG_{32}, 4, 2, 2; 2005 TY_{16}, 4, 2, 1; 2005 UN_6, 4, 1, 0; 2005 YW_{36}, 3, 1, 0; 2006 KQ_{70}, 4, 2, 1; 2006 WO_1, 5, 1, 0; 2007 BV_{42}, 4, 1, 0; 2007 TU_{23}, 4, 1, 0; 2007 TX_{432}, 4, 2, 2; 2007 VA_{98}, 3, 1, 0; 2007 WL_4, 3, 1, 0; 2008 SC_{168}, 5, 1, 0; 2009 BL_{175}, 4, 2, 1; 2009 HA_{73}, 3, 1, 0; 2010 JK_3, 4, 2, 2; 2010 LP_1, 4, 2, 1; 2010 OH_{36}, 4, 2, 2; 2010 QZ_2, 4, 2, 1; 2010 VW_{197}, 4, 1, 0; 2010 WB_{50}, 5, 1, 0; 2011 LL_{19}, 4, 2, 1; 2011 SQ_{118}, 4, 2, 1; 2011 UR_{120}, 3, 1, 0; 2012 BQ_{87}, 3, 1, 0; 2012 JY_4, 4, 1, 0; 2013 AH_{105}, 4, 2, 1; 2013 BS_{44}, 4, 2, 1; 2014 MR_{15}, 3, 1, 0; 2014 TW_{26}, 3, 1, 0; 2014 UL_{70}, 16, 1, 0; 2014 WD_{478}, 3, 1, 0; 2014 YH_{12}, 4, 1, 0; 2014 YX_{23}, 3, 1, 0; 2014 YZ_{32}, 3, 1, 0; 2015 AC_{18}, 3, 1, 0; 2015 BL_{27}, 11, 1, 0; 2015 BW_{67}, 3, 1, 0; 2015 EX_{19}, 3, 1, 0; 2015 ET_{33}, 4, 1, 0; 2015 FT_{333}, 3, 1, 0; 2015 LF_{15}, 4, 2, 1; 2015 LA_{24}, 4, 2, 2; 2015 LG_{31}, 4, 2, 1; 2015 MY, 4, 2, 1; 2015 ME_6, 4, 2, 1; 2015 MX_{48}, 3, 1, 0; 2015 MG_{50}, 10, 2, 5; 2015 MH_{78}, 4, 2, 2; 2015 MS_{78}, 4, 2, 1; 2015 MZ_{117}, 3, 1, 0; 2015 NR_{12} ∗, 4, 2, 1; 2015 NS_{12} ∗, 4, 2, 1; 2015 NX_{12} ∗, 4, 2, 1; 2015 NE_{24} ∗, 4, 2, 2; 2015 OL_4, 4, 2, 1; 2015 OG_{19}, 3, 1, 0; 2015 OL_{26}, 3, 1, 0; 2015 OM_{26}, 3, 1, 0; 2015 OO_{26}, 3, 1, 0; 2015 OP_{26}, 3, 1, 0; 2015 OM_{66}, 4, 2, 1; 2015 OH_{67}, 4, 2, 2; 2015 OQ_{73} ∗, 8, 4, 9; 2015 OR_{73} ∗, 4, 2, 2; 2015 OV_{73} ∗, 4, 2, 1; 2015 OW_{73} ∗, 4, 2, 1; 2015 OX_{73} ∗, 4, 2, 1; 2015 ON_{75}, 4, 2, 1; 2015 PR_{58} ∗, 4, 2, 2; 2015 PG_{62} ∗, 4, 2, 1; 2015 PH_{62} ∗, 4, 2, 1; 2015 PT_{111} ∗, 4, 2, 1; 2015 PD_{304}, 4, 1, 0; (957), 4, 2, 1; (1031), 4, 2, 1; (1164), 8, 4, 9; (1201), 4, 2, 1; (1516), 4, 2, 1; (2015), 4, 2, 1; (2118), 4, 2, 1; (2539), 4, 2, 1; (2668), 4, 2, 2; (2685), 4, 1, 0; (2916), 4, 2, 2; (3073), 8, 4, 5; (3282), 4, 2, 1; (3617), 8, 4, 14; (3787), 4, 2, 1; (3979), 4, 2, 1; (4261), 4, 2, 1; (4302), 4, 2, 1; (4320), 4, 2, 2; (4674), 5, 1, 0; (5170), 4, 2, 1; (5310), 4, 2, 2; (6035), 4, 2, 1; (6183), 5, 1, 0; (6594), 4, 2, 1; (6858), 4, 2, 1; (7428), 4, 2, 1; (7782), 4, 2, 1; (7853), 4, 2, 1; (7872), 4, 2, 2; (8838), 4, 2, 1; (8879), 3, 1, 0; (9004), 4, 2, 1; (9180), 4, 2, 1; (9329), 4, 2, 1; (9421), 3, 1, 0; (9552), 4, 2, 1; (9970), 4, 2, 1; (10188), 3, 1, 0; (10435), 4, 2, 2; (10630), 8, 4, 15; (10673), 4, 2, 1; (11129), 4, 2, 1; (11134), 4, 2, 1; (11214), 4, 2, 2; (11381), 4, 2, 2; (11441), 4, 2, 1; (11446), 4, 2, 1; (11481), 4, 2, 1; (11497), 4, 2, 1; (11523), 4, 2, 1; (11658), 4, 2, 1; (11661), 3, 1, 0; (11713), 4, 2, 1; (11801), 4, 1, 0; (11812), 4, 2, 2; (12001), 4, 2, 1; (12479), 4, 2, 1; (13180), 4, 2, 1; (13288), 4, 2, 1; (13354), 3, 1, 0; (13436), 4, 2, 1; (13530), 4, 2, 1; (13817), 5, 2, 1; (14517), 8, 4, 8; (15432), 3, 1, 0; (15520), 4, 1, 0; (15757), 4, 2, 1; (16583), 4, 2, 1; (16654), 4, 2, 1; (16703), 4, 2, 1; (16887), 4, 2, 1; (16994), 3, 1, 0; (17154), 4, 2, 1; (17467), 4, 2, 1; (17693), 5, 2, 1; (17808), 4, 2, 1; (17862), 8, 3, 5; (17905), 4, 2, 1; (18102), 4, 2, 1; (18141), 4, 2, 1; (18175), 4, 2, 2; (18696), 4, 2, 1; (19099), 4, 2, 2; (19151), 4, 2, 1; (19256), 4, 2, 1; (19722), 4, 1, 0; (19902), 8, 4, 27; (20058), 4, 2, 1; (20603), 4, 2, 1; (20698), 4, 2, 1; (20791), 4, 2, 1; (20904), 4, 2, 1; (21625), 4, 2, 1; (21755), 4, 2, 1; (21832), 4, 2, 2; (21940), 4, 2, 1; (22217), 4,

2, 1; (22529), 6, 2, 1; (22629), 8, 4, 8; (22952), 4, 2, 1; (22977), 3, 1, 0; (22997), 4, 2, 1; (23187), 4, 1, 0; (23219), 4, 2, 1; (23261), 4, 2, 1; (23363), 4, 2, 1; (23391), 4, 2, 2; (23407), 4, 2, 2; (23452), 4, 2, 1; (23545), 4, 2, 1; (23712), 4, 2, 1; (24030), 4, 2, 1; (24403), 4, 2, 1; (24683), 4, 2, 1; (25039), 4, 2, 2; (25161), 3, 1, 0; (25215), 4, 2, 2; (25321), 4, 2, 1; (25346), 4, 2, 1; (25417), 4, 2, 1; (25420), 5, 1, 0; (26099), 4, 2, 1; (26239), 4, 2, 1; (26260), 4, 1, 0; (26709), 8, 4, 29; (26955), 5, 1, 0; (27468), 3, 1, 0; (27708), 4, 2, 1; (27924), 4, 2, 1; (27949), 4, 2, 1; (28485), 4, 2, 1; (28905), 4, 2, 1; (29572), 4, 2, 1; (29928), 4, 2, 1; (29934), 4, 2, 1; (30204), 3, 1, 0; (30306), 3, 1, 0; (30503), 4, 2, 1; (31055), 4, 2, 1; (31123), 4, 2, 1; (31737), 4, 2, 2; (32143), 4, 2, 1; (32439), 4, 2, 1; (32847), 4, 2, 1; (33240), 4, 2, 1; (33991), 4, 2, 1; (34047), 4, 2, 1; (34141), 4, 2, 1; (34243), 4, 2, 1; (34691), 3, 1, 0; (34788), 4, 2, 1; (35115), 4, 2, 1; (35336), 3, 1, 0; (35596), 4, 2, 1; (36162), 3, 1, 0; (36226), 4, 2, 1; (36520), 4, 2, 2; (36627), 3, 1, 0; (36670), 4, 2, 1; (36730), 4, 2, 1; (36941), 4, 2, 1; (37054), 4, 2, 2; (37071), 3, 1, 0; (37212), 4, 1, 0; (37237), 4, 2, 1; (37366), 4, 2, 1; (37694), 3, 1, 0; (37704), 4, 2, 2; (37905), 8, 4, 5; (38347), 4, 2, 1; (38398), 4, 2, 1; (38550), 4, 2, 1; (38825), 4, 2, 1; (39135), 4, 2, 1; (39440), 4, 2, 1; (39496), 4, 2, 1; (40319), 3, 1, 0; (40389), 4, 2, 1; (40435), 8, 4, 27; (40583), 4, 2, 1; (40885), 4, 2, 1; (40964), 4, 2, 1; (40972), 4, 2, 2; (40978), 4, 2, 1; (41037), 4, 2, 1; (41046), 4, 2, 2; (41070), 4, 2, 1; (41188), 4, 2, 2; (41307), 6, 2, 1; (41311), 4, 2, 1; (41351), 3, 1, 0; (41670), 4, 2, 1; (41952), 4, 2, 1; (42137), 4, 2, 1; (42838), 4, 2, 1; (42972), 3, 1, 0; (43782), 4, 2, 1; (44069), 4, 2, 1; (44323), 4, 2, 1; (44430), 4, 2, 1; (44883), 4, 2, 1; (44896), 4, 2, 2; (45087), 4, 2, 1; (45095), 3, 1, 0; (45450), 3, 1, 0; (45509), 4, 2, 1; (45616), 6, 2, 5; (45650), 4, 2, 1; (45652), 4, 2, 2; (45692), 4, 2, 1; (45829), 4, 2, 1; (46052), 4, 2, 1; (46627), 6, 2, 2; (46664), 4, 2, 1; (46899), 4, 2, 2; (46907), 4, 2, 1; (46992), 4, 2, 1; (47011), 4, 2, 2; (47048), 4, 2, 1; (47142), 3, 1, 0; (47146), 4, 2, 1; (47532), 4, 2, 2; (47559), 4, 2, 1; (47715), 4, 2, 1; (47859), 3, 1, 0; (48126), 4, 2, 1; (48178), 4, 2, 2; (48388), 4, 2, 1; (48996), 4, 2, 1; (49060), 4, 2, 1; (49288), 4, 2, 1; (49378), 4, 2, 1; (49535), 3, 1, 0; (49546), 4, 2, 1; (49787), 4, 2, 1; (50087), 4, 2, 1; (50124), 4, 2, 1; (50152), 4, 2, 1; (50293), 4, 2, 1; (50351), 4, 2, 1; (50440), 4, 2, 1; (50564), 8, 4, 15; (51189), 4, 2, 1; (51468), 4, 2, 1; (51634), 5, 1, 0; (51897), 4, 2, 1; (52165), 3, 1, 0; (52331), 4, 2, 1; (52386), 4, 2, 1; (52584), 3, 1, 0; (52767), 3, 1, 0; (52900), 4, 2, 2; (53675), 4, 2, 1; (54180), 4, 2, 1; (54379), 4, 2, 1; (54839), 4, 2, 1; (54987), 4, 2, 1; (54991), 4, 2, 2; (55418), 4, 2, 1; (55598), 3, 1, 0; (56196), 4, 2, 1; (56270), 8, 4, 8; (56328), 5, 1, 0; (57366), 8, 4, 15; (57371), 4, 2, 2; (57461), 4, 2, 1; (57878), 3, 1, 0; (58249), 4, 1, 0; (58545), 4, 2, 1; (58774), 4, 2, 1; (58966), 4, 1, 0; (59046), 3, 1, 0; (59868), 3, 1, 0; (60211), 6, 2, 4; (60372), 4, 2, 2; (60382), 4, 2, 1; (61440), 8, 4, 7; (61445), 4, 2, 2; (62018), 3, 1, 0; (62056), 4, 2, 1; (62989), 4, 2, 1; (63017), 4, 2, 1; (63379), 4, 2, 2; (63650), 3, 1, 0; (63970), 4, 2, 1; (65369), 4, 2, 2; (65397), 4, 2, 1; (65469), 4, 2, 1; (65634), 4, 2, 2; (65970), 4, 2, 1; (66418), 8, 4, 8; (67100), 4, 2, 1; (67201), 4, 2, 1; (68764), 4, 2, 2; (68780), 4, 2, 1; (68794), 4, 2, 1; (69234), 4, 2, 1; (69335), 3, 1, 0; (69453), 3, 1, 0; (70395), 4, 2, 1; (70541), 3, 1, 0; (70925), 4, 2, 1; (71215), 4, 2, 2; (71355), 4, 2, 1; (71748), 9, 3, 6; (73307), 8, 1, 0; (74065), 3, 1, 0; (74130), 4, 2, 1; (74192), 4, 2, 2; (74274), 3, 1, 0; (74770), 4, 2, 1; (75332), 3, 1, 0; (75373), 4, 2, 1; (75625), 4, 2, 2; (76559), 4, 2, 2; (76802), 4, 2, 1; (77123), 4, 2, 1; (77183), 3, 1, 0; (77188), 4, 1, 0; (77517), 4, 1, 0; (77608), 3, 1, 0; (77619), 4, 2, 1; (78315), 3, 1, 0; (78685), 3, 1, 0; (79521), 4, 2, 1; (79639), 4, 2, 2; (79907), 3, 1, 0; (80303), 4, 2, 1; (80622), 4, 2, 1; (80925), 4, 2, 1; (81083), 4, 2, 1; (81613), 4, 2, 1; (82082), 4, 2, 1; (82304), 4, 2, 2; (82446), 4, 1, 0; (82711), 4, 2, 1; (83496), 4, 2, 1; (83700), 4, 2, 1; (84097), 4, 2, 1; (84110), 4, 2, 1; (84202), 4, 2, 2; (84496), 4, 2, 1; (84566), 3, 1, 0; (85233), 4, 2, 1; (86028), 4, 2, 2; (86317), 4, 2, 2; (86323), 4, 2, 1; (86348), 4, 2, 1; (86351), 4, 2, 2; (86385), 4, 2, 1; (87109), 4, 2, 2; (87112), 3, 1, 0; (87551), 4, 2, 1; (87727), 3, 1, 0; (88113), 4, 2, 1; (88135), 4, 2, 2; (88235), 4, 2, 1; (88438), 4, 2, 1; (88654), 4, 2, 2; (89703), 4, 2, 1; (89794), 4, 2, 1; (89909), 4, 2, 1; (90522), 4, 2, 1; (91027), 4, 2, 2; (91388), 4, 2, 1; (91542), 3, 1, 0; (91550), 4, 2, 1; (91599), 4, 2, 1; (91669), 4, 2, 2; (91879), 4, 2, 1; (91903), 5, 1, 0; (91927), 3, 1, 0; (92017), 4, 2, 1; (92070), 3, 1, 0; (92735), 4, 2, 1; (93637), 4, 2, 1; (93911), 4, 2, 1; (93943), 4, 2, 1; (94045), 4, 2, 1; (94144), 4, 2, 1; (95057), 4, 2, 1; (95581), 4, 2, 1; (95676), 4, 2, 2; (95797), 8, 4, 7; (95850), 4, 2, 2; (95898), 4, 1, 0; (96711), 4, 2, 1; (96815), 4, 2, 2; (96903), 8, 4, 7; (96923), 4, 2, 2; (97069), 4, 2, 1; (97601), 8, 4, 27; (97633), 4, 2, 1; (98206), 4, 2, 2; (98832), 4, 2, 2; (99155), 4, 2, 1; (99929), 4, 2, 1; (99995), 4, 2, 1; (100809), 4, 2, 1; (101218), 4, 1, 0; (102325), 4, 2, 1; (102434), 4, 2, 2; (102969), 4, 2, 1; (103056), 4, 2, 1; (103570), 4, 2, 2; (103629), 4, 2, 1; (103685), 4, 2, 2; (104192), 4, 2, 1; (104387), 4, 2, 1; (105155), 4, 2, 1; (105866), 3, 1, 0; (105906), 4, 2, 1; (105930), 4, 2, 1; (106037), 3, 1, 0; (106285), 4, 2, 1; (106316), 4, 2, 1; (106731), 3, 1, 0; (107796), 3, 1, 0; (108021), 4, 2, 1; (108081), 4, 2, 2; (108111), 4, 2, 2; (108193), 4, 2, 1; (108458), 3, 1, 0; (108654), 4, 2, 1; (108655), 4, 2, 1; (108917), 4, 2, 1; (110141), 4, 2, 1; (112327), 4, 2, 1; (112405), 5, 1, 0; (112476), 4, 2, 1; (112506), 4, 2, 1; (112508), 4, 2, 1; (112571), 5, 2, 1; (112591), 4, 2, 2; (112616), 4, 2, 2; (113185), 4, 2, 1; (113861), 4, 2, 1; (114047), 4, 2, 1; (114199), 4, 2, 2; (114623), 4, 2, 1; (114747), 8, 4, 9; (115646), 4, 2, 1; (116291), 3, 1, 0; (117622), 4, 2, 1; (117844), 4, 2, 2; (118022), 6, 1, 0; (118308), 4, 2, 1; (118413), 3, 1, 0; (118434), 4, 2, 1; (118444), 4, 2, 1; (118903), 4, 2, 1; (119955), 4, 2, 1; (120807), 5, 1, 0; (120986), 5, 1, 0; (121000), 4, 2, 1; (121055), 4, 2, 1; (121186), 4, 2, 1; (121326), 4, 2, 1; (121557), 4, 2, 1; (122188), 4, 2, 1; (122411), 4, 2, 1; (122527), 4, 2, 1; (123117), 4, 2, 1; (123385), 4, 2, 1; (124235), 5, 2, 1; (124930), 4, 2, 1; (126239), 4, 2, 2; (126335), 4, 2, 2; (126469), 3, 1, 0; (127062), 4, 2, 1; (127582), 4, 2, 1; (127859), 4, 2, 2; (129205), 4, 2, 1; (129213), 4, 2, 1; (129330), 4, 2, 1; (129490), 4, 1, 0; (129626), 4, 1, 0; (129844), 4, 2, 2; (130201), 4, 2, 1; (130436), 4, 2, 1; (131144), 4, 2, 1; (131702), 4, 2, 1; (132479), 4, 2, 1; (132623), 4, 2, 1; (132630), 4, 2, 1; (132633), 4, 2, 1; (132635), 4, 2, 1; (132648), 4, 2, 1; (133867), 4, 2, 1; (136382), 4, 2, 1; (136824), 4, 2, 1; (137750), 4, 2, 2; (138245), 4, 2, 1; (139406), 4, 2, 2; (139629), 8, 4, 15; (140405), 4, 2, 2; (140822), 4, 2, 1; (142544), 4, 2, 2; (142915), 4, 2, 1; (143105), 4, 1, 0; (143192), 4, 2, 1; (143403), 4, 2, 2; (143540), 4, 2, 1; (144589), 4, 2, 2; (145222), 4, 2, 2; (145758), 4, 2, 1; (146127), 8, 4, 24; (146237), 4, 2, 1; (146956), 4, 2, 1; (147781), 8, 4, 8; (148105), 4, 2, 1; (148397), 4, 2, 1; (149122), 4, 2, 1; (149278), 4, 2, 2; (150015), 4, 2, 1; (150290), 4, 2, 1; (150474), 4, 2, 1; (150647), 4, 2, 2; (150711), 4, 2, 1; (151532), 4, 2, 1; (151951), 4, 2, 2; (152098), 4, 2, 1; (152115), 4, 1, 0; (152137), 3, 1, 0; (152293), 3, 1, 0; (155955), 4, 2, 1; (156068), 4, 2, 1; (160817), 4, 2, 1; (160826), 4, 2, 1; (161326), 4, 2, 1; (161764), 4, 2, 1; (162097), 4, 2, 1; (162188), 4, 1, 0; (162369), 4, 2, 2; (162767), 4, 2, 2; (164039), 4, 2, 2; (164284), 4, 2, 1; (164652), 4, 2, 1; (164726), 3, 1, 0; (164758), 4, 2, 1; (164984), 4, 2, 1; (166458), 8, 4, 6; (167389), 8, 4, 9; (169022), 4, 2, 1; (169129), 4, 2, 1; (169771), 4, 2, 1; (169779), 4, 2, 1; (169844), 4, 2, 2; (169950), 4, 2, 1; (170460), 5, 1, 0; (171512), 4, 1, 0; (172160), 4, 2, 1; (172314), 4, 2, 2; (173037), 3, 1, 0; (173358), 4, 2, 1; (173707), 4, 2, 2; (174222), 4, 2, 2; (174289), 4, 2, 1; (175024), 4, 2, 1; (176470), 4, 2, 2; (176838), 4, 2, 1; (177085), 4, 2, 2; (177992), 4, 2, 1; (178310), 4, 2, 2; (178468), 4, 2, 1; (178728), 4, 2, 1; (178740), 4, 2, 1; (178772), 4, 2, 1; (179550), 4, 2, 2; (180112), 4, 2, 1; (181232), 4, 2, 1; (182938), 4, 2, 1; (183107), 3, 1, 0; (184238), 4, 2, 1; (184784), 4, 2, 1; (184922), 4, 2, 2; (186172), 3, 1, 0; (186726), 4, 2, 1; (187458), 3, 1, 0; (187836), 4, 2, 1; (188553), 3, 1, 0; (190349), 5, 1, 0; (190477), 4, 2, 2; (191965), 5, 1, 0; (192282), 3, 1, 0; (194162), 4, 2, 2; (194265), 4, 2, 1; (194587), 8, 4, 6; (194700), 4, 2, 2; (195402), 4, 2, 1; (195558), 4, 2, 1; (196214), 4, 2, 2; (199071), 4, 2, 1; (200728), 3, 1, 0; (201950), 4, 2, 1; (205981), 3, 1, 0; (206003), 3, 1, 0; (206380), 4, 2, 2; (207544), 4, 2, 2; (208011), 4, 2, 1; (208915), 4, 2, 1; (209174), 3, 1, 0; (211277), 3, 1, 0; (211693), 4, 2, 1; (213744), 4, 2, 1; (213767), 4, 2, 1; (214476), 4, 2, 1; (214830), 4, 2, 1; (215032), 4, 2, 1; (216510), 4, 2, 1; (216698), 3, 1, 0; (220908), 4, 2, 1; (223505), 4, 2, 1; (226627), 8, 4, 7; (231917), 4, 2, 1; (231959), 4, 2, 1; (233090), 4, 2, 2; (235751), 4, 2, 2; (236278), 4, 2, 1; (236543), 4, 2, 1; (238717), 4, 2, 1; (239827), 4, 2, 1; (240591), 4, 2, 1; (241561), 4, 2, 1; (241735), 4, 2, 2; (242161), 4, 2, 1; (242739), 4, 2, 1; (242938), 4, 2, 1; (242983), 4, 2, 1; (243273), 4, 2, 2; (244448), 4, 2, 1; (244524), 4, 2, 1; (244913), 4, 2, 1; (244914), 8, 4, 24; (245234), 4, 2, 1; (245794), 4, 2, 1; (246094), 4, 2, 1; (246422), 4, 2, 2; (246531), 4, 2, 1; (246987), 5, 1, 0; (247496), 3, 1, 0; (247736), 4, 2, 1; (248479), 4, 2, 1; (248529), 3, 1, 0; (249196), 4, 2, 1; (250180), 5, 1, 0; (250901), 4, 2, 2; (251429), 4, 2, 1; (251517), 4, 2, 1; (253060), 5, 1, 0; (253358), 4, 2, 1; (253515), 3, 1, 0; (254174), 5, 1, 0; (254325), 4, 2, 1; (254413), 5, 1, 0; (255015), 4, 2, 1; (256884), 4, 2, 1; (260219), 4, 2, 1; (261167), 4, 2, 1; (261505), 5, 1, 0; (261691), 4, 2, 2; (263322), 4, 2, 1; (267670), 3, 1, 0; (272431), 4, 2, 1; (274218), 4, 2, 1; (274984), 4, 2, 1; (275320), 4, 2, 1; (278104), 4, 2, 1; (280392), 4, 2, 1; (283219), 3, 1, 0; (283796), 3, 1, 0; (284150), 3, 1, 0; (285393), 4, 2, 1; (286069), 4, 2, 1; (286708), 3, 1, 0; (286828), 8, 4, 7; (287449), 4, 2, 1; (288075), 5, 1, 0; (288666), 4, 2, 1; (290076), 4, 2, 1; (290465), 3, 1, 0; (290498), 4, 2, 1; (291293), 8, 4, 15; (292165), 3, 1, 0; (293935), 4, 2, 1; (295930), 8, 1, 0; (296965), 4, 2, 1; (297053), 4, 2, 1; (298003), 3, 1, 0; (298079), 4, 2, 1; (298100), 4, 2, 1; (298172), 4, 2, 1; (298519), 3, 1, 0; (298571), 3, 1, 0; (298598), 4, 1, 0; (299650), 4, 2, 1; (299651), 4, 2, 1; (300539), 3, 1, 0; (300574), 3, 1, 0; (300646), 3, 1, 0; (301754), 4, 2, 1; (302267), 3, 1, 0; (302696), 4, 2, 1; (302708), 4, 1, 0; (302719), 3, 1, 0; (302770), 3, 1, 0; (303909), 4, 2, 1; (305933), 4, 2, 1; (306799), 3, 1, 0; (307419), 3, 1, 0; (307791), 4, 2, 1; (308368), 4, 2, 1; (308490), 3, 1, 0; (308823), 4, 2, 1; (310314), 4, 2, 1; (311485), 3, 1, 0; (312674), 4, 2, 1; (313306), 4, 2, 1; (313920), 4, 1, 0; (343692), 4, 2, 1; (344634), 4, 2, 1; (347106), 3, 1, 0; (347562), 4, 2, 1; (348181), 4, 2, 1; (349285), 4, 2, 1; (349965), 4, 1, 0; (350905), 4, 2, 1; (351799), 4, 2, 2; (353839), 4, 2, 1; (353992), 4, 2, 1; (357220), 3, 1, 0; (357261), 4, 2, 2; (359700), 4, 2, 1; (362942), 4, 2, 1; (365896), 3, 1, 0; (382494), 3, 1, 0; (387558), 4, 2, 1; (388561), 4, 2, 1; (389609), 4, 2, 2; (390364), 4, 2, 1; (390741), 3, 1, 0; (393707), 5, 1, 0; (393710), 4, 1, 0; (394017), 5, 1, 0; (394046), 4, 2, 1; (394789), 4, 2, 1; (395099), 4, 2, 2; (395268), 4, 2, 1; (395282), 4, 2, 1; (395457), 4, 2, 1; (396534), 4, 2, 1; (397093), 4, 2, 1; (397898), 4, 2, 1; (398541), 4, 2, 2; (398733), 4, 2, 1; (434787), 3, 1, 0; (437999), 4, 2, 1; (438092), 4, 2, 1; (438119), 4, 2, 1; (438214), 4, 2, 1; (438343), 4, 2, 2; (438357), 4, 1, 0; (439097), 4, 2, 1; (439114), 4, 2, 1; (439312), 4, 2, 1; (439588), 4, 2, 1; *[3448, 843, 13*, 2010/02/13–2015/08/11]*

I52 Steward Observatory, Mt. Lemmon Station

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eric@lpl.arizona.edu]
Observers S. M. Larson, A. R. Gibbs
Measurers A. Boattini, E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson, R. A. Kowalski, S. M. Larson, R. H. McNaught
1.0-m Cassegrain + CCD
UCAC-3

2014 WB_{439}, 4, 1, 0; 2014 WQ_{483}, 4, 1, 0; 2015 KZ_{159}, 4, 1, 0; 2015 LN_{38}, 3, 1, 0; 2015 NM_{21}, 2, 1, 0; (439763), 4, 1, 0; *[21, 6, 0*, 2014/11/29–2015/06/16]*

I57 Elche

J. Lozano, C/Antonio Garcma Campos no 4.1, Elche 03202, Spain
[juanlo@ono.com]

0.25-m f/6.3 Corrected Dall-Kirkham + CCD
USNO-A2.0, CMC-15
2015 NF, 3, 1, 0; *[3, 1, 0∗, 2015/07/05]*

I61 Ourense
F. Fernández, C/ Cesáreo González 18, Ourense 32005, Spain [aristarco@aristarco.org]
0.20-m f/6.3 Schmidt-Cassegrain + CCD
UCAC-3
(4055), 6, 3, 21; (348400), 6, 3, 6; *[12, 2, 0∗, 2015/07/07–2015/07/28]*

I66 Taurus Australis Observatory, Brasilia
M. B. Sparrenberger, SQSW103 Bl. G ap. 201, Brasilia, Brazil [macielbassp@gmail.com]
0.32-m f/4.7 reflector + CCD
PPMXL
(102), 4, 1, 0; (487), 4, 1, 0; (9801), 7, 1, 0; (11365), 10, 1, 0; *[25, 4, 0∗, 2015/07/29–2015/08/02]*

I89 iTelescope Observatory, Nerpio
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (16)
B. Haeusler, no details supplied (25)
M. Miller, no details supplied [mmiller@hctc.net] (27)
Observers M. Miller, S. M. Tilley, A. Novichonok, B. Haeusler
Measurers M. Miller, S. M. Tilley, T. Prystavski, B. Haeusler
0.43-m f/6.8 astrograph + CCD, 0.32-m f/8.0 astrograph + CCD, 0.15-m f/7.3 refractor + CCD
UCAC-4, CMC, USNO-A2.0
{16} 2015 JH_2, 3, 1, 0; 2015 NK_{13}, 9, 3, 9; 2015 OH, 4, 1, 0; 2015 PU_{228}, 3, 1, 0; (290465), 3, 1, 0; *[22, 5, 0∗, 2015/07/09–2015/08/24]*

{25} 2015 ML_{130}, 3, 1, 0; 2015 PC_{62}, 8, 2, 7; (114110), 3, 1, 0; (128134), 3, 1, 0; (255210), 3, 1, 0; *[20, 5, 0∗, 2015/08/14–2015/08/21]*

{27} (9), 3, 1, 0; (15), 7, 2, 1; (29), 4, 1, 0; (467), 5, 1, 0; (471), 4, 1, 0; (9559), 2, 1, 0; (49924), 3, 1, 0; (103576), 6, 1, 0; *[34, 8, 0∗, 2015/08/03–2015/08/14]*

I93 St Pardon de Conques
F. Losse, 12 Roberts, F-33210 St. Pardon de Conques, France [florent_losse@yahoo.fr]
0.40-m f/3.7 reflector + CCD
UCAC-4
2010 PR_{66}, 4, 1, 0; 2011 UK_{124}, 3, 1, 0; 2012 AO_7, 3, 1, 0; 2012 DM_{60}, 3, 1, 0; 2014 KR_2, 3, 1, 0; 2015 JY_1, 3, 1, 0; 2015 LB_{40}, 3, 1, 0; 2015 MP_1, 3, 1, 0; 2015 MN_{116}, 3, 1, 0; 2015 NA_{10}, 3, 1, 0; 2015 NE_{13}, 2, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 NP_{13}, 2, 1, 0; 2015 NA_{14}, 4, 1, 0; 2015 ON, 3, 1, 0; 2015 OO, 2, 1, 0; 2015 OK_{21}, 3, 1, 0; 2015 OL_{21}, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OC_{22}, 2, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 OC_{78}, 3, 1, 0; 2015 OT_{78}, 3, 1, 0; 2015 PD, 2, 1, 0; 2015 PT, 3, 1, 0; 2015 PH_9, 3, 1, 0; 2015 PK_9, 3, 1, 0; 2015 PL_9, 3, 1, 0; 2015 PP_{56}, 6, 2, 1; 2015 PQ_{56}, 3, 1, 0; 2015 PS_{56}, 3, 1, 0; 2015 PA_{57}, 3, 1, 0; 2015 PU_{228}, 3, 1, 0; 2015 PV_{228}, 3, 1, 0; 2015 PZ_{228}, 3, 1, 0; 2015 PA_{229}, 3, 1, 0; 2015 PT_{291}, 3, 1, 0; 2015 PH_{307} ∗, 6, 2, 3; 2015 PM_{307}, 3, 1, 0; 2015 QB, 3, 1, 0; 2015 QG, 3, 1, 0; 2015 QJ, 3, 1, 0; 2015 QK, 4, 1, 0; 2015 QM ∗, 5, 2, 3; 2015 QN ∗, 5, 2, 3; 2015 QH_3, 3, 1, 0; 2015 QJ_3, 3, 1, 0; 2015 QM_3, 3, 1, 0; 2015 QN_3, 3, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QP_3, 3, 1, 0; 2015 QQ_3, 3, 1, 0; 2015 QR_3, 3, 1, 0; (1164), 3, 1, 0; (5021), 3, 1, 0; (6178), 2, 1, 0; (7642), 3, 1, 0; (17185), 2, 1, 0; (26127), 3, 1, 0; (27490), 3, 1, 0; (32414), 3, 1, 0; (32545), 3, 1, 0; (36147), 3, 1, 0; (38359), 3, 1, 0; (39718), 2, 1, 0; (40208), 3, 1, 0; (45416), 3, 1, 0; (46192), 2, 1, 0; (50079), 2, 1, 0; (55030), 3, 1, 0; (59299), 3, 1, 0; (65526), 2, 1, 0; (66581), 2, 1, 0; (67826), 3, 1, 0; (76035), 3, 1, 0; (81441), 2, 1, 0; (82612), 2, 1, 0; (86213), 2, 1, 0; (89866), 5, 2, 3; (92192), 3, 1, 0; (94840), 2, 1, 0; (95596), 3, 1, 0; (96147), 3, 1, 0; (101124), 3, 1, 0; (105701), 2, 1, 0; (107225), 3, 1, 0; (113643), 3, 1, 0; (117417), 2, 1, 0; (118964), 3, 1, 0; (119416), 2, 1, 0; (122355), 3, 1, 0; (122405), 3, 1, 0; (128071), 3, 1, 0; (133088), 2, 1, 0; (147963), 3, 1, 0; (150681), 2, 1, 0; (161037), 3, 1, 0; (163843), 3, 1, 0; (163965), 3, 1, 0; (170087), 3, 1, 0; (177070), 3, 1, 0; (199189), 3, 1, 0; (200369), 3, 1, 0; (211746), 3, 1, 0; (215724), 2, 1, 0; (228727), 2, 1, 0; (243963), 2, 1, 0; (244687), 2, 1, 0; (287139), 3, 1, 0; (293880), 3, 1, 0; (294054), 2, 1, 0; (304420), 3, 1, 0; (339849), 3, 1, 0; (352853), 3, 1, 0; (356536), 3, 1, 0; (391121), 3, 1, 0; (395263), 3, 1, 0; (398454), 2, 1, 0; (400906), 3, 1, 0; (434996), 3, 1, 0; (437962), 2, 1, 0; (439559), 2, 1, 0; *[352, 122, 3∗, 2015/06/21–2015/08/21]*

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. Micheli, H. Bill, M. Busch, A. Knöfel, D. Koschny, E. Schwab, C. Busch, G. Lehmann, P. Schmeer, U. Carsenty, J. Linder, R. Reszelewski, S. Shurpakov, C. Liefke, T. Thommes
1.0-m f/4.4 reflector + CCD
PPMXL, UCAC-4, USNO-A2.0
2001 SY_{195}, 4, 1, 0; 2005 UU_{127}, 3, 1, 0; 2005 UD_{277}, 3, 1, 0; 2007 EZ, 3, 1, 0; 2009 BR_{70}, 8, 2, 3; 2010 YB, 6, 2, 1; 2011 BX_{10}, 6, 2, 1; 2011 JE_9, 4, 1, 0; 2011 OT_{20}, 4, 1, 0; 2011 QJ_{62}, 3, 1, 0; 2011 UH_{330}, 4, 1, 0; 2012 BN_{77}, 5, 2, 2; 2012 BM_{86}, 2, 1, 0; 2012 CU_{40}, 3, 1, 0; 2012 KA_4, 6, 2, 1; 2012 SG_{32}, 2, 1, 0; 2013 AF_{121}, 4, 1, 0; 2013 CH_{105}, 4, 1, 0; 2013 YA_4, 2, 1, 0; 2014 KQ_6, 4, 1, 0; 2014 ON_{344}, 3, 1, 0; 2014 UB, 4, 1, 0; 2014 UC_{67}, 4, 1, 0; 2014 WG_{109}, 3, 1, 0; 2014 WP_{249}, 4, 1, 0; 2014 WY_{288}, 3, 1, 0; 2014 WU_{490}, 3, 1, 0; 2014 XC_5, 6, 2, 1; 2014 XQ_{14}, 3, 1, 0; 2014 YK_{30}, 4, 1, 0; 2015 AW_{34}, 3, 1, 0; 2015 BM_3, 4, 1, 0; 2015 BN_{38}, 3, 1, 0; 2015 DC_{147}, 4, 1, 0; 2015 HF_{11}, 2, 1, 0; 2015 KP_{17}, 10, 3, 445; 2015 KX_{36}, 8, 2, 30; 2015 KL_{157}, 2, 1, 0; 2015 KD_{161}, 4, 1, 0; 2015 LH_{24}, 1, 1, 0; 2015 LS_{24}, 3, 1, 0; 2015 MQ_7, 3, 1, 0; 2015 MQ_8, 4, 1, 0; 2015 MS_8, 4, 1, 0; 2015 MO_{15}, 4, 1, 0; 2015 MV_{44}, 4, 1, 0; 2015 MS_{45}, 3, 1, 0; 2015 MD_{48}, 4, 1, 0; 2015 MC_{52}, 3, 1, 0; 2015 MP_{58}, 3, 1, 0; 2015 MY_{75}, 3, 1, 0; 2015 MW_{76}, 3, 1, 0; 2015 ME_{78}, 3, 1, 0; 2015 MQ_{101}, 2, 1, 0; 2015 MG_{104}, 2, 1, 0; 2015 MT_{105}, 3, 1, 0; 2015 MP_{109}, 4, 1, 0; 2015 MC_{110}, 4, 1, 0; 2015 MG_{126}, 4, 1, 0; 2015 MJ_{127}, 3, 1, 0; 2015 NF, 3, 1, 0; 2015 NW_3, 4, 1, 0; 2015 NB_4, 3, 1, 0; 2015 NG_{13}, 5, 2, 3; 2015 NH_{13}, 3, 1, 0; 2015 NK_{13}, 6, 2, 2; 2015 NT_{13}, 3, 1, 0; 2015 NU_{13}, 4, 2, 3; 2015 NV_{13}, 3, 1, 0; 2015 NW_{13}, 2, 1, 0; 2015 NT_{23}, 3, 1, 0; 2015 NF_{24}, 2, 1, 0; 2015 NJ_{24}, 2, 1, 0; 2015 OC, 4, 1, 0; 2015 OF, 4, 1, 0; 2015 OX ∗, 4, 1, 0; 2015 OB_1 ∗, 4, 1, 0; 2015 OL_4, 4, 1, 0; 2015 OC_5, 4, 1, 0; 2015 OD_{28}, 3, 1, 0; 2015 OT_{30}, 3, 1, 0; 2015 OG_{36}, 4, 1, 0; 2015 OW_{38}, 4, 1, 0; 2015 OR_{50}, 4, 1, 0; 2015 OX_{74}, 3, 1, 0; 2015 OJ_{75}, 3, 1, 0; 2015 PU_1, 4, 1, 0; 2015 PO_{31}, 2, 1, 0; 2015 PV_{31}, 3, 1, 0; 2015 PW_{42}, 4, 1, 0; 2015 PG_{228}, 2, 1, 0; 2015 PM_{228}, 3, 1, 0; 2015 PV_{242}, 4, 1, 0; 2015 PA_{281} ∗, 4, 1, 0; 2015 PA_{292} ∗, 3, 1, 0; (7349), 1, 1, 0; (60509), 1, 1, 0; (60980), 1, 1, 0; (70114), 1, 1, 0; (206359), 2, 1, 0; (247861), 3, 1, 0; (254891), 1, 1, 0; (260925), 1, 1, 0; (266668), 1, 1, 0; (271181), 1, 1, 0; (272914), 1, 1, 0; (416283), 3, 1, 0; (429138), 1, 1, 0; (439036), 3, 1, 0; *[365, 109, 4∗, 2010/09/11–2015/08/15]*

J13 La Palma-Liverpool Telescope
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J.-L. Ortiz, no details supplied [ortiz@iaa.es] (7)
Observers J. L. Ortiz, M. Altmann, J. Marchant, I. Steele, T. Lister, T. Boroson
Measurers J. L. Ortiz, C. Barache, S. Bouquillon, T. Carlucci, F. Taris
2.0-m reflector + CCD
USNO-B1.0, PPMXL
{6} 2014 HY_{41}, 5, 1, 0; (44900), 20, 1, 0; (51313), 20, 1, 0; (119177), 20, 1, 0; (169907), 20, 1, 0; (231163), 19, 1, 0; (395950), 20, 1, 0; *[124, 7, 0∗, 2015/08/19–2015/08/23]*

{7} 2007 TL_{62}, 9, 1, 0; (241116), 9, 1, 0; *[18, 2, 0∗, 2015/07/19]*

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, CMC-15

2015 PZ_{228}, 3, 1, 0; 2015 QB, 3, 1, 0; 2015 QJ, 3, 1, 0; 2015 QK, 5, 1, 0; 2015 QJ_3, 3, 1, 0; 2015 QM_3, 3, 1, 0; 2015 QN_3, 3, 1, 0; 2015 QO_3, 3, 1, 0; 2015 QB_9, 4, 1, 0; (2060), 6, 2, 7; (60558), 9, 3, 5; *[45, 11, 0*, 2015/08/15–2015/08/23]*

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-B1.0

(491), 3, 1, 0; (1316), 3, 1, 0; (1794), 3, 1, 0; (4636), 3, 1, 0; *[12, 4, 0*, 2015/08/10]*

J38 Observatorio La Vara, Valdés

F. García, Observatorio La Vara, Valdés, Asturias, Spain [faustino.garcia@gmail.com]

0.25-m $f/8.1$ Ritchey-Chrétien + CCD

CMC-15

(1031), 6, 1, 0; *[6, 1, 0*, 2015/08/19]*

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, F. Kugel, M. Ory

0.5-m $f/3$ reflector + CCD

UCAC-4, UCAC-3, NOMAD, USNO-A2.0

2002 RJ_{128}, 4, 1, 0; 2002 RT_{247}, 4, 1, 0; 2004 RX_{159}, 12, 2, 1; 2004 RS_{221}, 4, 1, 0; 2006 RQ_{22}, 4, 1, 0; 2006 UN_{142}, 4, 1, 0; 2007 VD_{146}, 4, 1, 0; 2008 DT_{86}, 4, 1, 0; 2008 SE_{202}, 4, 1, 0; 2008 SA_{300}, 4, 1, 0; 2008 UN_{246}, 4, 1, 0; 2008 WB_{45}, 6, 2, 1; 2008 YU_{102}, 8, 2, 1; 2009 WH_{190}, 4, 1, 0; 2010 MS_{79}, 4, 1, 0; 2010 UQ_{82}, 4, 1, 0; 2010 VK_{77}, 8, 2, 1; 2011 SX_{126}, 4, 1, 0; 2011 SC_{233}, 4, 1, 0; 2011 UT_{128}, 8, 2, 1; 2011 UU_{334}, 8, 2, 1; 2013 AR_7, 4, 1, 0; 2014 HF_{183}, 4, 1, 0; 2014 TZ_1, 8, 2, 2; 2014 UB_{69}, 5, 1, 0; 2014 UD_{81}, 4, 1, 0; 2014 UU_{89}, 4, 1, 0; 2014 UB_{196}, 4, 1, 0; 2014 UY_{196}, 4, 1, 0; 2014 WV_6, 4, 1, 0; 2014 WZ_{29}, 4, 1, 0; 2014 WW_{66}, 4, 1, 0; 2014 WO_{361}, 4, 1, 0; 2014 WD_{453}, 4, 1, 0; 2014 WE_{464}, 4, 1, 0; 2014 WV_{475}, 4, 1, 0; 2014 WM_{498}, 4, 1, 0; 2014 YC_{32}, 8, 2, 31; 2015 BJ_{32}, 4, 1, 0; 2015 DF_{38}, 4, 1, 0; 2015 FX_2, 4, 1, 0; 2015 FX_{125}, 7, 2, 2; 2015 HJ_{60}, 8, 2, 1; 2015 KS_6, 4, 1, 0; 2015 KF_{27}, 4, 1, 0; 2015 KR_{49}, 4, 1, 0; 2015 KG_{59}, 4, 1, 0; 2015 MJ_{92}, 4, 1, 0; 2015 MP_{108}, 4, 1, 0; 2015 MZ_{117}, 4, 1, 0; 2015 MC_{120}, 3, 1, 0; 2015 NT_7, 2, 1, 0; 2015 NT_{10}, 4, 1, 0; 2015 NR_{22}, 4, 1, 0; 2015 NG_{25}, 4, 1, 0; 2015 NO_{25}, 8, 2, 1; 2015 NQ_{25}, 4, 1, 0; 2015 OU_4, 4, 1, 0; 2015 OR_{38}, 12, 2, 1; 2015 OO_{47} *, 6, 2, 1; 2015 OO_{68}, 4, 1, 0; 2015 OV_{73}, 4, 1, 0; 2015 PY_{12}, 4, 1, 0; 2015 PZ_{12}, 4, 1, 0; 2015 PG_{307} *, 6, 2, 1; 2015 PJ_{307} *, 7, 2, 1; 2015 QL *, 8, 2, 1; 2015 QP *, 12, 2, 1; 2015 QQ *, 8, 2, 1; 2015 QR *, 8, 2, 1; 2015 QS *, 8, 2, 1; 2015 QU *, 6, 2, 1; (342), 8, 2, 1; (1136), 8, 2, 2; (1199), 9, 2, 2; (1695), 4, 1, 0; (3175), 8, 2, 1; (3693), 8, 2, 1; (4152), 4, 1, 0; (5212), 4, 1, 0; (5721), 4, 1, 0; (7205), 8, 2, 1; (8817), 7, 2, 1; (9040), 8, 2, 1; (9319), 4, 1, 0; (9451), 3, 1, 0; (10536), 8, 2, 1; (10788), 8, 2, 1; (10959), 4, 1, 0; (11455), 8, 2, 1; (12237), 4, 1, 0; (12357), 8, 2, 1; (12547), 4, 1, 0; (12780), 4, 1, 0; (13033), 4, 1, 0; (13938), 4, 1, 0; (14118), 8, 2, 1; (14473), 8, 2, 1; (14923), 4, 1, 0; (15160), 4, 1, 0; (16661), 4, 1, 0; (16958), 4, 1, 0; (16976), 8, 2, 1; (17054), 8, 2, 1; (17180), 4, 1, 0; (17471), 4, 1, 0; (18130), 5, 1, 0; (18230), 4, 1, 0; (18632), 4, 1, 0; (18831), 4, 1, 0; (18878), 7, 2, 1; (18989), 4, 1, 0; (19686), 9, 2, 2; (20628), 4, 1, 0; (20699), 5, 1, 0; (22083), 4, 1, 0; (22440), 4, 1, 0; (22775), 8, 2, 1; (23427), 4, 1, 0; (23899), 8, 2, 1; (25732), 4, 1, 0; (25984), 7, 2, 1; (26015), 9, 2, 2; (27347), 3, 1, 0; (28045), 4, 1, 0; (29680), 4, 1, 0; (29774), 2, 1, 0; (31495), 8, 2, 1; (32149), 4, 1, 0; (32735), 4, 1, 0; (32810), 8, 2, 1; (33991), 8, 2, 1; (34100), 3, 1, 0; (34955), 8, 2, 1; (35465), 3, 1, 0; (35664), 8, 2, 1; (36222), 10, 2, 1; (36285), 4, 1, 0; (36805), 4, 1, 0; (36827), 4, 1, 0; (37411), 4, 1, 0; (37652), 8, 2, 1; (37968), 4, 1, 0; (38507), 8, 2, 1; (38511), 4, 1, 0; (38545), 8, 2, 1; (38548), 4, 1, 0; (39518), 4, 1, 0; (40156), 4, 1, 0; (41467), 4, 1, 0; (42134), 4, 1, 0; (42972), 4, 1, 0; (43618), 4, 1, 0; (43791), 4, 1, 0; (44206), 4, 1, 0; (44462), 8, 2, 1; (44541), 1, 1, 0; (44687), 4, 1, 0; (44848), 4, 1, 0; (45028), 2, 1, 0; (45841), 8, 2, 1; (46036), 3, 1, 0; (46183), 4, 1, 0; (46633), 4, 1, 0; (46874), 4, 1, 0; (46930), 4, 1, 0; (46987), 4, 1, 0; (47518), 6, 1, 0; (49228), 7, 2, 1; (49425), 4, 1, 0; (49829), 4, 1, 0; (50197), 8, 2, 1; (52240), 4, 1, 0; (52349), 6, 2, 1; (53805), 4, 1, 0; (54247), 4, 1, 0; (54799), 7, 2, 1; (55207), 4, 1, 0; (55417), 4, 1, 0; (55870), 3, 1, 0; (56304), 4, 1, 0; (56808), 4, 1, 0; (57098), 8, 2, 1; (58039), 3, 1, 0; (59382), 1, 1, 0; (59744), 4, 1, 0; (59948), 7, 2, 1; (60359), 4, 1, 0; (60363), 8, 2, 1; (61117), 8, 2, 1; (61312), 4, 1, 0; (63000), 4, 1, 0; (64236), 4, 1, 0; (65336), 4, 1, 0; (66436), 8, 2, 1; (66511), 4, 1, 0; (66626), 8, 2, 2; (69660), 4, 1, 0; (69999), 8, 2, 1; (70749), 4, 1, 0; (73193), 4, 1, 0; (74137), 4, 1, 0; (74148), 4, 1, 0; (74332), 8, 2, 1; (75708), 8, 2, 1; (75880), 8, 2, 1; (75895), 8, 2, 1; (76000), 3, 1, 0; (77208), 4, 1, 0; (78104), 4, 1, 0; (78111), 4, 1, 0; (78567), 8, 2, 1; (79340), 4, 1, 0; (81586), 4, 1, 0; (84673), 8, 2, 1; (85492), 8, 2, 1; (86077), 3, 1, 0; (86145), 8, 2, 1; (86191), 4, 1, 0; (86262), 4, 1, 0; (86335), 4, 1, 0; (86467), 8, 2, 1; (88301), 8, 2, 1; (90386), 8, 2, 1; (90651), 8, 2, 1; (91000), 8, 2, 1; (91840), 8, 2, 1; (91857), 4, 1, 0; (93078), 4, 1, 0; (96557), 3, 1, 0; (96736), 4, 1, 0; (98619), 8, 2, 1; (101478), 8, 2, 1; (102207), 4, 1, 0; (102701), 4, 1, 0; (102923), 4, 1, 0; (102956), 8, 2, 1; (103480), 4, 1, 0; (104080), 3, 1, 0; (105832), 8, 2, 1; (106638), 8, 2, 1; (107332), 8, 2, 1; (107476), 4, 1, 0; (107793), 4, 1, 0; (111162), 8, 2, 1; (112489), 4, 1, 0; (113451), 8, 2, 1; (113840), 4, 1, 0; (114623), 4, 1, 0; (115808), 4, 1, 0; (118308), 8, 2, 1; (118467), 4, 1, 0; (118514), 7, 2, 1; (118557), 12, 2, 1; (119754), 4, 1, 0; (119960), 8, 2, 1; (122724), 4, 1, 0; (123314), 8, 2, 1; (124312), 8, 2, 1; (126326), 8, 2, 1; (127937), 8, 2, 1; (127991), 4, 1, 0; (128436), 4, 1, 0; (128453), 8, 2, 1; (128479), 4, 1, 0; (129362), 4, 1, 0; (130014), 8, 2, 1; (130045), 4, 1, 0; (130342), 4, 1, 0; (130609), 4, 1, 0; (131090), 8, 2, 1; (132606), 4, 1, 0; (134758), 4, 1, 0; (136098), 4, 1, 0; (137989), 5, 1, 0; (138271), 4, 1, 0; (142212), 8, 2, 1; (142483), 8, 2, 1; (148424), 8, 2, 1; (150065), 4, 1, 0; (152098), 8, 2, 1; (153443), 4, 1, 0; (155243), 4, 1, 0; (157241), 8, 2, 1; (158180), 4, 1, 0; (158850), 4, 1, 0; (160987), 8, 2, 1; (161473), 8, 2, 1; (162252), 4, 1, 0; (162339), 8, 2, 1; (167168), 4, 1, 0; (169098), 8, 2, 1; (169921), 4, 1, 0; (170485), 4, 1, 0; (171159), 4, 1, 0; (172341), 4, 1, 0; (173687), 8, 2, 1; (173793), 8, 2, 1; (174080), 4, 1, 0; (174155), 4, 1, 0; (174303), 4, 1, 0; (174960), 4, 1, 0; (175026), 4, 1, 0; (176562), 4, 1, 0; (176858), 8, 2, 1; (177946), 4, 1, 0; (184537), 8, 2, 1; (186471), 5, 1, 0; (188668), 4, 1, 0; (189840), 4, 1, 0; (190799), 4, 1, 0; (190824), 8, 2, 1; (190843), 7, 2, 1; (195118), 4, 1, 0; (200075), 3, 1, 0; (201035), 4, 1, 0; (202044), 4, 1, 0; (205327), 7, 2, 1; (205786), 4, 1, 0; (206729), 4, 1, 0; (208878), 8, 2, 1; (209242), 4, 1, 0; (209328), 4, 1, 0; (209709), 4, 1, 0; (211353), 4, 1, 0; (212605), 4, 1, 0; (216318), 4, 1, 0; (217371), 4, 1, 0; (221329), 4, 1, 0; (229669), 8, 2, 1; (230858), 8, 2, 1; (231728), 4, 1, 0; (232454), 4, 1, 0; (238149), 4, 1, 0; (240194), 8, 2, 1; (240369), 8, 2, 1; (241586), 4, 1, 0; (241738), 8, 2, 1; (241761), 4, 1, 0; (242006), 4, 1, 0; (245195), 4, 1, 0; (245580), 4, 1, 0; (246394), 4, 1, 0; (246531), 8, 2, 1; (246681), 4, 1, 0; (250835), 4, 1, 0; (254156), 12, 2, 1; (254205), 4, 1, 0; (254209), 4, 1, 0; (255303), 4, 1, 0; (256884), 4, 1, 0; (257651), 4, 1, 0; (258059), 4, 1, 0; (260114), 8, 2, 1; (262492), 4, 1, 0; (274275), 8, 2, 1; (279428), 4, 1, 0; (280832), 8, 2, 1; (283233), 4, 1, 0; (283772), 8, 2, 1; (285785), 4, 1, 0; (287023), 4, 1, 0; (288633), 4, 1, 0; (289726), 4, 1, 0; (291102), 4, 1, 0; (295940), 4, 1, 0; (297958), 4, 1, 0; (298532), 8, 2, 1; (300571), 4, 1, 0; (301349), 8, 2, 1; (302662), 8, 2, 1; (302714), 4, 1, 0; (303569), 4, 1, 0; (304143), 8, 2, 1; (304180), 4, 1, 0; (305165), 4, 1, 0; (305798), 7, 2, 1; (306087), 8, 2, 1; (306551), 4, 1, 0; (311125), 4, 1, 0; (316464), 4, 1, 0; (323550), 4, 1, 0; (333148), 4, 1, 0; (344079), 8, 2, 1; (348187), 4, 1, 0; (349586), 4, 1, 0; (350678), 8, 2, 1; (354326), 8, 2, 1; (354491), 4, 1, 0; (359494), 8, 2, 1; (362275), 4, 1, 0; (367261), 4, 1, 0; (382283), 8, 2, 1; (388931), 4, 1, 0; (393855), 8, 2, 1; (394057), 4, 1, 0; (395437), 4, 1, 0; (397005), 8, 2, 1; (401160), 4, 1, 0; (439729), 4, 1, 0; *[2141, 400, 9*, 2011/10/25–2015/08/20]*

J53 Posadas

R. Benavides, Gaitan 20, E-14730 Posadas-Córdoba, Spain [Rafaelbenpal@hotmail.com]

0.28-m $f/5$ Schmidt-Cassegrain + CCD

CMC

(21885), 3, 1, 0; (75768), 3, 1, 0; *[6, 2, 0*, 2015/08/19–2015/08/20]*

J69 North Observatory, Clanfield

D. Briggs, 124 Redbridge Grove, Havant, Portsmouth PO9 3DF, England [dbriggs@kepler.demon.co.uk]

0.41-m $f/4.5$ Newtonian reflector + CCD

UCAC-4

2010 PR_{66}, 3, 1, 0; 2015 OQ_{21}, 4, 1, 0; 2015 PK_9, 4, 1, 0; (436724), 4, 1, 0; *[15, 4, 0*, 2015/07/17–2015/08/12]*

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

2004 PJ_{87}, 3, 1, 0; 2007 UM_{14}, 3, 1, 0; 2014 UA_{167}, 3, 1, 0; 2014 US_{180}, 3, 1, 0; 2014 WS_{51}, 3, 1, 0; 2015 AJ_{86}, 3, 1, 0; 2015 AX_{162}, 3, 1, 0; 2015 AL_{214}, 6, 2, 1859; 2015 BJ_{37}, 3, 1, 0; 2015 DN_{32}, 3, 1, 0; 2015 HW_{55}, 3, 1, 0; 2015 LO_{31}, 3, 1, 0; 2015 LP_{39}, 3, 1, 0; 2015 MY, 3, 1, 0; 2015 MS_{17}, 3, 1, 0; 2015 MJ_{58}, 3, 1, 0; 2015 MV_{58}, 3, 1, 0; 2015 MY_{64}, 3, 1, 0; 2015 MP_{68}, 3, 1, 0; 2015 MS_{114}, 3, 1, 0; 2015 MZ_{114}, 3, 1, 0; 2015 MG_{126}, 3, 1, 0; 2015 NB_4, 3, 1, 0; 2015 NS_8, 6, 1, 0; 2015 NX_8, 3, 1, 0; 2015 NG_{23}, 3, 1, 0; 2015 NQ_{24}, 3, 1, 0; 2015 OH_3, 3, 1, 0; 2015 OH_{19}, 3, 1, 0; 2015 OW_{69}, 3, 1, 0; (439828), 3, 1, 0; *[99, 31, 0*, 2007/11/19–2013/09/12]*

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 J. L. Ortiz, F. Aceituno, O. Vaduvescu
1.5-m $f/8$ reflector + CCD
USNO-B1.0, PPMXL
2015 QT_4, 18, 2, 1; (318288), 10, 1, 0; *[28, 2, 0∗, 2015/08/19–2015/08/20]*

J95 Great Shefford
P. Birtwhistle, Phlox Cottage, Wantage Road, Great Shefford, Berkshire RG17 7DA, England [peter@birtwhi.demon.co.uk]
0.40-m $f/6.0$ Schmidt-Cassegrain + CCD
UCAC-4
2015 MG_{116}, 4, 1, 0; 2015 MN_{116}, 3, 1, 0; 2015 MO_{116}, 6, 2, 6; 2015 NF, 3, 1, 0; 2015 ND_3, 2, 1, 0; 2015 NJ_3, 2, 1, 0; 2015 NK_{13}, 13, 5, 37; 2015 NA_{14}, 3, 1, 0; 2015 OH, 3, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OQ_{21}, 7, 1, 0; 2015 OB_{22}, 2, 1, 0; 2015 OC_{79}, 3, 1, 0; 2015 PC, 3, 1, 0; 2015 PD, 4, 2, 2; 2015 PM, 6, 2, 2; 2015 PT, 3, 1, 0; 2015 PK_9, 3, 1, 0; 2015 PA_{57}, 3, 1, 0; 2015 PU_{228}, 3, 1, 0; 2015 PV_{228}, 3, 1, 0; 2015 PZ_{228}, 3, 1, 0; 2015 PA_{229}, 3, 1, 0; 2015 QH_3, 3, 1, 0; 2015 QS_8, 3, 1, 0; 2015 QA_9, 3, 1, 0; 2015 QB_9, 3, 1, 0; 2015 QD_9, 3, 1, 0; (436724), 3, 1, 0; *[106, 29, 0∗, 2015/06/29–2015/08/23]*

K14 Observatorio de Sencelles
M. Morales, Son Fred Rd. 1, 07140 Sencelles, Balearic Island, Spain [observatorio.de.sencelles@gmail.com]
0.20-m $f/5$ Newtonian reflector + CCD
USNO-A2.0, UCAC-4
2015 JY_1, 3, 1, 0; 2015 KQ_{154}, 2, 1, 0; 2015 MF_{95}, 2, 1, 0; 2015 NF, 6, 2, 1; 2015 NK_{13}, 2, 1, 0; 2015 NS_{13}, 3, 1, 0; 2015 NA_{14}, 4, 1, 0; 2015 OH, 5, 2, 14; (1566), 2, 1, 0; (4055), 8, 2, 2; (7822), 6, 2, 3; (14222), 5, 2, 1; (54789), 3, 1, 0; (68278), 2, 1, 0; (85989), 10, 3, 14; (86666), 8, 3, 11; (112985), 9, 2, 4; (134340), 2, 1, 0; (206378), 3, 1, 0; (348400), 17, 4, 11; (385186), 3, 1, 0; (436724), 9, 2, 1; *[114, 22, 0∗, 2015/06/30–2015/08/24]*

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
(44277), 2, 1, 0; *[2, 1, 0∗, 2015/07/20]*

K32 Maritime Alps Observatory, Cuneo
G. Locatelli, via Mellana 26, 12100 Cuneo, Italy [locatellivet@inode.it]
0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
UCAC-4
(18), 3, 1, 0; (57), 3, 1, 0; *[6, 2, 0∗, 2015/08/20–2015/08/25]*

K37 Cereseto
S. Puccini, Via Garibaldi 45, Casale Monferrato 15033, Italy [starfield@tin.it]
Observers R. Milano, M. Basile, E. Manfredi, F. Puccini, S. Puccini
Measurer S. Puccini
0.40-m $f/3.9$ reflector + CCD
UCAC-2
(183), 6, 1, 0; (4132), 6, 1, 0; (4483), 10, 1, 0; (294739), 2, 1, 0; (385186), 6, 1, 0; *[30, 5, 0∗, 2015/07/22–2015/07/28]*

K38 M57 Observatory, Saltrio
G. Baj, via Viggiu 35, Saltrio, Varese, Italy [amir31@alice.it]
0.25-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2015 GD, 9, 2, 11; 2015 JY_1, 4, 1, 0; 2015 MP_1, 4, 1, 0; 2015 MZ_{59}, 5, 2, 5; 2015 MN_{116}, 9, 2, 1; 2015 NF, 3, 1, 0; 2015 NK_{13}, 3, 1, 0; 2015 OH, 2, 1, 0; 2015 OS, 2, 1, 0; 2015 OH_{22}, 4, 1, 0; (47048), 4, 1, 0; (85989), 9, 1, 0; (348400), 6, 1, 0; (436724), 19, 3, 34; *[83, 14, 0∗, 2015/06/29–2015/08/27]*

K41 Vegaquattro Astronomical Obs., Novi Ligure
V. Luna, via D.L.Sturzo 15, Novi Ligure (AL), Italy [vegaquattro@gmail.com]
0.3-m Schmidt-Cassegrain + CCD
UCAC-4
(31629), 2, 1, 0; (58163), 1, 1, 0; (60558), 4, 2, 4; (95402), 1, 1, 0; (114718), 2, 1, 0; (128738), 2, 1, 0; (194204), 2, 1, 0; *[14, 7, 0∗, 2015/08/16–2015/08/20]*

K46 Bamberg
K. Völkel, Kunigundendamm 148, 96050 Bamberg Germany [klaus.voelkel@bnv-bamberg.de]
0.10-m $f/6.8$ refractor + CCD
UCAC-4
(194), 8, 2, 1; (348400), 6, 2, 4; *[14, 2, 0∗, 2015/06/30–2015/07/10]*

K50 Sternwarte Feuerstein, Ebermannstadt
F. Fleischmann, Sternwarte 1, 91320 Ebermannstadt, Germany [ff@fonline.de]
Observers K. Völkel, J. Köberlein
0.20-m $f/5$ reflector + CCD
UCAC-4
2006 AW, 5, 1, 0; (2105), 3, 1, 0; *[8, 2, 0∗, 2015/08/14–2015/08/18]*

K55 Wallhausen
M. Grünewald, Zur Schoenen Aussicht 5, 55595 Wallhausen, Germany [markusgruenewald@icloud.com]
0.20-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
(324), 4, 2, 2; (554), 4, 2, 2; *[8, 2, 0∗, 2015/03/17–2015/03/19]*

K61 Rokycany Observatory
M. Mašek, Voldusska 721/II, 33701, Rokycany, Czech Republic [cassi@astronomie.cz]
Observer M. Adamovsky
0.51-m $f/6.8$ reflector + CCD
UCAC-4
2015 JY_1, 3, 1, 0; 2015 NK_{13}, 3, 1, 0; (60558), 2, 1, 0; *[8, 3, 0∗, 2015/07/01–2015/08/25]*

K62 Teplice Observatory
Z. Moravec, Teplice Observatory, Kopernikova 3062, CZ-415 01 Teplice, Czech Republic [moravec@hapteplice.cz]
0.43-m $f/4.6$ reflector + CCD
UCAC-4
2015 NA_{14}, 3, 1, 0; 2015 OH_{22}, 6, 1, 0; (7642), 4, 1, 0; (47048), 6, 1, 0; (101124), 4, 1, 0; (102998), 4, 1, 0; *[27, 6, 0∗, 2015/07/16–2015/07/21]*

K65 Cesena
V. Tinella, Via Galileo Ferraris 31, Cesena, 47522 Forli, Italy [vtinella@libero.it]
0.40-m $f/7$ Schmidt-Cassegrain + CCD
PPMXL, UCAC-4
2015 EZ, 2, 1, 0; 2015 MO_1, 2, 1, 0; *[4, 2, 0∗, 2015/08/25]*

K66 Osservatorio Astronomico di Anzio
M. Porcelli, Via Cicerone 7, 00042 Anzio, Italy [max@astronomica.it]

0.3-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-3
(304), 18, 2, 1; (491), 18, 2, 1; (780), 19, 2, 1; (1059), 18, 2, 1; (1466), 19, 2, 1; (4149), 18, 2, 1; *[110, 6, 0∗, 2015/07/08–2015/07/09]*

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
UCAC-4
(478), 2, 1, 0; (495), 2, 2, 1; (1548), 2, 2, 1; (4461), 2, 1, 0; *[8, 4, 0∗, 2015/07/14–2015/07/15]*

K90 Sopot Astronomical Observatory
V. Benishek, Partizanski put 14, 11450 Sopot, Serbia [vlaben@yahoo.com]
Observer V. Benishek
Measurers V. Benishek, B. Benishek
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
(1466), 3, 1, 0; (1831), 3, 1, 0; (2850), 3, 1, 0; (3982), 3, 1, 0; (5887), 4, 1, 0; (7144), 10, 3, 2; (8474), 28, 9, 48; (9773), 7, 2, 1; (11579), 3, 1, 0; (12269), 3, 1, 0; (17577), 3, 1, 0; (24870), 3, 1, 0; (69789), 12, 4, 9; (182817), 4, 1, 0; (348400), 8, 2, 1; *[97, 15, 0∗, 2015/05/17–2015/07/18]*

K91 Sutherland-LCOGT A
T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lcogt.net]
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2006 KT_{18}, 3, 1, 0; 2012 UZ_{13}, 4, 1, 0; 2015 HM_{10}, 7, 1, 0; 2015 MB_{60}, 4, 1, 0; 2015 NE_{13}, 3, 1, 0; 2015 NL_{13}, 3, 1, 0; 2015 PL, 4, 1, 0; 2015 PQ, 6, 1, 0; 2015 PS, 4, 1, 0; 2015 PJ_9, 4, 1, 0; 2015 PX_{227}, 3, 1, 0; 2015 QV_8, 5, 1, 0; 2015 QG_9, 6, 1, 0; 2015 QJ_9, 3, 1, 0; 2015 QQ_9, 3, 1, 0; (55275), 6, 1, 0; (74630), 6, 1, 0; *[74, 17, 0∗, 2015/07/03–2015/08/22]*

K92 Sutherland-LCOGT B
T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lcogt.net]
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2008 GV_{144}, 3, 1, 0; 2015 NJ_{13}, 3, 1, 0; 2015 NN_{13}, 3, 1, 0; 2015 NF_{24}, 3, 1, 0; 2015 OS, 6, 1, 0; 2015 OM_{79}, 6, 1, 0; 2015 PR, 2, 1, 0; 2015 QV_8, 3, 1, 0; (87047), 4, 1, 0; (94009), 3, 1, 0; (119638), 5, 1, 0; (124840), 3, 1, 0; (159169), 3, 1, 0; (216681), 3, 1, 0; (240958), 4, 1, 0; (254146), 4, 1, 0; (318163), 3, 1, 0; (352447), 5, 1, 0; *[66, 18, 0∗, 2015/07/14–2015/08/22]*

K93 Sutherland-LCOGT C
T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lcogt.net]
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2008 VD_{64}, 6, 1, 0; 2013 CJ_{184}, 4, 1, 0; 2015 HM_{10}, 12, 1, 0; 2015 NR_{13}, 4, 1, 0; 2015 NX_{13}, 3, 1, 0; 2015 PK, 17, 1, 0; 2015 PN, 5, 1, 0; (182924), 4, 1, 0; (280454), 4, 1, 0; (281484), 4, 1, 0; (393077), 4, 1, 0; *[67, 11, 0∗, 2015/06/30–2015/08/08]*

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 E. Gorbovskoy, V. Lipunov, N. Tiurina, P. Balanutsa, V. Kornilov, N. Shatskiy, V. Chazov, A. Kuznetsov, V. Yurkov, Y. Sergienko, D. Varda, E. Sinyakov, V. Krushinsky, I. Zalozhnih, A. Popov, K. Ivanov, S. Yazev, D. Buckley
Measurers N. Budnev, E. Konstantinov, O. Chuvalaev, V. Poleshchuk, O. Gress, A. Parkhomenko, A. Tlatov, D. Dormidontov, V. Senik, V. Shumkov, S. Shurpakov, A. Bourdanov, D. Buckley, S. Potter, A. Kniazev, M. Kotze, A. Gabovich
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0
2008 VD_{64}, 5, 1, 0; 2015 KA_{23}, 9, 2, 1; 2015 PX_{291} ∗, 6, 2, 2; (355), 3, 1, 0; (604), 3, 1, 0; (607), 3, 1, 0; (721), 3, 1, 0; (1024), 6, 1, 0; (1100), 3, 1, 0; (1553), 3, 1, 0; (3051), 3, 1, 0; (3796), 3, 1, 0; (5042), 7, 1, 0; (5274), 3, 1, 0; (6734), 3, 1, 0; (15198), 3, 1, 0; (17646), 7, 1, 0; (34020), 3, 1, 0; (47225), 3, 1, 0; (47767), 3, 1, 0; (48866), 3, 1, 0; (54684), 3, 1, 0; (71096), 3, 1, 0; (118968), 7, 2, 2; (157106), 3, 1, 0; (164088), 3, 1, 0; (242643), 3, 1, 0; *[107, 27, 1∗, 2015/06/30–2015/08/25]*

L04 ROASTERR-1 Observatory, Cluj-Napoca
L. Hudin, Oasului 344C, Cluj Napoca, 400645 Cluj, Romania [lucian.hudin@gmail.com]
Observers L. Hudin, V. Inceu
0.3-m $f/5.0$ reflector + CCD
PPMXL
2010 EW_{122}, 2, 1, 0; 2010 PR_{66}, 3, 1, 0; 2012 OD_1, 3, 1, 0; 2012 TM_{139}, 2, 1, 0; 2015 JY_1, 4, 1, 0; 2015 MP_1, 2, 1, 0; 2015 NF, 13, 3, 3; 2015 NZ_{13}, 2, 1, 0; 2015 NA_{14}, 9, 2, 3; 2015 OH, 3, 1, 0; 2015 OS, 2, 1, 0; 2015 OM_{21}, 2, 1, 0; 2015 OX_{77}, 3, 1, 0; 2015 PT, 3, 1, 0; 2015 PK_9, 7, 2, 2; 2015 PU_{228}, 3, 1, 0; 2015 PV_{228}, 3, 1, 0; (4020), 3, 1, 0; (28215), 3, 1, 0; (40804), 3, 1, 0; (46142), 2, 1, 0; (52229), 3, 1, 0; (60129), 2, 1, 0; (77367), 2, 1, 0; (85989), 2, 1, 0; (104067), 4, 1, 0; (119957), 3, 1, 0; (242191), 3, 1, 0; (244913), 3, 1, 0; (247886), 3, 1, 0; (385186), 3, 1, 0; (427282), 3, 1, 0; (436724), 12, 3, 2; *[120, 33, 0∗, 2014/11/24–2015/08/16]*

L51 MARGO, Nauchnij
G. Borisov, 40g-1 Nauchnij, Crimea 98409, Ukraine [gborisov3@yandex.ru]
Observer G. Borisov
Measurers G. Borisov, D. Demianov
0.3-m $f/1.5$ astrograph + CCD, 0.5-m $f/2.0$ astrograph + CCD
UCAC-4
2015 OH ∗, 3, 1, 0; *[3, 1, 1∗, 2015/07/16]*

L96 ISON-Byurakan Observatory
E. Romas, 344103, st.Akmolinskaya, h.39, Rostov-on-Don, Russia [romasastro@gmail.com]
Observers V. Nevski, K. Polyakov
0.4-m $f/2.3$ reflector + CCD
UCAC-4
2001 RY_{145}, 4, 1, 0; 2002 RJ_{67}, 4, 1, 0; 2002 TL_{99}, 4, 1, 0; 2005 SG_{107}, 4, 1, 0; 2006 PW_{40}, 4, 1, 0; 2006 QB_{142}, 3, 1, 0; 2011 SJ_{232}, 4, 1, 0; 2012 BU_{11}, 3, 1, 0; 2012 SH_{50}, 4, 1, 0; (371), 8, 1, 0; (648), 4, 1, 0; (764), 4, 1, 0; (803), 4, 1, 0; (896), 4, 1, 0; (997), 4, 1, 0; (1052), 4, 1, 0; (1455), 4, 1, 0; (1611), 4, 1, 0; (1695), 4, 1, 0; (1992), 4, 1, 0; (2383), 4, 1, 0; (2478), 4, 1, 0; (2679), 8, 1, 0; (2685), 4, 1, 0; (2871), 4, 1, 0; (3134), 4, 1, 0; (3237), 4, 1, 0; (3312), 4, 1, 0; (3425), 4, 1, 0; (3569), 4, 1, 0; (3937), 4, 1, 0; (4071), 4, 1, 0; (4167), 4, 1, 0; (4290), 4, 1, 0; (4457), 4, 1, 0; (4561), 4, 1, 0; (5199), 4, 1, 0; (5357), 8, 1, 0; (5768), 4, 1, 0; (6018), 4, 1, 0; (6073), 4, 1, 0; (6197), 4, 1, 0; (6822), 4, 1, 0; (6833), 4, 1, 0; (7015), 4, 1, 0; (7222), 4, 1, 0; (7597), 4, 1, 0; (7844), 4, 1, 0; (8019), 4, 1, 0; (8145), 4, 1, 0; (8224), 8, 1, 0; (8238), 4, 1, 0; (8810), 4, 1, 0; (9079), 4, 1, 0; (9132), 4, 1, 0; (9250), 4, 1, 0; (9384), 4, 1, 0; (9659), 4, 1, 0; (9660), 4, 1, 0; (9686), 4, 1, 0; (9914), 4, 1, 0; (9941), 4, 1, 0; (10222), 4, 1, 0; (10250), 4, 1, 0; (10399), 4, 1, 0; (10448), 4, 1, 0; (10936), 4, 1, 0; (11961), 4, 1, 0; (12252), 4, 1, 0; (12506), 4, 1, 0; (12709), 4, 1, 0; (12865), 4, 1, 0; (12887), 4, 1, 0; (13354), 4, 1, 0; (13371), 4, 1, 0; (13727), 4, 1, 0; (14216), 4, 1, 0; (14506), 16, 1, 0; (14626), 4, 1, 0; (14711), 4, 1, 0; (15013), 4, 1, 0; (15434), 4, 1, 0; (15574), 4, 1, 0; (15720), 4, 1, 0; (15797), 4, 1, 0; (15927), 4, 1, 0; (16019), 4, 1, 0; (16081), 8, 1, 0; (16413), 4, 1, 0; (16484), 4, 1, 0; (17175), 4, 1, 0; (18033), 4, 1, 0; (18593), 4, 1, 0; (18674), 8, 2, 1; (18865), 4, 1, 0; (18870), 4, 1, 0; (19027), 4, 1, 0; (19722), 4, 1, 0; (19762), 4, 1, 0; (19903), 4, 1, 0; (20554), 4, 1, 0; (20683), 7, 1, 0; (21422), 4, 1, 0; (21866), 3, 1, 0; (22083), 4, 1, 0; (22085), 4, 1, 0; (22181), 2, 1,

0; (22301), 4, 1, 0; (22362), 2, 1, 0; (22401), 4, 1, 0; (22512), 4, 1, 0; (22514), 8, 1, 0; (22713), 3, 1, 0; (22946), 4, 1, 0; (22977), 4, 1, 0; (23303), 4, 1, 0; (23430), 4, 1, 0; (23651), 4, 1, 0; (24398), 16, 1, 0; (24490), 8, 1, 0; (24575), 4, 1, 0; (25058), 4, 1, 0; (25099), 8, 1, 0; (25108), 12, 1, 0; (25129), 4, 1, 0; (25525), 4, 1, 0; (26097), 4, 1, 0; (26293), 4, 1, 0; (26651), 4, 1, 0; (27268), 4, 1, 0; (27576), 4, 1, 0; (27617), 4, 1, 0; (27914), 4, 1, 0; (27969), 4, 1, 0; (28140), 8, 1, 0; (28163), 4, 1, 0; (28190), 4, 1, 0; (28301), 4, 1, 0; (28462), 4, 1, 0; (28633), 4, 1, 0; (29051), 4, 1, 0; (29620), 4, 1, 0; (29959), 4, 1, 0; (30453), 4, 1, 0; (30536), 4, 1, 0; (30611), 4, 1, 0; (30713), 4, 1, 0; (31561), 4, 1, 0; (31813), 4, 1, 0; (31992), 4, 1, 0; (32049), 4, 1, 0; (32156), 4, 1, 0; (32179), 3, 1, 0; (32232), 4, 1, 0; (32272), 4, 1, 0; (32556), 4, 1, 0; (32732), 4, 1, 0; (33065), 4, 1, 0; (33266), 4, 1, 0; (33463), 4, 1, 0; (33574), 4, 1, 0; (34560), 4, 1, 0; (34571), 8, 2, 1; (35037), 4, 1, 0; (35091), 4, 1, 0; (35273), 2, 1, 0; (35297), 4, 1, 0; (35478), 3, 1, 0; (35654), 4, 1, 0; (35660), 8, 1, 0; (35908), 4, 1, 0; (35964), 4, 1, 0; (36010), 4, 1, 0; (36078), 4, 1, 0; (36098), 4, 1, 0; (36100), 4, 1, 0; (36193), 4, 1, 0; (36277), 4, 1, 0; (36796), 3, 1, 0; (36896), 4, 1, 0; (36900), 4, 1, 0; (37001), 3, 1, 0; (37120), 4, 1, 0; (37151), 4, 1, 0; (37781), 4, 1, 0; (38035), 4, 1, 0; (38437), 4, 1, 0; (38487), 4, 1, 0; (38503), 4, 1, 0; (38688), 4, 1, 0; (38762), 4, 1, 0; (38875), 8, 1, 0; (38910), 4, 1, 0; (38976), 4, 1, 0; (39017), 4, 1, 0; (39125), 4, 1, 0; (40025), 8, 1, 0; (40066), 4, 1, 0; (40076), 4, 1, 0; (40146), 4, 1, 0; (40169), 4, 1, 0; (40184), 8, 1, 0; (40521), 4, 1, 0; (40638), 4, 1, 0; (40674), 8, 1, 0; (40679), 4, 1, 0; (41703), 4, 1, 0; (42224), 3, 1, 0; (42253), 4, 1, 0; (42255), 4, 1, 0; (43030), 4, 1, 0; (43107), 4, 1, 0; (43225), 4, 1, 0; (43587), 4, 1, 0; (43625), 3, 1, 0; (44114), 4, 1, 0; (44176), 4, 1, 0; (44268), 4, 1, 0; (44505), 4, 1, 0; (44949), 4, 1, 0; (45109), 4, 1, 0; (45124), 8, 1, 0; (45283), 4, 1, 0; (45467), 4, 1, 0; (45773), 4, 1, 0; (45901), 4, 1, 0; (45935), 4, 1, 0; (45982), 4, 1, 0; (46861), 4, 1, 0; (46876), 4, 1, 0; (46985), 4, 1, 0; (47098), 4, 1, 0; (47147), 4, 1, 0; (47260), 8, 1, 0; (47381), 4, 1, 0; (47400), 4, 1, 0; (47586), 4, 1, 0; (48062), 4, 1, 0; (48627), 4, 1, 0; (48692), 4, 1, 0; (48697), 3, 1, 0; (49671), 4, 1, 0; (50021), 3, 1, 0; (50102), 4, 1, 0; (50110), 4, 1, 0; (50191), 4, 1, 0; (50246), 4, 1, 0; (50391), 4, 1, 0; (50881), 4, 1, 0; (50938), 4, 1, 0; (51271), 3, 1, 0; (52527), 4, 1, 0; (52671), 4, 1, 0; (52807), 15, 1, 0; (52950), 4, 1, 0; (52971), 4, 1, 0; (53275), 4, 1, 0; (53813), 4, 1, 0; (53847), 3, 1, 0; (54262), 4, 1, 0; (54802), 4, 1, 0; (54943), 4, 1, 0; (55872), 4, 1, 0; (56486), 4, 1, 0; (56990), 4, 1, 0; (57135), 4, 1, 0; (57379), 3, 1, 0; (57384), 4, 1, 0; (58211), 4, 1, 0; (58966), 4, 1, 0; (59867), 4, 1, 0; (59870), 4, 1, 0; (59887), 4, 1, 0; (59942), 4, 1, 0; (59980), 4, 1, 0; (60016), 4, 1, 0; (60831), 4, 1, 0; (61098), 4, 1, 0; (61272), 4, 1, 0; (61458), 4, 1, 0; (62348), 4, 1, 0; (62360), 8, 1, 0; (62535), 4, 1, 0; (62566), 4, 1, 0; (62589), 4, 1, 0; (62869), 4, 1, 0; (62911), 4, 1, 0; (63094), 3, 1, 0; (63333), 4, 1, 0; (64181), 4, 1, 0; (64327), 4, 1, 0; (65120), 4, 1, 0; (65246), 8, 1, 0; (65370), 4, 1, 0; (65510), 8, 1, 0; (65699), 4, 1, 0; (65874), 4, 1, 0; (66640), 4, 1, 0; (66819), 4, 1, 0; (67241), 4, 1, 0; (67486), 4, 1, 0; (67586), 4, 1, 0; (68339), 4, 1, 0; (68482), 4, 1, 0; (68883), 4, 1, 0; (68962), 4, 1, 0; (69018), 4, 1, 0; (70417), 4, 1, 0; (70420), 3, 1, 0; (70629), 4, 1, 0; (70723), 4, 1, 0; (71294), 4, 1, 0; (73307), 4, 1, 0; (73518), 3, 1, 0; (74305), 4, 1, 0; (74402), 4, 1, 0; (74432), 4, 1, 0; (77304), 4, 1, 0; (77517), 4, 1, 0; (78158), 4, 1, 0; (78229), 4, 1, 0; (79036), 4, 1, 0; (80137), 4, 1, 0; (81354), 4, 1, 0; (81363), 4, 1, 0; (81380), 4, 1, 0; (81764), 8, 2, 1; (81901), 4, 1, 0; (82123), 4, 1, 0; (82288), 4, 1, 0; (82327), 4, 1, 0; (83057), 4, 1, 0; (84021), 4, 1, 0; (84417), 4, 1, 0; (84498), 4, 1, 0; (85567), 4, 1, 0; (85660), 4, 1, 0; (86060), 4, 1, 0; (86109), 4, 1, 0; (86225), 4, 1, 0; (86288), 4, 1, 0; (86401), 4, 1, 0; (86532), 4, 1, 0; (86615), 3, 1, 0; (86684), 4, 1, 0; (86834), 4, 1, 0; (86910), 4, 1, 0; (86990), 4, 1, 0; (87014), 4, 1, 0; (87020), 8, 1, 0; (87183), 4, 1, 0; (88347), 4, 1, 0; (88403), 4, 1, 0; (90958), 4, 1, 0; (91638), 4, 1, 0; (91673), 4, 1, 0; (91885), 3, 1, 0; (91888), 4, 1, 0; (92179), 3, 1, 0; (92532), 3, 1, 0; (92723), 4, 1, 0; (92800), 4, 1, 0; (92837), 4, 1, 0; (93610), 4, 1, 0; (95436), 16, 1, 0; (95734), 4, 1, 0; (95975), 4, 1, 0; (96059), 4, 1, 0; (96517), 4, 1, 0; (97256), 4, 1, 0; (98074), 4, 1, 0; (98125), 4, 1, 0; (98729), 4, 1, 0; (99043), 4, 1, 0; (99266), 4, 1, 0; (101131), 4, 1, 0; (102208), 3, 1, 0; (102451), 4, 1, 0; (102482), 3, 1, 0; (102762), 4, 1, 0; (103759), 4, 1, 0; (104246), 4, 1, 0; (105817), 4, 1, 0; (106283), 3, 1, 0; (106408), 4, 1, 0; (108458), 4, 1, 0; (109205), 8, 1, 0; (110066), 4, 1, 0; (112548), 4, 1, 0; (112599), 4, 1, 0; (112602), 4, 1, 0; (113208), 3, 1, 0; (114219), 3, 1, 0; (116120), 4, 1, 0; (118315), 4, 1, 0; (118540), 4, 1, 0; (118964), 4, 1, 0; (119281), 4, 1, 0; (120878), 8, 2, 1; (121282), 4, 1, 0; (122256), 3, 1, 0; (122422), 4, 1, 0; (124317), 4, 1, 0; (124658), 4, 1, 0; (124877), 4, 1, 0; (126345), 4, 1, 0; (128603), 4, 1, 0; (128775), 2, 1, 0; (128789), 4, 1, 0; (129338), 4, 1, 0; (130028), 4, 1, 0; (132637), 4, 1, 0; (133904), 3, 1, 0; (134995), 3, 1, 0; (135039), 4, 1, 0; (135063), 4, 1, 0; (135996), 3, 1, 0; (138343), 4, 1, 0; (138599), 8, 1, 0; (139596), 4, 1, 0; (139788), 4, 1, 0; (139829), 4, 1, 0; (140132), 4, 1, 0; (142534), 4, 1, 0; (142572), 4, 1, 0; (143718), 4, 1, 0; (144058), 4, 1, 0; (144546), 4, 1, 0; (145007), 4, 1, 0; (145083), 4, 1, 0; (145566), 4, 1, 0; (145680), 4, 1, 0; (145783), 4, 1, 0; (145964), 3, 1, 0; (146150), 4, 1, 0; (149311), 4, 1, 0; (149328), 4, 1, 0; (149581), 4, 1, 0; (149765), 4, 1, 0; 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Observer I. Reva
Measurer L. Elenin
1.0-m $f/6.7$ reflector + CCD
USNO-B1.0

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0.3-m astrograph + CCD
UCAC-4

2010 OC_{24}, 5, 1, 0; 2011 SZ_{20}, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 QN_3, 9, 1, 0; 2015 QZ_8, 11, 2, 1; (151645), 3, 1, 0; (187827), 9, 1, 0; (255094), 3, 1, 0; (279962), 3, 1, 0; (402134), 3, 1, 0; *[52, 10, 0∗, 2015/07/23–2015/08/26]*

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0.4-m $f/2.3$ reflector + CCD
UCAC-4

2015 OH_{22}, 4, 1, 0; (48640), 3, 1, 0; *[7, 2, 0∗, 2014/03/06–2015/07/22]*

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0.4-m $f/2.4$ reflector + CCD
USNO-B1.0, UCAC-4, UCAC-3

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Q62 iTelescope Observatory, Siding Spring

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Measurers S. M. Tilley, B. C. Dawson, H. Sato, M. Suzuki, C. Perello, N. Falla, G. V. Williams, C. L. Marsden, I. Robbins, P. S. Lau, M. Urbanik, M. Mattiazzo, N. Paul, T. Prystavski, P. B. Lake, B. Haeusler, M. Miller, E. Guido, N. Howes, A. J. Evans, R. Ligustri, C. Jacques

0.70-m f/6.6 astrograph + CCD, 0.51-m f/6.8 astrograph + CCD + focal reducer, 0.43-m f/6.8 astrograph + CCD, 0.09-m f/4.6 refractor + CCD

UCAC-4, PPMXL, NOMAD, UCAC-3, USNO-A2.0, CMC

{10} 2005 UY_{348}, 4, 1, 0; 2007 TV_{180}, 9, 1, 0; 2008 DR_4, 9, 1, 0; 2008 GV_2, 5, 1, 0; 2011 SG_{182}, 9, 1, 0; 2011 SH_{215}, 9, 1, 0; 2013 BG_{29}, 2, 1, 0; 2014 JR_{32}, 3, 1, 0; 2015 MZ_{45}, 3, 1, 0; 2015 MX_{48}, 12, 2, 7; 2015 OR_{51}, 9, 1, 0; 2015 OE_{52}, 22, 3, 7; (30349), 9, 1, 0; (130985), 9, 1, 0; (215325), 4, 1, 0; (239945), 4, 1, 0; (259373), 3, 1, 0; (349049), 2, 1, 0; (394160), 4, 1, 0; *[131, 19, 0*, 2015/08/08–2015/08/15]*

{17} 2015 MJ_{49}, 7, 2, 1; 2015 MP_{129}, 8, 2, 3; 2015 ON_{25} *, 32, 8, 30; 2015 OQ_{51}, 8, 2, 3; 2015 PX_1, 7, 2, 33; 2015 PE_9, 12, 2, 1; 2015 PQ_{294} *, 10, 3, 2; 2015 PR_{294} *, 8, 2, 3; 2015 PS_{294} *, 8, 2, 4; 2015 QU_3 *, 7, 2, 1; (1024), 4, 1, 0; (2030), 4, 1, 0; (2218), 4, 1, 0; (2899), 4, 1, 0; (2960), 3, 1, 0; (3021), 8, 2, 3; (3576), 4, 1, 0; (3967), 3, 1, 0; (4008), 4, 1, 0; (4176), 4, 1, 0; (4893), 4, 1, 0; (5312), 4, 1, 0; (6378), 4, 1, 0; (7188), 3, 1, 0; (7205), 4, 1, 0; (7791), 4, 1, 0; (8020), 12, 3, 4; (9309), 4, 1, 0; (9373), 6, 2, 2; (10361), 15, 3, 2; (10414), 4, 1, 0; (10433), 4, 1, 0; (10707), 4, 1, 0; (11780), 4, 1, 0; (11786), 4, 1, 0; (12195), 4, 1, 0; (12344), 4, 1, 0; (12439), 8, 2, 1; (12856), 4, 1, 0; (13443), 4, 1, 0; (13622), 4, 1, 0; (13845), 4, 1, 0; (14512), 4, 1, 0; (14753), 4, 1, 0; (15519), 8, 2, 2; (15758), 4, 1, 0; (15928), 3, 1, 0; (15934), 4, 1, 0; (16804), 4, 1, 0; (17185), 4, 1, 0; (17433), 8, 2, 3; (19628), 8, 2, 2; (19670), 3, 1, 0; 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(87979), 11, 3, 3; (88248), 3, 1, 0; (88714), 4, 1, 0; (88905), 4, 1, 0; (89097), 4, 1, 0; (89362), 4, 1, 0; (89525), 8, 2, 3; (89672), 8, 2, 3; (89917), 8, 2, 1; (89925), 4, 1, 0; (90329), 4, 1, 0; (90331), 4, 1, 0; (90755), 4, 1, 0; (91178), 4, 1, 0; (91849), 12, 3, 8; (91869), 4, 1, 0; (92111), 4, 1, 0; (92895), 4, 1, 0; (93332), 4, 1, 0; (93709), 4, 1, 0; (94195), 4, 1, 0; (94552), 16, 2, 1; (94742), 3, 1, 0; (95360), 4, 1, 0; (97013), 4, 1, 0; (97200), 12, 3, 4; (97708), 4, 1, 0; (98593), 4, 1, 0; (98928), 4, 1, 0; (99806), 4, 1, 0; (101661), 4, 1, 0; (102356), 3, 1, 0; (102524), 3, 1, 0; (106299), 3, 1, 0; (106307), 4, 1, 0; (106755), 4, 1, 0; (106812), 4, 1, 0; (107138), 7, 2, 5; (108087), 4, 1, 0; (108268), 4, 1, 0; (111067), 4, 1, 0; (111134), 8, 2, 1; (113901), 4, 1, 0; (113907), 4, 1, 0; (116430), 4, 1, 0; (116545), 4, 1, 0; (116817), 6, 2, 2; (118267), 4, 1, 0; (118476), 4, 1, 0; (118598), 4, 1, 0; (119441), 4, 1, 0; (122026), 4, 1, 0; (125288), 3, 1, 0; (125476), 4, 1, 0; (125720), 4, 1, 0; (125761), 3, 1, 0; (128674), 4, 1, 0; (130137), 13, 2, 3; (130307), 4, 1, 0; (133867), 4, 1, 0; (134776), 3, 1, 0; (142148), 4, 1, 0; (142483), 4, 1, 0; (142940), 16, 4, 3; (146247), 4, 1, 0; (147142), 3, 1, 0; (147517), 4, 1, 0; (148103), 4, 1, 0; (149043), 4, 1, 0; (152571), 12, 2, 1; (152970), 3, 1, 0; (153341), 4, 1, 0; (155290), 4, 1, 0; (155680), 3, 1, 0; (156784), 4, 1, 0; (157769), 4, 1, 0; (162336), 4, 1, 0; (163828), 8, 2, 6; (165594), 11, 3, 2; (171514), 4, 1, 0; (172346), 3, 1, 0; (172562), 8, 2, 3; (172898), 8, 2, 1; (173762), 4, 1, 0; (173820), 4, 1, 0; (175767), 4, 1, 0; (179077), 4, 1, 0; (179568), 4, 1, 0; (179632), 4, 1, 0; (181266), 4, 1, 0; (181277), 4, 1, 0; (181699), 4, 1, 0; (182687), 3, 1, 0; (183506), 4, 1, 0; (184260), 3, 1, 0; (184662), 3, 1, 0; (185116), 8, 2, 3; (185759), 4, 1, 0; (187433), 4, 1, 0; (189987), 4, 1, 0; (190732), 3, 1, 0; (190783), 4, 1, 0; (191955), 4, 1, 0; (193998), 4, 1, 0; (194592), 3, 1, 0; (195168), 4, 1, 0; (198259), 7, 2, 8; (200761), 4, 1, 0; (201998), 4, 1, 0; (203084), 15, 4, 4; (204184), 4, 1, 0; (205386), 4, 1, 0; (206087), 4, 1, 0; (207276), 4, 1, 0; (208061), 4, 1, 0; (208953), 11, 3, 3; (210204), 4, 1, 0; (210587), 4, 1, 0; (211409), 4, 1, 0; (213236), 3, 1, 0; (215685), 8, 2, 1; (217322), 4, 1, 0; (234919), 4, 1, 0; (235312), 3, 1, 0; (235339), 4, 1, 0; (237990), 4, 1, 0; (238151), 15, 3, 2; (238527), 4, 1, 0; (239178), 3, 1, 0; (241361), 10, 3, 7; (243251), 4, 1, 0; (243874), 3, 1, 0; (244842), 12, 3, 4; (248096), 4, 1, 0; (248406), 4, 1, 0; (248424), 4, 1, 0; (250475), 4, 1, 0; (250811), 3, 1, 0; (252773), 4, 1, 0; (255142), 3, 1, 0; (255301), 7, 2, 2; (263523), 8, 2, 3; (265365), 4, 1, 0; (273576), 4, 1, 0; (276992), 3, 1, 0; (282154), 7, 2, 3; (287116), 3, 1, 0; (287341), 3, 1, 0; (287611), 8, 2, 6; (288151), 4, 1, 0; (290248), 4, 1, 0; (292981), 4, 1, 0; (299828), 16, 3, 2; (304171), 3, 1, 0; (310303), 7, 2, 2; (310555), 4, 1, 0; (310820), 4, 1, 0; (311548), 2, 1, 0; (312282), 4, 1, 0; (314361), 19, 4, 4; (332101), 19, 5, 4; (338224), 4, 1, 0; (339021), 3, 1, 0; (339719), 4, 1, 0; (341864), 4, 1, 0; (343225), 4, 1, 0; (345124), 4, 1, 0; (346394), 12, 2, 1; (347623), 4, 1, 0; (348783), 3, 1, 0; (350553), 4, 1, 0; (354420), 4, 1, 0; (355376), 3, 1, 0; (355667), 4, 1, 0; (357699), 4, 1, 0; (358239), 3, 1, 0; (358796), 4, 1, 0; (387945), 4, 1, 0; (388905), 3, 1, 0; (390256), 4, 1, 0; (390590), 4, 1, 0; (393874), 3, 1, 0; (395530), 4, 1, 0; (397015), 4, 1, 0; (398594), 8, 2, 3; (404716), 4, 1, 0; (437960), 3, 1, 0; *[1773, 352, 5*, 2015/07/20–2015/08/22]*

{1} 2015 FM_{204}, 3, 1, 0; 2015 KZ_{120}, 3, 1, 0; 2015 MM_{11}, 3, 1, 0; (27168), 2, 1, 0; (37130), 2, 1, 0; (60558), 2, 1, 0; (65950), 3, 1, 0; (193534), 3, 1, 0; (208346), 2, 1, 0; *[23, 9, 0*, 2015/03/16–2015/06/20]*

{2} 2015 PK_9, 4, 1, 0; *[4, 1, 0*, 2015/08/11]*

{5} 2005 TK_3, 3, 1, 0; *[3, 1, 0*, 2015/08/18]*

{8} 2007 EK_{72}, 4, 1, 0; 2014 LW_3, 3, 1, 0; 2015 PA_{295}, 7, 2, 2; 2015 PD_{295}, 3, 1, 0; (434391), 3, 1, 0; (436917), 3, 1, 0; *[23, 6, 0*, 2015/07/08–2015/08/20]*

{9} (134340), 5, 2, 1; *[5, 1, 0*, 2015/07/08–2015/07/09]*

{36} (604), 4, 1, 0; (27080), 4, 1, 0; *[8, 2, 0*, 2015/08/18]*

{43} 2015 PC_{62} *, 3, 1, 0; (81162), 3, 1, 0; (85429), 3, 1, 0; (128134), 3, 1, 0; (200836), 6, 1, 0; (275339), 3, 1, 0; *[21, 6, 1*, 2015/08/09]*

{45} 2011 VT_6, 2, 1, 0; (214643), 3, 1, 0; *[5, 2, 0*, 2015/07/08–2015/07/09]*

{46} (50000), 2, 1, 0; *[2, 1, 0*, 2015/06/28]*

{47} 2008 VD_{64}, 4, 1, 0; (179594), 4, 1, 0; *[8, 2, 0*, 2015/08/09]*

{26} 2005 VT_{113}, 3, 1, 0; 2010 RB_{124}, 9, 4, 7; 2011 SF_{112}, 2, 1, 0; 2013 BF_{56}, 3, 1, 0; 2013 CP_{182}, 6, 2, 4; 2015 MS_{108}, 5, 2, 2; 2015 MK_{112}, 7, 3, 6; 2015 MC_{117}, 3, 1, 0; 2015 PZ_{291} *, 6, 2, 2; 2015 PF_{307} *, 13, 3, 5; (4050), 3, 1, 0; (18920), 3, 1, 0; (25802), 2, 1, 0; (36110), 3, 1, 0; (52724), 7, 2, 12; (52921), 3, 1, 0; (60392), 3, 1, 0; (60944), 3, 1, 0; (90570), 7, 2, 4; (91826), 3, 1, 0; (98725), 2, 1, 0; (102063), 5, 1, 0; (104045), 3, 1, 0; (116512), 7, 2, 12; (116747), 2, 1, 0; (118350), 2, 1, 0; (133283), 2, 1, 0; (140385), 2, 1, 0; (149922), 3, 1, 0; (156236), 2, 1, 0; (160617), 2, 1, 0; (173804), 5, 2, 7; (202117), 5, 1, 0; (204929), 2, 1, 0; (206380), 2, 1, 0; (206502), 7, 2, 1; (225653), 3, 1, 0; (234541), 2, 1, 0; (254254), 3, 1, 0; (281915), 5, 2, 2; (298637), 7, 3, 2; (299894), 4, 1, 0; (304290), 3, 1, 0; (310251), 2, 1, 0; (382864), 2, 1, 0; (395941), 4, 1, 0; (438228), 5, 1, 0; *[187, 47, 2*, 2015/06/27–2015/08/22]*

{27} 2015 OH_{22}, 2, 1, 0; 2015 OS_{78}, 4, 2, 3; *[6, 2, 0*, 2015/08/10–2015/08/15]*

{30} 2015 PK_9, 4, 1, 0; (32259), 5, 1, 0; (164202), 6, 1, 0; (436724), 9, 2, 8; *[24, 4, 0*, 2015/07/01–2015/08/10]*

Q63 Siding Spring-LCOGT A

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lcogt.net]

1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4

2015 ON_{21}, 7, 1, 0; 2015 OC_{22}, 3, 1, 0; (200369), 3, 1, 0; (439559), 3, 1, 0; *[16, 4, 0*, 2015/07/20]*

Q64 Siding Spring-LCOGT B

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lcogt.net]

1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4

2005 UD_{129}, 3, 1, 0; 2015 OP, 3, 1, 0; 2015 OM_{21}, 5, 1, 0; (101124), 3, 1, 0; (124739), 3, 1, 0; (436724), 8, 1, 0; (437962), 3, 1, 0; *[28, 7, 0*, 2015/07/09–2015/07/20]*

Q65 Warrumbungle Observatory

P. Starr, 841 Timor Rd, Coonabarabran NSW 2357, Australia
[starr_peter@hotmail.com]

Observers M. Langbroek, P. Starr, R. Dymock, C. W. Hergenrother
0.51-m $f/6.8$ reflector + CCD
UCAC-4

(206378), 11, 1, 0; *[11, 1, 0*, 2015/08/18]*

Q68 Blue Mountains Observatory, Leura
J. Oey, 94 Rawson pde, Leura NSW 2780, Australia [julianoey@gmail.com]
Observers J. Oey, P. Camilleri, H. Williams
0.34-m $f/5.9$ Schmidt-Cassegrain + CCD, 0.61-m $f/6.8$ reflector + CCD, 0.30-m $f/5.4$ reflector + CCD
UCAC-4, NOMAD, USNO-SA2.0
(155), 3, 1, 0; (180), 2, 1, 0; (495), 7, 1, 0; (958), 2, 1, 0; (986), 2, 1, 0; (1264), 2, 1, 0; (1283), 2, 1, 0; (1563), 8, 2, 6; (1566), 3, 1, 0; (1685), 24, 5, 5; (2166), 9, 1, 0; (2200), 3, 1, 0; (2400), 2, 1, 0; (2671), 6, 3, 11; (3193), 2, 1, 0; (3982), 14, 4, 15; (4000), 2, 1, 0; (4800), 4, 2, 1; (8122), 2, 1, 0; (9310), 2, 1, 0; (10916), 8, 4, 4; (11163), 3, 1, 0; (11579), 25, 7, 10; (15411), 10, 1, 0; (16126), 22, 4, 12; (17633), 4, 2, 1; (19289), 14, 3, 8; (21255), 4, 2, 1; (21900), 2, 1, 0; (24352), 2, 1, 0; (26042), 2, 1, 0; (29290), 2, 1, 0; (31629), 2, 1, 0; (36551), 3, 1, 0; (39977), 2, 1, 0; (41672), 3, 1, 0; (46321), 1, 1, 0; (49953), 48, 11, 26; (50113), 2, 1, 0; (50583), 6, 3, 2; (53817), 2, 1, 0; (58163), 2, 1, 0; (60558), 10, 5, 13; (63896), 2, 1, 0; (75768), 2, 1, 0; (76255), 2, 1, 0; (77368), 2, 1, 0; (89908), 4, 2, 8; (126923), 4, 2, 6; (131393), 2, 1, 0; (142279), 2, 1, 0; (146260), 2, 1, 0; (148377), 2, 1, 0; (194541), 2, 1, 0; (248227), 6, 1, 0; (270800), 2, 1, 0; (306191), 6, 3, 3; (308800), 2, 1, 0; (314515), 2, 1, 0; (348400), 76, 10, 23; (349666), 2, 1, 0; (385186), 31, 2, 2; *[433, 62, 0∗, 2015/06/20–2015/08/20]*

T08 ATLAS-MLO, Mauna Loa
J. Tonry, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Dr., Honolulu, HI 86822, U.S.A. [jt@ifa.hawaii.edu]
Observers L. Denneau, A. Sherstyuk, J. Tonry
Measurers L. Denneau, A. Sherstyuk, J. Tonry, A. Heinze
0.18-m $f/2.8$ astrograph + CCD
2MASS
(7497), 3, 1, 0; (10484), 2, 1, 0; (13665), 2, 1, 0; *[7, 3, 0∗, 2014/08/22]*

U57 Black Mountain Observatory, Los Altos
N. Dunckel, 12971 Cortez Ln., Los Altos, CA 94022, U.S.A. [ndunckel@earthlink.net]
0.5-m $f/4.5$ Corrected Dall-Kirkham + CCD
UCAC-4
(5192), 4, 2, 2; (11677), 4, 2, 2; (16494), 4, 2, 2; (27667), 4, 2, 2; *[16, 4, 0∗, 2015/06/16–2015/06/18]*

U69 iTelescope SRO Observatory, Auberry
P. S. Lau, Flat 5B, Block B, 5 Homantin Hill Road, Kowloon, Hong Kong [mail@betty-lau.com] (6)
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)
M. Urbanik, no details supplied (13)
J. Jahn, no details supplied [itelescope@jostjahn.de] (14)
B. Haeusler, no details supplied (17)
D. Brandt, no details supplied [brandtdr@earthlink.net] (18)
T. Teerasak, incomplete details supplied [teerasakt@hotmail.com] (19)
Observers S. M. Tilley, H. Sato, B. Haeusler, D. Brandt, M. Suzuki, T. Teerasak, M. Urbanik, P. S. Lau, J. Jahn, M. Mattiazzo
0.61-m $f/6.5$ astrograph + CCD
UCAC-4, NOMAD, USNO-A2.0, UCAC-3, CMC
{11} 2015 OH, 2, 1, 0; *[2, 1, 0∗, 2015/07/18]*

{13} (60558), 5, 1, 0; *[5, 1, 0∗, 2015/07/24]*

{14} 2011 UR_{279}, 2, 1, 0; (102934), 3, 1, 0; *[5, 2, 0∗, 2015/07/27]*

{17} 2015 OA_{26}, 11, 3, 2; 2015 PT, 6, 1, 0; 2015 PC_{62}, 9, 2, 1; (16630), 3, 1, 0; (21762), 3, 1, 0; (60632), 3, 1, 0; (67192), 3, 1, 0; (78694), 3, 1, 0; (96123), 6, 2, 1; (128134), 3, 1, 0; (189633), 3, 1, 0; (298013), 3, 1, 0; *[56, 12, 0∗, 2015/07/24–2015/08/11]*

{18} (7350), 6, 2, 24; (23043), 3, 1, 0; (68246), 3, 1, 0; (91957), 3, 1, 0; (120997), 3, 1, 0; (193293), 3, 1, 0; (195139), 3, 1, 0; (298677), 3, 1, 0; (299103), 2, 1, 0; *[29, 9, 0∗, 2015/07/16–2015/08/09]*

{19} (385186), 10, 1, 0; *[10, 1, 0∗, 2015/07/17]*

{6} (36218), 4, 1, 0; (91849), 4, 1, 0; (339723), 4, 1, 0; *[12, 3, 0∗, 2015/07/26–2015/07/27]*

{9} 2015 JY_1, 3, 1, 0; 2015 OA_{26}, 3, 1, 0; 2015 PK_9, 5, 1, 0; (78694), 3, 1, 0; (436724), 3, 1, 0; *[17, 5, 0∗, 2015/07/04–2015/08/10]*

U78 Cedar Glen Observatory
L. DuBois, P.O. Box 537, Cedar Glen, CA 92321, U.S.A. [admin@thecgo.com]
0.4-m Cassegrain + CCD
PPMXL
(928), 6, 2, 63; (2549), 10, 2, 23; (3388), 8, 2, 14; (6600), 10, 2, 23; (7822), 6, 2, 2; *[40, 5, 0∗, 2015/05/28–2015/08/14]*

V30 Heaven on Earth Observatory, Mayhill
W. K. Y. Yeung, C902 New Kwai Fong Garden, Kwai Fong, N. T., Hong Kojng [microplanet333@yahoo.com]
0.70-m $f/3$ reflector + CCD
GSC-ACT
2001 SN_{12}, 3, 1, 0; 2002 RJ_{128}, 4, 1, 0; 2008 SE_{202}, 2, 1, 0; 2014 GQ_{16}, 4, 1, 0; 2014 WD_{403}, 2, 1, 0; 2015 BZ_{86}, 4, 1, 0; 2015 PQ_{230}, 4, 1, 0; 2015 QG_6 ∗, 3, 1, 0; (3211), 3, 1, 0; (3694), 3, 1, 0; (4029), 8, 2, 2; (5876), 3, 1, 0; (8079), 4, 1, 0; (8277), 2, 1, 0; (9485), 8, 2, 2; (11072), 3, 1, 0; (12357), 3, 1, 0; (14473), 8, 2, 2; (15106), 10, 3, 7; (16661), 4, 1, 0; (16976), 3, 1, 0; (17471), 3, 1, 0; (20655), 3, 1, 0; (20970), 4, 1, 0; (24790), 2, 1, 0; (26325), 3, 1, 0; (29324), 3, 1, 0; (31495), 8, 2, 2; (34955), 4, 1, 0; (35664), 4, 1, 0; (36506), 3, 1, 0; (37310), 3, 1, 0; (38867), 4, 2, 2; (41402), 3, 1, 0; (42433), 8, 2, 2; (42480), 4, 1, 0; (44848), 4, 1, 0; (45841), 3, 1, 0; (47603), 3, 1, 0; (48020), 3, 1, 0; (50197), 3, 1, 0; (54951), 3, 1, 0; (55057), 2, 1, 0; (57098), 4, 1, 0; (62785), 2, 1, 0; (65649), 3, 1, 0; (70690), 4, 1, 0; (70865), 4, 1, 0; (74041), 4, 1, 0; (74332), 4, 1, 0; (74577), 8, 2, 2; (76030), 6, 2, 2; (77611), 3, 1, 0; (80202), 8, 2, 2; (84644), 3, 1, 0; (86158), 3, 1, 0; (86467), 8, 2, 2; (92005), 3, 1, 0; (96948), 8, 2, 2; (98745), 8, 2, 2; (99097), 3, 1, 0; (101478), 4, 1, 0; (102956), 8, 2, 2; (120770), 8, 2, 2; (121081), 3, 1, 0; (121713), 4, 1, 0; (124196), 4, 1, 0; (133239), 3, 1, 0; (134501), 3, 1, 0; (134758), 4, 1, 0; (136098), 8, 2, 2; (138186), 3, 1, 0; (139884), 6, 2, 7; (142212), 4, 1, 0; (143139), 3, 1, 0; (144888), 2, 1, 0; (155642), 8, 2, 2; (158180), 6, 2, 2; (161473), 4, 1, 0; (162327), 4, 1, 0; (170485), 4, 1, 0; (174960), 4, 1, 0; (176304), 2, 1, 0; (178943), 8, 2, 2; (180039), 4, 1, 0; (181244), 3, 1, 0; (183165), 11, 3, 9; (188497), 3, 1, 0; (191951), 3, 1, 0; (198870), 3, 1, 0; (200490), 8, 2, 2; (200939), 11, 3, 7; (208112), 4, 1, 0; (209297), 6, 2, 2; (221329), 8, 2, 2; (230506), 3, 1, 0; (230858), 4, 1, 0; (232478), 4, 1, 0; (234626), 4, 1, 0; (239706), 7, 2, 9; (240369), 8, 2, 2; (248142), 4, 1, 0; (255097), 3, 1, 0; (256487), 8, 2, 2; (274275), 3, 1, 0; (280832), 4, 1, 0; (281145), 8, 2, 2; (298424), 4, 1, 0; (298542), 3, 1, 0; (304950), 4, 1, 0; (308990), 3, 1, 0; (333148), 4, 1, 0; (343176), 4, 1, 0; (347006), 8, 2, 2; (351218), 4, 1, 0; (354523), 4, 1, 0; (425933), 4, 1, 0; (426519), 3, 1, 0; *[530, 118, 1∗, 2014/11/23–2015/08/21]*

V37 McDonald Observatory-LCOGT ELP
T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lcogt.net]
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
1998 RN_1, 3, 1, 0; 2015 PJ, 3, 1, 0; *[6, 2, 0∗, 2015/08/07]*

V59 Millwood Observatory, Comfort
M. Miller, 236 Echo Falls, Comfort, TX 70813, U.S.A. [mmiller@hctc.net]
0.24-m $f/6.3$ Schmidt-Cassegrain + CCD
UCAC-4
(436724), 1, 1, 0; *[1, 1, 0∗, 2015/07/20]*

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
(19), 3, 1, 0; (442), 6, 2, 1; (4055), 51, 17, 48; (206378), 66, 22, 24; (436724), 18, 6, 8; *[144, 5, 0∗, 2015/07/02–2015/08/27]*

W11 Calumet Astronomy Center, Lowell
A. W. Rengstorf, Purdue University Calumet, Dept. of Chemistry and Physics, 2200 169th St., Gyte 268, Hammond, IN 46323, U.S.A. [adamwr@purduecal.edu]
Observers T. Pan, C. Luo, S. Jung
0.51-m f/8.1 Ritchey-Chrétien + CCD
UCAC-3
(1685), 4, 2, 5; *[4, 1, 0∗, 2015/07/15–2015/07/20]*

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
2010 PR_{66}, 9, 2, 8; (4055), 10, 2, 29; (22085), 5, 1, 0; (85989), 5, 1, 0; (206378), 5, 1, 0; (348400), 10, 2, 10; (385186), 10, 2, 9; (436724), 5, 1, 0; *[59, 8, 0∗, 2015/07/01–2015/08/22]*

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
2015 BF_{229}, 3, 1, 0; *[3, 1, 0∗, 2013/09/05]*

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
2002 OZ_{16}, 2, 1, 0; 2004 RV_{109}, 2, 1, 0; 2015 OK_{26}, 2, 1, 0; (420), 6, 2, 4; (500), 6, 2, 2; (5870), 3, 1, 0; (67154), 2, 1, 0; (93583), 3, 1, 0; (121708), 2, 1, 0; (159426), 2, 1, 0; (438054), 2, 1, 0; (438068), 3, 1, 0; (438080), 2, 1, 0; *[37, 13, 0∗, 2015/07/22–2015/08/23]*

W84 Cerro Tololo-DECam
A. N. Heinze, 124 Grant St., Port Jefferson, NY 11777, U.S.A. [ariheinze@hotmail.com] (4)
L. Allen, NOAO, 950 N. Cherry Ave., P.O. Box 26732, Tucson, AZ 85726, U.S.A. [lallen@noao.edu] (5)
D. A. Cameron, PAS, U Rochester, Rochester, NY 14627, U.S.A. [camerond@rochester.rr.com] (6)
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)
Observers L. French, D. James, R. Stephens, K. Connour, E. E. Mamajek, F. Moolekamp, D. J. James, D. A. Cameron, A. Earle, D. Herrera, C. Fuentes, J. Rajagopal, E. Mamajek, D. Cameron, C. D'Andrea, D. Gangkofner, T. Li, C. H. Spinks, D. Tucker, N. Maccrann, S. Kent, R. Kron, S. Kuhlmann, S. Kulhmann, N. MacCrann
Measurers F. Valdes, D. A. Cameron, D. Gerdes
4.0-m f/2.87 reflector + CCD
2MASS
{4} 2015 PX_{29}, 47, 1, 0; *[47, 1, 0∗, 2014/03/31]*

{5} 2010 FE_{49}, 5, 1, 0; 2013 FA_{28}, 6, 1, 0; 2013 HC_{86}, 3, 1, 0; *[14, 3, 0∗, 2013/04/16–2013/04/17]*

{6} 1999 ON_4, 5, 2, 1; 2014 WW_{46}, 3, 1, 0; 2015 KL_{160} ∗, 5, 2, 1; 2015 KJ_{161} ∗, 4, 2, 1; 2015 KK_{161} ∗, 5, 2, 1; 2015 KL_{161} ∗, 5, 2, 1; 2015 KN_{161} ∗, 5, 2, 1; 2015 PD_{229}, 5, 2, 1; (267717), 2, 2, 1; *[39, 9, 5∗, 2013/05/31–2015/05/28]*

{7} 2013 TH_{159} ∗, 17, 6, 433; 2014 QR_{441} ∗, 22, 7, 164; 2014 VT_{37} ∗, 15, 5, 60; *[54, 3, 3∗, 2013/10/03–2015/01/29]*

{9} 1999 TB_{72}, 8, 1, 0; 2001 QY_{225}, 27, 1, 0; 2002 PG_{191}, 3, 1, 0; 2004 FE_{37}, 3, 1, 0; 2004 FM_{91}, 11, 2, 2; 2004 QG_{15}, 28, 1, 0; 2005 QL_{63}, 3, 1, 0; 2005 SX_{268}, 5, 1, 0; 2005 UU_{101}, 4, 1, 0; 2005 UU_{435}, 5, 1, 0; 2005 UJ_{515}, 20, 1, 0; 2006 AF_{35}, 26, 1, 0; 2006 UV_{49}, 21, 1, 0; 2006 WD_{49}, 6, 1, 0; 2007 AM_{11}, 23, 1, 0; 2007 FZ_{45}, 12, 1, 0; 2007 TC_{132}, 13, 1, 0; 2007 VN_{77}, 28, 1, 0; 2007 VD_{218}, 5, 1, 0; 2008 AF_{138}, 24, 1, 0; 2008 DG_{14}, 30, 1, 0; 2008 DN_{60}, 5, 1, 0; 2008 RK_{42}, 3, 1, 0; 2008 SO_{195}, 18, 1, 0; 2008 SG_{211}, 23, 4, 4; 2008 VZ_1, 5, 1, 0; 2008 WD_{23}, 18, 1, 0; 2009 BT_{60}, 28, 1, 0; 2009 CH_{25}, 3, 1, 0; 2009 FT_{64}, 11, 3, 2; 2009 QS_4, 14, 3, 2; 2010 FR_{21}, 6, 1, 0; 2010 JZ_{43}, 5, 1, 0; 2010 WV_{51}, 3, 1, 0; 2011 KF_{26}, 9, 2, 2; 2011 KW_{44}, 26, 1, 0; 2011 OZ_{10}, 10, 3, 2; 2011 OS_{11}, 3, 1, 0; 2011 SD_{256}, 13, 1, 0; 2011 UM_{35}, 4, 1, 0; 2011 UV_{148}, 19, 1, 0; 2011 UP_{179}, 5, 1, 0; 2011 WB_{48}, 6, 1, 0; 2011 XY_1, 6, 2, 1; 2012 BH_{74}, 19, 1, 0; 2012 CW_{38}, 6, 1, 0; 2012 QZ_{12}, 3, 1, 0; 2012 RH_{41}, 5, 1, 0; 2012 TD_{160}, 4, 1, 0; 2012 US_{39}, 3, 1, 0; 2012 UN_{65}, 5, 1, 0; 2012 UY_{155}, 3, 1, 0; 2012 WY_1, 5, 1, 0; 2013 AJ_{28}, 20, 1, 0; 2013 AG_{79}, 7, 1, 0; 2013 AZ_{100}, 12, 1, 0; 2013 BP_{34}, 18, 4, 3; 2013 CH_{25}, 29, 1, 0; 2013 CZ_{70}, 6, 2, 1; 2013 CP_{155}, 16, 1, 0; 2013 CC_{209}, 30, 1, 0; 2013 WO_{21}, 4, 1, 0; 2013 YC_{114}, 10, 2, 2; 2014 AY_6, 3, 1, 0; 2014 AP_{41}, 9, 1, 0; 2014 AS_{46}, 6, 1, 0; 2014 DY_{76}, 6, 1, 0; 2014 HX_{13}, 24, 1, 0; 2014 YB_{35}, 28, 1, 0; 2015 DF_{205}, 10, 3, 2; 2015 FV_{107}, 12, 3, 2; 2015 FK_{110}, 13, 3, 2; 2015 FA_{152}, 4, 1, 0; 2015 FV_{173}, 9, 2, 2; 2015 FL_{174}, 14, 3, 2; 2015 FJ_{340}, 7, 2, 2; 2015 GJ_{26}, 4, 1, 0; 2015 GB_{33}, 6, 2, 2; 2015 GD_{33}, 10, 3, 2; 2015 HA_7, 8, 2, 2; 2015 HQ_{50}, 9, 2, 1; 2015 HR_{148}, 7, 2, 2; 2015 HD_{155}, 40, 4, 4; 2015 HS_{155}, 4, 1, 0; 2015 KO_4, 17, 3, 3; 2015 KP_4, 22, 4, 4; 2015 KQ_{27}, 12, 3, 2; 2015 KD_{40}, 4, 1, 0; 2015 KB_{41}, 4, 1, 0; 2015 KO_{41}, 5, 1, 0; 2015 KP_{41}, 6, 1, 0; 2015 KR_{41}, 6, 1, 0; 2015 KR_{143}, 5, 1, 0; 2015 KW_{143}, 5, 1, 0; 2015 KJ_{144}, 6, 1, 0; 2015 KO_{144}, 6, 1, 0; 2015 KR_{144}, 6, 1, 0; 2015 KU_{144}, 5, 1, 0; 2015 KW_{144}, 6, 1, 0; 2015 KD_{146}, 4, 1, 0; 2015 KM_{160} ∗, 17, 4, 3; 2015 KN_{160} ∗, 21, 4, 3; 2015 KO_{160} ∗, 8, 2, 1; 2015 KP_{160} ∗, 8, 2, 1; 2015 KQ_{160} ∗, 8, 2, 1; 2015 KR_{160} ∗, 8, 2, 1; 2015 KS_{160} ∗, 9, 2, 2; 2015 KT_{160}, 4, 1, 0; 2015 KU_{160}, 6, 1, 0; 2015 KV_{160}, 4, 1, 0; 2015 KW_{160}, 6, 1, 0; 2015 KX_{160}, 5, 1, 0; 2015 KY_{160}, 4, 1, 0; 2015 KZ_{160}, 3, 1, 0; 2015 KA_{161}, 4, 1, 0; 2015 KB_{161}, 6, 1, 0; 2015 KC_{161}, 3, 1, 0; 2015 KD_{161}, 6, 1, 0; 2015 KE_{161}, 5, 1, 0; 2015 KF_{161}, 3, 1, 0; 2015 KG_{161}, 6, 1, 0; 2015 KH_{161}, 3, 1, 0; 2015 LN_9, 5, 1, 0; 2015 LK_{10}, 4, 1, 0; 2015 LT_{37}, 5, 1, 0; 2015 LE_{40} ∗, 8, 2, 1; 2015 LF_{40} ∗, 6, 2, 1; 2015 LG_{40} ∗, 7, 2, 1; 2015 LH_{40} ∗, 7, 2, 1; 2015 LJ_{40} ∗, 7, 2, 2; 2015 LK_{40} ∗, 6, 2, 1; 2015 LL_{40} ∗, 7, 2, 1; (555), 3, 1, 0; (1477), 3, 1, 0; (2024), 5, 1, 0; (2961), 6, 1, 0; (3154), 5, 1, 0; (3798), 3, 1, 0; (4173), 3, 1, 0; (4445), 6, 1, 0; (5291), 29, 1, 0; (6378), 3, 1, 0; (7350), 30, 1, 0; (8068), 16, 1, 0; (8721), 3, 1, 0; (8912), 6, 1, 0; (9309), 3, 1, 0; (9330), 3, 1, 0; (9373), 3, 1, 0; (9445), 6, 1, 0; (9614), 3, 1, 0; (10360), 30, 1, 0; (10755), 3, 1, 0; (10810), 6, 1, 0; (11134), 30, 1, 0; (11395), 34, 5, 4; (11473), 5, 1, 0; (12533), 3, 1, 0; (12589), 3, 1, 0; (12856), 3, 1, 0; (14553), 6, 1, 0; (14779), 4, 1, 0; (14956), 5, 1, 0; (16150), 13, 3, 2; (16764), 3, 1, 0; (17089), 7, 2, 2; (17207), 10, 1, 0; (17905), 19, 1, 0; (18190), 11, 3, 2; (18747), 10, 1, 0; (19636), 3, 1, 0; (20271), 3, 1, 0; (21253), 3, 1, 0; (21550), 36, 5, 4; (22872), 21, 3, 3; (23092), 10, 2, 1; (24232), 13, 3, 2; (24530), 10, 2, 1; (24607), 40, 4, 4; (24813), 5, 1, 0; (26538), 3, 1, 0; (26904), 3, 1, 0; (27722), 27, 4, 3; (28276), 3, 1, 0; (28479), 30, 1, 0; (28755), 6, 1, 0; (29120), 12, 3, 2; (29156), 3, 1, 0; (29589), 3, 1, 0; (30878), 3, 1, 0; (31231), 14, 3, 2; (32661), 30, 1, 0; (32788), 5, 1, 0; (32883), 3, 1, 0; (34111), 15, 3, 2; (35047), 3, 1, 0; (35074), 29, 1, 0; (36038), 30, 1, 0; (36963), 3, 1, 0; (37361), 30, 1, 0; (37912), 6, 1, 0; (38493), 30, 1, 0; (38546), 3, 1, 0; (38617), 4, 1, 0; (39303), 3, 1, 0; (40400), 3, 1, 0; (41377), 3, 1, 0; (42047), 19, 1, 0; (42100), 6, 1, 0; (42860), 5, 1, 0; (43532), 30, 1, 0; (44102), 3, 1, 0; (44939), 23, 3, 4; (47405), 13, 3, 2; (47728), 6, 1, 0; (48181), 6, 1, 0; (48562), 3, 1, 0; (48601), 3, 1, 0; (48660), 3, 1, 0; (49586), 33, 4, 3; (49701), 30, 1, 0; (51283), 7, 2, 2; (51990), 16, 3, 2; (52968), 3, 1, 0; (53888), 6, 1, 0; (54162), 3, 1, 0; (54337), 6, 1, 0; (54496), 6, 1, 0; (54501), 16, 2, 1; (55257), 6, 1, 0; (55311), 3, 1, 0; (56020), 3, 1, 0; (56050), 3, 1, 0; (56057), 3, 1, 0; (56275), 3, 1, 0; (56870), 30, 1, 0; (56992), 37, 5, 4; (57915), 12, 3, 2; (58243), 30, 1, 0; (58305), 30, 1, 0; (58576), 3, 1, 0; (59202), 18, 1, 0; (59369), 6, 1, 0; (59493), 10, 2, 1; (61146), 6, 1, 0; (61863), 3, 1, 0; (62084), 11, 2, 4; (63347), 3, 1, 0; (63429), 4, 1, 0; (63765), 5, 1, 0; (64044), 26, 1, 0; (64387), 3, 1, 0; (65370), 3, 1, 0; (65794), 41, 4, 3; (66594), 11, 2, 2; (66935), 35, 5, 4; (66954), 26, 4, 4; (70962), 24, 4, 3; (71364), 4, 1, 0; (72633), 6, 1, 0; (73739), 3, 1, 0; (73792), 30, 1, 0; (74132), 38, 4, 3; (74937), 13, 2, 2; (75210), 35, 5, 4; (75295), 10, 2, 1; (75724), 3, 1, 0; (76686), 6, 1, 0; (76921), 10, 1, 0; (77216), 24, 3, 3; (78311), 30, 1, 0; (78777), 3, 1, 0; (79902), 33, 5, 4; (80423), 29, 1, 0; (80575), 10, 1, 0; (80814), 3, 1, 0; (80925), 9, 1, 0;

(81521), 3, 1, 0; (81975), 15, 3, 2; (82594), 3, 1, 0; (82756), 3, 1, 0; (83150), 36, 5, 4; (83542), 30, 1, 0; (83980), 22, 3, 2; (84240), 5, 1, 0; (84456), 3, 1, 0; (85485), 30, 1, 0; (85712), 3, 1, 0; (85878), 30, 1, 0; (86445), 30, 1, 0; (87379), 3, 1, 0; (87765), 3, 1, 0; (88186), 3, 1, 0; (89324), 3, 1, 0; (89607), 30, 1, 0; (89846), 3, 1, 0; (89882), 28, 3, 2; (90179), 3, 1, 0; (90454), 15, 3, 2; (90590), 3, 1, 0; (91171), 3, 1, 0; (91185), 3, 1, 0; (91914), 3, 1, 0; (91978), 3, 1, 0; (92191), 3, 1, 0; (92512), 28, 1, 0; (92704), 4, 1, 0; (93231), 4, 1, 0; (93658), 11, 3, 2; (95217), 3, 1, 0; (95386), 5, 1, 0; (95568), 3, 1, 0; (96443), 27, 1, 0; (96764), 30, 1, 0; (96863), 6, 1, 0; (97907), 22, 4, 4; (98138), 36, 5, 4; (98699), 6, 1, 0; (98849), 3, 1, 0; (98893), 3, 1, 0; (98985), 3, 1, 0; (99124), 28, 4, 3; (99217), 3, 1, 0; (99445), 10, 2, 1; (99494), 6, 1, 0; (100935), 4, 1, 0; (100954), 3, 1, 0; (101048), 3, 1, 0; (101056), 30, 4, 3; (101362), 5, 1, 0; (102083), 18, 4, 4; (102175), 6, 1, 0; (102444), 30, 1, 0; (102659), 4, 1, 0; (103054), 3, 1, 0; (103576), 3, 1, 0; (103650), 3, 1, 0; (103698), 3, 1, 0; (103738), 6, 1, 0; (103843), 6, 1, 0; (104192), 29, 1, 0; (105473), 6, 1, 0; (105784), 6, 1, 0; (106745), 3, 1, 0; (107480), 30, 1, 0; (108306), 9, 2, 1; (108639), 3, 1, 0; (108711), 13, 3, 2; (108720), 16, 1, 0; (110288), 3, 1, 0; (111499), 16, 3, 2; (111917), 3, 1, 0; (112248), 8, 2, 1; (112893), 3, 1, 0; (113130), 6, 1, 0; (113150), 6, 1, 0; (113731), 3, 1, 0; (115145), 13, 3, 2; (115958), 3, 1, 0; (117282), 44, 5, 4; (118041), 5, 1, 0; (118556), 3, 1, 0; (118651), 34, 5, 4; (118995), 30, 1, 0; (119179), 6, 1, 0; (119185), 20, 1, 0; (119340), 10, 1, 0; (119661), 30, 1, 0; (120064), 4, 1, 0; (121235), 13, 3, 2; (121334), 3, 1, 0; (121581), 3, 1, 0; (122756), 3, 1, 0; (122884), 10, 2, 2; (123680), 3, 1, 0; (124417), 9, 1, 0; (125444), 6, 1, 0; (125618), 30, 1, 0; (125813), 30, 1, 0; (125834), 6, 1, 0; (127241), 3, 1, 0; (127665), 8, 2, 1; (128175), 26, 4, 4; (129213), 9, 1, 0; (129368), 6, 1, 0; (129652), 5, 1, 0; (129970), 3, 1, 0; (131309), 24, 3, 3; (133514), 3, 1, 0; (133617), 3, 1, 0; (134076), 3, 1, 0; (135158), 6, 1, 0; (135918), 4, 1, 0; (136135), 4, 1, 0; (136316), 3, 1, 0; (136322), 3, 1, 0; (136601), 3, 1, 0; (136641), 7, 1, 0; (137362), 10, 2, 2; (137765), 11, 3, 2; (138566), 32, 5, 4; (138612), 5, 1, 0; (139290), 3, 1, 0; (140035), 30, 1, 0; (140110), 9, 2, 1; (140229), 6, 1, 0; (140297), 9, 2, 1; (140414), 6, 1, 0; (140613), 4, 1, 0; (140622), 26, 4, 3; (141040), 4, 1, 0; (143297), 6, 1, 0; (144641), 5, 1, 0; (144712), 3, 1, 0; (144830), 6, 1, 0; (145922), 3, 1, 0; (145981), 13, 3, 2; (146885), 4, 1, 0; (147129), 10, 2, 2; (147684), 3, 1, 0; (147747), 8, 1, 0; (149056), 3, 1, 0; (149125), 16, 1, 0; (149194), 28, 3, 4; (149859), 6, 1, 0; (150123), 5, 1, 0; (150669), 3, 1, 0; (150677), 30, 1, 0; (152203), 3, 1, 0; (152916), 26, 1, 0; (152917), 19, 1, 0; (153672), 12, 3, 2; (154769), 6, 1, 0; (156575), 26, 1, 0; (156834), 6, 1, 0; (157159), 3, 1, 0; (157161), 3, 1, 0; (157288), 4, 1, 0; (157742), 30, 1, 0; (158056), 6, 1, 0; (158294), 5, 1, 0; (158558), 4, 1, 0; (158720), 14, 3, 2; (158948), 30, 1, 0; (159729), 28, 1, 0; (160211), 3, 1, 0; (161331), 4, 1, 0; (161342), 3, 1, 0; (161397), 13, 3, 2; (161474), 15, 1, 0; (162002), 3, 1, 0; (163971), 6, 1, 0; (164083), 3, 1, 0; (164752), 4, 1, 0; (165453), 3, 1, 0; (166614), 3, 1, 0; (166689), 4, 1, 0; (166886), 3, 1, 0; (167234), 16, 1, 0; (167504), 3, 1, 0; (167512), 4, 1, 0; (168588), 20, 1, 0; (169792), 3, 1, 0; (169861), 4, 1, 0; (170558), 26, 1, 0; (171949), 5, 1, 0; (173770), 3, 1, 0; (173801), 3, 1, 0; (174781), 15, 2, 1; (175597), 4, 1, 0; (175855), 17, 3, 2; (177054), 5, 1, 0; (179351), 5, 1, 0; (180289), 6, 1, 0; (180771), 3, 1, 0; (181099), 6, 2, 1; (181458), 6, 1, 0; (184676), 3, 1, 0; (184810), 29, 1, 0; (184945), 3, 1, 0; (185132), 3, 1, 0; (186686), 5, 1, 0; (187636), 3, 1, 0; (188351), 9, 2, 2; (189218), 16, 3, 2; (190204), 10, 2, 2; (190583), 12, 3, 2; (190844), 30, 1, 0; (190886), 30, 1, 0; (190979), 6, 1, 0; (191022), 5, 1, 0; (191041), 28, 3, 3; (191316), 32, 5, 4; (191777), 5, 1, 0; (191967), 3, 1, 0; (192670), 13, 3, 2; (192907), 16, 3, 2; (193390), 6, 1, 0; (194180), 29, 1, 0; (194197), 8, 1, 0; (194309), 22, 1, 0; (194540), 5, 1, 0; (194553), 15, 1, 0; (194560), 3, 1, 0; (194616), 25, 1, 0; (194663), 27, 1, 0; (194742), 24, 1, 0; (194796), 28, 1, 0; (194850), 17, 1, 0; (194964), 3, 1, 0; (195082), 28, 1, 0; (195478), 3, 1, 0; (195498), 36, 5, 4; (196351), 3, 1, 0; (196400), 19, 1, 0; (196757), 34, 3, 2; (197683), 30, 1, 0; (199272), 5, 1, 0; (199978), 15, 3, 2; (200028), 23, 3, 4; (200032), 14, 3, 4; (200244), 3, 1, 0; (200895), 3, 1, 0; (201014), 28, 1, 0; (202054), 29, 1, 0; (202325), 30, 1, 0; (202386), 19, 1, 0; (203531), 3, 1, 0; (204008), 10, 2, 2; (204376), 4, 1, 0; (204527), 5, 1, 0; (204694), 19, 1, 0; (206271), 15, 3, 2; (206296), 6, 1, 0; (206724), 13, 3, 2; (206812), 6, 1, 0; (206876), 6, 1, 0; (206890), 22, 4, 3; (207361), 38, 4, 3; (207574), 8, 1, 0; (207885), 3, 1, 0; (210106), 30, 1, 0; (210158), 5, 1, 0; (210280), 4, 1, 0; (210285), 28, 1, 0; (210415), 30, 1, 0; (210643), 30, 1, 0; (210901), 16, 1, 0; (211895), 15, 3, 2; (212302), 14, 3, 2; (212324), 17, 3, 4; (212469), 4, 1, 0; (212729), 24, 1, 0; (214727), 3, 1, 0; (214964), 3, 1, 0; (220052), 6, 2, 1; (220148), 11, 2, 2; (220476), 30, 4, 3; (221910), 6, 1, 0; (222400), 30, 1, 0; (222861), 9, 2, 2; (222947), 30, 1, 0; (222990), 13, 2, 2; (225222), 10, 3, 2; (228006), 21, 4, 4; (228022), 3, 1, 0; (228097), 3, 1, 0; (229383), 5, 1, 0; (229615), 3, 1, 0; (229856), 41, 5, 4; (230192), 17, 3, 4; (230279), 5, 1, 0; (230338), 10, 3, 2; (230504), 3, 1, 0; (230598), 3, 1, 0; (231085), 30, 1, 0; (231913), 3, 1, 0; (232363), 8, 1, 0; (232476), 3, 1, 0; (232824), 4, 1, 0; (236175), 30, 1, 0; (236538), 3, 1, 0; (236808), 21, 4, 4; (238210), 12, 2, 4; (238245), 5, 1, 0; (238956), 30, 1, 0; (239207), 3, 1, 0; (240200), 7, 1, 0; (240475), 6, 1, 0; (240495), 16, 3, 2; (240625), 3, 1, 0; (241086), 10, 1, 0; (241891), 9, 2, 1; (242703), 30, 1, 0; (242952), 17, 3, 3; (243000), 4, 1, 0; (244130), 26, 4, 4; (244447), 30, 1, 0; (244746), 31, 4, 4; (244783), 14, 3, 2; (244868), 8, 2, 2; (245092), 3, 1, 0; (245441), 4, 1, 0; (245699), 6, 1, 0; (246573), 22, 3, 4; (247380), 3, 1, 0; (247477), 8, 2, 1; (250823), 3, 1, 0; (251735), 30, 1, 0; (251932), 4, 1, 0; (251975), 3, 1, 0; (252151), 3, 1, 0; (252724), 30, 4, 3; (254159), 3, 1, 0; (254679), 11, 2, 2; (254955), 18, 1, 0; (255190), 3, 1, 0; (255245), 3, 1, 0; (255294), 30, 1, 0; (255346), 10, 1, 0; (256427), 3, 1, 0; (257404), 37, 5, 4; (257405), 10, 2, 2; (258597), 27, 3, 3; (258646), 15, 3, 2; (258961), 20, 4, 4; (260701), 10, 2, 1; (264068), 20, 4, 3; (265217), 38, 4, 3; (266992), 8, 2, 2; (267248), 19, 3, 4; (267527), 30, 1, 0; (267717), 3, 1, 0; (267913), 4, 1, 0; (269326), 14, 3, 2; (270252), 4, 1, 0; (270736), 20, 1, 0; (272479), 6, 1, 0; (272603), 31, 4, 4; (273659), 3, 1, 0; (275119), 5, 1, 0; (275557), 4, 1, 0; (275795), 3, 1, 0; (275906), 19, 4, 3; (276060), 12, 3, 2; (277499), 19, 4, 3; (278197), 3, 1, 0; (278212), 3, 1, 0; (278609), 10, 1, 0; (278703), 6, 1, 0; (278736), 5, 1, 0; (280038), 8, 2, 2; (280055), 10, 3, 2; (280485), 3, 1, 0; (280533), 6, 1, 0; (281419), 6, 2, 2; (281913), 10, 2, 2; (282230), 6, 1, 0; (283893), 14, 2, 1; (284485), 3, 1, 0; (284486), 6, 1, 0; (284645), 5, 1, 0; (285300), 6, 1, 0; (285830), 8, 2, 2; (287948), 6, 1, 0; (288172), 5, 1, 0; (288355), 3, 1, 0; (288642), 10, 3, 2; (289225), 6, 1, 0; (289629), 30, 1, 0; (292769), 5, 1, 0; (293071), 6, 1, 0; (293143), 14, 1, 0; (293526), 24, 1, 0; (293944), 16, 1, 0; (293971), 5, 1, 0; (294210), 6, 1, 0; (295704), 3, 1, 0; (296323), 3, 1, 0; (296363), 3, 1, 0; (298000), 16, 1, 0; (298374), 26, 1, 0; (298411), 3, 1, 0; (299304), 14, 3, 4; (300553), 21, 1, 0; (300572), 23, 1, 0; (300687), 7, 1, 0; (301689), 16, 3, 2; (301809), 15, 1, 0; (303696), 6, 1, 0; (306182), 13, 3, 2; (307124), 3, 1, 0; (307642), 29, 1, 0; (308865), 3, 1, 0; (309017), 9, 1, 0; (309608), 6, 1, 0; (309613), 17, 1, 0; (312393), 30, 1, 0; (312482), 18, 4, 4; (312799), 20, 4, 3; (314273), 16, 3, 2; (314915), 3, 1, 0; (316808), 5, 1, 0; (318669), 5, 1, 0; (319011), 3, 1, 0; (321618), 17, 1, 0; (322377), 10, 2, 1; (328199), 8, 1, 0; (328628), 13, 2, 1; (333171), 16, 1, 0; (333721), 9, 2, 2; (335014), 6, 1, 0; (335457), 5, 1, 0; (335658), 6, 1, 0; (336396), 8, 2, 1; (336667), 35, 4, 4; (336805), 4, 1, 0; (337418), 4, 1, 0; (337511), 7, 2, 1; (338340), 14, 3, 2; (338571), 33, 4, 3; (338946), 3, 1, 0; (340710), 7, 2, 1; (341958), 8, 2, 2; (342203), 5, 1, 0; (342289), 6, 1, 0; (342580), 5, 1, 0; (343204), 5, 1, 0; (343234), 22, 1, 0; (343515), 4, 1, 0; (344483), 24, 1, 0; (344485), 3, 1, 0; (344575), 6, 2, 1; (344691), 5, 1, 0; (345186), 13, 1, 0; (345724), 8, 1, 0; (345791), 26, 1, 0; (345967), 5, 1, 0; (346197), 5, 1, 0; (348517), 5, 1, 0; (348668), 23, 1, 0; (348961), 5, 1, 0; (349078), 20, 1, 0; (349908), 15, 3, 2; (350159), 11, 3, 2; (350280), 6, 1, 0; (350540), 16, 1, 0; (351170), 3, 1, 0; (351174), 28, 1, 0; (352671), 14, 2, 1; (353193), 13, 3, 2; (353215), 33, 4, 4; (353359), 4, 1, 0; (353550), 4, 1, 0; (353866), 3, 1, 0; (354073), 8, 1, 0; (355161), 25, 1, 0; (355434), 5, 1, 0; (356367), 3, 1, 0; (356402), 3, 1, 0; (356505), 3, 1, 0; (357140), 28, 1, 0; (357329), 3, 1, 0; (357503), 10, 1, 0; (357699), 3, 1, 0; (358150), 28, 1, 0; (359990), 14, 3, 2; (360085), 18, 1, 0; (368087), 4, 1, 0; (375145), 8, 2, 2; (375808), 8, 2, 1; (378231), 4, 1, 0; (378632), 4, 1, 0; (379014), 5, 1, 0; (379762), 14, 3, 2; (380468), 4, 1, 0; (380809), 3, 1, 0; (380946), 10, 2, 2; (381069), 5, 1, 0; (381777), 6, 1, 0; (381794), 28, 5, 4; (381832), 4, 1, 0; (382668), 18, 4, 4; (383377), 3, 1, 0; (383733), 10, 2, 3; (384305), 15, 3, 2; (385199), 5, 2, 1; (385466), 5, 1, 0; (385866), 4, 1, 0; (386475), 3, 1, 0; (386574), 6, 1, 0; (386627), 32, 4, 3; (386808), 3, 1, 0; (387192), 6, 1, 0; (387299), 4, 1, 0; (387344), 6, 1, 0; (387706), 3, 1, 0; (388658), 3, 1, 0; (389210), 6, 1, 0; (389318), 17, 4, 3; (390287), 3, 1, 0; (390595), 29, 1, 0; (391968), 3, 1, 0; (392094), 28, 1, 0; (392449), 8, 2, 2; (392842), 6, 1, 0; (393170), 3, 1, 0; (393296), 43, 5, 4; (395237), 19, 1, 0; (395621), 3, 1, 0; (395745), 3, 1, 0; (396059), 25, 1, 0; (396096), 26, 1, 0; (396267), 23, 1, 0; (397246), 15, 1, 0; (398089), 3, 1, 0; (398865), 14, 1, 0; (398908), 26, 1, 0; (399304), 29, 1, 0; (400637), 22, 1, 0; (401212), 3, 1, 0; (401780), 3, 1, 0; (403191), 3, 1, 0; (423702), 18, 4, 3; (425348), 8, 2, 2; (430559), 14, 3, 2; (430841), 5, 1, 0; (431430), 13, 3, 2; (431826), 7, 2, 2; (433275), 32, 4, 3; (433295), 12, 3, 2; (434010), 5, 1, 0; (434377), 8, 1, 0; (434626), 4, 1, 0; (435025), 4, 1, 0; (435564), 6, 1, 0; (435612), 6, 1, 0; (435821), 6, 1, 0; (435985), 4, 1, 0; (436168), 33, 5, 4; (436270), 6, 2, 1; (436398), 8, 2, 1; (436399), 6, 1, 0; (436507), 6, 1, 0; (436812), 3, 1, 0; (436985), 13, 3, 2; (437304), 3, 1, 0; (437426), 19, 4, 3; (437442), 5, 1, 0; (437485), 3, 1, 0; (437669), 8, 2, 2; (437907), 3, 1, 0; (438868), 6, 1, 0; (439199), 27, 1, 0; *[9674, 854, 14*, 2015/05/27–2015/06/03]*

W85 Cerro Tololo-LCOGT A

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1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4

2010 CV_{66}, 7, 1, 0; 2010 RA_{180}, 3, 1, 0; 2011 SB_{218}, 4, 1, 0; 2015 MB_{60}, 4, 1, 0; 2015 NV_{13}, 4, 1, 0; 2015 NZ_{13}, 5, 1, 0; 2015 NA_{14}, 5, 1, 0; 2015 NB_{14}, 3, 1, 0; 2015 OH, 7, 1, 0; 2015 OM, 5, 1, 0; 2015 OO_{21}, 7, 1, 0; 2015 OP_{21}, 4, 1, 0; 2015 OT_{21}, 4, 1, 0; 2015 OD_{22}, 4, 1, 0; 2015 OF_{26}, 5, 1, 0; 2015 OG_{26}, 5, 1, 0; 2015 OF_{35}, 4, 1, 0; 2015 OH_{35}, 3, 1, 0; 2015 OO_{35}, 6, 1, 0; 2015 OQ_{35}, 4, 1, 0; 2015 OC_{78}, 3, 1, 0; 2015 OR_{78}, 3, 1, 0; 2015 OS_{78}, 3, 1, 0; 2015 OT_{78}, 3, 1, 0; 2015 OX_{78}, 3, 1, 0; 2015 OR_{79}, 5, 1, 0; 2015 QH_9, 3, 1, 0; 2015 QK_9, 6, 1, 0; (4361), 7, 1, 0; (40788), 4, 1, 0; (74630), 5, 1, 0; (74988), 3, 1, 0; (85493), 3, 1, 0; (89509), 3, 1, 0; (104718), 3, 1, 0; (126132), 3, 1, 0; (156875), 3, 1, 0; (175630), 3, 1, 0; (206367), 3, 1, 0; (240208), 4, 1, 0; (270004), 4, 1, 0; (287975), 4, 1, 0; (302621), 3, 1, 0; (307383), 3, 1, 0; (348137), 3, 1, 0; (349800), 4, 1, 0; (352990), 3, 1, 0; (354514), 4, 1, 0; (388540), 3, 1, 0; (436724), 7, 1, 0; (438840), 2, 1, 0; *[206, 51, 0*, 2013/11/21–2015/08/26]*

W86 Cerro Tololo-LCOGT B

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[tlister@lcogt.net]

1.0-m $f/8$ Ritchey-Chrétien + CCD
PPMXL

1999 VA_{102}, 3, 1, 0; 2004 TG_{36}, 3, 1, 0; 2007 GG_{59}, 8, 1, 0; 2007 ON_{4}, 3, 1, 0; 2008 SS_{125}, 3, 1, 0; 2008 TN_{4}, 3, 1, 0; 2009 SA_{88}, 4, 1, 0; 2010 CJ_{22}, 4, 1, 0; 2011 QA_{39}, 3, 1, 0; 2012 FC_{81}, 3, 1, 0; 2012 GF_{20}, 5, 1, 0; 2012 VH_{45}, 4, 1, 0; 2012 WA_{3}, 4, 1, 0; 2012 WZ_{4}, 5, 1, 0; 2012 XR_{48}, 8, 2, 3; 2013 AK_{94}, 4, 1, 0; 2013 CX_{112}, 3, 1, 0; 2013 FK_{11}, 3, 1, 0; 2013 GR_{132}, 3, 1, 0; 2013 YU_{113}, 8, 2, 1; 2014 JE_{61}, 3, 1, 0; 2015 HM_{10}, 8, 1, 0; 2015 KF_{44}, 3, 1, 0; 2015 LB_{31}, 4, 1, 0; 2015 MO_{65}, 6, 1, 0; 2015 MT_{92}, 3, 1, 0; 2015 MM_{116}, 5, 1, 0; 2015 MR_{129}, 8, 2, 2; 2015 MA_{130}, 8, 1, 0; 2015 MN_{130}, 5, 1, 0; 2015 MO_{130}, 3, 1, 0; 2015 MD_{131}, 3, 1, 0; 2015 ME_{131}, 3, 1, 0; 2015 NH, 8, 1, 0; 2015 NW_{2}, 7, 1, 0; 2015 NY_{2}, 6, 1, 0; 2015 NE_{3}, 3, 1, 0; 2015 NK_{13}, 6, 1, 0; 2015 NN_{13}, 7, 1, 0; 2015 NO_{13}, 3, 1, 0; 2015 NT_{13}, 4, 1, 0; 2015 NX_{22}, 7, 1, 0; 2015 NY_{22}, 7, 1, 0; 2015 NG_{24}, 6, 1, 0; 2015 NH_{24}, 7, 1, 0; 2015 NJ_{24}, 4, 1, 0; 2015 NK_{24}, 3, 1, 0; 2015 OG, 6, 1, 0; 2015 OK, 4, 1, 0; 2015 ON, 3, 1, 0; 2015 OO, 4, 1, 0; 2015 OC_{1} *, 11, 3, 6; 2015 OR_{21}, 4, 1, 0; 2015 OS_{21}, 3, 1, 0; 2015 OU_{21}, 3, 1, 0; 2015 OV_{21}, 5, 1, 0; 2015 OW_{21}, 4, 1, 0; 2015 OY_{21}, 8, 1, 0; 2015 OB_{22}, 3, 1, 0; 2015 OE_{22}, 3, 1, 0; 2015 OF_{22}, 3, 1, 0; 2015 ON_{22}, 3, 1, 0; 2015 OU_{25} *, 12, 3, 3; 2015 OV_{25} *, 12, 3, 3; 2015 OA_{27} *, 8, 2, 1; 2015 OB_{27} *, 8, 2, 1; 2015 OC_{27} *, 8, 2, 1; 2015 OD_{27} *, 12, 2, 1; 2015 OE_{27} *, 8, 2, 1; 2015 OF_{27} *, 8, 2, 1; 2015 OG_{27} *, 8, 2, 1; 2015 OE_{35}, 3, 1, 0; 2015 OP_{35}, 3, 1, 0; 2015 OP_{47} *, 7, 2, 1; 2015 OA_{79}, 3, 1, 0; 2015 OB_{79}, 4, 1, 0; 2015 OD_{79}, 3, 1, 0; 2015 OE_{79}, 3, 1, 0; 2015 OF_{79}, 3, 1, 0; 2015 OG_{79}, 3, 1, 0; 2015 OH_{79}, 5, 1, 0; 2015 OP_{79}, 3, 1, 0; 2015 OQ_{79}, 6, 1, 0; 2015 OS_{79}, 3, 1, 0; 2015 OT_{79}, 3, 1, 0; 2015 PB_{229}, 3, 1, 0; 2015 PS_{291}, 2, 1, 0; 2015 PZ_{308}, 6, 2, 1; 2015 QR_{3}, 6, 1, 0; 2015 QS_{3}, 3, 1, 0; 2015 QU_{8}, 4, 1, 0; 2015 QC_{9}, 3, 1, 0; 2015 QF_{9}, 3, 1, 0; 2015 QM_{9} *, 6, 2, 1; 2015 QN_{9} *, 6, 2, 1; 2015 QO_{9} *, 6, 2, 1; (1269), 7, 1, 0; (10153), 4, 1, 0; (11143), 3, 1, 0; (11265), 7, 1, 0; (11578), 3, 1, 0; (11946), 4, 1, 0; (16845), 3, 1, 0; (18262), 4, 1, 0; (23596), 6, 1, 0; (25584), 4, 1, 0; (25900), 3, 1, 0; (29923), 3, 1, 0; (38576), 3, 1, 0; (38810), 12, 3, 4; (43767), 3, 1, 0; (44137), 3, 1, 0; (44599), 3, 1, 0; (45446), 5, 1, 0; (45491), 3, 1, 0; (46381), 3, 1, 0; (47516), 3, 1, 0; (53244), 3, 1, 0; (53355), 3, 1, 0; (54845), 4, 1, 0; (55816), 12, 2, 3; (57704), 4, 1, 0; (66899), 4, 1, 0; (67035), 4, 1, 0; (71670), 5, 1, 0; (73283), 4, 1, 0; (74115), 4, 1, 0; (74342), 3, 1, 0; (77515), 6, 1, 0; (78419), 2, 1, 0; (79566), 3, 1, 0; (84740), 3, 1, 0; (85058), 4, 1, 0; (90065), 3, 1, 0; (93587), 3, 1, 0; (94009), 7, 1, 0; (98775), 4, 1, 0; (101016), 4, 1, 0; (101407), 4, 1, 0; (106636), 4, 1, 0; (107500), 3, 1, 0; (113056), 4, 1, 0; (119318), 3, 1, 0; (124840), 7, 1, 0; (126548), 2, 1, 0; (126590), 3, 1, 0; (128635), 3, 1, 0; (137630), 3, 1, 0; (145611), 4, 1, 0; (148183), 4, 1, 0; (148212), 7, 1, 0; (149742), 4, 1, 0; (150422), 4, 1, 0; (154371), 4, 1, 0; (155157), 3, 1, 0; (156840), 3, 1, 0; (164881), 3, 1, 0; (166482), 2, 1, 0; (171481), 4, 1, 0; (172889), 3, 1, 0; (174984), 12, 2, 3; (175986), 4, 1, 0; (176395), 6, 1, 0; (178339), 4, 1, 0; (178779), 6, 1, 0; (179159), 4, 1, 0; (184808), 4, 1, 0; (185328), 2, 1, 0; (194677), 2, 1, 0; (198085), 4, 1, 0; (202880), 3, 1, 0; (204578), 4, 1, 0; (206491), 6, 1, 0; (206642), 3, 1, 0; (207237), 3, 1, 0; (207514), 3, 1, 0; (207811), 6, 1, 0; (209909), 3, 1, 0; (215795), 4, 1, 0; (216681), 6, 1, 0; (231415), 3, 1, 0; (233133), 3, 1, 0; (233957), 3, 1, 0; (238875), 3, 1, 0; (238897), 4, 1, 0; (241264), 4, 1, 0; (244233), 3, 1, 0; (246327), 7, 1, 0; (250775), 3, 1, 0; (251346), 3, 1, 0; (254134), 3, 1, 0; (261358), 3, 1, 0; (263665), 4, 1, 0; (270483), 3, 1, 0; (275313), 3, 1, 0; (277387), 4, 1, 0; (280753), 8, 2, 3; (291690), 4, 1, 0; (293526), 7, 1, 0; (296498), 5, 1, 0; (300470), 3, 1, 0; (301361), 7, 1, 0; (302185), 3, 1, 0; (302621), 3, 1, 0; (304229), 3, 1, 0; (308121), 4, 1, 0; (308397), 5, 1, 0; (310914), 6, 1, 0; (314299), 3, 1, 0; (318075), 4, 1, 0; (318163), 6, 1, 0; (332847), 3, 1, 0; (334958), 12, 2, 1; (337089), 3, 1, 0; (337823), 4, 1, 0; (340931), 3, 1, 0; (340940), 8, 2, 3; (342325), 12, 3, 4; (344047), 8, 2, 1; (345185), 3, 1, 0; (350501), 4, 1, 0; (350812), 2, 1, 0; (351338), 3, 1, 0; (354647), 7, 1, 0; (357305), 8, 2, 3; (361675), 3, 1, 0; (365949), 3, 1, 0; (369057), 3, 1, 0; (386752), 3, 1, 0; (387222), 2, 1, 0; (395912), 4, 1, 0; (395941), 4, 1, 0; (396127), 3, 1, 0; (396332), 4, 1, 0; (397080), 5, 1, 0; (403169), 3, 1, 0; (404724), 4, 1, 0; (437248), 3, 1, 0; (438267), 3, 1, 0; (438454), 4, 1, 0; *[1081, 240, 14*, 2015/06/19–2015/08/24]*

W87 Cerro Tololo-LCOGT C

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lcogt.net]
Observers T. Lister, E. Gomez
1.0-m $f/8$ Ritchey-Chrétien + CCD
PPMXL

2015 HM_{10}, 23, 2, 1; 2015 NK_{13}, 7, 1, 0; 2015 OM_{21}, 3, 1, 0; 2015 OH_{22}, 8, 1, 0; 2015 OE_{35}, 8, 1, 0; 2015 OK_{35}, 3, 1, 0; 2015 PL_{57}, 3, 1, 0; 2015 QQ_{3}, 5, 1, 0; 2015 QT_{3}, 15, 1, 0; 2015 QE_{9}, 5, 1, 0; (33062), 3, 1, 0; (63997), 3, 1, 0; (64405), 3, 1, 0; (126539), 3, 1, 0; (138094), 3, 1, 0; (208856), 3, 1, 0; (320914), 3, 1, 0; *[101, 17, 0*, 2015/07/17–2015/08/27]*

W88 Slooh.com Chile Observatory, La Dehesa

M. Kumrucu-Lohmiller, 5 Atlas Road, Sharon, MA 02067-1301, U.S.A.
[mklohmiller@gmail.com] (5)
Observers M. Kumrucu-Lohmiller, A. D. Paul, B. Lütkenhöner
0.35-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4

(436724), 5, 1, 0; *[5, 1, 0*, 2015/07/02–2015/07/03]*

W89 Cerro Tololo-LCOGT Aqawan A #1

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lcogt.net]
0.4-m $f/8$ Schmidt-Cassegrain + CCD
UCAC-4

2010 PR_{66}, 26, 2, 1; (704), 13, 2, 11; (949), 13, 2, 11; (1566), 17, 2, 3; (348400), 18, 1, 0; *[87, 5, 0*, 2015/06/26–2015/07/22]*

W95 Observatorio Panameno, San Pedro de Atacama

J. Fabrega, Apartado 0819-11182, Panama, Panama [fabrega@ae.com.pa]
Observers A. Maury, J.-F. Soulier
0.4-m $f/3.6$ Newtonian reflector + CCD
UCAC-4

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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.-G. Bosch, T. Noel, J.-F. Soulier
0.4-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4

2015 PK, 3, 1, 0; (12912), 2, 1, 0; (53817), 2, 1, 0; (58612), 2, 1, 0; (60558), 2, 1, 0; (72763), 2, 1, 0; (118401), 2, 1, 0; (160430), 2, 1, 0; *[17, 8, 0*, 2015/07/24–2015/08/25]*

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 astrograph + CCD
UCAC-4

2015 NX_9, 5, 1, 0; 2015 OH, 4, 1, 0; 2015 OM, 3, 1, 0; 2015 OS, 5, 1, 0; 2015 OJ_{26}, 13, 1, 0; 2015 PK_9, 3, 1, 0; 2015 QG, 4, 1, 0; 2015 QN_3, 6, 2, 1; (9400), 3, 1, 0; (232691), 3, 1, 0; *[49, 10, 0∗, 2015/07/13–2015/08/20]*

Y00 SONEAR Observatory, Oliveira

C. Jacques, Rua Bernardino Sena Figueiredo 348, Belo Horizonte, Brazil
[cjacqueslf@gmail.com]

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

1997 KY_1, 3, 1, 0; 2000 RQ_{80}, 6, 2, 11; 2000 RG_{84}, 3, 1, 0; 2001 QF_{132}, 3, 1, 0; 2001 SO_{309}, 3, 1, 0; 2002 GE_{188}, 3, 1, 0; 2002 PP_1, 3, 1, 0; 2002 PU_{141}, 3, 1, 0; 2002 RB, 3, 1, 0; 2002 RM_{57}, 6, 2, 3; 2002 RH_{74}, 3, 1, 0; 2002 RV_{293}, 3, 1, 0; 2002 TO_{37}, 15, 4, 9; 2002 TL_{55}, 3, 1, 0; 2002 TT_{212}, 6, 2, 1; 2003 BY_{37}, 3, 1, 0; 2003 YD_{108}, 6, 2, 7; 2004 BQ_4, 12, 4, 9; 2004 NV_{22}, 6, 2, 12; 2004 PK, 21, 7, 30; 2004 RO_{100}, 3, 1, 0; 2004 RR_{107}, 3, 1, 0; 2004 TE_{297}, 6, 2, 2; 2005 SU_{55}, 3, 1, 0; 2005 SQ_{271}, 3, 1, 0; 2005 SH_{285}, 3, 1, 0; 2005 TK_3, 3, 1, 0; 2005 WC_{71}, 6, 2, 2; 2005 WE_{178}, 6, 2, 31; 2006 JR_{58}, 3, 1, 0; 2006 KZ_{86}, 6, 2, 5; 2006 RZ_4, 3, 1, 0; 2006 RM_{98}, 3, 1, 0; 2006 SU_{25}, 6, 2, 1; 2007 PR_{45}, 3, 1, 0; 2007 RE_8, 3, 1, 0; 2007 RZ_{117}, 3, 1, 0; 2007 SD_5, 3, 1, 0; 2007 TG_{142}, 3, 1, 0; 2007 TO_{146}, 3, 1, 0; 2007 VX_{10}, 3, 1, 0; 2007 VA_{278}, 3, 1, 0; 2008 LX_{17}, 3, 1, 0; 2008 OO_3, 3, 1, 0; 2008 QQ_5, 3, 1, 0; 2008 SS_{22}, 3, 1, 0; 2008 SZ_{139}, 3, 1, 0; 2008 SJ_{245}, 6, 2, 1; 2008 UH_{39}, 3, 1, 0; 2008 UT_{64}, 3, 1, 0; 2008 UW_{98}, 6, 2, 2; 2008 UO_{300}, 3, 1, 0; 2008 VD_{64}, 3, 1, 0; 2009 BS_{73}, 6, 2, 27; 2009 BV_{77}, 3, 1, 0; 2009 TD_{25}, 3, 1, 0; 2010 MA_{46}, 6, 2, 10; 2010 NW_{65}, 6, 2, 4; 2010 NH_{98}, 3, 1, 0; 2011 JB_3, 3, 1, 0; 2011 KX, 3, 1, 0; 2011 MT_4, 6, 2, 9; 2011 MM_6, 3, 1, 0; 2011 MD_{11}, 3, 1, 0; 2011 PF_8, 3, 1, 0; 2011 QD_{23}, 3, 1, 0; 2011 QN_{63}, 18, 6, 9; 2011 QS_{77}, 3, 1, 0; 2011 SZ_{173}, 3, 1, 0; 2011 SG_{182}, 6, 2, 7; 2011 SH_{215}, 3, 1, 0; 2011 UF_{57}, 18, 5, 5; 2011 UP_{95}, 3, 1, 0; 2011 UQ_{151}, 3, 1, 0; 2011 UU_{159}, 3, 1, 0; 2011 VN_{18}, 15, 3, 2; 2011 WK_{16}, 3, 1, 0; 2011 WJ_{39}, 3, 1, 0; 2011 YC_7, 6, 2, 1; 2012 AU_{10}, 9, 3, 10; 2012 SD_{32}, 6, 2, 9; 2012 TD_{15}, 9, 3, 3; 2012 TE_{34}, 3, 1, 0; 2012 TB_{69}, 3, 1, 0; 2012 TK_{284}, 3, 1, 0; 2012 UW_{18}, 6, 2, 1; 2012 UR_{67}, 3, 1, 0; 2012 UV_{108}, 3, 1, 0; 2012 WJ_{21}, 3, 1, 0; 2012 XS_{62}, 3, 1, 0; 2012 XN_{117}, 3, 1, 0; 2012 XB_{155}, 3, 1, 0; 2013 AS_{21}, 3, 1, 0; 2013 AK_{50}, 6, 2, 9; 2013 AN_{55}, 6, 2, 9; 2013 AC_{103}, 6, 2, 15; 2013 AR_{119}, 9, 3, 9; 2013 CS_{19}, 12, 4, 19; 2013 CB_{40}, 3, 1, 0; 2014 BE_{25}, 3, 1, 0; 2014 CU_7, 9, 3, 3; 2014 DA_{15}, 3, 1, 0; 2014 DL_{137}, 3, 1, 0; 2014 FD_2, 6, 2, 7; 2014 HN_{22}, 3, 1, 0; 2014 HE_{146}, 3, 1, 0; 2014 HV_{188}, 9, 3, 9; 2014 JS, 6, 2, 2; 2014 JR_{21}, 3, 1, 0; 2014 LA_{26}, 6, 2, 3; 2015 JJ_2, 3, 1, 0; 2015 LE_{12}, 6, 2, 2; 2015 LH_{14}, 3, 1, 0; 2015 LR_{20}, 6, 2, 1; 2015 LP_{24}, 24, 7, 9; 2015 LQ_{33}, 3, 1, 0; 2015 MO_1, 6, 2, 27; 2015 MO_{11}, 3, 1, 0; 2015 MN_{52}, 3, 1, 0; 2015 MO_{52}, 3, 1, 0; 2015 MK_{57}, 3, 1, 0; 2015 MV_{57}, 3, 1, 0; 2015 MZ_{58}, 3, 1, 0; 2015 MB_{59}, 3, 1, 0; 2015 MM_{59}, 12, 4, 6; 2015 MS_{59}, 3, 1, 0; 2015 ME_{66}, 6, 2, 15; 2015 MQ_{67}, 3, 1, 0; 2015 ML_{125}, 3, 1, 0; 2015 MQ_{125}, 3, 1, 0; 2015 NQ_4, 3, 1, 0; 2015 NX_9 ∗, 35, 9, 23; 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Observers V. Lipunov, R. Rebolo, E. Gorbovskoy, M. Sierra, G. Israelian, N. Lodieu, A. Kuznetsov, N. Tiurina, V. Chazov, P. Balanutsa, O. Gress, M. Serra-Ricart, V. Kornilov, G. Israelyan, K. Ivanov, D. Vlasenko, E. Popova, N. Shatskiy, V. Yurkov, Y. Sergienko, V. Krushinsky, I. Zalozhnih, A. Popov, S. Yazev, N. Budnev
Measurers V. Kornilov, O. Gress, N. Budnev, A. Tlatov, A. Kuznetsov, A. Gabovich, E. Konstantinov, O. Chuvalaev, V. Poleshchuk, A. Parkhomenko, D. Dormidontov, V. Senik, V. Shumkov, S. Shurpakov, A. Bourdanov, D. Buckley, S. Potter, A. Kniazev, M. Kotze

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

2002 TG_{144}, 3, 1, 0; 2011 QG_{21}, 6, 2, 1; 2015 QO ∗, 11, 2, 1; (906), 10, 4, 6; (20018), 11, 4, 7; (24716), 9, 3, 3; (385186), 3, 1, 0; *[53, 7, 1∗, 2015/07/06–2015/08/21]*

Z64 Observatorio el Miron del Cielo
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0.20-m $f/5$ Newtonian reflector + CCD
UCAC-4
(3093), 4, 1, 0; (4020), 4, 1, 0; *[8, 2, 0∗, 2015/08/25]*

Z72 Cademuir Observatory, Dalkey
A. White, 1 Burmah Close, Dalkey, Co. Dublin, Ireland [albert@albertwhite.ie]
0.23-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
UCAC-4
(7822), 2, 1, 0; (68950), 2, 1, 0; *[4, 2, 0∗, 2015/08/16]*

Z81 Observatorio Estrella de Mar
G. Liñán, Rincón de la Victoria, Málaga, Spain [glyan340@hotmail.com]
0.28-m Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
UCAC-4
2015 HM_{10}, 8, 2, 2; 2015 JY_1, 3, 1, 0; 2015 NA_{14}, 4, 1, 0; (25747), 4, 1, 0; (348400), 6, 2, 5; (437975), 6, 2, 1; *[31, 6, 0∗, 2015/07/05–2015/07/16]*

Z86 St. Mellons
K. Denver, 26 Milverton Road, Llanrumney, Cardiff CF3 5SD, Wales [k.denver@ntlworld.com]
0.30-m Newtonian reflector + CCD
UCAC-4
(7822), 9, 3, 5; *[9, 1, 0∗, 2015/08/04–2015/08/08]*

Z89 Macclesfield
C. G. Heapy, 133 Whirley Road, Macclefield, SK10 3JL, United Kingdom [chrisheapy@ntlworld.com]
0.13-m $f/5.2$ refractor + CCD
UCAC-4
(19178), 2, 1, 0; *[2, 1, 0∗, 2015/04/22]*

Z90 Albox
J. L. Maestre Garcia, Brda Locaiba, 04800 Albox - Almeria, Spain [jlmaestre@hotmail.es]
0.4-m $f/10$ Schmidt-Cassegrain + CCD
USNO-A2.0
(50000), 3, 1, 0; (136108), 5, 2, 1; (136472), 4, 2, 1; (145452), 3, 1, 0; (436724), 6, 1, 0; *[21, 5, 0∗, 2015/07/25–2015/08/03]*

Z95 Astronomia Para Todos Remote Observatory
A. Aznar, Calle La Plana, 44, pta 13 46530 Puzol, Valencia, Spain [info@apt.com.es]
0.35-m Schmidt-Cassegrain + CCD
USNO-A2.0
(385186), 6, 1, 0; *[6, 1, 0∗, 2015/08/02]*

Z99 Clixby Observatory, Cleethorpes
A. Mickleburgh, 38 Clixby Close, Cleethorpes, DN35 0HS, Lincolnshire, United Kingdom [andrew.mickleburgh@ntlworld.com]
0.36-m $f/8$ Schmidt-Cassegrain + CCD
UCAC-4
2006 AW, 3, 1, 0; 2009 SK_1, 3, 1, 0; 2015 PK_9, 3, 1, 0; 2015 PU_{228}, 6, 1, 0; 2015 PV_{228}, 3, 1, 0; 2015 PJ_{291}, 3, 1, 0; 2015 QZ_8, 3, 1, 0; 2015 QB_9, 3, 1, 0; (45217), 3, 1, 0; *[30, 9, 0∗, 2015/08/15–2015/08/23]*

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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/2000 CT_{54} (LINEAR)
Epoch 2001 June 20.0 TT = JDT 2452080.5

				MPCW	
T	2001 June 19.49981 TT				
q	3.1561167		(2000.0)	**P**	**Q**
z	+0.0003994	ω	272.64927	+0.25580928	+0.93489354
	±0.0000008	Ω	18.96481	−0.25166562	+0.31013412
e	0.9987395	i	49.20705	−0.93339489	+0.17260042

From 180 observations 1999 Mar. 21–2004 Jan. 17, mean residual 0″.7.

C/2000 Y2 (Skiff)
Epoch 2001 Apr. 1.0 TT = JDT 2452000.5

				MPCW	
T	2001 Mar. 21.81899 TT				
q	2.7686898		(2000.0)	**P**	**Q**
z	+0.0020433	ω	326.82140	−0.88714083	−0.46100523
	±0.0000049	Ω	185.84862	+0.45573911	−0.86784985
e	0.9943428	i	12.08739	+0.07268430	−0.18523178

From 154 observations 2000 Nov. 22–2001 June 11, mean residual 0″.6.

C/2001 C1 (LINEAR)
Epoch 2002 Mar. 27.0 TT = JDT 2452360.5

				MPCW	
T	2002 Mar. 28.29824 TT				
q	5.1045983		(2000.0)	**P**	**Q**
z	+0.0000219	ω	219.93701	−0.50985694	+0.68683728
	±0.0000021	Ω	33.71127	−0.32808468	+0.40135966
e	0.9998880	i	68.95182	−0.79523980	−0.60594139

From 201 observations 2000 Apr. 29–2002 July 3, mean residual 0″.6.

P/2001 F1 (NEAT)
Epoch 2017 May 7.0 TT = JDT 2457880.5

				MPCW	
T	2017 May 5.89912 TT				
q	4.1845539		(2000.0)	**P**	**Q**
n	0.05900686	ω	80.51854	−0.93892488	−0.10987214
a	6.5343295	Ω	92.65354	−0.01671174	−0.93198305
e	0.3596047	i	19.05410	+0.34371615	−0.34545000
P	16.7				

From 136 observations 2001 Feb. 24–2002 July 22, mean residual 0″.6.

C/2001 X1 (LINEAR)
Epoch 2002 Jan. 6.0 TT = JDT 2452280.5

				MPCW	
T	2002 Jan. 8.09261 TT				
q	1.6979484		(2000.0)	**P**	**Q**
z	+0.0016828	ω	202.20166	−0.77999203	+0.50781280
	±0.0000432	Ω	336.07105	+0.61712383	+0.52726454
e	0.9971427	i	115.62729	−0.10378151	−0.68126226

From 175 observations 2001 Dec. 14–2002 Mar. 13, mean residual 0″.7.

C/2002 A1 (LINEAR)
Epoch 2001 Nov. 27.0 TT = JDT 2452240.5

				MPCW	
T	2001 Dec. 2.28758 TT				
q	4.7134147		(2000.0)	**P**	**Q**
n	0.01270112	ω	19.08205	−0.18580205	−0.95187475
a	18.1931588	Ω	82.20691	+0.86648829	−0.27570023
e	0.7409238	i	14.24201	+0.46333103	+0.13387997
P	77.6				

From 114 observations 2001 Dec. 13–2004 Feb. 17, mean residual 0″.5.

C/2002 J4 (NEAT)
Epoch 2003 Oct. 8.0 TT = JDT 2452920.5

				MPCW	
T	2003 Oct. 3.15131 TT				
q	3.6337808		(2000.0)	**P**	**Q**
z	−0.0000055	ω	230.70574	+0.29570978	+0.66520086
	±0.0000008	Ω	70.88124	−0.48563254	+0.72272897
e	1.0000199	i	46.52184	−0.82262796	−0.18753837

From 197 observations 2002 May 4–2006 Oct. 1, mean residual 0″.6.

C/2002 K1 (NEAT)
Epoch 2002 June 15.0 TT = JDT 2452440.5

				MPCW	
T	2002 June 16.45027 TT				
q	3.2302170		(2000.0)	**P**	**Q**
z	+0.0001184	ω	4.45982	+0.18288125	−0.00946902
	±0.0000372	Ω	280.54827	−0.93011372	−0.32561609
e	0.9996176	i	89.72139	−0.31850103	+0.94545465

From 62 observations 2002 May 16–Sept. 8, mean residual 0″.7.

C/2002 K2 (LINEAR)
Epoch 2002 Jan. 6.0 TT = JDT 2452280.5

				MPCW	
T	2002 Jan. 5.96982 TT				
q	5.2351890		(2000.0)	**P**	**Q**
z	+0.0012501	ω	26.67971	+0.10397515	−0.71866091
	±0.0000040	Ω	294.55620	−0.99273976	−0.11702307
e	0.9934554	i	130.89484	−0.06047268	+0.68544299

From 115 observations 2001 June 14–2003 Apr. 30, mean residual 0″.6.

C/2002 K4 (NEAT)
Epoch 2002 July 25.0 TT = JDT 2452480.5

				MPCW	
T	2002 July 12.97405 TT				
q	2.7644863		(2000.0)	**P**	**Q**
n	0.01344193	ω	24.43176	+0.53870968	−0.30595726
a	17.5184186	Ω	308.09865	−0.83805621	−0.09912747
e	0.8421954	i	94.06205	+0.08633465	+0.94687058
P	73.3				

From 209 observations 2002 May 27–Oct. 2, mean residual 0″.6.

C/2002 L9 (NEAT)
Epoch 2004 Apr. 25.0 TT = JDT 2453120.5

				MPCW	
T	2004 Apr. 6.05213 TT				
q	7.0330389		(2000.0)	**P**	**Q**
z	+0.0002129	ω	231.43146	+0.48703048	−0.05866669
	±0.0000009	Ω	110.45727	−0.15456176	+0.97620411
e	0.9985029	i	68.44556	−0.85959989	−0.20876723

From 306 observations 2002 June 6–2007 Jan. 11, mean residual 0″.5.

C/2003 G1 (LINEAR)
Epoch 2003 Feb. 10.0 TT = JDT 2452680.5

				MPCW	
T	2003 Feb. 3.65216 TT				
q	4.9162953		(2000.0)	**P**	**Q**
z	−0.0002557	ω	11.42134	−0.32609001	+0.43245896
	±0.0000006	Ω	246.09200	−0.92351960	−0.33567858
e	1.0012569	i	66.85581	−0.20193281	+0.83683878

From 1343 observations 2003 Apr. 8–2004 Oct. 14, mean residual 0″.5.

C/2003 J1 (NEAT)
Epoch 2003 Oct. 8.0 TT = JDT 2452920.5

				MPCW	
T	2003 Oct. 10.55224 TT				
q	5.1254270		(2000.0)	**P**	**Q**
z	+0.0017457	ω	196.02253	+0.47597459	−0.26418989
	±0.0000041	Ω	122.03282	−0.65835363	+0.52537500
e	0.9910526	i	98.31185	−0.58311121	−0.80881692

From 76 observations 2003 Apr. 29–2004 June 25, mean residual 0″.5.

C/2006 S3 (LONEOS)
Epoch 2012 Apr. 23.0 TT = JDT 2456040.5

				MPCW	
T	2012 Apr. 16.32293 TT				
q	5.1311798		(2000.0)	**P**	**Q**
z	−0.0006918	ω	140.12892	−0.21555300	−0.96492939
	±0.0000000	Ω	38.37038	−0.94614372	+0.24433582
e	1.0035498	i	166.03273	−0.24155529	−0.09597544

From 5340 observations 2006 Aug. 29–2015 May 31, mean residual 0″.7.

C/2008 S3 (Boattini)
Epoch 2011 June 8.0 TT = JDT 2455720.5

				MPCW	
T	2011 June 7.40069 TT				
q	8.0178670		(2000.0)	**P**	**Q**
z	−0.0001252	ω	39.96439	+0.94225504	+0.23006163
	±0.0000003	Ω	54.94137	+0.17645126	−0.95869151
e	1.0010042	i	162.70399	+0.28464083	−0.16727890

From 1660 observations 2006 Dec. 27–2015 July 17, mean residual 0″.6.

C/2009 F4 (McNaught)
Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

				MPCW	
T	2011 Dec. 31.89365 TT				
q	5.4548560		(2000.0)	**P**	**Q**
z	−0.0002878	ω	260.38353	+0.04749649	+0.61014536
	±0.0000002	Ω	53.58446	+0.16282529	+0.77643868
e	1.0015699	i	79.34759	−0.98551104	+0.15768836

From 1037 observations 2009 Mar. 19–2015 Aug. 20, mean residual 0″.5.

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	−0.0003255	ω	118.61456	+0.53547247	−0.22396544
	±0.0000001	Ω	93.43035	−0.69559918	−0.66377836
e	1.0019207	i	125.33578	+0.47896869	−0.71360897

From 8092 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. 26.61271 TT				
q	8.4455933		(2000.0)	**P**	**Q**
z	+0.0001950	ω	88.08580	−0.36203861	−0.74306158
	±0.0000015	Ω	43.06716	+0.07256392	−0.62443195
e	0.9983528	i	55.51186	+0.92933445	−0.24071609

From 298 observations 2010 Oct. 31–2015 Aug. 26, mean residual 0″.6.

C/2011 J2 (LINEAR)
Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

				MPCW	
T	2013 Dec. 25.29220 TT				
q	3.4434419		(2000.0)	**P**	**Q**
z	−0.0001497	ω	85.29287	+0.07042199	+0.97005815
	±0.0000001	Ω	163.94721	+0.16358625	−0.24109369
e	1.0005153	i	122.79880	+0.98401234	−0.02934294

From 5768 observations 2011 Mar. 10–2015 Aug. 26, mean residual 0″.5.

C/2011 KP$_{36}$ (Spacewatch)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 26.89733 TT				
q	4.8833105		(2000.0)	**P**	**Q**
z	+0.0260348	ω	180.59785	+0.99445337	+0.09830700
	±0.0000000	Ω	173.40036	−0.09509861	+0.99227937
e	0.8728640	i	18.98677	−0.04493038	+0.07561343

From 972 observations 2011 May 21–2015 Aug. 26, mean residual 0″.4.

C/2012 F3 (PANSTARRS)
Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

				MPCW	
T	2015 Apr. 6.68886 TT				
q	3.4568886		(2000.0)	**P**	**Q**
z	−0.0005064	ω	104.02281	−0.01876437	+0.99845831
	±0.0000006	Ω	164.61326	−0.97640500	−0.00705769
e	1.0017506	i	11.35459	−0.21513059	−0.05505622

From 1372 observations 2012 Jan. 19–2015 Aug. 24, mean residual 0″.5.

C/2012 K1 (PANSTARRS)
Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

				MPCW	
T	2014 Aug. 27.65590 TT				
q	1.0545556		(2000.0)	**P**	**Q**
z	−0.0001463	ω	203.10600	−0.47153228	+0.78070510
		Ω	317.73831	+0.87390798	+0.47595438
e	1.0001543	i	142.42840	+0.11807688	−0.40492836

From 7429 observations 2012 May 14–2015 Aug. 22, mean residual 0″.7.
Nongravitational parameters $A_1 = +1.95$, $A_2 = +0.0355$.

C/2012 K8 (Lemmon)
Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

				MPCW	
T	2014 Aug. 19.35219 TT				
q	6.4630112		(2000.0)	**P**	**Q**
z	−0.0002915	ω	75.85123	−0.03131296	−0.70868901
	±0.0000005	Ω	312.80742	−0.70286440	+0.51697766
e	1.0018839	i	106.11184	+0.71063432	+0.48009789

From 877 observations 2012 May 30–2015 Aug. 12, mean residual 0″.5.

C/2012 LP$_{26}$ (Palomar)
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5

				MPCW	
T	2015 Aug. 16.60844 TT				
q	6.5360480		(2000.0)	**P**	**Q**
z	+0.0001217	ω	145.15593	+0.51118345	+0.83866365
	±0.0000013	Ω	153.98766	−0.85327417	+0.52142831
e	0.9992045	i	25.37970	−0.10302754	−0.15733976

From 191 observations 2012 May 23–2015 Aug. 19, mean residual 0″.5.

C/2012 U1 (PANSTARRS)
Epoch 2014 July 2.0 TT = JDT 2456840.5

				MPCW	
T	2014 July 4.89855 TT				
q	5.2637084		(2000.0)	**P**	**Q**
z	+0.0000870	ω	70.07076	+0.06733402	−0.92350250
	±0.0000010	Ω	26.98197	+0.25668300	−0.34972137
e	0.9995421	i	56.33882	+0.96414727	+0.15760110

From 166 observations 2012 Oct. 17–2015 July 10, mean residual 0″.4.

C/2013 A1 (Siding Spring)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Oct. 25.30088 TT				
q	1.3987162		(2000.0)	**P**	**Q**
z	−0.0002734	ω	2.42176	+0.49140994	−0.56132758
		Ω	300.97674	−0.81154813	−0.57261413
e	1.0003824	i	129.04277	−0.31607894	+0.59751519

From 2639 observations 2012 Oct. 4–2015 Aug. 19, mean residual 0″.6.
Nongravitational parameters $A_1 = +2.03$, $A_2 = -0.3190$.

C/2013 C2 (Tenagra)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Aug. 30.30035 TT				
q	9.1310096		(2000.0)	**P**	**Q**
n	0.01531201	ω	308.79146	−0.91034978	+0.24124799
a	16.0613230	Ω	247.52461	−0.16367594	−0.95614916
e	0.4314908	i	21.33913	−0.38009666	−0.16606681
P	64.4				

From 307 observations 2013 Feb. 14–2015 Aug. 8, mean residual 0″.5.

C/2013 G3 (PANSTARRS)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Nov. 15.19402 TT				
q	3.8521852		(2000.0)	**P**	**Q**
z	−0.0001269	ω	76.49776	−0.00979409	+0.90462558
	±0.0000004	Ω	208.12647	−0.78719354	+0.25579201
e	1.0004887	i	64.66949	+0.61662826	+0.34091496

From 812 observations 2013 Apr. 10–2015 Aug. 19, mean residual 0″.4.

C/2013 G7 (McNaught)
Epoch 2014 Mar. 4.0 TT = JDT 2456720.5

				MPCW	
T	2014 Mar. 18.66164 TT				
q	4.6774757		(2000.0)	**P**	**Q**
z	+0.0005484	ω	218.26023	−0.64197922	+0.25812795
	±0.0000013	Ω	48.39988	−0.20262731	+0.85102820
e	0.9974346	i	105.10376	−0.73946254	−0.45729745

From 294 observations 2012 May 21–2015 Feb. 28, mean residual 0″.5.

C/2013 G8 (PANSTARRS)
Epoch 2013 Nov. 4.0 TT = JDT 2456600.5

				MPCW	
T	2013 Nov. 14.97253 TT				
q	5.1411812		(2000.0)	**P**	**Q**
z	+0.0003260	ω	80.16839	+0.68103101	+0.60973146
	±0.0000011	Ω	241.02102	−0.70680892	+0.69208530
e	0.9983241	i	27.61496	+0.19135807	+0.38632304

From 144 observations 2013 Apr. 14–2015 Aug. 20, mean residual 0″.5.

C/2013 G9 (Tenagra)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

				MPCW	
T	2015 Jan. 14.75789 TT				
q	5.3375088		(2000.0)	**P**	**Q**
z	−0.0001694	ω	204.94511	−0.94096378	−0.09715102
	±0.0000008	Ω	35.68759	−0.13078852	+0.98788324
e	1.0009043	i	146.23036	−0.31222031	−0.12103054

From 383 observations 2013 Apr. 15–2015 June 5, mean residual 0″.5.

C/2013 P3 (Palomar)
Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

				MPCW	
T	2014 Nov. 23.84639 TT				
q	8.6464810		(2000.0)	**P**	**Q**
z	−0.0001366	ω	177.18457	+0.99782314	+0.04582564
	±0.0000009	Ω	177.27546	−0.05998233	+0.33181076
e	1.0011811	i	93.91018	+0.02740630	−0.94223226

From 362 observations 2013 Aug. 8–2015 Aug. 15, mean residual 0″.4.

C/2013 P4 (PANSTARRS)
Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

				MPCW	
T	2014 Aug. 12.41301 TT				
q	5.9670384		(2000.0)	**P**	**Q**
n	0.01736512	ω	113.56253	+0.98180322	−0.17558305
a	14.7689901	Ω	256.61273	+0.13550852	+0.91464092
e	0.5959752	i	4.26447	+0.13304089	+0.36414638
P	56.8				

From 199 observations 2013 Aug. 15–2015 Aug. 12, mean residual 0″.5.

C/2013 U2 (Holvorcem)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Oct. 25.85775 TT				
q	5.1167368		(2000.0)	**P**	**Q**
z	+0.0011174	ω	107.37363	−0.38132859	−0.92068059
	±0.0000009	Ω	7.00172	+0.34188489	−0.22415405
e	0.9942828	i	43.09398	+0.85889652	−0.31953436

From 362 observations 2013 Oct. 23–2015 June 13, mean residual 0″.4.

C/2013 US$_{10}$ (Catalina)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Nov. 15.72094 TT				
q	0.8229585		(2000.0)	**P**	**Q**
z	−0.0003865	ω	340.36040	−0.90561467	−0.42047729
	±0.0000005	Ω	186.14489	−0.28586564	+0.50884876
e	1.0003180	i	148.87856	−0.31327770	+0.75118027

From 1539 observations 2013 Aug. 14–2015 Aug. 26, mean residual 0″.4.

C/2013 V1 (Boattini)
Epoch 2014 Apr. 13.0 TT = JDT 2456760.5

				MPCW	
T	2014 Apr. 21.23019 TT				
q	1.6608415		(2000.0)	**P**	**Q**
z	−0.0008139	ω	48.03305	−0.09908951	−0.48660247
		Ω	72.80993	+0.40161585	−0.81763474
e	1.0013517	i	65.30876	+0.91043175	+0.30771980

From 2019 observations 2013 Nov. 4–2015 Jan. 19, mean residual 0″.5.
Nongravitational parameters $A_1 = +2.78$, $A_2 = +0.3172$.

C/2013 V2 (Borisov)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Oct. 14.36325 TT				
q	3.5079192		(2000.0)	**P**	**Q**
z	−0.0012373	ω	94.47197	−0.64067984	−0.61548889
	±0.0000004	Ω	48.42730	+0.18243707	−0.70274583
e	1.0043404	i	37.84840	+0.74581905	−0.35682170

From 1663 observations 2012 Nov. 17–2015 July 17, mean residual 0″.4.

C/2013 V4 (Catalina)
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

				MPCW	
T	2015 Oct. 7.61097 TT				
q	5.1853516		(2000.0)	**P**	**Q**
z	−0.0004933	ω	40.45063	+0.22784469	−0.60308722
	±0.0000006	Ω	55.62128	+0.46387875	−0.62303995
e	1.0025579	i	67.85520	+0.85609772	+0.49810344

From 1195 observations 2013 Oct. 23–2015 Aug. 26, mean residual 0″.4.

C/2013 X1 (PANSTARRS)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Apr. 20.71834 TT MPCW

				P	Q
q	1.3142398		(2000.0)		
z	−0.0008009	ω	164.45593	+0.82524996	−0.52103681
	±0.0000017	Ω	130.95295	−0.54404082	−0.62984041
e	1.0010526	i	163.23046	−0.15159844	−0.57603967

From 589 observations 2013 Nov. 29–2015 Aug. 26, mean residual 0″.5.

C/2014 A4 (SONEAR)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5
T 2015 Sept. 5.84922 TT MPCW

				P	Q
q	4.1802824		(2000.0)		
z	−0.0002058	ω	356.78570	+0.85256027	+0.30633539
	±0.0000007	Ω	29.72729	+0.49653180	−0.72759435
e	1.0008605	i	121.35880	+0.16308635	+0.61381193

From 681 observations 2014 Jan. 12–2015 Aug. 26, mean residual 0″.4.

C/2014 AA$_{52}$ (Catalina)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5
T 2015 Feb. 27.64855 TT MPCW

				P	Q
q	2.0025900		(2000.0)		
z	−0.0002164	ω	292.26359	+0.44932367	+0.75645565
	±0.0000012	Ω	330.49315	+0.37790866	−0.64299790
e	1.0004334	i	105.21139	−0.80950187	+0.11970195

From 345 observations 2014 Jan. 4–2015 Aug. 25, mean residual 0″.6.

C/2014 E2 (Jacques)
Epoch 2014 July 2.0 TT = JDT 2456840.5
T 2014 July 2.51570 TT MPCW

				P	Q
q	0.6639310		(2000.0)		
z	+0.0014614	ω	344.04134	+0.32236742	+0.88590997
		Ω	56.39125	+0.90640511	−0.39047951
e	0.9990297	i	156.39209	+0.27296341	+0.25037828

From 4583 observations 2014 Mar. 13–2015 June 8, mean residual 0″.5.
Nongravitational parameters $A_1 = +2.09$, $A_2 = -0.2798$.

C/2014 F2 (Tenagra)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5
T 2015 Jan. 2.37178 TT MPCW

				P	Q
q	4.3143890		(2000.0)		
z	+0.0067908	ω	86.05161	−0.48716893	+0.01100537
	±0.0000011	Ω	267.44808	−0.39019153	+0.89182118
e	0.9707018	i	119.06074	+0.78129188	+0.45225421

From 277 observations 2014 Mar. 31–2015 June 10, mean residual 0″.5.

C/2014 L5 (Lemmon)
Epoch 2014 Dec. 9.0 TT = JDT 2457000.5
T 2014 Nov. 26.34691 TT MPCW

				P	Q
q	6.2031839		(2000.0)		
z	−0.0004406	ω	45.61016	+0.79404357	−0.35930358
	±0.0000025	Ω	35.68663	−0.15303803	−0.89878714
e	1.0027331	i	122.80801	+0.58828069	+0.25116255

From 66 observations 2013 Oct. 12–2015 July 22, mean residual 0″.4.

C/2014 M1 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5
T 2015 Aug. 26.49745 TT MPCW

				P	Q
q	5.5768066		(2000.0)		
z	−0.0004086	ω	336.74191	−0.22814149	−0.93348180
	±0.0000064	Ω	234.67533	−0.83152671	+0.03897408
e	1.0022785	i	160.17551	−0.50647289	+0.35650070

From 44 observations 2014 June 24–2015 July 7, mean residual 0″.3.

P/2014 MG$_4$ (Spacewatch-PANSTARRS)
Epoch 2013 May 28.0 TT = JDT 2456440.5
T 2013 June 13.55093 TT MPCW

				P	Q
q	3.7144148		(2000.0)		
n	0.08784511	ω	298.86320	−0.32141725	+0.93914650
a	5.0117682	Ω	311.86104	−0.80219677	−0.33806932
e	0.2588614	i	9.36745	−0.50316131	−0.06093427
P	11.2				

From 120 observations 2014 June 20–2015 Aug. 26, mean residual 0″.5.

C/2014 N3 (NEOWISE)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5
T 2015 Mar. 13.23779 TT MPCW

				P	Q
q	3.8822560		(2000.0)		
z	+0.0001431	ω	353.57198	+0.95234608	−0.05564922
	±0.0000007	Ω	19.92681	+0.30403859	+0.09440010
e	0.9994445	i	61.63494	+0.02444324	+0.99397776

From 573 observations 2014 July 4–2015 Aug. 26, mean residual 0″.4.

C/2014 OE$_4$ (PANSTARRS)
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5
T 2016 Dec. 10.74377 TT MPCW

				P	Q
q	6.2443937		(2000.0)		
z	+0.0000908	ω	65.74209	−0.08369529	+0.50406096
	±0.0000004	Ω	240.40007	−0.74842633	+0.53773903
e	0.9994331	i	81.34901	+0.65791575	+0.67583969

From 141 observations 2014 May 8–2015 Aug. 20, mean residual 0″.3.

C/2014 Q1 (PANSTARRS)
Epoch 2015 June 27.0 TT = JDT 2457200.5
T 2015 July 6.51208 TT MPCW

				P	Q
q	0.3145801		(2000.0)		
z	+0.0009169	ω	120.05118	−0.59118764	−0.79978795
	±0.0000023	Ω	8.76178	+0.26772765	−0.31635227
e	0.9997116	i	43.10896	+0.76080160	−0.51015731

From 533 observations 2014 Aug. 16–2015 Aug. 24, mean residual 0″.6.

C/2014 Q2 (Lovejoy)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5
T 2015 Jan. 30.06929 TT MPCW

				P	Q
q	1.2903570		(2000.0)		
z	+0.0017152	ω	12.39497	−0.12073224	−0.14528978
	±0.0000002	Ω	94.97561	+0.80567995	−0.59224079
e	0.9977868	i	80.30211	+0.57991684	+0.79255393

From 6349 observations 2014 July 1–2015 Aug. 26, mean residual 0″.5.

C/2014 R1 (Borisov)
Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

				MPCW	
T	2014 Nov. 19.23975 TT				
q	1.3454226		(2000.0)	**P**	**Q**
z	+0.0055868	ω	55.64913	−0.92588570	−0.33872547
	±0.0000033	Ω	104.05119	+0.26441101	−0.89733046
e	0.9924834	i	9.93294	+0.26985641	−0.28295425

From 468 observations 2014 Sept. 5–2015 Aug. 6, mean residual 0″.6.

C/2014 R3 (PANSTARRS)
Epoch 2016 July 31.0 TT = JDT 2457600.5

				MPCW	
T	2016 Aug. 7.95170 TT				
q	7.2751322		(2000.0)	**P**	**Q**
z	+0.0000085	ω	113.40626	−0.36323997	−0.82308268
	±0.0000045	Ω	334.11192	−0.21694441	+0.53041402
e	0.9999384	i	90.83743	+0.90608600	−0.20296768

From 68 observations 2014 Sept. 6–2015 June 11, mean residual 0″.4.

C/2014 S2 (PANSTARRS)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Dec. 9.80271 TT				
q	2.1006347		(2000.0)	**P**	**Q**
z	+0.0058863	ω	87.80916	−0.02255883	−0.99155531
	±0.0000017	Ω	8.12254	+0.03398156	−0.12842654
e	0.9876351	i	64.67047	+0.99916783	−0.01801919

From 231 observations 2014 Sept. 2–2015 Aug. 27, mean residual 0″.4.

P/2014 V1 (PANSTARRS)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

				MPCW	
T	2015 Jan. 20.62444 TT				
q	2.5687019		(2000.0)	**P**	**Q**
n	0.07642548	ω	177.72742	+0.96192580	+0.25779866
a	5.4993402	Ω	166.26201	−0.25640049	+0.96619504
e	0.5329073	i	22.47030	−0.09464436	+0.00264472
P	12.9				

From 40 observations 2014 Nov. 9–17, mean residual 0″.5.

C/2014 W2 (PANSTARRS)
Epoch 2016 Feb. 22.0 TT = JDT 2457440.5

				MPCW	
T	2016 Mar. 10.48613 TT				
q	2.6701989		(2000.0)	**P**	**Q**
z	+0.0006298	ω	85.01004	−0.10047680	−0.35270747
	±0.0000010	Ω	69.96274	−0.27384542	−0.88913615
e	0.9983183	i	81.99840	+0.95651090	−0.29160649

From 769 observations 2014 Oct. 24–2015 Aug. 27, mean residual 0″.4.

C/2014 W6 (Catalina)
Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

				MPCW	
T	2015 Mar. 19.01392 TT				
q	3.0876034		(2000.0)	**P**	**Q**
z	−0.0004739	ω	209.85650	−0.91499391	+0.27013777
	±0.0000023	Ω	338.13037	+0.20397275	−0.33115325
e	1.0014632	i	53.56539	−0.34811098	−0.90408136

From 122 observations 2014 Nov. 20–2015 July 20, mean residual 0″.5.

C/2014 W11 (PANSTARRS)
Epoch 2015 June 27.0 TT = JDT 2457200.5

				MPCW	
T	2015 June 17.28999 TT				
q	3.4268463		(2000.0)	**P**	**Q**
n	0.03217655	ω	225.63431	−0.93297237	−0.30073933
a	9.7898576	Ω	295.93628	+0.35961590	−0.80238473
e	0.6499595	i	12.70524	−0.01545860	−0.51549452
P	30.6				

From 812 observations 2014 Nov. 3–2015 June 27, mean residual 0″.4.

C/2014 XB_8 (PANSTARRS)
Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

				MPCW	
T	2015 Apr. 5.63130 TT				
q	3.0102736		(2000.0)	**P**	**Q**
z	+0.0010831	ω	351.44919	+0.70673497	+0.63781283
	±0.0000095	Ω	37.46611	+0.67522340	−0.73726194
e	0.9967397	i	149.78311	+0.21118486	+0.22279950

From 46 observations 2014 Dec. 15–2015 July 15, mean residual 0″.4.

C/2015 A1 (PANSTARRS)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Mar. 13.05393 TT				
q	1.9955066		(2000.0)	**P**	**Q**
n	0.01091965	ω	244.87789	−0.45074271	+0.83348822
a	20.1216519	Ω	341.08610	+0.34981431	−0.16444110
e	0.9008279	i	80.36581	−0.82125572	−0.52750025
P	90.3				

From 54 observations 2015 Jan. 8–Aug. 25, mean residual 0″.4.

C/2015 C2 (SWAN)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Mar. 4.56511 TT				
q	0.7113753		(2000.0)	**P**	**Q**
z	+0.0021074	ω	334.13353	+0.55798327	+0.33688669
	±0.0000092	Ω	49.52953	+0.82143247	−0.09436705
e	0.9985009	i	94.50104	−0.11791255	+0.93680426

From 121 observations 2015 Feb. 25–July 20, mean residual 0″.6.

P/2015 F1 (PANSTARRS)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Mar. 14.91753 TT				
q	2.5415909		(2000.0)	**P**	**Q**
n	0.14917943	ω	187.12840	−0.67493455	+0.73719506
a	3.5209789	Ω	40.43002	−0.67455144	−0.59901037
e	0.2781579	i	2.80443	−0.29907141	−0.31261801
P	6.61				

From 194 observations 2015 Mar. 21–Aug. 16, mean residual 0″.5.

C/2015 F2 (Polonia)
Epoch 2015 May 18.0 TT = JDT 2457160.5
T 2015 Apr. 28.82374 TT MPCW

				P	Q
q	1.2105505		(2000.0)		
z	+0.0260755	ω	352.03416	−0.24892297	+0.84343920
	±0.0000000	Ω	262.55150	−0.86003631	−0.41854026
e	0.9684343	i	28.69368	−0.44539297	+0.33680018

From 265 observations 2015 Mar. 23–July 14, mean residual 0″.6.

C/2015 F3 (SWAN)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5
T 2015 Mar. 9.35613 TT MPCW

				P	Q
q	0.8344515		(2000.0)		
z	+0.0042579	ω	57.56668	+0.33002125	−0.79900633
	±0.0000417	Ω	31.63895	+0.12489559	−0.49086158
e	0.9964470	i	73.38679	+0.93567466	+0.34733816

From 283 observations 2015 Mar. 24–May 28, mean residual 0″.8.

C/2015 F4 (Jacques)
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5
T 2015 Aug. 10.86265 TT MPCW

				P	Q
q	1.6439233		(2000.0)		
z	+0.0085973	ω	36.34632	+0.59749462	+0.34811817
	±0.0000023	Ω	285.95810	−0.78897034	+0.41617026
e	0.9858667	i	48.70490	+0.14326892	+0.84000955

From 1440 observations 2015 Mar. 27–Aug. 26, mean residual 0″.5.

C/2015 F5 (SWAN-Xingming)
Epoch 2015 Apr. 8.0 TT = JDT 2457120.5
T 2015 Mar. 28.09968 TT MPCW

				P	Q
q	0.3460061		(2000.0)		
n	0.01606669	ω	13.39318	+0.10678110	−0.86691337
a	15.5543446	Ω	287.73903	−0.95284471	−0.22911781
e	0.9777550	i	149.25673	−0.28405061	+0.44268074
P	61.3				

From 187 observations 2015 Apr. 5–May 18, mean residual 0″.8.

C/2015 GX (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5
T 2015 Aug. 26.65874 TT MPCW

				P	Q
q	1.9717794		(2000.0)		
n	0.01512931	ω	108.95627	+0.18045513	+0.53666286
a	16.1903671	Ω	235.51586	−0.12834666	+0.84371514
e	0.8782128	i	90.25472	+0.97517336	+0.01173581
P	65.1				

From 123 observations 2015 Apr. 8–Aug. 12, mean residual 0″.4.

C/2015 H1 (Bressi)
Epoch 2015 Apr. 8.0 TT = JDT 2457120.5
T 2015 Mar. 28.62153 TT MPCW

				P	Q
q	1.9263529		(2000.0)		
n	0.00531065	ω	21.75755	+0.60708806	−0.71027279
a	32.5365187	Ω	325.80436	−0.78993038	−0.58814270
e	0.9407941	i	140.65562	−0.08633704	+0.38678253
P	186				

From 175 observations 2015 Apr. 20–July 27, mean residual 0″.6.

C/2015 H2 (PANSTARRS)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Sept. 13.26336 TT MPCW

				P	Q
q	4.9674123		(2000.0)		
z	−0.0006154	ω	287.90174	+0.17530856	+0.98041434
	±0.0000429	Ω	350.69264	−0.55230512	+0.02247380
e	1.0030569	i	33.70524	−0.81500059	+0.19565952

From 51 observations 2015 Apr. 20–Aug. 25, mean residual 0″.4.

C/2015 J1 (PANSTARRS)
Epoch 2014 July 2.0 TT = JDT 2456840.5
T 2014 June 29.54444 TT MPCW

				P	Q
q	6.0180779		(2000.0)		
z	−0.0004365	ω	315.42513	−0.50640101	−0.57774356
	±0.0001140	Ω	219.98519	−0.18495739	−0.65230330
e	1.0026267	i	95.01147	−0.84222846	+0.49062488

From 42 observations 2015 May 14–July 17, mean residual 0″.4.

C/2015 J2 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5
T 2015 Sept. 8.87338 TT MPCW

				P	Q
q	4.3204433		(2000.0)		
z	+0.0040426	ω	203.68300	−0.18127294	+0.95153283
	±0.0000050	Ω	56.75539	−0.84815152	−0.02339399
e	0.9825343	i	17.28135	−0.49777417	−0.30665614

From 77 observations 2015 Mar. 21–Aug. 25, mean residual 0″.4.

P/2015 J3 (NEOWISE)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5
T 2015 Mar. 3.76290 TT MPCW

				P	Q
q	1.4940837		(2000.0)		
n	0.16077270	ω	129.29155	−0.48195319	+0.86626137
a	3.3496120	Ω	111.42136	−0.84111768	−0.41534608
e	0.5539532	i	8.12541	−0.24544283	−0.27763083
P	6.13				

From 103 observations 2015 May 15–Aug. 25, mean residual 0″.5.

C/2015 K1 (MASTER)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5
T 2014 Oct. 13.62346 TT MPCW

				P	Q
q	2.5576418		(2000.0)		
z	+0.0054418	ω	280.20481	+0.25388690	+0.96621888
	±0.0000270	Ω	5.18095	−0.57689363	+0.18803114
e	0.9860818	i	29.37885	−0.77636021	+0.17625369

From 240 observations 2015 May 17–Aug. 25, mean residual 0″.5.

C/2015 K4 (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 1.76839 TT				
q	2.0076161		(2000.0)	**P**	**Q**
z	+0.0000876	ω	357.54017	−0.33591012	+0.14559086
	±0.0001331	Ω	250.77055	−0.84647333	−0.47997007
e	0.9998240	i	80.25169	−0.41309478	+0.86511966

From 112 observations 2015 May 24–July 14, mean residual 0″.6.

P/2015 K5 (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 June 6.43243 TT				
q	2.9861781		(2000.0)	**P**	**Q**
n	0.05689249	ω	106.01050	−0.33486182	+0.82225135
a	6.6952390	Ω	134.26659	−0.89854826	−0.42568909
e	0.5539848	i	39.98798	+0.28368747	−0.37774531
P	17.3				

From 55 observations 2015 May 11–July 14, mean residual 0″.4.

C/2015 LC$_2$ (PANSTARRS)

				MPCW	
T	2015 May 3.15399 TT				
q	5.8901868		(2000.0)	**P**	**Q**
		ω	341.97889	−0.67521338	−0.26643921
		Ω	223.57134	−0.49182622	−0.53232055
e	1.0	i	93.70001	−0.54972162	+0.80352037

From 40 observations 2015 June 7–Aug. 12.

C/2015 M1 (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 15.68190 TT				
q	2.0916030		(2000.0)	**P**	**Q**
z	+0.0025926	ω	163.98242	+0.02509226	+0.56006435
	±0.0000663	Ω	100.29160	−0.98447722	+0.15777793
e	0.9945773	i	57.31047	−0.17370950	−0.81328596

From 63 observations 2015 June 20–Aug. 21, mean residual 0″.4.

P/2015 M2 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Sept. 9.14303 TT				
q	5.9181958		(2000.0)	**P**	**Q**
n	0.05111234	ω	225.37953	+0.66823490	+0.74071646
a	7.1909381	Ω	86.68356	−0.66140337	+0.63414816
e	0.1769925	i	3.97994	−0.34059903	+0.22179997
P	19.3				

From 96 observations 2015 June 28–Aug. 25, mean residual 0″.4.

C/2015 M3 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Aug. 26.27125 TT				
q	3.5522626		(2000.0)	**P**	**Q**
z	+0.0075008	ω	123.77113	+0.24106286	+0.80073400
	±0.0001009	Ω	143.09413	−0.85674619	−0.08986858
e	0.9733553	i	65.95025	+0.45593274	−0.59224040

From 118 observations 2015 June 29–Aug. 6, mean residual 0″.6.

C/2015 O1 (PANSTARRS)

				MPCW	
T	2018 Feb. 18.65161 TT				
q	3.7257790		(2000.0)	**P**	**Q**
		ω	89.62101	−0.52099329	−0.50128266
		Ω	299.85624	−0.59822972	+0.79177155
e	1.0	i	127.19524	+0.60884086	+0.34901792

From 73 observations 2015 July 19–Aug. 22.

C/2015 P3 (SWAN)
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5

				MPCW	
T	2015 July 27.79156 TT				
q	0.7151701		(2000.0)	**P**	**Q**
z	+0.0047831	ω	132.86351	−0.40815783	+0.33484972
	±0.0007657	Ω	88.15394	−0.86012217	−0.45281703
e	0.9965793	i	58.18174	+0.30593633	−0.82633674

From 118 observations 2015 Aug. 9–25, mean residual 0″.8.

P/2015 P4 (PANSTARRS)
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5

				MPCW	
T	2016 Jan. 19.01508 TT				
q	2.5252494		(2000.0)	**P**	**Q**
n	0.06588185	ω	280.81046	+0.89119563	−0.42930803
a	6.0714469	Ω	104.74609	+0.45234898	+0.81691822
e	0.5840778	i	8.71381	+0.03392283	+0.38514833
P	15.0				

From 30 observations 2015 July 24–Aug. 26, mean residual 0″.3.

P/2015 Q1 (Scotti)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Sept. 7.08373 TT				
q	1.7306966		(2000.0)	**P**	**Q**
n	0.18191868	ω	197.95089	+0.76740791	−0.62398149
a	3.0847350	Ω	202.72592	+0.62505273	+0.77929855
e	0.4389480	i	22.43242	+0.14280820	−0.05780031
P	5.42				

From 35 observations 2015 Aug. 18–26, mean residual 0″.5.

61P/Shajn-Schaldach
Epoch 2008 Sept. 11.0 TT = JDT 2454720.5

				MPCW	
T	2008 Sept. 6.07599 TT				
q	2.1080163		(2000.0)	**P**	**Q**
n	0.13985669	ω	221.62613	+0.90716665	−0.41967088
a	3.6757606	Ω	163.11237	+0.40840478	+0.86080591
e	0.4265088	i	6.00974	+0.10126302	+0.28790545
P	7.05				

From 791 observations 2000 Apr. 22–2015 Aug. 25, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.62$, $A_2 = -0.2627$.

151P/Helin
Epoch 2001 Sept. 8.0 TT = JDT 2452160.5

				MPCW	
T	2001 Sept. 23.72623 TT				
q	2.5308494		(2000.0)	**P**	**Q**
n	0.07009059	ω	215.42369	+0.99866860	+0.01650881
a	5.8258983	Ω	143.53639	+0.00085962	+0.94194986
e	0.5655864	i	4.71694	−0.05157802	+0.33534746
P	14.1				

From 146 observations 1987 Sept. 17–2015 Aug. 22, mean residual 0″.6.

157P/Tritton
Epoch 2010 Feb. 13.0 TT = JDT 2455240.5

				MPCW	
T	2010 Feb. 20.52896 TT				
q	1.3601808		(2000.0)	**P**	**Q**
n	0.15655883	ω	148.74174	+0.01644665	−0.99384149
a	3.4094501	Ω	300.10867	+0.88922705	+0.06465068
e	0.6010557	i	7.27752	+0.45717038	−0.08999657
P	6.30				

From 1100 observations 2003 Oct. 6–2015 Aug. 20, mean residual 0″.9.
Nongravitational parameters $A_1 = +1.55$, $A_2 = -0.0003$.

218P/LINEAR
Epoch 2009 June 18.0 TT = JDT 2455000.5

				MPCW	
T	2009 June 22.28949 TT				
q	1.7014444		(2000.0)	**P**	**Q**
n	0.16161808	ω	10.60634	−0.54617700	+0.80635794
a	3.3379212	Ω	226.74364	−0.78955303	−0.58603704
e	0.4902683	i	18.15154	−0.27981547	+0.07967091
P	6.10				

From 500 observations 2003 Apr. 29–2015 Aug. 21, mean residual 0″.7.

290P/Jäger
Epoch 2014 Mar. 4.0 TT = JDT 2456720.5

				MPCW	
T	2014 Mar. 12.47584 TT				
q	2.1562489		(2000.0)	**P**	**Q**
n	0.06483842	ω	180.72438	−0.56075941	−0.78185639
a	6.1364112	Ω	303.42398	+0.76128809	−0.35746977
e	0.6486140	i	19.05539	+0.32556003	−0.51079933
P	15.2				

From 3640 observations 1998 Oct. 24–2015 Apr. 24, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.16$, $A_2 = -0.5894$.

299P/Catalina-PANSTARRS
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Feb. 23.28100 TT				
q	3.1395429		(2000.0)	**P**	**Q**
n	0.10774805	ω	323.50984	−0.56092327	+0.80765697
a	4.3738421	Ω	271.68141	−0.71001634	−0.58226315
e	0.2822002	i	10.47984	−0.42572512	−0.09305827
P	9.15				

From 234 observations 1987 Jan. 31–2015 Aug. 16, mean residual 0″.5.

308P/Lagerkvist-Carsenty
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 7.36160 TT				
q	4.2257244		(2000.0)	**P**	**Q**
n	0.05763694	ω	334.05921	+0.79524293	−0.60158639
a	6.6374631	Ω	63.13048	+0.56993050	+0.69934026
e	0.3633525	i	4.84760	+0.20680402	+0.38602723
P	17.1				

From 234 observations 1997 Oct. 5–2015 July 26, mean residual 0″.6.

318P/McNaught-Hartley
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

				MPCW	
T	2015 Oct. 22.47421 TT				
q	2.4482476		(2000.0)	**P**	**Q**
n	0.04783734	ω	313.22415	+0.96093372	+0.21097163
a	7.5155032	Ω	35.72485	−0.06074913	+0.79227633
e	0.6742404	i	17.86844	−0.27002949	+0.57252877
P	20.6				

From 162 observations 1994 July 6–2015 Aug. 22, mean residual 0″.6.

319P/Catalina-McNaught
Epoch 2015 June 27.0 TT = JDT 2457200.5

				MPCW	
T	2015 July 1.75524 TT				
q	1.1967316		(2000.0)	**P**	**Q**
n	0.14579358	ω	203.66534	+0.69460086	+0.67740102
a	3.5752832	Ω	111.36354	−0.61152378	+0.73329938
e	0.6652764	i	15.07378	−0.37890409	+0.05830846
P	6.76				

From 254 observations 2008 May 2–2015 Aug. 27, mean residual 0″.5.

320P/McNaught
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5

				MPCW	
T	2015 Aug. 7.30996 TT				
q	0.9770112		(2000.0)	**P**	**Q**
n	0.18082524	ω	0.74229	+0.44914894	+0.89014992
a	3.0971579	Ω	295.94953	−0.82017020	+0.37668611
e	0.6845459	i	4.89972	−0.35438126	+0.25639949
P	5.45				

From 82 observations 2004 Sept. 2–2015 Aug. 15, mean residual 0″.5.

324P/La Sagra
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Nov. 29.90242 TT				
q	2.6198418		(2000.0)	**P**	**Q**
n	0.18093347	ω	58.55679	+0.80011566	+0.47592241
a	3.0959227	Ω	270.65009	−0.59422627	+0.71199383
e	0.1537767	i	21.41643	+0.08191499	+0.51629704
P	5.45				

From 398 observations 2010 Aug. 13–2015 July 17, mean residual 0″.5.

325P/Yang-Gao
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5
T 2015 Aug. 15.13746 TT MPCW

				P	Q
q	1.4310882		(2000.0)		
n	0.14909953	ω	343.56532	−0.47024946	+0.83675227
a	3.5222367	Ω	257.62549	−0.77394417	−0.54376745
e	0.5936990	i	16.69207	−0.42411775	+0.06451827
P	6.61				

From 1057 observations 2009 June 15–2015 Aug. 4, mean residual 0″.5.

326P/Hill
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5
T 2015 Oct. 22.81777 TT MPCW

				P	Q
q	2.7797463		(2000.0)		
n	0.11996336	ω	278.86994	+0.94640551	−0.32017578
a	4.0716487	Ω	99.81216	+0.31068267	+0.86651891
e	0.3172922	i	2.47050	+0.08827738	+0.38292616
P	8.22				

From 81 observations 1990 Sept. 24–2015 Aug. 26, mean residual 0″.5.

327P/Van Ness
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5
T 2015 Dec. 12.41604 TT MPCW

				P	Q
q	1.5603047		(2000.0)		
n	0.14631101	ω	185.09371	+0.99805976	−0.00375391
a	3.5668489	Ω	173.96155	−0.00991149	+0.97587366
e	0.5625538	i	36.21403	−0.06146934	−0.21830372
P	6.74				

From 60 observations 2002 Aug. 17–2015 Aug. 18, mean residual 0″.6.

Neptune II (Nereid)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	110.17133		(2000.0)		
n	0.99978991	ω	296.66935	−0.23941102	+0.96922060
a	0.0368557	Ω	319.34527	−0.85655460	−0.23867415
e	0.7413625	i	5.05382	−0.45716144	−0.06038272
P	360.08 d	H	4.4	G 0.15	

From 714 observations 1950 July 18–2015 Aug. 16, mean residual 0″.45.

Uranus XVI (Caliban)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	294.66253		(2000.0)		
n	0.62148464	ω	342.53671	−0.96974189	−0.23814198
a	0.0478871	Ω	175.21248	−0.05997628	+0.44581151
e	0.0771431	i	139.90814	−0.23665060	+0.86286760
P	579.26 d	H	9.0	G 0.15	

From 138 observations 1997 Sept. 6–2015 Aug. 22, mean residual 0″.33.

Uranus XVII (Sycorax)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	48.07526		(2000.0)		
n	0.28037456	ω	16.25325	−0.43500243	−0.78381714
a	0.0814104	Ω	258.56596	−0.86826628	+0.23476982
e	0.4893523	i	153.11842	−0.23850904	+0.57490332
P	1284.00 d	H	7.4	G 0.15	

From 340 observations 1984 June 2–2015 Aug. 22, mean residual 0″.43.

Uranus XVIII (Prospero)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	185.20356		(2000.0)		
n	0.18289374	ω	182.13537	−0.76154165	+0.53764214
a	0.1082363	Ω	321.35642	+0.60289479	+0.79259444
e	0.3661795	i	144.57898	+0.23784907	−0.28763692
P	1968.36 d	H	10.5	G 0.15	

From 104 observations 1999 July 18–2010 Sept. 8, mean residual 0″.32.

Uranus XIX (Setebos)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	21.86217		(2000.0)		
n	0.16216566	ω	0.50286	−0.28887515	−0.80739442
a	0.1172735	Ω	253.63365	−0.88022808	+0.01266702
e	0.5355449	i	147.57584	−0.37649657	+0.58987609
P	2219.95 d	H	10.7	G 0.15	

From 57 observations 1999 July 18–2009 Aug. 19, mean residual 0″.39.

Uranus XXI (Trinculo)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	19.45496		(2000.0)		
n	0.48045519	ω	162.45477	+0.80097760	+0.59348213
a	0.0568509	Ω	199.50269	+0.51708171	−0.61940277
e	0.2075350	i	166.34251	+0.30176380	−0.51392526
P	749.29 d	H	12.7	G 0.15	

From 33 observations 2001 Aug. 13–2010 Sept. 8, mean residual 0″.31.

Uranus XXIII (Margaret)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	123.06855		(2000.0)		
n	0.21763777	ω	71.72851	+0.06022889	−0.95124189
a	0.0963865	Ω	22.75536	+0.31651479	−0.26921948
e	0.8120551	i	51.45189	+0.94667358	+0.15053150
P	1654.12 d	H	12.7	G 0.15	

From 26 observations 2001 Aug. 13–2010 Sept. 8, mean residual 0″.35.

Uranus XXIV (Ferdinand)
Epoch 2015 June 27.0 TT = JDT 2457200.5 MPC

				P	Q
M	36.95158		(2000.0)		
n	0.12879709	ω	162.96870	+0.42295335	+0.89253027
a	0.1367419	Ω	228.25462	+0.80502239	−0.29080322
e	0.3867842	i	167.89005	+0.41599209	−0.34470742
P	2795.09 d	H	12.5	G 0.15	

From 24 observations 2001 Aug. 13–2010 Sept. 8, mean residual 0″.47.

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*.

(439831)	1994 RD_{7}	1994 09 12	691	Spacewatch
(439832)	1995 OO_{5}	1995 07 22	691	Spacewatch
(439833)	1995 SS_{73}	1995 09 29	691	Spacewatch
(439834)	1995 UV_{42}	1995 10 24	691	Spacewatch
(439835)	1995 WY_{40}	1995 11 26	691	Spacewatch
(439836)	1996 TX_{51}	1996 10 05	809	Elst, E. W.
(439837)	1997 EU_{9}	1997 03 03	691	Spacewatch
(439838)	1997 GZ_{30}	1997 04 10	691	Spacewatch
(439839)	1997 KY_{1}	1997 05 28	691	Spacewatch
(439840)	1997 SB_{33}	1997 09 29	691	Spacewatch
(439841)	1997 TB_{20}	1997 10 03	691	Spacewatch
(439842)	1998 KL_{10}	1998 05 19	691	Spacewatch
(439843)	1998 QR_{29}	1998 08 23	327	Beijing Schmidt CCD Asteroid Program
(439844)	1998 RF_{26}	1998 09 14	704	LINEAR
(439845)	1998 RJ_{54}	1998 09 14	704	LINEAR
(439846)	1998 SL_{6}	1998 09 20	691	Spacewatch
(439847)	1998 SY_{7}	1998 09 20	691	Spacewatch
(439848)	1998 SF_{110}	1998 09 26	704	LINEAR
(439849)	1998 TB_{3}	1998 10 14	703	CSS
(439850)	1998 TK_{3}	1998 10 14	704	LINEAR
(439851)	1998 WP_{25}	1998 11 16	691	Spacewatch
(439852)	1998 WX_{29}	1998 11 24	691	Spacewatch
(439853)	1998 XD_{4}	1998 12 08	691	Spacewatch
(439854)	1998 XA_{5}	1998 12 12	704	LINEAR
(439855)	1998 XF_{7}	1998 12 08	691	Spacewatch
(439856)	1998 XR_{98}	1998 12 13	691	Spacewatch
(439857)	1998 YJ_{13}	1998 11 14	691	Spacewatch
(439858)	1999 ON_{4}	1999 07 19	568	Mauna Kea
(439859)	1999 RF_{9}	1999 09 04	691	Spacewatch
(439860)	1999 SZ_{20}	1999 09 30	691	Spacewatch
(439861)	1999 SW_{22}	1999 09 30	691	Spacewatch
(439862)	1999 TT_{45}	1999 10 03	691	Spacewatch
(439863)	1999 TH_{50}	1999 10 04	691	Spacewatch
(439864)	1999 TL_{54}	1999 10 06	691	Spacewatch
(439865)	1999 TB_{72}	1999 10 09	691	Spacewatch
(439866)	1999 TN_{296}	1999 10 02	691	Spacewatch
(439867)	1999 VC_{85}	1999 11 06	691	Spacewatch
(439868)	1999 VA_{102}	1999 11 09	704	LINEAR
(439869)	1999 VZ_{106}	1999 11 09	704	LINEAR
(439870)	1999 VL_{110}	1999 11 09	704	LINEAR
(439871)	1999 VC_{120}	1999 11 03	691	Spacewatch
(439872)	1999 VA_{122}	1999 10 14	691	Spacewatch
(439873)	1999 VP_{142}	1999 11 10	691	Spacewatch
(439874)	1999 VB_{153}	1999 11 11	691	Spacewatch
(439875)	1999 VX_{165}	1999 11 14	704	LINEAR
(439876)	1999 VM_{196}	1999 11 01	703	CSS
(439877)	1999 XM_{141}	1999 12 13	704	LINEAR
(439878)	1999 XZ_{145}	1999 12 07	691	Spacewatch
(439879)	1999 XC_{146}	1999 11 29	691	Spacewatch
(439880)	1999 XV_{223}	1999 12 13	691	Spacewatch
(439881)	1999 XE_{250}	1999 12 07	704	LINEAR
(439882)	1999 YZ_{12}	1999 12 14	691	Spacewatch
(439883)	2000 AB_{4}	2000 01 03	704	LINEAR
(439884)	2000 AT_{221}	2000 01 08	691	Spacewatch
(439885)	2000 CD_{32}	2000 02 04	704	LINEAR
(439886)	2000 KQ_{1}	2000 05 26	704	LINEAR
(439887)	2000 MO_{6}	2000 06 30	608	NEAT
(439888)	2000 NO_{1}	2000 07 03	691	Spacewatch
(439889)	2000 PG_{5}	2000 08 02	704	LINEAR
(439890)	2000 QA_{133}	2000 08 26	704	LINEAR
(439891)	2000 RG_{84}	2000 09 02	699	LONEOS
(439892)	2000 SF_{14}	2000 09 23	704	LINEAR
(439893)	2000 SN_{184}	2000 09 20	608	NEAT
(439894)	2000 SZ_{207}	2000 09 24	704	LINEAR
(439895)	2000 ST_{249}	2000 09 24	704	LINEAR
(439896)	2000 SK_{326}	2000 09 29	691	Spacewatch
(439897)	2000 TU_{1}	2000 10 02	704	LINEAR
(439898)	2000 TG_{2}	2000 10 04	704	LINEAR
(439899)	2000 UA_{13}	2000 10 03	704	LINEAR
(439900)	2000 WB_{5}	2000 11 19	704	LINEAR
(439901)	2000 WK_{24}	2000 11 20	704	LINEAR
(439902)	2000 WR_{45}	2000 11 21	704	LINEAR
(439903)	2000 WR_{56}	2000 11 21	704	LINEAR
(439904)	2000 WO_{68}	2000 11 02	701	LINEAR
(439905)	2000 WY_{136}	2000 11 20	704	LINEAR
(439906)	2000 WB_{192}	2000 10 01	699	LINEAR
(439907)	2000 XH_{11}	2000 12 01	704	LINEAR
(439908)	2000 XH_{47}	2000 12 15	704	LINEAR
(439909)	2000 YX_{133}	2000 12 31	691	Spacewatch
(439910)	2001 AD_{44}	2000 12 05	704	LINEAR
(439911)	2001 DY_{8}	2001 02 16	704	LINEAR
(439912)	2001 FD_{87}	2001 03 19	699	LINEAR
(439913)	2001 FM_{119}	2001 03 18	704	LINEAR
(439914)	2001 OF_{30}	2001 07 19	644	NEAT
(439915)	2001 OT_{77}	2001 07 26	644	NEAT
(439916)	2001 PP_{32}	2001 08 10	644	NEAT
(439917)	2001 QQ_{69}	2001 08 17	704	LINEAR
(439918)	2001 QX_{115}	2001 08 17	704	LINEAR
(439919)	2001 QF_{132}	2001 08 20	704	LINEAR
(439920)	2001 QK_{171}	2001 08 25	704	LINEAR
(439921)	2001 QM_{172}	2001 08 25	704	LINEAR
(439922)	2001 QK_{211}	2001 08 23	699	LONEOS
(439923)	2001 QO_{216}	2001 08 23	699	LONEOS
(439924)	2001 QY_{225}	2001 08 24	699	LONEOS
(439925)	2001 QX_{255}	2001 08 25	704	LINEAR
(439926)	2001 QY_{264}	2001 08 26	608	NEAT

(439927)	2001 QM_{290}	2001 08 16	704	LINEAR
(439928)	2001 RH_{12}	2001 09 07	704	LINEAR
(439929)	2001 RF_{24}	2001 09 07	704	LINEAR
(439930)	2001 RK_{29}	2001 09 07	704	LINEAR
(439931)	2001 RT_{46}	2001 09 11	704	LINEAR
(439932)	2001 RW_{59}	2001 09 12	704	LINEAR
(439933)	2001 RE_{129}	2001 09 12	704	LINEAR
(439934)	2001 RY_{145}	2001 09 08	704	LINEAR
(439935)	2001 SY_{34}	2001 09 16	704	LINEAR
(439936)	2001 SS_{37}	2001 09 16	704	LINEAR
(439937)	2001 SB_{38}	2001 09 16	704	LINEAR
(439938)	2001 SM_{38}	2001 09 16	704	LINEAR
(439939)	2001 SX_{77}	2001 09 19	704	LINEAR
(439940)	2001 SK_{121}	2001 09 16	704	LINEAR
(439941)	2001 SH_{127}	2001 08 22	704	Spacewatch
(439942)	2001 SD_{132}	2001 09 16	704	LINEAR
(439943)	2001 SO_{152}	2001 09 17	704	LINEAR
(439944)	2001 SS_{174}	2001 09 16	704	LINEAR
(439945)	2001 SL_{225}	2001 09 11	704	Spacewatch
(439946)	2001 SV_{246}	2001 09 19	704	LINEAR
(439947)	2001 SQ_{290}	2001 09 23	683	Tucker, R. A.
(439948)	2001 SD_{300}	2001 09 20	704	LINEAR
(439949)	2001 SG_{318}	2001 09 20	704	LINEAR
(439950)	2001 SK_{323}	2001 09 25	704	LINEAR
(439951)	2001 SD_{338}	2001 09 20	704	LINEAR
(439952)	2001 SB_{339}	2001 09 21	699	LONEOS
(439953)	2001 TV_{54}	2001 10 14	704	LINEAR
(439954)	2001 TJ_{55}	2001 10 14	704	LINEAR
(439955)	2001 TV_{104}	2001 10 13	704	LINEAR
(439956)	2001 TN_{173}	2001 10 14	704	LINEAR
(439957)	2001 TX_{173}	2001 10 14	704	LINEAR
(439958)	2001 TD_{186}	2001 10 14	704	LINEAR
(439959)	2001 TX_{189}	2001 10 14	704	LINEAR
(439960)	2001 TO_{199}	2001 10 11	704	LINEAR
(439961)	2001 UM_{53}	2001 10 17	704	LINEAR
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(439964)	2001 UC_{148}	2001 10 23	704	LINEAR
(439965)	2001 UF_{149}	2001 10 23	704	LINEAR
(439966)	2001 UO_{159}	2001 10 23	704	LINEAR
(439967)	2001 UY_{197}	2001 10 19	644	NEAT
(439968)	2001 UL_{229}	2001 10 16	644	NEAT
(439969)	2001 VO_{3}	2001 11 11	691	Spacewatch
(439970)	2001 VG_{8}	2001 11 09	704	LINEAR
(439971)	2001 VM_{23}	2001 11 09	704	LINEAR
(439972)	2001 VX_{26}	2001 11 09	704	LINEAR
(439973)	2001 VF_{60}	2001 10 14	704	LINEAR
(439974)	2001 WH_{15}	2001 11 21	704	LINEAR
(439975)	2001 WG_{21}	2001 11 18	704	LINEAR
(439976)	2001 WF_{32}	2001 11 17	704	LINEAR
(439977)	2001 WT_{53}	2001 11 19	704	LINEAR
(439978)	2001 WC_{65}	2001 11 20	704	LINEAR
(439979)	2001 WM_{65}	2001 11 20	704	LINEAR
(439980)	2001 WY_{67}	2001 11 20	704	LINEAR
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(439982)	2001 WG_{87}	2001 11 19	704	LINEAR
(439983)	2001 WP_{91}	2001 11 21	704	LINEAR
(439984)	2001 XK_{51}	2001 11 12	704	Spacewatch
(439985)	2001 XT_{75}	2001 12 11	704	LINEAR
(439986)	2001 XF_{110}	2001 12 11	704	LINEAR
(439987)	2001 XS_{146}	2001 12 14	704	LINEAR
(439988)	2001 XF_{169}	2001 12 14	704	LINEAR
(439989)	2001 XH_{230}	2001 11 09	704	LINEAR
(439990)	2001 XB_{235}	2001 12 15	704	LINEAR
(439991)	2001 YC_{16}	2001 12 17	704	LINEAR
(439992)	2001 YT_{36}	2001 12 18	704	LINEAR
(439993)	2001 YU_{92}	2001 12 17	291	Spacewatch
(439994)	2002 AK_{2}	2002 01 05	704	LINEAR
(439995)	2002 AW_{73}	2002 01 08	704	LINEAR
(439996)	2002 AH_{88}	2002 01 09	704	LINEAR
(439997)	2002 AA_{109}	2002 01 09	704	LINEAR
(439998)	2002 CM_{4}	2002 02 07	704	LINEAR
(439999)	2002 CX_{11}	2002 02 07	704	LINEAR
(440000)	2002 CM_{88}	2002 01 14	704	Spacewatch
(440001)	2002 CS_{149}	2002 02 10	704	LINEAR
(440002)	2002 CJ_{191}	2002 02 10	704	LINEAR
(440003)	2002 DE_{15}	2002 02 16	644	NEAT
(440004)	2002 EQ_{53}	2002 03 13	704	LINEAR
(440005)	2002 ER_{62}	2002 02 20	704	Spacewatch
(440006)	2002 EU_{113}	2002 03 10	691	Spacewatch
(440007)	2002 GS_{174}	2002 04 11	704	LINEAR
(440008)	2002 HT_{10}	2002 04 22	644	NEAT
(440009)	2002 JP_{2}	2002 05 04	704	LINEAR
(440010)	2002 JZ_{144}	2002 05 13	644	NEAT
(440011)	2002 KL_{16}	2002 05 18	644	NEAT
(440012)	2002 LE_{27}	2002 06 08	704	LINEAR
(440013)	2002 LF_{36}	2002 06 09	704	LINEAR
(440014)	2002 LE_{48}	2002 06 12	644	NEAT
(440015)	2002 MK_{6}	2002 06 22	644	NEAT
(440016)	2002 NR_{1}	2002 07 05	291	Spacewatch
(440017)	2002 NP_{7}	2002 07 09	704	LINEAR
(440018)	2002 NP_{58}	2002 07 03	644	NEAT
(440019)	2002 NG_{69}	2002 07 12	644	NEAT
(440020)	2002 NO_{73}	2002 07 06	644	NEAT
(440021)	2002 OL_{12}	2002 07 25	644	NEAT
(440022)	2002 OZ_{16}	2002 07 18	704	LINEAR
(440023)	2002 OZ_{17}	2002 07 09	704	LINEAR
(440024)	2002 OS_{25}	2002 07 21	644	NEAT
(440025)	2002 OF_{27}	2002 07 29	644	NEAT
(440026)	2002 PP_{1}	2002 08 04	644	NEAT
(440027)	2002 PP_{7}	2002 08 06	644	NEAT
(440028)	2002 PG_{19}	2002 08 06	644	NEAT
(440029)	2002 PT_{25}	2002 08 06	644	NEAT
(440030)	2002 PB_{43}	2002 08 11	735	Needville

(440031)	2002 PM_{93}	2002 08 14	644	NEAT
(440032)	2002 PO_{108}	2002 08 13	704	LINEAR
(440033)	2002 PZ_{121}	2002 08 13	699	LONEOS
(440034)	2002 PW_{122}	2002 08 15	644	NEAT
(440035)	2002 PV_{139}	2002 08 13	704	LINEAR
(440036)	2002 PX_{141}	2002 08 12	704	LINEAR
(440037)	2002 PF_{142}	2002 08 11	704	LINEAR
(440038)	2002 PX_{151}	2002 08 10	807	Buie, M. W.
(440039)	2002 PL_{158}	2002 08 08	644	Hoenig, S. F.
(440040)	2002 PX_{183}	2002 08 07	644	NEAT
(440041)	2002 QN_{15}	2002 08 17	644	NEAT
(440042)	2002 QW_{18}	2002 08 26	644	NEAT
(440043)	2002 QF_{24}	2002 08 29	644	NEAT
(440044)	2002 QM_{56}	2002 08 29	644	Hoenig, S. F.
(440045)	2002 QR_{69}	2002 08 31	644	NEAT
(440046)	2002 QY_{78}	2002 08 29	644	NEAT
(440047)	2002 QZ_{80}	2002 08 19	644	NEAT
(440048)	2002 QX_{107}	2002 08 27	644	NEAT
(440049)	2002 QH_{112}	2002 08 17	644	NEAT
(440050)	2002 QU_{113}	2002 08 27	644	NEAT
(440051)	2002 QZ_{119}	2002 08 30	644	NEAT
(440052)	2002 QL_{139}	2002 08 29	644	NEAT
(440053)	2002 QL_{140}	2002 08 19	644	NEAT
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(440055)	2002 RE_{34}	2002 09 04	699	LONEOS
(440056)	2002 RM_{57}	2002 09 05	699	LONEOS
(440057)	2002 RL_{70}	2002 09 04	644	NEAT
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(440060)	2002 RH_{103}	2002 09 05	704	LINEAR
(440061)	2002 RB_{111}	2002 09 06	704	LINEAR
(440062)	2002 RO_{112}	2002 09 06	704	LINEAR
(440063)	2002 RQ_{116}	2002 09 07	704	LINEAR
(440064)	2002 RW_{184}	2002 09 12	644	NEAT
(440065)	2002 RC_{191}	2002 09 14	608	NEAT
(440066)	2002 RK_{239}	2002 09 14	644	Matson, R.
(440067)	2002 RP_{241}	2002 09 08	608	Matson, R.
(440068)	2002 RS_{250}	2002 09 03	608	NEAT
(440069)	2002 RY_{260}	2002 09 10	644	NEAT
(440070)	2002 RB_{279}	2002 09 04	644	NEAT
(440071)	2002 SV_{1}	2002 09 05	644	LINEAR
(440072)	2002 SG_{14}	2002 09 27	644	NEAT
(440073)	2002 SG_{17}	2002 09 26	644	NEAT
(440074)	2002 SZ_{19}	2002 09 06	644	LINEAR
(440075)	2002 SV_{24}	2002 09 28	644	NEAT
(440076)	2002 SX_{67}	2002 09 26	644	NEAT
(440077)	2002 SL_{69}	2002 09 17	644	NEAT
(440078)	2002 TP_{18}	2002 10 02	704	LINEAR
(440079)	2002 TK_{22}	2002 10 02	704	LINEAR
(440080)	2002 TC_{61}	2002 10 03	599	CINEOS
(440081)	2002 TA_{68}	2002 10 06	704	LINEAR
(440082)	2002 TL_{99}	2002 10 04	644	NEAT
(440083)	2002 TL_{156}	2002 08 16	644	LINEAR
(440084)	2002 TE_{167}	2002 10 03	644	NEAT
(440085)	2002 TM_{174}	2002 09 07	704	LINEAR
(440086)	2002 TK_{189}	2002 09 05	704	LONEOS
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(440088)	2002 TG_{223}	2002 10 07	704	LINEAR
(440089)	2002 TO_{232}	2002 10 06	704	LINEAR
(440090)	2002 TP_{285}	2002 10 10	704	LINEAR
(440091)	2002 TC_{319}	2002 10 05	645	Sloan Digital Sky Survey
(440092)	2002 TH_{350}	2002 10 10	645	Sloan Digital Sky Survey
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(440094)	2002 UR_{51}	2002 10 29	645	Sloan Digital Sky Survey
(440095)	2002 VC_{46}	2002 11 05	704	LINEAR
(440096)	2002 WK_{5}	2002 11 05	644	LINEAR
(440097)	2002 XW	2002 11 14	608	LINEAR
(440098)	2002 XC_{50}	2002 12 10	644	NEAT
(440099)	2002 XO_{69}	2002 12 05	704	LINEAR
(440100)	2002 XP_{120}	2002 12 03	644	NEAT
(440101)	2003 AJ_{17}	2003 01 05	704	LINEAR
(440102)	2003 AK_{23}	2003 01 07	704	LINEAR
(440103)	2003 AP_{67}	2003 01 08	704	LINEAR
(440104)	2003 BL_{11}	2003 01 26	699	LONEOS
(440105)	2003 BY_{37}	2003 01 27	704	LINEAR
(440106)	2003 GJ_{37}	2003 04 06	691	Spacewatch
(440107)	2003 HC_{14}	2003 04 26	599	CINEOS
(440108)	2003 KG_{1}	2003 05 22	691	Spacewatch
(440109)	2003 KR_{5}	2003 04 30	691	Spacewatch
(440110)	2003 QT_{13}	2003 08 22	599	CINEOS
(440111)	2003 RK_{27}	2003 09 05	621	Bickel, W.
(440112)	2003 SL_{24}	2003 09 17	644	NEAT
(440113)	2003 SK_{46}	2003 09 16	699	LONEOS
(440114)	2003 SV_{54}	2003 09 16	699	LONEOS
(440115)	2003 SH_{58}	2003 08 21	699	CINEOS
(440116)	2003 SZ_{75}	2003 09 18	691	Spacewatch
(440117)	2003 SP_{78}	2003 09 19	691	Spacewatch
(440118)	2003 SX_{82}	2003 09 18	691	Spacewatch
(440119)	2003 SC_{107}	2003 09 20	644	NEAT
(440120)	2003 SX_{108}	2003 09 20	644	NEAT
(440121)	2003 SD_{133}	2003 09 20	644	NEAT
(440122)	2003 SX_{156}	2003 09 19	699	LONEOS
(440123)	2003 SF_{183}	2003 09 21	691	Spacewatch
(440124)	2003 SH_{224}	2003 09 25	621	Bickel, W.
(440125)	2003 SE_{254}	2003 09 27	291	Spacewatch
(440126)	2003 SV_{274}	2003 09 28	691	Spacewatch
(440127)	2003 SG_{281}	2003 09 18	599	CINEOS
(440128)	2003 SX_{297}	2003 09 18	608	NEAT
(440129)	2003 SN_{302}	2003 09 17	644	NEAT
(440130)	2003 SE_{327}	2003 09 18	691	Spacewatch
(440131)	2003 SR_{329}	2003 09 22	291	Spacewatch
(440132)	2003 SS_{332}	2003 09 29	645	Sloan Digital Sky Survey
(440133)	2003 SC_{420}	2003 09 28	645	Sloan Digital Sky Survey
(440134)	2003 TG_{9}	2003 10 04	691	Spacewatch

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(440137)	2003 UG_{33}	2003 10 17	291	Spacewatch
(440138)	2003 UR_{60}	2003 10 16	644	NEAT
(440139)	2003 UD_{79}	2003 10 19	644	NEAT
(440140)	2003 UQ_{117}	2003 09 28	A50	LONEOS
(440141)	2003 UE_{122}	2003 09 22	699	LINEAR
(440142)	2003 UE_{125}	2003 10 20	704	LINEAR
(440143)	2003 UN_{154}	2003 10 20	691	Spacewatch
(440144)	2003 UT_{155}	2003 10 20	691	Spacewatch
(440145)	2003 UV_{177}	2003 10 21	644	NEAT
(440146)	2003 UP_{178}	2003 10 21	644	NEAT
(440147)	2003 UB_{180}	2003 10 21	704	LINEAR
(440148)	2003 UH_{211}	2003 10 23	691	Spacewatch
(440149)	2003 UE_{261}	2003 10 26	691	Spacewatch
(440150)	2003 UK_{268}	2003 10 28	704	LINEAR
(440151)	2003 UK_{305}	2003 10 18	691	Spacewatch
(440152)	2003 UG_{316}	2003 10 23	691	Spacewatch
(440153)	2003 UC_{332}	2003 09 18	645	Spacewatch
(440154)	2003 UC_{338}	2003 10 18	291	Spacewatch
(440155)	2003 VJ_4	2003 11 14	644	NEAT
(440156)	2003 VM_4	2003 10 27	735	Spacewatch
(440157)	2003 WM_{26}	2003 11 20	704	LINEAR
(440158)	2003 WH_{28}	2003 11 16	691	Spacewatch
(440159)	2003 WW_{32}	2003 11 18	644	NEAT
(440160)	2003 WE_{33}	2003 11 18	644	NEAT
(440161)	2003 WA_{39}	2003 10 25	691	Spacewatch
(440162)	2003 WH_{56}	2003 11 20	704	LINEAR
(440163)	2003 WR_{66}	2003 11 19	644	Spacewatch
(440164)	2003 WV_{67}	2003 11 19	691	Spacewatch
(440165)	2003 WU_{108}	2003 11 20	704	LINEAR
(440166)	2003 WG_{114}	2003 11 20	704	LINEAR
(440167)	2003 WP_{122}	2003 11 20	704	LINEAR
(440168)	2003 WD_{143}	2003 11 23	704	LINEAR
(440169)	2003 WL_{186}	2003 11 23	695	Buie, M. W.
(440170)	2003 XW_3	2003 12 01	704	LINEAR
(440171)	2003 YQ_{63}	2003 12 19	704	LINEAR
(440172)	2003 YN_{89}	2003 12 19	704	LINEAR
(440173)	2003 YB_{133}	2003 12 28	704	LINEAR
(440174)	2003 YF_{136}	2003 12 27	291	Spacewatch
(440175)	2003 YH_{145}	2003 12 28	704	LINEAR
(440176)	2003 YB_{163}	2003 12 17	704	LINEAR
(440177)	2004 BM_8	2004 01 17	691	Spacewatch
(440178)	2004 BZ_{33}	2004 01 19	691	Spacewatch
(440179)	2004 BF_{41}	2004 01 22	704	LINEAR
(440180)	2004 BY_{64}	2004 01 22	704	LINEAR
(440181)	2004 BM_{113}	2004 01 28	704	LINEAR
(440182)	2004 CR_6	2004 02 11	291	Spacewatch
(440183)	2004 CU_{37}	2004 02 13	333	Yeung, W. K. Y.
(440184)	2004 CZ_{85}	2003 12 22	691	Spacewatch
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(440187)	2004 CD_{103}	2004 01 30	644	LONEOS
(440188)	2004 CL_{107}	2004 02 14	691	Spacewatch
(440189)	2004 DA_{72}	2004 02 16	691	Spacewatch
(440190)	2004 EH_{38}	2004 03 14	703	CSS
(440191)	2004 FP	2004 03 16	704	LINEAR
(440192)	2004 FV_5	2004 03 20	704	LINEAR
(440193)	2004 FW_{28}	2004 02 18	704	LINEAR
(440194)	2004 FW_{43}	2004 03 16	704	LINEAR
(440195)	2004 FL_{110}	2004 03 25	704	LINEAR
(440196)	2004 FK_{158}	2004 03 17	691	Spacewatch
(440197)	2004 GX	2004 03 29	673	Spacewatch
(440198)	2004 GS_2	2004 04 12	704	LINEAR
(440199)	2004 GP_{39}	2004 04 15	E12	Siding Spring Survey
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(440201)	2004 HM_{41}	2004 04 19	691	Spacewatch
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(440205)	2004 LL_{30}	2004 06 13	691	Spacewatch
(440206)	2004 NX_9	2004 07 09	704	LINEAR
(440207)	2004 NY_{12}	2004 07 11	704	LINEAR
(440208)	2004 NQ_{17}	2004 07 11	704	LINEAR
(440209)	2004 NV_{22}	2004 07 11	704	LINEAR
(440210)	2004 ND_{31}	2004 07 10	703	CSS
(440211)	2004 NZ_{32}	2004 07 15	E12	Siding Spring Survey
(440212)	2004 OB	2004 07 16	704	LINEAR
(440213)	2004 OD_6	2004 07 18	428	Broughton, J.
(440214)	2004 OJ_{10}	2004 07 21	428	Broughton, J.
(440215)	2004 PY_4	2004 08 06	644	NEAT
(440216)	2004 PQ_6	2004 08 06	644	NEAT
(440217)	2004 PT_{10}	2004 08 07	644	NEAT
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(440222)	2004 PC_{56}	2004 08 08	699	LONEOS
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(440224)	2004 PE_{65}	2004 08 10	704	LINEAR
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(440226)	2004 PN_{66}	2004 08 10	599	CINEOS
(440227)	2004 PJ_{74}	2004 08 08	704	LINEAR
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(440230)	2004 PQ_{111}	2004 08 10	704	LINEAR
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(440233)	2004 QS_{15}	2004 08 23	691	Spacewatch
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(440235)	2004 QR_{19}	2004 08 25	704	LINEAR
(440236)	2004 QK_{20}	2004 08 25	704	LINEAR
(440237)	2004 QB_{26}	2004 08 21	703	CSS
(440238)	2004 QV_{28}	2004 08 25	691	Spacewatch

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(440240)	2004 RF_{2}	2004 09 06	704	LINEAR
(440241)	2004 RG_{9}	2004 09 07	734	Eskridge
(440242)	2004 RX_{9}	2004 09 07	704	LINEAR
(440243)	2004 RF_{10}	2004 09 07	704	LINEAR
(440244)	2004 RG_{13}	2004 09 04	644	NEAT
(440245)	2004 RM_{14}	2004 09 06	E12	Siding Spring Survey
(440246)	2004 RY_{14}	2004 09 06	E12	Siding Spring Survey
(440247)	2004 RT_{15}	2004 09 07	704	LINEAR
(440248)	2004 RF_{22}	2004 09 07	691	Spacewatch
(440249)	2004 RM_{22}	2004 09 07	691	Spacewatch
(440250)	2004 RN_{22}	2004 09 07	691	Spacewatch
(440251)	2004 RW_{41}	2004 08 19	644	LINEAR
(440252)	2004 RJ_{46}	2004 09 08	704	LINEAR
(440253)	2004 RR_{64}	2004 09 08	704	LINEAR
(440254)	2004 RV_{68}	2004 09 08	704	LINEAR
(440255)	2004 RD_{71}	2004 09 08	704	LINEAR
(440256)	2004 RR_{80}	2004 09 08	704	LINEAR
(440257)	2004 RG_{81}	2004 09 08	704	LINEAR
(440258)	2004 RR_{82}	2004 09 09	704	LINEAR
(440259)	2004 RB_{88}	2004 09 07	691	Spacewatch
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(440264)	2004 RX_{101}	2004 09 08	704	LINEAR
(440265)	2004 RD_{103}	2004 09 08	644	NEAT
(440266)	2004 RR_{107}	2004 09 09	704	LINEAR
(440267)	2004 RQ_{112}	2004 09 06	704	LINEAR
(440268)	2004 RY_{113}	2004 08 20	644	CSS
(440269)	2004 RO_{114}	2004 09 07	691	Spacewatch
(440270)	2004 RG_{126}	2004 09 07	691	Spacewatch
(440271)	2004 RS_{131}	2004 09 07	691	Spacewatch
(440272)	2004 RR_{138}	2004 09 08	704	LINEAR
(440273)	2004 RO_{143}	2004 09 08	704	LINEAR
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(440275)	2004 RP_{155}	2004 09 10	704	LINEAR
(440276)	2004 RX_{159}	2004 09 10	704	LINEAR
(440277)	2004 RF_{164}	2004 09 10	A44	Ries, W.
(440278)	2004 RL_{169}	2004 09 08	704	LINEAR
(440279)	2004 RW_{170}	2004 08 25	185	Spacewatch
(440280)	2004 RE_{179}	2004 09 10	704	LINEAR
(440281)	2004 RZ_{186}	2004 09 10	704	LINEAR
(440282)	2004 RB_{188}	2004 09 10	704	LINEAR
(440283)	2004 RY_{203}	2004 09 12	691	Spacewatch
(440284)	2004 RR_{204}	2004 09 12	691	Spacewatch
(440285)	2004 RQ_{213}	2004 09 11	704	LINEAR
(440286)	2004 RF_{214}	2004 09 11	704	LINEAR
(440287)	2004 RY_{216}	2004 09 11	704	LINEAR
(440288)	2004 RJ_{217}	2004 09 11	704	LINEAR
(440289)	2004 RY_{217}	2004 09 11	704	LINEAR
(440290)	2004 RS_{220}	2004 09 11	704	LINEAR
(440291)	2004 RR_{224}	2004 09 09	224	Ottmarsheim
(440292)	2004 RY_{224}	2004 09 09	704	LINEAR
(440293)	2004 RV_{227}	2004 09 09	691	Spacewatch
(440294)	2004 RB_{232}	2004 09 09	691	Spacewatch
(440295)	2004 RL_{235}	2004 09 10	704	LINEAR
(440296)	2004 RP_{235}	2004 09 10	691	Spacewatch
(440297)	2004 RN_{247}	2004 09 12	704	LINEAR
(440298)	2004 RA_{258}	2004 08 11	704	LINEAR
(440299)	2004 RA_{270}	2004 09 11	691	Spacewatch
(440300)	2004 RX_{272}	2004 09 11	691	Spacewatch
(440301)	2004 RP_{280}	2004 09 15	691	Spacewatch
(440302)	2004 RY_{285}	2004 09 15	691	Spacewatch
(440303)	2004 RX_{307}	2004 09 13	704	LINEAR
(440304)	2004 RN_{318}	2004 09 12	691	Spacewatch
(440305)	2004 RO_{320}	2004 09 13	704	LINEAR
(440306)	2004 RM_{326}	2004 09 13	644	NEAT
(440307)	2004 RB_{328}	2004 09 15	699	LONEOS
(440308)	2004 RU_{337}	2004 09 15	691	Spacewatch
(440309)	2004 SC_{3}	2004 09 06	691	Siding Spring Survey
(440310)	2004 SR_{3}	2004 09 17	704	LINEAR
(440311)	2004 SO_{34}	2004 09 17	691	Spacewatch
(440312)	2004 SE_{42}	2004 09 18	704	LINEAR
(440313)	2004 SG_{50}	2004 09 22	704	LINEAR
(440314)	2004 ST_{50}	2004 09 22	691	Spacewatch
(440315)	2004 SR_{56}	2004 09 09	699	LINEAR
(440316)	2004 TF_{26}	2004 10 04	691	Spacewatch
(440317)	2004 TE_{33}	2004 10 04	691	Spacewatch
(440318)	2004 TN_{33}	2004 09 15	691	Spacewatch
(440319)	2004 TN_{45}	2004 10 04	691	Spacewatch
(440320)	2004 TC_{46}	2004 10 04	691	Spacewatch
(440321)	2004 TS_{59}	2004 10 05	691	Spacewatch
(440322)	2004 TK_{60}	2004 09 09	699	LINEAR
(440323)	2004 TR_{65}	2004 09 14	699	LONEOS
(440324)	2004 TH_{90}	2004 09 17	691	Spacewatch
(440325)	2004 TV_{96}	2004 10 05	691	Spacewatch
(440326)	2004 TS_{103}	2004 09 16	691	LONEOS
(440327)	2004 TB_{108}	2004 09 17	704	LINEAR
(440328)	2004 TC_{112}	2004 10 07	644	NEAT
(440329)	2004 TW_{115}	2004 10 15	683	Goodricke-Pigott
(440330)	2004 TP_{118}	2004 10 05	644	NEAT
(440331)	2004 TA_{124}	2004 10 07	704	LINEAR
(440332)	2004 TX_{124}	2004 10 07	704	LINEAR
(440333)	2004 TM_{125}	2004 10 07	704	LINEAR
(440334)	2004 TQ_{126}	2004 10 07	704	LINEAR
(440335)	2004 TD_{129}	2004 09 17	704	LINEAR
(440336)	2004 TR_{162}	2004 10 06	691	Spacewatch
(440337)	2004 TW_{181}	2004 09 12	691	LINEAR
(440338)	2004 TJ_{187}	2004 09 24	691	Spacewatch
(440339)	2004 TL_{196}	2004 09 17	691	Spacewatch
(440340)	2004 TM_{197}	2004 10 07	691	Spacewatch
(440341)	2004 TJ_{209}	2004 10 08	691	Spacewatch
(440342)	2004 TN_{213}	2004 10 09	691	Spacewatch

(440343)	2004 TB_{224}	2004 09 18	691	LINEAR
(440344)	2004 TG_{226}	2004 10 08	691	Spacewatch
(440345)	2004 TU_{227}	2004 10 08	691	Spacewatch
(440346)	2004 TN_{244}	2004 09 10	691	Spacewatch
(440347)	2004 TH_{265}	2004 10 09	691	Spacewatch
(440348)	2004 TZ_{275}	2004 10 09	691	Spacewatch
(440349)	2004 TL_{295}	2004 10 10	691	Spacewatch
(440350)	2004 TC_{296}	2004 10 10	691	Spacewatch
(440351)	2004 TE_{297}	2004 10 11	691	Spacewatch
(440352)	2004 TC_{298}	2004 09 11	699	LINEAR
(440353)	2004 TR_{298}	2004 10 13	291	Spacewatch
(440354)	2004 TR_{350}	2004 10 10	695	Buie, M. W.
(440355)	2004 TB_{354}	2004 10 11	695	Buie, M. W.
(440356)	2004 TW_{361}	2004 10 13	691	Spacewatch
(440357)	2004 VO_{2}	2004 10 06	691	Spacewatch
(440358)	2004 VY_{10}	2004 11 03	703	CSS
(440359)	2004 VC_{77}	2004 10 09	703	Spacewatch
(440360)	2004 XC_{18}	2004 12 07	704	LINEAR
(440361)	2004 XA_{36}	2004 12 09	G92	Jarnac
(440362)	2004 XX_{39}	2004 12 10	691	Spacewatch
(440363)	2004 XU_{51}	2004 11 20	704	Spacewatch
(440364)	2004 XR_{57}	2004 12 10	691	Spacewatch
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(440367)	2004 XL_{87}	2004 12 09	703	CSS
(440368)	2004 XP_{103}	2004 12 09	703	CSS
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(440370)	2005 AJ_{18}	2005 01 06	704	LINEAR
(440371)	2005 AG_{23}	2005 01 07	704	LINEAR
(440372)	2005 AJ_{30}	2005 01 09	703	CSS
(440373)	2005 AE_{74}	2005 01 15	691	Spacewatch
(440374)	2005 BY_{28}	2005 01 31	644	NEAT
(440375)	2005 BD_{49}	2005 01 16	703	CSS
(440376)	2005 CN_{18}	2005 02 02	703	LINEAR
(440377)	2005 CC_{36}	2004 12 18	704	Mt. Lemmon Survey
(440378)	2005 CN_{47}	2005 02 02	691	Spacewatch
(440379)	2005 CS_{47}	2004 12 20	691	Mt. Lemmon Survey
(440380)	2005 CD_{61}	2005 02 03	G98	Calvin College
(440381)	2005 EN_{91}	2005 03 08	691	Spacewatch
(440382)	2005 ET_{122}	2005 02 01	G96	Spacewatch
(440383)	2005 EK_{126}	2005 03 08	G96	Mt. Lemmon Survey
(440384)	2005 EO_{238}	2005 03 11	691	Spacewatch
(440385)	2005 ED_{243}	2005 03 11	691	Spacewatch
(440386)	2005 EP_{251}	2005 03 03	699	CSS
(440387)	2005 GO_{36}	2005 04 02	G96	Mt. Lemmon Survey
(440388)	2005 GM_{57}	2005 04 06	G96	Mt. Lemmon Survey
(440389)	2005 GP_{68}	2005 04 02	703	CSS
(440390)	2005 GG_{176}	2005 04 14	691	Spacewatch
(440391)	2005 GF_{198}	2005 04 10	695	Buie, M. W.
(440392)	2005 GO_{200}	2005 03 16	G96	Mt. Lemmon Survey
(440393)	2005 JQ_{20}	2005 05 04	703	CSS
(440394)	2005 JN_{32}	2005 05 04	G96	Mt. Lemmon Survey
(440395)	2005 JH_{120}	2005 05 10	691	Spacewatch
(440396)	2005 JO_{156}	2005 05 04	G96	Mt. Lemmon Survey
(440397)	2005 LU_{20}	2005 06 04	691	Spacewatch
(440398)	2005 MN_{14}	2005 06 28	644	NEAT
(440399)	2005 NW_{3}	2005 07 02	691	Spacewatch
(440400)	2005 NQ_{19}	2005 06 13	G96	Mt. Lemmon Survey
(440401)	2005 NS_{28}	2005 07 05	644	NEAT
(440402)	2005 NO_{41}	2005 07 04	G96	Mt. Lemmon Survey
(440403)	2005 ND_{45}	2005 07 04	691	Spacewatch
(440404)	2005 NT_{64}	2005 07 01	691	Spacewatch
(440405)	2005 NW_{67}	2005 07 03	G96	Mt. Lemmon Survey
(440406)	2005 OK_{1}	2005 07 19	644	NEAT
(440407)	2005 OU_{21}	2005 07 29	644	NEAT
(440408)	2005 PM_{3}	2005 08 06	941	Pla D'Arguines
(440409)	2005 QZ_{4}	2005 08 25	644	NEAT
(440410)	2005 QA_{25}	2005 08 27	691	Spacewatch
(440411)	2005 QS_{28}	2005 08 26	A55	Casulli, V. S.
(440412)	2005 QG_{32}	2005 08 24	644	NEAT
(440413)	2005 QD_{34}	2005 08 25	644	NEAT
(440414)	2005 QY_{62}	2005 08 26	644	NEAT
(440415)	2005 QR_{68}	2005 08 28	E12	Siding Spring Survey
(440416)	2005 QR_{80}	2005 06 17	699	Mt. Lemmon Survey
(440417)	2005 QS_{80}	2005 08 28	699	LONEOS
(440418)	2005 QL_{83}	2005 08 29	691	Spacewatch
(440419)	2005 QE_{114}	2005 08 27	644	NEAT
(440420)	2005 QW_{129}	2005 08 28	691	Spacewatch
(440421)	2005 QT_{170}	2005 08 29	644	NEAT
(440422)	2005 QX_{180}	2005 08 29	691	Spacewatch
(440423)	2005 RB_{15}	2005 09 01	691	Spacewatch
(440424)	2005 RM_{22}	2005 08 31	699	LINEAR
(440425)	2005 RG_{33}	2005 09 14	691	Spacewatch
(440426)	2005 RC_{45}	2005 09 08	621	Bickel, W.
(440427)	2005 RF_{48}	2005 09 14	705	Becker, A. C.
(440428)	2005 RU_{51}	2005 09 01	691	Spacewatch
(440429)	2005 SK_{8}	2005 09 25	291	Spacewatch
(440430)	2005 SO_{8}	2005 09 25	691	Spacewatch
(440431)	2005 SF_{21}	2005 09 26	691	Spacewatch
(440432)	2005 SR_{21}	2005 09 27	704	LINEAR
(440433)	2005 SA_{22}	2005 09 23	691	Spacewatch
(440434)	2005 SL_{22}	2005 09 23	691	Spacewatch
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(440436)	2005 SB_{31}	2005 09 23	691	Spacewatch
(440437)	2005 SM_{32}	2005 09 23	691	Spacewatch
(440438)	2005 SS_{38}	2005 09 24	691	Spacewatch
(440439)	2005 SA_{40}	2005 09 24	691	Spacewatch
(440440)	2005 SO_{43}	2005 09 24	691	Spacewatch
(440441)	2005 SJ_{45}	2005 09 24	691	Spacewatch
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(440443)	2005 SN_{47}	2005 09 24	691	Spacewatch
(440444)	2005 SU_{48}	2005 09 24	691	Spacewatch
(440445)	2005 SG_{59}	2005 09 26	691	Spacewatch
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(440448)	2005 SH_{76}	2005 09 24	691	Spacewatch
(440449)	2005 SJ_{76}	2005 09 24	691	Spacewatch
(440450)	2005 SE_{88}	2005 09 24	691	Spacewatch
(440451)	2005 SD_{92}	2005 09 24	691	Spacewatch
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(440453)	2005 SP_{97}	2005 09 25	644	NEAT
(440454)	2005 SO_{98}	2005 09 24	691	Spacewatch
(440455)	2005 SZ_{132}	2005 09 29	691	Spacewatch
(440456)	2005 SR_{149}	2005 09 25	691	Spacewatch
(440457)	2005 SG_{151}	2005 09 25	691	Spacewatch
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(440459)	2005 SB_{160}	2005 09 27	691	Spacewatch
(440460)	2005 ST_{174}	2005 09 29	691	Spacewatch
(440461)	2005 SY_{175}	2005 09 29	691	Spacewatch
(440462)	2005 SC_{176}	2005 09 29	691	Spacewatch
(440463)	2005 SN_{182}	2005 09 29	691	Spacewatch
(440464)	2005 SH_{198}	2005 09 30	G96	Mt. Lemmon Survey
(440465)	2005 ST_{200}	2005 09 30	691	Spacewatch
(440466)	2005 SH_{208}	2005 09 30	291	Spacewatch
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(440468)	2005 SM_{240}	2005 09 30	691	Spacewatch
(440469)	2005 SU_{241}	2005 09 30	691	Spacewatch
(440470)	2005 SF_{242}	2005 09 30	691	Spacewatch
(440471)	2005 SA_{243}	2005 09 30	G96	Mt. Lemmon Survey
(440472)	2005 SA_{257}	2005 09 22	644	NEAT
(440473)	2005 SO_{263}	2005 09 23	691	Spacewatch
(440474)	2005 SU_{263}	2005 09 23	691	Spacewatch
(440475)	2005 SB_{269}	2005 09 25	691	Spacewatch
(440476)	2005 SQ_{271}	2005 09 30	699	LONEOS
(440477)	2005 SK_{288}	2005 09 27	705	Becker, A. C.
(440478)	2005 ST_{288}	2005 09 27	705	Becker, A. C.
(440479)	2005 TX_{6}	2005 10 01	703	CSS
(440480)	2005 TU_{13}	2005 10 01	683	Tucker, R. A.
(440481)	2005 TX_{13}	2005 09 14	G96	Spacewatch
(440482)	2005 TY_{16}	2005 10 01	704	LINEAR
(440483)	2005 TY_{45}	2005 09 24	224	Spacewatch
(440484)	2005 TO_{47}	2005 10 05	691	Spacewatch
(440485)	2005 TR_{47}	2005 10 05	691	Spacewatch
(440486)	2005 TB_{50}	2005 09 30	152	CSS
(440487)	2005 TS_{60}	2005 10 03	691	Spacewatch
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(440492)	2005 TK_{106}	2005 10 09	691	Spacewatch
(440493)	2005 TU_{110}	2005 09 29	691	Spacewatch
(440494)	2005 TW_{111}	2005 10 07	691	Spacewatch
(440495)	2005 TZ_{112}	2005 09 27	691	Spacewatch
(440496)	2005 TA_{134}	2005 10 10	703	CSS
(440497)	2005 TX_{141}	2005 10 08	691	Spacewatch
(440498)	2005 TO_{144}	2005 09 23	691	Spacewatch
(440499)	2005 TZ_{146}	2005 10 08	691	Spacewatch
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(440501)	2005 TX_{166}	2005 09 29	691	Spacewatch
(440502)	2005 TG_{187}	2005 10 06	691	Spacewatch
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(440504)	2005 TY_{193}	2005 10 01	G96	Mt. Lemmon Survey
(440505)	2005 TC_{194}	2005 10 01	691	Spacewatch
(440506)	2005 TC_{196}	2005 10 07	691	Spacewatch
(440507)	2005 UF_{25}	2005 10 23	691	Spacewatch
(440508)	2005 UW_{27}	2005 10 23	291	Spacewatch
(440509)	2005 UW_{30}	2005 10 24	691	Spacewatch
(440510)	2005 UD_{35}	2005 10 24	691	Spacewatch
(440511)	2005 UM_{35}	2005 10 24	691	Spacewatch
(440512)	2005 UZ_{35}	2005 10 24	691	Spacewatch
(440513)	2005 UB_{36}	2005 10 24	691	Spacewatch
(440514)	2005 US_{39}	2005 10 24	691	Spacewatch
(440515)	2005 UT_{41}	2005 10 05	691	Spacewatch
(440516)	2005 US_{56}	2005 10 24	699	LONEOS
(440517)	2005 UQ_{60}	2005 10 25	G96	Mt. Lemmon Survey
(440518)	2005 UQ_{70}	2005 10 23	703	CSS
(440519)	2005 UT_{72}	2005 10 23	644	NEAT
(440520)	2005 UP_{82}	2005 10 22	691	Spacewatch
(440521)	2005 UW_{84}	2005 10 22	691	Spacewatch
(440522)	2005 UQ_{87}	2005 10 22	691	Spacewatch
(440523)	2005 UH_{88}	2005 10 22	691	Spacewatch
(440524)	2005 UA_{89}	2005 10 22	691	Spacewatch
(440525)	2005 UX_{89}	2005 10 22	691	Spacewatch
(440526)	2005 UD_{92}	2005 10 22	691	Spacewatch
(440527)	2005 UJ_{95}	2005 10 22	691	Spacewatch
(440528)	2005 UN_{99}	2005 10 22	691	Spacewatch
(440529)	2005 UB_{100}	2005 10 22	691	Spacewatch
(440530)	2005 UU_{101}	2005 10 22	691	Spacewatch
(440531)	2005 UX_{105}	2005 10 22	691	Spacewatch
(440532)	2005 UE_{120}	2005 10 12	691	Spacewatch
(440533)	2005 UD_{129}	2005 10 24	691	Spacewatch
(440534)	2005 UA_{136}	2005 10 25	G96	Mt. Lemmon Survey
(440535)	2005 UA_{147}	2005 10 26	691	Spacewatch
(440536)	2005 UL_{152}	2005 10 26	691	Spacewatch
(440537)	2005 UK_{158}	2005 10 10	704	CSS
(440538)	2005 UJ_{165}	2005 10 24	691	Spacewatch
(440539)	2005 UA_{177}	2005 10 24	691	Spacewatch
(440540)	2005 UR_{180}	2005 10 01	691	Mt. Lemmon Survey
(440541)	2005 UH_{186}	2005 10 25	G96	Mt. Lemmon Survey
(440542)	2005 UW_{195}	2005 09 29	691	Mt. Lemmon Survey
(440543)	2005 UQ_{196}	2005 10 24	691	Spacewatch
(440544)	2005 UU_{218}	2005 10 25	691	Spacewatch
(440545)	2005 UQ_{222}	2005 10 25	691	Spacewatch
(440546)	2005 UT_{224}	2005 10 25	691	Spacewatch
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(440548)	2005 UD_{236}	2005 10 25	691	Spacewatch
(440549)	2005 UN_{237}	2005 10 25	691	Spacewatch
(440550)	2005 UX_{253}	2005 10 28	703	CSS

(440551)	2005 US_{254}	2005 10 22	691	Spacewatch
(440552)	2005 UF_{261}	2005 10 25	G96	Mt. Lemmon Survey
(440553)	2005 UH_{261}	2005 10 25	G96	Mt. Lemmon Survey
(440554)	2005 UP_{263}	2005 10 27	691	Spacewatch
(440555)	2005 UX_{264}	2005 10 27	G96	Mt. Lemmon Survey
(440556)	2005 UD_{265}	2005 10 27	691	Spacewatch
(440557)	2005 UG_{278}	2005 10 24	691	Spacewatch
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(440559)	2005 UO_{299}	2005 10 26	691	Spacewatch
(440560)	2005 UA_{311}	2005 10 29	G96	Mt. Lemmon Survey
(440561)	2005 UM_{324}	2005 10 29	691	Spacewatch
(440562)	2005 UD_{325}	2000 11 18	G96	Spacewatch
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(440564)	2005 UX_{329}	2005 10 28	691	Spacewatch
(440565)	2005 UX_{331}	2005 10 29	691	Spacewatch
(440566)	2005 UG_{332}	2005 10 29	703	CSS
(440567)	2005 UK_{355}	2005 10 29	703	CSS
(440568)	2005 UP_{360}	2005 10 27	691	Spacewatch
(440569)	2005 UX_{382}	2005 10 27	699	LONEOS
(440570)	2005 UJ_{385}	2005 10 27	691	Spacewatch
(440571)	2005 UX_{395}	2005 10 30	703	CSS
(440572)	2005 UG_{404}	2005 10 29	G96	Mt. Lemmon Survey
(440573)	2005 UL_{407}	2005 10 01	G96	Spacewatch
(440574)	2005 UE_{422}	2005 10 27	G96	Mt. Lemmon Survey
(440575)	2005 UG_{424}	2005 10 28	691	Spacewatch
(440576)	2005 UN_{427}	1998 10 13	691	Spacewatch
(440577)	2005 UL_{446}	2005 10 29	703	CSS
(440578)	2005 UT_{467}	2005 10 30	691	Spacewatch
(440579)	2005 UW_{467}	2005 10 30	691	Spacewatch
(440580)	2005 UG_{473}	2005 10 30	G96	Mt. Lemmon Survey
(440581)	2005 UM_{477}	2005 10 26	699	LONEOS
(440582)	2005 UU_{484}	2005 10 22	703	CSS
(440583)	2005 UA_{489}	2005 10 10	703	CSS
(440584)	2005 UH_{501}	2005 10 27	703	CSS
(440585)	2005 UT_{502}	2005 10 31	699	LONEOS
(440586)	2005 UN_{508}	2005 10 27	699	LONEOS
(440587)	2005 UU_{510}	2005 10 25	G96	Mt. Lemmon Survey
(440588)	2005 UV_{511}	2005 10 28	G96	Mt. Lemmon Survey
(440589)	2005 UM_{519}	2005 09 23	705	Spacewatch
(440590)	2005 UQ_{523}	2005 10 27	705	Becker, A. C.
(440591)	2005 UP_{525}	2005 10 25	G96	Mt. Lemmon Survey
(440592)	2005 UE_{526}	2005 10 31	691	Spacewatch
(440593)	2005 UW_{526}	2005 10 27	G96	Mt. Lemmon Survey
(440594)	2005 UH_{529}	2005 10 24	691	Spacewatch
(440595)	2005 VG_{8}	2005 11 01	691	Spacewatch
(440596)	2005 VY_{10}	2005 10 22	G96	Spacewatch
(440597)	2005 VY_{25}	2005 10 25	G96	Spacewatch
(440598)	2005 VR_{31}	2005 11 04	691	Spacewatch
(440599)	2005 VC_{32}	2005 10 25	691	Mt. Lemmon Survey
(440600)	2005 VD_{32}	2005 09 30	691	Mt. Lemmon Survey
(440601)	2005 VC_{33}	2005 11 04	691	Spacewatch
(440602)	2005 VT_{54}	2005 10 25	691	Spacewatch
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(440604)	2005 VC_{66}	2005 10 25	G96	Spacewatch
(440605)	2005 VS_{67}	2005 10 28	G96	Spacewatch
(440606)	2005 VK_{72}	2005 11 01	G96	Mt. Lemmon Survey
(440607)	2005 VB_{76}	2005 10 01	703	CSS
(440608)	2005 VM_{80}	2005 10 25	691	Spacewatch
(440609)	2005 VQ_{95}	2005 11 06	691	Spacewatch
(440610)	2005 VJ_{101}	2005 10 25	G96	Spacewatch
(440611)	2005 VO_{112}	2005 11 08	704	LINEAR
(440612)	2005 VJ_{114}	2005 10 27	G96	Mt. Lemmon Survey
(440613)	2005 VD_{117}	2005 11 11	691	Spacewatch
(440614)	2005 VM_{117}	2005 11 11	691	Spacewatch
(440615)	2005 VW_{117}	2005 11 01	703	CSS
(440616)	2005 VA_{130}	2005 10 08	705	Spacewatch
(440617)	2005 WQ_{2}	2005 11 22	704	LINEAR
(440618)	2005 WJ_{3}	2005 11 20	644	NEAT
(440619)	2005 WS_{9}	2005 11 21	701	Healy, D.
(440620)	2005 WG_{10}	2005 10 31	644	Mt. Lemmon Survey
(440621)	2005 WV_{12}	2005 11 22	691	Spacewatch
(440622)	2005 WV_{22}	2005 10 30	691	Mt. Lemmon Survey
(440623)	2005 WH_{27}	2005 10 28	691	Mt. Lemmon Survey
(440624)	2005 WS_{33}	2005 11 21	691	Spacewatch
(440625)	2005 WA_{34}	2005 11 21	691	Spacewatch
(440626)	2005 WG_{38}	2005 11 22	691	Spacewatch
(440627)	2005 WS_{45}	2005 10 25	691	Mt. Lemmon Survey
(440628)	2005 WL_{48}	2005 11 25	691	Spacewatch
(440629)	2005 WC_{51}	2005 11 25	691	Spacewatch
(440630)	2005 WH_{59}	2005 10 25	703	CSS
(440631)	2005 WD_{65}	2005 10 25	703	CSS
(440632)	2005 WN_{69}	2005 11 26	691	Spacewatch
(440633)	2005 WC_{71}	2005 11 21	703	CSS
(440634)	2005 WN_{71}	2005 10 25	703	Spacewatch
(440635)	2005 WM_{72}	2005 11 25	691	Spacewatch
(440636)	2005 WM_{75}	2005 11 01	691	Spacewatch
(440637)	2005 WJ_{82}	2005 10 30	691	Spacewatch
(440638)	2005 WS_{83}	2005 10 30	G96	Mt. Lemmon Survey
(440639)	2005 WP_{87}	2005 11 28	G96	Mt. Lemmon Survey
(440640)	2005 WM_{90}	2005 11 28	704	LINEAR
(440641)	2005 WK_{106}	2005 10 28	691	Mt. Lemmon Survey
(440642)	2005 WP_{107}	2005 11 25	703	CSS
(440643)	2005 WL_{108}	2005 10 28	G96	Spacewatch
(440644)	2005 WT_{116}	2005 11 30	G96	Mt. Lemmon Survey
(440645)	2005 WB_{117}	2005 11 21	941	CSS
(440646)	2005 WM_{127}	2005 11 25	G96	Mt. Lemmon Survey
(440647)	2005 WY_{135}	2005 11 26	691	Spacewatch
(440648)	2005 WB_{164}	2005 11 29	691	Spacewatch
(440649)	2005 WO_{164}	2005 11 29	G96	Mt. Lemmon Survey
(440650)	2005 WL_{166}	2005 11 29	G96	Mt. Lemmon Survey
(440651)	2005 WN_{177}	2005 11 30	691	Spacewatch
(440652)	2005 WE_{178}	2005 11 30	691	Spacewatch
(440653)	2005 WK_{178}	2005 11 30	691	Spacewatch
(440654)	2005 WB_{184}	2005 11 28	704	LINEAR

(440655)	2005 WQ_{207}	2005 11 21	691	Spacewatch
(440656)	2005 WJ_{208}	2005 11 26	691	Spacewatch
(440657)	2005 XM_{1}	2005 10 28	701	Mt. Lemmon Survey
(440658)	2005 XN_{14}	2005 12 01	691	Spacewatch
(440659)	2005 XF_{25}	2005 12 04	691	Spacewatch
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(440661)	2005 XG_{34}	2005 12 04	691	Spacewatch
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(440663)	2005 XO_{58}	2005 11 26	G96	Mt. Lemmon Survey
(440664)	2005 XV_{61}	2005 10 25	691	Spacewatch
(440665)	2005 XT_{62}	2005 12 05	G96	Mt. Lemmon Survey
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(440667)	2005 XV_{67}	2005 11 25	G96	Spacewatch
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(440670)	2005 YL_{4}	2005 12 22	926	Merlin, J.-C.
(440671)	2005 YV_{16}	2005 12 22	691	Spacewatch
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(440675)	2005 YP_{20}	2005 12 24	691	Spacewatch
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(440679)	2005 YV_{36}	2005 12 25	691	Spacewatch
(440680)	2005 YW_{36}	2005 12 23	568	Tholen, D. J.
(440681)	2005 YG_{37}	2005 12 21	703	CSS
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(440688)	2005 YF_{64}	2005 12 24	691	Spacewatch
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(440690)	2005 YO_{73}	2005 12 24	691	Spacewatch
(440691)	2005 YP_{73}	2005 12 24	691	Spacewatch
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(440704)	2005 YZ_{141}	2005 12 28	G96	Mt. Lemmon Survey
(440705)	2005 YT_{153}	2005 12 29	691	Spacewatch
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(440708)	2005 YG_{190}	2005 12 30	691	Spacewatch
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(440712)	2005 YR_{200}	2005 12 22	691	Spacewatch
(440713)	2005 YX_{200}	2005 12 22	691	Spacewatch
(440714)	2005 YK_{219}	2005 12 31	291	Spacewatch
(440715)	2005 YX_{231}	2005 12 27	408	Nyukasa
(440716)	2005 YP_{247}	2005 12 30	691	Spacewatch
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(440723)	2006 AT_{37}	2006 01 04	691	Spacewatch
(440724)	2006 AS_{43}	2006 01 07	G96	Mt. Lemmon Survey
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(440726)	2006 AN_{49}	2005 12 30	691	Spacewatch
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(440734)	2006 BC_{35}	2006 01 22	G96	Mt. Lemmon Survey
(440735)	2006 BY_{48}	2006 01 25	691	Spacewatch
(440736)	2006 BF_{52}	2006 01 25	691	Spacewatch
(440737)	2006 BA_{57}	2006 01 07	G96	Mt. Lemmon Survey
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(440746)	2006 BV_{255}	2006 01 31	691	Spacewatch
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(440757)	2006 DE_{216}	2006 02 21	G96	Mt. Lemmon Survey
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(440763)	2006 FE_{20}	2006 03 23	G96	Mt. Lemmon Survey
(440764)	2006 FA_{54}	2006 03 23	G96	Mt. Lemmon Survey
(440765)	2006 GV	2006 04 02	703	CSS
(440766)	2006 GK_{5}	2006 04 02	691	Spacewatch
(440767)	2006 GR_{54}	2006 04 02	691	Spacewatch
(440768)	2006 HY_{8}	2006 04 07	691	Mt. Lemmon Survey
(440769)	2006 HS_{23}	2006 04 20	691	Spacewatch
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(440772)	2006 HY_{37}	2006 04 21	691	Spacewatch
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(440774)	2006 HO_{59}	2006 04 23	703	CSS
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(440786)	2006 KO_{75}	2005 01 16	691	Spacewatch
(440787)	2006 KF_{83}	2006 05 08	691	Spacewatch
(440788)	2006 KX_{91}	2006 05 25	691	Spacewatch
(440789)	2006 KK_{92}	2006 05 25	691	Spacewatch
(440790)	2006 KP_{123}	2006 05 08	G96	Mt. Lemmon Survey
(440791)	2006 MV_{7}	2006 06 18	691	Spacewatch
(440792)	2006 MA_{11}	2006 06 19	G96	Mt. Lemmon Survey
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(440813)	2006 QN_{119}	2006 08 28	704	LINEAR
(440814)	2006 QX_{122}	2006 08 18	699	LONEOS
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(440833)	2006 RB_{116}	2006 09 14	568	Masiero, J.
(440834)	2006 RJ_{122}	2004 02 17	691	Spacewatch
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(440838)	2006 SV_{43}	2006 09 16	703	CSS
(440839)	2006 SA_{45}	2006 09 18	691	Spacewatch
(440840)	2006 SM_{65}	2006 09 18	703	CSS
(440841)	2006 SR_{79}	2006 09 17	703	CSS
(440842)	2006 SE_{84}	2006 09 14	691	Spacewatch
(440843)	2006 SD_{103}	2006 09 19	691	Spacewatch
(440844)	2006 SF_{105}	2006 09 19	704	LINEAR
(440845)	2006 SK_{109}	2006 09 19	691	Spacewatch
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(440847)	2006 SY_{126}	2006 09 22	699	LONEOS
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(440858)	2006 SS_{277}	2006 09 28	691	Spacewatch
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(440860)	2006 SK_{290}	2006 09 30	703	CSS
(440861)	2006 SF_{296}	2006 09 25	691	Spacewatch
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(440863)	2006 SN_{342}	2006 09 28	691	Spacewatch
(440864)	2006 SC_{355}	2006 07 22	703	Mt. Lemmon Survey
(440865)	2006 SF_{378}	2006 09 18	705	Becker, A. C.
(440866)	2006 SA_{385}	2006 09 29	705	Becker, A. C.
(440867)	2006 SV_{394}	2006 09 25	703	CSS
(440868)	2006 ST_{405}	2006 09 17	691	Spacewatch
(440869)	2006 SE_{411}	2006 09 26	691	Spacewatch
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(440873)	2006 TB_{29}	2006 10 04	691	Mt. Lemmon Survey
(440874)	2006 TR_{34}	2006 10 12	691	Spacewatch
(440875)	2006 TX_{40}	2001 10 16	691	Spacewatch
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(440877)	2006 TF_{56}	2006 10 13	291	Spacewatch
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(440879)	2006 TP_{74}	2006 10 11	644	NEAT
(440880)	2006 TY_{76}	2006 10 11	644	NEAT
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(440883)	2006 TX_{110}	2006 10 01	705	Becker, A. C.
(440884)	2006 TQ_{115}	2006 10 01	705	Becker, A. C.
(440885)	2006 TT_{124}	2006 10 04	G96	Mt. Lemmon Survey
(440886)	2006 US_{16}	2006 10 17	G96	Mt. Lemmon Survey
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(440890)	2006 UO_{84}	2006 10 17	G96	Mt. Lemmon Survey
(440891)	2006 UM_{113}	2006 09 18	691	Spacewatch
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(440909)	2006 VP_{63}	2006 09 17	691	Spacewatch
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(440912)	2006 VZ_{79}	2006 10 22	G96	Mt. Lemmon Survey
(440913)	2006 VR_{81}	2006 10 21	G96	Mt. Lemmon Survey
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(440915)	2006 VK_{113}	2006 09 28	691	Mt. Lemmon Survey
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(440923)	2006 WF_{88}	2006 10 23	G96	Mt. Lemmon Survey
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(440938)	2006 YE_{4}	2006 11 27	G96	Mt. Lemmon Survey
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(440945)	2007 AH_{5}	2007 01 08	G96	Mt. Lemmon Survey
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(440953)	2007 BH_{14}	2007 01 17	691	Spacewatch
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(440966)	2007 BQ_{78}	2007 01 26	691	Spacewatch

(440967)	2007 BV_{78}	2007 01 27	691	Spacewatch
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(440977)	2007 CL_{28}	2007 01 27	691	Spacewatch
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(440984)	2007 CZ_{51}	2005 09 12	703	Spacewatch
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(440986)	2007 DX_{4}	2007 02 17	691	Spacewatch
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(441006)	2007 DL_{96}	2007 02 23	G96	Mt. Lemmon Survey
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(441009)	2007 DP_{116}	2007 02 16	703	CSS
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(441410)	2008 GT_{11}	2008 04 01	691	Spacewatch
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(441413)	2008 GH_{26}	2008 03 04	G96	Mt. Lemmon Survey
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(441767)	2009 CK_{52}	2009 01 15	G96	Spacewatch
(441768)	2009 CX_{64}	2009 02 05	691	Spacewatch
(441769)	2009 DT_{2}	2009 02 02	A77	Mt. Lemmon Survey
(441770)	2009 DQ_{3}	2009 02 19	H36	Hug, G.
(441771)	2009 DU_{3}	2009 02 17	704	LINEAR
(441772)	2009 DE_{4}	2009 01 15	941	Spacewatch
(441773)	2009 DU_{7}	2008 12 30	703	Mt. Lemmon Survey
(441774)	2009 DM_{31}	2009 01 01	691	Spacewatch
(441775)	2009 DS_{34}	2009 02 20	691	Spacewatch
(441776)	2009 DM_{41}	2009 01 16	J75	Spacewatch
(441777)	2009 DF_{45}	2009 02 22	704	LINEAR
(441778)	2009 DZ_{45}	2009 01 26	704	PMO NEO Survey Program
(441779)	2009 DF_{49}	2009 02 19	691	Spacewatch
(441780)	2009 DG_{49}	2009 02 19	691	Spacewatch
(441781)	2009 DA_{55}	2009 02 01	691	Spacewatch
(441782)	2009 DY_{63}	2009 02 22	691	Spacewatch
(441783)	2009 DT_{64}	2009 02 03	703	Spacewatch
(441784)	2009 DA_{72}	2008 10 29	691	Mt. Lemmon Survey
(441785)	2009 DB_{79}	2009 02 21	691	Spacewatch
(441786)	2009 DF_{89}	2009 02 24	691	Spacewatch
(441787)	2009 DK_{107}	2009 02 28	691	Spacewatch
(441788)	2009 DE_{126}	2009 02 19	691	Spacewatch
(441789)	2009 DA_{135}	2009 02 20	691	Spacewatch
(441790)	2009 EQ_{12}	2008 11 06	G96	Mt. Lemmon Survey
(441791)	2009 EC_{16}	2009 02 14	691	Spacewatch
(441792)	2009 ED_{18}	2009 03 15	691	Spacewatch
(441793)	2009 EL_{18}	2009 03 15	691	Spacewatch
(441794)	2009 ES_{24}	2009 03 02	G96	Mt. Lemmon Survey
(441795)	2009 FM_{9}	2009 02 20	D29	CSS
(441796)	2009 FN_{27}	2008 10 01	703	Mt. Lemmon Survey
(441797)	2009 FQ_{27}	2000 02 27	703	Spacewatch
(441798)	2009 FV_{27}	2009 03 21	703	CSS

(441799)	2009 FJ_{41}	2009 03 21	703	CSS
(441800)	2009 FY_{45}	2009 02 01	691	Mt. Lemmon Survey
(441801)	2009 FV_{53}	2007 12 17	G96	Mt. Lemmon Survey
(441802)	2009 FH_{64}	2009 03 31	691	Spacewatch
(441803)	2009 FC_{65}	2004 02 29	691	Spacewatch
(441804)	2009 FW_{73}	2009 03 28	G96	Mt. Lemmon Survey
(441805)	2009 HQ_{8}	2007 10 21	703	Mt. Lemmon Survey
(441806)	2009 HJ_{24}	2009 04 02	691	Mt. Lemmon Survey
(441807)	2009 HE_{34}	2009 03 26	703	Mt. Lemmon Survey
(441808)	2009 HV_{39}	2009 03 02	691	Spacewatch
(441809)	2009 HV_{48}	2009 04 19	691	Spacewatch
(441810)	2009 HD_{99}	2009 04 22	G96	Mt. Lemmon Survey
(441811)	2009 HF_{102}	2009 04 20	G96	Mt. Lemmon Survey
(441812)	2009 JH_{8}	2009 04 20	691	Spacewatch
(441813)	2009 KH_{5}	2009 05 24	691	Spacewatch
(441814)	2009 KP_{23}	2009 03 31	691	Mt. Lemmon Survey
(441815)	2009 KU_{23}	2009 04 30	691	Spacewatch
(441816)	2009 KC_{24}	2009 05 27	691	Spacewatch
(441817)	2009 LM_{4}	2009 06 12	691	Spacewatch
(441818)	2009 MW_{8}	2009 06 28	J75	OAM
(441819)	2009 NW_{1}	2009 07 11	E12	Siding Spring Survey
(441820)	2009 OD_{10}	2009 07 29	J75	OAM
(441821)	2009 OW_{12}	2009 07 27	691	Spacewatch
(441822)	2009 OC_{17}	2009 07 28	691	Spacewatch
(441823)	2009 QO_{5}	2009 08 18	691	Spacewatch
(441824)	2009 RO_{61}	2008 04 01	J75	Spacewatch
(441825)	2009 SK_{1}	2009 09 17	703	CSS
(441826)	2009 SR_{64}	2007 04 19	G96	Spacewatch
(441827)	2009 SA_{88}	2009 09 18	691	Spacewatch
(441828)	2009 SF_{97}	2009 09 20	G96	Mt. Lemmon Survey
(441829)	2009 SQ_{241}	2009 09 18	703	CSS
(441830)	2009 SJ_{244}	2006 12 10	691	Spacewatch
(441831)	2009 SB_{286}	2009 09 25	G96	Mt. Lemmon Survey
(441832)	2009 SK_{343}	2009 09 17	691	Spacewatch
(441833)	2009 TU_{19}	2009 09 20	G96	Mt. Lemmon Survey
(441834)	2009 TW_{47}	2009 10 01	G96	Mt. Lemmon Survey
(441835)	2009 UH_{53}	2009 09 15	G96	Spacewatch
(441836)	2009 UC_{82}	2009 10 11	G96	Mt. Lemmon Survey
(441837)	2009 UZ_{125}	2009 10 14	G96	CSS
(441838)	2009 VJ_{5}	2006 12 24	691	Spacewatch
(441839)	2009 VU_{28}	2009 09 20	691	Mt. Lemmon Survey
(441840)	2009 VK_{31}	2009 10 26	G96	Spacewatch
(441841)	2009 VB_{35}	2008 03 29	G96	Mt. Lemmon Survey
(441842)	2009 VJ_{35}	2009 11 10	G96	Mt. Lemmon Survey
(441843)	2009 VK_{53}	2009 10 24	G96	Spacewatch
(441844)	2009 VK_{58}	2009 11 15	703	CSS
(441845)	2009 VU_{73}	2009 09 20	G96	Mt. Lemmon Survey
(441846)	2009 VX_{98}	2007 03 15	G96	Spacewatch
(441847)	2009 VG_{114}	2009 11 09	691	Spacewatch
(441848)	2009 WN_{10}	2009 11 17	704	CSS
(441849)	2009 WO_{20}	2006 12 27	G96	Mt. Lemmon Survey
(441850)	2009 WJ_{23}	2009 11 18	691	Spacewatch
(441851)	2009 WK_{33}	2009 11 16	691	Spacewatch
(441852)	2009 WC_{42}	2009 11 17	691	Spacewatch
(441853)	2009 WD_{71}	2009 11 10	691	Spacewatch
(441854)	2009 WR_{96}	2009 11 20	G96	Mt. Lemmon Survey
(441855)	2009 WY_{96}	2009 09 21	G96	Mt. Lemmon Survey
(441856)	2009 WD_{101}	2009 10 25	691	Spacewatch
(441857)	2009 WP_{162}	2009 11 21	691	Spacewatch
(441858)	2009 WS_{169}	2009 10 24	G96	Spacewatch
(441859)	2009 WU_{171}	2006 12 13	G96	Spacewatch
(441860)	2009 WH_{190}	2009 11 24	691	Spacewatch
(441861)	2009 WF_{219}	2009 11 16	691	Spacewatch
(441862)	2009 WX_{260}	2009 11 25	691	Spacewatch
(441863)	2009 WE_{262}	2009 11 18	691	Spacewatch
(441864)	2009 XG	2009 11 26	941	Mt. Lemmon Survey
(441865)	2009 YZ_{2}	2009 12 17	G96	Mt. Lemmon Survey
(441866)	2009 YM_{11}	2009 12 18	G96	Mt. Lemmon Survey
(441867)	2009 YA_{15}	2009 12 18	G96	Mt. Lemmon Survey
(441868)	2009 YC_{17}	2009 12 16	691	Spacewatch
(441869)	2009 YG_{23}	2009 11 17	691	Mt. Lemmon Survey
(441870)	2009 YF_{25}	2009 12 26	291	Spacewatch
(441871)	2010 AX_{38}	2009 11 21	691	Mt. Lemmon Survey
(441872)	2010 AC_{40}	2010 01 09	H10	Chestnov, D., Novichonok, A.
(441873)	2010 AB_{55}	2010 01 08	691	Spacewatch
(441874)	2010 AC_{60}	2010 01 06	703	CSS
(441875)	2010 AX_{128}	2006 08 29	C51	CSS
(441876)	2010 AV_{133}	2010 01 15	C51	WISE
(441877)	2010 BS_{6}	2006 04 21	C51	CSS
(441878)	2010 BK_{13}	2010 01 16	C51	WISE
(441879)	2010 BC_{74}	2010 01 23	C51	WISE
(441880)	2010 CX_{9}	2010 02 08	C51	WISE
(441881)	2010 CW_{31}	2010 02 09	703	CSS
(441882)	2010 CC_{51}	2008 12 01	C51	Spacewatch
(441883)	2010 CM_{70}	2010 02 13	G96	Mt. Lemmon Survey
(441884)	2010 CX_{73}	2008 07 29	G96	Spacewatch
(441885)	2010 CH_{79}	2008 11 20	G96	Mt. Lemmon Survey
(441886)	2010 CZ_{98}	2010 02 14	691	Spacewatch
(441887)	2010 CS_{103}	2010 02 14	691	Spacewatch
(441888)	2010 CY_{155}	2010 02 15	691	Spacewatch
(441889)	2010 CH_{161}	1998 05 26	691	Spacewatch
(441890)	2010 CC_{162}	2010 02 09	691	Spacewatch
(441891)	2010 CE_{181}	2003 05 23	F51	Spacewatch
(441892)	2010 CU_{181}	2008 10 06	F51	Mt. Lemmon Survey
(441893)	2010 CC_{182}	2010 02 14	F51	Pan-STARRS 1
(441894)	2010 DT_{25}	2010 02 19	C51	WISE
(441895)	2010 EM	2010 03 01	C51	WISE
(441896)	2010 EF_{29}	2010 02 15	691	Spacewatch
(441897)	2010 EG_{32}	2010 03 04	691	Spacewatch
(441898)	2010 EP_{33}	2010 03 04	691	Spacewatch
(441899)	2010 EU_{66}	2010 03 04	691	Spacewatch
(441900)	2010 EC_{68}	2010 03 12	G96	Mt. Lemmon Survey
(441901)	2010 ES_{73}	2010 02 19	G96	Mt. Lemmon Survey
(441902)	2010 EX_{77}	2010 02 19	G96	Mt. Lemmon Survey

(441903)	2010 EH_{97}	2010 03 14	G96	Mt. Lemmon Survey
(441904)	2010 EZ_{102}	2007 09 14	G96	Mt. Lemmon Survey
(441905)	2010 EH_{104}	2009 12 17	J75	Spacewatch
(441906)	2010 EC_{111}	2010 03 13	691	Spacewatch
(441907)	2010 EW_{122}	2010 03 15	691	Spacewatch
(441908)	2010 EM_{134}	2010 03 12	691	Spacewatch
(441909)	2010 EN_{171}	2006 04 24	I41	Spacewatch
(441910)	2010 FW_{14}	2010 03 17	703	CSS
(441911)	2010 FU_{19}	2010 03 18	G96	Mt. Lemmon Survey
(441912)	2010 FD_{85}	2010 03 19	703	CSS
(441913)	2010 FO_{87}	2007 08 10	G96	Spacewatch
(441914)	2010 FL_{101}	2010 03 16	703	CSS
(441915)	2010 GT_{94}	2007 01 24	C51	Mt. Lemmon Survey
(441916)	2010 GO_{119}	2010 04 11	691	Spacewatch
(441917)	2010 GT_{123}	2010 02 16	G96	Mt. Lemmon Survey
(441918)	2010 GN_{127}	2006 05 25	G96	Spacewatch
(441919)	2010 GE_{142}	2010 04 09	G96	Mt. Lemmon Survey
(441920)	2010 GW_{145}	2010 01 16	703	WISE
(441921)	2010 HB_{5}	2010 04 16	C51	WISE
(441922)	2010 HK_{45}	2010 04 23	C51	WISE
(441923)	2010 HA_{70}	2010 04 27	C51	WISE
(441924)	2010 JB_{2}	2010 05 03	691	Spacewatch
(441925)	2010 JK_{3}	2010 01 30	926	WISE
(441926)	2010 JL_{13}	2010 05 02	C51	WISE
(441927)	2010 JQ_{30}	2005 01 19	691	Spacewatch
(441928)	2010 JT_{31}	2010 05 05	J75	OAM
(441929)	2010 JB_{34}	2010 05 04	703	CSS
(441930)	2010 JM_{37}	2010 04 08	G96	Spacewatch
(441931)	2010 JS_{43}	2010 05 04	691	Spacewatch
(441932)	2010 JZ_{43}	2010 05 04	691	Spacewatch
(441933)	2010 JU_{45}	2010 05 07	691	Spacewatch
(441934)	2010 JB_{77}	2010 05 08	G96	Mt. Lemmon Survey
(441935)	2010 JZ_{77}	2010 02 10	G96	WISE
(441936)	2010 JP_{78}	2006 04 02	G96	Spacewatch
(441937)	2010 JK_{83}	2005 03 08	691	Spacewatch
(441938)	2010 JA_{114}	2010 05 09	G96	Mt. Lemmon Survey
(441939)	2010 JG_{133}	2010 05 14	C51	WISE
(441940)	2010 JL_{147}	2010 04 08	G96	Spacewatch
(441941)	2010 JV_{149}	2010 05 07	G96	Mt. Lemmon Survey
(441942)	2010 KB_{35}	2010 05 19	C51	WISE
(441943)	2010 KF_{62}	2010 05 19	703	CSS
(441944)	2010 KZ_{78}	2010 05 25	C51	WISE
(441945)	2010 KZ_{79}	2010 05 25	C51	WISE
(441946)	2010 KR_{95}	2010 05 28	C51	WISE
(441947)	2010 LE_{12}	2010 06 02	C51	WISE
(441948)	2010 LD_{17}	2010 06 02	C51	WISE
(441949)	2010 LZ_{33}	2005 03 11	D29	Mt. Lemmon Survey
(441950)	2010 LG_{35}	2010 05 05	691	Mt. Lemmon Survey
(441951)	2010 LB_{57}	2010 06 09	C51	WISE
(441952)	2010 LR_{68}	2010 06 08	C51	WISE
(441953)	2010 LZ_{69}	2010 06 09	C51	WISE
(441954)	2010 LY_{72}	2010 06 10	C51	WISE
(441955)	2010 LL_{78}	2010 06 10	C51	WISE
(441956)	2010 LM_{86}	2010 06 11	C51	WISE
(441957)	2010 LD_{100}	2010 06 13	C51	WISE
(441958)	2010 LR_{101}	2010 06 13	C51	WISE
(441959)	2010 LR_{116}	2010 06 14	C51	WISE
(441960)	2010 LV_{117}	2010 06 14	C51	WISE
(441961)	2010 MN_{6}	2010 06 16	C51	WISE
(441962)	2010 MJ_{23}	2005 10 12	C51	Spacewatch
(441963)	2010 MB_{24}	2010 06 18	C51	WISE
(441964)	2010 MA_{26}	2005 12 05	C51	Spacewatch
(441965)	2010 MS_{33}	2005 10 22	C51	Spacewatch
(441966)	2010 MN_{37}	2010 06 21	C51	WISE
(441967)	2010 MB_{49}	2005 10 29	C51	Spacewatch
(441968)	2010 MD_{66}	2006 12 25	C51	Spacewatch
(441969)	2010 MO_{70}	2010 06 25	C51	WISE
(441970)	2010 MK_{72}	2010 06 25	C51	WISE
(441971)	2010 MT_{77}	2010 06 26	C51	WISE
(441972)	2010 MS_{79}	2010 06 26	C51	WISE
(441973)	2010 MN_{81}	2010 06 27	C51	WISE
(441974)	2010 MQ_{92}	2010 06 28	C51	WISE
(441975)	2010 MX_{93}	2006 11 27	C51	Mt. Lemmon Survey
(441976)	2010 MW_{108}	2010 06 30	C51	WISE
(441977)	2010 MJ_{110}	2010 06 30	C51	WISE
(441978)	2010 MC_{111}	2010 06 30	C51	WISE
(441979)	2010 ND_{22}	2010 07 06	C51	WISE
(441980)	2010 NT_{23}	2010 07 06	C51	WISE
(441981)	2010 NV_{31}	2005 10 29	C51	CSS
(441982)	2010 NJ_{42}	2005 10 25	C51	CSS
(441983)	2010 NQ_{42}	2005 10 26	C51	Spacewatch
(441984)	2010 NX_{43}	2010 07 09	C51	WISE
(441985)	2010 NP_{53}	2010 07 10	C51	WISE
(441986)	2010 NG_{63}	2010 07 11	C51	WISE
(441987)	2010 NY_{65}	2010 07 14	C51	WISE
(441988)	2010 NS_{71}	2010 07 14	C51	WISE
(441989)	2010 NA_{81}	2010 07 16	C51	WISE
(441990)	2010 NC_{84}	2010 07 01	C51	WISE
(441991)	2010 NO_{84}	2010 07 01	C51	WISE
(441992)	2010 NG_{86}	2010 07 01	C51	WISE
(441993)	2010 NT_{102}	2005 10 30	C51	Spacewatch
(441994)	2010 NX_{103}	2010 07 12	C51	WISE
(441995)	2010 NU_{106}	2007 02 21	C51	Mt. Lemmon Survey
(441996)	2010 OY_{5}	2010 07 16	C51	WISE
(441997)	2010 OZ_{5}	2005 11 01	C51	LONEOS
(441998)	2010 OK_{6}	2010 07 16	C51	WISE
(441999)	2010 OQ_{12}	2007 03 18	C51	Spacewatch
(442000)	2010 OL_{14}	2010 07 17	C51	WISE
(442001)	2010 OH_{15}	2010 07 17	C51	WISE
(442002)	2010 OX_{17}	2010 07 18	C51	WISE
(442003)	2010 ON_{19}	2005 11 05	C51	Spacewatch
(442004)	2010 OJ_{20}	2008 05 28	C51	Spacewatch
(442005)	2010 OY_{23}	2010 07 19	C51	WISE
(442006)	2010 OQ_{26}	2010 07 19	C51	WISE

(442007)	2010 OS_{38}	2004 09 07	C51	Spacewatch
(442008)	2010 OF_{40}	2008 04 01	C51	Mt. Lemmon Survey
(442009)	2010 OB_{42}	2006 12 24	C51	Spacewatch
(442010)	2010 OE_{43}	2010 07 22	C51	WISE
(442011)	2010 OK_{55}	2010 07 23	C51	WISE
(442012)	2010 OL_{67}	2010 07 24	C51	WISE
(442013)	2010 OR_{68}	2005 12 07	C51	Spacewatch
(442014)	2010 OC_{70}	2010 07 25	C51	WISE
(442015)	2010 OS_{73}	2010 07 25	C51	WISE
(442016)	2010 OG_{81}	2004 08 08	C51	LONEOS
(442017)	2010 OQ_{84}	2005 11 29	C51	Spacewatch
(442018)	2010 OZ_{87}	2008 04 13	C51	Spacewatch
(442019)	2010 OO_{94}	2003 04 24	C51	Spacewatch
(442020)	2010 OB_{103}	2010 07 29	C51	WISE
(442021)	2010 OC_{104}	2004 09 07	C51	Spacewatch
(442022)	2010 OO_{104}	2008 04 15	C51	Mt. Lemmon Survey
(442023)	2010 OV_{115}	2010 07 30	C51	WISE
(442024)	2010 OK_{116}	2005 12 02	C51	Mt. Lemmon Survey
(442025)	2010 OG_{117}	2010 07 30	C51	WISE
(442026)	2010 OZ_{119}	2010 07 31	C51	WISE
(442027)	2010 OH_{127}	2007 01 28	I41	Mt. Lemmon Survey
(442028)	2010 PA_{4}	2006 12 27	C51	Mt. Lemmon Survey
(442029)	2010 PZ_{4}	2010 08 01	C51	WISE
(442030)	2010 PR_{6}	2005 12 25	C51	Spacewatch
(442031)	2010 PW_{10}	2008 04 06	C51	Spacewatch
(442032)	2010 PH_{19}	2010 08 04	C51	WISE
(442033)	2010 PV_{27}	2010 08 05	C51	WISE
(442034)	2010 PY_{35}	2008 05 14	C51	Mt. Lemmon Survey
(442035)	2010 PT_{64}	2010 08 10	691	Spacewatch
(442036)	2010 PP_{65}	2008 11 30	J75	Mt. Lemmon Survey
(442037)	2010 PR_{66}	2010 07 22	704	WISE
(442038)	2010 PG_{69}	2010 08 09	C51	WISE
(442039)	2010 PW_{80}	2002 01 19	I41	Spacewatch
(442040)	2010 RG_{5}	2010 08 10	J04	Spacewatch
(442041)	2010 RA_{10}	2005 10 06	J04	Spacewatch
(442042)	2010 RV_{10}	2010 09 02	G96	Mt. Lemmon Survey
(442043)	2010 RX_{10}	2010 09 02	G96	Mt. Lemmon Survey
(442044)	2010 RA_{11}	2010 09 02	G96	Mt. Lemmon Survey
(442045)	2010 RF_{19}	2005 10 01	704	Spacewatch
(442046)	2010 RY_{28}	2001 09 23	G96	Spacewatch
(442047)	2010 RG_{30}	2010 09 04	G96	Mt. Lemmon Survey
(442048)	2010 RQ_{32}	2005 08 31	G96	Spacewatch
(442049)	2010 RY_{47}	2010 08 06	691	Spacewatch
(442050)	2010 RK_{48}	2007 02 26	691	Mt. Lemmon Survey
(442051)	2010 RY_{49}	2010 09 04	691	Spacewatch
(442052)	2010 RF_{53}	2010 09 06	704	LINEAR
(442053)	2010 RC_{57}	2007 01 17	G96	Spacewatch
(442054)	2010 RP_{58}	2010 09 05	G96	Mt. Lemmon Survey
(442055)	2010 RB_{60}	2007 01 28	691	Spacewatch
(442056)	2010 RB_{61}	2010 09 06	691	Spacewatch
(442057)	2010 RC_{62}	2010 09 07	J75	OAM
(442058)	2010 RN_{107}	2010 09 10	691	Spacewatch
(442059)	2010 RN_{110}	2005 11 06	691	Mt. Lemmon Survey
(442060)	2010 RS_{111}	2010 09 11	691	Spacewatch
(442061)	2010 RF_{113}	2008 03 10	691	Spacewatch
(442062)	2010 RA_{115}	2010 09 11	691	Spacewatch
(442063)	2010 RB_{124}	2010 09 11	G96	Mt. Lemmon Survey
(442064)	2010 RU_{134}	2009 03 18	J75	Spacewatch
(442065)	2010 RH_{136}	1999 10 10	691	Spacewatch
(442066)	2010 RQ_{142}	2010 08 06	691	Spacewatch
(442067)	2010 RD_{144}	2003 04 26	691	CINEOS
(442068)	2010 RE_{144}	2010 09 10	691	Spacewatch
(442069)	2010 RP_{149}	2010 09 15	691	Spacewatch
(442070)	2010 RC_{150}	2010 09 15	691	Spacewatch
(442071)	2010 RV_{151}	2005 10 30	691	Spacewatch
(442072)	2010 RX_{154}	2010 09 15	691	Spacewatch
(442073)	2010 RA_{155}	2010 09 15	691	Spacewatch
(442074)	2010 RL_{158}	2007 01 17	G96	Spacewatch
(442075)	2010 RX_{164}	2007 01 10	152	Spacewatch
(442076)	2010 RX_{175}	2010 09 10	691	Spacewatch
(442077)	2010 RE_{176}	2010 09 10	691	Spacewatch
(442078)	2010 RB_{178}	1999 11 05	691	Spacewatch
(442079)	2010 RA_{180}	2003 04 05	H15	Spacewatch
(442080)	2010 SD_{8}	2008 03 05	G96	Mt. Lemmon Survey
(442081)	2010 SO_{15}	2002 01 14	691	Spacewatch
(442082)	2010 SF_{20}	2010 09 14	691	Spacewatch
(442083)	2010 SQ_{21}	1999 09 14	691	Spacewatch
(442084)	2010 SZ_{33}	2005 10 31	H21	Mt. Lemmon Survey
(442085)	2010 SE_{37}	2007 03 10	703	Mt. Lemmon Survey
(442086)	2010 SR_{38}	2006 01 25	703	CSS
(442087)	2010 SF_{39}	2010 09 17	703	CSS
(442088)	2010 TL_{1}	1999 10 03	691	Spacewatch
(442089)	2010 TO_{8}	2010 09 02	691	Mt. Lemmon Survey
(442090)	2010 TT_{14}	2007 02 21	691	Spacewatch
(442091)	2010 TQ_{26}	2010 09 19	691	Spacewatch
(442092)	2010 TK_{28}	2008 03 12	691	Spacewatch
(442093)	2010 TR_{28}	2005 11 03	691	Mt. Lemmon Survey
(442094)	2010 TA_{34}	2007 03 14	691	Mt. Lemmon Survey
(442095)	2010 TP_{39}	2005 12 01	691	Mt. Lemmon Survey
(442096)	2010 TG_{53}	2005 11 30	691	Spacewatch
(442097)	2010 TX_{65}	2005 10 25	691	Spacewatch
(442098)	2010 TQ_{67}	2005 10 06	691	Spacewatch
(442099)	2010 TD_{69}	2010 07 06	691	WISE
(442100)	2010 TR_{70}	2005 10 22	691	Spacewatch
(442101)	2010 TQ_{75}	2005 10 27	691	Mt. Lemmon Survey
(442102)	2010 TR_{75}	2010 09 17	691	Spacewatch
(442103)	2010 TW_{84}	2010 09 11	691	Spacewatch
(442104)	2010 TQ_{98}	2005 12 01	691	Mt. Lemmon Survey
(442105)	2010 TR_{98}	2005 11 01	691	Mt. Lemmon Survey
(442106)	2010 TS_{99}	2010 09 16	691	Spacewatch
(442107)	2010 TX_{99}	2005 12 01	G92	Spacewatch
(442108)	2010 TC_{135}	2010 10 11	G96	Mt. Lemmon Survey
(442109)	2010 TR_{144}	2005 11 26	G96	Spacewatch
(442110)	2010 TM_{154}	2010 09 30	691	CSS

(442111)	2010 TS_{157}	2005 10 24	691	Spacewatch
(442112)	2010 TH_{159}	2010 09 17	G96	Spacewatch
(442113)	2010 TE_{161}	1999 10 31	G96	Spacewatch
(442114)	2010 TG_{161}	2010 10 10	G96	Spacewatch
(442115)	2010 TE_{166}	2010 10 09	703	CSS
(442116)	2010 TA_{169}	2006 12 13	A77	Mt. Lemmon Survey
(442117)	2010 TK_{173}	2004 08 15	H15	CINEOS
(442118)	2010 TP_{174}	2010 09 18	703	Mt. Lemmon Survey
(442119)	2010 TR_{174}	2010 10 07	703	CSS
(442120)	2010 TA_{177}	2005 11 10	703	CSS
(442121)	2010 TR_{177}	2010 10 01	703	CSS
(442122)	2010 TL_{178}	2010 09 15	691	Spacewatch
(442123)	2010 TT_{178}	2008 03 11	691	Spacewatch
(442124)	2010 TQ_{179}	2008 03 30	G96	Spacewatch
(442125)	2010 TS_{184}	1993 10 08	I41	Spacewatch
(442126)	2010 TZ_{185}	2007 02 21	I41	Mt. Lemmon Survey
(442127)	2010 UL_{11}	2005 11 25	703	Spacewatch
(442128)	2010 UY_{26}	2010 08 12	G96	Spacewatch
(442129)	2010 UA_{27}	2004 10 07	G96	LONEOS
(442130)	2010 UK_{31}	2004 09 11	703	Spacewatch
(442131)	2010 UB_{33}	2005 11 30	G96	Spacewatch
(442132)	2010 UE_{33}	2010 10 29	G96	Mt. Lemmon Survey
(442133)	2010 UX_{37}	2010 09 16	461	CSS
(442134)	2010 UW_{42}	1999 11 01	G96	Spacewatch
(442135)	2010 UK_{69}	2010 07 21	703	WISE
(442136)	2010 US_{78}	2010 09 03	G96	Mt. Lemmon Survey
(442137)	2010 UQ_{82}	2010 08 09	691	WISE
(442138)	2010 UR_{82}	1999 09 14	691	CSS
(442139)	2010 UW_{92}	2004 09 11	G96	LINEAR
(442140)	2010 UE_{93}	2005 12 30	G96	Mt. Lemmon Survey
(442141)	2010 UX_{94}	2010 10 12	703	Mt. Lemmon Survey
(442142)	2010 UJ_{98}	2007 02 21	H21	Spacewatch
(442143)	2010 UF_{99}	2010 09 11	461	Mt. Lemmon Survey
(442144)	2010 VA_{31}	2010 09 11	G96	Mt. Lemmon Survey
(442145)	2010 VZ_{48}	2005 10 11	691	Spacewatch
(442146)	2010 VH_{59}	2010 11 04	G96	Mt. Lemmon Survey
(442147)	2010 VK_{59}	2010 08 06	G96	WISE
(442148)	2010 VC_{62}	2007 05 25	703	Mt. Lemmon Survey
(442149)	2010 VB_{106}	2004 10 09	G96	LONEOS
(442150)	2010 VV_{117}	2005 12 30	691	Spacewatch
(442151)	2010 VW_{121}	2004 10 07	G96	Spacewatch
(442152)	2010 VV_{183}	2005 12 04	G96	Spacewatch
(442153)	2010 VO_{188}	2001 02 16	G96	Spacewatch
(442154)	2010 VB_{191}	2005 12 08	703	Spacewatch
(442155)	2010 VA_{195}	2004 05 12	704	Siding Spring Survey
(442156)	2010 VC_{198}	2005 11 10	703	Mt. Lemmon Survey
(442157)	2010 VT_{198}	2010 09 05	691	Mt. Lemmon Survey
(442158)	2010 VF_{201}	2006 01 06	703	CSS
(442159)	2010 VD_{203}	2007 02 23	I41	Spacewatch
(442160)	2010 VY_{203}	2010 10 09	I41	CSS
(442161)	2010 VB_{204}	2004 08 21	I41	Spacewatch
(442162)	2010 VG_{204}	2005 09 30	I41	Mt. Lemmon Survey
(442163)	2010 VN_{204}	2005 11 12	I41	Spacewatch
(442164)	2010 VM_{205}	2004 08 23	I41	Spacewatch
(442165)	2010 VU_{205}	2004 10 08	I41	Spacewatch
(442166)	2010 VK_{206}	2005 11 30	I41	Spacewatch
(442167)	2010 VR_{206}	2004 09 17	I41	Spacewatch
(442168)	2010 VJ_{210}	2004 09 12	I41	Spacewatch
(442169)	2010 VG_{212}	2010 11 07	I41	Spacewatch
(442170)	2010 VE_{220}	2005 12 27	I41	Spacewatch
(442171)	2010 WV_{11}	2005 12 04	G96	Mt. Lemmon Survey
(442172)	2010 WB_{50}	2002 11 15	703	LINEAR
(442173)	2010 WV_{51}	2010 11 28	G96	Mt. Lemmon Survey
(442174)	2010 WY_{61}	2004 11 03	G96	Spacewatch
(442175)	2010 WR_{74}	2003 05 02	I41	Spacewatch
(442176)	2010 XQ_{1}	1999 10 03	G96	Spacewatch
(442177)	2010 XC_{24}	2010 12 07	G96	Mt. Lemmon Survey
(442178)	2010 XH_{40}	2006 01 22	G96	CSS
(442179)	2010 XG_{45}	2005 12 28	G92	Spacewatch
(442180)	2010 XM_{83}	2006 02 25	G96	CSS
(442181)	2011 AC_{16}	2011 01 03	703	CSS
(442182)	2011 AL_{75}	2004 02 22	703	LINEAR
(442183)	2011 CX_{117}	2004 04 13	I41	Spacewatch
(442184)	2011 DB_{23}	2011 02 11	691	Mt. Lemmon Survey
(442185)	2011 EY_{9}	2009 09 25	G96	Spacewatch
(442186)	2011 EP_{45}	2008 04 30	691	Mt. Lemmon Survey
(442187)	2011 EB_{50}	2006 11 22	H15	Spacewatch
(442188)	2011 ED_{53}	2011 03 09	691	Spacewatch
(442189)	2011 ER_{54}	2011 01 08	D29	Mt. Lemmon Survey
(442190)	2011 EC_{72}	2004 03 17	691	Spacewatch
(442191)	2011 EG_{74}	2011 03 11	691	Spacewatch
(442192)	2011 EG_{78}	2006 11 19	703	Spacewatch
(442193)	2011 EB_{82}	1996 09 15	G96	Spacewatch
(442194)	2011 FP_{7}	2004 04 12	691	Spacewatch
(442195)	2011 FP_{13}	2007 03 07	691	Mt. Lemmon Survey
(442196)	2011 FP_{56}	2004 05 15	691	LINEAR
(442197)	2011 FS_{56}	2009 10 16	691	Mt. Lemmon Survey
(442198)	2011 FW_{56}	2005 10 28	691	Spacewatch
(442199)	2011 FH_{67}	2008 05 06	G96	Mt. Lemmon Survey
(442200)	2011 FZ_{71}	2004 01 30	H15	Spacewatch
(442201)	2011 FA_{147}	2011 03 11	F51	Mt. Lemmon Survey
(442202)	2011 GV_{30}	2011 04 01	691	Spacewatch
(442203)	2011 GW_{31}	2001 09 19	691	Spacewatch
(442204)	2011 GZ_{47}	2004 02 12	F51	Spacewatch
(442205)	2011 GL_{52}	2005 08 31	G96	Spacewatch
(442206)	2011 GM_{67}	2011 03 26	703	Mt. Lemmon Survey
(442207)	2011 GX_{69}	2011 03 26	691	Spacewatch
(442208)	2011 GL_{72}	2011 04 11	G96	Mt. Lemmon Survey
(442209)	2011 GJ_{77}	2004 05 13	F51	Spacewatch
(442210)	2011 GK_{85}	2011 03 27	G96	Mt. Lemmon Survey
(442211)	2011 HP_{5}	2004 06 16	F51	Spacewatch
(442212)	2011 HN_{12}	2007 02 06	691	Mt. Lemmon Survey
(442213)	2011 HR_{14}	2011 04 01	F51	Spacewatch
(442214)	2011 HS_{17}	2007 02 17	691	Mt. Lemmon Survey

(442215)	2011 HZ_{17}	2011 03 28	691	Spacewatch
(442216)	2011 HD_{18}	2011 04 22	691	Spacewatch
(442217)	2011 HR_{25}	2006 12 14	F51	Mt. Lemmon Survey
(442218)	2011 HB_{37}	2011 04 01	F51	Spacewatch
(442219)	2011 HZ_{48}	2011 04 27	F51	Spacewatch
(442220)	2011 HT_{63}	2011 04 24	691	Spacewatch
(442221)	2011 HB_{100}	2011 04 02	F51	Spacewatch
(442222)	2011 JA_{29}	2011 04 05	G96	Mt. Lemmon Survey
(442223)	2011 KX	2004 08 21	G96	Siding Spring Survey
(442224)	2011 KS_{6}	2004 04 21	G96	Spacewatch
(442225)	2011 KQ_{7}	2007 02 25	691	Mt. Lemmon Survey
(442226)	2011 KG_{26}	2005 11 25	F51	Mt. Lemmon Survey
(442227)	2011 KA_{31}	2004 07 21	G96	Siding Spring Survey
(442228)	2011 KH_{31}	2007 03 20	F51	Mt. Lemmon Survey
(442229)	2011 KP_{44}	2007 01 17	691	Spacewatch
(442230)	2011 KW_{44}	2007 02 21	691	Spacewatch
(442231)	2011 KJ_{46}	2009 11 09	F51	Mt. Lemmon Survey
(442232)	2011 LQ_{4}	2007 06 09	621	Spacewatch
(442233)	2011 LR_{9}	2011 06 06	G96	Mt. Lemmon Survey
(442234)	2011 LA_{11}	2011 05 27	691	Spacewatch
(442235)	2011 LT_{14}	2009 12 10	G96	Mt. Lemmon Survey
(442236)	2011 LC_{18}	2007 03 10	G96	Mt. Lemmon Survey
(442237)	2011 LF_{19}	2007 10 15	G96	Mt. Lemmon Survey
(442238)	2011 LL_{19}	2011 06 07	703	CSS
(442239)	2011 LK_{28}	2011 03 31	F51	Mt. Lemmon Survey
(442240)	2011 MT_{4}	1998 09 20	G96	LONEOS
(442241)	2011 MM_{6}	2008 10 21	G96	Mt. Lemmon Survey
(442242)	2011 MT_{10}	2011 06 25	G96	Mt. Lemmon Survey
(442243)	2011 MD_{11}	2011 06 26	E12	Siding Spring Survey
(442244)	2011 OD_{2}	2006 04 25	F51	Siding Spring Survey
(442245)	2011 OA_{4}	2006 02 24	F51	Spacewatch
(442246)	2011 OG_{4}	2006 01 23	J75	Spacewatch
(442247)	2011 OS_{11}	2006 01 25	F51	Spacewatch
(442248)	2011 OW_{15}	2011 06 26	A77	Mt. Lemmon Survey
(442249)	2011 OE_{19}	2004 12 16	A77	Spacewatch
(442250)	2011 OG_{23}	2010 02 13	F51	CSS
(442251)	2011 ON_{27}	2008 12 30	F51	Mt. Lemmon Survey
(442252)	2011 OC_{56}	2008 11 18	F51	Spacewatch
(442253)	2011 PR_{1}	2003 10 03	J75	Spacewatch
(442254)	2011 PL_{2}	2004 12 20	F51	Mt. Lemmon Survey
(442255)	2011 PL_{3}	2008 12 04	F51	Mt. Lemmon Survey
(442256)	2011 PQ_{7}	2007 10 11	F51	CSS
(442257)	2011 PF_{8}	2007 09 15	F51	Spacewatch
(442258)	2011 PH_{8}	1998 08 25	F51	ODAS
(442259)	2011 PW_{13}	2008 11 21	A50	Spacewatch
(442260)	2011 QH_{6}	2007 09 03	F51	Mt. Lemmon Survey
(442261)	2011 QA_{13}	2004 12 15	704	Spacewatch
(442262)	2011 QR_{19}	2005 02 02	F51	CSS
(442263)	2011 QN_{25}	2007 10 05	F51	Spacewatch
(442264)	2011 QP_{35}	2010 07 12	J75	WISE
(442265)	2011 QF_{38}	2007 09 14	J75	Mt. Lemmon Survey
(442266)	2011 QS_{39}	2007 09 14	A77	Mt. Lemmon Survey
(442267)	2011 QD_{40}	2007 09 03	F51	CSS
(442268)	2011 QL_{45}	2010 03 15	F51	Spacewatch
(442269)	2011 QO_{51}	2007 06 17	A50	Spacewatch
(442270)	2011 QK_{54}	2007 10 11	F51	Mt. Lemmon Survey
(442271)	2011 QJ_{55}	2007 12 04	F51	Mt. Lemmon Survey
(442272)	2011 QB_{62}	2010 02 17	F51	Spacewatch
(442273)	2011 QX_{69}	2004 11 11	E12	Spacewatch
(442274)	2011 QR_{72}	2011 08 01	F51	Siding Spring Survey
(442275)	2011 QR_{91}	2007 10 09	F51	Spacewatch
(442276)	2011 QN_{92}	2005 03 09	F51	Spacewatch
(442277)	2011 QH_{97}	2000 09 28	461	LINEAR
(442278)	2011 RL	2007 08 08	H36	LINEAR
(442279)	2011 RS_{1}	2007 10 08	F51	Spacewatch
(442280)	2011 RE_{2}	2007 09 14	F51	Mt. Lemmon Survey
(442281)	2011 RL_{3}	2009 05 01	F51	Mt. Lemmon Survey
(442282)	2011 RJ_{10}	2007 10 15	F51	Spacewatch
(442283)	2011 RL_{10}	2007 11 20	F51	Mt. Lemmon Survey
(442284)	2011 RO_{15}	2007 10 13	F51	CSS
(442285)	2011 SD_{1}	2009 02 19	F51	Spacewatch
(442286)	2011 SD_{3}	2007 09 13	F51	Spacewatch
(442287)	2011 SK_{7}	2009 02 26	G96	Spacewatch
(442288)	2011 SX_{8}	2005 04 07	G96	Spacewatch
(442289)	2011 SD_{12}	2007 11 07	J75	CSS
(442290)	2011 SA_{15}	2004 12 11	G96	Spacewatch
(442291)	2011 SZ_{20}	2003 12 21	F51	Spacewatch
(442292)	2011 SB_{21}	2004 12 18	F51	Mt. Lemmon Survey
(442293)	2011 SL_{23}	2009 03 02	G96	Mt. Lemmon Survey
(442294)	2011 SU_{24}	2011 09 20	C32	CSS
(442295)	2011 SY_{25}	2003 10 01	A13	Spacewatch
(442296)	2011 SJ_{30}	2007 10 20	G96	Mt. Lemmon Survey
(442297)	2011 SJ_{36}	2010 05 14	691	Mt. Lemmon Survey
(442298)	2011 SQ_{40}	2007 11 19	114	Mt. Lemmon Survey
(442299)	2011 SR_{45}	2010 04 05	G96	Spacewatch
(442300)	2011 SX_{51}	1998 10 13	A14	Spacewatch
(442301)	2011 SF_{54}	2008 01 11	F51	Spacewatch
(442302)	2011 SB_{57}	2005 09 13	F51	Spacewatch
(442303)	2011 SO_{57}	2011 09 23	G96	Mt. Lemmon Survey
(442304)	2011 SS_{59}	2007 10 20	G96	CSS
(442305)	2011 SF_{60}	2007 09 20	703	CSS
(442306)	2011 SN_{62}	2003 10 25	F51	Spacewatch
(442307)	2011 SC_{67}	2011 09 22	691	Spacewatch
(442308)	2011 SC_{72}	2010 05 05	G96	Mt. Lemmon Survey
(442309)	2011 SC_{73}	2010 07 03	G96	WISE
(442310)	2011 SX_{78}	2007 10 06	G96	Spacewatch
(442311)	2011 SK_{79}	2010 03 15	G96	Mt. Lemmon Survey
(442312)	2011 SL_{96}	2002 08 11	703	LINEAR
(442313)	2011 SG_{97}	2011 09 20	691	Spacewatch
(442314)	2011 SS_{100}	2007 11 05	G96	Spacewatch
(442315)	2011 SO_{105}	2007 10 16	691	CSS
(442316)	2011 SM_{111}	2006 05 26	G96	Mt. Lemmon Survey
(442317)	2011 SA_{115}	2011 09 20	691	CSS
(442318)	2011 SW_{118}	2010 06 19	F51	Mt. Lemmon Survey

(442319)	2011 SF_{121}	1977 10 11	691	van Houten & Gehrels
(442320)	2011 SH_{126}	2011 09 20	F51	Spacewatch
(442321)	2011 SA_{129}	1998 07 17	F51	ODAS
(442322)	2011 SZ_{129}	2007 12 17	F51	Mt. Lemmon Survey
(442323)	2011 SM_{132}	2011 09 23	691	Spacewatch
(442324)	2011 SP_{133}	2010 03 25	691	Mt. Lemmon Survey
(442325)	2011 SY_{133}	2007 11 07	691	Spacewatch
(442326)	2011 SR_{134}	2007 11 04	G89	Siding Spring Survey
(442327)	2011 SO_{144}	2007 12 30	J04	Mt. Lemmon Survey
(442328)	2011 SQ_{144}	2007 11 09	J04	Spacewatch
(442329)	2011 SY_{159}	2007 10 21	691	Mt. Lemmon Survey
(442330)	2011 SY_{162}	2011 09 23	691	Spacewatch
(442331)	2011 SD_{163}	1996 05 13	691	Spacewatch
(442332)	2011 SK_{166}	2011 09 26	691	Spacewatch
(442333)	2011 SX_{173}	2007 09 25	704	Mt. Lemmon Survey
(442334)	2011 SU_{174}	2011 09 20	704	Spacewatch
(442335)	2011 SJ_{175}	2007 12 16	F51	CSS
(442336)	2011 SN_{177}	2011 09 28	850	Spacewatch
(442337)	2011 SN_{178}	2011 09 22	691	Spacewatch
(442338)	2011 SK_{179}	1997 10 02	691	ODAS
(442339)	2011 SR_{179}	2011 09 26	691	Spacewatch
(442340)	2011 SP_{183}	2005 05 11	691	Mt. Lemmon Survey
(442341)	2011 SB_{193}	2007 11 05	G96	Mt. Lemmon Survey
(442342)	2011 SR_{202}	2007 09 14	G96	Mt. Lemmon Survey
(442343)	2011 SR_{207}	2007 10 12	F51	LINEAR
(442344)	2011 SW_{207}	2007 09 09	F51	Spacewatch
(442345)	2011 SZ_{207}	2007 10 12	F51	Mt. Lemmon Survey
(442346)	2011 SW_{208}	2007 11 18	691	Mt. Lemmon Survey
(442347)	2011 SF_{209}	2007 10 15	703	Mt. Lemmon Survey
(442348)	2011 ST_{212}	2009 01 01	F51	Spacewatch
(442349)	2011 SH_{221}	2007 10 12	F51	Mt. Lemmon Survey
(442350)	2011 SJ_{224}	2011 09 28	G96	Mt. Lemmon Survey
(442351)	2011 SF_{228}	2007 11 05	G96	Spacewatch
(442352)	2011 SP_{228}	2005 03 11	G96	Mt. Lemmon Survey
(442353)	2011 SF_{229}	1998 10 14	G96	ODAS
(442354)	2011 SW_{229}	2007 10 14	704	CSS
(442355)	2011 SE_{230}	2011 09 08	F51	Spacewatch
(442356)	2011 SG_{230}	2007 10 14	F51	Mt. Lemmon Survey
(442357)	2011 SV_{230}	2008 01 13	G96	Mt. Lemmon Survey
(442358)	2011 SL_{231}	2005 03 04	A14	Spacewatch
(442359)	2011 SC_{233}	2011 07 03	704	Mt. Lemmon Survey
(442360)	2011 SR_{233}	1994 10 28	621	Spacewatch
(442361)	2011 SD_{234}	2000 02 03	704	Spacewatch
(442362)	2011 ST_{241}	2004 01 17	G96	Spacewatch
(442363)	2011 SN_{245}	2007 10 20	G96	Mt. Lemmon Survey
(442364)	2011 SD_{250}	1996 01 13	G96	Spacewatch
(442365)	2011 SJ_{250}	2006 04 26	691	Spacewatch
(442366)	2011 SP_{250}	2007 11 18	B86	Mt. Lemmon Survey
(442367)	2011 SD_{256}	1998 09 14	691	Spacewatch
(442368)	2011 SO_{256}	1998 09 12	G96	Spacewatch
(442369)	2011 SB_{257}	2007 12 31	691	Spacewatch
(442370)	2011 SJ_{259}	2011 09 26	691	Spacewatch
(442371)	2011 SS_{272}	2004 11 12	I41	CSS
(442372)	2011 SF_{273}	2004 12 20	I41	Mt. Lemmon Survey
(442373)	2011 SW_{273}	2008 01 13	I41	Mt. Lemmon Survey
(442374)	2011 TS_{2}	2007 11 02	691	Spacewatch
(442375)	2011 TY_{2}	2007 11 09	B01	Spacewatch
(442376)	2011 TJ_{3}	2004 02 16	B01	Spacewatch
(442377)	2011 TB_{5}	2007 12 03	461	Spacewatch
(442378)	2011 TK_{17}	2007 12 04	I41	Mt. Lemmon Survey
(442379)	2011 UQ_{1}	2005 05 04	691	Mt. Lemmon Survey
(442380)	2011 UH_{3}	2008 01 19	703	Mt. Lemmon Survey
(442381)	2011 UA_{9}	2006 04 30	G96	Spacewatch
(442382)	2011 UF_{13}	2011 09 21	691	Spacewatch
(442383)	2011 US_{16}	2007 12 18	G96	Mt. Lemmon Survey
(442384)	2011 UA_{19}	2008 01 12	G96	Spacewatch
(442385)	2011 UD_{22}	2006 07 25	691	Mt. Lemmon Survey
(442386)	2011 UB_{24}	2011 09 29	691	Spacewatch
(442387)	2011 UR_{25}	2009 04 24	691	Mt. Lemmon Survey
(442388)	2011 UX_{26}	2003 12 18	691	Spacewatch
(442389)	2011 UH_{27}	2011 10 17	691	Spacewatch
(442390)	2011 UJ_{30}	2011 10 18	G96	Mt. Lemmon Survey
(442391)	2011 UY_{35}	2002 11 07	G96	Spacewatch
(442392)	2011 UL_{37}	2006 04 30	B74	Spacewatch
(442393)	2011 UT_{39}	2011 09 20	G96	Spacewatch
(442394)	2011 UR_{41}	2011 09 21	G96	Spacewatch
(442395)	2011 UC_{42}	2011 09 21	G96	Spacewatch
(442396)	2011 UK_{44}	2006 09 18	G96	CSS
(442397)	2011 UV_{44}	2006 08 28	G96	Spacewatch
(442398)	2011 UA_{48}	2011 10 18	691	Spacewatch
(442399)	2011 UL_{49}	2008 01 13	691	Mt. Lemmon Survey
(442400)	2011 UQ_{54}	2007 12 30	G96	Mt. Lemmon Survey
(442401)	2011 UP_{56}	2011 10 18	G96	Spacewatch
(442402)	2011 UF_{57}	2011 09 28	J75	Spacewatch
(442403)	2011 UQ_{58}	2011 09 28	G96	Spacewatch
(442404)	2011 UG_{66}	2005 04 07	G96	Spacewatch
(442405)	2011 UO_{67}	2007 10 21	G96	Spacewatch
(442406)	2011 UT_{72}	2009 03 17	G96	Spacewatch
(442407)	2011 UH_{76}	2007 12 04	691	Mt. Lemmon Survey
(442408)	2011 UG_{81}	2006 08 21	691	Spacewatch
(442409)	2011 UJ_{81}	2006 09 30	691	Mt. Lemmon Survey
(442410)	2011 UF_{88}	2011 10 21	G96	Mt. Lemmon Survey
(442411)	2011 UL_{98}	2011 10 20	691	Spacewatch
(442412)	2011 UL_{102}	2006 09 28	G96	Spacewatch
(442413)	2011 UJ_{104}	2011 09 22	F51	Spacewatch
(442414)	2011 UZ_{106}	2011 10 18	703	CSS
(442415)	2011 UH_{108}	2011 10 23	704	LINEAR
(442416)	2011 UV_{111}	2011 10 01	G96	Spacewatch
(442417)	2011 UX_{112}	2010 04 28	691	WISE
(442418)	2011 UP_{117}	2007 10 19	691	Mt. Lemmon Survey
(442419)	2011 US_{117}	2007 09 10	H15	Mt. Lemmon Survey
(442420)	2011 UR_{120}	2011 09 30	691	Spacewatch
(442421)	2011 UN_{125}	2000 03 27	G96	Spacewatch
(442422)	2011 UU_{125}	2011 09 23	691	Spacewatch

(442423)	2011 UE_{126}	2011 10 20	691	Spacewatch
(442424)	2011 UA_{129}	2007 12 16	G96	Mt. Lemmon Survey
(442425)	2011 UE_{130}	2005 04 01	G96	Spacewatch
(442426)	2011 US_{130}	2000 01 05	F51	Spacewatch
(442427)	2011 UV_{131}	2011 10 20	691	Spacewatch
(442428)	2011 UW_{135}	1998 09 28	691	Spacewatch
(442429)	2011 UX_{138}	2006 08 21	691	Spacewatch
(442430)	2011 UE_{139}	2008 01 15	691	Mt. Lemmon Survey
(442431)	2011 UJ_{142}	2007 12 04	G96	Mt. Lemmon Survey
(442432)	2011 UL_{144}	2006 09 15	691	Spacewatch
(442433)	2011 UV_{144}	2005 11 21	703	CSS
(442434)	2011 UV_{148}	2002 10 03	691	LINEAR
(442435)	2011 UC_{150}	2007 10 10	691	Mt. Lemmon Survey
(442436)	2011 UE_{157}	2008 02 13	691	Spacewatch
(442437)	2011 US_{157}	2007 11 05	691	Mt. Lemmon Survey
(442438)	2011 UC_{158}	2005 11 25	F51	Spacewatch
(442439)	2011 UU_{159}	1994 11 28	704	Spacewatch
(442440)	2011 UO_{162}	2011 10 24	G96	Mt. Lemmon Survey
(442441)	2011 UC_{164}	2002 09 06	F51	LINEAR
(442442)	2011 UD_{169}	2006 04 02	F51	Spacewatch
(442443)	2011 UZ_{186}	2007 11 02	F51	Mt. Lemmon Survey
(442444)	2011 UK_{189}	2007 11 02	G96	Spacewatch
(442445)	2011 UR_{194}	2007 11 04	G96	Spacewatch
(442446)	2011 UX_{194}	2008 03 01	G96	Spacewatch
(442447)	2011 UG_{197}	2006 11 15	F51	Spacewatch
(442448)	2011 UT_{200}	2011 09 26	F51	Spacewatch
(442449)	2011 UR_{208}	2010 05 16	G96	Mt. Lemmon Survey
(442450)	2011 UQ_{228}	2006 09 26	G96	Spacewatch
(442451)	2011 US_{228}	2011 09 21	G96	Spacewatch
(442452)	2011 UV_{233}	2009 03 02	703	Mt. Lemmon Survey
(442453)	2011 UX_{234}	2011 10 19	F51	Spacewatch
(442454)	2011 UZ_{235}	2006 11 11	F51	Spacewatch
(442455)	2011 UP_{243}	1994 10 26	F51	Spacewatch
(442456)	2011 UY_{246}	2004 03 23	F51	LINEAR
(442457)	2011 UY_{253}	2007 11 02	703	Spacewatch
(442458)	2011 UP_{254}	2011 09 21	691	Mt. Lemmon Survey
(442459)	2011 UU_{255}	2007 11 07	703	CSS
(442460)	2011 UW_{263}	2011 10 18	F51	CSS
(442461)	2011 UJ_{266}	2011 10 21	F51	Mt. Lemmon Survey
(442462)	2011 UO_{268}	2011 09 29	691	Mt. Lemmon Survey
(442463)	2011 UJ_{274}	2007 12 04	G96	Mt. Lemmon Survey
(442464)	2011 US_{274}	2000 02 04	G96	Spacewatch
(442465)	2011 UA_{281}	2005 09 29	F51	Siding Spring Survey
(442466)	2011 UW_{285}	2009 02 20	C32	Spacewatch
(442467)	2011 UY_{290}	2007 11 08	H15	Mt. Lemmon Survey
(442468)	2011 UK_{296}	2011 09 23	691	Spacewatch
(442469)	2011 UZ_{297}	2006 09 30	691	Mt. Lemmon Survey
(442470)	2011 UX_{298}	2011 10 21	691	Spacewatch
(442471)	2011 UM_{300}	2006 12 17	691	Mt. Lemmon Survey
(442472)	2011 UY_{303}	2009 04 20	G96	Spacewatch
(442473)	2011 US_{305}	2010 06 22	691	Mt. Lemmon Survey
(442474)	2011 UD_{309}	2006 08 28	J04	Spacewatch
(442475)	2011 UR_{309}	2011 09 24	F51	CSS
(442476)	2011 UE_{314}	2008 01 11	691	CSS
(442477)	2011 UG_{314}	2006 10 21	691	Mt. Lemmon Survey
(442478)	2011 UU_{320}	2009 03 03	H15	Spacewatch
(442479)	2011 UH_{321}	2011 10 24	H15	CSS
(442480)	2011 UM_{326}	2007 09 18	F51	Mt. Lemmon Survey
(442481)	2011 UA_{336}	2007 12 03	G96	Spacewatch
(442482)	2011 UH_{347}	2000 09 08	G96	Spacewatch
(442483)	2011 UO_{351}	2007 11 02	691	Mt. Lemmon Survey
(442484)	2011 UN_{362}	2011 10 21	G96	Mt. Lemmon Survey
(442485)	2011 UW_{369}	2006 09 25	691	Spacewatch
(442486)	2011 UH_{387}	2006 09 27	F51	CSS
(442487)	2011 UJ_{391}	2011 09 23	F51	CSS
(442488)	2011 UR_{391}	2007 11 05	F51	Mt. Lemmon Survey
(442489)	2011 UA_{397}	2003 10 18	G96	Spacewatch
(442490)	2011 VV	2011 09 30	G96	Spacewatch
(442491)	2011 VT_{1}	2000 05 24	691	Spacewatch
(442492)	2011 VY_{3}	2011 07 03	G96	Mt. Lemmon Survey
(442493)	2011 VB_{9}	2006 05 08	F51	Spacewatch
(442494)	2011 VL_{12}	2011 10 21	691	Mt. Lemmon Survey
(442495)	2011 VN_{18}	2006 07 26	J43	Siding Spring Survey
(442496)	2011 VY_{18}	2009 04 19	G96	Mt. Lemmon Survey
(442497)	2011 VK_{19}	2011 10 18	G96	Spacewatch
(442498)	2011 VJ_{22}	2006 09 17	G96	Spacewatch
(442499)	2011 VO_{22}	2007 11 08	F51	Spacewatch
(442500)	2011 WG_{2}	2008 04 06	G96	Mt. Lemmon Survey
(442501)	2011 WX_{8}	2011 11 03	G96	Spacewatch
(442502)	2011 WJ_{14}	2006 09 23	H06	Spacewatch
(442503)	2011 WK_{16}	2011 11 16	691	Spacewatch
(442504)	2011 WA_{20}	2011 11 17	G96	Mt. Lemmon Survey
(442505)	2011 WP_{21}	2006 10 11	G96	Spacewatch
(442506)	2011 WJ_{22}	2006 11 20	G96	Spacewatch
(442507)	2011 WN_{29}	2001 09 22	461	Spacewatch
(442508)	2011 WA_{42}	2011 10 27	703	CSS
(442509)	2011 WH_{47}	2007 12 05	703	Spacewatch
(442510)	2011 WB_{48}	2006 09 26	G96	Mt. Lemmon Survey
(442511)	2011 WF_{61}	2007 12 14	F51	Mt. Lemmon Survey
(442512)	2011 WQ_{65}	2010 06 24	F51	WISE
(442513)	2011 WZ_{66}	2007 12 19	461	Mt. Lemmon Survey
(442514)	2011 WR_{75}	2006 09 16	G96	CSS
(442515)	2011 WR_{78}	2008 01 18	H15	Mt. Lemmon Survey
(442516)	2011 WE_{79}	2011 10 23	F51	Spacewatch
(442517)	2011 WM_{83}	2010 05 08	F51	WISE
(442518)	2011 WM_{85}	2008 02 08	F51	Spacewatch
(442519)	2011 WN_{87}	2006 12 14	F51	Spacewatch
(442520)	2011 WU_{87}	2006 12 13	F51	Mt. Lemmon Survey
(442521)	2011 WK_{91}	2002 12 11	691	LINEAR
(442522)	2011 WZ_{91}	2002 12 06	D29	LINEAR
(442523)	2011 WU_{95}	2011 11 30	691	Spacewatch
(442524)	2011 WV_{97}	2011 11 18	F51	Spacewatch
(442525)	2011 WR_{103}	2011 10 01	G96	Mt. Lemmon Survey
(442526)	2011 WG_{104}	2008 02 02	G96	Spacewatch

(442527)	2011 WH_{106}	2011 11 29	691	Spacewatch
(442528)	2011 WB_{109}	2008 02 14	703	Mt. Lemmon Survey
(442529)	2011 WT_{121}	2006 11 28	691	Mt. Lemmon Survey
(442530)	2011 WM_{125}	2006 11 17	621	Spacewatch
(442531)	2011 WG_{126}	2011 10 18	G96	Spacewatch
(442532)	2011 WC_{127}	2006 09 28	G96	Spacewatch
(442533)	2011 WO_{133}	2006 05 27	703	CSS
(442534)	2011 WG_{134}	2005 07 02	691	Spacewatch
(442535)	2011 WA_{138}	2007 12 17	G96	Spacewatch
(442536)	2011 WB_{146}	1998 08 26	F51	Spacewatch
(442537)	2011 WE_{151}	2007 01 27	I41	Spacewatch
(442538)	2011 WJ_{151}	2010 04 09	I41	WISE
(442539)	2011 YM_{9}	2010 06 13	G96	WISE
(442540)	2011 YR_{12}	2010 05 10	G96	WISE
(442541)	2011 YQ_{13}	2004 08 11	691	Siding Spring Survey
(442542)	2011 YW_{13}	2005 09 30	G96	Spacewatch
(442543)	2011 YV_{31}	2006 11 23	691	Mt. Lemmon Survey
(442544)	2011 YE_{33}	2010 06 14	691	WISE
(442545)	2011 YZ_{33}	2010 11 04	691	Mt. Lemmon Survey
(442546)	2011 YE_{34}	2005 12 05	691	Spacewatch
(442547)	2011 YQ_{39}	2010 06 17	703	CSS
(442548)	2011 YR_{42}	2010 06 22	691	WISE
(442549)	2011 YA_{45}	2005 12 06	691	Spacewatch
(442550)	2011 YT_{56}	2007 01 24	691	Mt. Lemmon Survey
(442551)	2011 YO_{59}	2010 07 12	691	WISE
(442552)	2011 YP_{60}	2006 10 16	691	CSS
(442553)	2011 YX_{69}	2011 12 24	B74	Mt. Lemmon Survey
(442554)	2011 YW_{78}	2007 02 17	I41	Mt. Lemmon Survey
(442555)	2012 AB_{6}	2007 01 27	G96	Spacewatch
(442556)	2012 AH_{7}	2007 02 26	G96	Mt. Lemmon Survey
(442557)	2012 AH_{8}	2005 10 29	691	Mt. Lemmon Survey
(442558)	2012 AU_{8}	2012 01 02	691	Spacewatch
(442559)	2012 AU_{10}	2012 01 11	G96	Mt. Lemmon Survey
(442560)	2012 AR_{14}	2000 12 03	G96	Spacewatch
(442561)	2012 AK_{15}	2004 08 25	G96	Spacewatch
(442562)	2012 AL_{16}	1999 12 04	G96	Spacewatch
(442563)	2012 AD_{17}	2001 02 16	691	LONEOS
(442564)	2012 AP_{18}	2002 12 05	621	LINEAR
(442565)	2012 AX_{23}	2010 10 30	I41	Mt. Lemmon Survey
(442566)	2012 BL_{6}	2011 12 30	G96	Spacewatch
(442567)	2012 BU_{11}	2004 09 10	621	LINEAR
(442568)	2012 BO_{21}	2010 11 11	691	CSS
(442569)	2012 BN_{22}	2005 10 29	G96	CSS
(442570)	2012 BG_{30}	2010 07 15	F51	WISE
(442571)	2012 BW_{32}	2004 09 13	703	Spacewatch
(442572)	2012 BP_{49}	2006 12 17	G96	Mt. Lemmon Survey
(442573)	2012 BP_{73}	2007 02 08	F51	Spacewatch
(442574)	2012 BH_{74}	2002 02 20	F51	Spacewatch
(442575)	2012 BC_{79}	2001 02 19	704	LINEAR
(442576)	2012 BU_{82}	2005 12 10	F51	Spacewatch
(442577)	2012 BA_{83}	2005 11 30	F51	Spacewatch
(442578)	2012 BZ_{84}	2005 11 25	F51	Spacewatch
(442579)	2012 BQ_{87}	2010 07 23	J75	WISE
(442580)	2012 BV_{90}	2010 08 12	G96	Spacewatch
(442581)	2012 BU_{93}	2010 07 19	691	WISE
(442582)	2012 BL_{98}	2001 02 01	G96	LONEOS
(442583)	2012 BE_{102}	2010 10 28	691	CSS
(442584)	2012 BB_{103}	2010 08 13	691	WISE
(442585)	2012 BH_{103}	2010 07 14	F51	WISE
(442586)	2012 BX_{150}	2008 01 12	703	CSS
(442587)	2012 BP_{151}	2007 03 16	I41	Mt. Lemmon Survey
(442588)	2012 BK_{152}	2004 09 14	I41	LONEOS
(442589)	2012 CZ_{7}	2010 08 06	F51	WISE
(442590)	2012 CV_{8}	2004 09 10	F51	Spacewatch
(442591)	2012 CR_{9}	2005 11 01	F51	Mt. Lemmon Survey
(442592)	2012 CS_{25}	2010 08 06	F51	WISE
(442593)	2012 CU_{33}	2004 09 15	F51	Spacewatch
(442594)	2012 CM_{40}	1999 01 10	F51	Spacewatch
(442595)	2012 CJ_{43}	2010 10 13	G96	Mt. Lemmon Survey
(442596)	2012 DT_{4}	2010 11 11	106	Spacewatch
(442597)	2012 DN_{7}	2010 08 08	F51	WISE
(442598)	2012 DO_{9}	2011 12 28	F51	Mt. Lemmon Survey
(442599)	2012 DD_{13}	2007 03 13	F51	Spacewatch
(442600)	2012 DE_{24}	2004 09 12	691	Spacewatch
(442601)	2012 DC_{39}	2012 02 22	691	Spacewatch
(442602)	2012 DE_{56}	2010 06 26	G96	WISE
(442603)	2012 FC_{29}	2004 03 23	G96	Spacewatch
(442604)	2012 GR_{11}	2008 12 30	F51	Mt. Lemmon Survey
(442605)	2012 HY_{33}	2012 04 27	F51	Pan-STARRS 1
(442606)	2012 JM_{18}	2005 11 29	691	Mt. Lemmon Survey
(442607)	2012 KZ_{8}	2005 12 28	G96	Spacewatch
(442608)	2012 KD_{9}	2008 12 04	F51	Spacewatch
(442609)	2012 KU_{42}	2012 05 25	703	CSS
(442610)	2012 KS_{44}	2007 09 05	G96	Siding Spring Survey
(442611)	2012 PC_{5}	2006 12 09	F51	Spacewatch
(442612)	2012 PY_{12}	2012 08 10	691	Spacewatch
(442613)	2012 PE_{20}	2008 02 12	691	Mt. Lemmon Survey
(442614)	2012 QZ_{12}	2005 12 26	A14	Mt. Lemmon Survey
(442615)	2012 QD_{35}	2005 04 10	691	Mt. Lemmon Survey
(442616)	2012 QC_{50}	2007 01 28	703	Spacewatch
(442617)	2012 RR_{20}	2009 11 17	703	Spacewatch
(442618)	2012 RF_{21}	2008 04 14	703	Mt. Lemmon Survey
(442619)	2012 RZ_{22}	2005 12 04	691	Mt. Lemmon Survey
(442620)	2012 RD_{29}	2011 03 29	E12	Mt. Lemmon Survey
(442621)	2012 SD	2008 04 09	B74	Spacewatch
(442622)	2012 SJ_{8}	2005 09 12	G96	Spacewatch
(442623)	2012 SL_{15}	2005 08 31	691	Spacewatch
(442624)	2012 SF_{18}	2012 09 17	691	Spacewatch
(442625)	2012 SG_{18}	2011 02 22	691	Spacewatch
(442626)	2012 SH_{21}	1999 10 11	G96	LINEAR
(442627)	2012 SC_{26}	2009 11 08	G96	Mt. Lemmon Survey
(442628)	2012 SH_{50}	2006 09 27	703	Mt. Lemmon Survey
(442629)	2012 SX_{57}	2005 10 31	J43	Spacewatch
(442630)	2012 SU_{64}	2006 11 20	G96	Spacewatch

(442631)	2012 TL_{8}	2012 09 25	926	CSS
(442632)	2012 TC_{18}	2012 09 15	G96	Spacewatch
(442633)	2012 TG_{22}	2005 08 29	G96	Spacewatch
(442634)	2012 TT_{24}	1995 01 29	G96	Spacewatch
(442635)	2012 TL_{28}	2012 09 17	G96	Spacewatch
(442636)	2012 TF_{45}	2012 10 08	G96	Mt. Lemmon Survey
(442637)	2012 TQ_{49}	2004 03 19	F51	Spacewatch
(442638)	2012 TY_{53}	2005 07 11	703	Spacewatch
(442639)	2012 TB_{69}	2008 05 05	G96	Mt. Lemmon Survey
(442640)	2012 TD_{73}	2009 11 21	G96	Mt. Lemmon Survey
(442641)	2012 TS_{93}	2011 03 06	F51	Mt. Lemmon Survey
(442642)	2012 TY_{100}	2008 09 04	703	Spacewatch
(442643)	2012 TH_{101}	2009 11 17	941	Mt. Lemmon Survey
(442644)	2012 TF_{102}	2005 09 01	G96	Spacewatch
(442645)	2012 TW_{109}	2007 01 10	G96	Spacewatch
(442646)	2012 TP_{117}	2007 02 17	G96	Mt. Lemmon Survey
(442647)	2012 TP_{120}	2012 10 10	G96	Mt. Lemmon Survey
(442648)	2012 TM_{123}	2011 05 28	G53	Mt. Lemmon Survey
(442649)	2012 TU_{124}	2009 11 10	F51	Spacewatch
(442650)	2012 TZ_{125}	2005 10 06	703	Mt. Lemmon Survey
(442651)	2012 TR_{132}	2004 01 30	703	Spacewatch
(442652)	2012 TF_{136}	2006 12 12	F51	Mt. Lemmon Survey
(442653)	2012 TJ_{137}	2007 01 27	691	Mt. Lemmon Survey
(442654)	2012 TB_{150}	2012 09 16	G96	Mt. Lemmon Survey
(442655)	2012 TY_{159}	1999 09 14	F51	Spacewatch
(442656)	2012 TK_{163}	2011 03 02	F51	Spacewatch
(442657)	2012 TD_{166}	2009 11 21	F51	Mt. Lemmon Survey
(442658)	2012 TW_{179}	2008 06 03	F51	Mt. Lemmon Survey
(442659)	2012 TZ_{195}	2008 09 20	691	Mt. Lemmon Survey
(442660)	2012 TK_{197}	2001 09 18	691	Spacewatch
(442661)	2012 TF_{207}	2005 11 06	691	Spacewatch
(442662)	2012 TW_{207}	2012 10 11	691	Spacewatch
(442663)	2012 TB_{219}	2005 09 30	926	LONEOS
(442664)	2012 TS_{227}	2006 12 24	G96	Spacewatch
(442665)	2012 TY_{232}	2005 09 24	J75	LONEOS
(442666)	2012 TX_{252}	2012 09 21	F51	Mt. Lemmon Survey
(442667)	2012 TF_{275}	2009 12 10	F51	Mt. Lemmon Survey
(442668)	2012 TJ_{280}	2005 12 22	F51	CSS
(442669)	2012 TS_{285}	2005 10 01	691	Mt. Lemmon Survey
(442670)	2012 TT_{291}	2012 10 14	703	CSS
(442671)	2012 TD_{294}	2006 01 23	691	Mt. Lemmon Survey
(442672)	2012 TL_{296}	2002 05 03	691	Spacewatch
(442673)	2012 TO_{301}	2011 05 09	F51	Mt. Lemmon Survey
(442674)	2012 TJ_{302}	2012 10 08	G96	Mt. Lemmon Survey
(442675)	2012 TT_{306}	2009 12 18	926	Mt. Lemmon Survey
(442676)	2012 TR_{308}	2005 10 23	926	CSS
(442677)	2012 TM_{311}	2005 08 30	703	Spacewatch
(442678)	2012 TN_{320}	2012 10 11	703	CSS
(442679)	2012 UD_{7}	2009 12 15	G96	Mt. Lemmon Survey
(442680)	2012 UZ_{13}	1998 04 17	G96	Spacewatch
(442681)	2012 UK_{24}	2005 08 31	G96	Spacewatch
(442682)	2012 UT_{31}	2005 12 29	G96	Mt. Lemmon Survey
(442683)	2012 UL_{38}	2012 10 17	691	Spacewatch
(442684)	2012 US_{39}	2007 10 09	691	Spacewatch
(442685)	2012 UU_{42}	2012 09 23	F51	Mt. Lemmon Survey
(442686)	2012 UT_{43}	2005 11 03	G96	Mt. Lemmon Survey
(442687)	2012 UH_{46}	2005 10 30	F51	Spacewatch
(442688)	2012 UF_{48}	2008 09 27	F51	Mt. Lemmon Survey
(442689)	2012 UT_{48}	2005 10 11	F51	Spacewatch
(442690)	2012 UV_{50}	2005 10 01	F51	Spacewatch
(442691)	2012 UP_{52}	2012 10 15	F51	Spacewatch
(442692)	2012 UC_{61}	2010 04 08	G96	WISE
(442693)	2012 UD_{72}	2012 09 25	F51	Mt. Lemmon Survey
(442694)	2012 UV_{80}	2005 12 10	F51	Spacewatch
(442695)	2012 UC_{85}	1999 10 10	G96	LINEAR
(442696)	2012 UY_{94}	2002 10 03	F51	LINEAR
(442697)	2012 UT_{99}	2007 03 10	F51	Spacewatch
(442698)	2012 UV_{108}	2011 03 11	F51	Mt. Lemmon Survey
(442699)	2012 UK_{110}	2008 09 24	691	CSS
(442700)	2012 UE_{112}	2008 09 06	F51	CSS
(442701)	2012 UH_{115}	2008 08 24	G96	Spacewatch
(442702)	2012 UL_{116}	2012 09 25	G96	Mt. Lemmon Survey
(442703)	2012 UO_{117}	2005 09 30	G96	Mt. Lemmon Survey
(442704)	2012 UL_{122}	2008 09 04	F51	Spacewatch
(442705)	2012 UD_{125}	2004 11 20	F51	Spacewatch
(442706)	2012 UN_{134}	2005 12 29	G96	LINEAR
(442707)	2012 UD_{135}	2012 09 21	F51	Mt. Lemmon Survey
(442708)	2012 UK_{142}	2005 05 20	F51	Mt. Lemmon Survey
(442709)	2012 UH_{152}	2008 06 08	691	Spacewatch
(442710)	2012 UD_{154}	2012 09 21	A13	Spacewatch
(442711)	2012 UC_{159}	2005 10 12	F51	Spacewatch
(442712)	2012 UP_{159}	2010 01 07	F51	Spacewatch
(442713)	2012 UA_{162}	1995 11 28	691	Spacewatch
(442714)	2012 UJ_{163}	2012 10 08	F51	Spacewatch
(442715)	2012 UQ_{166}	2009 10 26	G96	Mt. Lemmon Survey
(442716)	2012 VH_{11}	2012 10 13	691	Spacewatch
(442717)	2012 VQ_{15}	2003 01 26	691	LONEOS
(442718)	2012 VJ_{17}	2003 11 19	703	Spacewatch
(442719)	2012 VV_{17}	2005 09 23	G96	Spacewatch
(442720)	2012 VP_{21}	2011 03 29	G96	Mt. Lemmon Survey
(442721)	2012 VB_{31}	2009 10 18	703	Mt. Lemmon Survey
(442722)	2012 VM_{31}	2012 09 25	691	Spacewatch
(442723)	2012 VK_{32}	2006 01 07	G96	Mt. Lemmon Survey
(442724)	2012 VY_{33}	2010 01 12	F51	Spacewatch
(442725)	2012 VK_{39}	2012 11 05	691	Spacewatch
(442726)	2012 VS_{49}	2012 10 21	F51	Spacewatch
(442727)	2012 VQ_{67}	2012 10 08	G96	Spacewatch
(442728)	2012 VD_{68}	2012 09 18	G96	Mt. Lemmon Survey
(442729)	2012 VE_{72}	2008 09 24	F51	Mt. Lemmon Survey
(442730)	2012 VW_{72}	1995 10 17	F51	Spacewatch
(442731)	2012 VU_{91}	2003 10 23	691	Spacewatch
(442732)	2012 VJ_{92}	2005 10 04	691	CSS
(442733)	2012 VW_{93}	2012 10 15	G96	Spacewatch
(442734)	2012 VT_{95}	2005 09 29	J04	Spacewatch

(442735)	2012 VC_{99}	2008 09 05	G96	Spacewatch
(442736)	2012 VN_{99}	2009 12 20	F51	Spacewatch
(442737)	2012 VP_{99}	2005 09 26	D03	CSS
(442738)	2012 VK_{101}	1999 10 01	F51	Spacewatch
(442739)	2012 VO_{104}	2008 04 29	F51	Spacewatch
(442740)	2012 WT_{1}	2004 12 15	850	Spacewatch
(442741)	2012 WY_{1}	2012 10 25	G96	Spacewatch
(442742)	2012 WP_{3}	2010 03 22	704	WISE
(442743)	2012 WF_{9}	1995 12 16	691	Spacewatch
(442744)	2012 WW_{13}	2008 07 02	691	Spacewatch
(442745)	2012 WG_{15}	2006 01 07	691	Mt. Lemmon Survey
(442746)	2012 WH_{15}	2012 11 19	691	Spacewatch
(442747)	2012 WO_{15}	2008 10 07	691	Mt. Lemmon Survey
(442748)	2012 WJ_{19}	2012 10 19	G96	Mt. Lemmon Survey
(442749)	2012 WX_{20}	2008 09 25	G96	Spacewatch
(442750)	2012 WG_{24}	2006 04 21	J43	Siding Spring Survey
(442751)	2012 WO_{24}	2001 09 21	J43	LINEAR
(442752)	2012 WA_{25}	2009 01 20	703	CSS
(442753)	2012 WK_{27}	2008 11 02	703	Mt. Lemmon Survey
(442754)	2012 WV_{27}	2008 09 09	691	Spacewatch
(442755)	2012 WR_{29}	2008 09 26	691	Spacewatch
(442756)	2012 WX_{31}	2005 11 26	691	Mt. Lemmon Survey
(442757)	2012 WU_{33}	2008 12 05	G96	Spacewatch
(442758)	2012 XE_{14}	2008 06 30	G84	Spacewatch
(442759)	2012 XJ_{37}	2007 09 15	G96	CSS
(442760)	2012 XV_{46}	2006 01 22	G96	Mt. Lemmon Survey
(442761)	2012 XR_{48}	2008 09 29	G96	Mt. Lemmon Survey
(442762)	2012 XJ_{51}	2012 11 06	703	Spacewatch
(442763)	2012 XG_{53}	2009 10 18	691	Spacewatch
(442764)	2012 XL_{62}	2008 09 04	G96	Spacewatch
(442765)	2012 XH_{77}	2011 07 02	G96	Mt. Lemmon Survey
(442766)	2012 XE_{81}	2008 12 31	G96	Mt. Lemmon Survey
(442767)	2012 XM_{82}	2005 12 25	G96	Mt. Lemmon Survey
(442768)	2012 XV_{92}	2005 12 30	G96	Spacewatch
(442769)	2012 XL_{93}	2012 11 13	G96	Mt. Lemmon Survey
(442770)	2012 XQ_{96}	2008 09 23	G96	Mt. Lemmon Survey
(442771)	2012 XZ_{102}	2012 10 16	691	Spacewatch
(442772)	2012 XH_{104}	2012 12 06	691	Spacewatch
(442773)	2012 XO_{105}	2007 11 04	691	Mt. Lemmon Survey
(442774)	2012 XZ_{105}	2012 11 13	691	Mt. Lemmon Survey
(442775)	2012 XH_{107}	2005 12 04	703	Spacewatch
(442776)	2012 XB_{117}	2006 01 20	704	CSS
(442777)	2012 XE_{120}	2012 12 08	691	Spacewatch
(442778)	2012 XE_{124}	2012 11 26	F51	Mt. Lemmon Survey
(442779)	2012 XO_{125}	2006 01 31	F51	Spacewatch
(442780)	2012 XT_{131}	2012 11 06	G96	Spacewatch
(442781)	2012 XL_{135}	1999 08 07	J43	Spacewatch
(442782)	2012 XY_{135}	2008 12 04	J43	Mt. Lemmon Survey
(442783)	2012 XU_{136}	2005 09 30	G96	CSS
(442784)	2012 XB_{140}	2001 10 20	G96	LINEAR
(442785)	2012 XM_{144}	1995 12 20	G96	Spacewatch
(442786)	2012 XN_{144}	2009 02 01	F51	CSS
(442787)	2012 XQ_{150}	2001 09 12	G96	LINEAR
(442788)	2012 XY_{150}	2012 12 08	691	Spacewatch
(442789)	2012 XW_{151}	2008 11 01	691	Mt. Lemmon Survey
(442790)	2012 XA_{152}	2005 12 26	691	Mt. Lemmon Survey
(442791)	2012 XE_{152}	2009 02 03	691	Mt. Lemmon Survey
(442792)	2012 XS_{152}	2004 10 04	691	Spacewatch
(442793)	2012 XJ_{154}	2010 09 16	G96	Mt. Lemmon Survey
(442794)	2012 YU_{1}	2012 11 12	J43	Mt. Lemmon Survey
(442795)	2013 AW_{7}	2008 12 21	G96	Spacewatch
(442796)	2013 AY_{7}	2001 12 17	G96	Spacewatch
(442797)	2013 AH_{8}	1997 02 15	G96	Spacewatch
(442798)	2013 AX_{8}	2004 12 19	F51	Spacewatch
(442799)	2013 AM_{14}	2000 11 20	F51	LINEAR
(442800)	2013 AS_{14}	2009 07 14	F51	Spacewatch
(442801)	2013 AZ_{18}	2009 02 19	G96	Mt. Lemmon Survey
(442802)	2013 AN_{19}	2003 12 29	G96	Spacewatch
(442803)	2013 AZ_{22}	2008 02 29	G96	Spacewatch
(442804)	2013 AJ_{28}	2005 06 08	691	Spacewatch
(442805)	2013 AL_{28}	2007 11 07	691	CSS
(442806)	2013 AO_{28}	2006 09 17	J75	Spacewatch
(442807)	2013 AQ_{28}	2005 05 09	J75	Spacewatch
(442808)	2013 AH_{33}	2005 03 17	F51	CSS
(442809)	2013 AY_{38}	1998 11 16	691	Spacewatch
(442810)	2013 AH_{41}	2008 12 29	G96	Spacewatch
(442811)	2013 AV_{41}	2009 03 21	691	Mt. Lemmon Survey
(442812)	2013 AQ_{43}	2003 12 19	691	LINEAR
(442813)	2013 AM_{44}	2007 12 16	691	Spacewatch
(442814)	2013 AD_{46}	2006 08 27	G96	Spacewatch
(442815)	2013 AK_{46}	2005 12 04	691	Spacewatch
(442816)	2013 AJ_{52}	2003 12 29	703	CSS
(442817)	2013 AE_{55}	2007 11 02	691	Spacewatch
(442818)	2013 AJ_{55}	2012 12 08	691	Spacewatch
(442819)	2013 AN_{58}	2009 02 04	691	Mt. Lemmon Survey
(442820)	2013 AF_{61}	2012 11 15	691	Mt. Lemmon Survey
(442821)	2013 AR_{63}	2010 05 28	J75	WISE
(442822)	2013 AL_{64}	2008 11 23	J43	Mt. Lemmon Survey
(442823)	2013 AR_{68}	2003 11 16	J43	Spacewatch
(442824)	2013 AP_{73}	2004 10 10	691	Spacewatch
(442825)	2013 AY_{75}	2009 03 29	621	Spacewatch
(442826)	2013 AE_{78}	2007 11 17	703	Mt. Lemmon Survey
(442827)	2013 AV_{78}	1999 10 12	F51	LINEAR
(442828)	2013 AT_{81}	2007 12 30	G96	Spacewatch
(442829)	2013 AU_{81}	2008 11 18	G96	Spacewatch
(442830)	2013 AE_{82}	2008 02 10	G96	Mt. Lemmon Survey
(442831)	2013 AD_{83}	2009 02 28	G96	Mt. Lemmon Survey
(442832)	2013 AG_{85}	2012 12 07	G96	Mt. Lemmon Survey
(442833)	2013 AP_{87}	2005 07 12	G96	Mt. Lemmon Survey
(442834)	2013 AP_{88}	2005 03 01	703	CSS
(442835)	2013 AC_{93}	2008 10 29	926	Mt. Lemmon Survey
(442836)	2013 AE_{94}	2008 09 09	703	Mt. Lemmon Survey
(442837)	2013 AZ_{96}	2005 12 27	G96	Spacewatch
(442838)	2013 AN_{97}	2007 11 19	691	Mt. Lemmon Survey

(442839)	2013 AB_{100}	2000 10 06	J43	LONEOS
(442840)	2013 AZ_{100}	2012 12 12	J43	Spacewatch
(442841)	2013 AK_{103}	2013 01 05	691	Spacewatch
(442842)	2013 AR_{108}	2008 02 09	F51	Mt. Lemmon Survey
(442843)	2013 AF_{113}	2005 06 14	G96	Mt. Lemmon Survey
(442844)	2013 AP_{116}	2006 01 21	J04	Spacewatch
(442845)	2013 AH_{117}	2008 02 02	J04	Spacewatch
(442846)	2013 AR_{118}	2007 10 09	703	Mt. Lemmon Survey
(442847)	2013 AR_{119}	2006 02 25	G96	Spacewatch
(442848)	2013 AY_{120}	2004 08 23	G96	Spacewatch
(442849)	2013 AA_{122}	2007 11 08	J04	Spacewatch
(442850)	2013 AN_{122}	2001 09 16	J04	LINEAR
(442851)	2013 AX_{123}	2008 12 30	J04	Mt. Lemmon Survey
(442852)	2013 AC_{125}	2009 03 02	J04	Spacewatch
(442853)	2013 AE_{126}	2009 01 18	G96	PMO NEO Survey Program
(442854)	2013 AR_{126}	2011 09 19	G96	Mt. Lemmon Survey
(442855)	2013 AH_{130}	2007 11 07	J04	Spacewatch
(442856)	2013 AY_{131}	2003 12 21	691	Spacewatch
(442857)	2013 AF_{135}	2009 01 18	691	Mt. Lemmon Survey
(442858)	2013 AQ_{136}	2008 12 22	F51	Spacewatch
(442859)	2013 AZ_{137}	2009 03 22	G96	Mt. Lemmon Survey
(442860)	2013 AB_{150}	2009 02 20	W84	Spacewatch
(442861)	2013 AH_{161}	2007 10 10	W84	Spacewatch
(442862)	2013 AN_{162}	2010 04 15	W84	WISE
(442863)	2013 AX_{165}	2010 06 10	W84	Spacewatch
(442864)	2013 AO_{166}	2009 04 27	W84	Spacewatch
(442865)	2013 AP_{171}	2010 05 01	W84	WISE
(442866)	2013 AR_{173}	2003 04 07	W84	Spacewatch
(442867)	2013 AT_{174}	2005 03 04	W84	Mt. Lemmon Survey
(442868)	2013 AY_{178}	2007 06 14	W84	Spacewatch
(442869)	2013 BH_{9}	2007 09 13	F51	Mt. Lemmon Survey
(442870)	2013 BL_{9}	2010 09 10	F51	Mt. Lemmon Survey
(442871)	2013 BY_{13}	2013 01 17	691	Spacewatch
(442872)	2013 BB_{15}	2005 05 07	F51	Spacewatch
(442873)	2013 BE_{15}	2000 02 03	F51	Spacewatch
(442874)	2013 BJ_{15}	2011 10 20	F51	Mt. Lemmon Survey
(442875)	2013 BA_{24}	2006 11 22	F51	Mt. Lemmon Survey
(442876)	2013 BE_{24}	2013 01 05	F51	Mt. Lemmon Survey
(442877)	2013 BX_{25}	2012 12 08	G96	Mt. Lemmon Survey
(442878)	2013 BG_{29}	2013 01 16	703	CSS
(442879)	2013 BN_{33}	2009 02 04	691	Mt. Lemmon Survey
(442880)	2013 BS_{35}	2013 01 05	F51	Mt. Lemmon Survey
(442881)	2013 BX_{37}	2004 10 10	F51	Spacewatch
(442882)	2013 BU_{38}	2008 02 10	691	Mt. Lemmon Survey
(442883)	2013 BY_{38}	2009 01 17	691	Spacewatch
(442884)	2013 BB_{39}	2008 01 19	691	Mt. Lemmon Survey
(442885)	2013 BU_{43}	2006 09 26	G96	Spacewatch
(442886)	2013 BK_{47}	2011 09 23	F51	Spacewatch
(442887)	2013 BS_{47}	2007 11 13	F51	Spacewatch
(442888)	2013 BU_{47}	2008 02 12	F51	Spacewatch
(442889)	2013 BE_{56}	2009 01 19	F51	Mt. Lemmon Survey
(442890)	2013 BN_{59}	2006 08 28	691	Spacewatch
(442891)	2013 BN_{60}	2011 09 29	G96	Mt. Lemmon Survey
(442892)	2013 BX_{63}	2010 06 07	691	WISE
(442893)	2013 BJ_{69}	2007 10 08	691	CSS
(442894)	2013 BL_{72}	2009 02 22	F51	Spacewatch
(442895)	2013 BR_{73}	2007 12 15	J43	CSS
(442896)	2013 BQ_{75}	2009 01 02	G96	Mt. Lemmon Survey
(442897)	2013 BE_{76}	2009 02 19	G96	Spacewatch
(442898)	2013 CF	2013 01 16	926	CSS
(442899)	2013 CE_{3}	2009 07 30	J43	Spacewatch
(442900)	2013 CH_{9}	2000 04 02	F51	Spacewatch
(442901)	2013 CJ_{9}	2009 02 05	F51	Mt. Lemmon Survey
(442902)	2013 CZ_{9}	2013 01 05	J43	Spacewatch
(442903)	2013 CT_{10}	2003 11 26	J43	Spacewatch
(442904)	2013 CB_{11}	2011 10 23	691	Mt. Lemmon Survey
(442905)	2013 CQ_{12}	2009 02 03	691	Spacewatch
(442906)	2013 CV_{12}	2013 02 01	691	Spacewatch
(442907)	2013 CK_{15}	2009 02 27	691	CSS
(442908)	2013 CC_{16}	1997 09 29	691	Spacewatch
(442909)	2013 CS_{19}	2007 09 18	691	Siding Spring Survey
(442910)	2013 CR_{20}	2013 01 19	J43	Mt. Lemmon Survey
(442911)	2013 CH_{25}	2003 09 28	F51	LONEOS
(442912)	2013 CR_{26}	2002 01 22	F51	Spacewatch
(442913)	2013 CA_{31}	2008 03 02	J43	Spacewatch
(442914)	2013 CA_{33}	2007 01 10	691	Spacewatch
(442915)	2013 CU_{36}	2013 01 07	G96	Spacewatch
(442916)	2013 CL_{39}	2009 01 31	691	Mt. Lemmon Survey
(442917)	2013 CU_{39}	2007 10 30	691	Mt. Lemmon Survey
(442918)	2013 CZ_{39}	2009 01 25	691	Spacewatch
(442919)	2013 CH_{42}	2004 08 23	F51	Spacewatch
(442920)	2013 CG_{43}	2009 03 29	691	Mt. Lemmon Survey
(442921)	2013 CY_{44}	2007 10 15	691	Mt. Lemmon Survey
(442922)	2013 CM_{45}	2008 02 02	691	Spacewatch
(442923)	2013 CA_{48}	2010 09 16	691	Spacewatch
(442924)	2013 CW_{48}	1998 11 18	691	Spacewatch
(442925)	2013 CF_{49}	2000 09 26	691	LINEAR
(442926)	2013 CS_{49}	2013 01 07	926	Spacewatch
(442927)	2013 CQ_{51}	2009 03 17	J43	Spacewatch
(442928)	2013 CL_{52}	2003 09 29	J43	Spacewatch
(442929)	2013 CH_{64}	2013 01 20	F51	Spacewatch
(442930)	2013 CQ_{64}	2011 10 18	F51	Spacewatch
(442931)	2013 CW_{64}	2006 12 14	F51	Spacewatch
(442932)	2013 CY_{64}	2010 07 13	F51	WISE
(442933)	2013 CA_{66}	2007 12 13	F51	LINEAR
(442934)	2013 CE_{66}	2007 10 08	F51	CSS
(442935)	2013 CR_{70}	2009 02 26	G96	Spacewatch
(442936)	2013 CL_{71}	2010 05 25	G96	WISE
(442937)	2013 CN_{72}	2010 04 09	F51	Mt. Lemmon Survey
(442938)	2013 CG_{74}	2010 09 04	691	Mt. Lemmon Survey
(442939)	2013 CO_{74}	2006 01 04	703	CSS
(442940)	2013 CZ_{74}	2013 02 05	G96	Mt. Lemmon Survey
(442941)	2013 CH_{75}	2013 02 05	926	CSS
(442942)	2013 CP_{76}	2013 01 20	703	Spacewatch

(442943)	2013 CZ_{86}	1996 01 14	D29	Spacewatch
(442944)	2013 CQ_{87}	2009 08 15	F51	Spacewatch
(442945)	2013 CL_{90}	2003 12 29	703	CSS
(442946)	2013 CM_{90}	2008 05 01	703	Spacewatch
(442947)	2013 CM_{95}	2008 02 02	F51	Spacewatch
(442948)	2013 CH_{99}	2008 02 13	F51	Spacewatch
(442949)	2013 CJ_{100}	2007 11 01	F51	Spacewatch
(442950)	2013 CM_{103}	2013 02 02	F51	Spacewatch
(442951)	2013 CU_{104}	2008 03 08	F51	Spacewatch
(442952)	2013 CZ_{104}	2006 08 19	F51	Spacewatch
(442953)	2013 CA_{114}	2004 01 28	926	Spacewatch
(442954)	2013 CL_{115}	2010 07 27	J04	WISE
(442955)	2013 CF_{116}	2008 02 11	J04	Spacewatch
(442956)	2013 CW_{116}	2004 09 11	J04	Spacewatch
(442957)	2013 CK_{119}	2005 05 10	691	Spacewatch
(442958)	2013 CG_{121}	2007 11 02	F51	Spacewatch
(442959)	2013 CA_{123}	2013 01 04	F51	Spacewatch
(442960)	2013 CQ_{123}	2005 09 24	J04	Spacewatch
(442961)	2013 CS_{124}	2013 01 21	J04	Mt. Lemmon Survey
(442962)	2013 CG_{125}	2009 03 01	J04	Spacewatch
(442963)	2013 CN_{125}	2007 02 16	J04	CSS
(442964)	2013 CB_{126}	1999 10 29	F51	Spacewatch
(442965)	2013 CP_{130}	2002 02 10	F51	Spacewatch
(442966)	2013 CC_{131}	2013 01 17	691	Mt. Lemmon Survey
(442967)	2013 CF_{131}	2006 10 21	691	Mt. Lemmon Survey
(442968)	2013 CG_{134}	2010 07 07	926	WISE
(442969)	2013 CV_{135}	1995 11 14	F51	Spacewatch
(442970)	2013 CH_{136}	2003 12 18	F51	LINEAR
(442971)	2013 CK_{136}	2007 10 18	F51	Spacewatch
(442972)	2013 CB_{137}	2007 12 04	F51	Mt. Lemmon Survey
(442973)	2013 CZ_{137}	2011 10 03	F51	PMO NEO Survey Program
(442974)	2013 CJ_{141}	2008 03 07	691	Mt. Lemmon Survey
(442975)	2013 CV_{141}	2007 12 04	691	Spacewatch
(442976)	2013 CB_{147}	2006 10 22	691	CSS
(442977)	2013 CO_{149}	2005 03 03	691	Spacewatch
(442978)	2013 CL_{150}	2013 02 14	691	Spacewatch
(442979)	2013 CH_{151}	2007 02 06	691	Spacewatch
(442980)	2013 CX_{154}	2013 01 09	G96	Mt. Lemmon Survey
(442981)	2013 CB_{155}	2008 03 13	F51	Mt. Lemmon Survey
(442982)	2013 CP_{155}	2008 01 30	F51	Mt. Lemmon Survey
(442983)	2013 CQ_{158}	2013 02 14	691	Spacewatch
(442984)	2013 CP_{159}	2008 02 08	F51	Mt. Lemmon Survey
(442985)	2013 CK_{161}	2008 02 02	F51	Mt. Lemmon Survey
(442986)	2013 CK_{165}	2006 10 21	691	Mt. Lemmon Survey
(442987)	2013 CN_{165}	2011 11 17	F51	Mt. Lemmon Survey
(442988)	2013 CK_{166}	2003 03 24	F51	Spacewatch
(442989)	2013 CB_{170}	2011 11 02	F51	Mt. Lemmon Survey
(442990)	2013 CV_{173}	2009 01 03	F51	Mt. Lemmon Survey
(442991)	2013 CO_{174}	2010 09 18	F51	Mt. Lemmon Survey
(442992)	2013 CT_{176}	2008 10 22	G96	Spacewatch
(442993)	2013 CQ_{177}	2011 09 22	F51	CSS
(442994)	2013 CM_{179}	2007 12 05	F51	Spacewatch
(442995)	2013 CM_{180}	2011 11 03	F51	Mt. Lemmon Survey
(442996)	2013 CV_{180}	2006 12 15	F51	Spacewatch
(442997)	2013 CE_{181}	2000 03 10	J04	Spacewatch
(442998)	2013 CR_{181}	1997 02 07	G96	Spacewatch
(442999)	2013 CO_{183}	1995 10 21	703	Spacewatch
(443000)	2013 CA_{187}	2007 01 10	F51	Mt. Lemmon Survey
(443001)	2013 CV_{191}	2007 02 22	G32	Spacewatch
(443002)	2013 CO_{193}	2010 06 01	F51	WISE
(443003)	2013 CA_{194}	2009 04 02	F51	Spacewatch
(443004)	2013 CU_{194}	2008 02 08	F51	Spacewatch
(443005)	2013 CL_{195}	2003 09 30	F51	Spacewatch
(443006)	2013 CX_{195}	2010 08 01	F51	WISE
(443007)	2013 CV_{198}	2011 11 18	F51	Mt. Lemmon Survey
(443008)	2013 CS_{199}	2011 11 30	F51	Mt. Lemmon Survey
(443009)	2013 CU_{201}	1998 09 14	F51	LINEAR
(443010)	2013 CE_{212}	2006 11 19	691	Spacewatch
(443011)	2013 CQ_{214}	2005 05 06	F51	Spacewatch
(443012)	2013 CE_{216}	2010 09 03	F51	Mt. Lemmon Survey
(443013)	2013 DO_{2}	2010 09 01	691	Mt. Lemmon Survey
(443014)	2013 DT_{2}	2008 12 05	G96	Spacewatch
(443015)	2013 DS_{7}	2009 02 03	G96	Mt. Lemmon Survey
(443016)	2013 DD_{11}	2008 01 31	G96	Spacewatch
(443017)	2013 DL_{11}	2008 03 01	G96	Spacewatch
(443018)	2013 EN_{4}	2005 09 29	F51	Spacewatch
(443019)	2013 EG_{10}	2007 01 28	F51	Spacewatch
(443020)	2013 EX_{10}	2010 06 28	F51	WISE
(443021)	2013 EE_{13}	2008 03 11	G96	Spacewatch
(443022)	2013 EK_{13}	2006 11 20	G96	Spacewatch
(443023)	2013 EM_{14}	2013 02 16	G96	Spacewatch
(443024)	2013 EX_{15}	2005 09 25	691	Spacewatch
(443025)	2013 EX_{22}	2008 03 12	F51	Mt. Lemmon Survey
(443026)	2013 EY_{23}	2008 01 15	691	Spacewatch
(443027)	2013 ED_{24}	2006 05 25	691	Spacewatch
(443028)	2013 EM_{25}	2004 02 16	691	Spacewatch
(443029)	2013 EY_{32}	2007 12 30	G96	Spacewatch
(443030)	2013 ET_{34}	2006 10 20	691	Spacewatch
(443031)	2013 EP_{36}	2005 11 01	F51	Mt. Lemmon Survey
(443032)	2013 EY_{36}	2010 10 03	F51	Spacewatch
(443033)	2013 EB_{40}	2013 02 14	691	CSS
(443034)	2013 EJ_{43}	2010 09 14	F51	Spacewatch
(443035)	2013 EJ_{59}	1995 05 04	F51	Spacewatch
(443036)	2013 EN_{65}	2013 02 14	493	Spacewatch
(443037)	2013 EY_{65}	2003 10 05	691	Spacewatch
(443038)	2013 EZ_{67}	2007 02 16	703	Mt. Lemmon Survey
(443039)	2013 ET_{81}	2004 03 15	F51	Spacewatch
(443040)	2013 EA_{90}	2007 02 09	F51	CSS
(443041)	2013 EM_{94}	2013 02 07	F51	CSS
(443042)	2013 EN_{95}	2006 10 21	F51	Spacewatch
(443043)	2013 ES_{101}	2010 09 18	H15	Mt. Lemmon Survey
(443044)	2013 EX_{102}	2003 12 17	461	Spacewatch
(443045)	2013 EJ_{104}	2004 10 11	G96	Spacewatch
(443046)	2013 EX_{104}	2005 03 08	703	LONEOS

(443047)	2013 EX_{106}	2006 12 25	I41	Spacewatch
(443048)	2013 EK_{109}	2002 03 21	G96	Spacewatch
(443049)	2013 EK_{110}	2005 10 07	G96	Spacewatch
(443050)	2013 EV_{111}	2010 11 09	691	CSS
(443051)	2013 EA_{114}	2008 12 29	I41	Mt. Lemmon Survey
(443052)	2013 EN_{119}	2007 01 10	F51	Spacewatch
(443053)	2013 EP_{119}	2006 08 28	691	Spacewatch
(443054)	2013 ES_{126}	2010 06 30	I41	WISE
(443055)	2013 EP_{138}	2011 10 24	695	Mt. Lemmon Survey
(443056)	2013 FG_{6}	2010 07 14	I41	WISE
(443057)	2013 FU_{7}	2006 01 02	I41	Mt. Lemmon Survey
(443058)	2013 FK_{11}	2007 01 27	I41	Spacewatch
(443059)	2013 FP_{13}	2007 01 27	G96	Mt. Lemmon Survey
(443060)	2013 FN_{15}	2005 10 01	G96	Mt. Lemmon Survey
(443061)	2013 FB_{16}	2005 11 01	G96	Mt. Lemmon Survey
(443062)	2013 FM_{16}	2004 10 04	G96	Spacewatch
(443063)	2013 FQ_{20}	2010 09 16	G96	Spacewatch
(443064)	2013 FJ_{25}	2004 02 29	G96	Spacewatch
(443065)	2013 FK_{25}	2013 02 14	I41	CSS
(443066)	2013 GV_{2}	2000 02 03	F51	Spacewatch
(443067)	2013 GD_{4}	2004 03 18	G96	LINEAR
(443068)	2013 GJ_{4}	2004 03 29	G96	Spacewatch
(443069)	2013 GC_{11}	2005 07 03	691	Mt. Lemmon Survey
(443070)	2013 GO_{11}	2000 09 07	G96	Spacewatch
(443071)	2013 GO_{13}	2008 03 30	I41	CSS
(443072)	2013 GX_{14}	2005 08 30	G96	Spacewatch
(443073)	2013 GC_{20}	2007 03 13	F51	Mt. Lemmon Survey
(443074)	2013 GQ_{25}	2005 11 06	G96	Spacewatch
(443075)	2013 GV_{25}	2000 12 18	I41	Spacewatch
(443076)	2013 GP_{27}	2008 04 07	F51	Spacewatch
(443077)	2013 GC_{28}	2007 01 10	F51	Spacewatch
(443078)	2013 GF_{36}	2009 09 16	G96	CSS
(443079)	2013 GH_{37}	1999 10 06	F51	Spacewatch
(443080)	2013 GD_{43}	2007 02 23	G96	Spacewatch
(443081)	2013 GM_{45}	2007 02 17	F51	Spacewatch
(443082)	2013 GO_{62}	2010 10 01	G96	Spacewatch
(443083)	2013 GG_{64}	2008 04 28	G96	CSS
(443084)	2013 GD_{68}	2007 01 28	G96	Mt. Lemmon Survey
(443085)	2013 GN_{68}	2007 02 21	G96	Mt. Lemmon Survey
(443086)	2013 GQ_{69}	2008 09 23	691	Spacewatch
(443087)	2013 GC_{117}	2004 09 10	F51	Spacewatch
(443088)	2013 GH_{117}	2005 08 30	G96	Spacewatch
(443089)	2013 GD_{128}	2008 12 29	I41	Mt. Lemmon Survey
(443090)	2013 GV_{128}	2007 01 17	I41	Spacewatch
(443091)	2013 HT_{1}	2001 11 21	926	Spacewatch
(443092)	2013 HV_{4}	2009 03 18	I41	CSS
(443093)	2013 HO_{9}	2007 01 25	I41	CSS
(443094)	2013 HN_{15}	1995 03 10	I41	Spacewatch
(443095)	2013 HB_{18}	2001 11 15	691	LINEAR
(443096)	2013 HE_{21}	2012 01 19	G96	Spacewatch
(443097)	2013 HY_{48}	2005 12 28	W84	Spacewatch
(443098)	2013 HX_{110}	2010 10 19	W84	Mt. Lemmon Survey
(443099)	2013 HR_{150}	2010 11 11	W84	Spacewatch
(443100)	2013 JB_{25}	2011 11 23	691	Spacewatch
(443101)	2013 JM_{31}	2005 11 01	I41	Mt. Lemmon Survey
(443102)	2013 WS	1999 12 07	G96	Spacewatch
(443103)	2013 WT_{67}	2013 11 29	691	Spacewatch
(443104)	2013 XK_{22}	2013 12 14	703	CSS
(443105)	2013 YK_{13}	2006 12 01	G96	Mt. Lemmon Survey
(443106)	2013 YA_{20}	2006 12 27	G96	Mt. Lemmon Survey
(443107)	2013 YQ_{44}	2009 11 25	G96	Spacewatch
(443108)	2013 YY_{54}	2004 04 21	G96	Spacewatch
(443109)	2013 YG_{69}	1999 01 13	G96	Spacewatch
(443110)	2013 YB_{73}	2009 12 17	G96	Mt. Lemmon Survey
(443111)	2013 YZ_{73}	2013 12 25	G96	Mt. Lemmon Survey
(443112)	2013 YV_{84}	2004 01 19	691	Spacewatch
(443113)	2013 YQ_{88}	2000 02 04	691	Spacewatch
(443114)	2013 YL_{96}	2004 03 27	691	LINEAR
(443115)	2014 AU_{6}	2006 05 31	F51	Spacewatch
(443116)	2014 AQ_{19}	2011 04 02	691	Mt. Lemmon Survey
(443117)	2014 AE_{24}	2014 01 03	691	Spacewatch
(443118)	2014 AA_{27}	2014 01 04	G96	Mt. Lemmon Survey
(443119)	2014 AN_{32}	2005 12 06	703	CSS
(443120)	2014 AU_{32}	2006 02 07	703	Mt. Lemmon Survey
(443121)	2014 AW_{43}	2000 02 02	703	LINEAR
(443122)	2014 AG_{45}	2009 09 29	G96	Mt. Lemmon Survey
(443123)	2014 AG_{46}	2006 01 31	H15	CSS
(443124)	2014 AH_{50}	2005 10 28	F51	Mt. Lemmon Survey
(443125)	2014 AS_{51}	2009 01 18	G96	Mt. Lemmon Survey
(443126)	2014 AN_{54}	2010 12 12	691	Mt. Lemmon Survey
(443127)	2014 BK_{8}	2000 11 21	F51	LINEAR
(443128)	2014 BN_{8}	2009 01 02	F51	Spacewatch
(443129)	2014 BS_{8}	2009 02 03	F51	Mt. Lemmon Survey
(443130)	2014 BA_{9}	2006 02 03	703	CSS
(443131)	2014 BL_{9}	2004 07 14	F51	Siding Spring Survey
(443132)	2014 BT_{12}	2010 02 15	G96	Mt. Lemmon Survey
(443133)	2014 BW_{16}	2003 02 23	G96	CINEOS
(443134)	2014 BL_{19}	2006 11 21	G96	Mt. Lemmon Survey
(443135)	2014 BJ_{21}	2013 12 25	G96	Mt. Lemmon Survey
(443136)	2014 BP_{21}	2014 01 09	G96	Mt. Lemmon Survey
(443137)	2014 BB_{22}	2007 02 07	G96	Mt. Lemmon Survey
(443138)	2014 BE_{25}	2006 02 01	F51	CSS
(443139)	2014 BV_{27}	2011 02 08	G96	Mt. Lemmon Survey
(443140)	2014 BG_{29}	2011 03 25	G96	Spacewatch
(443141)	2014 BN_{34}	2003 01 31	691	LINEAR
(443142)	2014 BA_{35}	2004 05 21	691	Spacewatch
(443143)	2014 BB_{37}	2003 04 24	691	CINEOS
(443144)	2014 BM_{38}	2003 11 18	G96	Spacewatch
(443145)	2014 BB_{40}	2005 10 28	F51	Mt. Lemmon Survey
(443146)	2014 BY_{44}	2010 01 06	691	Spacewatch
(443147)	2014 BG_{45}	2004 04 16	691	Spacewatch
(443148)	2014 BS_{47}	1994 03 16	G96	Spacewatch
(443149)	2014 BU_{57}	2009 02 19	703	Spacewatch
(443150)	2014 BC_{63}	2009 01 29	C51	CSS

(443151)	2014 CB	2008 12 02	G32	Spacewatch
(443152)	2014 CY_3	2007 03 11	J43	Spacewatch
(443153)	2014 CR_5	2006 05 01	691	CSS
(443154)	2014 CQ_6	2007 02 23	691	Spacewatch
(443155)	2014 CU_7	1998 08 22	691	Beijing Schmidt CCD Asteroid Program
(443156)	2014 CF_8	2005 09 01	691	Spacewatch
(443157)	2014 CF_9	2006 01 23	G96	Spacewatch
(443158)	2014 CX_9	2000 02 26	703	CSS
(443159)	2014 CV_{15}	2005 12 29	J43	Spacewatch
(443160)	2014 CA_{17}	2007 01 27	691	Spacewatch
(443161)	2014 CH_{17}	2007 03 14	G96	Spacewatch
(443162)	2014 CQ_{17}	2007 06 14	691	Spacewatch
(443163)	2014 CD_{19}	2012 11 04	F51	Mt. Lemmon Survey
(443164)	2014 CT_{19}	2005 12 21	J43	LINEAR
(443165)	2014 CY_{21}	2007 04 26	F51	Mt. Lemmon Survey
(443166)	2014 CA_{23}	2010 01 12	703	CSS
(443167)	2014 DY_5	2007 02 06	F51	Spacewatch
(443168)	2014 DA_7	2010 02 16	F51	Mt. Lemmon Survey
(443169)	2014 DE_7	2007 03 15	691	Mt. Lemmon Survey
(443170)	2014 DG_9	2005 11 29	G96	Spacewatch
(443171)	2014 DA_{15}	2010 02 16	118	Mt. Lemmon Survey
(443172)	2014 DN_{15}	2009 10 22	691	Mt. Lemmon Survey
(443173)	2014 DT_{15}	2006 01 28	691	Mt. Lemmon Survey
(443174)	2014 DJ_{16}	2008 10 06	691	Mt. Lemmon Survey
(443175)	2014 DT_{18}	2006 03 05	F51	Spacewatch
(443176)	2014 DU_{18}	2005 11 10	F51	Mt. Lemmon Survey
(443177)	2014 DF_{21}	2006 09 28	H21	Spacewatch
(443178)	2014 DG_{21}	2006 03 26	H21	Spacewatch
(443179)	2014 DX_{24}	2010 02 14	G96	Spacewatch
(443180)	2014 DC_{26}	2009 11 25	691	Spacewatch
(443181)	2014 DF_{27}	2005 12 06	691	Spacewatch
(443182)	2014 DX_{28}	2010 02 14	F51	Spacewatch
(443183)	2014 DH_{29}	2009 01 16	F51	Mt. Lemmon Survey
(443184)	2014 DR_{30}	2007 01 28	G96	Mt. Lemmon Survey
(443185)	2014 DB_{34}	2007 05 10	691	Mt. Lemmon Survey
(443186)	2014 DU_{37}	1995 04 02	G96	Spacewatch
(443187)	2014 DM_{38}	1997 03 04	F51	Spacewatch
(443188)	2014 DY_{38}	2011 03 11	F51	Mt. Lemmon Survey
(443189)	2014 DY_{39}	2011 06 25	F51	Spacewatch
(443190)	2014 DC_{43}	2011 04 06	J43	Mt. Lemmon Survey
(443191)	2014 DD_{46}	2008 10 07	G96	Mt. Lemmon Survey
(443192)	2014 DJ_{47}	2009 12 19	F51	Mt. Lemmon Survey
(443193)	2014 DA_{48}	1999 09 30	F51	Spacewatch
(443194)	2014 DJ_{49}	2003 04 29	F51	Spacewatch
(443195)	2014 DK_{50}	2005 11 01	F51	Spacewatch
(443196)	2014 DS_{52}	2005 11 05	F51	Spacewatch
(443197)	2014 DP_{53}	2008 10 27	F51	Mt. Lemmon Survey
(443198)	2014 DG_{56}	2008 01 18	F51	Spacewatch
(443199)	2014 DR_{58}	2007 03 19	F51	Mt. Lemmon Survey
(443200)	2014 DZ_{65}	2007 03 14	F51	Mt. Lemmon Survey
(443201)	2014 DF_{67}	2010 04 06	F51	Spacewatch
(443202)	2014 DH_{68}	2008 12 22	F51	Mt. Lemmon Survey
(443203)	2014 DT_{68}	2010 03 17	F51	Spacewatch
(443204)	2014 DE_{69}	2000 11 25	F51	Spacewatch
(443205)	2014 DP_{70}	2005 11 04	F51	Mt. Lemmon Survey
(443206)	2014 DQ_{72}	2008 11 03	F51	Mt. Lemmon Survey
(443207)	2014 DB_{73}	2006 12 27	F51	Mt. Lemmon Survey
(443208)	2014 DW_{73}	2011 05 22	F51	Mt. Lemmon Survey
(443209)	2014 DH_{81}	2000 02 04	691	Spacewatch
(443210)	2014 DC_{83}	2008 11 20	F51	Spacewatch
(443211)	2014 DD_{85}	2007 11 08	691	Spacewatch
(443212)	2014 DX_{85}	2007 03 14	G96	Spacewatch
(443213)	2014 DB_{88}	1995 03 02	F51	Spacewatch
(443214)	2014 DN_{88}	1999 10 09	F51	Spacewatch
(443215)	2014 DQ_{90}	2009 01 08	G96	Spacewatch
(443216)	2014 DL_{93}	1999 09 18	F51	Spacewatch
(443217)	2014 DF_{95}	2009 11 20	F51	Mt. Lemmon Survey
(443218)	2014 DT_{96}	2007 02 26	F51	Mt. Lemmon Survey
(443219)	2014 DQ_{97}	2005 08 31	G32	Spacewatch
(443220)	2014 DZ_{97}	2003 10 24	691	LINEAR
(443221)	2014 DA_{101}	2014 01 28	G96	Spacewatch
(443222)	2014 DG_{103}	2006 10 28	G96	Spacewatch
(443223)	2014 DX_{103}	2007 10 08	G96	Mt. Lemmon Survey
(443224)	2014 DF_{104}	2006 05 01	G96	Spacewatch
(443225)	2014 DD_{105}	2007 01 28	G96	Mt. Lemmon Survey
(443226)	2014 DY_{105}	2010 01 10	G96	Spacewatch
(443227)	2014 DW_{106}	2003 04 26	G96	Spacewatch
(443228)	2014 DZ_{108}	2010 05 07	G96	Spacewatch
(443229)	2014 DV_{111}	2011 03 27	C95	Spacewatch
(443230)	2014 DN_{113}	2005 10 31	G96	Spacewatch
(443231)	2014 DO_{115}	2010 03 13	F51	Spacewatch
(443232)	2014 DZ_{116}	2010 04 06	703	CSS
(443233)	2014 DR_{117}	2014 01 23	703	Mt. Lemmon Survey
(443234)	2014 DM_{119}	2010 03 25	G96	Spacewatch
(443235)	2014 DP_{119}	2006 04 21	F51	Spacewatch
(443236)	2014 DJ_{120}	2009 11 26	F51	Spacewatch
(443237)	2014 DR_{121}	2010 03 19	F51	Spacewatch
(443238)	2014 DR_{122}	2012 09 23	F51	Mt. Lemmon Survey
(443239)	2014 DX_{122}	2007 04 11	F51	Mt. Lemmon Survey
(443240)	2014 DE_{124}	2005 11 30	F51	Spacewatch
(443241)	2014 DO_{124}	2007 04 19	F51	Mt. Lemmon Survey
(443242)	2014 DZ_{127}	2005 02 09	F51	Mt. Lemmon Survey
(443243)	2014 DE_{132}	2011 09 24	F51	Mt. Lemmon Survey
(443244)	2014 DE_{133}	2010 02 18	F51	Mt. Lemmon Survey
(443245)	2014 DG_{135}	2009 01 02	F51	Mt. Lemmon Survey
(443246)	2014 DL_{137}	2006 01 23	F51	Spacewatch
(443247)	2014 DH_{141}	2009 12 25	I41	Spacewatch
(443248)	2014 DW_{141}	2007 02 23	F51	CSS
(443249)	2014 DC_{142}	2009 11 27	H15	Spacewatch
(443250)	2014 DG_{142}	2008 12 21	703	Mt. Lemmon Survey
(443251)	2014 EU_1	2003 03 12	691	Spacewatch
(443252)	2014 EJ_3	2008 08 21	F51	Spacewatch
(443253)	2014 ES_4	2007 04 14	691	Spacewatch
(443254)	2014 ET_5	2001 01 04	F51	Spacewatch

(443255)	2014 EY_{6}	2010 03 13	F51	Spacewatch
(443256)	2014 EA_{7}	2010 03 20	F51	Spacewatch
(443257)	2014 EB_{7}	2003 04 08	F51	Spacewatch
(443258)	2014 ER_{9}	2009 10 01	G96	Mt. Lemmon Survey
(443259)	2014 EB_{11}	2004 12 10	691	CINEOS
(443260)	2014 EW_{11}	2009 12 16	703	Spacewatch
(443261)	2014 EG_{13}	2006 01 30	691	Spacewatch
(443262)	2014 EF_{14}	1998 09 12	F51	Spacewatch
(443263)	2014 EE_{15}	2010 02 13	F51	Mt. Lemmon Survey
(443264)	2014 EF_{16}	2007 11 05	F51	Spacewatch
(443265)	2014 EW_{17}	2007 04 14	691	Spacewatch
(443266)	2014 EJ_{18}	2010 02 08	691	WISE
(443267)	2014 EL_{18}	2004 01 19	691	Spacewatch
(443268)	2014 ES_{18}	2007 03 26	691	Spacewatch
(443269)	2014 ET_{18}	2007 06 22	691	Spacewatch
(443270)	2014 ET_{21}	2005 03 09	G32	Spacewatch
(443271)	2014 ED_{26}	1995 10 20	F51	Spacewatch
(443272)	2014 EE_{27}	2006 02 27	F51	Spacewatch
(443273)	2014 EL_{27}	2008 01 10	F51	Mt. Lemmon Survey
(443274)	2014 ES_{28}	2010 02 14	G96	Mt. Lemmon Survey
(443275)	2014 EQ_{30}	2008 03 07	691	Mt. Lemmon Survey
(443276)	2014 EF_{32}	2013 12 31	703	Mt. Lemmon Survey
(443277)	2014 EY_{33}	2008 12 05	G96	Spacewatch
(443278)	2014 EQ_{36}	2006 03 24	G96	Spacewatch
(443279)	2014 ET_{36}	2009 11 17	G96	Mt. Lemmon Survey
(443280)	2014 EA_{46}	2005 12 05	G96	Spacewatch
(443281)	2014 EB_{46}	2006 01 21	G96	Mt. Lemmon Survey
(443282)	2014 ER_{46}	2012 10 17	G96	Mt. Lemmon Survey
(443283)	2014 EZ_{47}	2011 09 21	G96	Spacewatch
(443284)	2014 EH_{48}	2010 03 20	G96	Mt. Lemmon Survey
(443285)	2014 EM_{48}	2011 05 24	G96	Mt. Lemmon Survey
(443286)	2014 EO_{49}	2006 03 25	F51	Spacewatch
(443287)	2014 ES_{51}	2006 02 27	F51	Spacewatch
(443288)	2014 FB_{1}	2008 12 30	G96	Mt. Lemmon Survey
(443289)	2014 FD_{2}	2007 09 14	G96	CSS
(443290)	2014 FH_{3}	2001 12 11	G96	LINEAR
(443291)	2014 FP_{5}	2007 10 09	F51	Mt. Lemmon Survey
(443292)	2014 FT_{5}	2005 03 09	F51	Mt. Lemmon Survey
(443293)	2014 FS_{6}	2006 11 22	G96	Mt. Lemmon Survey
(443294)	2014 FV_{14}	2012 11 13	F51	Mt. Lemmon Survey
(443295)	2014 FY_{14}	2005 05 09	F51	Spacewatch
(443296)	2014 FB_{15}	2002 05 18	F51	Spacewatch
(443297)	2014 FD_{15}	2006 05 23	D29	Mt. Lemmon Survey
(443298)	2014 FF_{20}	2008 09 05	G96	Spacewatch
(443299)	2014 FK_{20}	2003 09 20	G96	Spacewatch
(443300)	2014 FN_{20}	2010 04 08	G96	CSS
(443301)	2014 FX_{20}	2005 04 02	691	Spacewatch
(443302)	2014 FC_{21}	2006 03 24	G96	Mt. Lemmon Survey
(443303)	2014 FJ_{23}	2010 04 20	703	Siding Spring Survey
(443304)	2014 FD_{24}	2009 01 26	G96	Mt. Lemmon Survey
(443305)	2014 FZ_{26}	1995 09 26	G96	Spacewatch
(443306)	2014 FX_{27}	2009 01 18	G96	Spacewatch
(443307)	2014 FQ_{34}	2006 09 26	691	Mt. Lemmon Survey
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(443309)	2014 FZ_{35}	2000 02 28	691	Spacewatch
(443310)	2014 FY_{36}	2003 03 23	691	Spacewatch
(443311)	2014 FB_{37}	1997 04 29	F51	Spacewatch
(443312)	2014 FO_{41}	2000 05 01	G96	Spacewatch
(443313)	2014 FT_{44}	2009 03 02	F51	Mt. Lemmon Survey
(443314)	2014 FG_{48}	2006 01 07	G96	Mt. Lemmon Survey
(443315)	2014 FX_{48}	2010 02 16	G96	Mt. Lemmon Survey
(443316)	2014 FC_{51}	2010 03 15	F51	Spacewatch
(443317)	2014 FD_{52}	2003 04 08	G96	Spacewatch
(443318)	2014 FG_{52}	2007 10 09	H15	Spacewatch
(443319)	2014 FV_{52}	2006 05 23	691	Mt. Lemmon Survey
(443320)	2014 FT_{57}	2008 10 23	703	Mt. Lemmon Survey
(443321)	2014 FK_{63}	2008 09 04	G45	Spacewatch
(443322)	2014 FT_{63}	2005 11 30	G45	Mt. Lemmon Survey
(443323)	2014 FB_{64}	2003 07 03	G45	Spacewatch
(443324)	2014 FO_{64}	1998 11 14	G45	Spacewatch
(443325)	2014 FB_{65}	2009 01 01	G45	Spacewatch
(443326)	2014 FM_{65}	2007 10 12	G45	Mt. Lemmon Survey
(443327)	2014 FV_{65}	2008 12 03	G45	Mt. Lemmon Survey
(443328)	2014 FH_{66}	2005 12 07	G45	Spacewatch
(443329)	2014 FQ_{66}	2007 01 28	G45	Mt. Lemmon Survey
(443330)	2014 FD_{67}	2010 07 07	G45	WISE
(443331)	2014 FO_{68}	2010 04 18	G45	Spacewatch
(443332)	2014 GB	2008 01 13	G32	Spacewatch
(443333)	2014 GE_{1}	2007 09 09	G96	Mt. Lemmon Survey
(443334)	2014 GY_{3}	2007 09 14	G96	Mt. Lemmon Survey
(443335)	2014 GV_{4}	2008 11 19	G96	Spacewatch
(443336)	2014 GB_{6}	2003 03 23	G96	Spacewatch
(443337)	2014 GV_{7}	2011 11 24	G96	Mt. Lemmon Survey
(443338)	2014 GZ_{7}	2003 04 25	G96	Spacewatch
(443339)	2014 GN_{8}	2007 03 14	691	Mt. Lemmon Survey
(443340)	2014 GA_{9}	2010 04 10	691	Mt. Lemmon Survey
(443341)	2014 GD_{10}	2009 03 02	691	Mt. Lemmon Survey
(443342)	2014 GM_{13}	2007 10 18	G96	Mt. Lemmon Survey
(443343)	2014 GA_{14}	2008 02 08	691	Spacewatch
(443344)	2014 GB_{14}	2010 09 01	691	Mt. Lemmon Survey
(443345)	2014 GZ_{17}	2007 12 30	G96	Spacewatch
(443346)	2014 GR_{20}	2003 12 22	G96	Spacewatch
(443347)	2014 GB_{22}	2008 02 13	G96	Spacewatch
(443348)	2014 GM_{28}	2006 04 02	G96	Spacewatch
(443349)	2014 GA_{31}	2008 02 28	F51	Mt. Lemmon Survey
(443350)	2014 GJ_{31}	2007 10 30	F51	Mt. Lemmon Survey
(443351)	2014 GW_{32}	2008 02 11	F51	Mt. Lemmon Survey
(443352)	2014 GY_{33}	2007 10 16	F51	Spacewatch
(443353)	2014 GN_{35}	2008 02 29	703	CSS
(443354)	2014 GO_{35}	2004 07 27	G96	Siding Spring Survey
(443355)	2014 GP_{35}	2009 05 15	691	Spacewatch
(443356)	2014 GF_{36}	2007 11 13	G96	Spacewatch
(443357)	2014 GO_{36}	2008 11 18	G96	Spacewatch
(443358)	2014 GX_{36}	2008 02 27	691	Mt. Lemmon Survey

(443359)	2014 GY_{37}	2010 03 18	691	Spacewatch
(443360)	2014 GO_{38}	2008 03 13	691	Spacewatch
(443361)	2014 GL_{40}	2007 10 08	703	Mt. Lemmon Survey
(443362)	2014 GM_{40}	2005 03 10	703	LONEOS
(443363)	2014 GN_{40}	2004 12 15	G96	Spacewatch
(443364)	2014 GZ_{42}	1998 04 24	F51	Spacewatch
(443365)	2014 GC_{44}	2011 09 27	G32	Mt. Lemmon Survey
(443366)	2014 GK_{46}	1994 05 18	703	Spacewatch
(443367)	2014 GO_{50}	2009 03 16	691	Spacewatch
(443368)	2014 GK_{53}	2006 05 19	G96	Mt. Lemmon Survey
(443369)	2014 HG	2010 07 09	691	WISE
(443370)	2014 HO	2009 01 01	G96	Mt. Lemmon Survey
(443371)	2014 HM_{1}	2010 04 20	691	Mt. Lemmon Survey
(443372)	2014 HV_{1}	2006 10 21	G96	Mt. Lemmon Survey
(443373)	2014 HD_{2}	2009 03 01	691	Spacewatch
(443374)	2014 HG_{2}	2005 10 24	691	Spacewatch
(443375)	2014 HN_{3}	2009 05 17	G96	Mt. Lemmon Survey
(443376)	2014 HK_{5}	2012 12 08	691	Mt. Lemmon Survey
(443377)	2014 HW_{5}	2004 04 13	G96	Spacewatch
(443378)	2014 HQ_{6}	2010 06 24	G96	WISE
(443379)	2014 HP_{7}	2006 01 31	G96	Spacewatch
(443380)	2014 HU_{7}	2011 10 20	G96	Mt. Lemmon Survey
(443381)	2014 HC_{8}	2007 11 03	G96	Spacewatch
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(443383)	2014 HP_{9}	2007 12 19	G96	Spacewatch
(443384)	2014 HZ_{11}	2011 10 18	691	Spacewatch
(443385)	2014 HD_{12}	2005 10 30	691	Spacewatch
(443386)	2014 HO_{12}	2007 11 11	691	Mt. Lemmon Survey
(443387)	2014 HD_{15}	2005 04 11	G96	Mt. Lemmon Survey
(443388)	2014 HS_{16}	1994 04 06	G96	Spacewatch
(443389)	2014 HU_{17}	2005 05 14	G96	Mt. Lemmon Survey
(443390)	2014 HD_{20}	2010 05 05	G96	WISE
(443391)	2014 HW_{21}	2005 10 07	G96	Spacewatch
(443392)	2014 HD_{22}	2005 10 10	G96	Spacewatch
(443393)	2014 HN_{22}	2008 04 11	G96	Mt. Lemmon Survey
(443394)	2014 HU_{24}	2006 05 05	G96	Spacewatch
(443395)	2014 HC_{29}	2005 10 01	W84	Spacewatch
(443396)	2014 HZ_{29}	2008 02 09	W84	Spacewatch
(443397)	2014 HW_{30}	2009 01 20	W84	Spacewatch
(443398)	2014 HJ_{31}	2014 03 25	W84	Spacewatch
(443399)	2014 HS_{32}	2003 05 22	W84	Spacewatch
(443400)	2014 HV_{34}	2000 02 05	W84	Spacewatch
(443401)	2014 HY_{36}	2008 01 18	W84	Mt. Lemmon Survey
(443402)	2014 HU_{37}	2004 07 22	W84	Siding Spring Survey
(443403)	2014 HC_{38}	2011 10 21	W84	Mt. Lemmon Survey
(443404)	2014 HU_{38}	2013 01 06	W84	Spacewatch
(443405)	2014 HA_{45}	2005 08 28	F51	Spacewatch
(443406)	2014 HK_{45}	2013 01 05	G96	Spacewatch
(443407)	2014 HP_{45}	2014 04 24	G96	Mt. Lemmon Survey
(443408)	2014 HU_{47}	2009 12 18	G96	Mt. Lemmon Survey
(443409)	2014 HW_{47}	2007 11 08	G96	Spacewatch
(443410)	2014 HC_{48}	2010 05 12	703	Spacewatch
(443411)	2014 HK_{49}	2005 04 06	W84	Mt. Lemmon Survey
(443412)	2014 HE_{50}	2001 11 11	W84	Spacewatch
(443413)	2014 HA_{52}	2006 06 22	W84	Spacewatch
(443414)	2014 HD_{62}	2006 01 28	W84	Spacewatch
(443415)	2014 HY_{64}	2005 10 30	W84	Spacewatch
(443416)	2014 HJ_{70}	2008 02 28	W84	Mt. Lemmon Survey
(443417)	2014 HL_{73}	2007 10 10	W84	Spacewatch
(443418)	2014 HM_{73}	2006 05 21	W84	Mt. Lemmon Survey
(443419)	2014 HY_{73}	2005 06 30	W84	Spacewatch
(443420)	2014 HC_{78}	2010 05 29	W84	WISE
(443421)	2014 HJ_{81}	2009 02 28	W84	Spacewatch
(443422)	2014 HV_{83}	2006 08 18	W84	Spacewatch
(443423)	2014 HJ_{93}	2006 04 24	W84	Spacewatch
(443424)	2014 HP_{95}	2005 12 25	W84	Spacewatch
(443425)	2014 HT_{107}	2009 03 19	W84	Spacewatch
(443426)	2014 HJ_{111}	2009 01 16	W84	Mt. Lemmon Survey
(443427)	2014 HH_{118}	2006 01 25	W84	Spacewatch
(443428)	2014 HW_{118}	2011 11 18	W84	Mt. Lemmon Survey
(443429)	2014 HJ_{123}	2007 09 25	G32	Mt. Lemmon Survey
(443430)	2014 HH_{125}	2007 11 20	W84	Mt. Lemmon Survey
(443431)	2014 HS_{130}	2011 08 29	F51	Siding Spring Survey
(443432)	2014 HZ_{130}	2006 09 28	W84	Spacewatch
(443433)	2014 HQ_{133}	1998 02 23	W84	Spacewatch
(443434)	2014 HO_{136}	2013 01 19	W84	Mt. Lemmon Survey
(443435)	2014 HG_{138}	1996 09 21	W84	Beijing Schmidt CCD Asteroid Program
(443436)	2014 HH_{140}	2013 01 19	W84	Mt. Lemmon Survey
(443437)	2014 HX_{140}	2008 09 06	W84	Mt. Lemmon Survey
(443438)	2014 HF_{141}	2007 11 18	W84	Mt. Lemmon Survey
(443439)	2014 HY_{146}	2009 03 19	W84	Mt. Lemmon Survey
(443440)	2014 HG_{149}	1993 10 08	W84	Spacewatch
(443441)	2014 HP_{151}	2011 09 07	W84	Spacewatch
(443442)	2014 HT_{152}	2005 10 01	W84	Mt. Lemmon Survey
(443443)	2014 HX_{156}	2007 10 20	W84	Mt. Lemmon Survey
(443444)	2014 HA_{160}	2010 06 29	G96	WISE
(443445)	2014 HF_{160}	2008 02 28	G96	Mt. Lemmon Survey
(443446)	2014 HG_{160}	2000 02 05	G96	Spacewatch
(443447)	2014 HA_{161}	2009 03 26	G96	Mt. Lemmon Survey
(443448)	2014 HJ_{161}	2013 01 19	F51	Spacewatch
(443449)	2014 HG_{162}	2010 07 12	G96	WISE
(443450)	2014 HT_{163}	2004 09 13	H15	Spacewatch
(443451)	2014 HU_{163}	2011 09 22	F51	Spacewatch
(443452)	2014 HJ_{167}	2006 12 13	F51	Spacewatch
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(443454)	2014 HS_{171}	2007 10 15	G96	CSS
(443455)	2014 HH_{176}	2006 09 17	F51	CSS
(443456)	2014 HK_{179}	2007 01 09	F51	Spacewatch
(443457)	2014 HW_{183}	2008 11 21	F51	Mt. Lemmon Survey
(443458)	2014 HY_{184}	2007 12 04	J04	Spacewatch
(443459)	2014 HZ_{184}	2007 10 16	J04	Spacewatch
(443460)	2014 HE_{188}	2004 06 12	F51	LINEAR
(443461)	2014 HV_{188}	2009 03 02	F51	Spacewatch
(443462)	2014 HH_{189}	2003 05 26	F51	Spacewatch

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(443464) 2014 HL_{190} 2011 07 28 F51 Siding Spring Survey
(443465) 2014 HA_{191} 2006 08 19 F51 Spacewatch
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(443467) 2014 JM_{1} 2006 10 02 G96 Mt. Lemmon Survey
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(443471) 2014 JE_{3} 2011 10 28 G96 Mt. Lemmon Survey
(443472) 2014 JM_{3} 2009 05 01 G96 Mt. Lemmon Survey
(443473) 2014 JR_{4} 2008 11 24 I41 Mt. Lemmon Survey
(443474) 2014 JZ_{6} 2010 06 07 G96 WISE
(443475) 2014 JB_{7} 2005 08 30 G96 Spacewatch
(443476) 2014 JK_{7} 2011 10 23 G96 Mt. Lemmon Survey
(443477) 2014 JK_{8} 2007 10 10 G96 Mt. Lemmon Survey
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(443489) 2014 JC_{22} 2003 05 26 F51 Spacewatch
(443490) 2014 JW_{22} 2005 06 10 G96 Spacewatch
(443491) 2014 JW_{23} 2006 12 25 F51 Spacewatch
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(443495) 2014 JS_{26} 2013 01 17 F51 Spacewatch
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(443500) 2014 JS_{35} 2006 09 30 F51 Mt. Lemmon Survey
(443501) 2014 JU_{35} 2006 09 17 F51 Spacewatch
(443502) 2014 JV_{37} 2006 10 21 F51 Mt. Lemmon Survey
(443503) 2014 JF_{39} 2004 09 10 F51 Spacewatch
(443504) 2014 JM_{39} 2006 04 19 F51 Mt. Lemmon Survey
(443505) 2014 JU_{39} 2005 10 27 F51 CSS
(443506) 2014 JD_{41} 2011 09 21 691 Mt. Lemmon Survey
(443507) 2014 JE_{41} 2006 11 16 691 Spacewatch
(443508) 2014 JN_{43} 2006 11 15 F51 Mt. Lemmon Survey
(443509) 2014 JJ_{44} 2011 11 24 G96 Mt. Lemmon Survey
(443510) 2014 JS_{44} 2012 12 12 G96 Spacewatch
(443511) 2014 JR_{45} 2004 01 16 G96 Spacewatch
(443512) 2014 JB_{46} 2005 04 05 G96 Mt. Lemmon Survey
(443513) 2014 JD_{52} 2005 10 30 F51 Spacewatch
(443514) 2014 JR_{52} 2008 04 03 F51 Spacewatch
(443515) 2014 JS_{52} 2005 10 06 F51 Spacewatch
(443516) 2014 JQ_{53} 2008 03 04 F51 Mt. Lemmon Survey
(443517) 2014 JY_{57} 2008 01 10 F51 Mt. Lemmon Survey
(443518) 2014 JY_{58} 2006 12 13 F51 Spacewatch
(443519) 2014 JV_{59} 2009 03 01 F51 Spacewatch
(443520) 2014 JW_{59} 2010 04 14 F51 Spacewatch
(443521) 2014 JB_{60} 2004 08 22 F51 Spacewatch
(443522) 2014 JX_{60} 2007 11 02 691 Mt. Lemmon Survey
(443523) 2014 JE_{61} 2006 09 24 F51 Spacewatch
(443524) 2014 JL_{62} 2008 01 11 F51 Spacewatch
(443525) 2014 JP_{65} 2008 03 06 F51 Spacewatch
(443526) 2014 JE_{67} 2008 01 10 F51 Mt. Lemmon Survey
(443527) 2014 JK_{67} 2008 03 30 F51 Spacewatch
(443528) 2014 JZ_{67} 2005 12 31 F51 Spacewatch
(443529) 2014 JS_{70} 2007 10 30 F51 Mt. Lemmon Survey
(443530) 2014 JP_{71} 1995 11 27 F51 Spacewatch
(443531) 2014 JU_{72} 2009 01 02 F51 Spacewatch
(443532) 2014 JW_{73} 2005 10 01 F51 Mt. Lemmon Survey
(443533) 2014 JX_{75} 2006 10 02 F51 Mt. Lemmon Survey
(443534) 2014 KY 2008 02 29 F51 Mt. Lemmon Survey
(443535) 2014 KJ_{1} 2008 04 04 F51 Mt. Lemmon Survey
(443536) 2014 KY_{1} 2013 01 06 621 Spacewatch
(443537) 2014 KR_{2} 2010 09 04 F51 Spacewatch
(443538) 2014 KG_{3} 2008 02 28 F51 Spacewatch
(443539) 2014 KQ_{3} 2006 04 25 F51 Mt. Lemmon Survey
(443540) 2014 KT_{3} 2010 03 12 G96 WISE
(443541) 2014 KT_{4} 2013 01 16 F51 Mt. Lemmon Survey
(443542) 2014 KU_{7} 2009 03 01 F51 Spacewatch
(443543) 2014 KM_{9} 2005 04 17 F51 Spacewatch
(443544) 2014 KO_{9} 2008 02 09 F51 Spacewatch
(443545) 2014 KK_{10} 2008 03 05 F51 Spacewatch
(443546) 2014 KX_{11} 2009 04 26 F51 Spacewatch
(443547) 2014 KE_{13} 2008 03 31 F51 Mt. Lemmon Survey
(443548) 2014 KO_{13} 2008 03 11 F51 Mt. Lemmon Survey
(443549) 2014 KM_{14} 2004 09 08 F51 LINEAR
(443550) 2014 KX_{14} 2009 02 24 F51 Mt. Lemmon Survey
(443551) 2014 KZ_{14} 2013 02 07 F51 Spacewatch
(443552) 2014 KQ_{16} 2009 04 22 G96 Mt. Lemmon Survey
(443553) 2014 KO_{17} 2000 09 07 G96 Spacewatch
(443554) 2014 KD_{18} 2006 10 17 G96 Mt. Lemmon Survey
(443555) 2014 KJ_{18} 2007 11 05 G96 Spacewatch
(443556) 2014 KU_{23} 2005 11 01 F51 Spacewatch
(443557) 2014 KA_{24} 2003 04 08 691 Spacewatch
(443558) 2014 KQ_{25} 2006 08 21 G96 Spacewatch
(443559) 2014 KU_{25} 1995 12 26 G96 Spacewatch
(443560) 2014 KY_{26} 2005 11 25 F51 CSS
(443561) 2014 KC_{28} 2006 04 29 G96 Spacewatch
(443562) 2014 KJ_{28} 2007 01 17 G96 Spacewatch
(443563) 2014 KG_{30} 2014 05 03 F51 Mt. Lemmon Survey
(443564) 2014 KM_{31} 2004 10 08 F51 Spacewatch
(443565) 2014 KX_{31} 2005 11 01 F51 Mt. Lemmon Survey
(443566) 2014 KL_{33} 2003 11 26 F51 Spacewatch

(443567)	2014 KY_{34}	2003 11 26	G96	Spacewatch
(443568)	2014 KP_{35}	2011 09 21	G96	Mt. Lemmon Survey
(443569)	2014 KU_{40}	2005 04 10	F51	Mt. Lemmon Survey
(443570)	2014 KU_{42}	2013 02 17	F51	Spacewatch
(443571)	2014 KZ_{42}	2009 04 20	G96	Spacewatch
(443572)	2014 KL_{51}	2010 10 13	F51	Mt. Lemmon Survey
(443573)	2014 KW_{53}	2008 04 03	G96	Mt. Lemmon Survey
(443574)	2014 KQ_{55}	2003 04 08	F51	Spacewatch
(443575)	2014 KC_{57}	2008 04 11	F51	Spacewatch
(443576)	2014 KL_{58}	2008 05 05	F51	Mt. Lemmon Survey
(443577)	2014 KV_{59}	2012 11 13	F51	Mt. Lemmon Survey
(443578)	2014 KA_{65}	2012 12 13	F51	Mt. Lemmon Survey
(443579)	2014 KC_{66}	1995 10 24	F51	Spacewatch
(443580)	2014 KE_{67}	2003 12 29	G96	Spacewatch
(443581)	2014 KZ_{67}	2008 03 08	G96	Spacewatch
(443582)	2014 KR_{70}	2007 01 17	F51	Spacewatch
(443583)	2014 KE_{71}	2005 10 27	F51	CSS
(443584)	2014 KC_{73}	2004 09 11	F51	Spacewatch
(443585)	2014 KL_{73}	2010 06 30	F51	WISE
(443586)	2014 KP_{75}	2003 09 18	G32	Spacewatch
(443587)	2014 KM_{78}	2010 10 29	G96	Spacewatch
(443588)	2014 KL_{82}	2008 03 31	G96	Mt. Lemmon Survey
(443589)	2014 KZ_{85}	2003 04 11	G96	Spacewatch
(443590)	2014 KG_{87}	2002 01 14	F51	Spacewatch
(443591)	2014 KK_{88}	2007 11 11	F51	CSS
(443592)	2014 KU_{89}	2006 07 22	F51	Mt. Lemmon Survey
(443593)	2014 KJ_{91}	2010 07 09	F51	WISE
(443594)	2014 KL_{91}	2006 12 13	J04	Mt. Lemmon Survey
(443595)	2014 KQ_{92}	2005 11 01	G96	Mt. Lemmon Survey
(443596)	2014 KM_{93}	2000 09 25	F51	Spacewatch
(443597)	2014 KU_{93}	2008 05 02	F51	Spacewatch
(443598)	2014 KY_{94}	2007 12 31	G96	Mt. Lemmon Survey
(443599)	2014 KJ_{96}	2005 11 26	F51	CSS
(443600)	2014 KC_{97}	2010 10 11	F51	Mt. Lemmon Survey
(443601)	2014 KA_{98}	2008 04 04	F51	Mt. Lemmon Survey
(443602)	2014 KE_{98}	2005 11 29	F51	Spacewatch
(443603)	2014 KM_{100}	2008 04 13	F51	Spacewatch
(443604)	2014 KP_{101}	2001 12 10	F51	LINEAR
(443605)	2014 LZ_{2}	1995 11 16	G96	Spacewatch
(443606)	2014 LG_{8}	2006 12 26	G96	Spacewatch
(443607)	2014 LT_{8}	2007 11 15	G96	Mt. Lemmon Survey
(443608)	2014 LA_{10}	2008 04 15	J04	Mt. Lemmon Survey
(443609)	2014 LX_{10}	2002 02 13	F51	Spacewatch
(443610)	2014 LZ_{10}	2005 10 30	G96	Spacewatch
(443611)	2014 LZ_{14}	2009 06 15	691	Mt. Lemmon Survey
(443612)	2014 LA_{22}	2005 12 27	J04	Spacewatch
(443613)	2014 LC_{22}	2002 01 13	J04	LINEAR
(443614)	2014 LT_{22}	2010 09 03	F51	Mt. Lemmon Survey
(443615)	2014 LA_{25}	2001 12 19	G96	Spacewatch
(443616)	2014 LG_{25}	2005 10 28	J04	Mt. Lemmon Survey
(443617)	2014 LJ_{25}	2005 11 29	J04	Spacewatch
(443618)	2014 MO_{1}	2005 10 08	691	Spacewatch
(443619)	2014 MM_{2}	2010 02 21	F51	WISE
(443620)	2014 MJ_{3}	2004 10 04	G96	Spacewatch
(443621)	2014 MK_{11}	2005 11 30	G96	Mt. Lemmon Survey
(443622)	2014 MA_{21}	2009 05 02	G32	Mt. Lemmon Survey
(443623)	2014 MM_{23}	2013 03 05	G96	CSS
(443624)	2014 ML_{34}	2010 07 22	G96	WISE
(443625)	2014 MM_{34}	2007 01 10	G96	Spacewatch
(443626)	2014 MM_{36}	2006 05 30	F51	Mt. Lemmon Survey
(443627)	2014 MX_{40}	2012 01 20	F51	Mt. Lemmon Survey
(443628)	2014 MS_{46}	2008 04 14	691	Spacewatch
(443629)	2014 MQ_{47}	2008 04 11	G96	Spacewatch
(443630)	2014 MM_{54}	2010 10 31	F51	Mt. Lemmon Survey
(443631)	2014 MD_{58}	2000 01 27	F51	Spacewatch
(443632)	2014 NA_{1}	2010 03 14	G96	Spacewatch
(443633)	2014 NH_{17}	2005 09 25	F51	Spacewatch
(443634)	2014 NR_{55}	2008 04 29	F51	Mt. Lemmon Survey
(443635)	2014 NW_{61}	2008 01 18	F51	Mt. Lemmon Survey
(443636)	2014 OE	2011 12 26	G32	Spacewatch
(443637)	2014 OB_{6}	2001 06 26	F51	Spacewatch
(443638)	2014 OY_{14}	2009 02 28	F51	Mt. Lemmon Survey
(443639)	2014 OB_{131}	2008 03 01	F51	Spacewatch
(443640)	2014 OR_{131}	2007 01 27	F51	Spacewatch
(443641)	2014 OH_{202}	2005 12 27	F51	Mt. Lemmon Survey
(443642)	2014 OH_{207}	2004 11 10	G32	Spacewatch
(443643)	2014 OQ_{211}	2010 09 11	F51	Spacewatch
(443644)	2014 ON_{212}	2009 08 18	F51	Spacewatch
(443645)	2014 OO_{212}	2007 02 23	F51	Spacewatch
(443646)	2014 OB_{240}	1998 06 27	F51	Spacewatch
(443647)	2014 OX_{281}	2009 09 15	F51	Spacewatch
(443648)	2014 OO_{316}	2007 03 25	F51	Mt. Lemmon Survey
(443649)	2014 ON_{343}	2010 09 16	F51	Spacewatch
(443650)	2014 QU_{189}	2003 09 18	F51	Spacewatch
(443651)	2015 DS_{211}	2009 10 26	F51	Mt. Lemmon Survey
(443652)	2015 EU_{64}	2008 05 05	G45	Mt. Lemmon Survey
(443653)	2015 FO_{32}	2007 03 13	691	Mt. Lemmon Survey
(443654)	2015 FT_{43}	2002 03 13	F51	LINEAR
(443655)	2015 FP_{76}	2006 05 06	F51	Mt. Lemmon Survey
(443656)	2015 FB_{77}	1998 11 21	F51	Spacewatch
(443657)	2015 FK_{77}	2006 09 25	F51	LONEOS
(443658)	2015 FY_{115}	2005 04 14	703	CSS
(443659)	2015 FM_{213}	2010 04 10	F51	Spacewatch
(443660)	2015 FH_{294}	2009 03 03	F51	CSS
(443661)	2015 FF_{301}	2006 01 28	F51	Spacewatch
(443662)	2015 FC_{302}	2003 09 28	F51	LONEOS
(443663)	2015 FY_{314}	2004 04 23	F51	LINEAR
(443664)	2015 FX_{315}	2005 01 13	F51	Spacewatch
(443665)	2015 FO_{335}	1996 04 12	F51	Spacewatch
(443666)	2015 FV_{337}	2008 01 10	F51	Mt. Lemmon Survey
(443667)	2015 FE_{338}	1996 12 12	F51	Spacewatch
(443668)	2015 HX	2005 06 03	F51	Spacewatch
(443669)	2015 HA_{43}	1993 04 19	691	Spacewatch
(443670)	2015 HX_{60}	2006 02 27	F51	Spacewatch

(443671)	2015 HL_{94}	2007 10 10	F51	Mt. Lemmon Survey
(443672)	2015 HR_{148}	2005 09 09	F51	LINEAR
(443673)	2015 HD_{155}	2003 10 20	F52	Spacewatch
(443674)	2015 HN_{170}	2009 10 24	703	Spacewatch
(443675)	2015 HF_{171}	2008 05 07	D29	Mt. Lemmon Survey
(443676)	2015 KO_{4}	2007 10 14	F51	Mt. Lemmon Survey
(443677)	2015 KP_{8}	2003 09 22	F52	Spacewatch
(443678)	2015 KJ_{13}	2010 05 17	F51	Mt. Lemmon Survey
(443679)	2015 KP_{13}	2006 05 30	F51	Spacewatch
(443680)	2015 KZ_{13}	2007 08 10	F51	Spacewatch
(443681)	2015 KS_{14}	2010 03 16	F51	Mt. Lemmon Survey
(443682)	2015 KZ_{15}	2006 09 30	F51	CSS
(443683)	2015 KF_{16}	2006 01 07	F51	Mt. Lemmon Survey
(443684)	2015 KF_{18}	2010 08 02	D29	LINEAR
(443685)	2015 KQ_{19}	2005 10 29	F52	Mt. Lemmon Survey
(443686)	2015 KK_{22}	1995 08 25	F51	Spacewatch
(443687)	2015 KE_{36}	2007 03 14	F51	Mt. Lemmon Survey
(443688)	2015 KN_{38}	2007 04 22	G96	Spacewatch
(443689)	2015 KM_{39}	2005 11 03	F51	Spacewatch
(443690)	2015 KB_{41}	2008 09 27	F51	Mt. Lemmon Survey
(443691)	2015 KL_{41}	2010 12 14	F51	Mt. Lemmon Survey
(443692)	2015 KD_{47}	2009 03 03	F51	CSS
(443693)	2015 KF_{64}	2004 02 16	F51	Spacewatch
(443694)	2015 KA_{101}	2008 04 24	F51	Mt. Lemmon Survey
(443695)	2015 KJ_{103}	2003 04 09	F51	Spacewatch
(443696)	2015 KD_{107}	2008 12 29	F51	Spacewatch
(443697)	2015 KL_{108}	2009 12 17	F51	Spacewatch
(443698)	2015 KS_{108}	2000 11 20	F51	LONEOS
(443699)	2015 KU_{109}	2003 09 21	F51	Spacewatch
(443700)	2015 KB_{110}	2005 10 31	F51	CSS
(443701)	2015 KE_{110}	2006 02 27	F51	Spacewatch
(443702)	2015 KA_{111}	2006 04 25	F51	Spacewatch
(443703)	2015 KQ_{111}	2005 08 29	F51	Spacewatch
(443704)	2015 KU_{111}	2008 02 02	F51	Mt. Lemmon Survey
(443705)	2015 KM_{112}	2006 05 23	F51	Spacewatch
(443706)	2015 KD_{113}	2009 02 22	F51	CSS
(443707)	2015 KU_{113}	2000 01 08	F51	Spacewatch
(443708)	2015 KY_{122}	2009 03 28	F52	CSS
(443709)	2015 KC_{132}	2009 10 18	F51	Mt. Lemmon Survey
(443710)	2015 KM_{133}	1996 12 17	G96	Spacewatch
(443711)	2015 KA_{135}	2005 10 11	F51	Spacewatch
(443712)	2015 KZ_{136}	1994 09 28	F51	Spacewatch
(443713)	2015 KO_{142}	2004 05 15	F51	LINEAR
(443714)	2015 KR_{144}	2006 10 17	F51	Mt. Lemmon Survey
(443715)	2015 KX_{146}	2008 09 26	F51	Mt. Lemmon Survey
(443716)	2015 KC_{148}	1996 04 20	F51	Spacewatch
(443717)	2015 KA_{157}	2004 02 14	G96	Spacewatch
(443718)	2015 KB_{160}	2003 09 20	G45	LONEOS
(443719)	2015 LC_{1}	2009 02 24	F51	CSS
(443720)	2015 LF_{1}	2008 01 15	F51	Mt. Lemmon Survey
(443721)	2015 LL_{2}	2004 04 21	F51	Spacewatch
(443722)	2015 LM_{9}	2011 04 02	F51	Spacewatch
(443723)	2015 LT_{9}	1999 07 13	F51	LINEAR
(443724)	2015 LH_{12}	2003 09 17	F51	Spacewatch
(443725)	2015 LK_{13}	2007 01 10	F51	Mt. Lemmon Survey
(443726)	2015 LS_{15}	2007 12 18	F51	Mt. Lemmon Survey
(443727)	2015 LT_{15}	2006 12 21	F51	Mt. Lemmon Survey
(443728)	2015 LK_{19}	2007 10 10	F51	Mt. Lemmon Survey
(443729)	2015 LF_{20}	2006 05 03	F51	Mt. Lemmon Survey
(443730)	2015 LL_{20}	2010 04 05	F51	Spacewatch
(443731)	2015 LX_{21}	2001 06 15	G45	LINEAR
(443732)	2015 LD_{22}	2004 05 17	G45	LINEAR
(443733)	2015 LE_{22}	2006 01 25	G45	Spacewatch
(443734)	2015 LH_{22}	2005 08 31	G45	Spacewatch
(443735)	2015 LC_{23}	2007 03 10	F51	Mt. Lemmon Survey
(443736)	2015 LK_{23}	2004 04 30	F51	Spacewatch
(443737)	2015 LT_{29}	2011 08 28	F51	Siding Spring Survey
(443738)	2015 LP_{30}	2007 01 09	F51	Mt. Lemmon Survey
(443739)	2015 LP_{31}	2010 01 12	F51	Mt. Lemmon Survey
(443740)	2015 LF_{32}	1995 02 01	F51	Spacewatch
(443741)	2015 LZ_{32}	1999 05 23	F51	Spacewatch
(443742)	2015 LX_{33}	2010 06 24	F51	WISE
(443743)	2015 LM_{34}	2004 02 17	F51	LINEAR
(443744)	2015 LX_{34}	2006 11 21	F51	Mt. Lemmon Survey
(443745)	2015 LB_{35}	2010 01 15	F51	WISE
(443746)	2015 LE_{35}	2010 05 15	F51	WISE
(443747)	2015 LF_{38}	2008 11 19	G96	CSS
(443748)	2015 LO_{38}	2009 05 01	F51	Mt. Lemmon Survey
(443749)	2015 LM_{39}	2008 06 27	G45	Siding Spring Survey
(443750)	2015 MG	2009 03 02	F51	Mt. Lemmon Survey
(443751)	2015 MU_{6}	2005 08 31	F51	Spacewatch
(443752)	2015 ML_{7}	2005 03 09	F51	Spacewatch
(443753)	2015 MW_{7}	2010 09 10	F51	Mt. Lemmon Survey
(443754)	2015 MK_{8}	2010 06 18	F51	WISE
(443755)	2015 MV_{8}	2003 11 29	F51	Spacewatch
(443756)	2015 MB_{9}	2010 07 08	F51	Spacewatch
(443757)	2015 MF_{9}	2005 09 30	F51	CSS
(443758)	2015 MB_{11}	2003 09 16	F51	Spacewatch
(443759)	2015 MU_{23}	2005 08 31	F51	Spacewatch
(443760)	2015 MC_{24}	2012 09 15	F51	CSS
(443761)	2015 MV_{25}	1999 02 14	F51	Spacewatch
(443762)	2015 MR_{26}	2005 03 04	F51	Mt. Lemmon Survey
(443763)	2015 ME_{31}	2005 10 26	F51	Spacewatch
(443764)	2015 MG_{44}	2012 10 14	F51	Mt. Lemmon Survey
(443765)	2015 MU_{52}	2006 12 13	F51	Mt. Lemmon Survey
(443766)	2015 MC_{55}	1995 12 14	G96	Spacewatch
(443767)	2015 MG_{55}	2006 05 24	F51	Spacewatch
(443768)	2015 MB_{56}	2001 12 18	F51	LINEAR
(443769)	2015 MQ_{56}	2010 06 22	F51	WISE
(443770)	2015 MW_{56}	2011 02 25	F51	Spacewatch
(443771)	2015 ME_{57}	2013 01 06	F51	Spacewatch
(443772)	2015 MU_{57}	2007 09 14	F51	CSS
(443773)	2015 MB_{59}	2004 08 16	F51	Siding Spring Survey
(443774)	2015 MK_{65}	2010 06 14	F52	WISE

(443775)	2015 MW_{65}	2004 05 19	F52	CINEOS
(443776)	2015 MC_{67}	2004 03 18	G45	Spacewatch
(443777)	2015 MS_{67}	2007 06 23	F51	Spacewatch
(443778)	2015 MX_{67}	2004 08 21	F52	Siding Spring Survey
(443779)	2015 ML_{68}	2005 09 29	F51	Spacewatch
(443780)	2015 MO_{68}	1994 11 28	F51	Spacewatch
(443781)	2015 MW_{71}	2009 05 26	F51	Mt. Lemmon Survey
(443782)	2015 MN_{73}	2009 03 16	F51	Mt. Lemmon Survey
(443783)	2015 MB_{74}	2005 11 20	F51	CSS
(443784)	2015 ML_{74}	2010 05 24	F51	WISE
(443785)	2015 MH_{78}	2010 06 24	F51	WISE
(443786)	2015 ME_{89}	2008 04 04	F51	Mt. Lemmon Survey
(443787)	2015 MD_{91}	2001 12 10	F51	Spacewatch
(443788)	2015 MF_{92}	2008 11 03	F51	Mt. Lemmon Survey
(443789)	2015 MZ_{92}	2000 05 29	F51	Spacewatch
(443790)	2015 MB_{93}	2005 07 02	F51	Spacewatch
(443791)	2015 MC_{93}	2009 02 27	F51	Spacewatch
(443792)	2015 ML_{93}	2004 08 09	F51	LONEOS
(443793)	2015 MO_{93}	2010 05 23	F51	WISE
(443794)	2015 MS_{93}	2008 10 22	F51	Mt. Lemmon Survey
(443795)	1917 T-3	1977 10 17	675	van Houten & Gehrels

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2015 June 27.0 TT):

Object	H	M	ω	Ω	i	e	a	MPO
(439831)	17.8	342.61727	71.79756	257.97710	1.12583	0.1735857	2.6211787342361	
(439832)	18.8	348.27505	197.97869	129.44737	1.20465	0.2967749	2.2289724342361	
(439833)	18.1	346.24229	156.58969	189.65836	3.71095	0.1884316	2.2274434342361	
(439834)	17.0	301.79399	5.04355	22.37776	4.85107	0.1850167	2.9740747342361	
(439835)	17.8	282.49581	286.77155	77.93643	5.32945	0.2282755	2.2739753342362	
(439836)	16.3	324.86863	355.61803	353.31947	8.64825	0.2184302	2.8507878342362	
(439837)	16.9	80.24755	284.25790	298.75399	7.58349	0.2019959	2.6089901342362	
(439838)	17.1	63.28885	164.26666	68.11418	14.95648	0.2031978	2.6496257342362	
(439839)	17.7	23.07020	146.56317	117.48338	11.36459	0.2359842	2.3270403342363	
(439840)	17.9	322.04717	19.74075	10.77287	1.08569	0.2651081	2.7415236342363	
(439841)	17.2	11.43343	311.80705	350.15050	6.31355	0.1227704	2.7453562342363	
(439842)	16.6	56.72758	136.14262	153.34400	9.50691	0.1461846	3.0046883342364	
(439843)	17.5	349.43321	64.46279	268.85493	3.58151	0.1919588	2.6197004342364	
(439844)	16.9	332.28918	337.58111	17.20375	5.64472	0.3293750	2.6296344342364	
(439845)	17.5	321.07349	188.92916	195.28406	7.35490	0.3001755	2.2622666342365	
(439846)	17.2	321.06345	45.14094	355.81386	4.76536	0.2894455	2.6100948342365	
(439847)	16.5	330.66736	312.29542	50.77372	0.57379	0.2079120	3.2049959342365	
(439848)	17.4	0.81894	349.23829	351.42091	6.88597	0.3777986	2.6131756342365	
(439849)	15.7	245.98833	101.92791	255.93764	23.59635	0.1866983	2.7554824342366	
(439850)	16.6	316.17404	179.80653	214.20329	13.24895	0.2939908	2.6379798342366	
(439851)	17.7	300.54641	338.92692	46.49044	5.83743	0.1697335	2.2895024342366	
(439852)	17.9	324.45524	11.56211	334.08969	0.94623	0.2440165	2.2900867342367	
(439853)	18.1	309.23260	170.41048	226.39693	4.29302	0.1931314	2.2806912342367	
(439854)	18.8	158.28710	211.24438	274.20146	31.76187	0.3069666	1.5584791342367	
(439855)	17.3	346.55489	102.48340	236.84935	11.39853	0.2875231	2.6589506342368	
(439856)	18.0	302.75269	146.80626	232.29859	4.39897	0.2525270	2.2942601342368	
(439857)	16.8	244.25282	328.56668	106.00977	10.18804	0.1477922	2.7575138342368	
(439858)	7.6	17.58254	185.50218	133.10328	3.19203	0.0375110	42.4761629342368	
(439859)	17.6	312.92183	211.81447	156.53579	1.15312	0.1900638	3.0948051342369	
(439860)	18.1	316.76469	170.80090	209.44199	1.36549	0.2350623	2.5270169342369	
(439861)	17.0	221.60747	79.90053	9.96578	11.38336	0.1567725	2.5940178342369	
(439862)	17.8	316.94823	351.87151	8.53021	5.69090	0.2446361	2.5569018342369	
(439863)	16.2	145.25667	354.33003	188.28146	22.89741	0.0826362	3.1103120342370	
(439864)	16.4	293.66799	167.50897	215.77987	5.10527	0.1797186	3.1523720342370	
(439865)	18.6	349.20854	138.87080	189.55959	1.11978	0.1513275	2.1896012342370	
(439866)	16.1	254.74504	78.85124	351.14004	8.22736	0.1407612	3.1167150342370	
(439867)	16.3	0.65815	92.72529	225.36144	9.52908	0.0135926	3.1789613342371	
(439868)	17.3	287.69716	192.78516	227.21552	10.13053	0.2197734	2.5604634342371	
(439869)	17.4	214.10059	348.51443	64.72666	7.79689	0.0781705	2.2631563342371	
(439870)	17.9	321.65937	324.17799	60.99106	10.19481	0.2557011	2.5472242342371	
(439871)	16.6	235.79905	63.94353	19.09351	5.61418	0.1052628	3.1807627342371	
(439872)	18.0	272.38674	337.21272	77.46238	3.74184	0.1405645	2.5850503342372	
(439873)	18.1	341.35782	248.31609	88.99872	3.65136	0.1626622	2.2021763342372	
(439874)	17.9	286.10942	310.80807	76.75235	3.24815	0.1264263	2.5937324342372	
(439875)	17.2	295.38760	344.95824	36.25946	5.44378	0.2748554	2.5784631342372	
(439876)	16.5	274.23411	225.42664	194.07620	11.76894	0.3088184	3.1543440342373	
(439877)	19.5	59.99425	105.69739	73.03962	21.61993	0.3693197	1.2363043342373	
(439878)	18.1	257.01329	349.97186	73.06197	3.37053	0.1486326	2.5987668342373	
(439879)	18.0	292.78376	156.95052	236.23974	4.05083	0.1260035	2.2069511342374	
(439880)	17.8	307.60144	299.81783	98.32738	7.33999	0.3596831	2.5686179342374	
(439881)	16.7	284.24979	118.65015	252.27380	12.19343	0.2711898	2.6031624342374	
(439882)	17.2	198.69231	167.07218	293.36871	11.17017	0.1283004	2.6800258342374	
(439883)	16.0	254.48672	157.96943	286.38509	21.03773	0.0969914	2.6126739342375	
(439884)	17.1	52.44618	152.17019	101.31939	7.19769	0.0612837	2.6849790342375	
(439885)	17.7	144.86592	29.82812	139.40966	24.47481	0.2325829	1.7909250342375	
(439886)	16.0	218.76508	12.07469	211.10503	37.63487	0.2893414	2.6189044342375	
(439887)	17.3	359.62292	353.24187	313.68823	4.81969	0.3166231	2.3996959342376	
(439888)	18.2	61.05028	351.25703	237.08529	3.51829	0.0901029	2.4100373342376	
(439889)	20.1	339.46141	358.71448	309.79641	6.11982	0.4581000	2.0861338342376	
(439890)	17.9	314.82491	230.29769	138.78868	4.48259	0.3722904	2.4263879342377	
(439891)	16.9	327.80132	29.20319	310.56217	11.07808	0.2262840	2.4201198342377	
(439892)	17.2	324.95752	115.47216	262.54602	7.68995	0.2900423	2.4099461342377	
(439893)	17.8	322.09888	248.21571	153.66094	4.57712	0.2851011	2.4055583342378	
(439894)	17.1	296.91509	201.69239	169.94621	0.83281	0.2057676	2.4634034342378	
(439895)	17.5	354.22403	176.33799	152.63064	5.55413	0.2686456	2.4164090342378	
(439896)	17.3	305.22230	8.51801	13.75916	5.75403	0.1817370	2.9862224342379	
(439897)	17.4	98.66174	218.33888	330.77622	19.11059	0.0201412	1.8649949342379	
(439898)	19.7	278.54411	200.30760	206.86964	11.99963	0.2453077	1.5216565342379	
(439899)	16.8	318.59803	73.69622	288.39290	6.42964	0.1352336	2.4504469342379	
(439900)	16.2	176.72543	181.02821	258.89646	13.05273	0.1356400	2.5705027342380	
(439901)	18.0	265.74388	122.61335	300.55338	1.57260	0.2346046	2.4753824342380	
(439902)	16.0	285.38141	141.41338	233.73726	19.24589	0.2853125	3.0653490342380	
(439903)	15.6	292.41690	129.93202	238.97793	18.52878	0.2853781	3.0557480342380	
(439904)	17.3	331.95606	119.75741	243.55786	8.09494	0.2596646	2.4406987342381	
(439905)	17.0	319.29723	332.27688	42.71458	6.36144	0.2096180	2.4488539342381	
(439906)	17.6	347.94144	235.39826	154.20134	8.29485	0.3161115	2.3955473342381	
(439907)	14.3	318.38042	2.22263	40.05800	11.69016	0.3226770	3.9869651342381	
(439908)	19.2	282.19565	104.62934	295.89289	16.94566	0.2251818	1.5257474342382	
(439909)	17.8	169.29025	186.55104	295.27197	18.99416	0.0569235	1.9072857342382	

(439910)	17.6	273.42146	113.99898	305.34672	19.20594	0.1261725	1.8697119342382
(439911)	17.4	175.77797	306.95518	142.33152	24.43078	0.0780306	1.9365384342383
(439912)	17.4	68.32992	13.13292	153.56419	7.62591	0.2201150	2.2766335342383
(439913)	16.9	57.30524	3.48462	185.38172	23.87582	0.2068261	2.2717468342383
(439914)	18.0	339.75572	335.39059	10.06664	3.49679	0.2979611	2.2906594342384
(439915)	17.9	3.53636	334.88909	321.40673	5.90337	0.2805883	2.2954239342384
(439916)	16.0	23.32624	310.51271	16.17394	12.24939	0.1266466	2.7328667342384
(439917)	16.4	342.06266	37.53275	318.97014	7.40207	0.3316003	2.7891768342384
(439918)	16.6	347.13504	29.84208	318.23043	11.64557	0.3058774	2.7898550342385
(439919)	18.2	329.06004	67.98908	284.61498	4.17105	0.2894815	2.3106510342385
(439920)	17.3	31.07543	107.07065	159.08559	22.28366	0.2097575	2.2959482342386
(439921)	17.3	307.34240	119.45166	269.71497	5.47842	0.1843456	2.3025961342386
(439922)	18.5	341.80126	143.03267	184.27301	2.78786	0.2679145	2.3157732342386
(439923)	17.7	358.58883	184.66138	131.51649	4.33396	0.2419072	2.3049395342387
(439924)	17.0	344.52330	47.43581	293.70940	8.12755	0.2291274	2.8043127342387
(439925)	16.2	3.92562	341.02165	346.28447	13.27493	0.1926791	2.7709048342387
(439926)	18.0	314.45725	218.61324	144.84364	6.10245	0.2615192	2.3119802342388
(439927)	18.4	331.15259	191.73695	169.30191	2.44081	0.2291961	2.2968602342388
(439928)	18.4	325.62375	6.74458	1.89610	2.29772	0.3075258	2.3050389342388
(439929)	18.1	355.37404	333.83030	354.45548	2.67728	0.2400914	2.2974636342389
(439930)	17.0	349.49587	236.76930	154.21732	8.58604	0.2906560	2.7419969342389
(439931)	17.6	286.56305	268.00218	151.87669	23.27063	0.3154806	1.9963771342389
(439932)	17.7	355.34344	223.28505	90.53754	3.24420	0.2362006	2.3132403342389
(439933)	16.4	341.44038	342.03847	5.90175	11.93804	0.1546123	2.8041808342390
(439934)	16.7	317.76635	172.69755	215.39109	7.56336	0.2283613	2.7956111342390
(439935)	17.4	334.74268	176.72270	172.05628	5.34868	0.1898844	2.3207151342390
(439936)	17.5	348.91677	332.94112	20.01418	11.22821	0.2805108	2.2992933342391
(439937)	17.8	322.62175	213.31899	156.94701	4.57338	0.1885599	2.3198083342391
(439938)	16.4	355.40231	344.37110	16.84658	9.58987	0.2200041	2.7810634342392
(439939)	18.2	337.46686	162.57198	161.20520	1.11642	0.2103757	2.3263160342392
(439940)	17.1	321.23337	49.04823	274.17226	4.08661	0.2582598	2.8621983342392
(439941)	17.0	336.94390	19.85585	335.68992	9.14533	0.1972708	2.8045926342393
(439942)	18.4	331.72680	114.86424	218.96003	0.71643	0.2027026	2.3286571342393
(439943)	17.6	288.17184	160.06054	203.83479	6.71292	0.2460226	2.3613009342393
(439944)	16.3	343.56261	206.03319	172.71861	13.06922	0.1929108	2.7750825342393
(439945)	16.8	3.89244	150.64376	178.52792	10.06494	0.2133261	2.7976450342394
(439946)	17.6	342.69091	167.80622	175.78343	6.01975	0.2030088	2.3197470342394
(439947)	17.8	347.62250	280.16064	61.81926	3.03340	0.2471813	2.3088436342394
(439948)	17.0	351.93366	23.38514	330.05409	7.02214	0.2790458	2.7829582342395
(439949)	18.4	314.15863	355.35303	6.29065	1.38603	0.2079217	2.3299680342395
(439950)	17.6	281.68183	164.72186	252.02219	3.89984	0.2014410	2.3241082342395
(439951)	18.4	310.47492	12.74416	355.69743	1.23634	0.1972336	2.3292705342395
(439952)	16.9	354.42769	105.85206	236.92261	7.54163	0.3074454	2.7731129342396
(439953)	18.3	336.46903	148.48343	210.50216	4.42430	0.2801272	2.3054195342396
(439954)	17.3	294.80968	176.98540	216.24339	21.38635	0.1068000	2.0039396342396
(439955)	17.8	291.84033	331.32523	52.79958	2.96386	0.2195432	2.3492790342397
(439956)	18.1	293.96687	263.28781	127.23565	1.33630	0.1877272	2.3379242342397
(439957)	16.9	248.69752	93.27908	355.05990	11.18062	0.1116732	2.3325464342397
(439958)	18.4	348.69439	4.71945	338.39321	1.87548	0.2792536	2.3106517342397
(439959)	17.7	305.23794	101.68905	274.01303	3.51753	0.2583076	2.3455407342398
(439960)	16.4	339.04682	329.26099	36.83160	12.24844	0.2504471	2.7961761342398
(439961)	16.3	357.43374	190.10177	190.01982	13.01130	0.2822689	2.7851290342398
(439962)	18.5	293.22988	38.88901	5.33464	8.71864	0.2414443	2.3281523342399
(439963)	16.5	255.01324	249.30807	214.80935	6.83789	0.2787840	2.8724963342399
(439964)	18.5	315.56386	163.87054	204.51376	2.90053	0.2725964	2.3331607342399
(439965)	17.2	267.41392	342.29911	60.90609	3.85126	0.1981657	2.3725042342400
(439966)	17.7	336.33762	290.96519	53.25338	10.67404	0.2591798	2.3386921342400
(439967)	16.9	325.77834	36.85992	340.49682	3.34095	0.1131061	2.8150935342400
(439968)	17.1	317.21753	284.91851	100.58275	4.29697	0.1977407	2.8121795342401
(439969)	18.5	279.14680	171.87954	241.68954	0.72122	0.1672922	2.3454009342401
(439970)	16.3	275.55340	12.47451	50.38195	12.09975	0.1068020	2.8725164342401
(439971)	15.9	303.88909	352.48969	50.72214	11.88074	0.1464298	2.8618559342401
(439972)	17.2	340.31748	347.38671	55.49390	6.34660	0.1587308	2.2967115342402
(439973)	17.2	296.86404	321.18863	20.90023	5.28576	0.2584704	2.3800909342402
(439974)	16.5	339.17722	92.75034	263.11463	20.84761	0.3423283	2.3346673342402
(439975)	18.0	321.84108	333.84413	38.47962	6.21300	0.1648854	2.3345293342403
(439976)	18.0	266.70747	5.56557	68.90731	7.14351	0.2216350	2.3512215342403
(439977)	18.2	300.03137	357.33885	44.51629	3.64921	0.1793241	2.3330096342403
(439978)	17.5	347.86469	284.19789	52.09157	11.16881	0.2677673	2.3178750342403
(439979)	17.9	316.98204	152.66844	218.48378	4.39746	0.1496438	2.3337108342404
(439980)	17.8	352.11273	129.87435	207.05655	1.79128	0.2322976	2.3219707342404
(439981)	18.0	325.85267	281.22847	63.16791	3.73158	0.2237761	2.3462205342404
(439982)	17.9	308.91146	136.89768	259.00620	4.12644	0.2404033	2.3262050342405
(439983)	17.4	313.57743	44.16867	338.35302	4.19173	0.2510273	2.3380832342405
(439984)	17.3	260.14682	171.49718	243.90096	8.31719	0.1317164	2.3788525342405
(439985)	16.0	299.65288	338.80474	63.73364	16.12092	0.1294877	2.8602531342406
(439986)	17.5	299.19949	308.64652	93.05041	6.61809	0.2400596	2.3377536342406
(439987)	15.0	260.87836	182.26852	266.09758	7.59821	0.1999666	3.9373990342407
(439988)	17.3	271.67924	18.91053	93.78238	5.16709	0.2638179	2.3343835342407
(439989)	16.8	276.94283	326.61317	74.80661	10.50025	0.0956433	2.3784909342407
(439990)	17.3	332.83171	95.19729	276.16866	8.93412	0.2575458	2.3304328342408
(439991)	17.5	296.94047	299.28468	85.26557	1.26562	0.1639162	2.3749298342408
(439992)	16.5	283.42202	337.43237	72.62594	10.23235	0.1242097	2.9147191342408
(439993)	17.6	333.86016	283.45062	73.39355	8.11462	0.1412034	2.3527092342408
(439994)	17.1	254.00414	316.46130	152.74662	24.63908	0.3804816	2.3507536342409
(439995)	15.3	285.49617	136.88114	289.53705	6.51929	0.2261680	3.9398796342409
(439996)	17.2	241.64778	327.29066	134.35765	7.07523	0.1606402	2.3856182342409
(439997)	15.3	177.28230	181.86077	313.50818	10.76940	0.0690898	3.0526574342410
(439998)	16.4	53.51590	243.68258	330.74901	26.69605	0.4337989	2.5853257342410
(439999)	16.7	49.26445	22.09563	167.73353	14.72094	0.4381402	2.6191747342410
(440000)	17.1	260.85745	326.16830	135.90976	7.57035	0.0721069	2.3882159342411
(440001)	17.7	275.91817	316.92431	113.81482	3.89519	0.1757285	2.3914127342411
(440002)	17.8	345.22078	259.70414	138.59566	7.05241	0.2801210	2.3267235342411
(440003)	16.0	212.42037	175.58238	313.81252	9.69623	0.0483310	3.0224557342412
(440004)	15.5	77.97973	246.39209	340.69320	16.01668	0.1800927	3.1741363342412
(440005)	16.2	185.23887	155.33665	339.29179	11.56969	0.1529781	3.1002135342412
(440006)	17.6	215.07238	105.26049	12.14904	3.07373	0.1455039	2.4429430342412
(440007)	17.3	39.18035	120.62509	133.94481	5.64399	0.2404788	2.5658169342413
(440008)	17.4	33.03256	63.45248	155.98740	13.74911	0.2339688	2.6163581342413
(440009)	16.3	34.31952	103.19359	153.22025	28.48493	0.3602816	2.6046887342413
(440010)	17.2	59.50841	111.33094	121.05114	12.56551	0.2081754	2.5821748342414
(440011)	16.7	69.64352	283.04944	299.17566	14.77298	0.2504628	2.6142981342414
(440012)	19.2	356.77919	83.64990	226.27596	3.09761	0.4546638	2.1793770342414
(440013)	16.8	16.33126	155.06516	122.68440	14.73200	0.2397965	2.6366384342415

(440014)	16.1	354.99549	59.24800	288.75441	30.33700	0.2210967	2.6063103342415
(440015)	17.5	17.56311	103.17915	171.79105	11.43069	0.2890074	2.6389346342415
(440016)	17.0	328.05814	168.25151	194.12565	12.64198	0.3045458	2.6517248342415
(440017)	16.1	350.44486	86.63602	268.00832	26.30778	0.4307523	2.6188866342416
(440018)	17.7	349.16559	115.40065	220.65913	4.76832	0.3318983	2.6395806342416
(440019)	18.1	332.04103	73.14236	264.00722	5.86766	0.1905831	2.1924730342416
(440020)	19.0	339.90175	314.92112	3.25942	4.09028	0.1708624	2.1930767342417
(440021)	16.2	358.81068	71.07590	284.96579	25.49897	0.3397574	2.6214572342417
(440022)	17.1	337.05685	105.44211	265.08818	8.42054	0.4125162	2.6381919342417
(440023)	17.3	340.26399	197.99806	142.89502	13.59896	0.2754801	2.6455976342418
(440024)	18.0	5.50504	22.55277	275.42324	5.22412	0.1930155	2.1923843342418
(440025)	18.8	15.37411	130.98674	150.49467	2.45627	0.1517128	2.1924771342418
(440026)	16.9	355.59630	2.50171	325.62002	12.10725	0.3121637	2.6292355342418
(440027)	17.3	328.86437	52.23398	316.52396	12.60350	0.2873901	2.6466738342419
(440028)	18.3	353.84888	159.06478	153.28026	7.33639	0.2813737	2.6509228342419
(440029)	17.1	311.60960	73.53854	303.75491	15.41869	0.2467170	2.6596199342419
(440030)	17.1	311.12271	86.92068	274.41727	6.89696	0.2715958	2.6827106342420
(440031)	15.6	290.81029	95.91928	281.75679	15.39352	0.2066630	2.7154067342420
(440032)	17.8	338.45936	21.49079	342.93676	7.80373	0.1980310	2.1695387342420
(440033)	16.6	314.04785	102.74048	301.69314	10.30013	0.3031570	2.6447028342420
(440034)	17.4	346.75807	94.51136	224.24625	5.23548	0.1464211	2.6631132342421
(440035)	16.8	345.70320	350.01813	347.75648	13.81464	0.2714109	2.6513243342421
(440036)	17.0	359.01933	354.24174	323.30523	11.88360	0.2647354	2.6512867342421
(440037)	16.7	325.88901	75.27568	317.01721	14.60088	0.2521031	2.6417783342422
(440038)	17.2	311.46625	235.81918	102.93549	5.38552	0.2649089	2.6961965342422
(440039)	17.0	25.53156	146.39525	133.50734	14.77552	0.2548351	2.6346488342422
(440040)	17.5	330.16486	238.47823	140.92348	14.04501	0.2867079	2.6225191342422
(440041)	16.5	19.81237	331.88511	331.83755	13.35294	0.0896825	2.6422939342423
(440042)	16.7	329.13696	332.49043	60.39944	3.64472	0.1979129	2.6210419342423
(440043)	17.2	325.20350	46.61762	320.95592	27.83231	0.2700686	2.1795797342423
(440044)	17.5	1.28897	192.73897	114.02920	5.34762	0.1519141	2.6671564342423
(440045)	18.5	211.12101	296.53446	155.54192	23.86957	0.0958878	1.9011990342424
(440046)	18.3	329.94763	350.49796	350.34453	1.59967	0.1568524	2.2038184342424
(440047)	17.3	279.81718	257.47451	140.78584	14.82166	0.2120523	2.6983433342424
(440048)	16.4	233.59694	237.52060	154.81255	16.63104	0.2762167	2.7843498342424
(440049)	17.1	308.27286	94.38666	314.37834	10.30115	0.3023233	2.6442104342425
(440050)	17.1	19.06378	354.26283	302.40535	11.40182	0.1742804	2.6477516342425
(440051)	18.6	307.22955	291.47369	33.46932	1.97396	0.1807758	2.2385999342425
(440052)	17.3	320.16365	26.99127	347.19163	4.59183	0.2462000	2.6349470342425
(440053)	16.8	358.20397	343.02584	359.94898	14.14902	0.0784281	2.6336072342426
(440054)	17.0	350.82459	217.46788	170.60974	13.48982	0.2447721	2.6058538342426
(440055)	16.1	344.37327	8.05981	4.98488	8.18880	0.1976328	2.6341481342426
(440056)	16.7	309.24426	78.97900	312.13715	3.37542	0.3240344	2.6828949342426
(440057)	16.7	298.44067	145.23788	260.95937	7.36780	0.2873765	2.6705745342427
(440058)	16.9	7.03012	62.70724	252.08573	6.49111	0.2163017	2.6458885342427
(440059)	16.8	312.45894	208.68594	184.73735	4.92326	0.3214148	2.6886731342428
(440060)	17.7	359.19075	339.14609	0.84660	5.56050	0.2242599	2.1850437342428
(440061)	16.9	278.27648	83.52888	330.01496	8.34398	0.2591915	2.7102656342428
(440062)	18.2	322.58157	9.59655	334.80223	14.90088	0.1022192	1.8989968342429
(440063)	16.8	284.33242	172.76756	196.46692	7.35452	0.2862904	2.7338934342429
(440064)	17.6	326.23083	72.64382	290.10095	5.97999	0.1775588	2.1981093342429
(440065)	16.4	325.70346	54.06355	355.73823	27.32972	0.1190407	2.6028813342429
(440066)	18.3	209.27032	294.69091	171.03591	22.95217	0.0576806	1.8958494342430
(440067)	16.7	14.87274	324.35384	330.07524	12.52434	0.1612437	2.6657455342430
(440068)	17.3	317.63681	171.10716	197.48531	5.91948	0.1687626	2.6562966342430
(440069)	16.5	278.00870	314.28398	100.98977	13.26640	0.1460095	2.6735004342431
(440070)	17.9	308.16699	114.82490	265.65251	5.95571	0.1920818	2.1967651342431
(440071)	18.3	317.02194	156.92767	195.42593	2.97803	0.2021813	2.2179649342431
(440072)	17.8	289.28980	3.64717	27.18136	3.72768	0.2777379	2.7159015342431
(440073)	16.7	333.99048	25.17886	6.02771	12.69334	0.2966082	2.6443200342432
(440074)	18.8	306.55746	170.92710	180.14573	8.82196	0.2751964	2.2276799342432
(440075)	16.9	315.27695	186.27569	179.36423	8.73504	0.2778741	2.6982757342432
(440076)	18.5	235.09320	68.73571	14.54763	4.08523	0.1362519	2.2289488342433
(440077)	17.5	2.27699	177.29446	137.67813	14.41429	0.2044539	2.6681442342433
(440078)	16.6	308.00467	188.15595	192.88137	13.47416	0.1388287	2.6932253342433
(440079)	17.2	283.71325	56.90854	359.91789	5.47619	0.2674349	2.7101733342433
(440080)	16.9	296.23658	80.40752	335.39976	11.50351	0.2633414	2.6836939342434
(440081)	17.5	39.38649	289.05248	349.99702	20.10340	0.0608796	1.9003489342434
(440082)	17.0	355.57658	44.80370	282.22200	6.80507	0.2239476	2.6676128342434
(440083)	16.6	329.83007	31.55686	329.05601	12.53150	0.1814639	2.6701851342435
(440084)	17.2	291.54527	119.13295	285.79865	11.72599	0.2624788	2.6995571342435
(440085)	16.1	301.37712	246.65971	182.63329	27.68148	0.2890961	2.6667480342435
(440086)	18.0	321.90376	60.12677	290.01802	4.39502	0.2175571	2.2121754342435
(440087)	17.5	353.10702	328.52982	56.58371	7.42500	0.2650534	2.6233421342436
(440088)	17.0	302.43335	35.65915	17.70493	6.03079	0.2762981	2.6897960342436
(440089)	16.5	13.23893	79.24911	249.82803	10.29293	0.3195615	2.6355474342436
(440090)	16.6	317.26664	21.59642	6.59515	8.66492	0.2891727	2.6963235342436
(440091)	17.6	325.54292	28.44179	310.42185	2.01084	0.0981243	2.7067917342437
(440092)	17.1	359.12826	152.56624	204.00167	12.74147	0.1948031	2.6131181342437
(440093)	16.2	20.72302	88.57089	218.12877	5.85782	0.0634860	3.5076375342437
(440094)	16.7	336.61292	21.48898	305.48703	14.17413	0.0669089	2.6849738342437
(440095)	17.0	316.60484	227.06112	177.65649	8.76033	0.2391264	2.6882863342438
(440096)	18.0	285.84451	337.39597	54.22102	6.53902	0.1827284	2.2495632342438
(440097)	16.8	320.91212	127.44735	252.11456	11.71516	0.2358648	2.7021445342438
(440098)	16.4	295.53961	83.44808	281.24560	9.32153	0.3311976	2.7707335342438
(440099)	17.0	300.17455	160.91001	249.38916	3.55589	0.2506133	2.7197315342439
(440100)	18.1	281.39600	259.00370	129.00312	3.73400	0.1243828	2.2643471342439
(440101)	16.6	194.69184	13.18905	118.11252	26.02309	0.2390999	2.2935261342439
(440102)	17.2	304.93519	99.29171	283.81110	19.18818	0.1357860	1.9303999342440
(440103)	17.0	258.46678	0.12756	92.40777	8.22270	0.2758243	2.7745157342440
(440104)	16.4	277.09423	108.24847	317.78345	25.58055	0.3111723	2.7925465342440
(440105)	17.6	173.19503	161.91762	325.96177	17.84913	0.0808969	1.9788597342441
(440106)	17.7	77.43060	220.64312	349.60450	1.77016	0.1596644	2.4254684342441
(440107)	17.2	60.39982	68.37720	157.60616	11.38273	0.2137463	2.4466207342441
(440108)	15.7	25.02752	212.84398	121.26335	15.89284	0.2393637	3.0667788342441
(440109)	16.3	77.83427	100.16015	102.89713	10.78816	0.1569184	3.1628955342442
(440110)	17.5	307.03666	166.92707	187.84002	12.61899	0.2973774	2.5663575342442
(440111)	17.8	304.30071	189.28407	179.42113	2.85457	0.2459346	2.5784574342442
(440112)	17.8	323.29388	35.44313	347.73727	5.44148	0.2731018	2.5290278342442
(440113)	17.2	276.71829	356.62236	13.02626	4.08685	0.2167170	2.6118953342443
(440114)	17.8	317.20889	63.49794	298.81314	4.35646	0.2764976	2.5505496342443
(440115)	16.3	306.14846	107.98919	222.70130	12.48670	0.1261215	2.5926844342443
(440116)	17.1	338.35213	343.35797	4.93423	13.41144	0.2236601	2.5334668342444
(440117)	17.1	7.65179	307.81383	291.01474	4.99611	0.1120510	2.6552479342444

(440118)	17.5	323.04999	170.24873	180.52462	10.85039	0.1389511	2.5598583342444
(440119)	18.1	295.91328	102.55434	311.33644	4.97204	0.3115742	2.5522744342445
(440120)	17.4	301.53515	148.51440	209.63768	13.13290	0.2689629	2.5930698342445
(440121)	17.5	291.67371	161.99098	198.53499	15.13131	0.2669987	2.6120155342445
(440122)	17.7	321.33353	175.40547	183.81197	11.15024	0.2026730	2.5554857342445
(440123)	17.8	333.83035	313.43971	20.72332	5.87587	0.2347483	2.5496103342446
(440124)	18.3	300.96092	86.19494	327.18315	2.86850	0.3079986	2.5590609342446
(440125)	15.6	8.75680	51.97665	266.74891	9.06689	0.0952007	3.4184712342447
(440126)	18.0	1.93832	156.21363	160.73041	2.32874	0.0997719	2.5598663342447
(440127)	17.4	335.16736	204.77562	128.79284	4.55143	0.2187807	2.5618217342447
(440128)	16.9	350.42901	57.64404	269.23843	11.39193	0.1965747	2.5362090342447
(440129)	16.5	106.37705	247.03361	324.33018	12.46503	0.1130145	2.5453468342448
(440130)	17.5	231.06627	84.46377	3.52746	9.69837	0.0415901	2.5624979342448
(440131)	18.0	281.23363	20.30697	20.72644	2.18510	0.2208717	2.5911302342448
(440132)	18.1	296.13742	161.60172	251.54687	2.96438	0.2993585	2.5349175342448
(440133)	17.1	302.59829	271.64828	107.95221	12.74595	0.0601088	2.5929745342449
(440134)	16.7	261.79987	74.90266	338.33527	10.72022	0.1922282	2.6113815342449
(440135)	17.9	313.39397	302.88982	79.06646	9.20778	0.3594461	2.5513538342449
(440136)	17.6	291.98853	33.86959	28.59390	12.97280	0.2849637	2.5521138342449
(440137)	18.2	330.07380	193.17229	171.05576	3.32998	0.1229494	2.5422809342450
(440138)	17.4	324.57415	264.31776	91.79560	6.80213	0.2814127	2.5526034342450
(440139)	17.6	344.39871	57.05012	287.39107	3.18951	0.2330549	2.5342918342450
(440140)	16.9	276.15713	298.13868	114.75226	8.46849	0.1758205	2.5759915342450
(440141)	17.8	326.68631	90.32174	288.80103	7.22954	0.2639173	2.5279785342451
(440142)	17.3	338.66874	186.71159	158.58396	4.88017	0.2576474	2.5460409342451
(440143)	17.4	347.60659	284.83772	50.50316	7.00929	0.2730783	2.5389234342451
(440144)	17.3	257.23863	354.81669	77.57315	5.68229	0.1081437	2.5767609342452
(440145)	18.9	297.43015	353.15352	348.45872	0.92862	0.1932845	2.1351635342452
(440146)	18.0	326.53372	34.01936	314.14960	1.49530	0.2215822	2.5659541342452
(440147)	17.8	320.69920	188.58502	176.12463	5.04729	0.3165259	2.5609439342453
(440148)	17.2	283.57568	9.59335	34.40127	5.46256	0.2470041	2.5952289342453
(440149)	17.1	322.21171	341.04464	28.35025	14.63736	0.1844103	2.5514220342453
(440150)	18.1	325.82965	330.15498	35.37602	4.97764	0.3166538	2.5558163342454
(440151)	17.2	329.99970	359.45037	359.07039	11.70121	0.0556729	2.5634469342454
(440152)	17.9	273.98702	206.32011	241.01571	5.58616	0.2940089	2.5741562342455
(440153)	17.9	0.35060	68.90698	225.40215	4.50793	0.1606582	2.5594597342455
(440154)	18.1	293.10748	336.32515	60.03532	0.97618	0.1483431	2.5544270342455
(440155)	17.9	301.13710	67.61980	337.86938	3.68665	0.2728222	2.5656608342455
(440156)	18.3	297.41838	138.18519	282.85024	5.32479	0.2735872	2.5569555342456
(440157)	16.1	284.68288	109.77954	260.39141	27.94772	0.3486271	2.6377865342456
(440158)	17.7	332.62733	344.75704	17.49994	4.12507	0.2711364	2.5553131342456
(440159)	17.4	271.73277	34.22825	18.71894	5.42012	0.2376468	2.6051159342457
(440160)	17.2	355.77534	321.16999	17.24711	5.34962	0.2972024	2.5362080342457
(440161)	16.9	223.17026	192.44797	255.52978	12.87832	0.1439759	2.6454172342458
(440162)	16.1	114.21614	309.10408	251.89789	21.14149	0.0508020	2.6503625342458
(440163)	16.4	214.22166	165.46866	250.05224	8.90528	0.1974900	2.7202264342458
(440164)	17.6	312.49457	152.42260	242.26274	4.57552	0.2807814	2.5631960342458
(440165)	17.4	324.98965	8.87693	9.56567	4.55877	0.2564380	2.5471167342459
(440166)	17.8	300.38753	131.04740	254.38293	7.91322	0.2311020	2.5941283342459
(440167)	17.7	269.27331	42.98657	29.92287	5.88409	0.2410542	2.6047008342460
(440168)	16.8	234.32188	35.73631	71.72838	9.43650	0.1512804	2.6183321342460
(440169)	17.7	12.51750	121.74821	157.83626	5.53571	0.1331521	2.5732304342460
(440170)	16.9	304.48669	168.52073	228.81868	9.06381	0.2807773	2.5822390342460
(440171)	16.7	308.30436	305.36145	102.62154	6.32776	0.3046230	2.5752814342461
(440172)	17.0	282.23943	328.54880	97.90179	7.96881	0.3177741	2.6261361342461
(440173)	16.2	125.26432	214.05577	315.37734	12.67029	0.1407276	2.7870689342462
(440174)	18.3	291.20835	98.98867	265.45425	3.50912	0.2817673	2.1536891342462
(440175)	16.6	290.08610	99.45081	333.35694	12.53709	0.2034867	2.6081947342462
(440176)	17.2	311.96336	344.35129	45.69935	6.17223	0.3346163	2.5851302342463
(440177)	16.9	248.03898	255.02788	150.64189	5.57461	0.0472016	2.7648573342463
(440178)	17.3	307.76745	286.00179	114.53334	5.23900	0.3201577	2.6041291342463
(440179)	16.5	287.48407	113.10435	330.46283	26.75170	0.4101906	2.6049395342464
(440180)	17.3	273.28130	343.65954	92.87141	4.16063	0.1789204	2.6362583342464
(440181)	17.1	69.45814	59.85502	158.08821	23.39799	0.2136134	2.2726735342465
(440182)	18.1	39.64960	118.63128	148.85740	22.94259	0.0745106	1.8783370342465
(440183)	16.2	197.71875	354.82721	148.32628	22.70958	0.1374733	2.7076145342465
(440184)	16.9	277.86730	293.93551	142.78358	14.45746	0.2537662	2.6487328342466
(440185)	17.1	205.86766	7.87866	96.54952	10.43440	0.1602560	2.7417197342466
(440186)	16.7	155.94053	172.65079	338.45147	8.80823	0.2008982	2.7783699342466
(440187)	15.8	131.26919	211.16944	308.22531	14.19970	0.0764958	2.8386308342466
(440188)	17.0	144.93058	188.31949	341.72954	7.46123	0.1489989	2.7900714342467
(440189)	16.7	157.77134	174.45401	342.18251	8.85017	0.0981648	2.7765746342467
(440190)	16.4	192.29915	115.04430	27.56169	8.49057	0.2490627	2.7661827342467
(440191)	18.1	166.83999	317.41281	174.77861	20.99132	0.0594389	1.8906691342468
(440192)	17.5	339.04995	325.07730	3.82744	18.99302	0.0543832	1.8810306342468
(440193)	17.6	170.52260	333.13623	150.62848	22.84548	0.0788335	1.8897199342468
(440194)	16.0	106.31643	220.54638	329.68647	15.25069	0.1737326	2.8669057342468
(440195)	17.4	41.34450	116.53231	88.88583	7.96642	0.1997669	2.3320689342469
(440196)	15.2	191.98773	133.66912	357.12346	9.02744	0.1998520	3.9646739342469
(440197)	18.5	54.86691	17.00057	194.45543	1.56198	0.2207613	2.3179112342469
(440198)	17.7	128.29962	44.67938	136.97797	23.89884	0.0757223	1.8923537342469
(440199)	16.2	42.32645	321.02147	234.98356	13.87533	0.2526033	3.0629030342470
(440200)	17.7	50.71791	148.54214	75.84208	5.85751	0.2100215	2.3134603342470
(440201)	17.5	26.86015	160.75730	109.35414	8.47449	0.2079181	2.3255037342470
(440202)	17.6	132.39025	240.61126	248.04918	18.34687	0.0811240	1.9255192342471
(440203)	16.6	83.73624	147.67008	52.06144	6.28110	0.1755534	2.9153234342471
(440204)	16.9	44.99019	173.70659	67.92554	7.77366	0.2534613	2.9887486342471
(440205)	17.3	359.43674	88.78148	228.72966	11.09550	0.2235792	2.3593153342471
(440206)	17.4	1.52363	189.99162	108.86179	10.89298	0.2576822	2.3654383342472
(440207)	17.1	13.45609	19.40474	274.87150	6.56385	0.2783780	3.0655745342472
(440208)	15.9	349.29123	33.38152	340.70123	9.07521	0.4310445	3.0817954342472
(440209)	17.7	338.46155	35.21438	299.21434	8.70698	0.2650423	2.3815497342473
(440210)	15.5	333.81022	29.44854	308.09701	16.67756	0.1742598	3.1418172342473
(440211)	16.9	15.45144	319.49020	346.54622	23.89472	0.1904513	2.3526523342474
(440212)	18.8	317.65124	223.20925	174.58899	3.44178	0.4301689	1.6809805342474
(440213)	17.5	325.81449	328.11531	349.44271	4.76887	0.2481267	2.3986267342475
(440214)	15.7	355.54727	358.21510	322.29970	18.56063	0.1949946	3.0873688342476
(440215)	17.3	9.33771	99.52616	222.73341	3.88531	0.2537703	2.3393641342476
(440216)	17.0	343.55219	35.63205	302.02095	5.81162	0.1421586	2.3674949342476
(440217)	17.7	357.39952	191.05571	145.87187	12.17815	0.2468368	2.3450352342477
(440218)	16.8	16.70424	349.77534	328.08037	3.98114	0.2397280	3.0435358342477
(440219)	17.5	351.86416	4.89456	329.53092	1.53011	0.2369863	2.3656174342477
(440220)	17.7	337.30538	217.44139	128.42692	5.97323	0.2644127	2.3837792342477
(440221)	17.4	3.91276	337.66395	334.40998	5.85922	0.2486269	2.3535634342478

(440222)	16.5	317.38282	342.99054	340.94081	11.50515	0.2581015	2.4426608342478
(440223)	17.9	22.67727	324.15563	315.52638	17.63990	0.0662164	1.9611841342478
(440224)	17.9	338.61786	289.87978	56.26302	3.78026	0.2180309	2.3685134342479
(440225)	15.8	310.07280	56.45139	324.02399	9.07404	0.1484436	3.1306101342479
(440226)	16.1	300.38209	229.64484	142.86939	12.69365	0.0861620	3.1179316342479
(440227)	17.6	305.53984	306.02859	67.47223	3.04030	0.2310015	2.3906854342480
(440228)	15.9	23.32448	314.50573	338.09421	17.66376	0.2605239	3.0907818342480
(440229)	16.1	346.37780	308.66317	44.01660	17.88245	0.2836787	3.0565039342480
(440230)	16.1	40.86094	281.21898	335.52407	24.75753	0.2339139	3.1250987342481
(440231)	16.3	303.55464	73.01088	308.52763	9.89412	0.0325039	3.1578872342481
(440232)	17.6	334.24260	174.00203	193.26215	5.70551	0.2522285	2.3683304342481
(440233)	15.8	229.68022	140.17944	317.78713	10.09881	0.0429641	3.1571797342481
(440234)	17.8	357.44178	342.40875	328.88225	3.22836	0.2210312	2.3798512342482
(440235)	15.2	328.21040	76.14072	290.50683	24.78421	0.2735008	3.1648099342482
(440236)	15.1	16.60525	51.30004	264.16757	22.03575	0.2463717	3.0842729342482
(440237)	17.4	331.70154	194.92257	153.14606	1.60796	0.1938886	2.3855374342482
(440238)	17.6	170.44646	322.20840	179.12010	18.89914	0.0394535	2.4023992342483
(440239)	15.3	316.25365	98.30546	298.49571	24.78860	0.2735908	3.1408610342483
(440240)	15.0	354.83800	34.71737	313.72497	26.60119	0.1424353	3.1395567342483
(440241)	16.5	353.27620	232.83465	126.28336	3.94409	0.1878080	3.0680518342484
(440242)	17.7	300.61818	59.12566	5.26166	5.89008	0.4196141	2.3804516342484
(440243)	17.0	285.94373	291.45752	85.34074	9.61925	0.3557266	2.4469389342484
(440244)	17.6	346.31231	323.24019	22.18609	2.93050	0.2021520	2.3736523342485
(440245)	17.8	291.61519	208.78831	183.19420	5.99458	0.2452663	2.4031526342485
(440246)	17.7	314.08700	42.28282	340.10735	8.70139	0.2179596	2.3784758342485
(440247)	17.6	312.47900	330.52871	33.81534	2.84090	0.1824794	2.3971366342486
(440248)	18.0	1.84135	311.51113	346.23855	2.64242	0.1777406	2.3967170342486
(440249)	17.9	319.03274	5.50863	6.07491	2.24472	0.2370393	2.3870219342486
(440250)	17.7	341.25369	174.90491	160.64254	2.78257	0.2189113	2.3866522342487
(440251)	15.6	13.20110	2.23812	318.05877	16.19384	0.1847489	3.1178311342487
(440252)	17.8	341.22236	182.47089	156.50119	2.58611	0.2293858	2.3837331342487
(440253)	15.9	359.69577	14.51825	351.53617	11.05126	0.1496490	3.0596582342487
(440254)	17.2	291.34046	238.60413	175.28479	8.44739	0.3195938	2.4053159342488
(440255)	18.3	344.93918	87.81543	226.00319	2.17758	0.2358465	2.3991443342488
(440256)	16.5	338.57970	324.89030	12.69203	5.63960	0.2025985	3.1711986342488
(440257)	17.7	304.04195	71.26811	309.65194	2.80145	0.1778875	2.4013015342489
(440258)	18.1	310.60494	19.91766	7.07239	2.98924	0.1871919	2.3846230342489
(440259)	18.0	283.65743	135.69582	261.26930	1.55803	0.1942644	2.4112778342489
(440260)	17.9	309.11510	110.53411	262.39668	2.15259	0.2104061	2.3951167342489
(440261)	17.4	305.82315	71.24674	324.37992	8.35029	0.2212442	2.3781964342490
(440262)	17.5	351.01063	25.52592	298.22071	4.43012	0.1945377	2.3866427342490
(440263)	17.5	4.66328	311.84653	332.94064	5.34577	0.2375468	2.4041427342490
(440264)	17.9	326.20200	136.91927	228.27297	1.70356	0.2528006	2.3873015342491
(440265)	15.6	306.60097	53.47619	337.00044	22.32158	0.1798191	3.1675188342491
(440266)	17.3	353.08552	317.98839	351.41450	7.48225	0.2489040	2.4013064342491
(440267)	15.9	331.53922	91.86941	281.49175	14.58709	0.2770329	3.1509083342492
(440268)	15.3	359.18367	69.01807	264.56463	14.84254	0.2357978	3.1173286342492
(440269)	16.2	101.49316	246.00775	333.15379	9.71224	0.0189659	3.1450957342492
(440270)	16.7	8.36444	125.51793	174.94058	9.54503	0.1189144	3.1668024342492
(440271)	16.1	339.32976	342.68546	351.95124	9.11152	0.0917611	3.1673330342493
(440272)	17.9	336.52018	92.98174	257.91752	6.51782	0.2729846	2.3742412342493
(440273)	17.5	307.24227	309.14331	86.67164	3.16990	0.2107794	2.3899893342493
(440274)	17.6	342.81770	215.36084	130.30314	3.39914	0.2047646	2.3857326342493
(440275)	17.7	306.76369	125.69247	261.95142	3.34739	0.2363802	2.3927096342494
(440276)	17.6	341.87510	119.02140	221.27222	4.39456	0.2298014	2.3916343342494
(440277)	16.0	338.15117	25.99145	322.17104	13.69746	0.0458529	3.1718975342494
(440278)	18.1	356.88925	211.27801	104.60272	1.99883	0.2421774	2.3827126342495
(440279)	16.0	339.63412	60.99272	291.49904	8.82608	0.1937941	3.1313161342495
(440280)	16.1	311.14372	60.34580	326.98524	14.81180	0.2399122	3.1722601342495
(440281)	15.7	311.69169	173.93048	223.68889	9.80325	0.2009143	3.1488697342496
(440282)	17.4	344.32268	24.13740	299.13373	6.15831	0.1559152	2.4109233342496
(440283)	17.2	348.77070	28.04317	311.48534	6.42568	0.1592446	2.3758771342496
(440284)	17.2	283.21170	156.40864	242.69315	4.35479	0.1857055	2.4125777342497
(440285)	15.9	338.48091	66.05491	305.60221	15.72733	0.2383663	3.1374963342497
(440286)	15.8	352.31045	34.86923	308.70042	12.00128	0.2420752	3.1282746342497
(440287)	16.0	320.65824	90.31638	315.09219	10.77030	0.2574310	3.1308147342497
(440288)	16.5	278.91633	122.91030	299.96240	10.77415	0.3881279	3.2603941342498
(440289)	16.7	289.53130	107.41404	344.80101	20.32166	0.3708232	3.2890160342498
(440290)	15.9	312.81309	62.06146	349.59998	20.60823	0.3379949	3.1816641342498
(440291)	17.2	1.08761	48.16389	257.12081	1.58078	0.2388397	2.4028549342499
(440292)	16.1	340.64470	18.22185	356.79056	7.68809	0.1629496	3.0894475342499
(440293)	17.7	288.15526	45.09479	346.39430	4.78194	0.1459502	2.4350283342499
(440294)	17.6	304.85515	355.14201	12.89015	6.41023	0.1506348	2.4330316342500
(440295)	15.9	314.52382	43.88454	339.90230	11.49177	0.2589757	3.1762615342500
(440296)	18.4	311.42141	229.84487	100.46861	1.66763	0.2267554	2.4269692342500
(440297)	15.5	316.05624	120.97620	257.41281	17.77867	0.1974272	3.1419833342500
(440298)	16.0	317.17623	65.66547	328.13233	10.80881	0.0864517	3.0988164342501
(440299)	16.5	292.79490	47.04355	350.97563	6.05843	0.1617455	3.1755145342501
(440300)	18.1	287.01787	9.42200	14.06148	2.33196	0.1421626	2.4196693342501
(440301)	18.0	281.77931	130.47086	265.12439	1.07012	0.2169742	2.4232765342501
(440302)	18.3	358.98273	176.52492	131.96436	3.11107	0.2433036	2.3876895342502
(440303)	17.4	340.22363	99.38524	243.16665	3.97434	0.2386725	2.3962246342502
(440304)	16.8	0.07703	66.55867	258.30081	5.42102	0.2269671	3.1275197342502
(440305)	17.6	292.20545	71.21954	322.51676	4.13210	0.2280077	2.4137917342502
(440306)	17.3	338.70827	115.74643	227.16144	5.57939	0.1510136	2.3928727342503
(440307)	16.3	330.15300	51.93053	325.03647	9.34158	0.2564386	3.1500126342503
(440308)	18.2	283.63619	220.70354	189.90950	2.31997	0.1734730	2.4205082342503
(440309)	16.5	358.74126	167.26993	168.14778	10.97268	0.2020894	3.0917319342504
(440310)	15.3	286.94861	86.68521	308.77712	14.40152	0.0604074	3.1633892342504
(440311)	17.5	46.68416	354.65542	272.46715	5.57978	0.1036330	2.3812563342504
(440312)	16.4	305.08966	83.45604	319.43374	8.45284	0.2320653	3.1596146342505
(440313)	17.5	340.36052	329.79963	15.30350	2.76592	0.2289850	2.3937779342505
(440314)	16.4	339.03966	344.35491	12.97041	8.06642	0.0563755	3.1916172342505
(440315)	16.3	327.71829	200.80699	167.75308	11.08107	0.2279528	3.1550494342505
(440316)	16.5	288.60633	46.63977	1.54744	5.13969	0.0925943	3.1916311342506
(440317)	18.2	346.51512	4.98334	325.16758	1.71074	0.2206952	2.4061585342506
(440318)	18.0	274.11906	206.62037	230.53018	4.00181	0.1535518	2.4028029342506
(440319)	15.6	341.31214	331.15694	25.71156	16.21882	0.1506810	3.1928669342506
(440320)	18.1	349.24996	354.00074	353.76499	1.13440	0.2034081	2.3911098342507
(440321)	17.2	310.24633	348.73229	24.85913	5.87471	0.1097938	2.4126583342507
(440322)	17.9	309.32401	85.40207	303.10971	1.03934	0.2292759	2.3953507342507
(440323)	16.1	304.38572	344.04687	46.19344	5.45920	0.2057162	3.2047993342507
(440324)	17.7	352.88376	309.18865	3.33578	6.34861	0.1683425	2.4293833342508
(440325)	17.9	297.81837	214.66281	182.37513	2.85802	0.1735314	2.4146003342508

(440326)	17.7	338.71923	148.00978	206.32245	1.35636	0.2112395	2.3829577342508
(440327)	17.5	315.64239	230.29649	153.25558	7.43804	0.2148524	2.3965501342508
(440328)	15.9	349.54546	50.64539	297.38114	13.25082	0.2966585	3.1562510342509
(440329)	17.7	327.74471	278.95428	78.07973	3.78673	0.2259096	2.4051206342509
(440330)	16.6	308.52533	10.13030	0.89906	8.51681	0.0939851	2.4208589342509
(440331)	17.6	321.41075	254.09499	99.20763	2.53971	0.2045799	2.4083531342510
(440332)	16.3	299.87102	255.65067	148.48369	8.21579	0.2744467	3.1892724342510
(440333)	17.7	337.89484	320.80238	29.26878	1.82898	0.2029820	2.3913769342510
(440334)	17.3	320.99440	312.21587	51.46629	6.78165	0.2767367	2.4027295342510
(440335)	17.8	314.91191	297.71307	78.30360	3.76022	0.2260810	2.4053374342511
(440336)	17.8	342.38421	191.93984	167.02033	1.40089	0.2104498	2.3936456342511
(440337)	15.5	357.54608	328.14198	12.43376	27.49925	0.1340884	3.1302114342511
(440338)	16.1	13.94242	313.77963	13.24116	11.12979	0.1301609	3.1400688342511
(440339)	17.9	309.93613	161.86562	211.45378	5.01434	0.2524435	2.4211052342512
(440340)	17.6	290.12340	197.75675	199.81077	4.60852	0.1078280	2.4270676342512
(440341)	18.1	343.69262	338.32334	4.84626	1.05883	0.2231934	2.3888996342512
(440342)	15.8	341.98028	131.52920	206.18874	16.45200	0.1799896	3.1960249342512
(440343)	17.5	300.72198	122.83737	283.29648	1.53991	0.1898893	2.3913046342513
(440344)	16.2	344.13357	319.24091	28.16306	9.31507	0.0985766	3.1745897342513
(440345)	18.2	280.42647	40.97581	359.57135	4.55359	0.1825563	2.4390688342513
(440346)	15.9	314.45149	3.97627	356.97316	7.34339	0.0643659	3.2504193342513
(440347)	17.5	294.04023	10.22674	9.47396	2.54822	0.1960704	2.4476354342513
(440348)	17.4	287.73899	175.01893	222.45801	5.24802	0.1136392	2.4474064342514
(440349)	15.5	358.23795	355.70306	35.26166	11.03063	0.0930595	3.1008619342514
(440350)	18.2	312.19938	156.95140	225.66000	5.99803	0.2399708	2.4217667342514
(440351)	16.9	318.12411	327.78914	34.28082	8.03829	0.2062584	2.4225086342514
(440352)	15.5	315.20156	122.88422	255.02664	12.25095	0.1661705	3.2099448342515
(440353)	16.8	303.51839	29.06525	9.37871	6.00716	0.2355385	3.2049724342515
(440354)	17.4	305.19620	340.48847	31.14497	2.98522	0.2243758	2.4433240342515
(440355)	18.3	299.47329	357.14569	26.66404	1.08392	0.1814232	2.4477120342515
(440356)	17.9	297.40350	27.41036	2.21169	2.65585	0.1765901	2.4323684342516
(440357)	16.2	303.90007	207.39862	223.96129	7.81151	0.1608807	3.1498124342516
(440358)	15.4	351.79076	9.67135	0.21254	17.46127	0.2148703	3.1424101342516
(440359)	15.9	292.34809	17.67711	44.04800	6.86330	0.1528396	3.2220177342516
(440360)	16.5	244.06111	246.01079	175.50122	13.85206	0.1251424	2.5153017342517
(440361)	15.9	88.33558	71.52885	108.23880	32.16383	0.1500306	2.6845108342517
(440362)	17.6	287.39278	353.06329	78.42257	2.76453	0.1543706	2.4310515342517
(440363)	15.4	12.50002	89.67296	248.24421	24.40913	0.2969292	3.1704414342517
(440364)	17.0	292.99755	97.97230	256.66446	2.54877	0.2308790	2.5364444342518
(440365)	16.5	325.15549	276.05123	83.75774	14.37839	0.1599230	2.4962731342518
(440366)	15.4	187.38310	168.81368	267.37772	33.60584	0.1913167	2.6093683342518
(440367)	16.3	253.91495	107.03316	243.13735	11.69265	0.1724382	2.5727568342519
(440368)	16.8	246.54650	152.30441	235.04557	8.22212	0.1221520	2.5454753342519
(440369)	17.2	212.21503	34.66032	70.23007	4.17077	0.1556832	2.5481070342519
(440370)	15.8	111.39291	239.44706	314.16527	29.92364	0.2270630	2.6613260342519
(440371)	16.6	251.25392	307.22338	91.33154	8.25285	0.3184034	2.5524642342520
(440372)	16.2	244.80454	68.23030	9.22203	14.28637	0.2831651	2.5319309342520
(440373)	17.3	217.27793	144.91806	308.33374	7.25858	0.1057939	2.5713320342521
(440374)	17.2	224.29956	63.43869	38.75230	4.81987	0.1785314	2.5405121342521
(440375)	16.8	245.39251	184.03706	253.48703	12.46712	0.1332938	2.5342428342521
(440376)	16.4	154.32255	1.31540	135.51524	15.07852	0.0787160	2.6347324342521
(440377)	17.0	126.95753	40.28770	118.71910	8.42415	0.1999026	2.6597182342521
(440378)	16.7	273.23308	263.47555	146.56896	28.28543	0.1784732	2.5537751342522
(440379)	16.6	151.09495	203.90317	321.91225	14.50804	0.0696231	2.6066330342522
(440380)	17.1	140.49845	185.44960	338.98738	14.11141	0.0693797	2.6285288342522
(440381)	16.5	337.87429	21.01062	347.68696	30.05687	0.1735045	2.5843220342522
(440382)	17.1	246.38929	92.87411	334.78225	13.55278	0.1439172	2.5872553342523
(440383)	16.7	55.41095	59.03333	185.62978	7.55086	0.1739901	2.7434502342523
(440384)	16.5	106.50093	176.54349	6.39591	13.80480	0.0673171	2.7108097342523
(440385)	16.5	45.08822	259.61565	9.14290	11.24659	0.1809126	2.6976609342524
(440386)	16.8	87.53475	143.81343	52.76334	5.52721	0.2408413	2.7369190342524
(440387)	18.4	53.71632	142.48062	94.26123	0.39321	0.1247130	2.1576863342524
(440388)	17.1	38.28788	240.50200	31.28432	8.00245	0.0707873	2.7201769342524
(440389)	16.8	117.78114	69.27200	97.25660	14.42220	0.2008563	2.7249411342525
(440390)	17.1	7.21067	166.58053	102.53922	6.60156	0.2255216	2.8470511342525
(440391)	17.1	296.71855	213.11531	204.45420	4.43038	0.2173817	2.5970385342525
(440392)	17.7	29.31072	272.86312	346.23447	14.22135	0.2978923	2.7381526342526
(440393)	17.1	90.30829	83.17589	108.09863	9.27985	0.3153198	2.7718004342526
(440394)	17.5	37.19371	72.93512	209.82930	1.82296	0.1575308	2.7504406342526
(440395)	17.1	81.46903	124.22928	105.20795	5.19799	0.1477338	2.7524822342526
(440396)	16.2	284.92606	109.20654	234.97377	8.58700	0.0618333	2.8802926342527
(440397)	17.1	114.94139	95.46079	99.99278	9.61710	0.1367268	2.7475068342527
(440398)	18.1	351.97425	178.66313	138.27272	7.55180	0.2027904	2.2216216342527
(440399)	16.8	59.16443	115.40907	126.43673	16.13053	0.2182380	2.8600501342527
(440400)	18.1	47.47970	323.27079	293.65022	5.95092	0.1478479	2.2070981342528
(440401)	18.1	1.65175	171.75361	147.92683	6.96252	0.2050599	2.2073294342528
(440402)	18.3	305.40814	187.63259	192.03928	1.03394	0.1732512	2.2158237342528
(440403)	18.3	340.92414	171.19630	176.57520	4.58540	0.2129458	2.2069137342528
(440404)	18.9	335.83974	131.67040	210.48647	2.33403	0.2226247	2.2215884342529
(440405)	16.6	344.29492	39.67358	286.63444	7.25720	0.0956717	2.8924217342529
(440406)	17.1	358.60482	267.02576	70.10281	8.18871	0.3621950	2.8850232342529
(440407)	17.5	329.30045	228.35324	143.21706	4.93394	0.1870172	2.2102597342529
(440408)	16.6	328.59595	108.61093	265.74281	11.17977	0.2564989	2.9054543342530
(440409)	17.9	259.48925	234.34020	145.26895	22.98968	0.0934955	1.8701664342530
(440410)	18.0	258.47166	358.02836	57.65289	2.58846	0.1651577	2.2831019342530
(440411)	16.4	359.99318	0.86057	315.35606	9.71924	0.1040729	2.9091842342531
(440412)	16.9	325.01972	52.66555	333.02345	11.64399	0.2979867	2.9207241342531
(440413)	16.4	333.98451	29.13865	332.00649	7.83361	0.1665283	2.9218483342531
(440414)	16.8	341.13701	29.78454	348.62436	12.52017	0.1372905	2.8701319342531
(440415)	16.0	349.11608	22.60695	349.68801	23.69389	0.2643107	2.8501260342532
(440416)	17.7	313.46394	204.25998	126.04121	4.50934	0.1851122	2.2793301342532
(440417)	17.6	282.65060	36.21863	5.50171	5.94562	0.1826841	2.2504210342532
(440418)	18.2	356.72940	85.63923	233.56820	2.40309	0.2007326	2.2353626342533
(440419)	17.8	348.99372	314.33398	26.38929	4.44287	0.1744714	2.2305532342533
(440420)	16.5	295.96844	226.95699	144.86353	8.72348	0.0739670	3.0154741342533
(440421)	17.3	319.05175	72.83257	299.28053	6.44668	0.2149424	2.2385942342533
(440422)	18.1	358.63706	141.00204	184.51682	7.53281	0.1876217	2.2290385342534
(440423)	16.6	250.65246	80.45023	341.80285	3.74801	0.1392925	3.0292485342534
(440424)	17.5	328.63594	92.04320	276.56601	4.63538	0.1995905	2.2341932342534
(440425)	17.5	295.87587	195.53502	194.71506	5.53194	0.2187285	2.2607354342535
(440426)	16.7	347.84540	353.11566	346.69342	3.29325	0.2479780	2.9879083342535
(440427)	16.5	294.22662	333.12364	64.36426	10.27283	0.0820827	3.0151013342535
(440428)	16.5	263.51231	189.34736	187.45304	4.63799	0.1609354	3.0984484342535
(440429)	17.0	336.13426	159.64028	203.02210	8.73642	0.1319836	2.9641865342536

(440430)	17.7	287.13254	163.29700	195.64648	5.11573	0.1875523	2.3144380342536
(440431)	16.7	290.48994	95.08892	291.34724	3.76854	0.1429708	3.0663345342536
(440432)	15.7	303.11023	219.60682	144.58289	25.31242	0.3165865	3.0811391342537
(440433)	18.1	324.88008	199.75747	145.37087	3.80304	0.1706041	2.2636877342537
(440434)	16.6	289.09990	259.36134	92.93227	3.07976	0.2314774	3.1079105342537
(440435)	17.9	280.81571	6.83508	24.41061	6.36308	0.1540245	2.2781075342537
(440436)	18.0	298.30260	238.64639	137.06046	2.15595	0.1647314	2.2772264342538
(440437)	17.1	323.91996	288.92199	87.08394	3.41642	0.1972806	2.9821785342538
(440438)	16.6	290.20655	180.98421	191.39860	9.78526	0.0823775	3.0768167342538
(440439)	16.2	284.86892	37.18213	13.65797	8.01262	0.1193319	3.0060544342538
(440440)	17.7	39.21221	285.25845	353.74278	6.63269	0.1214159	2.2561723342539
(440441)	18.1	304.71166	134.76441	207.93422	4.25952	0.2163940	2.3033764342539
(440442)	16.5	345.14920	307.37686	9.78107	10.75184	0.0985344	3.0680979342539
(440443)	16.2	209.51738	117.13712	5.26728	11.60801	0.0825174	3.0310380342539
(440444)	17.0	355.93304	104.53536	195.88128	3.65913	0.2786387	3.0303244342540
(440445)	16.9	321.96667	323.24426	25.29320	0.96847	0.1933787	3.0396230342540
(440446)	16.8	288.26416	155.77242	186.39633	11.40428	0.0796252	3.1496702342540
(440447)	18.2	271.59163	221.10877	184.68591	5.89263	0.0961291	2.2716093342541
(440448)	18.0	340.82381	330.41067	8.02767	5.53544	0.1820565	2.2470932342541
(440449)	17.2	350.83121	144.98666	187.32882	6.17991	0.1974869	2.9660316342541
(440450)	16.2	225.26515	110.56589	358.76234	10.42261	0.0774286	3.0275244342541
(440451)	16.2	322.89878	338.93740	16.70622	9.74440	0.0743336	3.0463229342542
(440452)	18.4	337.51327	133.28719	201.95223	3.80662	0.1612885	2.2668681342542
(440453)	16.2	317.24679	341.25344	20.38030	10.88676	0.1146515	3.0122606342542
(440454)	17.5	240.82965	190.71431	243.45933	6.01066	0.1420415	2.2992278342542
(440455)	16.5	318.48208	142.35743	211.13539	10.98016	0.0894587	3.0758990342543
(440456)	16.8	324.52319	278.18676	82.49393	2.13279	0.1551155	3.0158571342543
(440457)	16.6	312.82425	287.53546	75.18721	2.21636	0.1303015	3.0480510342543
(440458)	16.2	353.98454	318.11145	0.08337	9.79848	0.1175967	3.0398843342543
(440459)	15.9	278.03896	186.71309	166.32550	23.15595	0.0804843	3.1028568342544
(440460)	16.3	329.24306	130.57792	223.38700	9.99248	0.1158883	3.0021181342544
(440461)	17.9	353.47998	87.23831	245.54013	3.81928	0.1506658	2.2436239342544
(440462)	18.3	270.82606	49.77414	357.91520	10.45533	0.1025240	2.2801417342544
(440463)	18.3	2.78792	79.86789	216.41265	5.52383	0.1885909	2.2740716342545
(440464)	16.1	293.39855	33.81220	348.06857	9.40329	0.1210670	3.0026014342545
(440465)	18.2	17.80556	236.64129	36.15624	2.10675	0.1455454	2.2837892342545
(440466)	16.4	345.75025	337.56606	357.25922	15.51046	0.1025042	3.0030856342545
(440467)	16.8	316.04333	82.91108	303.75700	12.50451	0.2898537	3.0026172342546
(440468)	16.2	148.92420	312.78398	225.61517	12.09604	0.0599364	3.0310501342546
(440469)	17.4	29.48682	23.58027	249.04907	4.24414	0.1315805	2.2809954342546
(440470)	16.2	268.10825	210.82223	210.55927	17.07740	0.2188576	3.0564526342546
(440471)	18.2	0.74491	83.63166	203.22866	9.52587	0.1324700	2.3083080342547
(440472)	16.7	347.74554	17.43404	317.57878	2.52296	0.1713884	2.9668681342547
(440473)	18.1	271.74508	324.08348	86.00048	3.14790	0.1946616	2.2881047342547
(440474)	17.7	337.71570	199.15721	142.97979	3.42307	0.2070640	2.2593128342547
(440475)	17.1	319.89053	316.36157	66.64813	2.97998	0.0861414	2.9822887342548
(440476)	15.5	325.83361	354.09317	342.21483	19.98704	0.1135145	3.0652967342548
(440477)	16.4	267.42892	17.47272	63.80339	12.26061	0.0572664	2.9810800342548
(440478)	16.2	56.84759	121.79596	144.51543	12.72125	0.0628407	3.0497217342548
(440479)	18.2	267.50907	54.77054	4.27724	20.14342	0.1326823	1.8618205342549
(440480)	16.9	301.18814	182.99586	214.75347	7.24371	0.2431450	3.0031376342549
(440481)	18.1	354.20315	129.65198	180.10914	5.23139	0.1636575	2.2583017342549
(440482)	17.9	331.57506	302.51711	57.33631	0.99035	0.2539682	2.2358715342549
(440483)	17.4	316.63754	162.55402	184.64099	6.23291	0.1304278	2.2959741342550
(440484)	17.1	311.50743	164.81682	215.60413	5.31164	0.2264820	3.0264762342550
(440485)	17.8	244.94645	173.20656	213.83969	4.33481	0.1481578	2.3615802342550
(440486)	18.0	342.87306	33.76858	298.92014	2.30855	0.2550357	2.2569554342551
(440487)	17.0	314.38193	10.20017	0.57839	9.45849	0.1191354	3.0080690342551
(440488)	18.3	232.47309	98.23153	338.06666	3.32185	0.1294254	2.3083773342551
(440489)	17.3	341.60899	135.06868	204.15589	15.65615	0.2478444	2.9859332342551
(440490)	17.8	309.66912	282.62217	90.50966	4.16505	0.1849295	2.2685920342552
(440491)	17.1	5.40762	353.97966	307.79106	2.63047	0.2845096	3.0014339342552
(440492)	17.0	316.81288	153.01063	226.58682	2.11926	0.1501048	3.0122003342552
(440493)	17.8	11.88614	357.22163	281.49434	2.87955	0.1718369	2.2753358342553
(440494)	16.7	323.21057	353.31865	5.31596	10.38381	0.0966240	3.0133015342553
(440495)	16.6	315.93086	100.27323	207.42948	9.08347	0.0728792	3.1862880342553
(440496)	16.4	330.25704	93.68628	260.27626	8.03111	0.1528374	3.0016875342553
(440497)	18.5	304.45346	247.18932	117.29552	2.76004	0.1250771	2.2863474342554
(440498)	17.9	297.21366	317.59209	69.85204	4.40447	0.1622357	2.2710644342554
(440499)	16.6	256.35252	354.22269	84.18770	4.54064	0.0677731	3.0234421342554
(440500)	16.3	192.01363	248.93975	219.02668	10.32020	0.0270346	3.1389383342555
(440501)	17.6	209.87928	103.46172	18.23451	5.47139	0.1376037	2.2958327342555
(440502)	16.7	336.48082	175.57138	114.92081	2.23266	0.1582903	3.1280388342555
(440503)	16.4	99.27509	192.31732	35.00554	10.04542	0.0374023	3.0395265342555
(440504)	16.7	334.63114	71.24294	250.18800	4.18121	0.1738141	3.0942830342556
(440505)	17.2	331.16263	273.37773	89.61402	3.72154	0.2307060	2.9896351342556
(440506)	17.0	310.37256	172.35557	209.78704	12.82732	0.1227180	2.9880339342556
(440507)	16.7	323.51890	109.97566	229.53570	5.88531	0.1223534	3.1082345342556
(440508)	16.5	17.77614	70.23853	238.82491	1.51270	0.1782257	3.0090970342556
(440509)	16.8	352.53064	127.35673	212.09721	3.63394	0.2065796	2.9968570342557
(440510)	16.3	320.24901	159.18316	226.06713	11.18303	0.0833899	3.0298731342557
(440511)	17.6	283.50085	2.47066	50.79209	1.78967	0.2077243	3.0701365342557
(440512)	17.8	127.63136	124.00759	49.63504	7.84265	0.0864141	2.3485354342557
(440513)	17.0	254.14586	35.50938	30.20475	0.54904	0.1701430	3.1383728342558
(440514)	17.0	307.29548	313.23907	66.38845	1.67374	0.1818237	3.0823440342558
(440515)	18.7	287.67083	25.74283	21.68009	4.35487	0.2430225	2.2763769342558
(440516)	17.7	278.27170	45.49629	355.65212	5.56118	0.1607160	2.2943899342558
(440517)	16.6	323.28634	293.41896	55.02757	2.40265	0.0891660	3.1232336342559
(440518)	15.8	282.07364	158.34650	249.09104	8.58147	0.0618613	3.0433752342559
(440519)	16.9	305.55395	203.92540	210.75618	4.35606	0.3345657	2.9996010342559
(440520)	18.6	271.30137	11.86277	44.64607	1.18290	0.1939956	2.2872085342560
(440521)	16.7	340.37707	128.65666	209.23090	8.53881	0.1046856	3.0643122342560
(440522)	16.8	331.47575	304.36666	45.03428	10.52444	0.1141836	3.0519351342560
(440523)	17.6	343.46167	272.19384	55.69859	3.00982	0.1880807	2.2727746342560
(440524)	16.7	343.56835	343.83599	344.18150	6.28570	0.1189784	3.0819631342561
(440525)	17.7	255.16963	103.96016	317.53747	4.28747	0.1179036	2.3083809342561
(440526)	15.8	148.85208	282.71227	250.15009	9.75874	0.0772453	3.1247921342561
(440527)	16.9	269.52524	312.94170	99.43548	2.60463	0.1903584	3.1099949342562
(440528)	16.3	288.77334	333.84396	74.06828	10.54825	0.0584236	3.0633599342562
(440529)	16.5	286.17559	196.42083	204.81108	11.00985	0.2127414	3.0837766342562
(440530)	17.7	280.99230	269.87251	87.34157	3.27625	0.2353982	2.3364720342562
(440531)	18.1	294.49716	222.21608	164.88980	2.57344	0.2172830	2.2914465342562
(440532)	18.2	278.55627	14.39341	21.33175	2.08502	0.1410902	2.2983962342563
(440533)	17.0	276.00105	162.57419	236.11348	0.28389	0.1469122	3.1262476342563

(440534)	16.4	278.11483	22.22730	28.98786	12.00167	0.0737150	3.0262486342563
(440535)	16.5	300.71244	122.47963	255.35840	4.27826	0.1487860	3.0890033342564
(440536)	17.5	30.02843	53.04251	239.30167	5.49676	0.0777861	2.2922750342564
(440537)	17.6	148.10102	248.55085	232.68092	19.55732	0.0783481	1.9235641342564
(440538)	17.1	310.07560	150.09177	208.34946	0.56759	0.0923124	3.1043408342564
(440539)	17.0	320.96803	357.85654	8.29922	2.07101	0.1938569	3.0572356342565
(440540)	16.1	303.43102	152.52402	223.25302	12.80697	0.0547094	3.1336637342565
(440541)	16.3	264.53232	7.45008	59.43109	9.25108	0.1671070	3.1195119342565
(440542)	16.9	319.95983	172.24070	196.06432	4.98145	0.1844320	3.0125141342565
(440543)	16.6	353.42667	231.42288	72.93876	2.13808	0.1740917	3.1014832342566
(440544)	16.4	314.44658	108.38589	231.53160	16.40742	0.2569298	3.0958822342566
(440545)	16.6	229.82490	228.64691	240.11218	5.30841	0.0585264	3.0517512342566
(440546)	17.0	335.96202	83.99718	260.13679	4.61974	0.1483245	3.0430302342566
(440547)	16.7	352.14639	45.74276	296.56793	3.32241	0.1627217	2.9963610342567
(440548)	17.5	209.46312	338.00274	78.00891	7.02841	0.1025357	2.3971123342567
(440549)	16.7	341.75732	142.72707	209.44516	11.17217	0.1289023	3.0478249342567
(440550)	16.3	291.56888	345.03436	35.72085	5.72487	0.1684879	3.0804869342567
(440551)	16.5	14.81644	226.96138	70.76019	7.48100	0.0298398	3.1344914342568
(440552)	16.7	309.05315	155.68711	215.50958	5.12554	0.1688350	3.1188950342568
(440553)	16.3	293.82013	186.61098	228.42943	10.88002	0.2299114	3.0598324342568
(440554)	17.0	227.45740	318.77368	118.64859	2.03472	0.0658736	3.1532689342568
(440555)	16.6	259.41700	2.59605	56.08295	0.74910	0.1896275	3.1056936342569
(440556)	17.1	232.65126	343.88845	109.25936	2.58012	0.1806122	3.1517234342569
(440557)	18.1	309.17443	344.10697	36.40104	2.26443	0.2191501	2.2705324342569
(440558)	16.9	268.87789	202.64854	212.03863	0.43137	0.1662058	3.1244408342569
(440559)	16.1	337.48046	271.71359	53.67362	10.87322	0.1005136	3.1456871342569
(440560)	17.2	242.17035	344.22221	94.04103	2.17428	0.1539574	3.0992081342570
(440561)	18.1	294.35593	280.28143	75.57189	3.23740	0.2264723	2.3194035342570
(440562)	16.7	286.57067	327.49531	60.62372	3.49487	0.1334233	3.0622890342570
(440563)	18.0	355.17594	332.03944	5.42422	3.40925	0.1863901	2.2700769342570
(440564)	17.3	292.31120	272.25621	115.70912	2.26904	0.1974550	3.1059464342571
(440565)	16.3	328.93691	280.59770	69.60985	11.49378	0.0915255	3.0935260342571
(440566)	16.6	345.83078	344.99831	354.65565	2.64077	0.2878571	2.9939918342571
(440567)	17.5	280.79025	109.74875	261.94241	5.83938	0.2464550	2.3297141342571
(440568)	16.7	79.63868	217.70614	36.61846	12.44672	0.0582189	3.0186162342572
(440569)	17.7	340.13035	263.43191	74.01910	7.34160	0.1855345	2.2758360342572
(440570)	16.4	322.69666	56.27712	291.69904	3.78536	0.1359295	3.0895348342572
(440571)	18.2	304.82621	36.98696	342.58549	5.00945	0.2409001	2.2781104342573
(440572)	16.8	265.80120	299.23152	113.35554	2.27682	0.1890165	3.0991963342573
(440573)	18.6	281.52073	284.32906	118.80680	2.03373	0.1029761	2.2789672342573
(440574)	16.4	277.36670	197.65136	221.62836	10.56305	0.0609053	3.0482594342573
(440575)	17.0	348.23485	107.64039	231.37836	2.66911	0.1779709	3.0109171342573
(440576)	18.0	338.83803	307.21903	26.25406	5.02983	0.2419791	2.2814964342574
(440577)	15.7	281.68457	176.83007	243.42877	10.23616	0.0943165	3.0203910342574
(440578)	17.7	292.91994	10.33852	20.92220	7.54578	0.1220216	2.2937395342574
(440579)	16.7	339.87545	335.50585	14.56720	6.73929	0.1961996	3.0338138342574
(440580)	17.8	296.69528	139.06494	251.52616	6.41304	0.1463315	2.2969654342575
(440581)	15.7	251.09205	126.32109	295.95517	7.90808	0.1019908	3.1041779342575
(440582)	16.5	283.52527	270.40717	135.77351	8.27754	0.2266990	3.0606448342575
(440583)	16.5	323.33296	125.39208	244.62086	10.60901	0.1400583	3.0139181342576
(440584)	16.2	257.12323	345.45297	97.81645	13.23402	0.2418707	3.1011819342576
(440585)	16.4	307.54497	252.49129	135.80666	11.81148	0.2585757	3.0438457342576
(440586)	17.5	334.56675	191.47138	137.10016	6.66904	0.2345432	2.2834786342576
(440587)	16.5	303.69092	274.22735	109.02160	2.73416	0.1151128	3.1168646342577
(440588)	16.1	8.11538	65.07662	249.67427	10.96042	0.0683793	3.1235610342577
(440589)	16.8	301.57217	237.42523	172.57603	9.39970	0.2235255	2.9825031342577
(440590)	16.8	307.29064	175.79334	182.12372	8.62748	0.1081582	3.0604301342577
(440591)	16.7	310.02400	325.44815	54.55535	11.33238	0.1561520	3.0704815342577
(440592)	16.9	341.17544	284.54379	56.66105	23.17863	0.2306781	3.0402462342578
(440593)	17.7	138.64652	130.14766	54.03794	9.49234	0.0517527	2.3287261342578
(440594)	16.3	265.36354	218.86690	241.03658	9.26407	0.0735107	3.0039030342578
(440595)	17.2	349.95358	130.74231	218.09206	1.34856	0.1245516	2.9953364342578
(440596)	16.5	269.27155	326.55366	90.19572	5.08371	0.2100556	3.1172190342579
(440597)	17.7	11.07086	21.63086	265.01883	4.99679	0.1293207	2.3050299342579
(440598)	17.1	324.62017	122.29090	230.95164	5.92792	0.1875902	3.1025612342579
(440599)	16.5	336.41477	290.62384	71.80073	6.72818	0.0997664	3.0661150342579
(440600)	18.2	262.06859	195.57478	221.09511	3.60759	0.2085273	2.3191334342580
(440601)	17.8	206.61630	32.65060	68.54099	5.61021	0.1744640	2.3599177342580
(440602)	16.3	349.39167	242.59866	66.33282	12.05021	0.0899672	3.1574284342580
(440603)	18.4	344.86136	95.27156	223.75685	6.74033	0.1855458	2.2614547342580
(440604)	17.5	84.97735	145.29708	56.67663	7.70870	0.0740215	2.3522557342581
(440605)	16.5	327.49963	103.11769	238.17131	9.90418	0.0847880	3.1329328342581
(440606)	16.2	321.95388	306.72321	79.36017	4.50099	0.2189467	3.0224478342581
(440607)	17.6	322.20818	289.02335	72.22847	6.59918	0.1826613	2.2638753342581
(440608)	17.1	304.09036	264.42993	105.87131	2.17572	0.2284751	3.0749024342582
(440609)	18.1	245.42767	338.64214	96.23282	3.06654	0.1966897	2.3286235342582
(440610)	15.7	50.18976	237.44344	19.69723	14.30246	0.1039158	3.0982256342582
(440611)	15.5	270.66485	170.41482	243.97139	16.75083	0.1782079	3.1292126342582
(440612)	18.0	228.02188	209.80606	243.25740	6.26962	0.0886867	2.3289210342583
(440613)	18.0	316.95469	118.50996	246.13429	3.49810	0.1834975	2.2852351342583
(440614)	16.7	284.95016	6.85545	32.75852	1.20430	0.1784089	3.1054321342583
(440615)	15.9	290.58435	275.85570	138.17015	12.26055	0.1849798	3.0620490342584
(440616)	18.0	0.33025	122.53650	176.43778	7.11407	0.1499071	2.2785165342584
(440617)	15.8	266.23017	82.71688	12.79529	23.66314	0.2942429	3.0969776342584
(440618)	16.3	236.27614	330.25197	117.04804	5.42456	0.2568154	3.1855311342584
(440619)	17.9	279.34682	165.32915	243.10668	5.81540	0.2208305	2.2992449342585
(440620)	15.9	307.47270	331.17045	63.20235	14.09432	0.2008740	3.0498753342585
(440621)	18.0	295.69381	93.67246	245.60112	5.03016	0.2279733	2.3545207342585
(440622)	16.0	98.65662	340.98591	253.71178	10.68426	0.0820460	3.1179177342586
(440623)	18.4	343.03949	318.32417	40.54337	2.57934	0.2929589	2.2491357342586
(440624)	15.8	329.16262	104.53345	269.01935	9.22167	0.1510664	3.0777177342586
(440625)	17.1	283.93505	330.18558	67.27210	10.27141	0.1914161	2.3178722342586
(440626)	18.3	289.62073	174.92929	209.08721	1.63214	0.2008337	2.3193208342587
(440627)	16.5	324.44695	290.69394	65.67167	10.48880	0.1082373	3.1313395342587
(440628)	15.6	357.92777	252.23720	71.87533	11.19807	0.1324489	3.1396179342587
(440629)	18.2	278.94496	129.40582	271.15530	1.41788	0.2140931	2.3177623342587
(440630)	15.5	273.07583	332.18797	93.82336	19.07299	0.1883120	3.1018915342588
(440631)	16.7	251.11399	180.15065	258.23728	23.44251	0.1734584	2.2678350342588
(440632)	16.5	288.27295	320.35677	79.12423	3.99821	0.0960763	3.1444367342588
(440633)	18.1	325.32787	58.28067	302.15839	3.81121	0.3000004	2.2680914342589
(440634)	15.9	287.50291	151.77328	272.19551	9.12137	0.1809049	3.0594661342589
(440635)	15.1	276.86642	164.72981	253.93156	16.24160	0.1089734	3.1096252342589
(440636)	18.1	266.66933	10.80293	33.34382	5.52748	0.1251456	2.3206326342590
(440637)	17.9	336.22868	128.93333	218.15787	2.66262	0.2282300	2.2690653342590

(440638)	18.0	241.05177	66.74337	32.55170	1.74261	0.2014167	2.3057588342590
(440639)	15.7	292.98858	124.82397	273.40402	25.71332	0.1599571	3.1720932342590
(440640)	16.2	313.40528	135.85145	267.31065	6.92366	0.4527528	3.0018131342591
(440641)	17.0	311.99399	167.35443	217.67662	4.87291	0.1604706	3.0463849342592
(440642)	16.0	306.69799	311.23846	80.56880	10.27882	0.1171410	3.0737504342592
(440643)	18.3	252.19298	343.67604	77.61671	2.71619	0.1637554	2.3257839342592
(440644)	16.2	327.46689	284.45705	85.62224	11.76769	0.0830410	3.1008621342592
(440645)	17.7	275.65953	49.94402	350.86124	6.51834	0.1673611	2.3132734342592
(440646)	17.3	265.98839	184.58622	226.33391	0.93935	0.1815579	3.1466033342593
(440647)	16.4	1.43484	61.05891	256.16046	6.52725	0.1748001	3.1182944342593
(440648)	18.0	284.46319	300.24304	63.12319	4.37344	0.0369215	2.3873745342593
(440649)	17.5	341.65603	252.54902	86.97969	2.59002	0.2493800	3.0440974342593
(440650)	16.5	295.63495	0.18230	92.33204	11.56583	0.1178186	3.0191565342594
(440651)	17.8	314.51937	77.57403	284.05866	6.12950	0.1217624	2.3449183342594
(440652)	15.4	341.07148	244.18003	90.58696	28.18770	0.2887121	3.1588812342594
(440653)	17.5	264.52569	341.87513	82.53586	8.75938	0.1144385	2.3342269342594
(440654)	15.2	221.32517	209.08043	271.62033	25.04209	0.1374186	3.1829366342595
(440655)	15.6	355.60451	62.74658	258.64535	25.64737	0.1346838	3.1486087342595
(440656)	16.1	214.60499	37.75142	83.25323	11.17438	0.0778928	3.1667323342595
(440657)	16.0	13.47199	70.54901	253.80881	8.07273	0.0613392	3.0819221342595
(440658)	16.1	334.13605	267.91495	96.54389	15.79811	0.0302669	3.1389413342596
(440659)	17.3	304.47218	139.53996	265.97447	2.01136	0.1206485	3.0166048342596
(440660)	17.6	305.25748	239.63277	155.22954	5.27155	0.1992207	2.2758189342596
(440661)	17.1	301.65944	125.79115	242.40451	5.36172	0.1601561	3.1941456342596
(440662)	17.8	282.53947	322.21746	67.04172	3.83886	0.1520049	2.3460485342596
(440663)	16.6	334.25853	110.13603	258.28092	4.39512	0.2461556	3.0317344342597
(440664)	18.4	237.21001	268.02007	167.91643	1.08281	0.1525106	2.3238025342597
(440665)	16.4	336.09593	302.71698	56.36508	3.81885	0.0574235	3.1239776342597
(440666)	17.3	162.90596	222.69502	271.66000	6.25517	0.0437099	2.3842715342597
(440667)	16.3	291.72343	320.60597	62.34119	5.69481	0.1443225	3.1721077342598
(440668)	16.1	339.34095	242.91372	85.26226	15.59826	0.2009493	3.1967491342598
(440669)	16.8	317.81987	322.07214	61.66967	10.33910	0.1032669	3.0731364342598
(440670)	17.8	298.54157	128.18661	282.41173	3.41680	0.2305338	2.2941840342598
(440671)	18.4	283.05203	138.39903	270.84353	1.52668	0.1966842	2.3327554342599
(440672)	18.1	126.29824	133.20405	51.71137	6.89462	0.0266812	2.3460170342599
(440673)	16.3	127.90392	295.23238	266.79855	6.58399	0.1256426	3.2038165342599
(440674)	17.1	59.64500	173.48698	83.16652	8.33053	0.0851532	2.3495081342599
(440675)	17.1	65.65132	67.99714	97.00956	5.05658	0.1658241	2.5686195342599
(440676)	17.5	205.14812	154.52450	301.11854	5.68002	0.0904593	2.4090383342600
(440677)	16.3	222.62452	357.24810	111.10719	6.73259	0.0986043	3.2517433342600
(440678)	16.5	260.25703	151.26745	287.59189	18.80855	0.1193301	3.2055578342600
(440679)	17.3	279.02161	101.35977	297.00011	11.38095	0.1664146	2.3604592342600
(440680)	17.7	329.45383	207.10866	189.30828	23.16524	0.5372624	2.8961959342601
(440681)	15.3	292.52306	115.21474	275.01150	25.35448	0.1992599	3.1291743342601
(440682)	17.4	269.76466	129.33793	304.96943	4.00599	0.2098446	2.3204145342601
(440683)	17.7	318.75876	101.22991	286.33182	19.42119	0.1088684	1.8699739342602
(440684)	15.9	299.75308	316.38865	101.16665	9.46654	0.2319066	3.0861532342602
(440685)	16.6	323.33915	324.03180	50.73504	1.49645	0.1845730	3.1424663342602
(440686)	16.6	297.57404	315.81920	76.63835	2.64658	0.1806926	3.1738320342602
(440687)	18.1	260.10256	112.59227	293.53987	6.04747	0.1264778	2.3727932342603
(440688)	18.6	268.19000	338.76643	81.61766	2.51217	0.1767118	2.3387527342603
(440689)	15.7	352.74137	294.54784	98.61491	10.84652	0.0805131	3.0264976342603
(440690)	18.4	234.99637	7.82837	68.17212	2.51260	0.1609315	2.3674254342603
(440691)	17.2	297.58432	260.20786	84.89301	6.89357	0.1748018	2.3952744342604
(440692)	16.3	306.84651	104.47203	297.75068	6.76432	0.1836586	3.1072132342604
(440693)	16.5	262.17786	326.34260	109.62598	6.91753	0.1116838	3.1950024342604
(440694)	17.0	7.66807	33.51302	280.61636	5.77500	0.1179812	2.3693641342604
(440695)	17.4	320.11759	230.62344	124.42012	7.27237	0.1419741	2.3640540342605
(440696)	17.5	150.02448	228.81133	288.95531	17.20897	0.0605050	1.9217994342605
(440697)	17.6	248.79429	137.55657	324.17503	5.33276	0.1597272	2.3231406342605
(440698)	17.5	164.56002	205.87706	305.91692	17.82151	0.0706662	1.9268288342605
(440699)	16.5	270.79411	131.97652	313.17497	9.17221	0.1820203	3.1521473342606
(440700)	16.8	301.47588	102.80503	283.98408	14.06718	0.2678202	3.1606125342606
(440701)	16.1	306.71091	101.68223	302.63040	15.26819	0.2344253	3.1077703342606
(440702)	18.4	288.58564	31.70159	10.07344	2.68352	0.1587091	2.3297116342607
(440703)	17.3	312.15401	256.99788	120.02192	5.24220	0.1727648	2.3459760342607
(440704)	16.2	305.91882	292.03631	100.11640	15.70174	0.1938118	3.1588186342607
(440705)	15.6	341.13865	259.43495	97.51104	14.04408	0.0950269	3.2005310342608
(440706)	18.0	287.93888	184.60797	223.50627	1.95527	0.2053522	2.3159576342608
(440707)	17.7	222.11699	121.87875	327.14611	6.95347	0.2020277	2.3738252342608
(440708)	16.3	299.90956	291.75830	100.82785	5.20398	0.1641799	3.1975383342608
(440709)	17.7	322.67884	266.89017	99.94065	4.83825	0.2158928	2.3252518342609
(440710)	17.8	291.10832	292.57743	107.72871	7.45126	0.2090654	2.3231314342609
(440711)	16.4	285.81741	304.60839	116.78908	28.23106	0.1643387	3.1512617342609
(440712)	18.0	224.36684	352.52202	110.54584	3.70453	0.1709077	2.3667669342609
(440713)	17.5	315.29469	253.38233	111.04223	4.58590	0.1671172	2.3604859342609
(440714)	16.9	272.19684	29.83357	17.55171	0.18441	0.1683715	3.2148244342610
(440715)	17.5	185.70368	210.88501	302.71628	4.24581	0.1731508	2.3653479342610
(440716)	18.2	226.67339	62.92206	24.00704	2.06212	0.1419200	2.3937735342610
(440717)	15.7	232.74136	185.49005	289.82778	15.79715	0.1538683	3.1617779342610
(440718)	15.9	274.04211	126.67037	311.91386	14.64658	0.2117163	3.2003222342611
(440719)	15.9	292.21235	295.25978	122.68762	13.99569	0.1332030	3.1918096342611
(440720)	17.7	319.46639	283.81407	103.40775	6.88903	0.2110129	2.2916961342611
(440721)	18.1	275.40557	285.88904	142.46896	4.85582	0.1790386	2.3270434342611
(440722)	17.4	39.42008	123.87991	116.85667	10.92685	0.1127827	2.4824108342612
(440723)	17.7	261.21622	111.55116	296.29907	5.50303	0.0965562	2.3945271342612
(440724)	17.6	326.82599	253.16258	105.57891	5.34175	0.2552170	2.3282616342612
(440725)	16.4	239.34616	152.09132	306.75452	24.13770	0.1788597	2.3654481342612
(440726)	15.9	317.50240	89.43592	301.06845	11.83746	0.1734150	3.1160390342613
(440727)	18.0	303.51312	120.27259	275.91855	7.43016	0.1880237	2.3215918342613
(440728)	18.3	296.90762	106.56831	302.36731	4.49342	0.1742909	2.3098555342613
(440729)	15.8	292.70695	59.04278	308.09500	18.48776	0.0192749	3.4371886342613
(440730)	17.7	314.01533	94.62515	285.69779	5.99808	0.1527471	2.3291898342614
(440731)	15.6	246.68482	238.01420	274.50693	9.26584	0.0975151	3.0684651342614
(440732)	17.8	4.81667	351.50106	310.73458	18.38754	0.0477380	1.9373100342614
(440733)	15.7	353.41453	42.60942	314.28363	14.99443	0.1405155	3.1869239342614
(440734)	17.3	186.42413	184.78767	311.64593	6.46070	0.0625099	2.3927958342615
(440735)	18.0	254.97067	87.23014	311.83019	17.29851	0.1050289	1.9348245342615
(440736)	17.5	264.16701	76.13118	322.20548	6.63561	0.0901641	2.4231514342615
(440737)	17.4	335.51935	29.92708	308.27198	7.48341	0.0453530	2.4087021342615
(440738)	17.4	0.98620	262.04753	49.76999	2.82268	0.2064191	2.3909672342616
(440739)	17.1	301.61540	254.95979	129.32776	8.37347	0.1098030	2.3821272342616
(440740)	17.6	276.92742	250.58333	163.45400	6.49924	0.1005161	2.3920398342616
(440741)	16.3	319.09089	290.26577	113.17670	2.69214	0.1768840	3.1516505342616

(440742)	17.5	271.08476	97.55376	328.34437	8.89040	0.1347444	2.3535565342617
(440743)	17.5	316.23356	36.32906	332.35433	5.87915	0.1098174	2.3926622342617
(440744)	17.3	71.31464	235.54530	354.47813	4.16793	0.1600005	2.4724391342617
(440745)	16.2	300.34993	268.87252	147.11445	16.29309	0.2733034	3.1607910342617
(440746)	17.4	75.50774	264.88815	334.29132	14.17866	0.0724185	2.4558183342618
(440747)	17.5	174.80723	145.73655	351.96795	18.82166	0.0816700	1.9454283342618
(440748)	17.7	49.47112	305.67023	339.20446	19.78323	0.0356874	1.9334379342618
(440749)	18.2	72.51171	70.03658	146.25859	1.12550	0.1222558	2.5265515342618
(440750)	16.8	101.96600	313.38117	167.87984	13.26629	0.1679249	2.6298874342619
(440751)	18.0	273.11248	253.69678	167.31716	22.72333	0.0958441	1.9265093342619
(440752)	17.4	205.43419	127.36454	345.95748	20.99491	0.0482389	1.9444336342619
(440753)	16.1	316.46146	262.30720	171.40068	19.51334	0.4156080	3.0596550342619
(440754)	17.8	119.71833	193.54814	332.94778	2.72721	0.1223594	2.5345276342620
(440755)	17.4	44.10000	98.53632	157.48908	13.80701	0.1394425	2.5334714342620
(440756)	18.1	276.60931	38.96387	5.41088	19.94678	0.0994448	1.9513736342620
(440757)	17.8	37.50965	100.50964	100.34897	0.71727	0.1025733	2.6320628342620
(440758)	17.4	26.88490	207.22371	49.36670	2.91223	0.1060149	2.5617380342620
(440759)	18.0	256.25445	81.84651	335.45759	18.49523	0.1057456	1.9244555342621
(440760)	16.4	43.03351	265.58055	347.87760	26.81300	0.3968164	2.6014819342621
(440761)	17.7	42.43022	245.96968	6.47278	6.50667	0.1524048	2.5334985342621
(440762)	16.9	353.31331	148.78332	172.97741	7.03436	0.1135180	2.4762153342622
(440763)	17.2	20.35933	227.75118	31.29443	4.86760	0.1499365	2.6309112342622
(440764)	17.4	3.66348	67.31079	194.39893	14.47385	0.1840465	2.6540480342622
(440765)	17.7	325.66955	226.05463	168.04407	23.68980	0.0842415	1.9180287342622
(440766)	17.6	111.97390	57.50265	129.74319	5.03810	0.0838294	2.5271348342623
(440767)	17.7	222.01820	1.89801	102.96500	2.22910	0.1402984	2.4690649342623
(440768)	17.6	66.16557	268.92556	323.73653	1.44313	0.0954358	2.5366913342623
(440769)	16.8	194.59564	271.94721	204.76298	6.36216	0.0518023	2.5396247342623
(440770)	17.0	51.09042	107.78217	155.70549	14.70752	0.0955749	2.5849252342624
(440771)	16.8	115.82722	27.50464	150.97327	14.43332	0.0735437	2.6063615342624
(440772)	17.0	18.41017	213.77917	72.41788	7.78374	0.0646540	2.5650089342624
(440773)	17.5	95.65602	125.62492	82.41108	5.23908	0.2058736	2.5572904342624
(440774)	16.6	48.32143	118.77178	130.12991	31.07115	0.3014691	2.5990836342625
(440775)	16.6	16.02675	143.36222	152.16208	13.97942	0.1895336	2.6173408342625
(440776)	17.2	21.92146	159.71280	126.16188	4.64548	0.1533981	2.6070179342625
(440777)	17.4	186.10884	99.15189	28.00469	3.23318	0.0791216	2.5342305342625
(440778)	17.6	60.86715	176.74156	65.33399	4.18651	0.1162231	2.5788347342626
(440779)	16.7	353.86745	42.23429	234.69434	12.82873	0.2427541	2.6801363342626
(440780)	17.7	13.35217	128.65647	144.84195	2.43415	0.1547777	2.6507530342626
(440781)	17.2	341.94398	149.76249	153.06449	14.20892	0.2581224	2.6651937342626
(440782)	17.2	74.68512	68.22809	133.80166	12.90467	0.1982581	2.6084777342627
(440783)	17.2	357.00271	204.42742	123.41800	14.51659	0.1708222	2.5561156342627
(440784)	17.5	16.69065	169.94070	169.39807	5.57111	0.3086353	2.5529743342627
(440785)	16.3	188.52818	317.32971	116.67141	13.28246	0.1499228	2.6913984342627
(440786)	16.0	342.88185	187.69692	126.10943	15.43107	0.1793993	2.6200758342627
(440787)	17.2	171.81665	43.23086	70.92424	2.77919	0.0434311	2.6133179342628
(440788)	17.7	353.38210	147.79614	169.26932	2.84797	0.1875774	2.6155310342628
(440789)	17.5	356.11487	79.29208	227.28797	15.36763	0.1776110	2.6310427342628
(440790)	17.3	11.62019	64.56696	215.51261	12.84661	0.2375283	2.6649118342629
(440791)	16.7	302.34820	263.84006	115.90407	13.70704	0.1186935	2.6860750342629
(440792)	16.8	32.85043	344.37904	287.87102	13.18332	0.2332857	2.6705581342629
(440793)	16.9	333.69054	71.70068	264.42818	7.86354	0.2732795	2.7418237342629
(440794)	16.8	354.19666	27.09003	308.12335	7.42879	0.3167535	2.6979673342630
(440795)	17.0	338.33948	36.94913	327.83931	8.90759	0.2697189	2.7156010342630
(440796)	16.9	330.67152	178.83890	176.21274	14.23436	0.2026487	2.7905756342630
(440797)	16.0	328.30672	21.08921	329.95337	26.23272	0.2084238	2.7229164342631
(440798)	16.9	37.20552	288.39069	345.94582	12.18224	0.2515366	2.6713788342631
(440799)	19.9	358.78037	173.34768	134.73245	4.45972	0.2898209	2.0715197342631
(440800)	16.5	312.67988	268.49699	131.73972	13.65603	0.2873522	2.7104959342631
(440801)	17.0	24.95741	340.99980	305.83431	9.29841	0.1716541	2.6836790342632
(440802)	16.9	343.05494	53.14758	280.73942	17.04271	0.3421694	2.7399379342632
(440803)	17.2	283.89996	29.63495	10.04391	6.80286	0.1062066	2.7906933342632
(440804)	17.4	327.65313	144.67674	204.99346	2.86027	0.2068254	2.7366617342632
(440805)	17.2	347.09346	71.53945	256.46060	2.22294	0.1989269	2.7417416342633
(440806)	17.5	307.78032	54.70499	338.33066	7.37722	0.2842025	2.7414994342633
(440807)	15.7	346.56777	24.32447	326.59437	9.29307	0.2596398	2.7307154342633
(440808)	17.0	343.23877	166.02760	155.04811	10.04637	0.2198539	2.7748690342634
(440809)	17.3	323.74434	56.79586	319.23785	2.32547	0.2152053	2.7194577342634
(440810)	16.6	312.53408	148.71748	203.79609	7.31565	0.3229895	2.7996632342634
(440811)	17.1	350.49195	188.52616	130.98066	4.71939	0.2279071	2.7649911342635
(440812)	17.7	325.54183	94.33691	279.70251	2.57199	0.3491170	2.7410154342635
(440813)	16.2	332.28060	49.44621	309.95719	12.72992	0.2172929	2.7363822342635
(440814)	17.2	312.08015	73.41180	316.64583	6.58439	0.3539341	2.7701921342636
(440815)	17.0	342.25776	27.40070	310.79125	11.49506	0.2045480	2.7320757342636
(440816)	16.6	2.03193	325.12756	358.44684	9.18659	0.2936772	2.7421654342636
(440817)	17.0	308.89074	25.79321	357.40880	12.02366	0.1054299	2.7543304342637
(440818)	17.2	286.71508	42.47028	348.21859	4.40237	0.1061770	2.7669219342637
(440819)	17.5	300.16498	73.59332	296.54665	1.96903	0.1025376	2.7803728342637
(440820)	16.3	17.94194	313.08939	8.02148	13.70686	0.2151118	2.7162580342637
(440821)	16.6	307.58923	45.92349	351.67875	7.60022	0.2355036	2.7461600342638
(440822)	17.5	330.47324	140.47445	219.74460	7.19213	0.3104744	2.7438665342638
(440823)	17.0	310.90976	16.83667	2.88300	9.55370	0.2321256	2.7663208342638
(440824)	16.6	336.82458	45.80778	347.89839	12.68626	0.2682685	2.6894975342638
(440825)	16.2	350.52156	358.63912	20.07679	10.83697	0.1710079	2.6938734342639
(440826)	16.3	330.08418	72.18341	310.49418	10.57019	0.1568028	2.7257592342639
(440827)	17.1	322.43047	1.62918	23.03222	8.46103	0.3260307	2.7515875342639
(440828)	16.1	190.43951	223.96195	187.46211	22.67894	0.1362529	3.0839230342640
(440829)	17.6	320.66724	333.65690	28.24687	4.63457	0.1178646	2.8021977342640
(440830)	17.0	299.52785	10.60196	7.91382	4.47775	0.2124795	2.7902936342640
(440831)	16.3	43.45982	264.08517	359.39974	9.02363	0.0895454	2.7974061342641
(440832)	16.6	347.08551	336.57972	9.55096	9.48798	0.1518784	2.7472978342641
(440833)	17.1	266.51761	197.51471	201.54915	1.51726	0.0686380	2.8682041342641
(440834)	16.8	320.90614	15.79112	340.67537	8.33692	0.0696444	2.7726938342641
(440835)	16.9	324.14288	20.08047	346.50880	10.87163	0.2834368	2.7540980342642
(440836)	17.3	268.96772	72.44598	342.11847	4.68802	0.2588550	2.8471630342642
(440837)	16.7	317.90115	141.23954	245.56344	1.54206	0.2111810	2.7530915342642
(440838)	16.4	283.67413	67.74983	359.55050	11.79500	0.2470230	2.8026705342643
(440839)	16.7	275.52054	148.19780	270.68625	10.09798	0.1501765	2.7353045342643
(440840)	17.0	307.03096	89.29499	294.94061	7.93327	0.2510066	2.7600749342643
(440841)	16.5	0.21966	78.41621	254.73439	10.92328	0.2364741	2.7318840342643
(440842)	16.7	313.36744	8.91638	18.56416	9.71709	0.1683446	2.7664142342644
(440843)	17.3	327.37926	139.02848	192.35432	1.89775	0.0382875	2.8542073342644
(440844)	16.1	344.01990	30.02171	313.70594	17.03758	0.2998762	2.7518575342644
(440845)	17.1	315.94863	189.05130	153.37429	2.43559	0.0841580	2.8933440342644

(440846)	17.2	310.38520	4.32247	0.07313	4.19477	0.0851905	2.7918250342645
(440847)	17.0	328.86621	61.10764	305.73588	6.96631	0.2700566	2.7600758342645
(440848)	16.8	277.20391	209.58801	161.89032	13.53944	0.1987833	2.9142340342645
(440849)	16.8	316.05739	147.48007	225.16576	11.02219	0.1155867	2.7528454342646
(440850)	17.0	332.70407	316.31312	40.41173	6.58685	0.0546510	2.8088929342646
(440851)	17.6	326.90333	20.28216	336.18060	3.17594	0.1324095	2.7853379342646
(440852)	17.4	291.01440	179.88052	216.75684	4.38998	0.0865624	2.7643013342646
(440853)	17.1	6.85449	199.63137	134.57000	3.79895	0.1018849	2.7304618342646
(440854)	16.4	359.25479	68.64341	284.31730	14.52389	0.3101348	2.7106440342647
(440855)	16.8	47.66936	274.33103	5.94877	8.56302	0.1506517	2.7702280342647
(440856)	16.3	0.86633	75.58166	256.34447	9.92369	0.2098100	2.7208437342647
(440857)	16.9	333.97729	351.29743	295.14174	1.38128	0.0693560	2.9829440342647
(440858)	16.8	212.02528	306.03491	137.78039	2.83065	0.0287616	2.8660505342648
(440859)	16.7	324.61073	274.66752	95.50863	8.64273	0.2434217	2.7707795342648
(440860)	16.6	336.33247	359.74417	53.58722	9.65593	0.2630148	2.6880552342648
(440861)	17.4	353.49944	105.80616	224.68829	1.98121	0.1017239	2.7659985342649
(440862)	17.4	293.02379	358.75303	42.07179	4.02253	0.0958517	2.8044609342649
(440863)	16.7	270.91138	201.80274	233.79667	7.05796	0.1981537	2.8115862342649
(440864)	16.5	313.33438	211.02572	181.61432	12.21491	0.1542646	2.7695634342649
(440865)	17.1	331.09575	237.39860	114.82460	8.72573	0.2325912	2.8003122342649
(440866)	16.2	40.87568	82.66056	133.23612	11.72779	0.0372542	3.0553140342650
(440867)	17.1	327.95168	79.24113	290.44354	11.76859	0.2406546	2.7831078342650
(440868)	17.2	180.10979	171.78763	346.49151	4.10516	0.0465261	2.7487988342650
(440869)	17.3	297.98205	193.93485	201.73208	3.34671	0.1015216	2.7989325342650
(440870)	17.0	1.76420	290.10023	27.79747	8.20729	0.2263432	2.7676546342651
(440871)	17.5	354.74261	104.57526	207.99130	12.83315	0.3391046	2.7479757342651
(440872)	16.5	309.66685	163.62197	212.77750	12.45886	0.0737828	2.8373609342651
(440873)	17.2	319.12732	337.36255	38.55112	6.79602	0.0797698	2.8123763342652
(440874)	16.7	313.23764	3.86790	24.64639	7.30573	0.1906801	2.8011644342652
(440875)	17.4	288.63776	5.44375	21.05802	1.98960	0.0793916	2.8836071342652
(440876)	17.4	290.32298	316.06109	71.98655	3.01006	0.1064092	2.8863598342652
(440877)	18.7	246.06295	221.82749	210.40796	1.38049	0.1078898	2.1492154342652
(440878)	16.9	311.44138	51.46970	335.92580	8.33735	0.2035161	2.7668759342653
(440879)	16.9	287.00606	154.89438	291.89266	9.77589	0.3458254	2.7858447342653
(440880)	16.6	344.83601	55.76102	320.23086	6.90419	0.2558979	2.7279473342653
(440881)	16.7	295.60447	115.27512	230.15303	14.63770	0.1005377	2.9878959342654
(440882)	17.2	1.32349	103.06934	219.11858	16.05723	0.1513673	2.8065150342654
(440883)	17.0	340.09604	221.70317	119.63043	4.83154	0.1036102	2.7989090342654
(440884)	16.5	108.41048	356.39576	145.35792	13.47072	0.0612533	3.1407644342654
(440885)	16.8	320.17987	83.70320	257.02669	5.23043	0.1006564	2.8924450342654
(440886)	16.2	225.15147	232.97611	209.35739	14.07828	0.0616771	2.9617521342655
(440887)	17.4	331.53234	62.68175	292.71794	4.15646	0.1388883	2.8035701342655
(440888)	17.0	311.13402	27.70655	323.17256	1.77149	0.1727111	2.8894733342655
(440889)	17.0	315.36252	136.97473	263.57309	2.31163	0.1998821	2.7350054342655
(440890)	18.2	281.95126	352.11572	40.93411	6.64011	0.1847456	2.1441587342656
(440891)	17.5	286.84376	31.89263	352.14517	1.43554	0.0797381	2.8673214342656
(440892)	16.8	21.72498	271.45691	26.93880	13.74914	0.2141229	2.7725447342656
(440893)	16.2	220.51630	168.98318	241.78383	11.09165	0.2509004	3.0686373342656
(440894)	17.2	357.58880	271.68082	79.39016	4.22335	0.1987489	2.7365193342657
(440895)	17.3	241.72569	346.41441	99.45656	3.21885	0.0254653	2.8457104342657
(440896)	16.4	269.91299	175.32614	262.24614	12.83965	0.1649203	2.7911513342657
(440897)	16.8	297.29703	56.72842	355.48657	7.20225	0.2215874	2.7741985342657
(440898)	17.0	344.03754	108.82099	228.43254	12.00327	0.2038336	2.7922047342658
(440899)	17.3	317.23472	310.81288	79.77472	3.16601	0.2036532	2.7484719342658
(440900)	16.8	298.51489	104.22180	233.48484	6.10575	0.1599484	2.9624159342658
(440901)	16.9	342.05674	48.90700	315.94614	6.69637	0.2414514	2.7746755342658
(440902)	15.9	133.97346	246.75140	236.83939	9.45353	0.0305061	3.1577668342659
(440903)	15.6	112.23994	278.82003	276.52503	13.89182	0.0732915	3.1164614342659
(440904)	18.7	358.85940	14.10928	287.27777	4.11344	0.3546261	2.1027878342659
(440905)	16.7	324.16359	118.52781	246.98011	9.51014	0.1546963	2.8416702342659
(440906)	16.2	173.84325	23.30842	62.82622	8.56780	0.0205121	3.1184114342660
(440907)	18.6	276.93870	159.79419	231.76077	2.53856	0.1376564	2.1541169342660
(440908)	18.5	241.27708	338.74941	83.04121	2.27167	0.1097439	2.1790717342660
(440909)	16.5	296.95685	127.40635	244.73974	9.06989	0.1127788	2.9451694342660
(440910)	16.8	282.48023	150.53681	239.83257	9.18767	0.1110578	2.9342854342661
(440911)	16.4	130.88045	43.49888	74.62854	10.03423	0.0581745	3.1818476342661
(440912)	16.1	157.34118	247.63025	226.09257	14.97926	0.0364517	3.1034515342661
(440913)	16.7	322.00648	346.29277	19.36342	10.43476	0.1475079	2.7819213342661
(440914)	17.0	290.57145	313.85261	70.18840	8.14085	0.1296630	2.9192393342661
(440915)	16.3	261.40886	17.36476	47.75718	11.66118	0.1470843	2.9259703342662
(440916)	15.9	321.09380	110.03212	253.63971	13.82241	0.1699002	2.8493637342662
(440917)	16.9	271.00429	12.10046	41.06429	6.16435	0.0624784	2.8974084342662
(440918)	16.5	283.47036	112.69275	237.38151	9.17341	0.1237763	3.0016730342663
(440919)	15.8	157.44307	178.43611	276.72469	7.36422	0.1255647	3.2006646342663
(440920)	17.0	284.13996	125.53599	259.85541	4.83872	0.1121635	2.9233812342663
(440921)	17.0	326.49197	102.06596	258.82447	7.95964	0.1329305	2.8759412342663
(440922)	16.4	285.06338	110.58404	231.09611	9.63237	0.0358416	3.1185596342664
(440923)	16.6	177.14368	261.95618	220.32780	11.46265	0.1201688	3.0450663342664
(440924)	16.6	144.41667	186.10497	322.61865	4.51779	0.1631930	3.2049153342664
(440925)	16.2	14.36400	240.11436	72.50894	15.99226	0.1511699	2.8654350342664
(440926)	16.0	210.02716	50.50066	55.68410	13.12914	0.0932248	2.9873392342664
(440927)	15.4	123.68780	255.07220	266.71788	24.27423	0.2435466	3.2071827342665
(440928)	15.7	134.02358	98.46767	91.92203	17.12866	0.0801649	3.0554879342665
(440929)	15.6	175.71347	174.61367	298.35079	12.70006	0.0954279	3.1805304342665
(440930)	16.0	334.64817	71.48544	283.29898	8.88822	0.1118005	2.9858787342666
(440931)	15.5	222.68966	175.49504	283.98379	12.14762	0.0803398	3.0463165342666
(440932)	15.8	330.84156	59.92750	281.43319	15.39288	0.0550360	3.0420440342666
(440933)	16.1	238.52766	165.78355	275.70536	10.62179	0.1050552	2.9869201342666
(440934)	16.1	202.15150	347.42511	102.75480	15.92240	0.0705598	3.1664453342667
(440935)	16.8	251.19481	117.69707	325.03668	8.86663	0.1054063	3.0038669342667
(440936)	17.7	243.88797	319.21256	104.90858	6.59515	0.1486330	2.2177734342667
(440937)	15.9	199.74689	183.09252	283.23999	14.93263	0.0523227	3.0983948342667
(440938)	16.7	349.15032	58.18595	278.56922	23.71620	0.2307797	2.1666104342668
(440939)	15.5	190.03441	5.36352	108.39135	28.50926	0.0893162	3.1268518342668
(440940)	18.2	279.62375	290.05928	82.14672	6.51887	0.2525002	2.1971967342668
(440941)	16.7	235.95238	82.82795	358.90666	4.93383	0.1352038	3.0556196342668
(440942)	16.4	304.64917	316.78133	68.66463	5.09374	0.1865092	2.9675713342669
(440943)	15.9	302.27350	56.35956	317.38574	26.22726	0.0725133	3.1528589342669
(440944)	15.5	163.95964	249.92647	266.56170	15.37182	0.1028041	3.1134190342669
(440945)	18.3	246.47803	124.57289	290.27411	3.51875	0.0742710	2.2229868342669
(440946)	15.7	187.82297	167.18586	298.10925	26.71589	0.1087434	3.1543787342670
(440947)	15.3	166.22898	171.14952	317.45355	15.98155	0.0920982	3.1950809342670
(440948)	15.8	158.86171	185.86082	317.40531	18.45698	0.0289603	3.1478806342670
(440949)	16.4	262.26808	283.60070	124.94597	8.99181	0.1260878	3.0865905342670

(440950)	15.5	67.06234	167.55370	98.37084	12.02313	0.0442273	3.0802716342671
(440951)	16.2	127.31014	67.74259	116.07808	16.86750	0.1970816	3.2154957342671
(440952)	16.3	281.79047	287.64416	117.44502	9.92696	0.1201088	3.0485078342671
(440953)	16.4	73.03267	266.77093	332.55618	4.31209	0.1178766	3.1911176342671
(440954)	15.9	316.33471	42.24939	325.72822	9.42887	0.0490909	3.0834965342671
(440955)	17.7	102.76092	222.98138	334.75470	4.96457	0.1570446	2.2805847342672
(440956)	16.3	112.15815	90.57134	119.36113	11.57315	0.0302368	3.1001830342672
(440957)	15.9	214.01151	345.37228	128.78906	18.44913	0.1720928	3.0775192342672
(440958)	16.6	295.92328	85.06278	312.65172	9.52271	0.1247040	3.0077404342672
(440959)	16.1	316.71770	236.73527	123.86025	10.99823	0.0862995	3.0640930342673
(440960)	18.4	64.68200	107.81256	70.78109	0.22366	0.1719646	2.3765043342673
(440961)	17.8	224.13184	142.13516	312.77627	7.06679	0.0701116	2.2220016342673
(440962)	18.2	37.75911	273.76067	289.73259	2.02126	0.1710562	2.4005250342673
(440963)	16.4	261.64137	348.01084	90.08497	5.97145	0.1695339	2.9826849342673
(440964)	15.6	139.10560	238.92811	308.78227	8.17602	0.0212138	3.1245042342674
(440965)	15.9	138.89533	241.27912	312.75477	10.57133	0.1169823	3.1552387342674
(440966)	15.8	85.64265	274.99063	336.23086	10.85650	0.0889293	3.1265119342674
(440967)	16.2	295.43079	62.87916	310.63959	15.74754	0.1884442	3.0832827342674
(440968)	16.0	343.99387	25.56283	314.52668	8.68066	0.0983574	3.1299930342675
(440969)	16.1	275.61161	91.60483	299.83687	9.78445	0.0994506	3.1161347342675
(440970)	15.8	129.31502	97.43416	97.55017	9.75219	0.1840668	3.1810101342675
(440971)	16.0	77.41394	300.85384	309.19966	8.94234	0.1089903	3.1626562342675
(440972)	17.9	186.19834	6.07361	126.86126	6.18733	0.0884281	2.2206781342676
(440973)	15.6	34.28500	305.86837	315.03481	14.22935	0.0410878	3.1893563342676
(440974)	18.2	253.73576	273.26313	160.98050	4.68226	0.1184003	2.2120632342676
(440975)	17.7	23.56765	327.45421	311.60819	7.05244	0.0953324	2.2738094342676
(440976)	16.0	147.29030	44.80260	139.60451	16.94856	0.1429744	3.1253474342677
(440977)	16.5	187.61105	329.82853	146.09340	8.83255	0.0969708	3.2033380342677
(440978)	15.8	73.31131	115.87045	136.03915	10.99099	0.0790543	3.1370356342677
(440979)	16.4	284.80531	254.62946	135.18093	1.51749	0.0921385	3.1164615342677
(440980)	16.6	161.46702	193.35665	327.04616	4.45107	0.0962108	3.1399018342678
(440981)	16.5	174.48226	352.50252	130.18977	10.01105	0.0519342	3.2189288342678
(440982)	16.4	246.30338	321.59434	129.23821	10.62869	0.0594952	3.0515497342678
(440983)	16.7	235.95626	311.86863	147.99671	10.39784	0.0833726	3.0775571342678
(440984)	16.5	251.57568	74.20442	12.51312	8.78470	0.2334384	3.0026303342679
(440985)	16.0	155.74882	202.92652	338.13924	9.50224	0.0597750	3.1320680342679
(440986)	16.0	193.69610	191.29333	301.03178	7.92438	0.0270396	3.0579067342679
(440987)	18.2	63.67098	254.65381	353.80093	1.83294	0.0529581	2.2922635342679
(440988)	16.5	181.18894	162.67877	331.30177	24.20003	0.2318847	2.2653867342679
(440989)	16.0	281.44500	60.14611	354.48784	15.96450	0.0724084	3.1518182342680
(440990)	16.4	248.45298	92.91763	352.97334	8.26249	0.1541023	3.1213641342680
(440991)	15.7	217.88223	172.07492	291.30078	16.36469	0.1627507	3.1190435342680
(440992)	17.2	33.96351	298.51554	334.99753	9.52547	0.1742151	2.3158829342681
(440993)	16.1	104.65590	66.75931	157.19565	22.35710	0.0327258	3.1846794342681
(440994)	17.4	356.66916	316.13890	2.39032	7.54847	0.1293334	2.2898693342681
(440995)	16.3	223.65767	110.07780	350.86417	10.33635	0.0675660	3.1888846342681
(440996)	15.7	150.23062	21.64699	158.03309	10.81218	0.0544678	3.2178045342682
(440997)	16.4	226.78851	126.09658	343.25371	9.28498	0.1354364	3.1250456342682
(440998)	16.7	318.73810	241.99931	158.62207	14.30645	0.1978438	3.0007316342682
(440999)	15.4	133.96240	221.04896	332.49128	26.16563	0.1272474	3.1961047342682
(441000)	16.7	289.01703	275.01668	122.79830	6.37783	0.1506943	3.0111222342683
(441001)	18.6	103.47339	25.98045	132.89827	24.04202	0.0425481	1.8396581342683
(441002)	18.0	54.87637	39.70231	181.88851	5.44309	0.1521533	2.3894114342683
(441003)	18.1	26.84411	161.86300	105.25543	3.96516	0.1491761	2.3463090342683
(441004)	18.0	64.23482	126.30889	84.14532	2.57529	0.1300592	2.3716211342683
(441005)	15.2	131.18033	197.82941	337.51873	17.79892	0.0604464	3.2459048342684
(441006)	17.7	32.45628	279.49109	337.55265	5.46645	0.1878919	2.3733790342684
(441007)	18.0	103.47220	61.48024	133.48122	3.09857	0.1729388	2.3168010342684
(441008)	15.6	136.96772	216.67701	340.34634	15.40658	0.0521215	3.1453951342684
(441009)	16.0	164.66882	157.08948	13.28388	17.08563	0.1551026	3.1418779342685
(441010)	18.4	21.93109	281.59667	345.08443	2.25474	0.0603067	2.3317891342685
(441011)	17.9	128.02749	184.16735	1.80676	8.32365	0.1320822	2.2980870342685
(441012)	18.0	111.64735	89.32656	86.87693	2.26162	0.1206390	2.3581201342685
(441013)	18.0	38.99429	123.98211	116.29439	2.54520	0.1744425	2.4013148342686
(441014)	15.8	303.12404	31.65601	9.38040	16.60220	0.0954647	3.1744369342686
(441015)	17.6	11.04497	314.91024	315.36079	6.01348	0.2001882	2.3473812342686
(441016)	15.5	239.30973	294.09795	158.17010	15.37775	0.0521502	3.1916106342686
(441017)	17.8	175.96290	13.31854	115.26997	3.06068	0.1620786	2.3167925342687
(441018)	18.0	40.62010	230.17667	14.33800	1.07464	0.1528426	2.3833348342687
(441019)	16.2	246.68197	265.37026	154.65346	10.80069	0.0820494	3.1787034342687
(441020)	17.9	179.14769	104.34377	25.68008	5.08315	0.1030090	2.2887662342688
(441021)	17.9	274.46246	254.99128	143.07889	5.65368	0.1111379	2.2816850342688
(441022)	17.6	56.77660	235.03667	349.45954	2.32347	0.1975212	2.4022013342688
(441023)	16.1	188.85167	157.92715	337.69380	17.63479	0.0966146	3.1551270342688
(441024)	17.8	41.77739	249.62566	340.46414	4.57870	0.1421175	2.4118536342688
(441025)	17.5	14.31083	208.44912	67.77296	7.55761	0.0984942	2.3895472342689
(441026)	16.1	239.04079	112.26105	348.10758	16.34496	0.1882018	3.0930950342689
(441027)	18.2	101.81248	171.37024	19.89229	1.87821	0.1220636	2.3635234342689
(441028)	17.8	92.92764	210.67109	355.26714	3.46802	0.1937993	2.3260139342689
(441029)	17.6	20.21042	80.69174	196.80017	1.87311	0.2037429	2.4011457342690
(441030)	18.0	63.14730	133.53116	76.40029	2.39619	0.1368351	2.4146832342690
(441031)	17.0	75.03613	107.63815	94.73772	12.21271	0.1970610	2.3843766342690
(441032)	16.4	301.89922	233.85988	177.14958	10.18649	0.2038065	3.0415401342690
(441033)	17.6	55.60877	351.12425	242.10716	5.16774	0.1864080	2.3787352342691
(441034)	17.8	88.55992	262.53180	317.91122	4.42152	0.1817034	2.3296730342691
(441035)	18.0	27.51014	231.25563	19.19317	1.13122	0.1496820	2.4086164342691
(441036)	17.5	119.93771	65.85044	101.49381	3.02533	0.1461603	2.3445992342691
(441037)	18.0	17.00808	97.36667	192.01159	2.53116	0.2008113	2.4109048342692
(441038)	17.5	9.85647	250.66320	46.33852	6.87402	0.1228000	2.3986980342692
(441039)	18.0	98.30847	144.72845	54.63087	3.79139	0.1201752	2.3850173342692
(441040)	17.8	41.43693	256.16486	346.59948	1.33757	0.1500726	2.4208475342692
(441041)	17.7	25.79099	239.84963	39.22930	3.79528	0.1119245	2.4018289342693
(441042)	18.0	55.05642	41.13601	183.73044	1.46616	0.1224890	2.4171079342693
(441043)	17.4	71.57468	122.32874	96.73925	3.12784	0.1572457	2.3946506342693
(441044)	18.1	141.73110	102.15683	47.39686	2.09958	0.1265096	2.3495421342693
(441045)	17.4	10.91924	153.59842	125.37074	3.26014	0.2127316	2.4335835342694
(441046)	17.9	351.12581	183.55281	125.87519	3.55447	0.2072392	2.4404731342694
(441047)	17.5	51.88525	163.00626	81.82721	3.22601	0.1489204	2.3966335342694
(441048)	17.3	331.71728	223.79253	116.56862	8.09695	0.1800759	2.4264249342694
(441049)	17.7	18.66684	183.37701	111.75101	4.52188	0.1444927	2.4009034342695
(441050)	17.9	18.16405	124.10884	175.16268	1.04555	0.1938875	2.3765771342695
(441051)	17.8	29.60612	206.81396	58.32469	2.37518	0.1560848	2.4043346342695
(441052)	17.1	6.55746	217.92932	108.13456	6.32533	0.2470600	2.4016840342695
(441053)	17.3	354.22400	141.52767	158.18656	10.48438	0.1519307	2.4545056342696

(441054)	17.4	11.32880	154.48022	152.58717	14.35674	0.0826896	2.3999363342696
(441055)	17.7	82.17984	124.49340	99.33854	3.38747	0.1165264	2.3932853342696
(441056)	18.0	56.05401	139.51149	93.10883	2.33095	0.1415450	2.4314894342696
(441057)	17.3	1.07357	350.26977	260.48338	11.01657	0.1355569	2.6277127342696
(441058)	16.4	317.09848	331.82380	150.28365	53.27070	0.8131033	2.5404725342697
(441059)	17.4	286.72331	46.51370	327.28141	17.91397	0.0869937	1.9508536342697
(441060)	16.4	357.38482	244.62030	64.19082	12.38526	0.2063964	2.5257635342697
(441061)	17.6	3.52575	136.12594	168.14022	13.12467	0.1250984	2.5484504342698
(441062)	18.0	4.38111	279.81713	9.07674	4.02105	0.2316656	2.5584861342698
(441063)	17.5	321.73637	15.78048	356.30309	7.99059	0.2089204	2.5251782342698
(441064)	17.7	310.17360	78.17722	318.24461	9.18029	0.2929456	2.5393696342698
(441065)	18.4	333.78275	347.27668	5.00232	6.65371	0.3011920	2.5434501342699
(441066)	17.7	30.21954	307.24539	334.63278	18.57058	0.0672150	1.9348159342699
(441067)	17.2	324.60464	41.23639	305.27072	13.81639	0.2771066	2.5653067342699
(441068)	17.7	8.51336	135.12588	183.47078	21.85825	0.0795903	1.9200943342700
(441069)	16.2	264.93400	102.33376	272.64988	12.95600	0.1873926	2.6675499342700
(441070)	17.4	245.91369	246.01914	160.49335	12.65232	0.2732694	2.6701440342700
(441071)	17.7	311.90374	228.61061	157.32669	1.44396	0.1701269	2.5199792342701
(441072)	15.5	327.48936	40.01458	347.45918	2.42705	0.2783154	3.9867735342701
(441073)	17.5	279.94188	194.18160	159.74715	7.19336	0.1551996	2.6614041342701
(441074)	18.4	325.11007	199.12382	176.17047	9.74211	0.3004157	2.5345418342701
(441075)	15.0	297.18864	79.63217	351.05739	10.55104	0.1938226	3.9756327342702
(441076)	17.4	253.53513	260.90875	163.16241	3.67527	0.2025016	2.6326493342702
(441077)	17.9	322.86071	216.00461	137.83470	6.41972	0.2883580	2.5883250342702
(441078)	17.8	6.86080	356.14458	305.21952	16.84810	0.0571727	1.9406476342702
(441079)	16.7	76.49566	262.91675	332.22814	12.05742	0.0853687	2.5377028342703
(441080)	16.5	174.98987	167.79652	344.13353	14.36970	0.1152920	2.5362329342703
(441081)	18.1	308.04585	261.19568	114.74950	2.64438	0.2520021	2.5658426342703
(441082)	18.2	303.72346	0.79537	41.79628	3.20512	0.2178348	2.5300619342704
(441083)	17.7	344.48306	293.58926	33.76760	8.99764	0.1848789	2.5730377342704
(441084)	17.7	2.48396	315.07721	0.34217	14.34580	0.1338929	2.5312390342704
(441085)	17.6	311.37277	22.79281	356.22127	4.08440	0.3240456	2.5765111342704
(441086)	17.0	299.08195	135.35224	205.80545	6.70731	0.1800522	2.6423251342705
(441087)	17.8	318.53234	13.89207	334.09520	1.39513	0.1759200	2.6040671342705
(441088)	17.5	273.95779	102.08950	291.48289	0.91181	0.1054177	2.6342536342705
(441089)	18.6	316.30151	16.06963	348.18256	4.83936	0.2832183	2.5582473342705
(441090)	17.2	231.37570	259.40336	190.26424	14.01930	0.2164591	2.6406086342706
(441091)	18.3	342.31712	102.08660	222.49615	1.16815	0.2208004	2.5919097342706
(441092)	14.9	326.94523	296.86471	99.33327	6.90558	0.3287463	3.9455052342706
(441093)	16.6	320.55567	112.01703	252.23365	14.02561	0.1636554	2.5417728342706
(441094)	17.7	3.02129	115.46199	171.33630	15.00081	0.2537636	2.5750561342707
(441095)	16.7	238.92129	57.69953	328.12314	5.81469	0.0821472	2.7267011342707
(441096)	16.9	313.04223	91.55557	293.70048	9.87243	0.2119413	2.5557323342707
(441097)	17.3	289.19628	79.23079	325.28982	11.70690	0.3118223	2.6143014342707
(441098)	17.5	349.35688	141.69073	165.99900	4.88440	0.2824164	2.5980584342708
(441099)	18.0	314.89740	26.62562	344.22695	6.58893	0.2615178	2.5613980342708
(441100)	17.8	309.85619	310.70377	69.04359	2.88533	0.1098576	2.6270333342708
(441101)	17.9	299.28063	229.32322	177.10744	6.21462	0.2760388	2.5499672342708
(441102)	16.9	322.29556	243.70639	115.20377	3.11553	0.2137211	2.5806535342709
(441103)	18.1	315.52110	330.44897	68.76030	13.95254	0.5464310	2.5625363342709
(441104)	17.6	355.95258	203.26941	126.92010	5.16290	0.2528114	2.5400147342710
(441105)	17.1	319.86379	64.34568	263.12254	5.79744	0.2563363	2.6707303342710
(441106)	16.9	332.59253	214.21132	151.97079	6.14813	0.3188101	2.5645624342711
(441107)	18.3	340.13450	136.37930	207.67719	5.17694	0.2481188	2.5467020342711
(441108)	17.5	273.83560	44.43991	11.77266	4.66075	0.2740015	2.6201566342712
(441109)	17.5	311.22002	139.30720	190.04972	13.73668	0.2393554	2.6530464342712
(441110)	16.5	270.70750	35.35995	20.55618	13.64538	0.1239160	2.6250507342712
(441111)	17.6	314.13144	181.64238	201.44159	4.17975	0.2241196	2.5684229342712
(441112)	17.8	94.56138	10.81010	202.58158	20.63636	0.0371726	1.9537982342713
(441113)	17.2	295.79655	337.88401	37.21035	3.20548	0.1889087	2.6489644342713
(441114)	17.5	317.36719	3.47674	14.32742	6.11778	0.2688368	2.5891462342713
(441115)	18.0	312.03354	205.89006	190.31407	3.76838	0.1955761	2.5373482342714
(441116)	16.8	298.57596	196.93257	213.97081	12.19225	0.2614607	2.5953805342714
(441117)	16.7	286.38840	148.22107	224.92958	12.92742	0.2687706	2.6627098342714
(441118)	17.2	347.31368	335.64590	1.36549	4.95102	0.2749478	2.5722573342715
(441119)	17.7	304.63521	39.46532	348.80316	2.51445	0.2603452	2.5889844342715
(441120)	17.6	306.17232	198.84466	210.66187	11.32511	0.2377521	2.5616587342716
(441121)	17.9	272.58376	37.78657	20.23185	1.91616	0.1421310	2.6196176342716
(441122)	17.5	249.12288	248.04277	179.07728	2.87221	0.1427142	2.6841872342716
(441123)	17.5	282.05284	231.44600	171.79522	14.69938	0.1662922	2.5660968342716
(441124)	17.8	292.11804	224.73500	153.99413	3.97713	0.1330012	2.5810937342717
(441125)	17.6	308.46357	18.63803	357.47997	3.52593	0.1636410	2.6143201342717
(441126)	18.0	316.65644	193.17165	170.26334	3.67888	0.2460034	2.6072718342717
(441127)	17.5	251.13280	351.14220	87.75946	3.42335	0.1833056	2.6535455342717
(441128)	17.5	304.22175	243.77667	177.76289	4.55174	0.2268498	2.5505110342718
(441129)	17.9	312.46377	212.67714	171.83639	2.58460	0.2471822	2.5851015342718
(441130)	17.4	349.47085	247.50303	83.14355	5.96812	0.3226884	2.5552735342718
(441131)	16.4	261.88327	183.53809	196.46418	15.71226	0.1385154	2.6914084342719
(441132)	18.1	295.11550	113.98673	287.21318	3.82236	0.3136473	2.5885249342719
(441133)	17.9	331.91173	235.24200	141.01512	3.30569	0.2826910	2.5412220342719
(441134)	15.5	333.58744	26.78502	359.85146	3.72547	0.2009551	3.9528519342719
(441135)	17.4	260.27513	337.79370	79.15544	3.08178	0.1237019	2.6572945342720
(441136)	17.5	322.80426	136.70232	227.16547	1.26723	0.1912508	2.6042191342720
(441137)	17.9	337.89642	174.38802	176.47113	1.84578	0.2403768	2.5715061342720
(441138)	16.7	288.36387	127.49245	285.91611	10.56359	0.1795996	2.5741993342720
(441139)	17.2	311.12376	233.94781	159.93738	6.60150	0.3444902	2.5854282342721
(441140)	16.4	296.87604	195.90847	144.38801	37.65687	0.3022662	2.6753729342721
(441141)	17.5	323.38602	327.59259	33.97550	5.77314	0.3372397	2.5813293342721
(441142)	16.6	285.84824	358.30879	18.27288	8.70518	0.0970346	2.6585952342722
(441143)	17.7	307.21433	144.44622	267.29344	3.46443	0.3396636	2.5763606342722
(441144)	17.9	336.86855	283.41657	63.63555	6.47632	0.3504186	2.5531832342722
(441145)	17.5	249.50942	59.49926	29.98964	2.26521	0.1338302	2.6113312342723
(441146)	16.9	74.77535	208.21652	15.99767	16.76429	0.1259685	2.6675391342723
(441147)	18.6	332.70540	95.21370	250.05984	0.84615	0.3197731	2.5750607342723
(441148)	17.6	350.79968	95.95124	230.19209	1.57710	0.1247607	2.6102088342724
(441149)	17.2	329.03473	239.85534	94.60080	4.12826	0.0981379	2.6745100342724
(441150)	16.8	269.55535	341.28354	67.64204	12.41874	0.1943853	2.6380336342724
(441151)	17.5	316.20237	349.03363	28.50120	5.90516	0.2130578	2.6023408342725
(441152)	18.6	321.50506	338.19341	16.73387	5.00963	0.3168965	2.5578713342725
(441153)	17.7	357.24205	238.39153	78.15702	1.64957	0.1986636	2.5804092342725
(441154)	17.7	316.38881	335.21909	42.50171	5.99830	0.0843418	2.5947701342725
(441155)	16.9	355.89326	295.43627	27.64242	15.28521	0.1518664	2.6028216342726
(441156)	17.4	24.22576	59.10822	215.36826	7.57830	0.0868057	2.6867596342726
(441157)	17.5	301.58722	195.54949	194.43267	2.01272	0.1024947	2.6317161342726

(441158)	17.3	298.94818	97.29029	288.21275	3.68256	0.2759450	2.6130784342726
(441159)	17.4	302.04651	51.17469	349.37929	13.61302	0.2883127	2.5716302342727
(441160)	17.1	340.69320	86.55413	221.88734	11.70236	0.2780253	2.6561831342727
(441161)	17.5	299.53718	4.07643	0.67089	2.86167	0.0966822	2.6624988342727
(441162)	17.3	335.24641	289.91770	40.29362	5.17715	0.1888256	2.5941720342727
(441163)	18.2	1.72106	79.27723	229.77509	2.63522	0.1646468	2.5853094342728
(441164)	17.1	237.99597	148.44751	247.88562	2.11850	0.1859399	2.7508761342728
(441165)	17.7	337.94720	301.23328	40.45310	6.54663	0.1944723	2.5719023342728
(441166)	17.6	306.99402	318.44076	50.63634	6.56273	0.2133740	2.6123513342728
(441167)	17.7	2.24998	235.45580	72.88312	3.37495	0.1713345	2.6267125342729
(441168)	17.5	304.71841	239.67895	160.90091	2.35704	0.1212470	2.5943032342729
(441169)	17.7	312.33878	121.01542	264.39550	2.92069	0.2851205	2.5853532342729
(441170)	17.8	334.33929	15.57473	1.94733	2.31303	0.2603108	2.5430705342729
(441171)	17.5	299.83194	238.28807	155.79473	7.20665	0.2318046	2.5383584342730
(441172)	17.0	302.91230	83.69666	315.75649	10.26247	0.2097461	2.5764115342730
(441173)	17.5	313.22509	63.58320	324.73625	3.23530	0.2153476	2.5840520342730
(441174)	17.4	312.02257	242.12166	122.45559	4.36995	0.2542481	2.6044783342731
(441175)	17.5	341.01980	291.11212	40.56661	4.51682	0.1748457	2.5782389342731
(441176)	16.7	168.55191	251.49205	274.96594	6.09409	0.1544425	2.6375005342731
(441177)	17.2	322.20809	83.44249	301.88553	2.24332	0.1358906	2.5733711342731
(441178)	17.8	73.92880	33.10199	203.12149	21.39139	0.0599919	1.9589987342732
(441179)	17.3	346.33878	3.06371	343.69604	7.32324	0.2035293	2.5628552342732
(441180)	17.2	271.06562	218.14703	199.51700	9.41692	0.1053860	2.6025328342732
(441181)	17.7	22.80169	253.74566	28.19808	4.90771	0.1785632	2.6146274342732
(441182)	17.7	307.69899	55.50210	3.68759	12.52668	0.2659656	2.5365658342733
(441183)	17.8	315.98126	329.47481	34.24425	5.02423	0.1346557	2.6113929342733
(441184)	17.3	349.40063	278.81573	34.84077	2.06836	0.0886482	2.6546708342733
(441185)	17.2	2.85060	187.14050	107.48998	6.11694	0.0896660	2.7095552342733
(441186)	15.4	343.75811	323.98597	65.84016	10.09575	0.2404286	3.9963645342734
(441187)	17.9	295.49860	325.40237	78.27948	2.24637	0.1439553	2.5798203342734
(441188)	17.0	290.02379	283.06476	95.49830	10.16272	0.1983519	2.6518033342734
(441189)	17.7	321.67271	260.90033	134.78514	4.87781	0.2598181	2.5451992342734
(441190)	16.8	336.82771	248.54219	66.71861	5.03389	0.0420212	2.7659382342734
(441191)	17.1	290.56192	94.56070	287.93571	15.31285	0.2486630	2.6200091342735
(441192)	16.8	302.11922	60.91919	327.65760	16.77740	0.3079771	2.5929149342735
(441193)	17.3	331.92888	21.89806	315.91554	11.32950	0.2409697	2.6068088342735
(441194)	17.6	350.44719	118.26820	186.26566	4.21113	0.2417492	2.5942346342736
(441195)	17.7	270.40761	212.66101	189.20508	1.38179	0.0833914	2.6570005342736
(441196)	17.3	284.02312	51.35169	357.15068	4.23226	0.1682824	2.6296633342736
(441197)	17.7	301.85678	355.10756	41.71683	6.63230	0.0932043	2.6029024342736
(441198)	17.7	321.14045	336.11887	26.56327	2.10422	0.1571805	2.5779755342737
(441199)	17.3	264.96167	153.75159	210.17555	4.92798	0.0937547	2.7712125342737
(441200)	17.4	279.23491	351.26615	73.62195	6.00644	0.2553438	2.6049299342737
(441201)	17.0	287.79649	290.42798	130.89397	10.09372	0.1945397	2.5874502342737
(441202)	17.6	352.87176	105.08654	229.15654	2.13604	0.2094110	2.5716537342738
(441203)	17.7	343.02499	114.83317	212.34868	1.31191	0.2159951	2.6300130342738
(441204)	16.4	34.27306	34.95795	238.46513	13.15000	0.1784872	2.6853516342738
(441205)	17.4	329.13718	123.33521	229.73711	5.92592	0.1937894	2.6214123342738
(441206)	16.3	52.30791	147.62816	86.22614	4.85940	0.0404695	2.8128689342739
(441207)	17.5	280.94885	6.84308	35.58413	7.45977	0.0863231	2.6576683342739
(441208)	17.2	351.35373	231.05932	103.74575	5.96809	0.2932462	2.5474559342739
(441209)	17.6	356.92790	238.27336	77.66077	12.09598	0.3028879	2.6041223342739
(441210)	16.9	317.40555	255.80803	147.87656	4.86571	0.2601759	2.5567379342740
(441211)	17.2	326.80573	283.84243	72.48743	7.10752	0.3113859	2.6000711342740
(441212)	17.6	302.34704	295.76692	93.43175	5.55525	0.2887311	2.6179319342740
(441213)	16.8	251.77819	195.72925	241.16265	13.90167	0.0747044	2.6678193342741
(441214)	17.1	326.37413	184.26729	165.70940	4.85853	0.2232015	2.6111141342741
(441215)	17.1	318.30975	73.80979	296.24737	12.80842	0.2201029	2.7092623342741
(441216)	17.7	298.65740	51.15633	349.68784	4.45510	0.2091477	2.6010403342742
(441217)	18.0	317.37111	0.35048	0.60843	5.16755	0.2614746	2.6148722342742
(441218)	16.7	202.05186	219.28905	273.79396	4.68352	0.1186777	2.6608844342742
(441219)	17.1	320.69432	238.49474	116.64038	4.18369	0.1399748	2.6543305342742
(441220)	18.2	301.79931	211.12318	235.79149	21.26116	0.1357214	1.9071974342742
(441221)	16.8	302.05224	336.35006	56.50873	11.94307	0.2253541	2.6297267342743
(441222)	17.5	333.31612	296.66151	64.38429	3.23946	0.2514962	2.5990220342743
(441223)	17.7	340.53589	100.13612	235.19107	1.72253	0.2751794	2.6240939342743
(441224)	17.4	309.85256	352.85043	359.27753	5.56238	0.0535690	2.6877895342744
(441225)	16.9	298.70694	143.64448	248.77267	11.09419	0.1207381	2.6191917342744
(441226)	16.7	184.92789	238.37122	235.53021	7.48126	0.1599025	2.7990902342744
(441227)	17.0	57.67889	169.93774	67.69306	1.51041	0.0136228	2.7702154342744
(441228)	16.6	301.16933	277.23600	76.38540	11.66780	0.2867426	2.6673769342744
(441229)	17.1	329.60044	186.01909	188.90217	9.91248	0.2125267	2.5748621342745
(441230)	17.2	308.70304	171.59747	236.07619	3.19219	0.2325530	2.5718060342745
(441231)	17.8	340.89902	170.38710	178.79721	4.78855	0.2410733	2.5895682342745
(441232)	17.8	282.49408	18.70579	20.88985	2.96272	0.1159645	2.6770002342746
(441233)	16.7	15.19244	65.98918	257.06504	5.84117	0.3024274	2.5523298342746
(441234)	16.8	345.71932	98.18883	256.44089	10.54840	0.2008088	2.6024518342746
(441235)	16.9	305.56943	332.95164	58.36051	14.53917	0.1269776	2.6231955342746
(441236)	17.3	292.08000	268.44616	120.55710	3.24119	0.2163055	2.6444547342747
(441237)	16.4	218.10493	18.91609	108.04231	17.48618	0.1826252	2.7748486342747
(441238)	17.2	16.39582	161.37852	117.67783	5.38402	0.0156884	2.7526693342747
(441239)	16.9	284.15424	320.23745	79.91266	6.45928	0.0817272	2.7054857342747
(441240)	18.2	327.78727	90.01280	250.41818	1.18828	0.2227984	2.6266247342748
(441241)	17.4	295.30983	238.16283	193.82721	4.99654	0.3021304	2.5785491342748
(441242)	17.5	285.44561	270.34090	137.40927	4.21331	0.2613518	2.6259538342748
(441243)	17.6	316.19439	279.15052	71.31733	2.23847	0.1053442	2.6929238342749
(441244)	16.4	295.08471	306.08259	89.16143	14.26113	0.1899949	2.6461850342749
(441245)	17.3	331.92075	274.48618	93.42212	12.51696	0.3100688	2.5689392342749
(441246)	16.8	9.70035	39.87233	263.15070	12.51575	0.1723556	2.6385970342749
(441247)	16.4	167.72021	206.01935	289.03747	7.88129	0.0397468	2.7179157342749
(441248)	17.5	286.31090	262.68433	130.76544	3.50007	0.1783582	2.6549836342750
(441249)	17.4	283.56319	258.00726	148.22890	4.28971	0.2552104	2.6344889342750
(441250)	17.8	331.12877	329.83264	22.16958	3.83089	0.1698260	2.6356337342750
(441251)	17.1	339.16363	336.86643	33.02076	3.29785	0.0675696	2.6040745342750
(441252)	16.5	48.55125	219.79373	83.82565	10.13528	0.1200037	2.6165679342751
(441253)	16.7	296.40188	336.48177	93.90363	8.70150	0.1246838	2.5797912342751
(441254)	17.0	278.63970	328.31741	72.77356	6.16075	0.1127731	2.6979456342751
(441255)	17.9	338.59415	105.20476	238.27058	3.33743	0.2254688	2.6105152342752
(441256)	17.2	305.97109	353.27092	14.55935	6.30090	0.0435176	2.7026830342752
(441257)	16.5	293.20580	261.01745	131.01489	12.96662	0.2150974	2.6367482342752
(441258)	17.1	297.17390	199.04652	217.43941	12.57444	0.2538572	2.6001505342752
(441259)	16.7	329.52614	24.36841	338.82016	14.73270	0.1068297	2.5977588342753
(441260)	17.3	286.29883	70.39775	312.34648	5.71701	0.0537204	2.7017880342753
(441261)	17.7	326.70870	10.52382	359.78200	5.21152	0.2688122	2.5806115342753

(441262)	16.8	279.09485	190.46660	233.35252	12.26702	0.2670569	2.6466688342753
(441263)	16.8	195.62235	237.44882	256.68323	12.49033	0.1546761	2.7191081342754
(441264)	17.0	265.23510	318.40107	94.43467	7.06157	0.1304374	2.6779059342754
(441265)	17.5	323.69868	140.46955	235.82177	10.76995	0.2013154	2.6034546342754
(441266)	16.9	266.06855	129.72945	309.12264	5.80327	0.3804598	2.6651698342754
(441267)	17.0	315.69569	85.67317	269.90326	9.95669	0.2106773	2.6547182342755
(441268)	17.0	287.97966	339.71120	77.65159	12.61024	0.1663966	2.6250109342755
(441269)	15.9	68.21606	91.07047	86.71758	15.66084	0.1401726	3.1283997342755
(441270)	16.4	309.93583	101.29358	260.22993	25.94077	0.3123281	2.6263715342755
(441271)	17.1	309.53660	228.34589	143.29657	6.53180	0.3120642	2.6304988342756
(441272)	17.1	283.14298	4.34052	47.92809	5.77862	0.1770927	2.7011252342756
(441273)	17.6	324.64814	80.12528	266.00544	1.13862	0.1398790	2.6584767342756
(441274)	15.8	347.78528	73.00481	270.63135	15.59105	0.2648535	2.6009705342756
(441275)	17.3	320.38560	355.17417	23.56996	5.37118	0.2591923	2.5926488342757
(441276)	17.3	305.28022	88.73250	316.36561	3.22062	0.2937000	2.6280181342757
(441277)	16.8	269.56949	140.77517	271.14107	8.75253	0.0837412	2.6896855342757
(441278)	16.1	134.14463	219.68166	304.08986	9.64137	0.1028600	2.9868208342758
(441279)	16.6	296.53297	121.18433	262.41700	5.04957	0.0437197	2.6997759342758
(441280)	17.4	265.95998	307.68647	107.02717	5.92321	0.2490173	2.6832845342758
(441281)	17.4	321.28759	284.31086	85.19524	4.08318	0.2628048	2.6045706342758
(441282)	16.6	301.13136	312.04623	57.16558	10.75440	0.0990320	2.6831165342759
(441283)	16.9	310.11186	326.31490	48.06404	6.89478	0.2110991	2.6574825342759
(441284)	16.6	261.16386	347.89421	88.85636	14.81416	0.2507769	2.7073469342759
(441285)	16.6	313.86106	88.22376	269.33124	10.91303	0.2894135	2.6438041342760
(441286)	16.5	309.51029	56.53853	261.08512	12.73192	0.2145229	2.7970576342760
(441287)	17.2	315.49536	88.95825	311.38029	2.84177	0.2510532	2.5860421342760
(441288)	17.2	278.22246	132.49989	292.66479	12.23026	0.2322621	2.6806259342760
(441289)	17.8	311.67895	13.21341	22.34660	1.72756	0.3195433	2.6481587342761
(441290)	16.7	277.15556	18.22931	56.53206	14.80687	0.2267643	2.6677059342761
(441291)	16.4	292.00211	1.20749	54.50854	10.10424	0.1606392	2.6243337342761
(441292)	16.9	303.28140	291.76210	88.79149	14.71959	0.1188850	2.7607005342762
(441293)	16.0	306.62570	127.15418	272.19169	30.78360	0.2159319	2.6156461342762
(441294)	17.0	342.77643	63.17020	282.68656	4.95677	0.0838466	2.6872297342762
(441295)	17.1	265.09279	146.12301	294.70361	7.39609	0.1417278	2.7031673342762
(441296)	16.8	281.60698	342.89447	78.12674	6.05083	0.1012484	2.7105965342763
(441297)	17.3	327.81194	306.04081	45.35140	6.76641	0.0718024	2.7712818342763
(441298)	16.8	291.67075	118.39912	307.51069	29.76406	0.3116367	2.6578443342763
(441299)	16.8	224.61514	330.91992	101.55144	11.96664	0.0957705	2.8954424342763
(441300)	16.7	272.14483	126.61554	290.45545	6.16418	0.0621901	2.7859980342764
(441301)	16.1	312.97785	202.87303	110.27323	11.09062	0.0977017	3.0290667342764
(441302)	16.6	310.23009	333.67732	98.23956	13.01766	0.1680409	2.6261504342764
(441303)	16.9	291.31287	108.89329	298.65931	11.57630	0.3559870	2.6825900342764
(441304)	20.8	233.12556	128.50086	299.68710	2.66141	0.1023000	1.3948437342765
(441305)	17.4	252.56071	285.85652	140.90250	8.23566	0.2187650	2.7861878342765
(441306)	16.6	322.59436	297.47864	117.42199	9.30530	0.2324917	2.6207802342765
(441307)	16.4	52.87797	79.25211	119.47690	14.28283	0.0828060	3.2013701342765
(441308)	16.8	57.89306	341.10775	291.69155	3.48640	0.0694503	2.8070326342766
(441309)	16.7	255.00447	142.53137	295.64453	6.52451	0.1155531	2.7782249342766
(441310)	17.0	211.77558	143.14941	307.71139	5.08165	0.0307466	2.9299209342766
(441311)	15.4	55.25731	267.97099	304.36611	21.28558	0.3634192	3.1907716342766
(441312)	16.6	306.65584	17.97468	15.02280	3.59767	0.1876061	2.7200259342767
(441313)	17.5	248.52153	145.96494	302.17781	15.97679	0.1003384	2.0006243342767
(441314)	17.3	293.13155	109.70501	286.29262	5.51053	0.0805064	2.7731464342767
(441315)	16.9	272.81483	300.29749	113.48334	4.88221	0.0881958	2.7555046342768
(441316)	17.8	286.71693	273.61160	119.16728	8.62481	0.2400166	2.7640110342768
(441317)	15.9	149.09936	215.59284	329.90411	14.06774	0.0881226	2.8013098342768
(441318)	17.4	301.53691	327.41681	54.79907	3.63345	0.1926480	2.7478066342768
(441319)	16.9	217.34249	84.43134	30.52643	8.44258	0.1684306	2.8079015342769
(441320)	16.8	260.85589	292.35168	141.15320	14.04137	0.1292778	2.7615565342769
(441321)	16.8	226.60852	131.99088	315.13810	14.47065	0.1061591	2.8467486342769
(441322)	16.9	274.32040	105.14016	325.46666	12.59013	0.2279650	2.7088665342769
(441323)	16.6	225.39079	198.09279	273.83586	13.17986	0.0501189	2.6797953342770
(441324)	16.6	286.47866	285.72392	137.85941	8.30248	0.2083784	2.7554234342770
(441325)	16.5	225.21494	338.40576	137.20941	11.47751	0.2549122	2.7911577342770
(441326)	16.4	313.90736	40.72402	312.88961	8.77451	0.0784021	2.9673882342770
(441327)	17.0	229.84339	341.57034	132.75313	10.25399	0.2375839	2.7998666342771
(441328)	16.5	247.23437	61.13400	356.95407	10.29225	0.0634109	2.9833617342771
(441329)	16.8	254.14164	87.40423	351.57902	14.47890	0.1247137	2.8590562342771
(441330)	17.0	245.73067	86.01649	347.03994	9.00605	0.1063723	2.8795468342771
(441331)	17.1	290.22255	286.79740	154.57313	13.42481	0.2432172	2.6685758342772
(441332)	16.0	67.97666	246.10729	338.21840	14.80565	0.1918110	3.1648580342772
(441333)	16.5	171.41128	167.51118	317.26768	9.47282	0.0590750	2.9876369342772
(441334)	17.0	288.79335	87.79879	322.79197	12.62111	0.2531722	2.7414949342772
(441335)	16.2	8.20540	332.40185	310.05074	7.42955	0.0360129	2.9016635342773
(441336)	16.2	31.46304	314.14424	323.01736	7.84192	0.1034779	3.0122150342773
(441337)	16.1	163.67793	296.41530	152.08017	11.04406	0.1374911	3.1646488342773
(441338)	16.6	23.23844	110.71807	157.70908	3.06988	0.1951653	3.0770158342773
(441339)	16.3	21.35013	128.48101	148.73378	12.67883	0.1141846	3.0903353342774
(441340)	16.1	45.50726	275.22798	331.52821	16.49717	0.0765191	3.1108026342774
(441341)	16.0	19.11582	312.00137	324.07648	10.33307	0.0480499	3.0709265342774
(441342)	15.7	50.51883	297.61041	327.33969	16.88934	0.2115818	3.0714080342774
(441343)	16.6	252.96103	345.40095	98.78473	7.28541	0.0277311	2.8630062342774
(441344)	17.9	26.91471	137.79572	139.54666	7.44704	0.2571089	2.1356804342775
(441345)	16.5	73.78724	35.77936	166.86037	15.02254	0.1918434	3.2131168342775
(441346)	16.8	254.50719	72.58068	347.41520	5.13138	0.0277799	3.0092713342775
(441347)	16.9	148.90138	335.58548	171.20300	9.71508	0.0867050	3.0472635342775
(441348)	16.2	134.84496	318.41441	161.95388	11.70176	0.1343743	3.1456540342776
(441349)	16.2	266.00422	71.48535	353.67445	10.01138	0.0551333	2.8867873342776
(441350)	16.5	65.99465	264.73493	328.45346	13.86050	0.0724678	3.0324300342776
(441351)	15.7	45.65715	254.46229	344.35216	24.76934	0.2551385	3.1822346342776
(441352)	16.3	270.75302	125.28380	303.79954	10.98683	0.0685595	2.7507913342777
(441353)	16.3	52.62362	119.58677	137.98342	12.14370	0.0908491	3.0084175342777
(441354)	16.4	127.67200	4.06356	160.50539	10.22318	0.0902430	3.0787489342777
(441355)	15.9	57.26729	63.44991	166.23165	27.57733	0.1596958	3.1358409342777
(441356)	16.1	52.76763	261.38600	357.21565	15.11168	0.2010522	3.1546362342778
(441357)	15.7	198.73653	306.04611	121.24272	11.51832	0.1167349	3.0963385342778
(441358)	16.6	276.93322	320.40335	131.00819	5.65411	0.0807647	2.7664594342778
(441359)	16.2	58.60873	259.58842	337.76745	10.08502	0.0484024	3.0580067342779
(441360)	16.6	46.21009	275.94368	0.96909	5.18003	0.1440917	3.0079013342779
(441361)	16.4	18.61708	134.69827	135.60505	11.65281	0.2001747	3.1698682342779
(441362)	16.5	52.91824	292.79939	336.26120	6.99418	0.0243675	3.0093056342779
(441363)	16.1	276.79661	260.42145	167.77554	15.08090	0.1328933	2.8554174342779
(441364)	15.9	64.75466	224.02916	9.92231	14.18595	0.2299436	3.1822951342780
(441365)	16.7	322.72759	197.83342	147.35217	7.67020	0.0935653	3.0047414342780

(441366)	16.3	86.18796	322.36859	266.55727	5.18134	0.1547430	3.0873199342780
(441367)	15.6	26.92755	109.36855	160.63982	24.04747	0.1365780	3.1349488342780
(441368)	16.4	54.92130	145.35944	94.36038	6.08061	0.1033761	3.1352120342781
(441369)	16.1	281.52871	11.94419	25.93759	10.06117	0.0765984	2.9741057342781
(441370)	16.7	204.37491	131.89414	327.61328	7.19065	0.1267125	3.0744410342781
(441371)	17.9	28.08264	307.86134	278.50428	1.63574	0.1559930	2.2481799342781
(441372)	15.8	171.96515	158.15794	322.50678	9.31402	0.0527359	3.0865128342782
(441373)	16.0	86.81517	29.26192	190.58672	16.12498	0.1245795	3.1244854342782
(441374)	15.9	92.93599	44.92773	158.57512	27.93441	0.1403489	3.1333637342782
(441375)	16.2	70.76441	232.67418	352.78869	11.05712	0.0346801	3.1472033342782
(441376)	16.3	161.99550	306.97369	193.36098	11.16033	0.0457302	3.0187331342783
(441377)	16.5	3.39599	110.16407	188.75554	16.36454	0.0985124	3.1239893342783
(441378)	17.0	287.82799	323.39687	105.07866	3.22251	0.0583647	2.8879541342783
(441379)	16.1	106.92721	177.99101	27.32292	14.56521	0.2704042	3.0656120342783
(441380)	16.0	327.41589	347.09119	18.81588	9.40459	0.0844613	2.8971976342783
(441381)	15.9	24.93129	324.63926	325.92725	14.78401	0.0573937	3.0063165342784
(441382)	15.6	72.21248	299.56516	307.90082	10.84726	0.1014817	2.9964442342784
(441383)	16.5	49.38052	240.29540	7.11263	12.92367	0.1505105	3.1328288342784
(441384)	18.2	18.66723	113.09237	166.59551	7.82053	0.2402974	2.2012038342785
(441385)	15.4	357.45416	319.13542	341.47404	15.76020	0.0781081	3.0897433342785
(441386)	16.6	80.62582	49.53697	183.54057	17.09228	0.2030631	3.1230157342785
(441387)	16.5	319.23051	238.05003	123.33428	3.08695	0.0253691	2.9828017342785
(441388)	16.5	86.25891	74.56448	135.03793	8.02846	0.0817016	3.1942365342786
(441389)	16.0	228.08822	289.91002	174.85051	15.27434	0.0360268	3.0196279342786
(441390)	16.3	19.42877	188.12430	89.36552	6.93065	0.0940940	3.2374613342786
(441391)	16.5	322.49755	7.69931	337.31543	10.50108	0.0188251	3.0150123342786
(441392)	18.1	9.88187	220.63301	75.12257	4.60472	0.1918063	2.1873467342787
(441393)	16.1	197.54553	105.63150	359.48482	14.53745	0.1068425	3.0155373342787
(441394)	16.5	75.36169	184.83759	38.32529	5.69761	0.1202099	3.2001944342787
(441395)	16.5	42.70085	246.36685	23.82282	4.60697	0.1290310	3.1781100342787
(441396)	17.0	91.40082	135.40939	60.66793	4.03832	0.1919447	3.2088642342788
(441397)	16.5	33.46228	92.65499	173.37083	11.51727	0.1839506	3.1865865342788
(441398)	16.3	239.03125	25.71924	56.34029	10.87234	0.0503828	3.0930479342788
(441399)	18.8	40.79398	98.40488	133.97395	4.79357	0.1859858	2.2378323342788
(441400)	18.2	67.59175	107.17279	110.25740	4.93912	0.1086339	2.2070179342788
(441401)	18.2	12.05445	262.04622	14.90377	3.28043	0.1682227	2.2269907342789
(441402)	16.2	43.79200	82.94978	172.46287	9.22130	0.0168833	3.1747406342789
(441403)	18.7	97.92082	167.56311	37.38626	4.90631	0.0765921	2.1662191342789
(441404)	16.4	97.09278	125.51897	98.15364	8.07945	0.0744870	3.1238832342789
(441405)	16.6	304.18361	182.62406	204.94246	17.34976	0.0200592	3.0971216342790
(441406)	17.7	40.74935	223.66369	29.72735	7.08488	0.1426110	2.1957898342790
(441407)	15.6	69.96099	100.16603	135.32323	16.78947	0.1850902	3.1954938342790
(441408)	15.8	26.92449	116.10830	202.48793	25.50605	0.2379566	3.1288874342790
(441409)	15.8	132.46353	330.09933	211.31358	14.76794	0.2966586	3.0608876342791
(441410)	17.6	101.48920	338.34780	196.96212	3.80409	0.1260736	2.2172619342791
(441411)	18.4	68.94675	150.77728	80.69075	5.62680	0.0293073	2.1580725342791
(441412)	16.4	29.10651	97.23955	183.76571	18.29386	0.1386743	3.1781736342792
(441413)	16.7	153.75438	118.82498	41.78244	6.74435	0.1351347	3.0497708342792
(441414)	15.7	316.71596	136.61537	177.68538	10.06888	0.0756088	3.4509453342792
(441415)	18.2	33.15562	133.93267	149.22520	3.02607	0.1930955	2.1965500342792
(441416)	18.4	29.03429	140.26133	84.76715	6.87148	0.1477956	2.2755523342793
(441417)	15.7	43.72184	201.18552	89.49526	11.94983	0.0763497	3.1741312342793
(441418)	16.2	3.66327	290.97044	20.88887	15.82568	0.0622350	3.1100884342793
(441419)	16.4	143.28543	137.65494	31.37455	6.18399	0.0253554	3.0905051342793
(441420)	18.2	155.26672	303.33802	164.08467	3.98053	0.0550979	2.2117399342793
(441421)	18.3	350.25431	210.85309	93.84186	4.53898	0.0973107	2.1652333342794
(441422)	15.2	64.55446	241.33285	21.22370	16.94167	0.0903045	3.1063153342794
(441423)	15.5	19.95748	266.00408	37.26561	18.22993	0.0910819	3.1949416342794
(441424)	16.6	183.00350	34.97099	95.09563	6.23650	0.0896536	3.1181073342795
(441425)	18.6	40.57652	88.62449	164.19497	1.99687	0.1777418	2.2007872342795
(441426)	15.9	1.99728	282.43956	27.70535	11.38344	0.1284982	3.1274295342795
(441427)	16.0	21.77769	254.84658	49.06062	11.75956	0.0728029	3.1506414342795
(441428)	18.1	35.10273	178.32921	66.85291	2.38567	0.1873276	2.2288729342796
(441429)	15.8	77.38343	129.59108	102.04033	13.72570	0.0625204	3.2354117342796
(441430)	16.1	78.83328	71.72463	174.56209	15.06614	0.0505853	3.1802340342796
(441431)	15.8	172.17957	87.39249	65.83668	16.85409	0.0719184	3.1516142342796
(441432)	16.3	60.15836	90.03260	166.75068	11.52927	0.0259326	3.1454519342796
(441433)	18.6	45.12322	27.74957	223.22226	2.39241	0.1582010	2.1886847342797
(441434)	16.0	132.55837	110.17093	70.77409	17.72587	0.1783081	3.0863934342797
(441435)	16.6	113.91244	62.87579	124.36310	9.98285	0.0711230	3.2068557342797
(441436)	16.2	111.04460	86.69941	120.07304	10.67175	0.1711886	3.1406354342797
(441437)	15.5	343.20866	279.93094	76.12312	17.10569	0.1250127	3.1625746342798
(441438)	18.0	50.07093	145.98634	107.02733	6.85815	0.1276399	2.1880614342798
(441439)	16.5	123.68882	22.03106	185.45792	8.97899	0.0210762	3.0735103342798
(441440)	15.9	58.88898	61.81048	225.59454	11.64185	0.1656449	3.1437792342798
(441441)	16.0	35.14004	182.69210	141.48280	10.49944	0.1005979	3.0292855342799
(441442)	18.2	6.50031	237.86785	71.78024	2.83678	0.1309138	2.1706953342799
(441443)	18.0	13.14999	226.10387	67.28975	6.32607	0.2432770	2.2244692342799
(441444)	16.3	35.07889	230.54604	41.22715	11.74321	0.1081520	3.1705393342799
(441445)	18.3	105.40477	81.03644	97.15358	4.08479	0.1833970	2.2023668342799
(441446)	16.3	124.71351	82.87402	119.77899	11.72556	0.0498390	3.1238385342800
(441447)	18.3	136.23643	92.64976	72.26960	5.23648	0.0658470	2.1828394342800
(441448)	17.3	347.87871	249.61225	73.18191	6.04760	0.1882876	2.2293856342800
(441449)	15.6	331.36844	247.07664	102.67641	13.29064	0.0701121	3.1908780342800
(441450)	18.7	25.55509	117.99423	145.86502	6.46317	0.1164896	2.2384254342801
(441451)	18.5	321.38052	210.25600	112.68637	2.39458	0.2285498	2.2814913342801
(441452)	16.0	31.13748	144.99527	194.04354	16.33473	0.2431651	3.1367151342801
(441453)	18.5	322.09096	91.95528	263.87696	2.48985	0.2374467	2.3029398342802
(441454)	17.9	340.31337	56.32736	296.51464	4.23909	0.2236830	2.2668840342802
(441455)	16.9	317.50263	50.18764	308.54517	24.21141	0.2763627	2.3286991342802
(441456)	18.2	0.80749	129.91417	171.36475	6.63112	0.2397281	2.3015222342802
(441457)	18.2	346.43703	345.70107	335.10390	6.89786	0.1377940	2.3234255342803
(441458)	17.7	341.72172	57.00453	287.19063	5.57657	0.2139435	2.2745150342803
(441459)	18.0	347.48342	212.46841	117.34135	2.24314	0.2197365	2.2870918342803
(441460)	17.8	314.60913	174.56609	155.32471	3.33243	0.1894200	2.3757092342803
(441461)	17.9	337.86600	144.45712	212.12935	1.28972	0.2243460	2.2885881342804
(441462)	18.7	298.42268	230.38231	142.91139	1.79197	0.1886853	2.3501166342804
(441463)	17.9	353.96409	151.47797	153.69290	2.35734	0.2024403	2.3521080342804
(441464)	17.6	320.11210	115.08457	238.55924	6.20090	0.1595045	2.3266134342804
(441465)	18.2	325.13704	0.96391	333.33516	0.79406	0.2027924	2.3491460342805
(441466)	17.6	272.63763	196.99368	172.63177	2.64047	0.1900088	2.4397616342805
(441467)	18.2	349.61794	174.19850	160.71513	3.43368	0.1957304	2.3010383342805
(441468)	18.2	346.58105	147.14934	164.80961	2.44366	0.1843639	2.3550530342805
(441469)	18.3	314.26577	53.87633	321.96189	3.91032	0.2373482	2.3398683342806

(441470)	18.3	334.57275	32.44854	317.76704	2.95288	0.1725090	2.3115839342806
(441471)	17.1	295.85777	81.17687	345.43386	22.54152	0.2299573	2.2829260342806
(441472)	17.4	358.62233	54.93992	263.78395	5.10292	0.1305654	2.3370471342806
(441473)	18.0	310.30665	195.31447	183.29548	2.48396	0.2094240	2.3751497342807
(441474)	17.6	0.09961	323.84003	355.76596	6.63290	0.2060387	2.3276406342807
(441475)	17.8	1.53827	201.00507	130.23284	0.47405	0.2263019	2.3227764342807
(441476)	17.0	56.82896	237.91103	4.76361	7.14927	0.0819436	2.4172899342807
(441477)	18.4	340.75175	313.16671	21.69873	1.58752	0.2040104	2.3371433342808
(441478)	17.0	110.30417	211.42249	316.88201	5.64681	0.0925301	2.3986494342808
(441479)	16.7	14.81103	42.87501	260.16243	6.05147	0.1490836	2.4470994342808
(441480)	17.5	294.78019	182.37975	224.47363	4.88802	0.1456514	2.3123442342809
(441481)	18.5	331.35957	37.06613	298.29609	3.92140	0.1707767	2.3547410342809
(441482)	17.7	344.47594	185.15178	127.37460	3.29386	0.1783584	2.3678975342809
(441483)	17.9	290.66432	214.31050	179.56992	5.55814	0.2166528	2.3308746342809
(441484)	18.1	349.28196	190.52155	134.07702	2.64791	0.2119881	2.3296893342810
(441485)	17.6	16.56042	337.86903	305.86764	4.94971	0.2163196	2.3470256342810
(441486)	17.9	346.93559	286.62942	29.78706	4.37865	0.2210469	2.3689350342810
(441487)	18.4	331.15971	132.62077	217.36624	0.73235	0.1595394	2.3354515342810
(441488)	17.4	12.24906	274.64655	36.10561	4.92358	0.1975182	2.3342223342811
(441489)	17.7	352.42178	218.78764	116.27920	1.82567	0.2364176	2.3246525342811
(441490)	17.6	316.49030	354.44160	333.94719	2.26730	0.2249856	2.4013129342811
(441491)	17.3	247.07919	34.55897	27.31846	6.54588	0.1001524	2.4241100342811
(441492)	17.6	20.13752	218.43797	62.72063	2.94760	0.2103907	2.3706016342812
(441493)	18.1	326.78711	140.36133	233.51030	3.14165	0.1807512	2.3334831342812
(441494)	18.0	315.36174	31.69748	331.49336	2.30918	0.2046085	2.3500598342812
(441495)	18.1	312.48431	251.24471	132.07139	4.71684	0.2497572	2.3458825342812
(441496)	18.3	355.84633	4.74566	301.18173	1.80614	0.2168134	2.3182048342813
(441497)	17.1	324.82485	151.49888	207.49695	7.25899	0.2098040	2.3440723342813
(441498)	17.9	321.39380	119.95332	222.68226	3.46022	0.1760090	2.3888119342813
(441499)	17.7	282.54499	46.62492	0.58149	6.01930	0.0556537	2.3631411342814
(441500)	18.0	332.65449	243.25781	99.32413	3.00328	0.2311552	2.3590966342814
(441501)	17.8	298.36256	242.62156	131.16861	3.24916	0.2088360	2.3934605342814
(441502)	18.3	3.84430	156.41468	131.44960	2.26696	0.1792646	2.3543132342814
(441503)	17.8	332.66491	18.06539	337.05538	1.12138	0.2065704	2.3412636342815
(441504)	18.1	270.92919	158.38571	278.31546	0.71600	0.1572377	2.3564967342815
(441505)	17.5	310.76178	4.29631	8.33471	2.91470	0.1845836	2.3676550342815
(441506)	17.6	295.99805	181.69889	220.23971	2.90099	0.1508453	2.3527532342816
(441507)	17.8	330.64454	2.69505	0.59868	4.52536	0.0406488	2.3619940342816
(441508)	18.4	281.99135	48.28833	357.77268	3.58289	0.1821771	2.3899659342816
(441509)	15.3	267.75011	93.20741	333.31939	7.69868	0.1471846	3.9755418342816
(441510)	17.9	307.69489	69.47361	299.70453	2.65385	0.2328734	2.3584961342817
(441511)	17.3	354.18953	339.94867	325.13651	4.30408	0.2257366	2.3476734342817
(441512)	18.0	358.98373	193.60550	127.08683	2.06690	0.1999331	2.3530734342817
(441513)	17.8	307.59506	109.11089	283.73312	4.46994	0.1463613	2.3208796342817
(441514)	18.1	320.27251	77.99882	284.28520	3.73470	0.1959042	2.3362479342818
(441515)	18.1	332.22796	85.09582	268.15514	3.25934	0.2351726	2.3361380342818
(441516)	18.0	352.16412	130.41886	186.35609	5.99089	0.2680181	2.3318887342818
(441517)	18.1	336.40704	49.74217	295.87108	0.43429	0.2030550	2.3371389342819
(441518)	17.6	321.54004	221.80012	129.23350	2.12858	0.2037113	2.3626655342819
(441519)	17.3	353.64268	115.52062	199.78003	21.72149	0.2807104	2.3531979342819
(441520)	18.1	258.38387	130.37239	285.63907	3.57544	0.1864686	2.4006654342820
(441521)	18.4	1.46250	126.34205	180.10291	2.49031	0.2233125	2.3585415342820
(441522)	18.0	321.97768	196.80033	141.83481	2.08262	0.1529965	2.4184733342820
(441523)	17.8	302.31816	181.96926	180.35227	4.34472	0.0930861	2.4346422342820
(441524)	16.5	340.82095	194.42594	148.17501	27.28961	0.2134053	2.3339689342821
(441525)	15.3	304.69566	196.03892	205.91761	8.21694	0.2427452	3.8334734342821
(441526)	18.2	299.06136	45.03920	345.37697	2.27930	0.1840438	2.3381281342821
(441527)	18.3	308.67308	194.27491	141.18006	1.88403	0.2025471	2.4436770342822
(441528)	17.8	320.94326	201.41104	168.44297	2.05694	0.2256213	2.3539077342822
(441529)	18.3	319.19116	32.51842	290.73250	1.67627	0.2165490	2.4050971342822
(441530)	17.4	21.92102	58.32449	234.80491	3.70425	0.1502393	2.3695634342822
(441531)	18.0	343.80056	272.21604	61.45822	9.17834	0.3222348	2.3692881342823
(441532)	17.4	341.76027	93.82904	225.86361	7.23594	0.1284657	2.3917961342823
(441533)	16.7	75.93756	238.59999	288.87669	4.17517	0.1461864	2.6374587342823
(441534)	18.4	355.27327	56.25749	253.09649	2.12087	0.2149007	2.3767223342823
(441535)	17.7	354.25485	101.74012	203.97370	9.74550	0.2718149	2.3595746342823
(441536)	17.8	282.48560	282.18006	68.58723	5.32791	0.2191572	2.4745146342824
(441537)	17.8	350.45208	240.00442	65.70858	2.18212	0.1869157	2.4080440342824
(441538)	17.8	332.85151	173.97542	163.95850	3.06545	0.2186189	2.3814775342824
(441539)	17.8	268.95933	355.32426	48.02765	2.32363	0.1843412	2.4476921342824
(441540)	17.7	351.87811	280.34662	25.75864	2.62389	0.2209775	2.3652746342825
(441541)	18.2	300.94549	354.58659	30.37574	2.78356	0.2150099	2.3692947342825
(441542)	18.5	295.80335	32.67813	10.84654	2.85488	0.1798188	2.3688151342825
(441543)	17.6	279.31646	175.24377	213.30929	6.40796	0.1384273	2.4364858342826
(441544)	17.5	347.60503	286.03872	49.77609	7.75825	0.1343485	2.3680605342826
(441545)	18.2	277.58206	35.18684	356.01203	3.23488	0.1314123	2.3952969342826
(441546)	17.6	318.39467	38.61498	337.91905	9.79462	0.2399522	2.3383444342826
(441547)	17.3	324.26771	185.23642	178.41392	7.10108	0.1638622	2.3661623342827
(441548)	15.1	303.46258	346.30396	55.52261	5.97189	0.2723025	3.9348965342827
(441549)	17.5	354.05025	202.74955	126.84582	1.95924	0.1906046	2.3474844342827
(441550)	15.4	271.70977	300.86367	131.09006	3.53854	0.1118677	3.9847291342827
(441551)	17.8	300.39384	203.75202	170.23714	2.04899	0.1384432	2.3760115342828
(441552)	18.0	287.22151	48.86341	333.53222	2.82059	0.1356956	2.3982113342828
(441553)	17.6	328.20354	298.19844	50.32642	7.30669	0.1374417	2.3911264342828
(441554)	18.0	315.14390	267.61281	105.38616	4.22589	0.2309068	2.3463789342828
(441555)	17.3	344.45248	348.62279	354.68043	6.46962	0.1160439	2.3377861342829
(441556)	18.0	260.91130	197.57654	235.79988	2.23300	0.1666343	2.3912922342829
(441557)	16.7	42.94152	4.97884	231.46915	8.36193	0.0942691	2.4847775342829
(441558)	17.2	330.67421	60.65111	257.07108	13.67844	0.2363013	2.3888792342830
(441559)	17.6	353.71570	20.70796	282.53612	4.03928	0.1782192	2.3980663342830
(441560)	18.3	261.96736	23.08883	28.31822	0.80406	0.1983592	2.4208444342830
(441561)	17.6	287.10829	245.56848	154.00228	12.22558	0.2477231	2.3911326342830
(441562)	17.3	204.91835	215.93722	213.09276	14.39210	0.0843435	2.5278866342830
(441563)	15.1	308.54604	237.40454	154.79392	2.78358	0.2316747	4.0015942342831
(441564)	15.6	294.04042	188.86676	237.38221	6.31414	0.3351467	3.9595721342831
(441565)	18.2	353.97471	106.39668	199.01066	1.68043	0.2146709	2.3631968342831
(441566)	18.1	250.30507	299.39335	147.29132	1.28407	0.1514632	2.3939330342832
(441567)	17.1	321.15133	318.49355	51.19928	7.98999	0.1214430	2.3764368342832
(441568)	17.6	7.20449	211.99362	82.37229	3.57139	0.1989467	2.4059954342832
(441569)	17.2	220.87929	37.63287	61.25212	7.78041	0.0689749	2.4368222342832
(441570)	17.4	326.35367	321.62585	28.98177	6.76510	0.1346816	2.4039793342833
(441571)	17.8	319.55026	302.68657	39.99837	5.61908	0.1272525	2.4458898342833
(441572)	18.3	325.35876	300.77547	42.32989	3.02960	0.1985738	2.4136270342833
(441573)	17.9	340.58090	130.34323	218.87872	1.73147	0.2296517	2.3267724342833

(441574)	18.2	268.42522	106.27449	321.33844	2.42011	0.1644234	2.4141786342834
(441575)	18.0	22.81241	50.09337	231.84124	1.72569	0.1470011	2.3850380342834
(441576)	17.9	329.66981	144.49292	219.96023	3.59463	0.1238660	2.3922290342834
(441577)	17.6	353.71067	218.21198	120.73769	2.73123	0.2209666	2.3319394342834
(441578)	16.8	199.24517	181.08469	242.79299	12.36660	0.1427070	2.6012975342834
(441579)	17.5	295.67016	143.24591	267.29346	4.61431	0.2176579	2.3734742342835
(441580)	17.6	318.63440	143.52108	262.14263	7.15717	0.1024724	2.3147315342835
(441581)	16.3	245.67688	165.82197	227.73816	11.65405	0.1743958	2.5540675342835
(441582)	17.8	286.14379	358.91234	57.51261	5.85952	0.1139693	2.3363335342836
(441583)	17.3	257.23979	359.94662	79.37392	7.72321	0.0949109	2.3749412342836
(441584)	16.9	243.61149	1.55786	65.08443	7.67184	0.1080148	2.4505689342836
(441585)	16.6	216.77686	245.29230	168.05584	5.13787	0.3211369	2.5767926342837
(441586)	16.8	306.34771	306.52514	72.57018	9.32791	0.2411769	2.3956336342837
(441587)	17.5	10.62518	7.14622	293.38105	2.32438	0.1453961	2.3933462342837
(441588)	18.0	346.25267	327.20131	359.27637	2.76998	0.1902595	2.3822654342838
(441589)	17.8	0.88736	336.64718	335.30311	5.19860	0.1777709	2.3877006342838
(441590)	17.7	337.81293	344.69170	358.02484	3.95455	0.2482653	2.3654968342838
(441591)	17.8	289.77224	60.68465	319.89448	4.74796	0.1359143	2.4405528342838
(441592)	16.9	304.43283	253.89939	64.77609	16.67381	0.0454692	2.6138773342839
(441593)	17.4	244.29195	299.32872	82.23600	0.96365	0.1054275	2.5746047342839
(441594)	17.0	215.22331	209.33434	217.05810	15.84718	0.1215576	2.5377036342839
(441595)	17.8	356.54915	305.11618	4.08323	2.46998	0.1907891	2.3851838342839
(441596)	17.4	44.64497	13.51742	241.47810	5.92661	0.0879973	2.4353880342840
(441597)	15.7	312.03747	122.22034	280.06770	2.82934	0.2163239	3.9517333342840
(441598)	17.4	352.65027	288.56597	60.83151	5.62630	0.2548219	2.3360463342840
(441599)	17.9	333.36524	312.08926	59.65706	3.78443	0.1933851	2.3561510342840
(441600)	17.6	2.15964	57.27252	276.95358	4.88167	0.2847650	2.3043441342841
(441601)	17.5	348.91825	284.69194	25.48760	6.57513	0.1430026	2.4230113342841
(441602)	17.7	299.71175	78.74103	289.94174	3.65201	0.2024445	2.3941383342841
(441603)	17.7	312.40157	13.23576	359.46062	1.97234	0.2235740	2.3769251342841
(441604)	17.8	337.18952	338.32280	5.78567	2.09622	0.2434204	2.3539997342842
(441605)	17.5	355.12601	85.79948	235.93479	6.64150	0.0299356	2.3821102342842
(441606)	17.4	269.21414	194.04271	255.71808	6.09250	0.0722980	2.3425855342842
(441607)	15.5	302.21600	117.35256	295.70399	7.73102	0.2318798	3.9606981342842
(441608)	18.2	301.87954	41.30649	336.78324	1.73321	0.2141273	2.3997910342842
(441609)	17.2	41.76128	237.78119	33.27324	6.40008	0.1047179	2.4305860342843
(441610)	17.6	312.56335	234.70766	172.19381	2.88484	0.2478490	2.3456457342843
(441611)	17.1	200.48115	228.11922	252.02082	5.80145	0.0670432	2.4356896342843
(441612)	17.6	290.16380	73.96725	301.65462	5.67467	0.1393917	2.3950063342844
(441613)	17.7	336.86549	208.49284	129.38398	6.01577	0.2544530	2.3543551342844
(441614)	17.2	243.66014	163.81229	296.10835	5.46380	0.0926289	2.3845457342844
(441615)	18.0	302.27940	174.22070	230.20284	1.98266	0.1931791	2.3765028342844
(441616)	18.1	318.86700	272.62997	76.77902	2.38488	0.2025453	2.4371308342845
(441617)	18.1	299.96705	320.44794	63.38531	2.88789	0.2406239	2.4118695342845
(441618)	17.6	300.96897	51.96085	333.31555	5.47834	0.2686547	2.3832432342845
(441619)	17.7	273.91157	37.48266	23.71912	4.94206	0.0923509	2.4255984342845
(441620)	16.8	207.14536	359.58227	99.57116	15.00011	0.2001588	2.6070024342846
(441621)	17.9	267.57563	271.52549	163.24454	5.67197	0.1958663	2.3765908342846
(441622)	17.7	350.49399	282.98942	65.78449	3.54978	0.2927665	2.3334046342846
(441623)	17.6	355.06920	13.97372	291.80965	4.97956	0.1780452	2.4694348342846
(441624)	15.5	244.43655	125.59037	264.83229	27.18635	0.2380308	2.5922822342846
(441625)	17.3	269.28005	166.51698	248.57504	9.72231	0.2431670	2.4214096342847
(441626)	17.7	342.12806	85.92484	253.75269	9.32595	0.2609230	2.3576722342847
(441627)	17.3	307.59715	332.30397	61.28932	6.08740	0.2062796	2.3554791342847
(441628)	17.6	262.33350	9.06717	63.54490	6.07920	0.2072392	2.4049776342848
(441629)	17.9	265.61330	301.36576	113.44577	3.66653	0.0790640	2.4340968342848
(441630)	18.1	325.12063	5.44132	334.28476	1.97945	0.2128464	2.3858202342848
(441631)	17.9	320.28043	335.30046	43.20907	3.37606	0.2064661	2.3737595342848
(441632)	17.6	349.28661	266.26283	42.34415	3.59246	0.2064824	2.3940251342849
(441633)	17.5	282.38398	310.00857	117.19913	23.54960	0.2632833	2.3684501342849
(441634)	16.7	257.84885	302.22422	80.65610	5.21107	0.2034878	2.5932309342849
(441635)	17.4	288.12711	335.37006	80.94646	5.37572	0.1641643	2.3801905342849
(441636)	17.6	250.30052	122.88406	314.94956	5.99857	0.1644377	2.4139051342850
(441637)	17.6	264.21965	323.87173	107.46164	4.93101	0.1545532	2.4135164342850
(441638)	18.1	304.87039	293.33359	96.48750	3.94151	0.2351369	2.3929947342850
(441639)	18.0	291.31802	297.62807	98.75134	3.36231	0.1887989	2.4131538342850
(441640)	16.9	296.21264	295.35518	83.36000	12.95973	0.2416789	2.4334830342850
(441641)	18.6	58.17135	133.60943	51.96464	8.17797	0.5608419	1.9969744342851
(441642)	17.7	304.22392	356.35556	21.38420	1.38212	0.1971099	2.4066896342852
(441643)	17.9	300.59945	350.32107	46.89483	3.23641	0.2050070	2.3797618342852
(441644)	17.5	0.56272	72.14119	244.79255	6.73198	0.1028088	2.4119391342852
(441645)	17.7	4.40202	145.29183	161.86185	2.21541	0.2248674	2.3929190342853
(441646)	17.1	312.86748	15.15920	308.36318	1.67715	0.1463245	2.5591899342853
(441647)	17.9	287.49970	15.75031	35.66830	1.59621	0.1716054	2.4028607342853
(441648)	17.2	43.74898	200.66123	62.16609	7.59828	0.0754468	2.4904041342853
(441649)	17.8	272.79909	348.22157	55.35361	5.75184	0.1614769	2.4583176342854
(441650)	17.5	348.22397	175.55435	176.72226	2.14906	0.2388196	2.3278362342854
(441651)	18.1	294.88439	222.39228	156.66818	2.03267	0.1946164	2.4448594342854
(441652)	18.0	341.60202	350.92184	12.23500	4.47620	0.2225459	2.3430052342854
(441653)	17.6	309.91762	311.68340	81.51783	5.14108	0.2304851	2.4068838342854
(441654)	17.9	289.68144	8.85238	37.21761	2.99761	0.1775435	2.3756935342855
(441655)	17.4	186.40415	21.82218	100.54626	7.23827	0.1523554	2.5340111342855
(441656)	17.8	357.14287	214.90526	88.50260	2.89323	0.1900280	2.4260427342855
(441657)	18.0	263.41761	12.99477	59.06520	4.03043	0.2084536	2.4656405342855
(441658)	16.5	228.93504	312.88921	116.57599	22.81023	0.0722181	2.6524332342855
(441659)	17.5	131.13669	238.50216	245.43470	20.81005	0.0735200	1.9111301342856
(441660)	17.1	324.79115	352.08720	345.59571	5.98261	0.1572373	2.4428599342856
(441661)	17.5	306.77766	309.42746	57.16607	3.42474	0.1833749	2.4430254342856
(441662)	16.3	298.95708	68.59125	270.47116	14.42900	0.1463729	2.5593383342856
(441663)	16.8	222.26720	319.15329	110.67795	22.96229	0.0298768	2.6637561342857
(441664)	16.0	204.02507	328.24250	92.48691	15.27865	0.1698991	2.6454074342857
(441665)	17.8	295.82578	279.06837	112.95657	2.20807	0.1899480	2.4173680342857
(441666)	17.6	295.92226	147.70132	266.88497	3.98119	0.1851452	2.3824166342858
(441667)	15.7	322.70592	12.91474	26.90033	2.87814	0.2849018	3.9380515342858
(441668)	16.3	194.23760	339.82070	88.98012	22.74958	0.0405544	2.6411951342858
(441669)	18.7	308.26869	114.65968	267.14979	3.54675	0.1964372	2.3904542342858
(441670)	18.3	287.49368	11.78621	38.82452	3.16408	0.1690844	2.4083460342858
(441671)	17.1	5.52585	280.08598	44.51373	5.99315	0.2190533	2.3901009342859
(441672)	17.6	222.69449	37.86834	44.49623	3.07479	0.0256954	2.5222139342859
(441673)	17.2	244.21604	326.45674	129.45612	8.67641	0.1477498	2.5604619342859
(441674)	17.8	302.27974	167.46146	226.57132	0.79371	0.1987511	2.4511079342859
(441675)	16.9	241.56441	112.93268	330.98507	4.45133	0.1606614	2.4678802342860
(441676)	17.6	268.10238	353.15327	77.65594	3.39688	0.1559748	2.4220313342860
(441677)	17.9	316.85204	244.12939	130.10878	7.32103	0.1844333	2.4009098342860

(441678)	17.9	311.84722	283.07392	112.24135	6.91691	0.1206248	2.4399141342860
(441679)	17.8	315.06220	71.80458	289.63125	8.32965	0.0780865	2.5640286342860
(441680)	17.0	287.82406	270.80989	120.04873	15.82040	0.1672899	2.5421409342861
(441681)	18.0	329.77444	246.68286	129.49676	2.16772	0.1579633	2.3596165342861
(441682)	17.2	188.74295	33.62704	86.59568	4.35796	0.1884209	2.6011201342861
(441683)	17.5	347.84633	36.50743	311.09550	4.55380	0.2031071	2.4540913342861
(441684)	17.9	295.15519	16.27326	11.58438	3.01446	0.2006924	2.5157321342862
(441685)	17.7	271.34408	308.95546	112.10509	2.32683	0.1693660	2.4719359342862
(441686)	16.9	179.52581	176.56579	293.99907	10.94796	0.0067037	2.6536716342862
(441687)	16.3	77.35431	299.29484	299.48272	13.15159	0.0562527	2.6098384342862
(441688)	17.4	272.75090	276.42915	115.48594	8.43833	0.1650295	2.5594445342863
(441689)	17.1	13.22680	179.10948	114.38089	15.70062	0.1009984	2.6165855342863
(441690)	17.9	293.87342	319.17520	113.66588	7.77220	0.1600663	2.4177069342863
(441691)	16.2	51.10979	316.36097	303.61592	28.22132	0.0995938	2.6498639342863
(441692)	17.5	244.71604	327.58248	98.32223	4.37025	0.1590571	2.5433532342864
(441693)	17.5	174.75867	34.98416	121.12642	8.39877	0.0931408	2.5499191342864
(441694)	17.4	326.21399	275.34402	86.65449	3.45385	0.2281967	2.4693432342864
(441695)	17.4	316.01920	232.76499	119.12964	2.98418	0.1899730	2.4509725342864
(441696)	17.5	335.52683	185.00440	170.22733	3.22896	0.2371586	2.4489965342865
(441697)	17.9	60.82382	308.10677	281.87960	19.18240	0.0578286	1.8977258342865
(441698)	16.6	102.85607	5.86079	138.55287	15.22814	0.0595209	2.9182604342865
(441699)	17.7	293.73117	257.27344	132.32135	1.63199	0.1434129	2.5298510342865
(441700)	18.1	243.18462	97.67130	346.57261	4.00907	0.1816638	2.5303851342865
(441701)	18.0	121.94954	71.71471	110.80581	24.07126	0.0441385	1.8704965342866
(441702)	17.7	227.33380	157.40835	284.72468	2.96005	0.1573348	2.5650033342866
(441703)	16.8	146.83754	236.91182	277.96140	13.28438	0.0817532	2.6376994342866
(441704)	17.4	263.21985	147.41993	289.42878	10.35352	0.1969836	2.4711858342866
(441705)	17.5	299.24018	279.58134	96.52069	1.52163	0.1371623	2.5364667342867
(441706)	17.5	61.92122	338.31650	265.14741	1.20530	0.0638721	2.6407876342867
(441707)	17.6	290.85305	255.33194	151.72252	2.38357	0.1707834	2.4696435342867
(441708)	17.1	72.84714	283.32421	307.49225	9.53303	0.1655396	2.7096981342867
(441709)	17.9	245.91587	181.60405	262.54277	4.68473	0.1132348	2.5483546342867
(441710)	17.1	222.37354	271.71590	130.12784	5.29670	0.0682611	2.7543989342868
(441711)	17.2	290.00878	86.91660	330.08631	11.62145	0.2088509	2.4255520342868
(441712)	16.3	330.42173	74.59840	267.86049	11.14522	0.0281604	2.5922092342868
(441713)	16.6	138.90394	43.07459	100.25882	22.51583	0.0412049	2.7130291342869
(441714)	17.1	218.81823	183.66593	282.37601	11.43551	0.1043230	2.5642645342869
(441715)	16.4	157.41049	205.77489	309.95833	13.13952	0.1460702	2.6688285342869
(441716)	17.1	250.63964	293.70121	146.16201	12.96238	0.1481110	2.5626678342869
(441717)	18.0	332.24202	182.81144	115.26626	24.87890	0.0755418	1.9198903342870
(441718)	17.5	97.31671	233.26064	329.97303	5.83379	0.0291440	2.6809538342870
(441719)	17.3	77.34189	147.57556	91.42653	3.56291	0.0799693	2.6489392342870
(441720)	17.6	261.68981	296.21934	106.51590	3.02250	0.1395975	2.6110649342870
(441721)	17.7	294.97010	295.65998	108.21106	3.08086	0.1245639	2.5135903342870
(441722)	17.5	82.70771	121.98466	110.65420	5.21649	0.0442285	2.6377970342871
(441723)	17.1	170.81647	165.59078	318.93222	5.66697	0.0445819	2.6852655342871
(441724)	17.4	301.78207	74.39409	311.86879	13.77998	0.1357935	2.5303272342871
(441725)	17.0	252.62949	263.95321	119.45726	6.61255	0.1462006	2.6948557342871
(441726)	17.4	247.30678	100.43743	316.61615	13.15549	0.0460907	2.6465965342872
(441727)	17.2	52.16327	115.24388	121.76093	8.85883	0.1544693	2.7839471342872
(441728)	16.7	240.22525	140.99351	309.19652	12.98544	0.1223176	2.5679063342872
(441729)	17.2	280.72181	83.69066	291.08032	4.78750	0.0791012	2.6986974342873
(441730)	17.0	303.35349	303.06103	144.55002	6.99901	0.1058487	2.3782474342873
(441731)	17.4	206.22388	358.75505	116.95595	14.53754	0.0982377	2.5694430342873
(441732)	16.7	241.21349	85.85372	353.13605	8.94220	0.1403381	2.5506144342873
(441733)	17.6	76.46590	244.27902	329.20084	17.92351	0.0355302	1.9153900342874
(441734)	16.9	175.48586	177.68496	309.32169	11.17419	0.1087505	2.6741556342874
(441735)	17.3	106.72405	48.94062	137.54772	5.12821	0.0465797	2.7152543342874
(441736)	17.1	131.33639	246.95981	305.61518	3.34605	0.1348003	2.6439512342874
(441737)	16.7	120.63409	187.42325	9.74220	7.62620	0.1708220	2.7060571342875
(441738)	18.0	18.51079	124.49403	165.96980	21.71779	0.0765815	1.9374640342875
(441739)	17.0	40.42693	335.36408	232.79745	1.22015	0.1588870	2.9762015342875
(441740)	17.5	302.46636	226.42113	153.51796	6.19777	0.2629002	2.5294289342875
(441741)	17.3	100.47710	89.08744	98.51942	3.41999	0.0874416	2.8125914342876
(441742)	17.9	302.31900	78.46294	307.58377	3.91509	0.0961925	2.5168415342876
(441743)	17.0	232.72699	119.80333	312.91934	5.68938	0.0623627	2.6345982342876
(441744)	16.7	307.27928	174.30656	147.89965	5.33194	0.1098305	2.7691052342876
(441745)	17.0	355.88062	182.64986	142.53828	4.54536	0.0462602	2.6075326342876
(441746)	16.8	97.29333	57.27975	130.60685	13.21734	0.1316542	2.7827431342877
(441747)	17.0	264.26517	111.79595	323.07913	7.87593	0.0872995	2.5828819342877
(441748)	16.7	34.23497	92.49853	153.73099	19.18824	0.1860367	2.9054091342877
(441749)	17.1	238.71134	275.11465	159.54143	9.47173	0.1205573	2.6600489342877
(441750)	16.5	56.87363	321.67850	287.89321	7.49324	0.1043178	2.7377399342878
(441751)	16.9	3.86862	141.99462	139.22430	9.85432	0.2135232	2.7803859342878
(441752)	16.9	224.87350	332.31009	111.16425	6.49321	0.0505664	2.6371157342878
(441753)	17.6	227.50656	8.71964	93.91005	5.08717	0.1642098	2.5541690342879
(441754)	17.3	268.72054	75.88520	286.17004	4.95138	0.1552316	2.5689784342879
(441755)	17.6	352.19634	121.56465	140.88883	37.46914	0.0533235	1.9738323342879
(441756)	17.3	169.00018	139.63683	348.53681	4.72090	0.1220507	2.7385880342879
(441757)	17.1	270.65429	91.43725	309.43064	12.55903	0.0991431	2.6088068342879
(441758)	16.6	43.60847	310.90093	311.90579	9.82260	0.1994145	2.7380907342880
(441759)	17.7	290.55583	73.68444	359.23071	1.97987	0.1830673	2.4612584342880
(441760)	16.3	1.61500	86.96657	139.98729	17.36365	0.1797371	3.1247368342880
(441761)	17.1	84.54023	125.19455	81.84786	5.23539	0.1524795	2.7613751342880
(441762)	17.5	94.62062	60.45378	158.05816	23.41005	0.0755742	1.9047475342881
(441763)	17.2	41.66712	72.38723	140.01176	11.28784	0.1101446	2.8919036342881
(441764)	16.7	278.46992	304.81214	126.44077	8.04766	0.1825346	2.5285288342881
(441765)	17.4	225.22048	123.60261	330.55428	9.00960	0.1664014	2.5866736342881
(441766)	16.9	115.31959	44.15596	128.02994	14.07145	0.1137142	2.7580453342882
(441767)	17.7	243.00657	290.90339	140.85135	4.40743	0.1999269	2.5839138342882
(441768)	17.3	208.23448	323.49639	131.91647	3.87883	0.1243297	2.6947536342882
(441769)	16.6	176.04170	125.51528	11.12467	14.55739	0.0792788	2.7039690342882
(441770)	16.9	300.15217	32.00045	335.81364	5.70099	0.0262846	2.7130389342883
(441771)	18.0	126.28773	155.02644	27.42990	6.25161	0.0853120	1.9118455342883
(441772)	16.9	234.11847	314.10338	122.41972	5.45467	0.0620881	2.6241274342883
(441773)	16.7	211.31631	161.60915	330.81500	13.96563	0.0960011	2.6022635342883
(441774)	16.5	68.40858	324.34295	178.35205	14.64335	0.2390982	3.1636157342884
(441775)	17.0	232.32370	290.04643	169.53918	12.65070	0.1245618	2.6665341342884
(441776)	16.6	195.54150	324.54738	140.56947	14.28379	0.1335318	2.6777292342884
(441777)	15.6	101.85329	229.06140	352.61618	24.30401	0.1786978	2.7521024342884
(441778)	16.5	142.54407	353.84923	159.22703	18.00921	0.1679153	2.7567219342885
(441779)	16.7	19.63330	61.37052	172.01681	2.70929	0.1436543	3.0709981342885
(441780)	16.8	310.25865	234.85147	173.83787	9.14634	0.0863317	2.5823756342885
(441781)	17.6	82.38184	215.01621	7.79273	4.60260	0.0994269	2.7738272342885

(441782)	17.1	170.60927	6.59231	146.19034	13.30090	0.0954634	2.6983798342886
(441783)	16.4	94.13456	276.52245	314.18410	9.05719	0.1497054	2.7057765342886
(441784)	17.1	229.65948	324.70454	125.44271	11.50327	0.2259200	2.5975906342886
(441785)	16.9	104.78584	234.12544	351.74885	14.32982	0.0561797	2.6817468342886
(441786)	16.8	299.30396	344.63563	33.43777	6.58057	0.0604749	2.7462195342886
(441787)	17.8	35.45294	36.43662	195.06229	2.56413	0.2351120	3.0128087342887
(441788)	16.9	191.99497	125.78895	357.90151	9.00963	0.0274049	2.7635071342887
(441789)	16.6	32.91660	140.04021	77.99441	1.67796	0.1034093	3.0758118342887
(441790)	16.6	251.02694	3.14179	67.86897	7.81526	0.2453088	2.5572838342887
(441791)	17.4	188.50712	105.74020	19.13386	3.92236	0.1067755	2.6888100342888
(441792)	16.8	357.73415	342.89945	335.76169	10.59475	0.0234373	2.7149387342888
(441793)	17.3	94.75054	46.72467	175.06851	13.32426	0.1232714	2.7766224342888
(441794)	17.1	216.21956	335.02007	107.99102	3.22817	0.0284250	2.8628628342888
(441795)	17.9	236.74266	268.95347	177.57697	23.10552	0.0755174	1.8820922342889
(441796)	16.9	246.62353	1.60335	94.05892	6.04000	0.1974836	2.5518433342889
(441797)	16.5	273.97278	242.87954	164.10226	14.47761	0.0970093	2.6941676342889
(441798)	16.4	33.26374	140.99167	76.39316	4.39670	0.1355959	3.0578262342889
(441799)	16.8	219.59459	35.32765	83.60071	5.43373	0.1346291	2.6118071342890
(441800)	16.5	16.35869	98.30337	169.55678	15.24739	0.3475629	3.0597580342890
(441801)	16.9	344.49390	271.39662	66.07022	6.94384	0.0567219	2.7772195342890
(441802)	17.0	29.38769	69.64040	190.66722	6.34547	0.1815523	2.9820967342890
(441803)	17.0	153.76291	137.02212	30.68418	8.74680	0.1110915	2.7909374342891
(441804)	15.9	19.57040	152.21165	128.32081	11.60558	0.3259466	3.0489054342891
(441805)	16.6	199.56271	106.96261	31.14564	11.98886	0.1336722	2.6812442342891
(441806)	16.6	34.18122	54.48271	189.66436	17.59904	0.1999339	3.0781694342891
(441807)	16.0	9.34657	232.79614	68.58704	14.95266	0.2689251	3.0344441342892
(441808)	16.5	93.49460	92.86646	102.04426	12.73238	0.0974831	3.0120977342892
(441809)	16.3	28.89753	242.46556	82.51360	7.80094	0.1459073	2.8123794342892
(441810)	17.1	68.30417	216.67207	61.12541	2.50451	0.0987314	2.7740055342892
(441811)	16.9	2.78803	227.09346	84.42529	2.61576	0.2943774	3.0854331342892
(441812)	16.2	39.85643	171.94870	80.28639	13.61910	0.0910458	3.0188309342893
(441813)	16.8	21.96761	147.66198	122.32112	9.94904	0.2082266	3.0781077342893
(441814)	16.1	346.05262	223.91210	93.90426	11.31301	0.0922363	3.0136600342893
(441815)	15.4	120.70671	269.68644	224.74902	31.10227	0.0093169	3.2286772342893
(441816)	16.1	212.69882	253.90218	165.93339	15.18202	0.1179390	3.1053867342894
(441817)	15.4	26.83885	139.03866	110.92964	23.33977	0.1765411	3.1371877342894
(441818)	15.4	51.87040	315.76674	292.29437	25.95190	0.2079194	3.1776449342894
(441819)	15.7	10.77965	266.31347	65.03250	25.80776	0.3692109	3.1639218342894
(441820)	15.5	5.49769	31.30332	305.93984	19.31077	0.1487289	3.1943816342895
(441821)	15.7	317.19941	116.03711	298.77140	21.11020	0.2955158	3.1846970342895
(441822)	15.8	15.44962	115.58600	234.32125	10.07152	0.0961159	3.0760071342895
(441823)	22.1	325.65114	188.71075	145.80596	8.55542	0.2381688	1.5950919342895
(441824)	15.7	48.43650	82.72996	210.20783	16.12787	0.2295700	3.1750683342896
(441825)	18.3	4.19171	104.47496	184.40352	30.81758	0.2228535	1.6110729342896
(441826)	16.2	286.57145	265.93987	175.80098	9.42569	0.0528911	3.1670567342896
(441827)	18.3	237.26056	321.99435	110.21376	3.52772	0.1210093	2.1857981342896
(441828)	16.6	343.01366	348.14956	22.79284	0.78241	0.2446129	3.2584261342897
(441829)	15.4	19.25380	138.75191	221.62849	25.84731	0.2074388	3.1583490342897
(441830)	18.0	162.93723	27.23739	102.89311	3.93783	0.0971558	2.2345232342897
(441831)	18.9	350.33904	128.02019	175.14253	2.52438	0.1132464	2.1385654342897
(441832)	19.0	358.74897	132.79443	156.71346	5.14318	0.2126159	2.1486474342898
(441833)	15.7	289.84939	328.17642	49.05827	3.76756	0.0194144	3.8508742342898
(441834)	17.7	228.99883	320.72695	74.00002	7.11524	0.1138119	2.2810678342898
(441835)	15.9	0.30736	305.04273	28.69240	10.04497	0.0795765	3.5094021342898
(441836)	17.9	207.52518	63.58075	30.27735	5.09321	0.0837742	2.2220948342899
(441837)	18.4	300.72164	43.67523	324.60814	4.65357	0.1607553	2.1639000342899
(441838)	17.4	23.57003	267.33627	327.45513	1.59170	0.0861293	2.3304589342899
(441839)	15.6	252.73346	199.79501	228.86527	2.97781	0.1759547	3.9919501342899
(441840)	18.2	244.16819	62.47966	10.50636	4.58818	0.0810147	2.2024041342900
(441841)	18.5	355.90937	32.64421	277.18263	2.86660	0.1695720	2.1678408342900
(441842)	17.4	143.51404	199.69157	271.73237	4.10283	0.0738788	2.3665887342900
(441843)	18.1	71.23062	335.29089	238.97324	5.23175	0.1271996	2.2514123342901
(441844)	17.6	155.89214	51.91770	81.72128	6.44356	0.1308334	2.2946673342901
(441845)	15.9	288.83801	313.25646	58.35276	3.05999	0.0377964	3.9016218342901
(441846)	17.9	115.91744	24.31884	107.87173	3.81507	0.1227266	2.4187827342901
(441847)	17.6	333.20528	41.46369	264.48937	6.81725	0.2090941	2.2802338342901
(441848)	14.7	244.21982	240.52678	206.27705	10.07814	0.2120959	3.9445579342902
(441849)	18.0	267.44418	119.72580	301.31798	3.31443	0.1224670	2.1956321342902
(441850)	17.9	248.10261	37.35562	17.96779	3.93030	0.1703514	2.2500023342902
(441851)	15.2	267.32685	338.64733	81.72482	4.86726	0.2002336	3.9330969342902
(441852)	18.3	310.52549	276.04688	71.84705	5.70225	0.1329739	2.2419616342903
(441853)	18.5	312.43321	289.41314	71.18704	4.52976	0.2071954	2.1678079342903
(441854)	18.0	193.85791	40.20000	65.97834	3.45597	0.1074828	2.2599201342903
(441855)	18.7	322.65758	140.91158	220.37008	4.06183	0.2178706	2.1388387342903
(441856)	17.4	103.83355	74.67005	77.09937	7.58484	0.0554756	2.3784021342904
(441857)	18.5	266.10834	134.00420	249.97672	7.85169	0.2394027	2.2385788342904
(441858)	18.2	156.87014	262.82860	239.19856	6.54838	0.0594679	2.2390515342904
(441859)	18.2	305.00291	79.50074	285.73048	4.34788	0.1596389	2.1788163342904
(441860)	17.5	19.08048	28.49861	250.36602	4.44972	0.2367044	2.2311080342904
(441861)	18.3	289.64552	318.14056	64.85754	4.72065	0.1698132	2.1941269342905
(441862)	18.7	296.01762	330.09722	63.91729	2.83119	0.1525899	2.1769389342905
(441863)	17.4	194.20741	191.48560	272.60377	6.39430	0.1940811	2.3086208342905
(441864)	17.7	193.91923	30.17906	86.26150	5.78890	0.1142425	2.2573960342905
(441865)	17.4	63.90355	265.82535	258.05864	3.88561	0.1782436	2.6176481342906
(441866)	18.1	260.57644	345.35931	68.74411	3.65180	0.1460251	2.2582325342906
(441867)	17.8	141.73855	173.42742	333.02915	4.69157	0.1260935	2.3979369342906
(441868)	17.4	145.43327	48.25595	96.66063	7.06029	0.0718771	2.3575707342906
(441869)	17.5	211.33713	350.81447	105.67266	8.42195	0.0620594	2.3111290342907
(441870)	18.2	130.67879	108.48806	71.74994	2.34876	0.1167473	2.3689231342907
(441871)	17.8	183.45676	158.09095	320.10555	6.11691	0.1622698	2.3838703342907
(441872)	17.2	229.47571	297.21933	113.89748	22.94084	0.2336767	2.3152707342907
(441873)	18.0	132.99372	122.75444	48.19159	3.04811	0.1352330	2.4199314342907
(441874)	18.0	245.36637	61.02018	18.95468	5.60047	0.1352176	2.2531202342908
(441875)	15.9	43.25691	272.61968	332.47028	21.66384	0.3937178	2.7205095342908
(441876)	17.0	307.33357	247.96698	116.99044	12.56854	0.1201003	2.5193588342908
(441877)	17.0	29.87979	58.04532	222.66163	13.52987	0.1370883	2.5718557342909
(441878)	16.5	5.61759	47.73094	218.71848	18.11786	0.2736301	2.7755103342909
(441879)	17.3	56.66709	347.27119	247.14264	6.63399	0.0638102	2.6328252342909
(441880)	16.0	358.97708	22.87048	307.84640	30.56343	0.1791630	2.5890360342909
(441881)	17.0	209.49624	312.15160	150.72529	22.63335	0.2106481	2.3357480342910
(441882)	17.0	133.49173	288.98020	267.65144	9.36589	0.0434136	2.5227525342910
(441883)	17.9	127.27993	57.48947	110.20350	4.12168	0.0698476	2.3970115342910
(441884)	17.7	257.33983	118.32643	314.58607	5.87097	0.0808733	2.3006594342910
(441885)	17.2	52.98906	231.07050	328.44079	1.61833	0.0669626	2.6447109342911

(441886)	17.2	21.98198	121.55234	155.27034	14.05084	0.1879160	2.5549281342911
(441887)	17.3	39.52060	258.57416	353.89780	9.63502	0.0564043	2.5326021342911
(441888)	17.2	14.14629	283.61972	343.97632	10.75311	0.1971603	2.5964197342911
(441889)	17.6	11.36561	111.97346	141.43884	11.89099	0.1557194	2.6118228342912
(441890)	17.4	37.64369	300.74200	330.88746	9.25485	0.1289403	2.4422479342912
(441891)	17.5	107.79369	26.63552	183.44662	7.48347	0.0684485	2.4145795342912
(441892)	17.0	105.55106	10.73724	134.31904	7.33699	0.1034144	2.6065722342912
(441893)	17.5	48.90529	258.34309	322.51944	4.60022	0.1765042	2.6003003342912
(441894)	16.9	317.96009	51.26433	313.59485	27.11107	0.1502079	2.6263249342913
(441895)	16.3	144.61072	62.61591	118.97874	24.73273	0.1100036	2.5457996342913
(441896)	17.1	54.35865	59.07087	174.44612	15.57663	0.1551067	2.5949375342913
(441897)	17.1	53.96587	227.04863	359.38587	12.76366	0.1200351	2.5854057342913
(441898)	16.6	50.73060	220.44621	3.68682	13.31666	0.2117424	2.6592944342914
(441899)	17.8	57.57218	88.06683	145.00207	4.88230	0.0434485	2.5256976342914
(441900)	17.1	81.70791	178.62453	19.85110	12.58239	0.1277222	2.6007894342914
(441901)	17.2	79.12052	201.16941	11.21076	12.57983	0.1581586	2.5917236342914
(441902)	17.5	58.91800	94.21375	125.30239	4.77048	0.0828074	2.5931927342915
(441903)	17.6	51.66590	214.06113	36.33448	4.58549	0.0168988	2.4770621342915
(441904)	17.8	358.59740	25.08847	260.21650	1.24948	0.1870350	2.6323682342915
(441905)	16.9	224.06849	156.74259	318.47565	10.39483	0.1489551	2.3231097342915
(441906)	17.0	54.77804	219.94827	357.10482	13.30845	0.2024848	2.6866871342915
(441907)	17.0	10.74957	77.56365	210.65591	12.17107	0.2627029	2.6875129342916
(441908)	16.7	49.84910	22.34607	193.97290	17.46577	0.0677448	2.6884125342916
(441909)	17.4	47.88834	123.28748	110.66560	12.79124	0.2533222	2.6410873342916
(441910)	16.7	57.38001	118.93031	99.97466	12.95294	0.1287910	2.6088922342916
(441911)	17.2	59.16679	76.42450	161.81800	10.79519	0.0766339	2.5367193342917
(441912)	16.7	53.00553	142.88901	75.00269	12.85049	0.2436819	2.6991511342917
(441913)	17.8	47.82605	260.16689	359.06889	2.55231	0.0722918	2.5473965342917
(441914)	15.8	49.45027	80.99247	88.66640	15.75950	0.0920774	2.8534257342917
(441915)	15.4	349.74632	192.05788	69.96826	16.41409	0.0168718	3.1342286342918
(441916)	16.9	60.55890	231.10543	12.31211	3.91297	0.0372246	2.5946577342918
(441917)	16.6	8.14372	134.10210	151.83648	11.50984	0.1545801	2.7038889342918
(441918)	17.5	17.36872	137.75488	149.25155	6.69867	0.2394158	2.6903196342918
(441919)	17.2	95.40762	326.05815	194.45544	12.96013	0.0977897	2.6683073342919
(441920)	16.8	32.39996	91.47838	155.06745	14.06080	0.2186947	2.7142500342919
(441921)	16.5	354.43922	274.57113	94.31559	17.70475	0.3508042	2.7506039342919
(441922)	16.1	290.17083	83.84151	260.91756	14.65356	0.1411618	3.1213975342920
(441923)	15.9	81.10463	33.89579	131.49402	21.94656	0.1227986	3.1607508342920
(441924)	17.3	358.82075	25.13945	236.34321	2.86626	0.1381270	2.8457605342920
(441925)	16.6	61.10537	344.71269	255.50449	15.77451	0.1878528	2.6366579342920
(441926)	16.6	340.47001	175.73179	190.05241	10.85729	0.2907598	2.8432320342920
(441927)	16.9	174.68503	6.52923	128.22795	12.35727	0.1215440	2.5777357342921
(441928)	17.2	58.09874	103.53532	139.85065	13.17144	0.2161275	2.6270361342921
(441929)	16.8	108.57499	103.08450	88.71781	13.11202	0.2278832	2.5845826342921
(441930)	17.5	6.35920	222.30304	80.70155	3.73036	0.1731744	2.6711477342922
(441931)	16.5	38.88415	176.35765	88.54111	10.74924	0.0793947	2.6598172342922
(441932)	17.7	76.96678	74.02312	151.89192	4.92238	0.1305745	2.6383920342922
(441933)	17.4	9.53674	97.68678	185.29524	4.80596	0.1695951	2.7535218342922
(441934)	17.2	350.57323	85.30624	223.22949	6.71560	0.2157952	2.7400808342923
(441935)	16.4	129.03698	120.15724	57.95024	12.46104	0.1196772	2.5750272342923
(441936)	17.2	154.37836	89.88285	109.54983	3.49819	0.0420090	2.4374197342923
(441937)	16.9	3.35579	116.19369	186.34414	12.14003	0.1233099	2.6823258342923
(441938)	16.8	22.19572	164.54482	86.82520	3.31389	0.1922393	2.7747802342924
(441939)	15.8	272.73662	234.29183	139.66568	28.44939	0.2115198	3.1830275342924
(441940)	17.0	70.42306	357.31710	215.47912	4.84034	0.0946847	2.6765499342924
(441941)	16.8	341.07363	108.25263	229.27643	13.07897	0.2262271	2.7120494342924
(441942)	16.3	344.72438	27.45460	324.88542	16.56243	0.1692351	2.8628028342925
(441943)	16.8	33.49233	172.05585	94.38662	7.77835	0.2667665	2.7356782342925
(441944)	17.1	30.24363	152.82705	130.58631	9.10202	0.1722950	2.8999754342925
(441945)	15.9	252.50848	90.15398	325.44968	17.80746	0.0580180	3.0391713342925
(441946)	15.8	311.73609	56.54731	309.18248	9.58677	0.0525910	2.9792925342926
(441947)	16.6	11.83953	286.90296	333.84798	5.78111	0.2953108	3.0605842342926
(441948)	16.1	329.18398	49.41770	308.78368	10.92628	0.0763884	2.9498547342926
(441949)	16.8	19.98346	76.62486	194.76400	9.45126	0.2473302	2.7803832342926
(441950)	17.8	309.87778	182.05103	148.17028	21.39793	0.1156875	1.8332164342927
(441951)	16.7	14.26999	3.48820	284.92106	2.77432	0.2280529	2.9833062342927
(441952)	18.3	317.68377	293.83917	114.21282	4.58373	0.6076543	3.0366912342927
(441953)	16.1	301.28752	44.31738	329.05626	15.96153	0.1502090	3.0801935342928
(441954)	16.2	335.12864	333.86587	355.53507	7.79990	0.1514134	3.0711071342928
(441955)	16.2	19.71609	31.68471	259.27809	12.41338	0.1400605	2.9835979342929
(441956)	16.0	278.13505	237.87291	167.94065	13.75308	0.1698985	3.0782566342929
(441957)	16.8	322.82386	179.18487	187.47166	12.45386	0.2611805	3.0146537342929
(441958)	16.8	306.99518	39.73101	331.71395	0.14598	0.1830697	3.0779447342929
(441959)	15.4	68.07804	311.54580	276.92378	17.68349	0.0477879	3.1324689342930
(441960)	17.0	347.51594	167.30546	169.76126	9.87912	0.1256381	2.9761535342930
(441961)	15.6	293.62538	59.58710	312.39834	15.49727	0.1866619	3.1768687342930
(441962)	17.1	333.06612	311.09829	31.84162	0.87198	0.1926989	3.0526845342930
(441963)	16.3	17.68599	323.09286	328.13194	10.31231	0.0942143	3.0510291342931
(441964)	16.4	272.67627	106.73425	293.45360	6.18480	0.1639930	3.1776967342931
(441965)	16.7	341.33079	338.68565	347.98428	4.83943	0.2191076	3.0701346342931
(441966)	16.1	257.14400	271.83043	174.38617	26.11890	0.2152434	3.0537512342931
(441967)	16.6	311.14284	200.46181	174.38418	5.38743	0.1795503	3.0682161342932
(441968)	16.6	351.89108	4.91451	325.63979	8.16007	0.0973483	3.0306268342932
(441969)	16.5	355.00027	358.21403	311.36506	3.44022	0.2120106	3.0724522342932
(441970)	16.1	345.36781	7.07138	324.61982	16.47533	0.1788231	3.0511323342932
(441971)	16.4	302.04649	34.56096	348.62606	8.64920	0.1652061	3.0967032342933
(441972)	16.7	356.44078	124.25901	200.31747	6.97991	0.2191363	3.0016127342933
(441973)	15.5	285.08164	107.96100	304.15943	16.30313	0.2205013	3.0978968342933
(441974)	16.7	330.99267	17.97540	342.88018	8.46493	0.1643001	3.0206525342933
(441975)	15.8	15.01824	10.44947	288.47842	17.59458	0.0810761	3.0815284342934
(441976)	16.4	283.76509	24.48668	20.64833	6.05399	0.2422841	3.1569256342934
(441977)	16.4	343.42544	146.24527	192.37120	17.76538	0.1794817	3.0404061342934
(441978)	16.3	325.30281	179.30683	177.78804	18.31673	0.1608232	3.0788035342935
(441979)	15.7	300.39784	304.15645	76.83472	9.61129	0.2236677	3.1526579342935
(441980)	15.8	30.29644	71.18241	187.10501	18.15353	0.2038542	3.1675237342935
(441981)	16.1	326.08777	89.85819	277.77739	7.89079	0.1655665	3.0421315342935
(441982)	16.3	295.36016	96.30842	332.86533	12.92057	0.2594037	3.0040742342936
(441983)	16.7	315.44419	313.66714	60.90938	7.55963	0.1063999	3.0759982342936
(441984)	15.7	282.06768	55.73370	357.73208	21.90699	0.0424806	3.0547641342936
(441985)	16.6	340.33737	3.57005	343.44791	11.23037	0.2611962	3.0359746342937
(441986)	15.8	280.09982	26.49081	15.25181	10.11610	0.0783252	3.1650201342937
(441987)	21.5	70.62001	251.13361	268.13129	11.73487	0.3696612	0.9977281342937
(441988)	15.7	298.30403	353.51349	28.82186	11.21771	0.0660799	3.1691320342937
(441989)	15.5	329.74472	5.97616	0.15982	16.95221	0.1278838	3.0568568342938

(441990)	15.9	9.33243	330.58197	334.79092	14.88319	0.1284033	3.0673339342938
(441991)	16.2	3.87999	80.72562	248.28173	9.16435	0.0321014	3.0099704342938
(441992)	16.5	18.13284	109.22343	176.26458	21.20330	0.2973540	3.0070863342939
(441993)	16.7	343.41738	125.03009	212.86475	12.11383	0.1647977	3.0795075342939
(441994)	16.3	297.22709	51.86366	321.30590	5.42130	0.1094120	3.2265256342939
(441995)	16.2	309.74493	55.16006	329.80220	8.18747	0.1606672	3.0869806342940
(441996)	15.6	307.52640	94.72420	296.27728	15.53034	0.1538747	3.0840268342940
(441997)	15.5	326.76836	102.05050	268.51218	10.41694	0.0787619	3.0548510342940
(441998)	15.5	336.46258	305.74499	21.04185	16.84037	0.2386329	3.1627645342940
(441999)	15.7	279.01553	230.01034	204.63809	15.41531	0.2473836	3.0994841342941
(442000)	15.8	3.80339	328.83850	356.47999	9.45257	0.0857569	3.0731103342941
(442001)	15.6	274.51412	186.66481	234.57653	13.96088	0.1744114	3.1594858342941
(442002)	16.0	317.03411	75.21093	316.62749	13.58862	0.1324732	3.0234712342942
(442003)	16.0	8.27381	71.48190	248.22150	10.90535	0.1240261	3.0545041342942
(442004)	15.7	269.10643	234.86319	202.00293	11.86678	0.1250821	3.0907099342942
(442005)	16.4	317.48396	81.83470	303.12957	14.39161	0.2213814	3.0636145342943
(442006)	15.4	251.57321	167.15623	285.73299	14.89771	0.1688452	3.1488648342943
(442007)	16.6	312.45099	23.45895	352.26385	12.87911	0.1311069	3.1456624342943
(442008)	16.1	338.98424	325.69229	32.49215	15.71706	0.2168016	3.0355474342943
(442009)	15.6	12.83383	354.34584	288.77772	16.31833	0.2377156	3.1791017342944
(442010)	16.1	323.68965	33.19500	358.62612	13.34745	0.1402435	2.9960243342944
(442011)	15.7	352.92197	45.59184	286.36933	13.46884	0.0560521	3.1490356342944
(442012)	16.3	314.00949	151.15720	215.15286	15.80152	0.1189002	3.1959563342945
(442013)	16.4	272.25180	311.86977	120.19423	6.21572	0.1596287	3.1479690342945
(442014)	16.7	347.46699	127.49351	198.48227	9.52328	0.2292411	3.1329050342945
(442015)	16.3	324.34581	241.74287	124.12122	11.94234	0.1803826	3.1226548342945
(442016)	16.5	343.30341	23.16485	313.44411	9.36917	0.2137222	3.1230929342946
(442017)	15.9	279.89611	342.98824	83.53181	10.48916	0.1334218	3.1176927342946
(442018)	16.3	344.72788	128.78959	215.20155	17.79871	0.0537567	3.1463086342946
(442019)	15.8	5.04828	243.92381	49.46171	25.01380	0.2627066	3.1611695342946
(442020)	16.4	341.78703	312.48705	39.68519	8.10065	0.2573331	3.0562528342947
(442021)	15.9	300.82053	52.71264	345.12013	10.47613	0.1535493	3.1446638342947
(442022)	15.9	287.90830	307.77703	99.31136	10.55774	0.0729359	3.1648013342947
(442023)	16.9	62.41013	305.43172	292.11808	11.31243	0.0906647	2.6267593342948
(442024)	16.5	5.61030	47.41831	265.23962	8.77678	0.1719857	3.1401778342948
(442025)	16.3	309.24449	147.91168	227.87098	8.72639	0.1288577	3.2049684342948
(442026)	16.1	346.55764	329.32299	14.48802	17.37895	0.1555090	3.1111717342948
(442027)	16.6	309.44008	82.28534	286.37645	9.25881	0.1769610	3.0585699342949
(442028)	15.5	16.40402	348.63099	303.50979	14.21022	0.1964641	3.1903365342949
(442029)	15.8	353.04501	87.14979	250.00136	14.94410	0.1083355	3.1260178342949
(442030)	16.5	298.75006	93.31509	314.35703	8.62174	0.2328644	3.1351743342950
(442031)	16.1	328.33920	327.13322	34.39062	9.58711	0.1786478	3.1405877342950
(442032)	16.2	300.11540	199.43711	195.82963	8.95257	0.0819342	3.1670566342950
(442033)	15.9	352.31873	338.15958	5.67239	22.74424	0.1473914	3.0885314342950
(442034)	15.9	289.18385	296.96950	110.98376	10.34957	0.0823505	3.1761396342951
(442035)	16.0	288.89651	68.75476	331.02717	9.26846	0.0972751	2.9897578342951
(442036)	17.5	340.65232	24.34386	281.81996	18.13991	0.0645824	1.8742823342951
(442037)	19.3	1.42990	319.40220	292.82935	17.57068	0.6860802	2.9267968342951
(442038)	15.7	258.38740	92.75305	7.35134	19.13385	0.2646867	3.2121799342953
(442039)	15.8	13.23044	4.91729	319.08934	11.18091	0.0338527	3.0205704342953
(442040)	16.3	350.09037	294.54411	5.06169	8.32670	0.1488962	3.1334684342953
(442041)	16.9	306.40806	29.25533	0.17110	11.75927	0.2086838	3.0040585342953
(442042)	16.1	246.65264	246.59032	196.89973	9.70545	0.0745028	3.0950088342954
(442043)	16.6	4.44163	332.85844	336.27084	4.42574	0.2643358	2.9999535342954
(442044)	17.3	285.07167	101.61514	327.87633	4.66618	0.1544688	2.9811918342954
(442045)	16.4	314.41910	58.31810	293.30175	7.11073	0.2069858	3.0741002342954
(442046)	16.7	304.41036	225.48131	192.88264	4.64370	0.0283934	2.7750723342955
(442047)	16.6	347.14316	11.62514	345.80409	9.23216	0.0666535	2.8880138342955
(442048)	16.6	324.30855	26.71945	327.36033	9.31841	0.0686877	2.9816049342955
(442049)	16.7	313.96821	260.33962	185.76731	12.95299	0.1584374	2.7508877342955
(442050)	16.5	297.71072	38.69615	355.82702	4.96534	0.1506667	3.0830549342956
(442051)	15.5	240.75769	91.09490	8.92023	15.71865	0.2077536	3.1597117342956
(442052)	16.3	1.64159	329.18187	325.74460	5.36509	0.2718152	3.0617829342956
(442053)	16.3	299.76120	45.59185	328.14480	9.25716	0.0921648	3.1036878342956
(442054)	15.9	310.20249	29.30442	342.15852	14.81071	0.0591568	3.0423803342957
(442055)	15.7	71.36360	246.10793	357.00303	8.51158	0.0347927	3.1749486342957
(442056)	16.2	320.28045	163.95186	195.84969	12.84768	0.1303711	3.1483555342957
(442057)	15.5	338.26008	337.41790	345.02991	15.68592	0.0679129	3.1990655342957
(442058)	16.0	296.56442	3.97641	17.15923	12.21960	0.0371956	3.1979215342958
(442059)	17.0	343.44450	150.93793	182.58344	1.71840	0.0984657	3.0895826342958
(442060)	16.0	156.98392	148.61238	11.63781	9.35991	0.0335357	3.1454134342958
(442061)	16.5	18.94186	314.35832	337.81211	9.97689	0.1451727	3.0959255342958
(442062)	16.2	30.72982	295.89505	346.35629	9.10266	0.0619449	3.1602367342959
(442063)	16.6	23.59650	268.12252	353.39027	3.30278	0.1644502	3.1039944342959
(442064)	16.6	358.44894	119.31674	179.23613	10.61067	0.2831292	3.0564635342959
(442065)	16.4	332.69520	307.15746	35.55876	9.79530	0.1110275	3.1590061342959
(442066)	16.3	326.81012	5.38747	347.44245	10.07512	0.1041035	3.1056119342960
(442067)	15.7	61.13586	46.18357	203.01437	16.62899	0.1577550	3.1056518342960
(442068)	16.3	332.75658	354.71141	354.47087	8.80721	0.0692936	3.1135166342960
(442069)	16.5	133.19479	216.84135	337.89753	8.86202	0.0051000	2.9984312342960
(442070)	16.5	299.28548	36.93535	339.78470	8.71989	0.1198339	3.1070634342961
(442071)	17.5	329.21518	312.12458	37.07936	0.97655	0.1809037	3.0837067342961
(442072)	15.7	156.26924	114.19341	41.32735	9.08973	0.0317756	3.2447443342961
(442073)	16.8	346.42527	244.98899	76.47120	3.49308	0.1823251	3.1409059342961
(442074)	16.3	305.92425	46.58957	308.24772	9.44934	0.1167556	3.1043390342961
(442075)	16.4	297.08451	86.71469	312.10338	9.05099	0.1533497	3.0217365342962
(442076)	16.3	321.00707	39.32101	319.11811	4.55120	0.1620535	3.1058329342962
(442077)	16.5	311.24352	23.74519	352.59481	8.89001	0.1105744	3.1034566342962
(442078)	16.6	341.11213	286.79316	39.02066	9.92891	0.2648021	3.1130463342962
(442079)	16.1	349.69542	169.57213	139.67438	1.89361	0.1673677	3.1135283342963
(442080)	16.6	69.19468	254.07231	341.27031	9.29159	0.0947198	3.0574232342963
(442081)	16.1	301.87944	53.51060	331.83791	8.53825	0.1009568	3.0349776342963
(442082)	16.5	338.67168	130.35978	202.62891	10.67885	0.0964976	3.1508099342964
(442083)	17.1	325.52180	173.85880	185.56107	0.27888	0.1748870	3.0827618342964
(442084)	16.8	318.79485	259.75204	117.10734	2.81606	0.1130720	3.0685028342964
(442085)	16.1	301.57052	39.03469	358.02121	16.89179	0.2247629	3.1005158342964
(442086)	17.1	80.34238	278.40694	288.11596	17.48885	0.0432705	1.9291135342965
(442087)	16.1	289.45318	115.84928	289.50607	8.55661	0.1725956	3.0969979342965
(442088)	16.7	306.02692	348.48063	37.63622	5.38845	0.1437026	3.1059031342965
(442089)	16.7	5.23917	103.88988	196.37251	9.27140	0.0982792	3.1294806342965
(442090)	16.2	267.71740	63.24004	359.00288	8.64760	0.1142485	3.1426309342966
(442091)	16.5	304.48412	18.93749	356.64894	9.32311	0.0816504	3.0959143342966
(442092)	16.4	53.70235	56.75706	197.68081	16.91233	0.0969538	3.1133864342966
(442093)	17.1	281.01285	220.27273	205.31196	8.28311	0.2264442	3.0656528342966

(442094)	16.5	266.35502	40.20228	36.35819	8.99068	0.1245075	3.1133143342967
(442095)	16.8	327.03967	178.18269	184.15284	2.38967	0.1523498	3.0598940342967
(442096)	17.3	287.19470	305.55298	112.48401	2.42042	0.1562807	3.0889503342967
(442097)	16.4	313.36397	160.02902	200.81088	10.40838	0.0978444	3.1212765342967
(442098)	16.2	196.33166	162.53581	345.95718	8.68888	0.0588749	2.9884670342967
(442099)	15.8	352.26898	316.97369	356.50910	8.77171	0.0768830	3.1685451342968
(442100)	16.6	259.59467	235.07198	202.73250	9.38348	0.0759049	3.0711998342968
(442101)	16.6	328.13890	302.44070	50.08790	1.46921	0.1872004	3.1053788342968
(442102)	16.9	349.69496	127.19667	186.60102	4.73843	0.1539701	3.1784565342968
(442103)	16.4	28.26065	244.10734	24.15750	9.51839	0.2009865	3.1263826342969
(442104)	17.3	306.44954	219.52638	154.67303	1.70223	0.1747516	3.1213900342969
(442105)	17.6	331.76830	324.92431	24.86419	3.40374	0.1649722	3.0697556342969
(442106)	16.5	316.41990	343.06106	24.73250	9.08728	0.0982315	3.0984523342969
(442107)	16.1	299.65974	171.06566	233.95013	9.99277	0.1425775	3.0873858342969
(442108)	16.3	298.17437	258.25691	135.81881	6.45403	0.1968209	3.1078369342970
(442109)	17.1	343.06545	99.81095	240.38586	5.65412	0.2970218	3.0742882342970
(442110)	16.2	269.09550	90.72742	338.43061	9.08551	0.2219671	3.1381445342970
(442111)	16.3	233.30653	66.93689	37.59240	9.85079	0.0500254	3.0913833342971
(442112)	16.2	154.59887	136.65653	38.38752	5.68619	0.0769927	3.1256846342971
(442113)	17.2	338.68658	206.42908	127.91439	2.03266	0.2101503	3.1119366342971
(442114)	16.8	336.73431	268.78075	73.42915	2.62833	0.0248043	3.1648700342971
(442115)	15.7	1.76133	43.00913	284.77572	8.11104	0.1020524	3.0986194342971
(442116)	16.2	330.15925	79.57094	280.38403	9.45769	0.0742771	3.0018730342972
(442117)	16.6	330.11671	7.44468	341.16629	8.73111	0.2210339	3.1470091342972
(442118)	16.4	298.97556	14.53781	21.99818	6.99443	0.2841069	3.1692652342972
(442119)	15.7	281.38546	8.22297	63.17113	18.15780	0.2344070	3.0955024342973
(442120)	15.7	343.29516	86.17114	278.47291	14.31551	0.1356398	3.0029873342973
(442121)	15.9	295.31205	85.35860	302.25757	8.51631	0.1427639	3.1462348342973
(442122)	16.6	260.08709	63.33805	12.36624	6.66321	0.1308613	3.1053237342973
(442123)	15.9	47.62052	238.09854	19.34081	11.10985	0.1235639	3.1433954342974
(442124)	16.0	60.26794	243.94980	15.20472	11.80168	0.0248087	3.1200296342974
(442125)	15.6	212.01818	258.45724	218.77720	7.96933	0.0339185	3.1748226342974
(442126)	16.1	241.41378	106.10204	337.09283	8.44083	0.0400740	3.1875393342974
(442127)	17.1	331.64329	324.85565	43.69374	4.60934	0.2643385	3.0319604342975
(442128)	16.6	305.91616	346.56112	49.65868	5.02232	0.2815618	3.1562294342975
(442129)	15.7	351.63183	294.46451	49.72981	13.47132	0.1048492	3.1841192342975
(442130)	16.0	269.55620	81.38790	0.95608	15.79544	0.2361928	3.1747271342975
(442131)	16.4	327.69117	107.36719	254.71653	7.06127	0.1923056	3.1271024342976
(442132)	16.1	353.11838	92.11063	235.91975	15.08829	0.1770334	3.1411672342976
(442133)	18.1	350.84470	95.35573	222.33079	20.03693	0.0956293	1.8822178342976
(442134)	16.8	356.56115	143.65260	187.47266	4.99341	0.1571484	3.0881104342976
(442135)	15.7	332.38861	98.12415	247.83649	9.54993	0.0660619	3.1861543342977
(442136)	16.0	354.60199	332.35493	353.15826	11.19761	0.1339209	3.2018860342977
(442137)	16.1	326.48551	116.72417	242.03522	10.21087	0.1666976	3.1875063342977
(442138)	16.6	328.93533	13.88473	3.41624	4.66063	0.2177339	3.0635669342977
(442139)	15.6	328.47329	139.17110	234.75034	15.84629	0.1344814	3.1405591342978
(442140)	16.8	306.71600	56.23184	342.02201	5.14983	0.1657170	3.1564091342978
(442141)	16.0	319.42566	314.87335	68.59201	10.13046	0.1247852	3.1142833342978
(442142)	16.2	316.79039	43.39786	344.62626	10.17514	0.0875121	3.1171167342979
(442143)	16.4	337.83860	127.35919	236.99553	4.27140	0.1743408	3.0995606342979
(442144)	16.3	313.59162	179.60055	206.84640	9.13407	0.1448966	3.1592833342979
(442145)	15.5	272.68712	160.39984	267.88188	10.05015	0.0622238	3.2152153342979
(442146)	16.1	282.16318	108.45215	313.87004	8.44294	0.0479626	3.1328320342979
(442147)	16.5	237.78091	109.33148	347.87990	10.43871	0.0560316	3.2273065342980
(442148)	18.7	278.34764	104.42908	261.80359	4.71118	0.2183941	1.9557355342980
(442149)	15.9	337.02318	132.47724	221.39974	17.30230	0.2013470	3.1685444342980
(442150)	15.6	324.69348	97.13665	278.27129	8.19413	0.1457958	3.2103883342980
(442151)	16.2	346.21108	325.18009	25.27707	9.71073	0.1021286	3.1693912342981
(442152)	15.7	339.72506	289.52592	79.64996	11.59116	0.1911528	3.0694230342981
(442153)	16.1	10.92062	341.82819	344.04232	6.69006	0.0775466	3.2020838342981
(442154)	16.3	335.57863	76.24834	278.59713	14.84012	0.2473954	3.1187479342981
(442155)	17.3	0.22131	59.96428	242.11598	19.55170	0.0727950	1.9172562342982
(442156)	16.5	335.98548	93.58774	280.98829	12.05041	0.2506033	3.0707530342982
(442157)	16.0	318.21916	332.32187	52.31326	6.27818	0.1432652	3.1607043342982
(442158)	15.4	270.74073	1.55880	84.95891	18.70604	0.1648542	3.1665209342982
(442159)	16.0	319.49751	32.52643	352.12055	9.67311	0.0943543	3.0903534342983
(442160)	16.0	21.58531	316.00654	355.67977	13.88007	0.1293897	3.0750765342983
(442161)	16.2	318.87549	42.42754	328.92023	9.70245	0.1064818	3.1212352342983
(442162)	16.1	216.06099	272.68657	233.95458	10.26817	0.0583684	3.0381830342983
(442163)	16.8	328.41750	93.94401	267.77113	6.74335	0.1545994	3.0899499342984
(442164)	16.3	7.83245	344.83618	343.72968	5.83947	0.0719868	3.0826600342984
(442165)	17.0	301.22572	18.40817	3.27310	1.79404	0.1257766	3.2472800342984
(442166)	16.1	310.40799	131.65695	251.69532	8.42354	0.0899264	3.1220741342984
(442167)	16.7	318.97871	101.06298	276.54368	3.91357	0.2004589	3.1439498342985
(442168)	16.3	336.84318	69.16329	287.48844	7.95405	0.1451393	3.1349846342985
(442169)	16.3	299.32443	43.61452	51.29854	10.91838	0.0732689	2.9829087342985
(442170)	16.1	315.93264	271.00951	132.60576	11.08500	0.2250133	3.0769331342985
(442171)	16.3	288.94054	145.14411	277.85372	12.17735	0.0916185	3.1546681342986
(442172)	17.3	286.80895	140.57914	257.11406	18.52933	0.1016030	1.9129174342986
(442173)	14.3	125.89163	183.85842	264.75470	7.40510	0.0878783	5.1661618342986
(442174)	16.2	314.18632	322.40028	69.73200	6.39761	0.1679482	3.2274400342986
(442175)	15.7	348.11517	237.14659	120.62101	11.46516	0.1090263	3.0665091342987
(442176)	16.2	304.10976	207.96579	217.36630	8.02945	0.0834605	3.0790821342987
(442177)	20.0	52.14987	298.36847	269.41423	38.94962	0.0632960	1.2001993342987
(442178)	15.0	328.07345	289.31154	88.21683	18.32962	0.0943299	3.2312679342987
(442179)	16.4	331.39444	253.89717	116.23720	16.19145	0.2700241	3.1204821342988
(442180)	15.8	252.93147	262.19276	235.37558	14.52749	0.1846393	3.1439915342988
(442181)	17.8	247.66684	119.39179	315.79435	16.59582	0.0647674	1.9925106342988
(442182)	16.7	74.89612	39.30134	130.40675	22.69253	0.2209107	2.2851139342988
(442183)	15.1	218.96051	98.43860	21.46839	8.71151	0.1213103	3.9815661342989
(442184)	17.9	24.30262	121.38612	154.12991	6.14792	0.1954037	2.2486926342989
(442185)	18.5	83.75575	224.55219	348.36470	7.26621	0.0563071	2.1930146342989
(442186)	18.2	72.41523	68.33497	161.13485	8.00850	0.1301056	2.2033871342990
(442187)	17.7	72.18131	106.01741	93.92108	6.97896	0.1971286	2.2685862342990
(442188)	18.0	58.05227	168.66166	78.44156	6.01210	0.1616871	2.2356711342990
(442189)	17.6	42.18017	141.71229	64.42444	2.96492	0.1606351	2.3526932342990
(442190)	17.9	340.78897	228.23755	82.44266	4.45198	0.0464715	2.2604581342990
(442191)	17.9	98.40303	231.38735	337.70208	5.94119	0.0565850	2.1824189342991
(442192)	17.9	78.76189	144.75942	71.78561	6.02954	0.1221816	2.2154593342991
(442193)	18.3	74.75851	229.18338	354.13530	6.45282	0.0784390	2.1736730342991
(442194)	17.8	55.83191	47.31005	192.72754	7.32654	0.1216309	2.2675880342991
(442195)	18.1	351.54799	231.97404	27.12227	6.00493	0.1137567	2.4198304342992
(442196)	18.1	9.59664	165.93010	120.14348	3.89454	0.2328626	2.3411198342992
(442197)	17.2	66.91120	152.48923	63.53756	7.39559	0.0862931	2.3091386342992

(442198)	18.3	20.78546	49.45812	218.65623	1.93425	0.1918982	2.3105324342992
(442199)	18.1	358.50822	188.01514	108.61937	6.54183	0.2088441	2.2576847342993
(442200)	17.8	45.42911	118.84019	125.12846	5.05545	0.1709439	2.2503241342993
(442201)	17.7	30.54213	292.36071	318.80164	6.82913	0.1243211	2.2979517342993
(442202)	18.0	46.22234	234.31446	35.98786	9.08645	0.0599945	2.2008130342993
(442203)	18.2	16.90629	336.34124	300.19919	1.79480	0.2048852	2.3367067342993
(442204)	18.9	91.29197	200.80983	350.78920	1.34334	0.1924440	2.2635505342994
(442205)	18.0	59.74240	56.84302	192.29878	2.43742	0.2277604	2.2300306342994
(442206)	17.6	107.00938	62.60690	103.12278	6.75642	0.1155291	2.2926212342994
(442207)	18.1	88.15563	174.11828	20.67973	3.46015	0.1332985	2.2876225342994
(442208)	18.1	63.02433	115.41169	127.36221	8.18442	0.0966955	2.2395323342995
(442209)	18.1	27.94086	225.45612	46.26309	4.18666	0.1403226	2.2994124342995
(442210)	17.4	76.75743	47.33517	126.72063	6.06392	0.0842156	2.3942138342995
(442211)	17.9	27.48644	95.33041	155.16192	9.07634	0.2516812	2.3776600342995
(442212)	18.2	72.88575	67.35343	137.44094	4.26614	0.1772107	2.3442755342996
(442213)	18.3	30.50932	70.50855	197.78054	6.90394	0.1494563	2.2910333342996
(442214)	18.0	38.64089	342.58177	231.02860	1.71531	0.1484108	2.3927132342996
(442215)	18.4	75.15622	343.38202	228.25506	0.90036	0.0872808	2.2625810342996
(442216)	18.1	48.45653	81.23291	172.70330	3.21261	0.1495534	2.2480353342996
(442217)	18.0	104.33270	98.51087	99.16610	6.39680	0.0352108	2.2467688342997
(442218)	17.7	7.79574	238.40087	68.34773	6.11947	0.1312084	2.2577082342997
(442219)	17.5	344.15700	216.18094	117.37820	7.21738	0.1429895	2.2549339342997
(442220)	17.6	353.42751	106.94071	189.56302	6.28833	0.1537090	2.3048619342997
(442221)	18.3	26.89594	222.72454	48.83689	7.17037	0.0926679	2.2718549342998
(442222)	17.7	48.91806	159.57582	89.00570	6.35729	0.1121503	2.3325530342998
(442223)	17.8	344.16831	219.11204	104.10805	7.24503	0.2598556	2.3839579342998
(442224)	18.0	23.97786	225.88653	60.25025	6.78667	0.1664885	2.3053692342998
(442225)	17.7	43.00957	157.60888	84.98227	3.68857	0.1903920	2.3683691342999
(442226)	17.8	44.42978	173.71652	65.48515	6.19773	0.1095506	2.3907862342999
(442227)	17.8	12.22586	182.78885	108.24665	2.30076	0.1826805	2.3615164342999
(442228)	17.8	31.55972	190.51993	68.87387	5.71865	0.2102006	2.3907839342999
(442229)	18.1	105.84100	68.96890	104.24783	3.62434	0.1639138	2.3222517343000
(442230)	18.2	24.09227	124.00298	156.56659	2.80703	0.1551188	2.3343664343000
(442231)	18.1	112.07836	131.05156	40.79997	6.02480	0.1281601	2.3460539343000
(442232)	17.2	325.86591	229.96476	114.20137	17.09154	0.2665125	2.4343065343000
(442233)	17.0	77.09988	111.50923	129.98063	7.35924	0.0677492	2.2738815343001
(442234)	18.1	106.10891	38.12068	139.63705	5.86519	0.1355592	2.3296912343001
(442235)	17.8	187.27487	48.28156	84.81599	8.61427	0.0211634	2.2254800343001
(442236)	18.1	20.85169	234.88397	30.35666	2.87763	0.2106991	2.3860992343001
(442237)	17.1	347.72687	54.44011	283.81526	13.04331	0.2136403	2.5698768343002
(442238)	15.9	11.26166	127.81738	147.18583	30.00249	0.1975727	2.5884854343002
(442239)	17.7	60.68668	200.35064	12.85714	2.15946	0.1574391	2.3801255343002
(442240)	17.0	319.50328	60.21971	315.08833	11.66193	0.2932870	2.6416932343002
(442241)	17.1	12.27114	162.21830	118.18108	9.07755	0.2008706	2.3988350343003
(442242)	16.7	270.25520	229.78050	128.55087	15.88630	0.1250419	2.7717170343003
(442243)	18.0	340.62279	333.16584	15.94260	16.17902	0.4981608	2.5003951343003
(442244)	17.0	59.76499	294.65112	291.84485	12.29666	0.1470328	2.5843306343004
(442245)	17.4	355.55787	159.37322	130.21651	4.62747	0.2374936	2.5637421343004
(442246)	16.5	352.07883	186.22198	135.58512	12.28415	0.2030139	2.4705396343004
(442247)	17.3	11.14504	177.72566	129.19181	12.95505	0.1375528	2.4264114343005
(442248)	17.3	17.55535	15.74045	282.74942	1.89661	0.1634566	2.4654756343005
(442249)	17.2	352.88129	17.99429	310.27724	5.28977	0.1203444	2.4827022343005
(442250)	16.4	64.49057	243.44371	333.93947	29.78796	0.2873173	2.6077204343006
(442251)	17.3	319.07981	316.54089	50.22966	5.00300	0.2372173	2.4805784343006
(442252)	17.8	3.64584	67.60517	237.02904	1.61676	0.1947072	2.4610984343006
(442253)	18.8	339.71825	41.77729	270.88406	7.28583	0.3928286	2.5684822343007
(442254)	17.1	84.17832	277.31299	286.72010	10.27710	0.0797472	2.6331593343007
(442255)	16.1	345.22732	164.86330	115.15666	15.55426	0.0461216	2.7433191343007
(442256)	18.3	332.51818	186.40602	161.32209	14.78311	0.2685314	2.5660593343007
(442257)	17.8	0.72240	333.33657	321.31920	4.54785	0.2718185	2.5748208343008
(442258)	16.8	353.96534	141.36839	162.99747	13.52316	0.0882851	2.6417683343008
(442259)	16.3	357.85483	12.88108	284.77675	14.04081	0.1015251	2.5623420343008
(442260)	18.1	309.36602	65.58692	295.77716	13.30687	0.2231556	2.5687867343009
(442261)	16.1	16.64381	330.80845	298.87878	12.09248	0.1510780	2.6183442343009
(442262)	17.3	318.33462	39.33744	310.11075	13.90785	0.0598997	2.5920628343009
(442263)	17.6	326.44102	333.48677	8.20497	2.59282	0.1888989	2.6262459343010
(442264)	16.5	309.37285	257.88154	83.25479	8.69365	0.2817088	2.7423476343010
(442265)	17.0	2.50555	359.45770	327.47606	9.97383	0.0765291	2.4618461343010
(442266)	17.4	358.22497	123.46918	169.23960	6.99898	0.1660294	2.5894086343010
(442267)	17.9	1.47347	42.95596	247.88791	3.63191	0.2726485	2.5465323343011
(442268)	17.1	343.96461	128.61074	169.83197	13.22692	0.2376044	2.6419471343011
(442269)	17.0	336.92068	53.78876	282.42583	12.25667	0.2892782	2.5617126343011
(442270)	17.3	357.36258	55.22532	246.23760	4.04278	0.2382702	2.5890183343012
(442271)	16.5	299.63759	86.44633	242.99102	5.08442	0.0955924	2.8427428343012
(442272)	17.0	26.18272	283.43095	335.89392	12.29934	0.2527988	2.6286145343012
(442273)	17.8	9.33169	349.38619	340.85509	4.58551	0.1821155	2.4013698343012
(442274)	17.0	347.94526	196.21149	147.31804	7.25159	0.2034535	2.4724664343013
(442275)	17.5	275.06467	111.98023	291.65120	4.83703	0.1695602	2.6706986343013
(442276)	17.5	278.86012	119.54018	303.80889	8.01207	0.1542980	2.5433543343013
(442277)	15.5	254.23860	88.03050	262.19240	13.39228	0.1589104	3.1283484343013
(442278)	17.8	343.91599	286.12756	71.41357	2.19553	0.3063065	2.4819869343013
(442279)	17.3	0.36969	7.58306	285.46434	2.22923	0.1359655	2.6512753343014
(442280)	17.7	316.10411	182.84117	173.54128	3.96547	0.2099362	2.6438259343014
(442281)	16.7	240.71910	334.25684	131.70902	14.36888	0.2045901	2.7026417343014
(442282)	17.3	316.27446	26.14451	318.89534	5.35228	0.0203415	2.6835749343015
(442283)	17.3	260.32616	79.71971	317.83893	5.37768	0.0727127	2.7435169343015
(442284)	17.8	288.68846	177.75682	209.48129	7.62534	0.1498223	2.6153661343015
(442285)	17.4	263.39821	80.20634	346.59957	13.01258	0.1553751	2.6190059343015
(442286)	18.3	6.54606	104.56184	199.68466	4.22060	0.1600651	2.5699832343016
(442287)	16.5	308.27432	9.01707	11.54722	12.71961	0.1828201	2.6441119343016
(442288)	17.0	306.84690	166.77988	179.85332	10.03319	0.1853790	2.7968264343016
(442289)	16.6	308.94980	190.86727	173.03936	15.02405	0.1892628	2.6460009343017
(442290)	17.5	342.31670	89.69220	283.06420	5.08815	0.1342474	2.4251562343017
(442291)	17.1	296.89202	109.39972	298.64413	11.66782	0.2579917	2.6208713343017
(442292)	16.6	22.80558	2.54833	289.52527	11.59444	0.2489768	2.5613436343017
(442293)	17.2	320.64142	350.77598	7.30044	12.91784	0.1505237	2.6720682343018
(442294)	16.3	217.67228	254.47239	165.87217	18.42224	0.2422787	3.1288719343018
(442295)	17.1	28.44464	316.28479	356.03071	5.88642	0.1288453	2.4737709343018
(442296)	17.7	347.18189	176.26438	180.68202	3.88147	0.1765252	2.5735658343018
(442297)	17.1	336.37648	156.27254	182.89655	10.96980	0.1798383	2.6661793343019
(442298)	16.4	259.58384	147.51216	265.13447	7.72964	0.0839172	2.7988741343019
(442299)	17.8	39.44240	21.02805	257.44083	3.02126	0.1186980	2.5366439343019
(442300)	17.0	331.91957	137.28892	209.53997	11.21893	0.2932522	2.6558685343019
(442301)	16.0	327.16459	138.05576	132.54337	6.16418	0.1094775	3.2313986343020

(442302)	16.6	333.91356	109.19058	175.99597	10.48035	0.0272741	3.1390355343020
(442303)	17.4	344.39427	157.07893	208.34889	3.67477	0.2409945	2.5802142343020
(442304)	18.0	320.23050	60.89331	302.07726	2.62504	0.1870171	2.5908829343020
(442305)	17.2	338.98930	24.44252	320.08889	14.35171	0.1461407	2.5620217343020
(442306)	16.7	355.87839	42.78487	257.97447	12.37202	0.1479038	2.6222381343021
(442307)	16.7	308.93991	32.54748	344.16586	3.90752	0.1615303	2.6977566343021
(442308)	16.6	0.08870	323.76958	337.82546	10.71068	0.1898039	2.6140533343021
(442309)	17.4	16.03620	309.10313	346.13966	8.45690	0.1586091	2.5791309343022
(442310)	17.5	350.51356	127.89642	184.49423	3.20382	0.1432887	2.6491398343022
(442311)	17.1	352.66552	123.21098	180.68784	13.19446	0.1908655	2.6551812343022
(442312)	16.2	318.05459	54.16722	317.49310	12.50903	0.1939291	2.6762417343022
(442313)	17.4	288.40310	30.78169	22.07518	9.51858	0.2390965	2.6496070343023
(442314)	17.2	51.22866	177.59413	60.71183	1.03824	0.0079566	2.8016877343023
(442315)	17.8	342.07685	15.75781	348.96523	7.69562	0.2828884	2.5392337343023
(442316)	16.6	314.60284	58.25692	265.21752	3.54287	0.1609817	2.7946859343023
(442317)	16.9	291.00988	223.38352	192.73482	12.16629	0.2854141	2.6446230343024
(442318)	16.6	68.15123	114.99159	113.27414	11.48090	0.0433378	2.8770403343024
(442319)	17.7	294.06752	42.49503	10.21969	8.73449	0.2628454	2.6242135343024
(442320)	16.8	297.74447	333.08923	38.20247	4.56507	0.0839322	2.7687547343024
(442321)	17.7	8.74420	148.20327	157.39755	4.42939	0.2536927	2.5998233343025
(442322)	17.3	282.49959	349.73582	42.51105	5.46626	0.1328558	2.7767447343025
(442323)	16.9	353.57685	275.97696	40.77301	11.72349	0.2058235	2.7192470343025
(442324)	17.5	8.49009	264.85338	28.33567	13.67365	0.3164931	2.6424951343025
(442325)	17.4	307.35644	255.85053	149.29881	2.68711	0.2124066	2.5968870343025
(442326)	16.8	309.90577	211.83567	176.87251	29.41835	0.2280390	2.6081012343026
(442327)	16.8	231.44309	58.98791	21.21864	8.89321	0.1514635	2.7999112343026
(442328)	17.6	275.20998	18.97668	32.40723	3.19783	0.1310362	2.6702613343026
(442329)	17.1	331.01414	58.99665	295.84808	4.15264	0.1512703	2.6256831343026
(442330)	17.0	320.08438	89.92352	275.84576	5.15719	0.0575879	2.6720396343027
(442331)	16.4	32.56216	49.80848	220.84040	13.62430	0.0995165	2.7539851343027
(442332)	17.2	332.07443	127.86836	218.23663	4.23696	0.1285010	2.7059616343027
(442333)	17.5	338.75867	88.23768	264.39670	4.35215	0.2878471	2.5584129343027
(442334)	16.9	329.24976	184.47775	184.39989	8.58998	0.1529807	2.5841080343028
(442335)	17.0	314.41665	341.66947	19.11716	6.89827	0.2082693	2.6748415343028
(442336)	17.5	336.29446	195.33570	154.63126	5.05674	0.1937004	2.6298225343028
(442337)	17.4	7.74844	19.07698	290.51333	3.16353	0.1918637	2.6131459343029
(442338)	16.3	196.97458	114.18054	6.76002	5.97145	0.0336719	2.7833489343029
(442339)	17.0	302.93166	165.74160	207.51583	7.96541	0.1987980	2.7395211343029
(442340)	16.8	226.09558	14.06778	105.58623	2.75580	0.0539952	2.6538597343029
(442341)	17.7	347.92761	134.16935	197.85069	6.42969	0.0947402	2.5997024343030
(442342)	17.7	350.44194	118.13043	194.86971	12.20771	0.1941342	2.5945004343030
(442343)	17.7	300.99805	35.70418	340.12134	6.03549	0.1649549	2.6181299343030
(442344)	17.7	314.31693	25.10223	345.07143	8.62422	0.1756551	2.5793592343030
(442345)	17.6	359.08320	58.75456	270.95301	1.67399	0.2060366	2.4733626343030
(442346)	17.7	327.34699	241.00986	122.20332	3.31382	0.2407234	2.6198756343031
(442347)	17.5	341.37843	256.56947	79.83931	5.08884	0.2437382	2.5823878343031
(442348)	17.2	5.63491	5.62614	309.53584	14.17956	0.1058587	2.5519795343031
(442349)	17.9	325.25756	220.30473	144.68977	4.73063	0.2441506	2.5909530343031
(442350)	16.4	175.19790	126.84985	18.85333	12.56831	0.0920687	2.8644836343032
(442351)	17.7	8.48636	10.54041	299.82953	4.57614	0.1813820	2.6155867343032
(442352)	16.8	0.73247	324.72329	359.05196	13.66111	0.0842497	2.6558121343032
(442353)	17.3	359.95635	23.19288	299.82963	2.61058	0.2118703	2.6433639343032
(442354)	16.6	320.81874	344.79544	4.46275	13.79324	0.1860315	2.6207806343033
(442355)	16.7	270.16069	22.99527	37.42872	3.03028	0.2227907	2.7043579343033
(442356)	18.1	305.73750	269.24832	132.47078	4.70200	0.2774979	2.5895654343033
(442357)	17.0	260.72392	200.12082	226.88112	3.82730	0.0855170	2.7772438343033
(442358)	16.5	4.00256	326.94883	356.30336	14.33400	0.1069065	2.6242673343034
(442359)	16.7	314.62015	218.11621	182.32065	5.59249	0.2656426	2.6014596343034
(442360)	18.1	297.72172	171.85495	241.69702	4.01113	0.2770965	2.6255453343034
(442361)	16.9	286.85429	92.38020	319.15835	6.55460	0.1915645	2.6309281343034
(442362)	17.3	282.18760	234.15180	158.56276	3.75139	0.1275095	2.7031908343035
(442363)	17.5	321.04284	171.77332	191.93302	7.63112	0.2072597	2.6204893343035
(442364)	18.1	301.54888	131.11582	271.68501	3.43531	0.2518615	2.5800618343035
(442365)	17.3	344.28852	104.64404	226.98315	7.09925	0.2540584	2.6144040343035
(442366)	17.2	291.01579	14.97581	17.27892	4.45144	0.1579578	2.6828810343036
(442367)	17.9	340.14804	175.86408	171.54953	2.68654	0.2208469	2.6225256343036
(442368)	17.5	6.30384	291.69852	355.05380	3.56208	0.2174964	2.6387095343036
(442369)	17.4	256.61073	101.79446	316.32875	4.31507	0.1621302	2.8078450343036
(442370)	16.1	54.77446	31.62409	224.77378	9.02295	0.0750133	2.7851322343037
(442371)	17.5	339.86653	324.14249	80.27446	3.50352	0.1762681	2.3666312343037
(442372)	17.0	21.04184	171.83357	129.48313	8.00848	0.1870378	2.5464036343037
(442373)	16.7	241.03420	300.00867	139.33752	8.47159	0.2068945	2.7861757343037
(442374)	17.3	305.84100	68.71729	337.28346	4.52461	0.2262261	2.5935831343038
(442375)	17.9	306.13566	321.41597	54.57107	2.97609	0.1502199	2.6809051343038
(442376)	17.1	286.77583	351.50641	84.56305	5.44605	0.2757843	2.6233494343038
(442377)	17.3	313.86947	113.86221	272.24395	5.70808	0.2974571	2.6309169343038
(442378)	16.9	280.29741	313.53094	76.36975	6.05260	0.1307177	2.7761721343039
(442379)	16.7	330.92285	108.86662	226.39039	11.45021	0.1178119	2.7775785343039
(442380)	17.3	291.94120	347.96526	52.96049	4.82728	0.3085106	2.6969949343039
(442381)	16.9	347.68738	121.49865	220.43911	3.63513	0.3342036	2.6006540343039
(442382)	16.4	222.53837	268.15328	209.92624	8.66682	0.1449111	2.7579706343040
(442383)	16.9	274.70661	20.60751	49.39693	4.23265	0.1806593	2.7448599343040
(442384)	16.5	123.68900	74.15534	88.93751	6.57614	0.1042872	2.9935514343040
(442385)	16.8	268.53763	90.99331	320.87694	5.27799	0.0161032	2.7459730343041
(442386)	17.5	291.56821	106.83370	314.42076	1.34913	0.1997898	2.6453911343041
(442387)	16.8	287.18634	6.50187	47.33544	5.52670	0.1001600	2.6923747343041
(442388)	17.7	314.23961	253.83247	134.41968	1.46092	0.0720938	2.6607969343041
(442389)	17.2	308.25256	326.10326	63.43830	5.47178	0.0847747	2.6903649343042
(442390)	16.8	282.37507	184.68935	223.38921	9.80771	0.1257478	2.8060713343042
(442391)	17.2	312.77019	321.87046	59.36849	5.98405	0.1674051	2.7341269343042
(442392)	17.1	339.91301	293.43799	51.13391	6.44245	0.2962035	2.6072597343042
(442393)	17.0	344.65323	319.06640	22.75738	13.49894	0.1626978	2.6192173343043
(442394)	16.8	36.57734	245.22762	25.29527	10.71911	0.1001665	2.7476583343043
(442395)	16.8	7.57090	293.01645	26.98005	14.75789	0.0771153	2.6423662343043
(442396)	16.6	257.43401	210.57442	216.03795	7.06509	0.2050887	2.8059678343043
(442397)	17.2	309.62558	9.82147	352.17194	2.96104	0.1077492	2.7646271343044
(442398)	17.2	302.45209	175.66814	226.67372	7.40032	0.1392734	2.6655162343044
(442399)	17.3	287.91688	185.40957	214.86620	4.26193	0.1080706	2.7674531343044
(442400)	17.3	323.03286	330.13355	46.30901	2.41527	0.1023922	2.7112920343044
(442401)	16.5	308.87855	156.49856	236.81662	6.97566	0.1313465	2.6951897343044
(442402)	17.3	325.90721	287.69478	73.68007	3.48167	0.3016225	2.6360234343045
(442403)	17.2	291.83333	186.61803	190.43369	4.19618	0.0887033	2.8097555343045
(442404)	17.1	56.64623	195.12726	73.21856	7.76387	0.0527870	2.6969250343045
(442405)	17.6	0.19066	182.53687	149.02881	3.83645	0.2439926	2.5661759343045

(442406)	17.2	285.70098	194.92036	225.19397	5.01573	0.0897407	2.6938831343046
(442407)	17.2	337.36812	27.32340	315.97254	3.46263	0.0879179	2.7552472343046
(442408)	17.3	331.90462	137.61627	209.14218	3.50212	0.1209366	2.7747934343046
(442409)	16.9	342.29438	260.31965	63.38021	2.88679	0.0956020	2.8680206343046
(442410)	16.1	325.18974	98.84436	237.90753	11.96565	0.0788007	3.0216271343047
(442411)	16.0	19.22936	350.60196	274.56042	8.04866	0.0769128	3.0574485343047
(442412)	17.2	353.49041	310.02679	24.07237	6.61643	0.0723484	2.7558697343047
(442413)	17.1	5.92820	309.66988	2.50452	7.58828	0.1684663	2.6428175343047
(442414)	16.5	331.84512	52.41100	313.30309	16.55280	0.1340450	2.6133947343048
(442415)	16.4	340.19047	300.29614	46.34908	15.12530	0.1493022	2.6643435343048
(442416)	16.5	293.78034	120.60230	263.43335	5.47895	0.0167710	2.7626043343048
(442417)	16.1	283.93649	121.08394	230.05503	12.69570	0.1637474	3.1602269343048
(442418)	17.6	298.86512	163.80877	261.58153	4.63810	0.3013955	2.6225894343049
(442419)	17.4	303.95798	181.87343	211.17841	13.43135	0.1435055	2.6229736343049
(442420)	16.1	75.03850	13.12873	219.97809	11.18320	0.1071404	2.8021702343049
(442421)	16.9	94.06366	203.05397	18.01016	12.43071	0.0939062	2.7619319343049
(442422)	16.0	35.13067	295.25934	4.98334	14.25798	0.1178792	2.5927290343050
(442423)	16.5	330.70236	35.54533	332.89751	5.40027	0.0228429	2.7065709343050
(442424)	16.6	11.72422	244.98775	62.29315	9.84473	0.1299146	2.7749428343050
(442425)	17.2	1.44758	257.26584	44.47822	5.65523	0.1538844	2.7441870343050
(442426)	16.6	287.08292	122.93746	301.38309	14.09116	0.1160767	2.6024935343051
(442427)	17.3	339.92840	25.10552	341.36727	5.56748	0.2238956	2.5886245343051
(442428)	18.0	338.30236	159.04698	192.05908	2.00963	0.2249373	2.6323236343051
(442429)	17.2	321.66896	338.92461	29.91490	3.19640	0.0917997	2.7285610343051
(442430)	17.5	304.45126	21.95894	9.42798	2.62277	0.0913774	2.7416484343051
(442431)	17.2	269.57915	308.53245	121.23320	3.22171	0.1367751	2.7140924343052
(442432)	17.5	347.17375	332.23177	8.41179	6.69428	0.1619952	2.7476586343052
(442433)	14.9	192.32980	197.57898	249.29761	25.80457	0.0988929	3.1891792343052
(442434)	17.3	343.95334	103.81416	237.33065	1.77493	0.2012092	2.6788539343052
(442435)	17.3	345.66644	106.70589	214.86796	11.75462	0.1853649	2.6557295343053
(442436)	17.3	266.16866	339.79210	80.29798	3.29208	0.1410622	2.8808080343053
(442437)	17.6	332.08467	259.79703	116.74641	2.36681	0.2253176	2.6288243343053
(442438)	15.6	321.89546	80.34091	239.52399	31.47794	0.0544719	3.2362418343053
(442439)	17.0	331.86000	293.06992	55.97607	6.23730	0.2944179	2.6297348343054
(442440)	17.1	348.67615	251.13726	90.20037	5.91217	0.1825560	2.7104670343054
(442441)	17.5	310.76628	197.48313	180.32084	10.20369	0.2926779	2.6840761343054
(442442)	17.1	3.15869	149.49081	169.84666	5.89752	0.4515873	2.6009242343054
(442443)	17.2	15.73211	185.87387	126.29294	5.72973	0.2983144	2.5685160343055
(442444)	17.5	335.75187	286.21127	76.39812	5.55811	0.2718226	2.5984717343055
(442445)	17.2	349.85220	67.65435	266.69081	3.26851	0.1537170	2.5997594343055
(442446)	16.0	232.76995	211.75207	193.25594	13.21201	0.1860045	3.1264483343055
(442447)	16.4	90.68632	187.19534	29.54279	10.67725	0.0363843	2.9658459343055
(442448)	16.1	339.08441	276.38291	71.63702	13.47396	0.1193314	2.6868244343056
(442449)	17.4	343.30704	39.74219	280.53137	3.12659	0.2085040	2.7317888343056
(442450)	17.4	249.32757	251.08950	162.36784	2.34790	0.0595093	2.8660542343056
(442451)	17.6	14.48076	131.97534	180.09993	3.72513	0.1096331	2.6247261343056
(442452)	16.6	346.24871	353.06551	9.15633	13.04045	0.1716058	2.5769537343057
(442453)	16.9	17.88743	320.45936	332.41683	2.74207	0.1592508	2.7800953343057
(442454)	17.1	218.94161	211.10914	231.38545	11.03737	0.0621711	2.9977963343057
(442455)	17.9	317.87248	335.31468	66.93083	0.37481	0.2049107	2.6119380343057
(442456)	16.1	279.12471	5.24029	56.86402	10.66084	0.0328507	2.7620618343058
(442457)	17.2	326.25187	311.03319	72.58405	5.98293	0.2248106	2.5870431343058
(442458)	17.0	297.80019	171.57552	207.45020	8.46293	0.1587438	2.7913179343058
(442459)	16.7	296.75143	282.27067	120.06046	12.74660	0.1927303	2.6277044343058
(442460)	16.3	313.21435	306.42504	77.50014	12.31810	0.1365863	2.6815678343059
(442461)	17.1	347.71364	283.06670	76.35801	3.69533	0.2943337	2.5904664343059
(442462)	16.5	330.61271	117.82301	233.03926	12.73813	0.0991204	2.7756294343059
(442463)	17.0	245.62164	180.83977	257.04538	4.70267	0.0667429	2.7849806343060
(442464)	17.4	327.56281	62.37321	312.41105	2.37163	0.2130811	2.6244313343060
(442465)	15.6	238.94997	310.10939	80.83415	20.19022	0.1521177	3.2067628343060
(442466)	17.0	348.95390	190.10334	116.33086	3.19053	0.0500435	2.8695323343060
(442467)	17.4	278.76689	276.94892	145.70331	5.08828	0.1572743	2.6565313343060
(442468)	16.7	350.82667	271.79958	46.88381	8.65697	0.1932447	2.7400999343061
(442469)	16.7	249.92390	339.89664	78.12696	3.13110	0.0997369	2.9305824343061
(442470)	16.1	96.18790	143.06945	55.69611	11.71011	0.0284135	3.0909049343061
(442471)	16.5	174.49153	70.93007	69.54846	11.77216	0.0390639	2.9917319343061
(442472)	17.1	111.78465	114.15217	90.67257	5.79556	0.0096480	2.7768271343062
(442473)	15.5	222.43019	165.19973	242.14777	10.48854	0.1238408	3.1848514343062
(442474)	17.5	302.43617	165.64688	208.19016	2.31817	0.1535078	2.7800642343062
(442475)	16.2	313.62321	312.13245	58.69748	18.73513	0.2230070	2.6651026343062
(442476)	16.2	183.19125	91.03777	60.41012	9.65495	0.0722221	2.7912110343063
(442477)	16.9	277.50839	311.65645	83.51827	4.21728	0.0795861	2.8780035343063
(442478)	16.9	315.41220	20.63511	354.83925	13.79610	0.1116730	2.7004376343063
(442479)	16.2	221.05842	162.86293	312.44470	10.69933	0.0503535	2.7331653343063
(442480)	16.5	282.35082	303.88416	89.17775	16.29005	0.1570862	2.7996627343064
(442481)	17.2	300.32646	289.39495	91.90046	4.42012	0.1470805	2.7227216343064
(442482)	16.2	260.91529	186.55624	182.24380	10.38846	0.0857709	3.0608193343064
(442483)	16.8	300.20682	103.14926	285.23487	4.77169	0.1590014	2.7117132343064
(442484)	16.2	170.81023	79.07188	69.66155	9.99781	0.0494897	2.9784108343064
(442485)	17.3	303.18441	298.71951	70.01102	5.41704	0.1218987	2.8032911343065
(442486)	16.2	332.30234	250.01366	83.41632	13.99631	0.2225777	2.7952018343065
(442487)	16.6	331.86262	256.47073	102.65976	12.55295	0.2702044	2.6528838343065
(442488)	16.8	314.43931	288.55221	93.40596	13.65666	0.1954201	2.6858023343066
(442489)	17.3	10.22150	68.00175	238.45506	8.26358	0.0841605	2.5697917343066
(442490)	17.1	324.41199	177.48539	176.84192	6.58541	0.0289161	2.7741680343066
(442491)	16.3	179.16612	277.69333	234.89322	12.63125	0.1411483	2.7491299343066
(442492)	16.7	353.07453	337.21616	343.25245	11.36991	0.1835442	2.6003375343066
(442493)	17.9	345.43162	166.24591	179.36998	14.23908	0.2648966	2.5935612343067
(442494)	16.6	278.73511	329.52864	69.06939	10.37416	0.0610993	2.9649928343067
(442495)	16.9	338.27284	253.89000	75.90306	12.37908	0.2596753	2.7259890343067
(442496)	17.2	296.78088	343.73811	47.05955	4.29292	0.1124202	2.7574009343068
(442497)	16.9	338.01982	295.05895	52.12318	9.52652	0.2015922	2.6934186343068
(442498)	17.0	277.14032	69.87868	345.90393	5.00753	0.0773659	2.8040633343068
(442499)	17.4	0.23554	201.82616	137.50797	4.78439	0.1366945	2.6348823343068
(442500)	15.4	235.47693	308.93983	74.54715	19.13848	0.0785926	3.5434418343068
(442501)	16.7	16.81829	40.24137	248.77386	5.12323	0.2041626	2.8641037343069
(442502)	17.0	297.78172	169.11537	207.49130	7.77889	0.1875936	2.7723484343069
(442503)	16.8	340.53649	259.25283	82.76325	13.24817	0.2654473	2.7544068343069
(442504)	16.3	58.27227	349.20971	248.74180	8.45805	0.0473405	3.1848928343069
(442505)	17.1	343.47215	124.92242	247.79435	5.14433	0.0287763	2.6896479343070
(442506)	17.1	260.40681	355.74413	58.57691	1.71120	0.1108173	2.9777453343070
(442507)	17.5	270.26721	54.84563	8.13182	8.30969	0.1810003	2.8540256343070
(442508)	16.5	336.33703	183.32529	200.21385	13.69849	0.1789395	2.5884031343070
(442509)	17.1	321.39864	304.64581	73.86937	9.16427	0.1823424	2.6943029343070

(442510)	17.3	299.69106	192.29811	193.74580	2.07136	0.0571868	2.8377730343071
(442511)	17.2	297.84858	333.73042	90.08299	3.07652	0.0549689	2.6882271343071
(442512)	16.2	345.33328	54.83679	274.08371	9.56971	0.0243598	3.0984530343071
(442513)	17.4	318.78736	36.52705	356.04538	6.16795	0.3305925	2.6315103343071
(442514)	16.6	339.80317	89.99377	251.64085	11.66130	0.1300290	2.7777313343072
(442515)	17.4	332.54776	28.78990	11.31159	5.62041	0.3454871	2.5798512343072
(442516)	16.4	142.29850	273.56351	249.62422	8.14527	0.0308388	3.0372837343072
(442517)	16.6	312.21550	238.32701	87.25314	6.25568	0.1906862	3.1328226343072
(442518)	16.9	285.32325	318.52509	99.95325	4.74422	0.0871770	2.7949522343073
(442519)	17.4	240.36125	297.20511	133.71185	1.79492	0.1466294	3.0185929343073
(442520)	17.0	179.28809	65.56115	81.80921	6.35466	0.0844687	2.9762355343073
(442521)	16.5	308.49593	332.57711	64.69996	10.43458	0.2862346	2.7269441343073
(442522)	17.3	311.58513	306.17398	80.61953	9.52055	0.2725039	2.7287891343074
(442523)	19.4	317.98576	242.37149	67.72122	6.71605	0.4248499	1.6665414343074
(442524)	16.0	37.65101	188.86274	79.71347	10.61370	0.0743364	3.0569342343075
(442525)	16.1	290.10943	355.37202	9.16725	8.16518	0.0918469	3.0269615343075
(442526)	16.5	243.54217	82.77999	334.68399	7.36728	0.0360573	3.0479810343075
(442527)	16.1	130.04893	269.79661	286.28705	5.55649	0.0347103	2.9583196343076
(442528)	16.2	298.43609	247.08016	119.42483	11.75040	0.1438431	2.9728351343076
(442529)	16.6	234.64484	157.44718	288.90890	4.95758	0.2214350	3.0528760343076
(442530)	16.4	284.73605	126.12785	255.16004	14.78540	0.0803076	2.9985035343076
(442531)	16.4	119.91751	311.62290	242.65514	9.48337	0.0566939	2.9921201343076
(442532)	17.2	301.39974	154.63951	245.98106	3.39396	0.0725695	2.7841277343077
(442533)	16.1	356.18872	202.92305	128.09555	19.32094	0.2941815	2.6189080343077
(442534)	16.8	337.24892	318.29971	34.13421	3.11481	0.1696350	2.8747947343077
(442535)	17.3	203.07100	150.56664	345.47298	3.17537	0.0341234	2.7570322343077
(442536)	17.2	0.59723	34.21003	338.28440	2.17266	0.2005195	2.5649586343078
(442537)	16.2	263.99584	81.03887	336.35228	11.72957	0.1719518	3.1059302343078
(442538)	16.1	30.10218	14.13303	274.84171	16.73533	0.1301282	2.7587868343078
(442539)	16.1	12.32495	219.84627	83.36996	8.78956	0.0403748	3.0174232343078
(442540)	16.7	318.44226	261.19989	117.40294	16.89217	0.2402140	2.9004686343079
(442541)	15.4	326.84943	242.97522	106.99890	22.85302	0.1906806	3.1477366343079
(442542)	16.7	253.81343	87.18466	345.65661	4.75750	0.1302748	3.0658716343079
(442543)	15.8	205.66747	196.76664	291.00574	7.88242	0.0657950	3.1081641343079
(442544)	16.3	286.36540	281.29385	122.52225	16.64010	0.1476431	3.0451545343080
(442545)	15.7	170.21013	198.08613	326.02088	9.83848	0.0218590	3.2110670343080
(442546)	16.2	237.56569	356.18355	97.30163	10.00995	0.0456058	3.1764813343080
(442547)	17.7	58.96354	80.52334	120.10900	45.28869	0.0230022	1.8308844343080
(442548)	16.5	315.39441	50.37776	308.49654	7.68790	0.1164543	3.1016509343081
(442549)	15.7	249.94223	160.74409	283.76055	9.86543	0.0851194	3.1614395343081
(442550)	16.8	313.43182	79.60609	311.46599	3.23007	0.1288725	2.9510931343081
(442551)	16.2	271.32346	291.34066	118.38149	17.94440	0.1337585	3.2101819343081
(442552)	16.9	326.89899	251.51270	152.00683	8.43489	0.2234832	2.7405717343082
(442553)	16.3	303.55496	255.53176	112.76218	11.03672	0.1091398	3.0975441343082
(442554)	16.2	250.54506	123.45437	331.61946	12.12428	0.0804397	3.1043787343082
(442555)	16.5	286.54797	275.89083	127.51979	8.46655	0.2039684	3.0408826343082
(442556)	16.1	278.60750	282.53336	135.87307	11.49557	0.1211538	3.0991143343083
(442557)	16.3	320.91269	268.09256	113.03928	3.02611	0.0738488	3.0655808343083
(442558)	16.2	332.41970	233.62820	125.03844	10.25705	0.0931899	3.1666317343083
(442559)	18.2	261.98167	307.42848	125.26169	39.12182	0.3158371	1.6579853343083
(442560)	15.8	243.48667	186.47948	273.38094	14.79636	0.1288837	3.0848043343084
(442561)	15.9	244.38817	124.33438	318.29167	11.94279	0.0549050	3.1638509343084
(442562)	16.3	339.57754	292.97900	51.73053	5.81047	0.0382590	3.1870624343084
(442563)	15.9	260.05310	306.44699	149.06773	17.21691	0.1883343	3.1019405343085
(442564)	16.3	349.54693	305.92673	76.65602	12.24066	0.2054219	2.6773186343085
(442565)	14.6	116.83285	189.01916	341.30759	10.06806	0.1231371	3.9866600343085
(442566)	16.5	329.36294	54.34756	303.40961	6.84068	0.0848450	3.1984189343086
(442567)	15.3	358.04246	21.10289	322.36534	12.03500	0.1301546	3.1489473343086
(442568)	16.0	305.65270	100.98440	300.76421	9.43668	0.0901406	3.0939270343086
(442569)	16.1	290.36724	144.20794	264.06234	8.14721	0.1385390	3.0485198343086
(442570)	16.2	243.95126	320.16625	126.52427	9.95324	0.0784969	3.1578005343087
(442571)	15.4	251.09168	272.58483	158.55805	26.45354	0.2402966	3.2093053343087
(442572)	17.0	317.60891	251.28329	126.03562	8.33140	0.3277164	2.8754749343087
(442573)	15.8	316.54756	244.24498	144.62884	17.40617	0.1022619	3.0594723343087
(442574)	16.5	289.30237	265.00763	147.73500	4.32212	0.1894957	3.0188433343088
(442575)	15.0	199.16563	197.07500	296.19160	15.72755	0.1548790	3.1637849343088
(442576)	16.2	318.45013	57.67224	318.82511	8.36399	0.1056738	3.1726000343088
(442577)	16.9	245.76506	5.13807	93.52546	2.59237	0.1496697	3.1170116343088
(442578)	17.3	279.91850	335.42739	75.42349	2.45562	0.1761827	3.1526977343089
(442579)	15.5	284.15948	125.92651	287.83113	15.49416	0.1045102	3.1315464343089
(442580)	16.4	272.80194	274.39703	137.50481	6.56631	0.2763712	3.1609864343089
(442581)	16.1	310.00313	79.55519	317.38143	11.66091	0.1485998	3.0488785343089
(442582)	16.2	222.54014	177.81731	308.56672	11.23886	0.2008171	3.1153682343090
(442583)	15.5	287.62834	105.41955	296.57073	9.75523	0.0130814	3.1588112343090
(442584)	15.8	328.64136	229.99773	123.26422	28.31919	0.2243285	3.1861629343090
(442585)	15.7	280.94061	274.44185	130.45134	15.87793	0.0849408	3.1640662343090
(442586)	16.7	316.46723	29.40127	68.32292	13.94303	0.3641605	2.5701531343091
(442587)	16.6	272.31439	106.50239	344.13250	5.63731	0.1039029	3.0434758343091
(442588)	15.7	309.57858	269.42339	131.42764	10.34861	0.0906447	3.1366018343091
(442589)	16.0	257.11273	288.00764	153.09516	12.14682	0.1210262	3.2309921343091
(442590)	16.6	260.42639	125.53217	313.61243	2.59576	0.1484474	3.1764263343092
(442591)	16.8	275.24897	226.37441	202.63625	3.18161	0.2061501	3.0827384343092
(442592)	15.8	259.91076	277.23459	169.38699	18.87232	0.1420426	3.1893957343092
(442593)	16.5	333.47478	221.38257	161.91945	6.13744	0.1399183	3.0915752343092
(442594)	15.8	321.55071	244.04981	131.07045	10.75127	0.0404226	3.4062726343093
(442595)	16.0	321.68919	8.16150	11.80474	11.66355	0.0927891	3.1193115343093
(442596)	16.3	269.86099	342.44106	111.77012	12.26118	0.2399076	2.9951906343093
(442597)	15.7	283.28514	299.75415	130.45888	9.92068	0.1528431	3.1273590343093
(442598)	15.5	295.26262	251.05993	146.01970	18.23367	0.1303217	3.3928328343094
(442599)	15.5	320.10495	209.44720	188.14070	11.86626	0.0627273	3.1751978343094
(442600)	16.7	277.38974	270.20991	177.41380	25.54795	0.2522684	3.1212559343094
(442601)	18.0	173.53578	283.12111	159.38808	23.50759	0.1278395	1.8894035343094
(442602)	15.6	243.51917	317.14694	131.37002	29.10893	0.1743127	3.1503323343095
(442603)	15.4	189.81473	335.92727	144.97108	4.01149	0.1271045	4.0109395343095
(442604)	17.8	348.38963	178.34594	119.93213	23.74403	0.0593495	1.9138906343095
(442605)	19.1	352.06057	270.67811	63.70624	14.69476	0.5443375	1.9972143343095
(442606)	17.8	272.51169	274.44579	111.08151	23.90730	0.1221969	1.9316510343096
(442607)	17.9	24.58190	140.88743	119.26157	24.33397	0.0363169	1.9561081343096
(442608)	18.0	86.86115	84.67494	130.07748	24.01380	0.0662953	1.9010271343096
(442609)	17.7	319.82939	207.72928	136.27198	18.99702	0.5156258	2.2000039343096
(442610)	17.6	36.67874	149.15197	126.84006	23.61945	0.0654119	1.9117886343097
(442611)	17.4	51.88237	289.44568	281.86126	5.39701	0.0268809	2.2822540343097
(442612)	17.8	355.44160	342.60355	312.20819	7.26544	0.0952644	2.1888214343097
(442613)	18.1	13.85474	330.56953	267.16964	4.45515	0.1987488	2.2342937343098

(442614)	17.5	249.95087	222.16050	154.85034	1.74850	0.1925509	2.4407539343098
(442615)	18.2	7.87198	62.48079	210.53602	5.26313	0.1889563	2.1906323343098
(442616)	17.1	272.54356	232.71007	147.66246	23.98383	0.2200201	2.2636948343098
(442617)	17.4	321.67878	27.86958	282.59827	4.92496	0.1051630	2.2831028343099
(442618)	18.1	325.83937	60.48973	254.71748	1.56940	0.2004278	2.2453790343099
(442619)	17.6	314.78009	224.16100	94.27488	2.67719	0.1894360	2.3626907343099
(442620)	17.9	301.00509	144.92735	194.23685	7.16082	0.1295003	2.2652982343099
(442621)	18.6	341.96151	309.94335	11.58114	4.64348	0.1105165	2.1734961343099
(442622)	18.2	305.82700	127.77505	204.05284	6.09892	0.1684222	2.2950287343100
(442623)	18.2	261.57642	74.85315	344.30710	8.05288	0.1492205	2.2510304343100
(442624)	18.2	289.84335	166.60043	226.16094	6.18035	0.0657439	2.2034059343100
(442625)	18.0	16.92549	332.67904	312.50004	3.46957	0.1805612	2.1954001343100
(442626)	18.1	312.64785	187.87459	189.07588	6.63640	0.1474621	2.1834389343101
(442627)	18.7	12.07953	89.44858	212.84423	4.32663	0.0332381	2.1709730343101
(442628)	17.9	15.85361	50.51437	231.48984	2.28035	0.2587349	2.1344115343101
(442629)	18.2	304.85072	320.45187	14.68199	1.16563	0.2405251	2.3352640343101
(442630)	18.4	335.88804	338.64791	353.04786	1.85494	0.1863693	2.1495842343102
(442631)	17.1	225.47052	213.52351	228.54119	8.87957	0.0963443	2.2890110343102
(442632)	17.7	19.43128	236.62327	28.87208	2.39213	0.2002225	2.2731354343102
(442633)	18.1	263.92939	188.00603	220.49399	2.95148	0.1117419	2.2727033343102
(442634)	17.6	255.11528	57.68518	323.94445	6.05398	0.1633593	2.4105981343103
(442635)	18.0	225.58826	283.90230	178.02738	4.17099	0.1292892	2.2033028343103
(442636)	17.5	79.72272	309.08748	260.77035	6.18573	0.0801607	2.3056837343103
(442637)	18.2	0.65208	292.91840	6.33688	2.17949	0.0402925	2.2634035343103
(442638)	18.0	306.10435	55.52692	303.46962	3.96604	0.1821134	2.2373470343104
(442639)	18.3	333.06601	145.76171	192.70508	2.97671	0.1699955	2.2213128343104
(442640)	17.9	228.75129	133.81293	304.57620	2.44027	0.1641235	2.3188632343104
(442641)	17.9	342.37117	203.73296	86.67661	3.70713	0.1993768	2.3033474343104
(442642)	17.2	278.50242	151.61611	212.01905	5.80784	0.1717079	2.4321037343105
(442643)	17.6	228.24899	153.82619	299.58850	5.13012	0.0920131	2.2933938343105
(442644)	18.3	4.69553	283.41531	0.78317	4.84422	0.1510194	2.2689833343105
(442645)	17.9	95.90114	250.40514	323.66251	7.21970	0.0520242	2.2476459343105
(442646)	18.0	272.12074	138.54899	269.53189	2.28750	0.1009982	2.2213087343106
(442647)	17.4	101.34072	223.27064	286.19461	3.71784	0.0507793	2.6586702343106
(442648)	17.2	68.21329	328.41363	254.16864	5.91591	0.0655951	2.3222993343106
(442649)	17.8	0.56761	228.91095	78.05121	5.28008	0.2613999	2.1596902343106
(442650)	17.7	317.04777	350.90291	354.55334	2.72915	0.1785264	2.2462510343107
(442651)	18.0	294.93993	63.10800	308.35450	8.64678	0.1732074	2.1835941343107
(442652)	17.8	294.72979	290.21955	102.19631	5.31263	0.1160525	2.1744439343107
(442653)	18.5	288.47470	131.25407	267.52829	1.29896	0.1507934	2.2053911343107
(442654)	17.7	310.47739	347.95256	17.05765	7.22714	0.1099198	2.2429442343108
(442655)	18.3	309.22755	195.53354	175.78809	6.45214	0.0846662	2.1785106343108
(442656)	18.0	8.84281	125.80250	154.00448	5.74817	0.1585159	2.2887936343108
(442657)	17.9	267.48514	331.50305	74.47678	5.35929	0.1431534	2.2771586343108
(442658)	18.2	323.55184	47.92622	261.93053	4.97183	0.1532749	2.3476733343108
(442659)	17.8	228.31476	89.59489	354.51224	6.67823	0.1372132	2.3874150343109
(442660)	18.2	265.60642	31.99542	11.65358	2.33130	0.1281691	2.3556060343109
(442661)	18.0	241.88107	136.89505	294.68557	4.09270	0.1710906	2.3400466343109
(442662)	16.4	182.19016	191.98333	246.08223	8.85073	0.1412012	2.7207696343109
(442663)	17.5	277.65349	10.16012	35.75924	8.57094	0.1202932	2.2670984343110
(442664)	18.5	314.49945	258.35898	111.30301	0.76739	0.1571744	2.1687465343110
(442665)	17.5	290.83197	273.52255	87.36524	7.05972	0.2284564	2.2950613343110
(442666)	17.4	61.20945	329.49484	277.44956	6.19907	0.0720412	2.2688363343110
(442667)	17.7	2.81458	43.00349	246.98813	7.12974	0.1330112	2.2702038343110
(442668)	17.7	219.74154	127.63610	323.70237	4.97866	0.1837016	2.3573926343111
(442669)	17.9	316.48891	145.90422	204.61886	6.65546	0.1101052	2.2994304343111
(442670)	17.2	302.07553	116.73342	262.24619	5.40038	0.0207604	2.2502774343111
(442671)	17.9	207.17414	133.82348	323.20911	3.83402	0.1164029	2.4440856343112
(442672)	16.7	77.92069	328.66610	221.51341	21.11504	0.0358626	2.6162425343112
(442673)	17.8	280.65711	352.35297	56.05591	8.41602	0.1574470	2.1908221343112
(442674)	17.0	207.83376	164.72412	296.61090	4.33180	0.0987953	2.2870422343112
(442675)	17.9	296.65832	308.49159	82.66725	4.93018	0.1850969	2.2119877343112
(442676)	17.1	359.53186	16.83978	279.25775	6.06275	0.1210477	2.3035442343113
(442677)	17.7	265.19141	64.37727	352.08376	7.39256	0.1333182	2.2676492343113
(442678)	17.1	252.46194	272.63883	144.17357	13.64171	0.1289875	2.3678896343113
(442679)	18.2	278.20628	269.57172	126.26807	4.46655	0.1950513	2.2571589343114
(442680)	17.0	23.63141	196.36747	34.89767	6.20002	0.0574643	2.5774425343114
(442681)	18.4	325.42093	0.81675	334.28018	9.71226	0.1269661	2.2673266343114
(442682)	17.1	224.43692	158.40799	285.41366	6.28949	0.0687000	2.3621477343114
(442683)	17.7	347.68716	55.36316	256.37942	4.95322	0.2489204	2.2194963343114
(442684)	16.3	178.39898	30.31619	19.20893	10.78835	0.1068390	2.9730857343115
(442685)	18.3	329.36290	268.74502	31.53941	1.52681	0.1861773	2.4032029343115
(442686)	17.7	273.10855	212.46083	194.21193	4.66635	0.2126266	2.3165149343115
(442687)	17.5	97.34716	35.89667	173.38400	6.00295	0.0611470	2.3411769343115
(442688)	17.5	230.17122	220.57127	180.90787	3.89575	0.1477293	2.5613358343116
(442689)	17.9	30.72892	227.79133	41.73905	7.16942	0.1041542	2.2977103343116
(442690)	18.0	7.92538	151.93377	137.86761	2.88000	0.1689230	2.2893029343116
(442691)	17.9	199.39288	73.40426	43.76140	6.21675	0.1053759	2.3590198343116
(442692)	15.8	274.81934	72.79370	278.48035	14.98095	0.1062140	3.0838193343117
(442693)	18.0	216.58870	79.19301	30.48695	6.11503	0.0977225	2.2460099343117
(442694)	18.0	260.82192	102.02922	306.16663	4.45700	0.1044488	2.3545710343117
(442695)	18.2	277.45542	75.70823	327.78053	3.89389	0.1939250	2.1968091343117
(442696)	17.9	294.14891	189.67425	194.94683	6.60452	0.1680649	2.2245939343118
(442697)	17.9	291.26626	205.55786	189.71267	4.64419	0.1320561	2.2330615343118
(442698)	17.7	343.06619	337.81129	347.20645	5.26169	0.1528311	2.2270318343118
(442699)	17.0	333.05506	110.27697	211.91605	6.32505	0.1292830	2.3814097343118
(442700)	17.8	313.22082	274.92890	58.48868	3.05034	0.2295023	2.3865730343119
(442701)	17.7	320.58687	47.39165	252.60388	2.22061	0.1620070	2.4547968343119
(442702)	17.9	205.40922	97.71583	17.70939	8.23805	0.0593873	2.2584503343119
(442703)	17.8	3.90698	265.06642	23.67138	6.63291	0.1054345	2.3102076343119
(442704)	17.7	215.02701	200.01446	261.20584	4.18596	0.0498537	2.3603254343120
(442705)	17.3	260.18413	103.74418	271.90186	4.75755	0.1866550	2.5391314343120
(442706)	17.3	243.80648	99.20435	322.50626	7.42336	0.1428293	2.3744567343120
(442707)	17.7	332.43770	349.28939	338.35139	5.81679	0.2294019	2.2336464343120
(442708)	18.1	16.30200	186.35333	102.85845	5.40140	0.1932066	2.2077694343121
(442709)	18.1	346.50331	117.65885	201.12015	4.66688	0.1833473	2.2917561343121
(442710)	17.6	329.80840	79.54880	228.52330	7.87355	0.1209941	2.3714825343121
(442711)	17.7	330.46503	324.96841	22.97879	8.07217	0.1012203	2.2472713343121
(442712)	17.9	239.12073	331.22701	107.18153	6.91665	0.1222268	2.3081556343122
(442713)	17.1	223.96050	163.79299	243.02227	7.70171	0.1657460	2.6276982343122
(442714)	17.4	3.74864	16.13759	283.78617	3.68654	0.1452060	2.2967955343122
(442715)	17.9	347.20422	56.54289	262.71065	7.04375	0.2472556	2.1772276343122
(442716)	18.2	322.99310	148.27874	209.86693	5.28929	0.1881236	2.2332412343123
(442717)	15.4	75.41424	253.21856	264.38286	10.04568	0.0778057	3.1064728343123

(442718)	16.0	201.92216	170.86831	249.08823	12.51623	0.0327235	2.7425055343123
(442719)	18.1	301.69427	255.02526	124.91753	2.85449	0.1446265	2.2720375343124
(442720)	18.0	354.85123	64.06031	231.57942	1.39005	0.2272320	2.2926270343124
(442721)	18.0	305.29879	315.00743	80.17993	6.05082	0.2447960	2.1704817343124
(442722)	17.2	345.21704	48.47310	233.93585	7.50373	0.1306644	2.4314541343125
(442723)	17.5	293.62059	252.18013	100.26859	3.37412	0.2315083	2.4027474343125
(442724)	17.8	312.55991	230.55402	141.18466	4.74304	0.1668627	2.2342998343125
(442725)	16.4	204.83567	22.37165	77.94680	15.49297	0.1255623	2.5890802343125
(442726)	17.3	198.36191	47.90565	52.19148	6.36123	0.1182255	2.4375373343126
(442727)	17.3	74.40710	5.06761	225.98385	5.28781	0.0703040	2.3620508343126
(442728)	17.8	325.23133	312.66676	47.23409	6.93694	0.1079801	2.2092110343126
(442729)	17.3	254.75036	343.92955	64.69291	7.66685	0.0924337	2.4368350343126
(442730)	18.3	280.24851	327.63080	84.76993	3.53491	0.1380370	2.2578263343127
(442731)	16.8	354.56539	54.44295	220.89696	8.68563	0.0495233	2.6953430343127
(442732)	17.4	274.42710	342.32219	81.80059	6.45078	0.1366393	2.2550524343127
(442733)	17.4	229.84388	210.97812	184.03412	4.21401	0.0783922	2.6382571343127
(442734)	17.8	304.61757	153.94013	220.61744	6.42316	0.1156373	2.2792447343128
(442735)	17.3	265.03430	192.27859	223.54223	5.88495	0.1170998	2.3794335343128
(442736)	17.9	306.96834	253.33417	137.68293	4.20503	0.1759797	2.1940788343128
(442737)	17.5	272.94898	343.64813	67.25144	5.56256	0.1244586	2.2767308343128
(442738)	18.5	298.56643	223.50086	181.76474	2.20591	0.1189278	2.1681706343128
(442739)	18.2	334.92158	117.23116	210.17679	6.09735	0.2465717	2.2504875343129
(442740)	16.5	257.74493	308.85433	71.02228	6.54201	0.1452341	2.5880842343129
(442741)	17.2	307.40569	233.96688	83.72531	4.45710	0.1491008	2.5730347343129
(442742)	17.6	338.00138	141.43520	227.25454	22.53829	0.3845096	2.1003963343129
(442743)	17.7	303.23524	307.26476	79.94713	6.60394	0.1764972	2.2562736343130
(442744)	18.1	337.81459	208.51066	116.38261	3.15315	0.2181648	2.3106254343131
(442745)	18.3	270.86324	290.15739	114.28369	2.94014	0.1780303	2.3651583343131
(442746)	17.5	249.48966	329.74343	95.36472	4.44378	0.1686174	2.4115915343131
(442747)	17.5	305.37915	263.10697	94.74759	4.54354	0.1704049	2.4317021343131
(442748)	17.0	298.15921	74.49370	251.65959	9.84104	0.1305794	2.6385388343131
(442749)	18.3	236.40449	150.31877	284.38010	2.32151	0.1726616	2.4409369343132
(442750)	16.2	341.57438	40.06452	243.34742	11.16202	0.1440123	2.6703229343132
(442751)	17.7	274.40229	43.50927	1.95187	2.83205	0.1569730	2.3330909343132
(442752)	15.7	238.71532	130.27565	301.91246	31.43587	0.1964891	2.6243359343133
(442753)	16.4	246.29341	132.22775	256.08924	12.59524	0.2008078	2.6227542343133
(442754)	17.8	299.80580	154.10814	236.42346	6.44202	0.0986271	2.3453973343133
(442755)	17.5	250.18327	3.64912	74.04002	3.84948	0.1389701	2.3868630343133
(442756)	17.2	267.27635	168.67260	255.88432	8.34195	0.1068792	2.3175065343134
(442757)	17.2	309.90805	246.94918	98.45630	4.95215	0.1021761	2.5235058343134
(442758)	17.5	294.43820	82.97128	302.19034	6.01989	0.1162609	2.2898891343134
(442759)	16.5	225.06120	322.94879	80.15487	14.69274	0.1952472	2.7413687343134
(442760)	17.8	293.75170	282.52770	103.68452	4.67284	0.2108726	2.3136196343134
(442761)	17.5	318.04719	49.82536	294.89694	5.28670	0.1320126	2.4307180343135
(442762)	16.9	105.93988	150.22540	67.22677	13.84688	0.0264311	2.3749953343135
(442763)	13.9	4.76352	84.13888	109.97326	22.25775	0.0913805	5.1570791343135
(442764)	17.7	313.81607	201.20692	150.34715	6.67194	0.1400021	2.3809831343136
(442765)	17.5	304.52171	130.42461	189.66834	2.31160	0.0799579	2.6921496343136
(442766)	17.3	204.25118	328.57719	127.46454	5.64567	0.1523620	2.5627566343136
(442767)	17.7	300.18192	252.18526	117.53036	5.27755	0.0875329	2.3873480343136
(442768)	18.3	286.88819	71.87866	315.71622	1.49852	0.1196439	2.3685968343136
(442769)	16.6	155.08476	60.39699	102.02785	13.43076	0.0863072	2.6997340343137
(442770)	17.9	261.29587	13.73061	49.32749	7.42261	0.0874286	2.3756623343137
(442771)	18.2	223.76775	51.41561	47.08771	6.59620	0.1507568	2.3676924343137
(442772)	16.6	220.89566	13.49185	84.49143	13.81244	0.1242073	2.6116408343137
(442773)	17.0	199.86547	144.85327	318.16366	8.93154	0.1521222	2.7445349343138
(442774)	16.3	112.81309	102.68767	101.13874	18.43263	0.1073835	2.7647963343138
(442775)	17.8	283.29879	157.47855	248.74930	3.56239	0.1415515	2.3163792343138
(442776)	17.1	277.85986	115.77312	282.02599	8.49631	0.2077798	2.3682182343138
(442777)	17.0	150.94176	72.93269	89.51635	9.68949	0.0929500	2.7664528343139
(442778)	16.8	37.79904	137.61835	128.84160	9.15028	0.0242713	2.5342391343139
(442779)	17.6	280.56670	236.50605	146.30357	6.78837	0.1368211	2.4516350343139
(442780)	16.0	27.81686	137.56568	91.14871	11.74612	0.0400045	2.9731884343139
(442781)	16.9	282.65251	217.25694	138.39881	3.89950	0.1634082	2.5567304343139
(442782)	17.1	239.55128	327.63842	110.13594	14.57131	0.1395803	2.5496201343140
(442783)	18.1	317.17345	77.20907	287.70073	3.52436	0.2069381	2.2652498343140
(442784)	18.4	278.55114	199.24649	194.10904	0.77864	0.1767554	2.3624157343140
(442785)	16.6	254.73745	321.17735	106.67616	5.06393	0.2141836	2.5832582343140
(442786)	16.6	220.92871	139.09076	310.23928	32.00673	0.1782488	2.6335798343141
(442787)	18.3	274.63248	16.28442	27.17977	2.46053	0.2233820	2.3388186343141
(442788)	16.7	299.17167	287.26631	83.41985	12.47502	0.1492830	2.5817542343141
(442789)	17.9	258.66178	314.23744	125.00256	2.77840	0.1485209	2.4164390343142
(442790)	17.6	285.71205	308.91215	115.25544	5.32115	0.1981073	2.2977720343142
(442791)	16.8	227.01696	117.26722	313.13142	8.05863	0.1194959	2.7120508343142
(442792)	17.4	253.70240	74.84150	3.33286	5.32147	0.1994921	2.4454395343142
(442793)	15.7	35.51760	332.42465	295.74669	9.89600	0.0847454	3.1128250343142
(442794)	15.8	122.94587	247.21420	274.20220	13.00010	0.2340713	3.1595198343143
(442795)	17.7	278.69393	246.60672	174.27554	0.77386	0.1566312	2.4582203343143
(442796)	18.4	286.71955	297.84803	121.52656	5.42982	0.2157431	2.3682373343143
(442797)	16.2	106.48508	278.25349	294.78773	7.99337	0.2317490	3.0378435343143
(442798)	17.7	256.27747	46.06598	20.78858	3.61484	0.1383644	2.5181180343144
(442799)	17.1	263.49550	42.43844	16.17892	4.53792	0.2257891	2.4837764343144
(442800)	15.5	73.12750	276.89670	315.70465	11.98417	0.2500242	3.1809254343144
(442801)	17.4	234.15565	123.87228	312.20602	4.89505	0.1128278	2.6935363343144
(442802)	17.0	194.98610	10.47454	110.79433	10.66222	0.1341934	2.7306671343145
(442803)	16.7	138.68990	29.26971	131.57539	6.76127	0.0968640	3.0806331343145
(442804)	16.6	318.11669	219.82998	143.81328	6.80710	0.0416478	2.7744388343145
(442805)	16.5	247.45466	294.74575	136.40919	12.51695	0.1709106	2.6870645343145
(442806)	16.6	166.11736	138.72491	348.81284	8.36812	0.1434365	2.9428693343146
(442807)	16.6	189.11865	57.62025	85.20911	14.48134	0.2003434	2.6656957343146
(442808)	16.9	241.24926	40.82431	47.69427	8.47025	0.1549248	2.5779536343146
(442809)	18.3	308.64130	119.01780	284.46128	1.03489	0.2350266	2.2718193343147
(442810)	17.7	311.71019	259.26376	115.68629	2.37197	0.1885665	2.4699589343147
(442811)	16.9	246.47727	125.96740	326.56459	13.41816	0.0460476	2.5615370343147
(442812)	16.8	224.74260	342.39733	108.43063	14.77171	0.2117384	2.6860194343147
(442813)	17.3	237.36719	328.80747	107.79894	4.76024	0.0757571	2.8045404343147
(442814)	16.8	249.69632	72.39497	351.18963	3.74909	0.0916614	2.7863744343148
(442815)	17.9	340.08035	263.11095	83.41341	8.57353	0.1908118	2.2957035343148
(442816)	16.5	205.45295	128.44415	334.09203	13.17232	0.1743710	2.7238960343148
(442817)	17.2	227.58432	80.66576	0.06205	6.22936	0.0155816	2.7390823343148
(442818)	16.8	287.26375	293.23282	87.84370	12.76341	0.1403997	2.6184679343149
(442819)	16.5	206.42178	354.16359	121.79522	13.32383	0.0967471	2.6903435343149
(442820)	17.3	278.97072	129.67834	283.35680	12.54141	0.1407892	2.4423645343149
(442821)	14.9	104.13834	247.81752	289.27178	21.10416	0.0588042	3.1717935343149

(442822)	17.2	248.48664	319.70968	114.38640	10.57877	0.0588210	2.5808150343150
(442823)	16.8	265.40482	144.77803	261.08331	11.16144	0.1125026	2.6310292343150
(442824)	17.7	254.93521	160.81747	284.88777	1.77049	0.1820187	2.4392471343150
(442825)	16.9	171.93207	67.16518	88.30659	4.47372	0.1315582	2.7403344343150
(442826)	16.8	215.95562	2.77071	92.77659	10.79660	0.1699924	2.7348743343151
(442827)	17.0	298.71341	110.44804	264.94449	9.27932	0.1982942	2.5701753343151
(442828)	16.4	67.67221	293.90463	302.19778	10.78703	0.1550615	2.9891778343151
(442829)	17.8	259.62181	353.85837	83.43964	2.32831	0.1565092	2.4412610343151
(442830)	16.4	80.06666	280.47626	300.06835	9.91991	0.1663689	3.0433774343152
(442831)	17.0	33.61015	154.97863	114.28818	5.41208	0.0088566	2.8097621343152
(442832)	17.4	328.86489	262.29265	98.68562	7.14601	0.1371053	2.4436183343152
(442833)	16.7	56.51105	286.73090	310.76593	8.47502	0.0598496	2.9422273343152
(442834)	17.2	218.53518	91.87510	32.94375	8.72571	0.1795603	2.5405961343152
(442835)	16.8	216.80539	330.32268	123.94173	34.37106	0.2116735	2.6414738343153
(442836)	17.5	302.14077	334.51535	57.60037	2.15811	0.1890081	2.3942559343153
(442837)	18.2	311.54646	253.45730	134.81740	6.36715	0.2097617	2.3097953343153
(442838)	15.9	269.92766	100.28150	285.03384	8.00502	0.0182863	2.9768720343153
(442839)	17.4	287.28383	33.31883	354.58305	1.08692	0.1894070	2.4638468343154
(442840)	16.1	89.22617	259.28394	307.13873	11.97598	0.2303608	3.1812835343154
(442841)	16.0	139.59317	37.08032	116.08961	17.53925	0.0502034	3.1014727343154
(442842)	16.1	44.20592	326.54609	291.06815	10.06479	0.0772106	2.9875801343155
(442843)	16.0	289.48755	62.44737	280.45186	7.51374	0.1170405	3.0111353343155
(442844)	17.7	315.00984	56.37257	339.21949	6.58676	0.2019942	2.3513761343155
(442845)	16.2	61.13764	272.17397	322.40044	16.20973	0.0967333	3.0935321343155
(442846)	17.1	194.07083	59.73558	61.50872	5.65696	0.1808288	2.7001248343155
(442847)	17.1	334.51537	234.71753	106.80060	5.52273	0.2371420	2.4514017343156
(442848)	17.7	358.96850	39.44524	278.41719	4.55024	0.1435767	2.3846008343156
(442849)	16.7	335.06370	239.61654	103.53313	5.98182	0.0548934	2.7137063343156
(442850)	16.4	35.96864	311.90922	335.55389	6.96780	0.2011795	2.7816446343157
(442851)	17.6	272.91427	318.91207	88.32147	4.46667	0.1745379	2.5590316343157
(442852)	17.4	208.52288	99.95795	9.51448	4.19840	0.0754323	2.7230548343157
(442853)	16.8	267.42272	73.25304	332.21730	11.24026	0.1801042	2.5365257343157
(442854)	17.0	266.20718	105.62629	286.96311	5.86266	0.0618627	2.7124731343158
(442855)	17.1	227.24295	95.63651	349.27320	2.83166	0.0951564	2.7527431343158
(442856)	16.9	208.17274	6.24642	121.15240	6.56600	0.1319454	2.6855733343158
(442857)	17.5	296.84517	185.86463	200.33617	2.27587	0.2288573	2.4860551343158
(442858)	17.9	304.08267	97.44106	284.97597	1.80407	0.1604573	2.5247917343158
(442859)	17.3	201.58709	221.27665	236.10214	0.79813	0.0354494	2.8137500343159
(442860)	16.5	28.86987	116.01353	147.69811	16.56297	0.2123474	3.0961295343159
(442861)	17.6	304.50042	167.17860	193.89173	8.69148	0.1295094	2.6806465343159
(442862)	16.5	231.42765	185.89344	242.92944	10.69293	0.0131519	2.8693774343159
(442863)	17.1	30.51562	135.44745	160.20822	14.36615	0.1875120	2.6489244343160
(442864)	16.6	32.86987	101.84995	159.14418	11.87584	0.0497508	2.9830500343160
(442865)	16.9	5.68918	87.16319	202.85021	10.74319	0.0790919	2.9502235343160
(442866)	16.7	43.89407	73.99645	170.21621	10.25499	0.0892092	3.1082961343160
(442867)	16.9	303.39621	219.98039	151.72821	24.53972	0.1347066	2.5859818343161
(442868)	16.9	291.96267	140.60961	243.81484	12.02910	0.1517060	2.5554465343161
(442869)	17.4	235.24793	352.55754	87.33872	4.06777	0.0791374	2.6528825343161
(442870)	15.9	14.06679	323.55298	308.18596	15.67148	0.1972825	3.1463102343161
(442871)	16.6	66.82469	94.94010	128.78391	11.51921	0.0385876	3.0638436343162
(442872)	17.7	118.18887	279.46669	279.33419	0.70081	0.0111261	2.7256645343162
(442873)	16.8	242.93908	135.15805	300.04548	7.69210	0.0582459	2.6622781343162
(442874)	17.4	25.22523	163.52921	133.86887	4.34949	0.0695677	2.6849395343162
(442875)	16.2	129.98142	225.13762	290.38110	8.77842	0.0685213	3.0926144343162
(442876)	17.1	188.66295	6.22328	121.28952	12.88904	0.0680607	2.7201432343163
(442877)	16.3	275.12954	263.95340	131.52211	10.43296	0.1955723	2.7451767343163
(442878)	17.2	257.02025	356.27152	73.92411	10.09336	0.1394809	2.6009296343163
(442879)	17.2	231.48913	302.48598	143.25528	6.16121	0.2008683	2.6292605343163
(442880)	17.3	200.36923	7.30833	120.74007	16.08625	0.0351371	2.6034800343164
(442881)	18.0	267.77518	250.74070	176.94515	1.06276	0.1554087	2.4359085343164
(442882)	16.2	226.07069	280.98888	122.83777	10.27917	0.0881520	3.1228892343164
(442883)	17.3	268.85906	285.03323	133.31780	15.24261	0.0820644	2.5873934343164
(442884)	15.8	61.35370	311.14896	297.11646	13.38068	0.1709425	3.0417521343164
(442885)	17.4	203.61370	26.17600	77.19797	2.98651	0.0164349	2.8468197343165
(442886)	16.9	322.68352	358.95942	341.08161	5.76171	0.0766060	2.7728061343165
(442887)	17.3	300.05505	282.55123	90.51758	7.15719	0.0506998	2.6860760343165
(442888)	16.8	113.66452	184.12749	351.85445	3.81333	0.0852267	3.0794317343165
(442889)	17.0	249.41100	296.75806	129.01904	13.76201	0.1391495	2.6157293343166
(442890)	17.0	224.94011	96.22897	342.96140	3.74969	0.0353481	2.7953005343166
(442891)	16.8	288.39988	85.93303	321.88015	15.11935	0.0721436	2.5961203343166
(442892)	16.3	96.03373	244.19321	330.02978	14.31588	0.0159827	3.0255719343166
(442893)	17.2	266.27580	89.21969	322.48964	9.74095	0.1328212	2.6282110343167
(442894)	16.8	258.62495	266.66635	152.48421	14.81030	0.0913630	2.6891107343167
(442895)	16.2	228.77278	109.93970	318.76769	14.09299	0.1289791	2.8643178343167
(442896)	17.6	299.24279	324.32869	76.72599	3.85650	0.1668534	2.4419027343167
(442897)	17.7	302.05014	80.36132	313.39999	10.20614	0.0976223	2.5281044343167
(442898)	17.1	266.18230	282.87602	155.82309	5.36665	0.1611679	2.4388329343168
(442899)	15.3	133.37211	43.73269	143.61373	28.64058	0.1144592	3.1319730343168
(442900)	17.1	221.75431	283.14970	186.37404	9.55370	0.1355707	2.6888483343168
(442901)	16.4	122.47634	61.82085	167.25738	14.56441	0.1147315	2.6984919343169
(442902)	15.7	207.61784	288.32829	132.08645	17.12370	0.1286922	3.1851780343169
(442903)	16.4	172.50638	87.29406	104.87646	9.66226	0.0551429	2.5554401343169
(442904)	17.1	260.62365	317.58825	87.43611	4.61687	0.0694083	2.8939158343169
(442905)	16.8	276.40260	77.88399	328.49631	25.86949	0.2249787	2.5740986343170
(442906)	16.8	85.37911	90.55963	125.97219	7.55605	0.0310861	3.0683079343170
(442907)	17.2	269.34105	295.81563	135.00125	9.89348	0.1067372	2.5730316343170
(442908)	16.9	317.27648	26.37050	343.65345	5.61763	0.0638306	2.7637350343170
(442909)	16.1	341.57955	208.23821	120.58783	33.68912	0.1871553	2.6265790343171
(442910)	17.0	255.91560	311.23913	99.17176	2.88000	0.0623027	2.8061576343171
(442911)	17.0	306.36850	80.44588	305.41504	14.07885	0.1486711	2.5471332343171
(442912)	16.6	95.30959	264.90641	310.10447	12.07145	0.1120064	3.0858447343171
(442913)	16.1	340.79282	329.76011	344.39033	8.85994	0.0871064	3.1637759343172
(442914)	15.7	0.21432	309.91655	341.35319	8.95752	0.0089787	3.2271961343172
(442915)	16.2	148.58054	8.96067	132.45361	17.94324	0.1398983	3.1466988343172
(442916)	16.9	283.90435	69.85515	338.59260	14.19849	0.0865805	2.6314680343172
(442917)	17.6	259.19237	10.73847	61.06213	2.58408	0.0779805	2.6559965343173
(442918)	16.5	334.55889	29.24819	333.30987	14.06775	0.1119585	2.6056985343173
(442919)	16.3	319.33778	59.77254	279.93382	8.66060	0.0321908	3.1657563343173
(442920)	17.3	260.60492	324.91445	93.92982	4.65348	0.0824769	2.7485026343173
(442921)	17.7	282.76641	320.37394	92.91357	4.32952	0.1208336	2.6034682343174
(442922)	16.3	57.78026	286.75723	333.90452	10.40231	0.1125525	3.0506286343174
(442923)	15.8	112.44120	207.54555	355.07542	7.76681	0.1031192	3.1974118343174
(442924)	17.9	303.98402	165.44703	240.31919	2.36588	0.2281314	2.2763115343174
(442925)	17.0	350.72272	289.20670	54.39556	2.26894	0.1991034	2.4141616343175

(442926)	15.9	195.63740	163.26053	299.29074	11.83073	0.0579859	3.0672939343175
(442927)	17.1	109.25044	264.13770	321.59238	3.91994	0.0299980	2.7456184343175
(442928)	17.1	260.33198	317.65527	121.42934	5.75089	0.1599326	2.6043310343175
(442929)	16.1	42.19660	321.42425	294.91129	8.60310	0.0631112	3.1948189343175
(442930)	16.8	317.81883	77.79259	294.88324	4.84826	0.0436421	2.7152760343176
(442931)	16.0	201.42647	144.51103	306.00902	9.68136	0.0616617	3.1473226343176
(442932)	15.9	45.61178	102.25249	155.23672	17.92624	0.0973709	3.2133618343176
(442933)	16.7	256.73194	115.42107	313.62180	5.23548	0.1213928	2.7091714343176
(442934)	16.8	240.08427	121.50844	321.22788	12.32868	0.2324301	2.6562261343177
(442935)	17.2	225.99266	306.54529	155.46345	12.50700	0.1388507	2.6383470343177
(442936)	16.3	355.25357	5.84473	298.14410	15.34647	0.0726126	3.0395413343177
(442937)	17.0	314.18934	219.51857	147.38272	14.64870	0.1220547	2.6035425343177
(442938)	16.1	160.96762	152.88830	346.04360	9.79935	0.0215093	3.1669984343178
(442939)	17.6	300.11741	272.64274	148.27739	22.47166	0.2862750	2.2885957343178
(442940)	16.6	167.54364	27.95768	108.97832	10.86419	0.0469191	3.0120210343178
(442941)	16.3	102.81681	59.23905	151.45412	16.36695	0.1355916	3.1461937343178
(442942)	16.0	155.93638	40.02986	109.13422	11.95757	0.0089813	3.0813847343178
(442943)	15.6	134.04262	199.73797	337.81167	16.27392	0.1405513	3.1614932343179
(442944)	16.5	63.30560	69.19831	181.17902	10.64107	0.1283478	3.1784786343179
(442945)	16.5	249.33489	90.71046	351.29178	12.42284	0.1497266	2.6719251343179
(442946)	16.0	150.24719	24.19403	131.39124	14.32082	0.2132820	3.1583058343180
(442947)	16.7	200.65309	138.44163	322.64683	8.95813	0.0711242	3.0318720343180
(442948)	16.5	35.59797	328.53707	322.03345	10.69493	0.0870545	2.9631080343180
(442949)	17.5	288.40017	89.83644	313.28351	3.30685	0.0968505	2.6526591343180
(442950)	16.8	238.28583	328.44181	122.98289	12.19903	0.0435953	2.7331360343180
(442951)	15.9	73.57773	245.70822	344.35227	10.25841	0.0409615	3.1168852343181
(442952)	16.9	153.92753	233.45378	313.23071	1.59910	0.0286991	2.6771949343181
(442953)	16.8	247.70527	120.34936	325.69277	7.54011	0.1358858	2.6788641343181
(442954)	15.5	92.99873	72.91764	160.87872	18.23829	0.1132320	3.1598811343181
(442955)	16.0	319.76522	12.38776	353.36282	11.70376	0.0782523	2.8820672343182
(442956)	15.8	128.68893	183.88431	359.97546	12.07348	0.1458653	3.1718977343182
(442957)	17.1	274.80810	5.07918	80.31872	4.15450	0.0323185	2.6279426343182
(442958)	17.2	188.80402	60.94823	71.95637	10.62875	0.1323541	2.7541478343183
(442959)	16.2	108.65156	39.54351	133.69808	11.79339	0.1066610	3.2337160343183
(442960)	16.6	163.43918	154.41613	342.15864	9.91287	0.1572378	3.1734690343183
(442961)	15.9	1.61071	185.42352	128.40551	10.00681	0.0250879	3.0498878343183
(442962)	16.9	265.36050	348.28180	92.30797	5.97749	0.1533513	2.5637761343184
(442963)	15.9	133.67900	92.32369	85.79591	6.65663	0.1246261	3.2039019343184
(442964)	16.1	141.80215	129.91182	41.42221	4.81030	0.0850337	3.2020963343184
(442965)	16.2	151.53240	187.52282	337.29690	10.44763	0.0848863	3.0892890343184
(442966)	16.0	323.86313	26.17205	324.19024	10.40770	0.0688835	3.0186894343185
(442967)	16.8	146.46521	21.94072	172.94265	5.09982	0.0908343	2.8023238343185
(442968)	15.4	116.87746	61.23978	109.59300	14.85381	0.1650329	3.4149433343185
(442969)	16.7	183.96071	106.95173	54.47898	13.44748	0.1335623	2.5696517343185
(442970)	16.2	207.38574	123.95370	9.04434	14.40192	0.1184243	2.6715062343186
(442971)	16.7	264.79840	69.43092	12.90364	13.63606	0.1481468	2.5238198343186
(442972)	16.5	336.41795	61.13271	306.79580	5.39311	0.0479844	2.6927602343186
(442973)	16.6	246.00144	90.84157	355.96714	10.23037	0.1651332	2.7569416343186
(442974)	16.6	139.77906	191.21625	340.27879	13.49093	0.0276979	2.9873046343187
(442975)	17.5	278.34561	303.41457	94.04773	5.64962	0.1961275	2.7069698343187
(442976)	16.5	321.26452	274.06504	98.29065	5.27344	0.1182917	2.7647469343187
(442977)	17.3	272.93656	90.47311	352.33560	13.00536	0.1141957	2.5394143343187
(442978)	16.2	24.82901	146.89249	148.73939	10.41764	0.0735745	3.1265778343187
(442979)	16.5	353.99636	174.23128	147.50153	11.39645	0.0433519	3.1606695343188
(442980)	15.6	0.33973	165.46465	148.21154	16.34925	0.0818573	3.0898051343188
(442981)	16.2	285.30386	51.06477	339.30618	7.67297	0.0627228	2.9887819343188
(442982)	16.9	277.25688	265.88283	142.85485	6.79659	0.0610532	2.8602620343189
(442983)	16.5	333.13726	200.04386	165.05331	11.02005	0.1316238	2.8099211343189
(442984)	16.2	257.89347	80.66767	340.68772	9.91311	0.1317030	2.8648791343189
(442985)	16.6	229.32110	97.72202	351.24358	8.74600	0.0760190	2.9823493343189
(442986)	16.8	291.35479	246.13758	170.66698	6.36122	0.0265415	2.7657369343190
(442987)	17.0	183.12613	49.52996	76.99528	3.59308	0.0730955	3.1059142343190
(442988)	16.0	248.16153	49.38913	14.24586	10.78278	0.1021102	2.9948328343190
(442989)	16.7	190.96099	148.53032	318.31160	7.30373	0.1336746	3.1138381343190
(442990)	17.4	316.00068	233.32063	172.82633	2.62760	0.1916124	2.4275430343190
(442991)	16.0	312.27165	26.00319	331.90853	10.86270	0.0840185	3.1672970343191
(442992)	17.7	291.96253	103.56235	312.15857	5.75315	0.1594580	2.3665658343191
(442993)	16.8	316.40158	57.43437	320.04162	14.09419	0.1458110	2.6235528343191
(442994)	16.8	260.40466	341.84372	72.80502	4.54163	0.1916253	2.7327167343191
(442995)	16.5	163.50357	190.04858	304.56892	8.61979	0.0984414	3.1309158343192
(442996)	15.6	233.99794	100.33698	323.08315	14.94691	0.0281955	3.1549965343192
(442997)	16.5	193.29703	12.02838	156.42418	11.89891	0.0703255	2.6349851343192
(442998)	17.3	271.62123	91.43207	330.34673	5.36881	0.2216758	2.5234648343192
(442999)	17.0	219.44488	55.40395	60.82488	8.55226	0.1534054	2.5630462343193
(443000)	16.1	113.79773	56.25006	126.06244	17.51882	0.0186515	3.1840678343193
(443001)	16.1	289.85137	79.64093	321.42588	8.44844	0.0668696	3.1094660343193
(443002)	16.4	156.02573	9.02153	171.05811	20.30721	0.0769823	2.8362898343193
(443003)	17.3	206.36654	89.66493	26.11027	6.89756	0.0811397	2.7934614343193
(443004)	16.3	281.36602	35.50807	344.51598	8.87064	0.0985106	2.9862378343194
(443005)	17.9	257.02678	82.87045	351.72326	3.23031	0.2040140	2.5826288343194
(443006)	15.7	24.25601	148.95596	143.48244	28.29505	0.1819072	3.1552934343194
(443007)	16.0	129.12934	270.97603	281.62566	8.40343	0.0250333	3.0090104343194
(443008)	16.7	84.02579	150.39150	73.22766	6.09438	0.0738102	3.0832223343195
(443009)	16.7	335.27942	20.67577	335.42723	17.81615	0.2101784	2.6273719343195
(443010)	16.8	191.53819	153.92294	317.22296	4.45293	0.1233743	3.0857776343195
(443011)	17.0	146.00378	41.25126	161.22729	12.82525	0.0436666	2.6765711343195
(443012)	16.3	251.05082	116.19376	297.28812	9.69800	0.0554917	3.0544541343196
(443013)	16.2	166.44690	143.75680	348.94807	10.11687	0.0389280	3.1937860343196
(443014)	17.7	259.66698	87.08689	350.44834	3.21856	0.1899985	2.5446574343196
(443015)	16.4	292.38454	271.52602	127.51272	29.87322	0.1697940	2.5499844343196
(443016)	16.4	18.21769	311.94312	348.98435	11.87336	0.0849299	2.9075080343197
(443017)	15.9	129.65869	200.41789	341.36344	14.73447	0.1340495	3.0824869343197
(443018)	16.3	304.44203	132.81035	232.41108	7.47274	0.0343141	3.0524938343197
(443019)	15.8	106.05051	256.70967	331.39251	14.57274	0.0348542	3.0952786343197
(443020)	15.3	8.19533	353.25781	319.16052	21.67849	0.1161795	3.0374034343198
(443021)	16.7	66.23530	262.12011	352.71866	9.62720	0.0419132	3.0783675343198
(443022)	16.7	304.55121	355.97021	24.43080	2.17799	0.0710405	2.9140616343198
(443023)	16.2	160.67093	336.46062	160.66792	18.13687	0.0863758	3.2596555343198
(443024)	16.5	309.52748	13.39951	358.71446	15.26804	0.0406484	3.0348528343199
(443025)	16.4	330.60919	66.55175	275.85111	8.63625	0.1080339	3.0080749343199
(443026)	17.1	242.14583	300.76948	150.59674	9.87017	0.1391155	2.7944026343199
(443027)	15.6	48.28423	167.44932	79.71069	6.81987	0.1705655	3.9581073343199
(443028)	16.9	257.96584	276.83066	166.53457	11.56843	0.1691951	2.6984812343200
(443029)	16.5	147.36107	50.10877	149.85521	4.54648	0.0064572	2.7233378343200

(443030)	16.2	276.32483	333.72957	93.27960	3.19301	0.0451942	2.8380675343200
(443031)	16.2	14.31029	197.10392	120.24403	3.47346	0.0805699	3.0930390343200
(443032)	16.2	152.05893	161.89035	4.30510	15.16732	0.1269636	3.1712975343201
(443033)	16.0	46.78570	118.96914	141.51228	11.89260	0.0845566	3.1044698343201
(443034)	16.2	223.48495	108.10460	346.21422	10.65516	0.0021758	3.1508061343201
(443035)	16.9	25.33508	163.20623	165.49627	4.93854	0.0689986	2.7782330343201
(443036)	16.1	189.64105	126.53101	353.20404	6.75851	0.0814425	3.1829113343202
(443037)	17.5	271.11814	257.59090	165.22363	8.90329	0.1516144	2.5709187343202
(443038)	16.1	125.20474	18.65377	176.88769	9.18043	0.1386606	3.2183130343202
(443039)	16.9	332.61933	228.41455	154.69447	6.38383	0.0538385	2.7219516343202
(443040)	15.2	119.66789	227.29382	346.34614	22.79485	0.1078100	3.1371773343203
(443041)	16.4	267.67630	317.40782	106.95483	12.12165	0.1932868	2.7085004343203
(443042)	16.9	351.92775	336.05922	24.42263	2.79497	0.0830807	2.7933477343203
(443043)	15.7	72.04640	307.90490	311.35860	8.21913	0.0498943	2.9979660343203
(443044)	17.3	243.36793	341.64900	127.34358	7.55382	0.2880839	2.6189777343204
(443045)	15.6	114.85281	192.69337	22.36643	10.52567	0.0136887	3.1783369343204
(443046)	15.1	86.57084	232.73902	327.26431	10.22986	0.1669640	3.9552917343204
(443047)	15.5	126.93813	99.92628	107.04609	10.78039	0.0186701	3.1027277343204
(443048)	15.7	207.68641	300.17140	174.60225	5.39788	0.0881622	3.1244089343205
(443049)	16.2	13.55275	31.83451	301.54131	0.36660	0.0350625	2.9749268343205
(443050)	15.8	294.96401	337.68967	60.58726	8.62601	0.0167351	3.2163110343205
(443051)	17.1	241.78893	82.26293	30.28454	12.58557	0.2583381	2.5502302343205
(443052)	16.4	100.45260	257.28124	338.03164	8.25133	0.0867846	3.0516367343206
(443053)	16.4	280.81938	279.38680	170.61435	22.01584	0.0433478	2.6425862343206
(443054)	16.3	193.24582	66.72999	80.28726	15.48236	0.0745385	2.9962298343206
(443055)	17.2	231.74660	116.37852	330.59394	4.37544	0.0298114	2.7907835343206
(443056)	15.5	314.44738	270.45234	105.68300	23.08430	0.0637307	3.0939100343207
(443057)	15.4	354.18469	249.24673	88.05427	13.09050	0.0883967	3.2118847343207
(443058)	16.0	108.58183	94.66387	130.49746	11.22396	0.0316799	3.1214649343207
(443059)	16.2	172.24455	2.61450	150.53800	12.00025	0.0278801	3.1569654343207
(443060)	16.2	224.56185	278.26082	175.56508	12.58900	0.1854761	3.0549641343207
(443061)	16.0	211.20671	14.14179	108.29273	3.99245	0.0290200	3.1238188343208
(443062)	15.6	177.01231	145.03295	7.87335	8.94896	0.0502646	3.1994679343208
(443063)	15.8	228.48355	83.68027	22.23524	11.72542	0.0434258	3.0709895343208
(443064)	16.5	240.92044	339.54438	151.02436	12.99087	0.1259235	2.6753669343209
(443065)	15.9	106.18317	114.02724	101.22418	11.76615	0.0567884	3.0352987343209
(443066)	16.7	284.97082	102.23451	317.78909	13.50375	0.0791361	2.6375958343209
(443067)	16.9	224.67847	299.97548	183.53106	13.58840	0.1642877	2.7239824343209
(443068)	16.5	276.02041	249.33287	184.56793	4.68218	0.1061759	2.7386260343210
(443069)	16.5	316.05335	275.19882	128.11693	6.79921	0.0644819	2.7699037343210
(443070)	16.5	226.65696	262.96130	207.60681	9.53506	0.0635946	2.9737210343210
(443071)	15.7	143.41143	69.51201	115.68140	10.24717	0.0838892	3.0410508343210
(443072)	16.6	326.34421	23.55121	358.09404	5.97902	0.0794325	2.8928312343211
(443073)	15.7	353.99253	160.12906	187.17192	15.91871	0.0828118	3.1821405343211
(443074)	15.5	175.60065	211.09322	309.24220	5.01432	0.0474395	3.1325132343211
(443075)	16.2	234.84198	18.59569	77.78641	14.90889	0.0909482	3.0803653343211
(443076)	16.1	231.70411	43.13994	56.35374	10.59584	0.0303885	3.0302141343212
(443077)	15.8	258.91580	331.72737	97.09809	10.80644	0.0957217	3.0571172343212
(443078)	15.6	38.12699	299.63394	16.83333	16.60249	0.1085737	3.1476825343212
(443079)	15.7	212.29652	65.75182	58.22662	11.59184	0.0367275	3.1610043343212
(443080)	16.6	205.31042	91.18937	37.27129	5.41669	0.1006177	3.1482280343213
(443081)	15.5	181.24408	345.91546	171.61154	17.28016	0.0583174	3.1915254343213
(443082)	15.5	196.10610	102.12482	26.91096	8.75992	0.1062961	3.2163799343213
(443083)	15.7	154.28875	22.62343	172.48470	18.28981	0.1076238	3.0288747343213
(443084)	16.0	187.28737	358.10974	140.25567	11.48973	0.1548610	3.1522433343214
(443085)	16.1	204.28610	342.08724	147.60180	2.32621	0.0681886	3.1576625343214
(443086)	15.2	57.85250	124.68179	121.55624	6.90948	0.1615187	3.9898286343214
(443087)	16.1	208.96799	310.16378	172.79498	10.35788	0.0716131	3.1566914343214
(443088)	16.7	305.87442	273.75749	135.83330	2.99991	0.0709787	2.8754849343215
(443089)	17.0	231.96673	341.37921	129.62473	14.95001	0.1846577	2.6076170343215
(443090)	16.1	133.36506	71.69454	126.79017	12.96945	0.0652465	3.1334232343215
(443091)	16.2	180.90378	119.45230	70.03820	11.47053	0.0851444	2.8345467343215
(443092)	15.9	2.91721	331.86030	45.52388	15.48796	0.1415861	2.5370946343215
(443093)	16.0	190.60640	1.85337	140.84801	16.65031	0.0490764	3.0681987343216
(443094)	15.5	182.13118	2.82223	161.20886	20.11657	0.0555758	3.2163015343216
(443095)	15.8	250.32437	307.89363	163.56347	10.80716	0.1016930	2.8678013343216
(443096)	16.6	192.73368	288.69256	203.70635	9.58127	0.1711351	3.1877898343216
(443097)	16.7	353.18197	101.51865	264.21425	3.95369	0.1155251	3.1318594343217
(443098)	17.2	306.27170	227.13400	169.45761	0.40945	0.1815268	3.1675408343217
(443099)	15.9	129.72300	162.79733	39.89609	10.78682	0.0306977	3.4315037343217
(443100)	16.2	181.85376	41.95811	113.31641	8.53982	0.1280448	3.1169674343217
(443101)	15.5	155.91340	97.68946	77.06603	16.09664	0.0761135	3.1673162343217
(443102)	17.9	34.78157	347.76650	244.49705	18.34100	0.0529385	1.9868051343218
(443103)	18.0	216.06451	98.98655	322.80147	21.47280	0.1921165	1.0346938343218
(443104)	24.3	89.19000	265.65176	268.40959	6.99430	0.2033774	1.0456214343219
(443105)	17.6	161.49926	192.01401	266.17368	6.13229	0.0643855	2.2955826343219
(443106)	17.6	150.75561	224.28061	241.62443	3.43505	0.1337768	2.3503722343220
(443107)	17.0	142.79082	197.81277	271.81535	5.70281	0.0623595	2.3913493343220
(443108)	17.4	350.30969	153.63945	120.11381	13.63514	0.1110849	2.3650665343220
(443109)	17.2	108.33664	212.66909	314.63902	5.30351	0.1144414	2.4172752343220
(443110)	16.6	114.92485	10.21957	114.54482	22.76395	0.0552435	2.5772559343221
(443111)	16.8	134.31864	340.43536	136.08717	10.03649	0.0888460	2.6146241343221
(443112)	18.4	348.26198	28.79702	302.70498	19.36320	0.0750456	1.8462711343221
(443113)	18.0	98.87385	221.49523	324.02644	5.21556	0.1177344	2.3142247343221
(443114)	18.0	100.47518	139.38048	47.12422	0.35417	0.1427968	2.2766925343222
(443115)	16.5	86.29363	35.27559	111.03101	13.61893	0.0479028	2.7590130343222
(443116)	18.1	105.44898	50.77947	130.10070	7.32026	0.0409890	2.2540903343222
(443117)	18.4	104.46630	31.19379	150.90446	1.24271	0.1182096	2.2445205343222
(443118)	16.9	132.07816	323.91976	142.58347	13.17023	0.1602912	2.7204294343223
(443119)	17.6	251.23500	286.48745	138.32641	24.32472	0.0130656	1.8945197343223
(443120)	17.5	53.87299	305.87864	311.21072	18.04137	0.0579575	1.9291542343223
(443121)	17.5	255.49980	276.82242	131.54928	24.94993	0.1196164	1.9801440343223
(443122)	17.9	54.53548	296.99288	285.39164	6.41733	0.0708660	2.2118376343224
(443123)	17.6	320.38020	26.80717	313.88831	17.85788	0.0712117	1.9530969343224
(443124)	17.2	38.92549	7.53524	253.83235	7.03572	0.1682232	2.3425728343224
(443125)	17.6	139.51627	208.78261	334.46661	20.00229	0.0556612	1.8995832343224
(443126)	17.6	111.70154	222.81930	307.33657	5.52778	0.0964304	2.1941780343225
(443127)	18.0	234.83898	17.60905	64.40637	20.54643	0.0990755	1.8734556343225
(443128)	17.7	34.34292	311.29641	329.75646	18.17685	0.0563049	1.9248665343225
(443129)	18.1	310.14956	49.26990	321.37128	15.08580	0.0947157	1.8673406343225
(443130)	17.6	132.79134	199.32917	354.10248	19.56148	0.0576174	1.9210945343226
(443131)	17.8	22.75285	315.84329	337.04722	18.91612	0.0540607	1.9392483343226
(443132)	17.2	79.54253	228.15664	319.87962	4.13833	0.1836547	2.6309602343226
(443133)	17.4	49.55965	154.66817	73.17703	5.82907	0.1886848	2.4098426343227

(443134)	17.3	69.98472	285.44625	298.79212	4.77737	0.1299598	2.2871012343227
(443135)	16.7	112.23383	5.01375	138.56548	14.36125	0.0841864	2.6631698343227
(443136)	16.6	137.03163	323.32311	140.92805	14.11630	0.1549145	2.7462964343227
(443137)	17.8	67.75041	72.22243	163.56157	2.63856	0.1841708	2.3145843343228
(443138)	17.5	277.30668	275.66125	125.81772	23.91424	0.1080100	1.9351844343228
(443139)	18.1	58.46537	263.98162	324.82147	0.66610	0.1705927	2.2641769343228
(443140)	17.9	100.83059	40.63579	147.70737	3.40233	0.0949259	2.2583477343228
(443141)	18.2	214.86644	135.60196	321.72818	17.60539	0.1169801	1.9666484343229
(443142)	18.1	96.58669	110.41175	93.13228	2.38691	0.1598776	2.2902454343229
(443143)	17.6	55.25341	93.65081	148.98704	5.42557	0.1484074	2.4290856343229
(443144)	16.4	268.57821	19.66705	334.83470	5.72618	0.0408077	2.7185332343229
(443145)	17.7	103.30805	173.73182	4.48488	5.16711	0.1371088	2.3714527343230
(443146)	17.9	96.74313	48.16653	137.16234	3.10803	0.1445639	2.4638391343230
(443147)	17.7	71.05060	82.48264	140.40246	4.41175	0.0423323	2.2690489343230
(443148)	17.8	57.61802	303.28563	305.20319	0.74581	0.1446823	2.2480797343231
(443149)	17.9	233.97025	94.12125	350.18054	20.61113	0.0844192	1.8931471343231
(443150)	16.9	113.17923	188.63976	354.21509	12.30238	0.2771167	2.7503373343231
(443151)	16.3	195.84274	13.70837	53.08264	6.07401	0.0106684	2.6981265343231
(443152)	18.0	99.65474	141.72979	52.10012	3.09339	0.1356583	2.3573997343232
(443153)	16.9	24.70952	121.53585	113.58221	9.50967	0.0788653	2.6606336343232
(443154)	17.9	40.11957	226.02526	26.11811	2.61192	0.1570180	2.3337384343232
(443155)	16.7	18.13164	300.47343	323.73268	29.91102	0.2616816	2.6368850343232
(443156)	17.9	79.57207	273.87838	313.67556	2.28878	0.0959685	2.2410645343233
(443157)	17.6	16.19028	201.54371	60.34574	2.44985	0.1823333	2.5450376343233
(443158)	18.1	182.16372	127.80493	2.88798	8.30762	0.1893328	1.9943768343233
(443159)	17.4	68.32553	276.18428	319.30842	1.89749	0.1417344	2.4428889343233
(443160)	17.8	107.09875	242.94403	302.38839	6.35287	0.0426664	2.2918229343234
(443161)	17.7	115.07501	182.08710	356.16369	2.49264	0.1354163	2.3646767343234
(443162)	16.3	191.20772	270.23498	140.18529	16.51004	0.1962486	2.7178458343234
(443163)	17.5	101.91134	177.88504	17.30346	4.85252	0.1639362	2.4770203343235
(443164)	17.9	233.05807	107.86047	334.15937	18.41864	0.0896177	1.9066479343235
(443165)	17.3	97.94357	43.80174	142.54584	9.21140	0.0890762	2.4113667343235
(443166)	16.9	97.81646	127.21337	71.57066	9.58108	0.1754251	2.4307309343235
(443167)	17.9	146.52270	24.66281	126.28117	4.38340	0.1253431	2.2923674343236
(443168)	17.0	19.01064	189.92761	87.35693	7.79132	0.0995051	2.4509559343236
(443169)	17.6	144.92199	60.83533	84.77480	5.55536	0.0986287	2.3617855343236
(443170)	17.8	99.58713	243.34159	305.13900	0.72682	0.1290636	2.4205428343237
(443171)	16.6	20.97743	172.62207	95.68360	8.07759	0.2041516	2.5156860343237
(443172)	18.1	133.86012	125.10828	43.62769	5.30169	0.0712756	2.2612315343237
(443173)	16.8	60.00289	116.91097	127.32107	9.39274	0.1782756	2.4817952343237
(443174)	17.2	34.79549	167.57777	110.71595	3.48031	0.1728228	2.4003926343238
(443175)	17.2	45.70978	281.90141	311.38193	4.00571	0.0994630	2.5547262343238
(443176)	17.5	78.97086	320.90434	254.01216	1.67783	0.1475712	2.4020366343238
(443177)	16.7	278.27015	233.51460	110.07724	4.16654	0.0587976	2.9795234343238
(443178)	17.1	97.06173	161.15738	26.32975	4.76757	0.0827426	2.5895070343239
(443179)	17.7	86.99523	51.53340	137.95563	1.64948	0.1235006	2.5882930343239
(443180)	18.2	134.17832	139.35804	30.90801	3.90373	0.0964731	2.2731430343239
(443181)	17.9	97.23922	173.29195	34.49893	4.84445	0.1722343	2.4208219343239
(443182)	17.4	62.27044	65.30155	150.97373	12.41913	0.1384318	2.5608916343240
(443183)	16.7	22.74256	293.75997	324.88531	10.21452	0.3056733	2.8667372343240
(443184)	17.9	52.77059	337.01343	277.39542	6.70528	0.1000665	2.2605678343240
(443185)	17.3	38.36938	135.44269	125.14436	7.04746	0.0954875	2.4211714343241
(443186)	17.5	50.90094	134.38763	116.98910	3.55382	0.1562928	2.4552395343241
(443187)	17.1	66.21769	282.37251	293.47271	7.16013	0.1274735	2.6234324343241
(443188)	17.6	59.32606	258.77261	325.37626	6.77022	0.0700688	2.2717680343241
(443189)	17.1	2.79823	136.96107	119.34031	7.22582	0.1014402	2.6645794343241
(443190)	17.8	229.95758	304.56735	126.96501	7.25366	0.0642106	2.2276907343242
(443191)	17.4	75.15983	114.90983	110.48654	6.55857	0.0689834	2.4154110343242
(443192)	17.4	119.04114	213.53217	336.84819	6.02347	0.0676463	2.3454700343242
(443193)	17.2	132.20713	164.48337	356.75091	5.69723	0.0315282	2.5703568343242
(443194)	16.8	32.55704	233.46847	50.03373	3.37380	0.1697953	2.4096870343243
(443195)	17.9	133.48239	77.56829	91.12653	3.45321	0.1060355	2.3419322343243
(443196)	17.6	122.92067	93.23670	90.47193	2.22456	0.1012065	2.3324970343243
(443197)	17.3	52.71249	103.36419	160.82287	2.14320	0.1635654	2.4277224343244
(443198)	16.4	38.56499	72.66924	153.69119	12.68020	0.0566045	3.1163295343244
(443199)	17.4	104.61815	62.36854	140.26795	8.04116	0.0484859	2.3352476343244
(443200)	17.7	125.52636	68.69969	116.01273	5.04630	0.1233584	2.3246134343244
(443201)	17.5	86.41561	102.71838	107.58420	5.96212	0.1553016	2.6247403343244
(443202)	17.2	0.20844	218.47826	84.18864	4.28332	0.0668281	2.5257050343245
(443203)	16.8	94.23054	165.17106	32.85025	9.66803	0.0709142	2.6056762343245
(443204)	16.9	339.58319	278.46353	52.44264	7.12735	0.1535538	2.4684517343245
(443205)	18.1	165.76462	352.20838	133.88484	4.45828	0.1582813	2.3952613343245
(443206)	17.6	128.83398	53.31638	112.36067	5.28319	0.0900869	2.5381965343246
(443207)	17.9	177.99135	7.42858	117.21186	7.13198	0.1386104	2.2734224343246
(443208)	18.3	172.45950	39.16696	100.38403	6.15787	0.1246313	2.2176756343246
(443209)	17.9	35.30057	143.94755	133.28682	5.28530	0.0894747	2.2827124343246
(443210)	16.8	26.65833	37.74878	224.80924	7.82154	0.1576751	2.5259884343247
(443211)	16.4	162.24455	337.81866	119.02832	3.15671	0.0551740	2.9274433343247
(443212)	17.6	49.78735	274.77974	341.07761	6.17091	0.0916543	2.3580738343247
(443213)	17.4	24.01844	271.35287	358.79731	2.16638	0.1676270	2.4502395343247
(443214)	17.3	309.10198	8.87919	311.36421	1.82869	0.0658577	2.5939148343248
(443215)	17.1	329.76078	218.56797	114.11028	3.91273	0.0420196	2.6336657343248
(443216)	18.2	172.99051	3.64708	127.10598	1.63212	0.0591819	2.2064404343248
(443217)	17.8	249.02138	198.01729	220.06847	5.63713	0.0603335	2.2502918343248
(443218)	17.5	39.34532	177.82423	109.66716	3.38410	0.2119409	2.3403109343249
(443219)	17.3	245.70968	114.44651	293.67254	3.84851	0.0859734	2.2942363343249
(443220)	16.7	188.03042	74.54876	0.21251	2.50054	0.1021585	2.7031094343249
(443221)	17.8	57.54272	262.18989	331.40538	7.61352	0.0726118	2.3357405343250
(443222)	18.4	129.85282	153.12708	21.01294	1.46086	0.0528994	2.1622550343250
(443223)	17.3	4.18668	297.73229	353.65884	8.43650	0.1580030	2.5748210343250
(443224)	17.0	276.00747	187.22065	169.04881	6.43215	0.0621840	2.6728596343250
(443225)	18.3	105.02976	45.44030	158.17675	5.32011	0.0700612	2.2559969343250
(443226)	18.0	121.32089	146.85874	24.33107	1.67681	0.1276932	2.4315525343251
(443227)	17.5	19.41275	103.98731	186.14565	0.87916	0.1726796	2.4309919343251
(443228)	17.3	44.68888	165.08814	94.41128	4.84400	0.0881554	2.6570231343251
(443229)	18.4	158.13560	22.77601	117.56834	4.17016	0.0812397	2.2189466343252
(443230)	17.7	104.24078	241.83274	314.79571	1.09500	0.1251222	2.3615609343252
(443231)	17.0	329.50522	150.70194	185.88200	9.93120	0.1673630	2.4807066343252
(443232)	16.5	21.14779	302.32862	337.19528	13.05203	0.2730437	2.6279951343252
(443233)	17.0	88.87911	237.09095	330.38093	13.04337	0.0938873	2.4033606343253
(443234)	17.4	33.02642	85.71542	169.61836	5.49376	0.1135948	2.6628972343253
(443235)	17.4	5.05433	198.81415	100.23162	3.64168	0.1890980	2.6122356343253
(443236)	17.3	55.99734	310.27314	286.84984	8.28091	0.1095367	2.3093069343253
(443237)	17.4	72.99619	45.68647	175.18276	13.31546	0.2012974	2.6248429343254

(443238)	17.7	155.05897	146.59215	6.01860	5.60053	0.0590579	2.2164026343254
(443239)	18.0	147.16628	94.20463	50.39806	1.90538	0.1254777	2.3684713343254
(443240)	17.5	105.23356	178.19508	17.25990	2.57983	0.1591149	2.4247663343255
(443241)	17.8	100.89323	97.49952	104.46563	2.29628	0.1171174	2.3852219343255
(443242)	16.8	251.99510	221.90369	156.25350	6.05736	0.0542270	2.6988766343255
(443243)	16.6	99.53538	336.14752	175.75785	9.33906	0.0845674	3.1372354343255
(443244)	17.3	189.56457	273.07946	167.18026	11.91429	0.1575696	2.5285225343255
(443245)	17.4	72.45764	106.35856	104.02062	4.42082	0.1299911	2.7418731343256
(443246)	16.7	344.97858	311.11065	6.14946	8.50373	0.1626500	2.4763633343256
(443247)	18.0	108.03275	60.47460	120.87590	2.56425	0.1123278	2.4102807343256
(443248)	17.4	92.59382	310.92463	265.01434	5.83713	0.1738987	2.3137980343256
(443249)	17.7	123.13658	53.42823	116.34433	5.56024	0.1654966	2.3618540343257
(443250)	16.5	64.03896	310.71803	278.10803	8.16427	0.2229690	2.7186615343257
(443251)	17.1	66.62247	189.78086	50.25424	5.49533	0.1270364	2.4094724343257
(443252)	17.7	247.74114	226.67359	163.45210	7.00783	0.1225404	2.4381516343257
(443253)	18.1	156.31101	5.46564	129.37022	3.05036	0.1565566	2.3714060343258
(443254)	18.6	216.33224	12.21559	74.04172	1.35564	0.0980998	2.1713458343258
(443255)	17.0	20.39775	131.07132	161.75469	7.91339	0.2596716	2.5796608343258
(443256)	17.4	82.40250	204.23183	6.81244	3.00803	0.1370431	2.5945929343258
(443257)	17.5	65.06380	112.84059	137.94817	1.86874	0.1508230	2.3906493343258
(443258)	18.0	167.19953	9.78087	129.96406	5.59970	0.0556403	2.1892503343259
(443259)	16.9	349.89688	280.64758	50.71090	5.66195	0.2314283	2.4494497343259
(443260)	17.2	129.23067	67.76843	109.07326	6.57073	0.0830444	2.3282249343259
(443261)	17.4	14.67799	173.51180	120.61061	5.67266	0.1852295	2.4437343343260
(443262)	17.5	276.41715	234.77795	171.08598	23.75073	0.1089761	2.0103367343260
(443263)	17.6	95.65064	193.43738	2.84594	5.03134	0.1961249	2.5638513343260
(443264)	16.8	184.68004	19.13162	57.31346	3.07871	0.0416966	2.8980233343260
(443265)	17.6	48.82082	204.77123	48.75044	5.90237	0.0862082	2.3906615343260
(443266)	17.1	67.55272	69.44259	143.99677	12.87287	0.1118475	2.7078467343261
(443267)	18.0	136.06489	79.87461	96.10463	4.69040	0.0977897	2.2017064343261
(443268)	18.0	55.71269	243.12761	11.06716	6.05391	0.0993859	2.3382816343261
(443269)	16.9	283.08205	221.44287	134.00158	5.62084	0.1274137	2.5885184343261
(443270)	16.8	28.10410	309.81901	313.11216	6.57142	0.1718736	2.7414319343262
(443271)	16.3	6.23556	141.57419	131.33053	1.73810	0.1395611	3.0018901343262
(443272)	17.4	346.72413	219.25877	93.94814	3.35436	0.1070370	2.5160513343262
(443273)	17.0	106.73504	257.75448	244.45800	3.19912	0.0603143	3.1255988343263
(443274)	17.6	85.26394	140.33521	71.46925	5.19027	0.0951645	2.4538140343263
(443275)	16.2	307.41144	156.49580	157.30647	10.27409	0.0318813	3.1696580343263
(443276)	16.8	139.77080	356.78078	151.57842	14.27759	0.0915562	2.5600191343263
(443277)	17.4	86.08996	94.67546	106.40621	5.41899	0.0919207	2.6649747343264
(443278)	17.4	47.98639	199.82108	56.98047	5.76256	0.1538010	2.5554146343264
(443279)	17.5	348.15303	244.74090	89.77475	5.43045	0.1272183	2.2217709343264
(443280)	17.4	341.09343	197.21461	121.81564	4.54980	0.0410067	2.3608501343264
(443281)	17.6	110.06239	39.75992	140.06171	6.38296	0.0685044	2.4828208343265
(443282)	17.4	43.72149	188.60284	83.05604	6.71608	0.1124961	2.3079883343265
(443283)	16.4	40.81662	243.29594	20.97340	12.82292	0.2402603	2.6955241343265
(443284)	16.4	353.72327	266.17900	37.18450	11.25736	0.1316737	2.5478791343265
(443285)	17.5	190.90005	22.84066	83.35947	7.53421	0.0554768	2.3158246343266
(443286)	17.2	45.97412	130.94435	119.84113	5.37790	0.1099870	2.5650355343266
(443287)	17.9	288.19487	251.68505	170.47552	22.87853	0.0875763	1.9182544343266
(443288)	17.0	75.34442	164.30905	56.21463	3.70513	0.1993827	2.7140786343266
(443289)	16.7	342.32827	224.57320	96.18856	10.79915	0.2114226	2.5782026343266
(443290)	15.9	204.59239	328.44134	76.00071	10.20437	0.1352241	3.0508190343267
(443291)	17.3	49.32255	186.58719	52.25190	4.75743	0.1482396	2.6675962343267
(443292)	17.3	72.94666	183.22997	33.40058	6.13535	0.2136266	2.7572766343267
(443293)	16.2	210.46860	307.76001	98.62289	9.89382	0.0214210	3.1416825343267
(443294)	17.7	73.67000	137.32533	98.65867	7.03425	0.0624037	2.3360663343268
(443295)	16.3	2.95313	167.01641	115.63370	9.55207	0.1335399	2.8509630343268
(443296)	16.8	65.02645	112.84425	113.45620	9.76511	0.0598554	2.5833470343268
(443297)	16.8	35.65372	1.75064	258.95057	2.79256	0.0840843	2.6233232343268
(443298)	17.7	87.74999	319.76981	260.61696	3.68374	0.1773468	2.3265295343269
(443299)	16.9	286.97393	69.84260	267.72984	4.82609	0.0641425	2.6430938343269
(443300)	16.4	54.79744	273.70404	305.12924	10.60468	0.1116434	2.6834732343269
(443301)	16.8	68.22898	141.72709	90.43498	4.93095	0.1280673	2.7570681343269
(443302)	17.9	45.31309	85.61105	179.38592	4.83476	0.2327333	2.5470763343270
(443303)	16.4	73.32336	260.46674	324.10608	11.64383	0.1797401	2.5911841343270
(443304)	16.7	30.46383	302.93101	319.56370	12.52058	0.1316179	2.6974767343270
(443305)	18.3	144.80186	322.80073	203.93518	5.80572	0.0621308	2.2594940343270
(443306)	17.0	55.07003	295.33941	295.41835	4.06148	0.1087731	2.7777334343271
(443307)	16.2	87.78644	117.68794	44.96420	1.91005	0.1133380	3.1240201343271
(443308)	16.8	18.81713	117.78197	171.67970	11.22286	0.1881569	2.7463954343271
(443309)	16.5	51.14828	90.71675	162.65987	9.23260	0.1651665	2.7528893343271
(443310)	15.5	253.87751	353.78345	52.48854	11.78602	0.0214451	3.0868978343272
(443311)	17.4	70.09164	199.62883	46.27993	3.24889	0.1227994	2.6277192343272
(443312)	16.7	91.74031	107.23074	106.91371	8.62537	0.1622379	2.8066925343272
(443313)	16.4	31.05537	165.74116	106.80629	10.37936	0.1247104	2.7675342343273
(443314)	17.5	76.45599	268.52459	328.88412	1.86858	0.1529679	2.4498040343273
(443315)	16.9	70.01920	277.54722	328.18108	10.82757	0.1555151	2.3997629343273
(443316)	16.9	277.50559	291.19014	65.53393	4.17406	0.1083416	2.6181412343274
(443317)	17.9	100.33891	184.51668	354.13455	2.18708	0.1361098	2.4246307343274
(443318)	16.5	81.09429	173.13856	48.36406	13.35763	0.1062209	2.6871487343274
(443319)	17.5	116.43270	135.79087	36.23935	2.04746	0.0594629	2.6225617343274
(443320)	16.8	88.18526	347.72512	253.81710	11.15798	0.2050468	2.4480337343274
(443321)	17.2	107.44829	209.79668	350.43646	9.23485	0.1112363	2.3868020343275
(443322)	17.0	65.34447	340.20628	274.68721	5.76070	0.0970782	2.4120126343275
(443323)	16.4	313.30968	121.38367	230.19084	8.14565	0.0603409	2.5260930343275
(443324)	18.2	172.22809	74.89518	54.95252	2.20215	0.1291947	2.3362586343276
(443325)	16.9	42.19564	42.73836	223.17299	4.40465	0.1317848	2.6621124343276
(443326)	16.7	90.40857	331.01446	236.73094	7.72743	0.0711563	2.6742474343276
(443327)	17.2	35.94961	106.48531	179.13222	7.28133	0.1008406	2.4552635343276
(443328)	17.3	125.66786	81.84727	104.52963	8.18916	0.1148158	2.3958985343277
(443329)	17.1	83.93414	95.71154	155.74229	6.22152	0.0227916	2.2411746343277
(443330)	16.1	30.11207	153.85856	119.54519	14.05074	0.1919719	3.0876655343277
(443331)	16.6	123.42605	118.40795	75.72097	12.95825	0.0821617	2.5356206343277
(443332)	16.3	48.05747	266.45386	337.54290	8.86560	0.1525385	3.0563261343278
(443333)	18.2	18.15386	150.38051	195.19996	21.64141	0.0769523	1.8989307343278
(443334)	17.4	98.55005	216.33953	338.14893	2.22696	0.0579533	2.6454377343278
(443335)	17.7	122.02480	180.49792	353.17429	2.16490	0.0864733	2.5695954343278
(443336)	16.2	37.03065	261.36308	6.97547	14.07950	0.3102359	3.0978238343279
(443337)	15.9	336.04598	246.81672	75.64334	11.99778	0.0602398	3.1415503343279
(443338)	15.2	336.47716	240.89346	83.40619	10.56889	0.0853935	3.1492086343279
(443339)	17.7	132.38441	15.96390	146.94114	7.25788	0.0490980	2.3526039343280
(443340)	17.0	109.34541	351.77870	186.44243	17.47489	0.1202008	2.6620901343280
(443341)	16.5	17.34962	260.11808	31.57370	15.97489	0.2209763	2.8960983343280

(443342)	17.3	85.22398	266.92886	310.39228	0.14401	0.1451751	2.6461540343280
(443343)	17.0	56.83798	118.16597	118.66800	4.44498	0.1493069	3.1145361343281
(443344)	16.9	51.32071	70.04310	168.89576	4.89341	0.0768379	3.0830677343281
(443345)	16.5	69.82614	301.89080	270.09607	1.83905	0.1478025	3.0440435343281
(443346)	16.6	8.38548	27.67519	262.24606	2.67515	0.0647376	2.7584251343281
(443347)	16.0	34.24174	251.85571	352.34980	13.49608	0.0706692	3.1672430343282
(443348)	15.5	38.39151	154.23455	84.62663	4.00711	0.1571889	3.9484506343282
(443349)	16.5	5.27180	214.00292	76.24744	2.05879	0.0916245	3.1539676343282
(443350)	17.1	288.60539	341.89552	36.67011	5.18173	0.0602626	2.6963048343282
(443351)	16.4	57.12982	98.93098	158.15984	10.57697	0.0893818	3.1060890343283
(443352)	17.2	34.83225	199.73456	74.43653	4.91066	0.0190951	2.7029147343283
(443353)	15.4	46.90673	110.87390	119.15586	26.58675	0.2187035	3.2290945343283
(443354)	16.2	13.06857	278.76525	15.23112	7.51304	0.2892407	3.0892573343284
(443355)	16.4	32.80579	62.81368	204.94664	9.63954	0.0732322	3.0187605343284
(443356)	16.7	342.32628	253.84119	59.91650	5.67691	0.0919295	2.7694179343284
(443357)	17.4	30.14631	235.03256	65.95337	5.15352	0.1818101	2.4028289343284
(443358)	16.3	37.19718	83.17446	173.56390	17.42662	0.2630502	3.1729413343285
(443359)	17.1	6.92735	244.73514	62.69407	6.38676	0.1395373	2.5723219343285
(443360)	16.4	3.95743	281.24271	11.33531	8.98628	0.0937500	3.1785325343285
(443361)	16.4	76.47677	179.22593	52.65311	16.35381	0.1276889	2.6768936343285
(443362)	16.2	56.58279	161.42722	94.59353	5.84839	0.1506728	2.6965560343286
(443363)	17.3	127.27293	125.74942	38.93844	2.37138	0.1526548	2.6199500343286
(443364)	16.6	323.82878	332.19875	38.04745	8.68230	0.1402597	2.4896510343286
(443365)	16.8	121.05040	288.75789	257.20545	7.84164	0.1219889	2.6483436343286
(443366)	16.3	67.49247	129.43711	112.15228	6.56041	0.0226708	2.5450226343287
(443367)	16.6	149.49970	123.82514	20.48615	10.94163	0.0523163	2.8601783343287
(443368)	16.6	97.58416	328.49043	234.12549	1.78833	0.0699658	2.5853025343287
(443369)	15.8	35.54486	170.55260	103.13452	17.42595	0.0665109	3.1539591343288
(443370)	16.9	36.47969	218.16522	59.45030	4.62918	0.0340283	2.6480122343288
(443371)	17.1	177.31197	303.74914	175.85140	10.92439	0.0744331	2.5377930343288
(443372)	16.0	116.10161	103.19979	56.21843	13.53067	0.0963583	3.0466779343289
(443373)	16.7	34.81624	227.60220	61.86855	5.66803	0.0466983	2.7546763343289
(443374)	15.7	57.41762	29.68764	225.34239	11.55813	0.1128348	3.0937617343289
(443375)	16.3	355.64141	188.12979	105.49857	9.70126	0.0421112	3.1157414343289
(443376)	17.3	111.75179	106.05261	69.44380	4.08020	0.1023320	2.7756156343290
(443377)	16.3	14.67144	276.32178	15.20070	15.40744	0.2237066	2.9400456343290
(443378)	15.8	23.67458	213.94653	70.10657	8.09135	0.1616914	3.0361445343290
(443379)	17.8	180.37044	15.51980	111.30110	4.08982	0.1382099	2.4466461343291
(443380)	17.2	27.34570	169.80554	110.99559	3.77157	0.0516457	2.7844137343291
(443381)	17.2	70.39010	169.94385	70.74237	6.57092	0.0320299	2.6898271343291
(443382)	17.3	26.47371	212.70280	68.89167	5.48137	0.0314872	2.7829948343291
(443383)	17.0	150.53151	50.39027	97.90604	3.22898	0.0049407	2.8634497343291
(443384)	16.2	77.68353	173.14205	43.80948	9.80078	0.0364577	3.0309111343292
(443385)	16.7	24.65310	94.15516	195.58980	8.18119	0.1798285	3.0315835343292
(443386)	17.3	346.70248	282.39734	48.27743	4.07680	0.0586160	2.6631691343292
(443387)	16.4	328.04132	308.83028	33.82009	4.43500	0.1100274	2.7719408343293
(443388)	17.4	155.57061	280.81052	238.42234	0.23410	0.0150488	2.5138535343293
(443389)	17.4	23.67327	83.09867	203.21420	3.67944	0.0749765	2.7780812343293
(443390)	18.2	194.22871	110.04362	12.94247	3.69591	0.1092345	2.3384004343293
(443391)	18.2	273.39290	64.26943	351.00165	2.90520	0.1076999	2.2643465343294
(443392)	16.4	18.92794	48.23195	227.24690	9.79247	0.0847923	3.1257354343294
(443393)	15.6	9.81880	195.13443	107.90119	18.94857	0.1418223	3.1667846343294
(443394)	17.1	42.77540	64.11613	206.36639	14.01338	0.0912329	2.5801229343294
(443395)	16.3	12.29701	139.09407	153.04951	3.33247	0.1323538	3.0309045343295
(443396)	16.7	52.15302	122.79298	118.64033	2.85553	0.0560197	3.0535963343295
(443397)	17.5	350.21657	176.18792	147.98718	5.02403	0.0188774	2.6672630343295
(443398)	16.6	6.99118	111.88811	184.98781	12.21949	0.0887157	3.0630352343295
(443399)	16.5	41.08835	67.51255	196.37792	13.88824	0.1687028	3.1517475343296
(443400)	17.9	317.29983	226.62703	159.56564	6.35128	0.1174930	2.2512087343296
(443401)	16.8	72.60418	154.09180	77.00943	6.85932	0.2119899	2.9805817343296
(443402)	16.6	9.15098	266.41560	78.04648	10.87590	0.1976240	2.3493632343297
(443403)	16.5	313.71084	275.30460	72.08891	11.76552	0.0601155	3.0597962343297
(443404)	17.1	316.19829	264.60007	95.54333	7.31678	0.0474179	2.7092207343297
(443405)	16.7	14.21212	117.83332	168.02125	2.55850	0.0900879	2.9862410343297
(443406)	17.3	290.60472	262.70736	118.30273	7.29865	0.1000856	2.6706274343298
(443407)	16.2	323.50978	225.77560	115.38691	8.11131	0.1493396	3.0721584343298
(443408)	18.0	181.26809	78.21279	68.86579	4.78645	0.0605036	2.2770143343298
(443409)	17.2	130.36815	93.16280	79.66927	4.76520	0.0305751	2.7626030343298
(443410)	16.4	78.92811	189.33720	55.08663	14.92207	0.0833959	2.5684024343299
(443411)	17.4	271.39391	350.67311	40.96836	6.63216	0.0449172	2.7227839343299
(443412)	18.0	153.25649	111.18636	47.93985	3.68476	0.1414038	2.3943489343299
(443413)	17.2	23.38351	149.70187	132.71024	3.14666	0.0239068	2.6928765343299
(443414)	17.9	187.83811	21.92516	94.71721	4.63027	0.1368632	2.4514306343300
(443415)	17.6	272.34869	231.01871	181.73155	6.14012	0.1254195	2.3057143343300
(443416)	17.0	81.51101	79.98842	124.52561	2.11959	0.0948701	3.1189931343300
(443417)	17.5	175.07750	320.02136	166.11843	3.96490	0.0350479	2.7387937343301
(443418)	17.7	7.02059	208.58244	115.32872	2.81988	0.1473598	2.5674763343301
(443419)	16.9	349.92047	214.04396	100.57011	3.25191	0.0658892	2.9109591343301
(443420)	16.8	350.20713	119.15690	194.41934	10.23262	0.0931484	3.0242659343301
(443421)	16.9	326.77254	201.36230	145.46888	4.44031	0.1221272	2.7822114343301
(443422)	17.2	338.29857	186.00261	151.39962	5.03973	0.1146481	2.7810990343302
(443423)	17.3	299.04824	320.40877	60.76898	10.37469	0.0694618	2.5442578343302
(443424)	16.0	332.26948	228.29636	106.46222	7.04167	0.1705933	3.1820975343302
(443425)	16.8	40.74671	164.06424	104.02927	5.71657	0.0858434	2.8956546343302
(443426)	17.5	288.40838	272.76678	118.41040	6.63056	0.1394992	2.5611109343303
(443427)	17.8	309.40839	272.07015	116.58166	5.39122	0.1273549	2.3577120343303
(443428)	16.9	349.93169	228.92466	104.79951	7.64917	0.1527429	2.8363604343303
(443429)	16.7	0.39153	7.01670	318.57647	5.15052	0.1231307	2.5874222343303
(443430)	16.8	313.25341	347.36423	8.90316	5.67460	0.0598722	2.7038043343304
(443431)	16.6	44.69842	220.27621	66.71642	6.99031	0.2087513	2.4317757343304
(443432)	17.0	45.70216	68.44092	203.82505	3.63587	0.0638143	2.7642000343304
(443433)	16.8	103.81360	198.54476	349.20704	4.34875	0.1191634	2.9882174343305
(443434)	17.1	357.25285	225.73530	78.91521	2.21958	0.0524198	2.9617312343305
(443435)	17.2	334.37722	171.24509	193.56212	6.79738	0.2308748	2.4485459343305
(443436)	17.1	50.28841	225.48010	25.49208	1.98343	0.0446872	2.9460811343305
(443437)	15.9	8.65691	348.64235	287.99447	1.48186	0.1616705	3.9245041343305
(443438)	16.9	192.55138	127.46865	345.11766	3.33031	0.0151854	2.7745871343306
(443439)	17.2	5.00822	139.20289	171.32360	6.49868	0.0215223	2.7249073343306
(443440)	16.6	285.01475	159.93938	231.07540	5.23218	0.0453974	2.7278264343306
(443441)	17.2	223.72181	42.88058	41.87219	4.62111	0.0723571	2.7617743343306
(443442)	16.2	198.89560	66.72257	30.78720	10.48672	0.0427252	3.0998143343307
(443443)	17.0	60.84539	173.90483	76.27208	6.01669	0.0584695	2.7165086343307
(443444)	16.5	4.52023	183.34904	114.75985	6.74000	0.1253866	3.1299986343307
(443445)	16.4	21.59480	220.72386	59.04236	6.33887	0.1376545	3.1740459343307

(443446)	17.0	67.42242	110.84263	131.08532	5.84742	0.0597967	2.7125735343308
(443447)	16.4	72.64911	48.41985	180.37668	11.08729	0.1387132	2.9431999343308
(443448)	16.7	330.97660	242.63569	106.73797	7.61661	0.0880626	2.7531017343308
(443449)	17.0	35.06237	122.52100	150.16253	8.34310	0.1617828	3.1054801343308
(443450)	17.2	105.34898	73.32777	160.70387	10.05543	0.0816524	2.3347870343309
(443451)	16.8	26.83676	354.42442	271.66587	3.54993	0.0794677	2.8026138343309
(443452)	15.8	352.01466	219.41979	88.98842	12.08660	0.0085935	3.0890611343309
(443453)	16.5	18.27180	154.96218	143.87367	8.29181	0.1171085	2.7338164343309
(443454)	16.4	223.19798	353.37650	85.68811	10.27898	0.0362443	2.6598102343310
(443455)	16.2	14.68811	46.27122	259.86309	5.15653	0.0414253	2.7661124343310
(443456)	15.9	46.73378	140.54760	119.17520	18.58842	0.1446451	3.1592399343310
(443457)	17.4	21.79340	221.65191	100.14747	6.80878	0.1532919	2.3494800343311
(443458)	16.8	126.68377	109.53756	77.82905	5.88446	0.0459942	2.7687678343311
(443459)	17.2	107.45011	33.72426	180.64421	5.10340	0.0157754	2.6618585343311
(443460)	15.6	12.82206	198.36986	104.25706	12.64897	0.1322438	2.9923598343311
(443461)	16.1	4.33493	284.29587	12.18422	11.68499	0.2414144	2.8817395343312
(443462)	16.0	22.25725	137.03051	156.25281	9.56026	0.0901208	3.1162352343312
(443463)	16.2	302.23439	342.42011	51.87109	14.59918	0.1717050	2.5451709343312
(443464)	17.0	296.29653	340.96825	62.76672	7.16345	0.1291423	2.4178648343313
(443465)	17.1	330.19554	192.93398	153.18980	6.84535	0.0188660	2.7423583343313
(443466)	16.5	37.13547	252.54456	27.30546	10.11540	0.1691618	3.0642757343313
(443467)	17.1	12.99292	189.46171	107.86792	3.20449	0.0426738	2.8684516343314
(443468)	17.3	111.07531	66.19484	129.42958	3.01355	0.0068374	2.8390784343314
(443469)	17.8	222.81704	25.67038	78.01830	5.64674	0.0607358	2.3897202343314
(443470)	17.1	14.67083	213.04435	83.21230	3.21176	0.0402260	2.8661322343314
(443471)	16.4	328.52976	295.76433	52.53534	10.55720	0.0840275	2.9305603343315
(443472)	16.5	105.13472	31.77986	174.17222	6.60223	0.0491687	2.9605035343315
(443473)	16.8	113.71016	109.72495	84.20804	13.44839	0.1668325	2.6436620343315
(443474)	16.3	9.57055	95.03881	212.71288	10.58421	0.0711384	2.9703977343315
(443475)	16.6	358.95329	187.67813	130.99265	3.40598	0.0726298	2.9686222343316
(443476)	17.2	310.42431	294.90543	78.21463	7.07657	0.0540171	2.7184333343316
(443477)	17.6	11.88831	213.51161	114.71512	3.67728	0.1167619	2.5849081343316
(443478)	16.8	341.18479	129.96049	216.60070	13.39594	0.0644397	2.6824275343316
(443479)	16.4	10.09904	226.41430	73.95658	9.48881	0.0643615	3.1494724343317
(443480)	16.5	163.53413	303.65141	205.29772	12.11083	0.1191876	2.6584013343317
(443481)	16.5	319.96116	289.99347	80.58930	10.16956	0.0413320	2.5865887343317
(443482)	17.2	346.81848	143.17057	201.82463	5.97824	0.1600846	2.4459460343317
(443483)	17.1	66.35888	175.99337	79.70714	7.86179	0.0894965	2.3893358343318
(443484)	16.5	1.64194	154.51496	139.15404	2.56614	0.0444939	2.8034451343318
(443485)	15.6	40.22877	356.51846	262.50577	15.30560	0.0664081	3.2186874343318
(443486)	15.5	345.20619	222.25328	103.94256	11.49477	0.1359621	3.0857804343318
(443487)	17.3	110.49863	39.77449	158.67006	9.35154	0.1267612	2.6941216343319
(443488)	16.7	127.33183	95.86032	82.81703	7.74844	0.2214170	2.7773602343319
(443489)	16.3	47.42197	140.80252	111.99457	14.30540	0.0887149	3.1392003343319
(443490)	16.5	36.73011	221.65201	88.46604	9.86631	0.1747693	2.7267832343319
(443491)	16.3	355.04001	214.88875	100.23168	6.97320	0.0903476	3.1776217343320
(443492)	16.6	179.66880	68.51436	72.82672	15.88768	0.0914309	2.5892884343320
(443493)	15.9	18.69449	176.50696	131.16191	15.72532	0.1296129	2.9745520343320
(443494)	16.5	110.21906	65.61763	125.06457	12.72152	0.1183991	2.8603899343321
(443495)	16.4	72.05137	97.91685	131.33835	14.09184	0.1327649	3.0932305343321
(443496)	16.5	356.66759	205.75353	131.28925	14.60529	0.1883034	2.8397080343321
(443497)	16.3	332.34386	232.81461	111.69530	19.35440	0.0351078	3.0858738343321
(443498)	16.9	20.66199	154.05209	145.68458	4.24176	0.0593007	2.6941418343321
(443499)	17.1	252.03023	337.45127	81.44757	4.07903	0.0497547	2.8087750343322
(443500)	16.9	10.08637	149.29542	159.07419	2.28919	0.0631747	2.8595938343322
(443501)	16.9	7.02264	104.34619	205.36362	6.78202	0.0257761	2.8070765343322
(443502)	17.1	49.96561	130.60408	139.63232	2.72465	0.0382431	2.8314900343323
(443503)	16.6	7.41726	164.24380	148.26416	1.24592	0.1750220	3.1416349343323
(443504)	16.7	293.97547	198.93220	202.85252	11.55795	0.1484682	2.4554308343323
(443505)	15.6	18.04674	231.08153	70.54603	11.92111	0.0950978	3.0244835343323
(443506)	16.9	204.01768	264.97044	211.91790	5.71621	0.0101152	2.8057819343324
(443507)	16.6	6.03544	258.98986	61.49554	6.84966	0.0944055	2.9074640343324
(443508)	16.1	166.15527	22.57739	115.87616	9.87943	0.0940263	3.1571387343324
(443509)	16.9	348.41239	130.80157	199.34654	1.55759	0.1065131	2.9245972343324
(443510)	17.6	220.49777	54.38661	48.56746	4.84474	0.0173821	2.5412761343325
(443511)	17.4	340.12487	313.63861	33.09718	1.51733	0.0944051	2.6886218343325
(443512)	17.3	139.52250	137.43487	36.46990	6.16490	0.0249826	2.6921729343325
(443513)	15.9	330.46577	293.84335	52.68316	7.47611	0.0995885	3.0794757343325
(443514)	16.4	25.63467	221.64344	64.16508	10.71803	0.0902099	3.2261200343326
(443515)	16.7	69.72272	15.45514	226.45302	8.77521	0.0990222	3.0475743343326
(443516)	16.6	26.44996	217.95376	70.62266	5.75727	0.0921974	3.1277622343326
(443517)	16.9	59.60052	126.68133	125.80325	11.18057	0.2009674	3.0075371343326
(443518)	16.1	46.08716	164.19346	110.36210	17.97540	0.1911776	3.0532272343326
(443519)	16.7	324.20561	233.78457	130.84746	6.59863	0.0380820	2.7168945343327
(443520)	17.5	5.81900	213.88919	128.95502	6.76703	0.0861696	2.4676881343327
(443521)	16.2	338.76142	146.07056	200.25845	10.03910	0.1335375	3.1151003343327
(443522)	17.2	145.49920	72.93707	88.35355	8.69001	0.1585885	2.7630365343327
(443523)	17.3	80.87458	222.01596	24.68803	3.68155	0.1470156	2.7432564343328
(443524)	16.6	7.70532	181.43723	146.96124	5.68948	0.1072565	2.7807577343328
(443525)	16.3	70.86797	40.74770	190.31121	10.32850	0.1606281	3.1637743343328
(443526)	16.5	37.47500	170.87313	112.72570	6.77856	0.0388850	2.8920187343328
(443527)	16.1	25.38465	78.27782	208.00142	9.58538	0.0542853	3.1853590343329
(443528)	17.4	154.32057	76.84982	93.07981	6.69401	0.1701749	2.3769191343329
(443529)	17.0	131.54914	136.45012	35.62676	4.27040	0.1771747	2.7582414343329
(443530)	16.5	192.84639	250.05482	239.18219	8.50875	0.0757715	2.5890204343329
(443531)	16.8	65.29977	51.58397	212.09641	3.66979	0.0757749	2.7380056343330
(443532)	16.6	62.70945	105.11294	143.51341	1.70950	0.1082411	3.0831847343330
(443533)	16.6	103.70537	326.10598	252.63995	5.18743	0.0043821	2.7981681343330
(443534)	16.4	59.21490	61.99319	185.14185	11.21371	0.2338834	3.1526454343331
(443535)	15.9	7.52281	145.95774	153.84535	9.90830	0.0701826	3.1354677343331
(443536)	16.6	72.84480	115.62837	111.45630	17.04433	0.1707011	3.1734772343331
(443537)	16.3	55.70817	44.10291	199.77100	10.47912	0.1429473	3.1542335343331
(443538)	16.1	348.24969	166.74585	151.25908	10.01622	0.0906473	3.1377548343332
(443539)	16.8	93.76162	178.17508	17.10463	3.34547	0.0884787	2.5752967343332
(443540)	16.9	102.49976	125.99967	76.16026	10.66174	0.1563561	2.6617471343332
(443541)	16.3	92.08120	71.24807	136.15066	17.54935	0.1842082	3.1238016343333
(443542)	16.9	22.88370	262.05408	28.53645	4.82019	0.0472755	2.7686447343333
(443543)	17.2	39.39716	74.11915	217.89883	4.34370	0.0831772	2.6810678343333
(443544)	16.4	350.03394	108.13001	236.15295	4.87418	0.1335674	2.8921331343333
(443545)	16.5	30.82164	160.45406	137.43785	0.92668	0.2045421	3.1489329343334
(443546)	17.1	37.10039	180.39255	107.82512	3.22234	0.0351399	2.8684860343334
(443547)	16.9	55.70137	180.55316	80.96493	5.89163	0.0816137	3.1034888343334
(443548)	16.5	52.64360	195.00174	67.26052	7.93224	0.1197703	3.1328677343334
(443549)	15.8	9.84073	145.38105	155.90603	8.80327	0.1095441	3.1707710343335

(443550)	16.1	358.87102	222.89862	103.08903	13.54313	0.1289677	2.8749595343335
(443551)	16.2	41.64535	132.31874	134.84449	10.79083	0.0770936	3.0616619343335
(443552)	16.3	347.98283	268.48034	74.62544	12.34801	0.1238922	2.9281099343335
(443553)	16.9	233.53689	259.90473	204.35963	7.75518	0.0872660	2.4378554343336
(443554)	16.3	263.86143	202.28784	213.65038	11.44852	0.0395170	2.9099769343336
(443555)	17.2	155.21364	31.07499	131.28335	4.69340	0.0847872	2.7146365343336
(443556)	16.7	342.68476	269.75103	83.29970	4.65033	0.2195031	2.9972794343336
(443557)	16.2	8.47248	181.98505	120.37639	14.94413	0.1294317	3.1483442343337
(443558)	16.5	332.56760	159.65159	193.70060	5.61942	0.0073565	2.7603354343337
(443559)	17.4	11.59015	257.14092	107.11939	7.65156	0.1604295	2.2238626343337
(443560)	17.0	310.83779	265.71697	122.83678	7.70313	0.1213145	2.2839960343337
(443561)	16.7	333.95946	224.76241	121.91356	9.94606	0.0236460	2.5464767343338
(443562)	15.6	327.22025	221.07915	107.11376	9.89582	0.0757049	3.1663406343338
(443563)	16.5	11.35051	209.28120	96.78886	7.35185	0.0976299	3.0462644343338
(443564)	16.5	6.32626	114.80955	204.91253	10.04667	0.1638271	3.1614887343339
(443565)	16.2	334.19228	256.45668	90.22527	9.43323	0.0895218	3.1449408343339
(443566)	17.2	237.12542	346.98053	105.36456	3.56851	0.0221485	2.6319353343339
(443567)	16.6	154.78931	50.23866	91.44177	13.70184	0.1580341	2.7020832343339
(443568)	17.4	233.61654	276.87426	168.12139	11.85602	0.0231149	2.5737019343340
(443569)	16.6	351.49891	107.34297	213.92808	5.82249	0.0591909	2.7292685343340
(443570)	16.1	9.50853	141.75117	173.99507	15.52587	0.1112491	3.1570638343340
(443571)	16.0	214.87887	20.01376	92.50975	17.90118	0.0378143	2.8330000343340
(443572)	16.4	73.31086	63.27990	174.57699	17.62845	0.0944572	3.2155346343341
(443573)	16.5	108.96176	101.72571	97.27746	11.18654	0.0733429	3.1819167343341
(443574)	16.6	44.35100	79.48876	199.27488	10.07166	0.0689310	3.0172285343341
(443575)	16.1	0.42109	188.48971	146.43217	9.43714	0.1575279	3.1350709343341
(443576)	16.2	332.18107	189.70872	177.12157	10.15913	0.1922612	3.1743366343342
(443577)	15.9	109.92207	293.73414	281.35558	13.79039	0.0387867	2.6537410343342
(443578)	17.7	263.87744	10.84900	84.33406	8.00704	0.0548824	2.2349697343342
(443579)	16.6	1.04406	103.24325	231.27994	9.68272	0.1190507	2.9597061343343
(443580)	17.1	235.12981	353.59111	101.27668	7.08043	0.0255308	2.7017490343343
(443581)	16.0	262.89043	214.11052	206.08071	10.99498	0.1072314	2.9974556343343
(443582)	16.3	74.44897	123.18326	118.95028	10.97147	0.0359188	3.1283108343343
(443583)	16.3	322.03826	281.16525	92.65892	14.13547	0.1431606	3.0404355343344
(443584)	16.3	324.67967	195.47782	169.15002	9.78005	0.0931268	3.1632456343344
(443585)	15.9	355.12368	222.35814	104.85258	13.52425	0.0705585	3.0611793343344
(443586)	16.6	120.33185	195.77998	12.89336	7.24630	0.1143696	2.5678914343344
(443587)	15.9	16.87431	69.91916	233.86752	13.17985	0.1554771	3.1633944343345
(443588)	16.2	85.56842	158.45417	65.84967	12.33781	0.0918217	3.1450664343345
(443589)	15.8	35.11074	202.47957	89.21073	6.53210	0.1484074	3.0716738343345
(443590)	16.7	311.92839	212.02309	161.10470	8.64817	0.0319056	2.4631892343345
(443591)	16.8	281.67246	278.45255	135.28067	15.33770	0.1037644	2.6282057343346
(443592)	16.8	29.00016	128.35735	172.00654	9.65313	0.1814011	2.7253439343346
(443593)	16.1	310.51301	254.71308	128.41378	16.61820	0.1175548	3.0733088343346
(443594)	15.9	355.77924	214.00320	118.53787	11.50385	0.0915207	3.0162610343346
(443595)	15.7	334.46712	275.88817	82.60463	10.94029	0.1457380	3.0869063343347
(443596)	17.2	295.35066	232.93441	188.43082	10.00148	0.0883395	2.4056712343347
(443597)	16.3	99.87500	124.15487	87.49639	6.32205	0.0671071	3.2219402343347
(443598)	17.0	184.23443	18.56866	116.80123	13.44229	0.0658113	2.8681600343348
(443599)	15.5	204.88754	14.36105	87.89112	14.10818	0.0623504	3.1962202343348
(443600)	15.8	24.83279	68.13292	228.24417	14.62516	0.0757460	3.1885974343348
(443601)	16.5	72.13464	187.86184	58.37849	6.39124	0.1112718	3.0896132343348
(443602)	15.8	17.18227	228.01395	74.09514	9.19505	0.0175043	3.1937683343349
(443603)	16.0	13.85528	114.68328	195.93907	10.74265	0.0988798	3.1514740343349
(443604)	15.5	76.27293	343.38648	259.88771	11.26745	0.0284905	2.9217804343349
(443605)	17.1	267.75746	319.99011	104.96038	6.02143	0.0955446	2.5691907343349
(443606)	16.2	336.68695	255.85519	94.59486	10.61731	0.1136605	3.0443505343350
(443607)	16.8	201.04192	28.78535	98.23801	8.70072	0.0335654	2.6574321343350
(443608)	16.0	77.67417	134.04321	101.30053	12.82732	0.0603722	3.2337948343350
(443609)	16.2	19.70303	145.25876	152.81830	11.17325	0.0291880	3.0980511343350
(443610)	16.1	6.43520	232.13850	85.05067	12.67897	0.0942826	3.0941705343351
(443611)	16.1	4.73244	172.36858	154.36872	20.73169	0.0994296	3.1401301343351
(443612)	17.6	183.36250	23.55046	144.64729	6.29036	0.0424138	2.3372919343351
(443613)	15.9	15.72231	191.25999	121.10161	16.47129	0.0708684	2.9811377343351
(443614)	15.8	50.42651	17.61709	255.44225	9.21095	0.0585574	3.0093848343352
(443615)	16.3	80.70127	92.50066	119.05591	23.43077	0.2586485	3.1429508343352
(443616)	15.7	337.54934	115.69611	240.79490	14.47909	0.1272462	3.0888959343352
(443617)	16.2	350.22555	252.80007	82.99373	10.59258	0.1034378	3.1689675343353
(443618)	16.1	146.29831	318.57768	191.11105	15.40664	0.1482908	3.1817199343353
(443619)	16.2	193.18743	229.11165	263.63467	11.38721	0.0694685	2.5421146343353
(443620)	15.9	335.49506	193.48920	157.57207	15.47366	0.1063250	3.1225546343353
(443621)	15.6	139.66906	327.22153	249.18806	9.18969	0.0465265	3.0820449343354
(443622)	16.4	118.88222	157.64666	90.26070	15.91892	0.0890922	2.7466548343354
(443623)	15.4	72.07921	351.16709	259.93629	9.94508	0.0160544	3.1226967343354
(443624)	16.3	348.78522	184.03397	155.74647	10.68642	0.1224135	3.0972883343354
(443625)	15.5	311.89259	261.11179	103.79174	17.30180	0.0389749	3.0682379343355
(443626)	16.4	155.55312	59.63678	118.59031	22.34014	0.0238774	2.6186007343355
(443627)	16.0	323.97326	221.93976	142.31865	10.88568	0.1383344	3.1438063343355
(443628)	16.2	17.87059	168.43935	196.76853	12.44131	0.1026133	2.9159584343356
(443629)	16.5	97.58175	28.67530	182.43500	5.04623	0.1170760	3.2034769343356
(443630)	16.2	88.55963	297.44970	331.10167	11.95486	0.0735203	2.9869541343356
(443631)	16.0	298.40421	310.37499	128.83769	6.57588	0.1104242	3.1703437343356
(443632)	17.1	240.70013	336.66005	143.58821	7.10944	0.0644853	2.3070481343357
(443633)	16.2	208.17585	253.95527	221.19828	9.61572	0.0472952	3.0552953343357
(443634)	16.1	118.82778	181.05111	85.76104	10.34662	0.0144499	2.9702157343357
(443635)	16.6	77.81113	206.77508	84.67153	12.36511	0.0582161	2.6990461343357
(443636)	16.2	26.56357	234.68657	120.37593	10.27009	0.0388660	2.6977859343358
(443637)	16.0	242.71067	322.94834	121.27116	15.41634	0.0956793	2.7504380343358
(443638)	17.0	296.47124	328.24035	128.66430	6.71664	0.1047725	2.4635255343358
(443639)	16.0	7.04990	150.45095	178.01411	12.27427	0.1026532	3.0559245343358
(443640)	15.7	24.88067	156.43440	135.64350	15.95811	0.0132945	3.1673020343359
(443641)	15.8	128.95703	121.56868	115.29506	11.65039	0.0275992	3.1217198343359
(443642)	15.2	331.96536	329.07659	66.88878	10.49715	0.0744676	3.1741248343359
(443643)	15.6	266.46013	346.04503	137.41807	13.10945	0.0683161	3.0380770343360
(443644)	16.0	5.81161	190.36436	141.38966	14.50643	0.1329239	3.1293813343360
(443645)	15.7	196.80738	336.50810	146.01933	16.45535	0.0309016	3.1715717343360
(443646)	16.1	52.90583	203.49661	113.50489	10.01739	0.0952167	3.0551088343360
(443647)	16.0	104.46934	157.18563	98.59704	11.63581	0.1852334	3.1489363343361
(443648)	16.1	283.34619	343.33443	106.96011	11.55001	0.0589517	3.1539914343361
(443649)	15.6	353.20540	283.91559	110.31864	10.28704	0.1099337	2.9946933343361
(443650)	15.9	322.82220	263.33875	168.20863	10.16946	0.0794661	3.1776078343362
(443651)	16.9	352.30458	155.59680	89.45253	7.19563	0.0783714	2.3582570343362
(443652)	17.4	16.97614	164.99555	38.68922	3.59041	0.1780864	2.3438842343362
(443653)	17.1	36.35046	36.94923	154.76467	5.83852	0.0988179	2.4152472343363

(443654)	17.1	15.88309	38.01787	176.98110	9.43250	0.2232726	2.6350950343363
(443655)	16.5	282.30559	228.32976	85.95772	5.70756	0.0567600	2.7734725343363
(443656)	14.8	294.69789	243.78718	50.02839	18.81844	0.0306313	3.5237165343363
(443657)	15.5	261.88075	262.81415	69.67093	9.81632	0.0518848	3.0617887343364
(443658)	15.2	348.45230	30.97026	172.08313	22.64642	0.0351087	3.0458085343364
(443659)	15.8	239.27036	247.14624	99.22170	10.89428	0.0951322	3.0730857343365
(443660)	15.4	76.50527	69.54190	72.30780	16.44819	0.0768376	3.1480526343365
(443661)	16.7	326.32707	154.78404	132.75223	11.26244	0.1625010	2.6117107343365
(443662)	16.2	275.32372	173.18793	164.60927	15.05309	0.1037905	2.6689446343365
(443663)	16.7	337.08151	136.37310	109.00361	7.92126	0.0709029	2.4131454343366
(443664)	16.0	173.14500	304.92945	93.93544	8.14659	0.0258510	2.7800508343366
(443665)	17.1	348.81679	128.40596	140.97256	5.96731	0.1680722	2.4297741343367
(443666)	15.8	350.83251	154.47277	113.42784	9.41720	0.1368245	3.1834581343367
(443667)	17.3	193.83556	293.45752	128.49612	6.71377	0.0615127	2.2407386343367
(443668)	17.7	312.22721	190.99695	96.65792	7.05246	0.2936184	2.2980284343368
(443669)	15.9	350.77258	74.22418	185.02292	16.65926	0.1667763	3.0841338343368
(443670)	16.7	341.90066	124.15812	166.56946	14.86036	0.1312251	2.6008507343368
(443671)	16.3	306.09503	135.72321	158.79057	6.45433	0.0604873	2.8765377343369
(443672)	17.1	306.76686	48.67951	258.44510	6.40385	0.1608555	2.3115584343369
(443673)	16.3	313.06553	51.75706	237.00164	11.03926	0.2490200	2.7154297343369
(443674)	19.0	340.70093	249.90676	39.37774	5.69818	0.3681789	2.1638630343370
(443675)	17.5	333.06938	146.60046	140.23813	5.32063	0.2200037	2.3261916343370
(443676)	16.0	29.45820	288.17837	249.91561	8.49845	0.0470580	3.0836354343370
(443677)	17.2	314.65807	270.94700	39.70555	2.03846	0.1588715	2.6504378343370
(443678)	16.1	307.42025	152.34596	159.72520	12.85904	0.0889517	3.1539006343371
(443679)	17.1	314.41590	183.50541	129.33822	12.91287	0.1486280	2.7001196343371
(443680)	16.9	354.10945	113.36800	147.25069	10.08176	0.0279181	2.6451722343371
(443681)	17.2	7.99493	107.05533	137.84111	8.63235	0.1579394	2.7335596343371
(443682)	16.1	258.58306	204.51511	165.20096	11.29853	0.1200494	2.9616101343372
(443683)	16.9	46.13552	51.44078	150.35470	12.25625	0.0818946	2.6176358343372
(443684)	15.7	350.62488	138.31410	129.13491	16.96444	0.1663117	3.0976929343372
(443685)	17.7	3.05958	173.19617	76.63689	3.32950	0.1333626	2.3800983343373
(443686)	16.7	344.98134	80.96627	195.74003	12.73277	0.1482390	2.5669470343373
(443687)	17.7	353.09086	210.56046	83.10727	4.08927	0.1691055	2.3765947343373
(443688)	17.4	304.41663	191.00102	130.06887	5.78749	0.1140897	2.4702601343373
(443689)	17.6	301.44698	57.39132	257.88178	5.53774	0.0469199	2.4016535343374
(443690)	17.1	142.39488	23.26518	78.03265	6.10928	0.0926271	2.6421590343374
(443691)	18.0	43.12747	111.02338	92.77968	3.56397	0.0999095	2.1262657343374
(443692)	15.8	114.00463	55.91320	72.57437	19.79000	0.0794146	3.0343724343374
(443693)	16.5	33.72263	54.62298	141.41833	5.93591	0.1179028	3.0082387343375
(443694)	17.5	309.87380	224.36110	100.11498	6.45385	0.1934616	2.2630760343375
(443695)	16.1	57.24064	53.65573	132.07209	7.80091	0.0924593	3.1980828343375
(443696)	16.6	302.59498	214.57757	101.50192	7.71590	0.0298407	2.7516424343376
(443697)	16.8	39.89368	72.32725	136.70529	5.76863	0.0968578	2.7008117343376
(443698)	16.4	251.91946	270.74289	99.74250	9.80788	0.0618336	2.5548311343376
(443699)	16.9	328.05992	82.92565	223.16823	12.59786	0.1916657	2.6172699343376
(443700)	17.2	164.88461	326.87224	123.88169	6.40281	0.0683673	2.4096135343377
(443701)	17.1	323.99795	159.61512	148.48113	5.45492	0.1605306	2.6136290343377
(443702)	17.1	316.81091	235.67054	93.34053	14.24779	0.2764533	2.6963186343377
(443703)	17.3	6.28233	109.29537	143.21657	6.84184	0.0712030	2.3231176343377
(443704)	16.4	336.45788	152.46180	136.52980	8.07736	0.1330335	3.1496249343378
(443705)	16.7	22.78274	21.03916	208.73906	12.50958	0.1338612	2.7178584343378
(443706)	16.7	25.78911	113.13626	96.31273	15.41188	0.2954156	3.1698300343378
(443707)	16.5	215.03742	254.98551	147.36545	8.14158	0.0314363	2.7819751343379
(443708)	15.3	313.92008	197.33434	112.59469	17.08226	0.2569687	3.1575041343379
(443709)	18.4	2.94608	244.18001	34.75246	4.23797	0.1779201	2.1906442343379
(443710)	16.0	270.55008	235.67833	124.25749	15.20871	0.1254927	2.5820056343380
(443711)	17.7	344.01843	354.26113	272.77046	3.41716	0.1049915	2.3515687343380
(443712)	17.7	354.67182	238.00853	19.19562	0.65317	0.1064361	2.1210152343380
(443713)	16.6	39.86857	275.89609	242.69745	21.24496	0.4462098	3.1300698343381
(443714)	17.4	11.77638	11.72954	227.15230	5.56905	0.1331024	2.2468331343381
(443715)	17.3	3.93907	75.10946	184.89477	11.54739	0.1456829	2.4106203343381
(443716)	17.7	357.29222	226.41083	60.51766	6.29029	0.2182199	2.4133403343381
(443717)	17.7	171.71278	294.80966	152.62995	23.29081	0.0588148	1.9058995343382
(443718)	17.6	7.79137	92.46205	159.32215	6.32973	0.0986433	2.1396392343382
(443719)	15.7	151.48340	306.45127	137.69010	16.44513	0.0800644	3.0383700343382
(443720)	16.3	340.68530	131.40007	139.49669	16.62299	0.1586312	3.1279345343383
(443721)	17.5	359.36397	126.35659	128.82860	12.41788	0.1581843	2.3769440343383
(443722)	17.8	328.35267	215.94569	81.01602	2.51448	0.1749090	2.4072037343383
(443723)	15.8	2.74174	357.01051	255.67257	14.30171	0.2295493	2.5440499343383
(443724)	17.4	318.96387	170.96439	148.84095	4.25489	0.1835777	2.5936204343384
(443725)	17.0	348.40126	154.36780	129.86463	12.08976	0.2395364	2.3084072343384
(443726)	15.8	15.17871	143.35324	98.78894	13.25006	0.0860847	3.1296356343384
(443727)	15.5	114.39505	45.14165	98.38458	13.75582	0.0161703	3.2116077343385
(443728)	17.4	337.21534	145.08976	150.65757	3.86338	0.1797045	2.7306885343385
(443729)	16.5	174.10094	272.09266	215.96163	14.48571	0.0563029	2.5364866343385
(443730)	16.7	273.74561	179.70165	216.47284	11.52576	0.0790973	2.5118933343385
(443731)	16.7	354.56730	169.49405	100.47978	10.20264	0.2719433	2.7913356343386
(443732)	15.6	40.36192	333.27390	231.77582	16.77352	0.1674396	3.1035462343386
(443733)	16.7	321.78286	188.03561	131.55386	9.81413	0.2284719	2.4775381343386
(443734)	17.9	7.03002	122.30315	130.47113	0.78954	0.1630119	2.3136832343387
(443735)	15.7	334.10028	232.66929	76.96577	29.45222	0.3184318	3.1542633343387
(443736)	15.6	65.61882	291.97641	241.25450	10.56217	0.1478578	3.0891522343387
(443737)	16.1	276.78039	298.93071	100.87439	14.62469	0.2224130	2.7236578343388
(443738)	16.4	311.15885	225.64643	129.67982	4.30922	0.1497096	3.0603705343388
(443739)	17.4	271.59993	114.81593	279.23020	5.72158	0.1116659	2.3578461343388
(443740)	16.7	308.20083	48.01976	299.49977	5.59664	0.0421754	2.7583445343388
(443741)	16.6	23.21302	182.58183	74.80592	5.58806	0.2102084	2.9850465343389
(443742)	15.4	28.50524	155.42131	113.04218	16.90116	0.0486869	3.1908048343389
(443743)	15.6	103.30291	79.88134	105.12001	12.68476	0.0569165	2.8913432343389
(443744)	15.7	330.22410	237.73536	98.52690	11.73547	0.1432779	3.0892559343390
(443745)	16.4	176.73512	16.79073	104.02660	12.49129	0.0555125	2.5407254343390
(443746)	16.5	356.25911	189.38443	111.04681	14.83866	0.1151514	2.9991337343390
(443747)	15.9	319.06136	198.14678	115.54123	13.21364	0.1194648	2.5553662343391
(443748)	15.8	321.71434	213.80455	95.57343	19.29084	0.1415975	3.1884679343391
(443749)	17.4	347.60578	1.55266	310.43359	9.95290	0.2695306	2.2955514343391
(443750)	16.0	309.70714	159.89015	156.80555	5.94797	0.2421126	3.1467365343391
(443751)	16.1	349.56539	64.06400	243.34428	8.44530	0.0578700	3.1454512343392
(443752)	16.9	289.45675	109.25329	260.73560	5.13097	0.0397729	2.6808819343392
(443753)	16.4	242.22185	152.95738	268.87350	8.31460	0.0609910	3.1722468343392
(443754)	15.5	342.03877	47.07607	273.13770	16.03504	0.0789874	3.1230659343393
(443755)	17.0	299.83971	116.93414	252.04214	8.28498	0.0881550	2.6545308343393
(443756)	15.4	325.56516	55.75123	286.97586	22.95060	0.0990388	3.1881415343393
(443757)	15.8	347.65331	31.85819	282.55220	13.77134	0.0420534	3.0206934343393

(443758)	16.7	297.99526	353.06839	4.48130	6.04905	0.0951198	2.5810783343394
(443759)	16.7	324.78930	47.41776	245.27258	3.17442	0.1861064	3.1070114343394
(443760)	17.5	322.12494	249.05052	50.91942	7.02170	0.1712377	2.3274451343394
(443761)	16.6	35.27047	217.52087	344.06130	3.52306	0.0786945	2.9828491343394
(443762)	16.8	95.59332	171.23019	332.22690	3.43531	0.0419235	2.7584826343395
(443763)	16.7	32.46221	51.93407	154.43567	6.39491	0.0629577	2.4614116343395
(443764)	16.7	25.68576	48.24939	185.36054	13.02597	0.1212761	2.5550476343395
(443765)	15.7	357.96376	358.43276	288.72884	22.59075	0.1001210	3.2092353343396
(443766)	16.8	309.57055	203.67944	123.87508	4.82454	0.1722235	2.6082963343396
(443767)	16.4	222.24647	220.80076	176.45113	15.07157	0.0986036	2.6674649343396
(443768)	15.4	69.75098	292.92700	273.76259	12.82737	0.1229843	3.0661808343397
(443769)	16.7	80.34667	261.87721	292.43538	10.42359	0.1338448	2.6142295343397
(443770)	17.8	19.85499	163.53050	96.16676	2.39786	0.1704376	2.2775951343397
(443771)	15.8	22.62583	150.90860	114.35424	18.70537	0.0949408	3.1402600343397
(443772)	17.0	312.64154	243.64217	117.02507	11.15274	0.2007912	2.5865333343398
(443773)	15.2	358.89277	191.09513	108.18642	21.02794	0.1371546	3.1296681343398
(443774)	16.4	352.54188	20.03799	289.36853	9.12659	0.1655868	3.0688573343398
(443775)	15.9	340.78779	81.49207	236.98827	7.89944	0.1203188	3.0030134343398
(443776)	16.3	349.53400	203.76208	74.00629	7.20371	0.1922740	3.0018291343399
(443777)	17.1	29.20502	147.79873	105.53138	11.75218	0.0848048	2.5323600343399
(443778)	15.0	242.69345	295.82499	126.55094	19.32444	0.0453188	3.2123026343399
(443779)	16.7	357.38558	353.33196	298.63842	3.83851	0.1328620	3.0809591343400
(443780)	17.8	316.03256	235.24033	107.82324	7.76798	0.1442188	2.3505864343400
(443781)	16.2	348.09804	172.22589	133.17992	21.99132	0.0281776	3.0891658343400
(443782)	16.8	17.66026	120.92348	149.41391	4.23963	0.0627398	2.8627494343400
(443783)	15.0	238.24681	137.19630	283.39289	15.73002	0.0575339	3.2076019343400
(443784)	16.2	313.66281	86.88238	267.59725	8.79120	0.1651953	3.0467980343401
(443785)	14.9	145.98233	229.25254	282.50999	23.88132	0.0312803	3.2348184343401
(443786)	16.1	302.25689	204.13332	157.32415	10.26889	0.0708445	3.2060425343401
(443787)	15.0	74.64189	347.22687	272.02318	13.23118	0.0505732	2.9801432343402
(443788)	16.5	29.29577	137.30478	72.80360	14.55757	0.0835734	2.6805735343402
(443789)	18.0	347.59941	145.71683	133.51443	6.06783	0.2142538	2.4081853343402
(443790)	15.7	319.19234	198.88156	105.42241	10.27177	0.0989193	3.0101994343403
(443791)	16.6	315.95250	142.50505	165.03379	8.88045	0.0901660	2.9885132343403
(443792)	17.8	335.68791	152.32176	148.84503	4.64195	0.2185517	2.4152884343403
(443793)	15.5	334.01684	204.61170	99.06705	17.79789	0.2410690	3.1292361343403
(443794)	16.0	163.03900	220.68825	235.91328	21.13680	0.0519122	2.6627596343404
(443795)	16.9	275.03842	147.18350	274.11451	6.89804	0.3224550	2.8528366343404

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2000 EB_{24}	= 2005 SB_{204}	*MPO* 84544
2009 DF_{59}	= 2007 WG_{37}	*MPO* 279132
2010 BG_{66}	= 2014 TG_{12}	*MPO* 308444
2010 OC_{95}	= 2014 GR_{11}	*MPO* 289601
2012 BN_{84}	= 2010 NB_{49}	*MPO* 262367

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement.*

1995 SQ_{12} = 2014 HG_{101} = 2015 OR_{66}
1995 UN_{20} = 2015 PP_{120}
1995 WE_{12} = 2015 OX_{49}
1996 TS_{36} = 2015 MY_{127}
2000 OP_{60} = 2015 PZ_{55}
2000 QP_{110} = 2015 OL_{73}
2000 SO_{174} = 2015 OF_{40}
2001 FW_{29} = 2015 OW_{70}
2001 FO_{202} = 2015 PV_{87}
2001 FF_{217} = 2015 PC_{242}
2001 OV_{13} = 2015 NH_{13}
2001 OQ_{78} = 2015 OP_{52}
2001 OD_{91} = 2015 NO_{24}
2001 PV_{15} = 2015 PH_{281}
2001 QJ_{96} = 2015 PK_{229}
2001 RJ_{36} = 2015 OF_{78}
2001 RQ_{108} = 2015 PD_{306}
2001 SN_{12} = 2015 QN_{7}
2001 SM_{27} = 2015 PG_{310}
2001 SY_{195} = 2004 FE_{73} = 2015 PU_{310}
2001 SF_{229} = 2015 OP_{77}
2001 UE_{214} = 2015 PO_{82}
2002 GJ_{191} = 2015 PO_{150}
2002 JE_{125} = 2015 PT_{292}
2002 OU_{34} = 2015 OS_{65}
2002 PL_{7} = 2015 PD_{310}
2002 PH_{78} = 2015 OY_{34}
2002 PE_{112} = 2015 PX_{229}
2002 PU_{141} = 2015 NK_{25}
2002 PE_{142} = 2015 OC_{66}
2002 PH_{163} = 2015 OD
2002 PM_{180} = 2015 PX_{77}
2002 PV_{191} = 2015 PU_{23}
2002 QW_{38} = 2015 PP_{292}
2002 QJ_{94} = 2015 MU_{126}
2002 QN_{108} = 2015 MC_{118}
2002 QM_{110} = 2015 OY_{35}
2002 QU_{124} = 2015 OJ_{7}
2002 QZ_{132} = 2015 PW_{54}
2002 QA_{136} = 2015 PS_{276}
2002 QH_{146} = 2015 NO_{19}
2002 QK_{149} = 2015 PB_{309}
2002 RX_{213} = 2015 OW_{74}
2002 RL_{234} = 2015 OT_{29}
2002 RD_{244} = 2015 OO_{39}
2002 RR_{264} = 2015 PB_{2}
2002 RN_{270} = 2015 QN_{1}
2002 RK_{294} = 2015 OD_{38}
2002 SH_{14} = 2015 PE_{93}
2002 SS_{35} = 2015 PH_{310}
2002 SU_{47} = 2015 OR_{1}
2002 SS_{73} = 2015 PY_{7}
2002 TV_{104} = 2015 PA_{248}

2002 TG_{371} = 2015 PU_{79}
2002 UG_{67} = 2015 PO_{132}
2002 VC_{101} = 2015 PQ_{290}
2003 GO_{56} = 2015 OO_{62}
2003 SF_{187} = 2015 NP_{10}
2003 SW_{418} = 2015 PA_{55}
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2003 SR_{428} = 2011 OG_{58}
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2003 UL_{254} = 2015 BY_{13}
2003 VZ_{4} = 2015 PW_{209}
2003 WL_{36} = 2015 OF_{56}
2003 WF_{147} = 2015 GD_{1}
2004 FB_{48} = 2015 PE_{77}
2004 MX_{6} = 2015 NJ_{1}
2004 PE_{26} = 2015 NV_{18}
2004 PX_{82} = 2015 OJ_{66}
2004 PJ_{87} = 2015 NN_{23}
2004 QM_{6} = 2015 OC_{28}
2004 QW_{13} = 2015 PD_{62}
2004 RR_{6} = 2015 PZ_{306}
2004 RB_{32} = 2015 OM_{77}
2004 RN_{61} = 2015 NA_{25}
2004 RN_{182} = 2015 PY_{293}
2004 RH_{212} = 2015 MX_{124}
2004 SO_{9} = 2015 PC_{294}
2004 SU_{39} = 2015 PX_{287}
2004 SB_{51} = 2015 PO_{229}
2004 SO_{51} = 2015 PZ_{51}
2004 TR_{107} = 2015 PZ_{267}
2004 TL_{200} = 2015 MD_{122}
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2004 TU_{211} = 2015 PV_{63}
2004 TZ_{234} = 2015 PN_{80}
2004 TM_{318} = 2015 PZ_{2}
2004 TO_{337} = 2015 PU_{40}
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2005 CJ_{45} = 2015 PB_{149}
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2010 EJ_{101} = 2015 OA_{76}
2010 JH_{43} = 2015 PW_{222}
2010 JY_{64} = 2015 OR_{53}
2010 JG_{120} = 2015 OF_{49}
2010 KG = 2004 YG
2010 KE_{13} = 2015 OX_{57}
2010 KZ_{85} = 2005 GU_{164}
2010 LO_{55} = 2015 MC_{124}
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2010 VL_{27} = 2010 VM_{36}
2010 VU_{52} = 2015 PZ_{31}
2010 VR_{189} = 2015 PX_{280}
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2015 OR_{24} = 2011 GY_{13}
2015 OU_{24} = 2007 BT_{65}
2015 OX_{24} = 2010 MD_{82} = 2011 QR_{13}
2015 OY_{24} = 2007 LM_{27}
2015 OB_{25} = 2012 QN_{28}
2015 OD_{25} = 2014 DS_{57}
2015 OK_{25} = 2000 QN_{225} = 2004 VS_{17} = 2010 FS_{10}
2015 OM_{25} = 2010 NB_{16}
2015 ON_{25} = 2010 PG_{5}
2015 OQ_{25} = 2014 FV_{67}
2015 OX_{25} = 2010 HB_{109}
2015 OC_{26} = 2012 QR_{2}
2015 OK_{26} = 2006 AY_{11}
2015 OQ_{26} = 2009 MC_{4} = 2012 KW_{50}
2015 OV_{26} = 2010 JG_{172}
2015 OX_{26} = 2008 YB_{135}
2015 OD_{27} = 2000 VA_{65}
2015 OX_{27} = 2010 MW_{109}
2015 OE_{28} = 2006 EG_{11}

2015 OP_{28} = 2005 OR_{20}
2015 OX_{28} = 2004 VD_{105}
2015 OT_{30} = 2014 KN_{58}
2015 OZ_{30} = 2006 WU_{81} = 2006 YK_{55}
2015 OA_{31} = 2010 JK_{100}
2015 OD_{31} = 2011 HY_{57}
2015 OL_{31} = 2004 RX_{25}
2015 OO_{31} = 2001 NX_{13} = 2011 UD_{387}
2015 OZ_{31} = 2001 QJ_{40}
2015 ON_{32} = 2008 YJ_{39} = 2013 BV_{59}
2015 OO_{32} = 2004 DK_{2}
2015 OS_{32} = 2014 KA_{74}
2015 OV_{32} = 2014 HP_{159}
2015 OW_{32} = 2008 WK_{119}
2015 OZ_{32} = 2014 KP_{20}
2015 OC_{33} = 2014 FJ_{67}
2015 ON_{33} = 2008 ED_{93}
2015 OS_{33} = 2010 JA_{70}
2015 OT_{33} = 2010 JA_{69}
2015 OL_{34} = 2010 TU_{25}
2015 OS_{34} = 2005 OS_{30} = 2010 KH_{43} = 2011 SB_{228}
2015 ON_{35} = 2004 OM_{4}
2015 OV_{35} = 2013 BJ_{14}
2015 OX_{35} = 1999 BY_{30}
2015 OC_{36} = 2001 PZ_{60}
2015 OG_{36} = 2008 UK_{363}
2015 OZ_{36} = 2003 SS_{370}
2015 OH_{37} = 2010 OJ_{21}
2015 OL_{37} = 2012 TJ_{229}
2015 OM_{37} = 2010 OP_{24}
2015 OH_{38} = 2010 OC_{95}
2015 OK_{38} = 2005 AK_{75}
2015 OM_{38} = 2003 FO_{29}
2015 ON_{38} = 2008 RW_{60}
2015 OX_{38} = 2011 SN_{63}
2015 OY_{38} = 2012 XV_{98}
2015 ON_{39} = 2008 TS_{178}
2015 OY_{39} = 2014 HT_{186}
2015 OA_{40} = 2009 RJ_{30}
2015 OH_{40} = 2007 WZ_{27}
2015 ON_{40} = 2004 RV_{236} = 2010 TB_{59}
2015 OP_{40} = 2004 RR_{121}
2015 OQ_{40} = 2010 OQ_{16}
2015 OF_{41} = 2001 PL_{50}
2015 OO_{43} = 2010 HW_{25}
2015 OW_{43} = 2005 UK_{403}
2015 OH_{44} = 2010 MY_{75}
2015 OK_{44} = 2014 DX_{140}
2015 OT_{44} = 2014 HC_{16}
2015 OX_{44} = 2011 VR_{19}
2015 OE_{45} = 2003 YO_{163}
2015 OF_{45} = 2014 HF_{17}
2015 OT_{45} = 2006 GK_{32} = 2013 AK_{65}
2015 OA_{46} = 2011 SE_{266}
2015 OC_{46} = 2011 HK_{72}
2015 OD_{46} = 2007 YX_{25}
2015 OS_{46} = 2010 CS_{31}
2015 OD_{47} = 2011 CW_{4}
2015 OE_{47} = 2006 KY_{18}
2015 OK_{47} = 2004 XO_{173} = 2012 WF_{34} = 2013 AM_{183}
2015 OB_{50} = 2004 OU_{14} = 2005 WY_{187} = 2010 NQ_{63} = 2014 JT_{50}
2015 OR_{50} = 2007 YO_{48}
2015 OQ_{51} = 2010 JJ_{6}
2015 OJ_{52} = 2010 OL_{44}
2015 OV_{52} = 2014 BL_{56}
2015 OY_{52} = 2013 AU_{49} = 2014 HH_{16}
2015 OH_{53} = 2011 YR_{41}
2015 OU_{54} = 2000 TD_{22}
2015 OX_{55} = 2010 LK_{9} = 2014 DF_{64}
2015 OM_{63} = 2007 VF_{293}
2015 OW_{63} = 2010 PQ_{71}
2015 OP_{64} = 2006 OZ_{17}
2015 OQ_{65} = 2012 XU_{61} = 2014 EV_{16}
2015 OT_{65} = 2010 ED_{37} = 2014 GW
2015 OU_{65} = 2012 XW_{100}
2015 OV_{65} = 2006 PB_{34} = 2007 WE_{3}
2015 OZ_{65} = 2010 PZ_{2}
2015 OB_{66} = 2012 UN_{44}
2015 OU_{66} = 2005 KS_{3} = 2007 VA_{144} = 2011 SW_{95}
2015 OB_{67} = 2005 NR_{7} = 2012 QQ_{38}
2015 OC_{67} = 2000 RC_{57} = 2012 XZ_{157}
2015 OF_{67} = 2001 DR_{14} = 2009 BM_{11}
2015 OP_{67} = 2010 RE_{75}
2015 OT_{67} = 2011 MR_{10}
2015 OJ_{68} = 2003 QK_{2}
2015 OK_{68} = 1995 WM_{29} = 2005 SS_{70}
2015 ON_{68} = 2010 EM_{110} = 2011 QQ_{90}
2015 OO_{68} = 2004 RP_{295} = 2013 YA_{91}
2015 OP_{68} = 2007 VQ_{73} = 2011 SA_{188} = 2014 GD_{19}
2015 OH_{69} = 2010 KR_{87}
2015 OQ_{69} = 2010 AC_{53}
2015 OU_{69} = 2004 PW_{106}
2015 OW_{69} = 2009 BZ_{165}
2015 OC_{70} = 2010 ME_{23}
2015 OJ_{70} = 2008 TC_{13}
2015 OK_{70} = 2013 AV_{127}
2015 ON_{70} = 2011 UX_{375}
2015 OP_{70} = 2011 QJ_{82}
2015 OY_{71} = 2006 BC_{25}
2015 OB_{73} = 2010 RO_{114}
2015 OD_{73} = 2013 CO_{215}
2015 OH_{73} = 2008 GN_{85}
2015 OQ_{73} = 2009 JV_{10} = 2014 HV_{169}
2015 OV_{73} = 2006 KW_{120}

2015 OW_{73} = 2006 QD_{165} = 2011 UW_{184} = 2014 HK_{34}
2015 OY_{73} = 2012 XA_{136}
2015 OF_{74} = 2010 MS_{27}
2015 OH_{74} = 2006 QQ_{133}
2015 OJ_{74} = 2005 XO_{106} = 2011 OD_{55}
2015 OK_{74} = 2011 UR_{314}
2015 OL_{74} = 2012 XD_{27}
2015 OP_{74} = 1999 TZ_{78} = 2009 HX_{81} = 2014 HQ_{134}
2015 OQ_{74} = 2008 CM_{139}
2015 OT_{74} = 2004 RM_{249} = 2006 DK_{125}
2015 OA_{75} = 2011 UM_{291}
2015 OJ_{75} = 2014 DL_{22}
2015 ON_{75} = 2004 RL_{215}
2015 OQ_{75} = 2005 SU_{209}
2015 OZ_{75} = 2002 QA_{41}
2015 OD_{76} = 1994 RP_{20} = 2007 VW_{241} = 2010 CA_{252}
2015 OE_{76} = 2004 WK_{9} = 2006 BZ_{181} = 2011 PR_{15}
2015 OJ_{76} = 2011 OV_{56} = 2014 GZ_{20}
2015 ON_{76} = 2002 TS_{117} = 2011 VT_{19}
2015 OR_{76} = 2011 SZ_{86}
2015 OH_{77} = 2010 VT_{212}
2015 OL_{77} = 2004 RM_{34}
2015 OH_{78} = 2000 SB_{330} = 2006 CF_{79} = 2008 UB_{315}
2015 OP_{78} = 2006 BV_{253}
2015 PA = 2011 VL_{1}
2015 PH = 2015 NS_{2} = 2006 UU_{327} = 2014 DE_{22}
2015 PN = 2002 QD_{24}
2015 PA_{1} = 2011 HY_{54}
2015 PS_{1} = 2010 MA_{47} = 2013 CP_{218}
2015 PU_{1} = 2011 WH_{119}
2015 PZ_{1} = 2010 HZ_{51} = 2014 HY_{147}
2015 PO_{2} = 2010 GE_{7}
2015 PQ_{2} = 2014 DC_{44}
2015 PT_{2} = 2008 YT_{47}
2015 PW_{2} = 2010 CV_{215} = 2010 PB_{20} = 2011 UA_{32}
2015 PY_{2} = 2005 BO_{39} = 2009 DB_{21}
2015 PC_{3} = 2009 HM_{9}
2015 PG_{3} = 2004 PJ_{42}
2015 PH_{3} = 2010 PH_{1} = 2011 WH_{117}
2015 PJ_{3} = 2010 PL_{71} = 2012 BG_{67}
2015 PK_{3} = 2007 BM_{25} = 2010 MS_{92}
2015 PL_{3} = 2005 GQ_{192} = 2010 NW_{18}
2015 PM_{3} = 2012 XA_{142}
2015 PO_{3} = 2010 OK_{110}
2015 PP_{3} = 2007 JB_{4}
2015 PQ_{3} = 2010 PV_{50}
2015 PS_{3} = 2010 MU_{105}
2015 PY_{3} = 2004 KC_{3} = 2012 UX_{125}
2015 PB_{4} = 2014 DL_{45}
2015 PC_{4} = 2007 RG_{233}
2015 PZ_{4} = 2010 RV_{83}
2015 PF_{5} = 2010 NH_{34}
2015 PO_{7} = 2010 MO_{44}
2015 PP_{8} = 2005 QG_{43} = 2011 FA_{87}
2015 PR_{8} = 2004 PV_{63}
2015 PY_{8} = 2014 GO_{19}
2015 PE_{9} = 2008 JV_{12}
2015 PP_{9} = 2010 LO_{41}
2015 PY_{11} = 2008 FJ_{38} = 2011 ET_{32}
2015 PD_{12} = 2002 TE_{145}
2015 PU_{12} = 2008 OC_{3}
2015 PX_{12} = 2014 FD_{17}
2015 PZ_{12} = 2010 MF_{110}
2015 PG_{13} = 2011 YB_{76}
2015 PT_{25} = 2007 WV_{35}
2015 PL_{29} = 2010 RQ_{119} = 2014 HF_{140}
2015 PP_{29} = 2011 ON_{55}
2015 PX_{29} = 2015 MY_{102} = 2000 TZ_{54}
2015 PB_{30} = 2010 EP_{137} = 2014 KM_{37}
2015 PS_{30} = 2010 OW_{107} = 2014 MX_{22}
2015 PA_{31} = 2007 LR_{36}
2015 PQ_{31} = 2011 MB_{9}
2015 PR_{31} = 2015 PX_{31} = 2004 RO_{44}
2015 PW_{31} = 2013 AJ_{81}
2015 PB_{32} = 2014 KU_{88}
2015 PL_{32} = 2011 SY_{177}
2015 PX_{32} = 2011 VD_{4}
2015 PJ_{33} = 1996 RF_{15} = 2004 VM_{46}
2015 PS_{33} = 2011 UQ_{304}
2015 PY_{33} = 2011 SX_{15}
2015 PG_{34} = 2007 RA_{181}
2015 PH_{34} = 2007 RM_{258} = 2014 DC_{114}
2015 PJ_{34} = 2006 PB_{19}
2015 PK_{34} = 2010 MU_{40}
2015 PM_{34} = 2006 KO_{2}
2015 PN_{34} = 2010 EN_{154}
2015 PO_{34} = 2011 OC_{35}
2015 PT_{35} = 2008 UT_{49}
2015 PB_{36} = 2010 MG_{6} = 2014 JP_{26}
2015 PF_{36} = 2012 XU_{37}
2015 PA_{37} = 2010 VE_{51}
2015 PC_{37} = 1996 BC_{14} = 2009 BV_{63} = 2014 HX_{165}
2015 PN_{37} = 2009 BZ_{154}
2015 PO_{37} = 2009 DP_{103}
2015 PV_{37} = 2009 BW_{39} = 2011 SP_{270}
2015 PA_{38} = 2010 OX_{24}
2015 PD_{38} = 2009 BU_{40}
2015 PN_{38} = 2011 SX_{184}
2015 PS_{38} = 2014 HX_{170}
2015 PH_{39} = 2008 UP_{251}
2015 PC_{40} = 2007 HF_{54}
2015 PD_{40} = 2005 UL_{462}
2015 PN_{40} = 2011 SV_{120}
2015 PY_{40} = 2010 MT_{89}

2015 PB_{41} = 2007 FT_{10}
2015 PO_{41} = 2003 UJ_{396} = 2010 NE_{57}
2015 PP_{41} = 2002 TE_{335} = 2011 SA_{57}
2015 PZ_{41} = 2010 LR_{63}
2015 PL_{42} = 2014 HH_{149}
2015 PW_{42} = 2013 GD_{14}
2015 PD_{43} = 2010 HP_{92}
2015 PG_{43} = 2010 OK_{31}
2015 PH_{44} = 2010 OJ_{38}
2015 PP_{44} = 2007 WB_{19}
2015 PE_{45} = 2010 OP_{67}
2015 PN_{45} = 2013 CF_{47}
2015 PZ_{45} = 2005 LX_{38}
2015 PO_{46} = 2007 EW_{121}
2015 PA_{47} = 2005 GP_{153} = 2009 BR_{130}
2015 PH_{47} = 2011 GK_{41} = 2014 BS_{28}
2015 PM_{47} = 2012 YN_{9} = 2014 HY_{156}
2015 PW_{47} = 2008 DY_{44}
2015 PX_{47} = 2008 FX_{92}
2015 PB_{48} = 2003 TC_{18} = 2013 BS_{50}
2015 PH_{48} = 2011 UQ_{392}
2015 PR_{48} = 2010 OO_{26}
2015 PA_{49} = 2010 CE_{8} = 2010 PW_{44}
2015 PB_{49} = 2009 HL_{86}
2015 PC_{49} = 2010 MH_{77} = 2014 FY_{5}
2015 PE_{49} = 2015 MB_{49}
2015 PR_{49} = 2010 MO_{11}
2015 PM_{50} = 2011 SM_{204}
2015 PB_{53} = 2005 NR_{63}
2015 PL_{53} = 2010 ND_{79}
2015 PP_{54} = 2005 MV_{26}
2015 PV_{54} = 2014 FU_{62}
2015 PY_{54} = 2006 AO_{78} = 2008 QT_{27}
2015 PR_{57} = 2008 OL_{9}
2015 PA_{60} = 2011 EX_{69} = 2012 UD_{127}
2015 PB_{61} = 2010 NC_{32}
2015 PP_{97} = 2010 MU_{33}
2015 PK_{101} = 2011 SV_{217} = 2014 HH_{15}
2015 PS_{140} = 2010 OJ_{42}
2015 PU_{143} = 2010 ML_{87}
2015 PK_{144} = 2011 KL_{31}
2015 PU_{149} = 2008 SQ_{183} = 2012 XD_{89}
2015 PR_{153} = 2012 TC_{305}
2015 PS_{153} = 2011 UQ_{120}
2015 PK_{159} = 2010 FZ_{107} = 2013 YT_{88}
2015 PX_{173} = 2005 WP_{38}
2015 PB_{179} = 2011 UR_{291}
2015 PY_{189} = 2014 HO_{50}
2015 PH_{200} = 2008 YQ_{82} = 2011 OB_{47}
2015 PM_{202} = 2010 RW_{103}
2015 PE_{212} = 2010 FT_{33}
2015 PW_{217} = 2010 OH_{62}
2015 PT_{226} = 2013 CQ_{83}
2015 PC_{230} = 2006 DD_{182}
2015 PH_{230} = 2002 SF_{16}
2015 PK_{230} = 2010 MD_{107}
2015 PR_{231} = 2011 SK_{109}
2015 PS_{231} = 2002 RP_{165} = 2011 FD_{96} = 2012 UE_{107}
2015 PO_{247} = 2014 HO_{35}
2015 PU_{276} = 2008 UR_{108}
2015 PB_{278} = 2005 UW_{175} = 2012 WE_{26}
2015 PL_{281} = 2010 PF_{42}
2015 PX_{284} = 2010 RK_{155}
2015 PZ_{284} = 2011 OY_{35}
2015 PB_{286} = 2007 VT_{303} = 2010 JW_{170} = 2014 KC_{34}
2015 PN_{293} = 2011 SQ_{4}
2015 PE_{295} = 2010 LT_{133}
2015 PD_{299} = 2013 CW_{196}
2015 PM_{303} = 2014 KN_{46}
2015 PD_{304} = 2010 LB_{132}
2015 QQ_{1} = 2011 RT_{9} = 2011 SQ_{204}

NEW NAMES OF MINOR PLANETS

(5212) Celiacruz = 1989 SS

Discovered 1989 Sept. 29 by S. Ueda and H. Kaneda at Kushiro.

Celia Cruz (1925–2003) was a Cuban-American salsa singer and performer, whose career spanned 7 decades, and was renowned internationally as the "Queen of Salsa". She earned 23 gold albums, 7 Grammy Awards, and was a recipient of the USA's National Medal of Arts. She also starred in 13 movies and documentaries.

(5227) Bocacara = 1986 PE

Discovered 1986 Aug. 4 by INAS at Palomar.

Bocacara is a village in Spain, located 80 km SW of the historic university city of Salamanca. It was first settled in the Middle Ages and remained a farming and herding village until the end of the 20th century. Crops included wheat, beans and garbanzos, but Bocacara was renowned in the region for its potatoes.

(5423) Horahořejš = 1983 DC

Discovered 1983 Feb. 16 by Z. Vávrová at Kleť.

Petr Hora Hořejš (b. 1938) is a Czech journalist, screenwriter and novelist. He wrote a thirteen book series about Czech history "Toulky českou minulostí" ("Rambles through Czech History").

(5514) Karelraška = 1989 BN_{1}

Discovered 1989 Jan. 29 by Z. Vávrová at Kleť.

Karel Raška (1909–1987) was a Czech physician and epidemiologist, known as "the father of the conception of epidemiologic surveillance". He was awarded the Edward Jenner Medal by the Royal Society of Medicine.

(8621) Jimparsons = 1981 EK_{7}

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring.

American actor James Joseph "Jim" Parsons (b. 1973) portrays the fictional Caltech theoretical physicist Dr. Sheldon Lee Cooper in the television sitcom "The Big Bang Theory".

(8622) Mayimbialik = 1981 EM$_8$

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring.

American actress and real-life neuroscientist Mayim Hoya Bialik (b. 1975) portrays the fictional neurobiologist Amy Farrah Fowler in the television sitcom "The Big Bang Theory".

(8623) Johnnygalecki = 1981 EQ$_9$

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring.

American actor John Mark "Johnny" Galecki (b. 1975) portrays the fictional Caltech physicist Dr. Leonard Hofstadter in the television sitcom "The Big Bang Theory".

(8625) Simonhelberg = 1981 EX$_{15}$

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring.

American actor and comedian Simon Maxwell Helberg (b. 1980) portrays the fictional Caltech aerospace engineer Howard Wolowitz in the television sitcom "The Big Bang Theory".

(8626) Melissarauch = 1981 EC$_{18}$

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring.

American actress and comedian Melissa Ivy Rauch (b. 1980) portrays microbiologist Bernadette Rostenkowski in the television sitcom "The Big Bang Theory".

(8627) Kunalnayyar = 1981 EU$_{20}$

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring.

British-born Indian actor Kunal Nayyar (b. 1981) portrays the fictional Caltech astrophysicist Dr. Rajesh Koothrappali in the television sitcom "The Big Bang Theory".

(8628) Davidsaltzberg = 1981 EX$_{21}$

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring.

David Saltzberg (b. 1967) is a professor of physics and astronomy at the University of California, Los Angeles, and science consultant for the television sitcom "The Big Bang Theory".

(8629) Chucklorre = 1981 EU$_{26}$

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring.

Chuck Lorre (born Charles Michael Levine, 1952) is an American television writer, director, and producer. He is co-creator and executive producer of the situation comedy "The Big Bang Theory".

(8630) Billprady = 1981 EY$_{35}$

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring.

William Scott Prady (b. 1960) is an American television writer and producer. He is co-creator and executive producer of the situation comedy "The Big Bang Theory".

(9788) Yagami = 1995 EQ$_1$

Discovered 1995 Mar. 11 by T. Kobayashi at Oizumi.

Junko Yagami (b. 1958) is a renowned singer-songwriter. One of her hit songs is 'Polar Star'. She continues to support, through charity concerts, the relief efforts after the Great East Japan Earthquake of 2011.

(9898) Yoshiro = 1996 DF

Discovered 1996 Feb. 18 by T. Kobayashi at Oizumi.

Yoshiro Yamada (b. 1954) is a leading popularizer of astronomy in Japan. He worked at the National Astronomical Observatory as a public outreach official, and also at museums in Sagamihara, Yokohama and Tokyo. He translated Don Yeomans' book on near-earth objects into Japanese.

(10567) Francobressan = 1994 CV

Discovered 1994 Feb. 7 at Farra d'Isonzo.

Franco Bressan (b. 1947) is an Italian mathematics teacher and amateur astronomer. He has been the main editor of the annual Farra d'Isonzo Observatory publication *Moon Almanac* for more than 25 years. He continues to spread astronomy even after his retirement from teaching.

(12028) Annekinney = 1997 AK$_7$

Discovered 1997 Jan. 9 by T. Kobayashi at Oizumi.

Astronomer Anne L. Kinney (b. 1950) quantified the misalignment of the central black hole accretion disk and galaxy disk in Seyfert galaxies. She served as Director of NASA's Universe Division and Director of Goddard's Solar System Exploration Division. In 2015 she was named Chief Scientist for the Keck Observatory.

(13128) Aleppo = 1994 PS$_{28}$

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Aleppo is a city in Syria which, since the 2nd century BC, is at the crossroad of several trade roads and still reflects the rich culture of its successive occupants.

(13131) Palmyra = 1994 PL$_{32}$

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Palmyra, an ancient Semitic city, was first mentioned in the early second milennium BC as a caravan stop for travelers in the Syrian Desert. The inhabitants of it were mainly a mix of Amorites, Arameans, Arabs and a minority of Jews.

(13132) Ortelius = 1994 PO$_{32}$

Discovered 1994 Aug. 12 by E. W. Elst at the European Southern Observatory.

Abraham Ortelius (1527–1598) was a Flemish cartographer and geographer. Creator of the first modern atlas (*Theatrum Orbis Terrarum*, 1570) he believed that the continents were joined together before drifting away from each other.

(13133) Jandecleir = 1994 PL$_{34}$

Discovered 1994 Aug. 10 by E. W. Elst at the European Southern Observatory.

Jan Decleir (b. 1946) is a Flemish movie and stage actor. Appearing in many Flemish and Dutch films, he was nominated for an Oscar for his performance in the 1992 social drama *Daens*.

(13294) Rockox = 1998 QO$_{105}$

Discovered 1998 Aug. 25 by E. W. Elst at the European Southern Observatory.

Nicolaas Rockox (1560–1640), a humanist and maecenas, was a highly respected citizen in Antwerp. A graduate of law from the University of Douai, he became one of the burgomasters of Antwerp in 1603, a position which he held several times.

(13498) Al Chwarizmi = 1986 PX

Discovered 1986 Aug. 6 by E. W. Elst and V. G. Ivanova at Smolyan.

Al Chwarizmi (*c.* 780–*c.* 850) was a Persian mathematician, astronomer and geographer. Latin translations of his work introduced the decimal number system to Europe in the 12th century. His book *Calculation by completion and balancing* presented the first systematic solution of linear and quadratic equations in Arabic.

(13509) Guayaquil = 1989 GU_3

Discovered 1989 Apr. 4 by E. W. Elst at the European Southern Observatory.

Guayaquil is the largest and the most populated city in Ecuador. Founded in 1538 by the conquistador F. de Orellana, it is located on the western bank of the Guayas River, which flows into the Pacific Ocean.

(13513) Manila = 1990 EL_2

Discovered 1990 Mar. 2 by E. W. Elst at the European Southern Observatory.

Manila is the capital of the Philippines, with a capital region of about 12 million inhabitants. With an area of only 2498 hectares, it is the most densely populated place in the world. The Manila Galleon trade route (1565–1815) was the first global trade route in history that crossed the Pacific.

(13523) Vanhassel = 1991 LU_1

Discovered 1991 June 6 by E. W. Elst at the European Southern Observatory.

André Vanhassel (b. 1927) studied classical philology at Ghent University and philosophy at the Université libre de Bruxelles. He was the director of the Lyceum in Antwerp from 1980 to 1985.

(13525) Paulledoux = 1991 PG_3

Discovered 1991 Aug. 2 by E. W. Elst at the European Southern Observatory.

Paul Ledoux (1914–1988) was a Belgian astrophysicist, who was awarded the Francqui Prize for Exact Sciences in 1964. For his investigations into problems of stellar stability and variable stars he was awarded the Janssen Medal of the French Academy of Sciences in 1976. Name suggested by J. Meeus.

(13526) Libbrecht = 1991 PQ_5

Discovered 1991 Aug. 3 by E. W. Elst at the European Southern Observatory.

Ulrich Libbrecht (1928) is a Belgian philosopher. An authority in the field of Eastern and comparative philosophy, he studied sinology at the University of Ghent and became professor of sinology at the University of Leiden. His book *With the Four Seas* is a well-known introduction to comparative philosophy.

(13585) Justinsmith = 1993 TC_{20}

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Justin Erik Halldór Smith (1972) is an American-Canadian philosopher, at present a professor in the Department of Philosophy and Sciences at Diderot University, Paris. His recent book *Nature, Human Nature and Human Difference* (2015) is a collection of philosophical essays.

(13586) Copenhagen = 1993 TY_{22}

Discovered 1993 Oct. 9 by E. W. Elst at the European Southern Observatory.

Founded as a fishing village in the 10th century, Copenhagen became the capital of Denmark in the early 15th century. The name is derived from 'merchants harbour'. Excavations have led to the discovery of a well from the late 12th century, and the remains of an ancient church, with graves dating from the 11th century.

(13703) Romero = 1998 OR_{13}

Discovered 1998 July 26 by E. W. Elst at the European Southern Observatory.

Oscar Romero (1917–1980) was an archbishop in El Salvador. During his mission he actively denounced violations of the human rights of the most vulnerable populations and promoted opposition to all forms of violence.

(15303) Hatoyamamachi = 1992 UJ_2

Discovered 1992 Oct. 19 by K. Endate and K. Watanabe at Kitami.

Hatoyamamachi is a town in Saitama within the Tokyo metropolitan area. While rich in nature, the town contains cutting-edge technology institutes for earth observation, meteorology and fundamental research.

(15806) Kohei = 1994 GN_1

Discovered 1994 Apr. 15 by K. Endate and K. Watanabe at Kitami.

Kohei Mori (b. 1956) is an amateur astronomer and junior high school teacher. He has been a member of the Astronomical Society of Shikoku since 1983, and promotes the astronomical education in his local community.

(16788) Alyssarose = 1997 AR_2

Discovered 1997 Jan. 3 by T. Kobayashi at Oizumi.

Planetary scientist Alyssa Rose Rhoden (b. 1980) studies icy moons throughout the solar system and identified the first geologic evidence of Europa's obliquity. She is a professor at Arizona State University, a mother, a runner, and in her spare time works to promote global food sustainability.

(30938) Montmartre = 1994 BB_4

Discovered 1994 Jan. 16 by E. W. Elst and C. Pollas at Caussols.

Montmartre, a large hill in Paris (France), is primarily known for the white domed basilica on its summit. A beautiful place, it has always been preferred by musicians, painters and writers.

(35137) Meudon = 1992 RT_4

Discovered 1992 Sept. 2 by E. W. Elst at the European Southern Observatory.

Meudon is a small town near Paris, well-known for its famous astronomical observatory.The northwest part of Meudon overlooks the Seine.

(37840) Gramegna = 1998 DA_3

Discovered 1998 Feb. 20 by Osservatorio San Vittore at Bologna.

Maria Gramegna (1887–1915) was an Italian mathematician who studied linear differential equations. The techniques in his thesis, now lost, were highly original. He taught mathematics in Avezzano, and was one of 30000 people killed during the 1915 January 13 earthquake.

(39854) Gabriopiola = 1998 DB_3

Discovered 1998 Feb. 20 by Osservatorio San Vittore at Bologna.

Gabrio Piola Daverio (1794–1850) was an Italian mathematician and physicist, who came from a noble family of Giussano. He studied mathematics and physics at the university of Pavia and wrote many treatises and memoirs on physics, mechanics and mathematics.

(40447) Lorenzoni = 1999 RC_{37}

Discovered 1999 Sept. 11 by Osservatorio San Vittore at Bologna.

Giuseppe Lorenzoni (1843–1914) was an Italian astronomer and scientist, and an assistant to Giovanni Santini at the Padova Astronomical Observatory. He was director of that observatory from 1877 to 1912. He was also a professor of astronomy and geodesy.

(42593) Antoniazzi = 1997 JQ

Discovered 1997 May 1 by Osservatorio San Vittore at Bologna.

Antonio Maria Antoniazzi (1872–1925) was an Italian astronomer, who graduated in mathematics from the University of Padua in 1893 with a thesis in astronomy. He was director of Padova Astronomical Observatory from 1913 to 1925, and studied (433) Eros.

(65637) Tsniimash = 1979 VS_2

Discovered 1979 Nov. 14 by L. V. Zhuravleva at Nauchnyj.

TsNIIMash is an acronym for the Central Research Institute of Mechanical Engineering, which is an institute of the Russian Federal Space Agency. Since 1946, the Institute has made important contribution to the development of the Soviet and Russian space programs and the implementation of human spaceflight.

(71538) Robertfried = 2000 CB_{107}

Discovered 2000 Feb. 5 by the Catalina Sky Survey.

Robert E. Fried (1930–2003), a former airline pilot, was inspired by Patrick Moore to build his own 16-inch telescope. Fried did professional quality photometry on variable stars from his Braeside Observatory, eventually located in Flagstaff, Arizona. He served as President of the Astronomical League from 1974–75 and 1977–78.

(71783) Izeryna = 2000 SL_{163}

Discovered 2000 Sept. 30 by P. Pravec and P. Kušnirák at Ondřejov.

The Izera Dark Sky Park was established in Jizerské hory, around the border between the Czech Republic and Poland, in 2009. The name was derived from oread Izerina, a patroness of Jizerské hory, and from the mineral izeryn that is a local type of ilmenite with a color resembling the darkness of the sky in the park.

(79240) Rosanna = 1994 QD

Discovered 1994 Aug. 26 at Farra d'Isonzo.

Rosanna Spessot (b. 1958) is an Italian amateur astronomer, who is one of the most important staff members on the Farra d'Isonzo Observatory team.

(79241) Fulviobressan = 1994 QE

Discovered 1994 Aug. 26 at Farra d'Isonzo.

Fulvio Bressan (b. 1956) is an Italian amateur astronomer, who was one of the founders of the Farra d'Isonzo Observatory.

(110294) Victoriaharbour = 2001 SK_{265}

Discovered 2001 Sept. 25 by W. K. Y. Yeung at Desert Eagle.

Victoria Harbour is a natural harbor located between Hong Kong Island to the south and Kowloon to the North. It has deep water and is well sheltered and well located, making it one of the busiest seaports in the world. Buildings on both shores are very beautiful, earning Hong Kong the nickname "Pearl of the East".

(114689) Tomstevens = 2003 FJ_{84}

Discovered 2003 Mar. 28 by J. Dellinger at Needville.

Tom Stevens (b. 1933) and his wife Dixie (b. 1938) have been supporters of the George Observatory since its inception in 1989. Tom's many years as an advisor have contributed greatly to the observatory's success.

(115434) Kellyfast = 2003 TU_2

Discovered 2003 Oct. 5 by V. Reddy at Goodricke-Pigott.

Kelly E. Fast (b. 1968) is a program scientist for the MAVEN spacecraft at NASA. She has measured planetary atmospheric compositions and winds, most notably the ozone abundance on Mars, using the HIPWAC instrument at the NASA Infrared Telescope Facility. She is a gifted singer, as featured in "Hotel Mauna Kea".

(133432) Sarahnoble = 2003 SB_{202}

Discovered 2003 Sept. 22 by V. Reddy at Goodricke-Pigott.

Sarah K. Noble (b. 1975) is a discipline scientist for the Planetary Science Division at NASA. A gifted artist in her spare time, she has contributed to our understanding of space weathering processes on the Moon and asteroids.

(144296) Steviewonder = 2004 DF

Discovered 2004 Feb. 16 by W. K. Y. Yeung at Desert Eagle.

Stevie Wonder (b. 1950) is the stage name of Stevland Hardaway Morris. He is a blind American songwriter, singer and multi-instrumentalist. He has recorded more than 30 U.S. top ten hits and received 25 Grammy Awards. This asteroid was discovered without visual blinking, but by computer software.

(173032) Mingus = 2006 QF_{40}

Discovered 2006 Aug. 25 by J. Lacruz at La Cañada.

Jose Antonio Lacruz Martin (b. 1967) obtained his bachelor degree in law at the Universidad Complutense de Madrid. A member of the group of observers at Monte del Pardo, Madrid, he is also known as 'Dr. Mingus' for his famous barbecue ribs by the observers at La Cañada.

(175583) Pingtung = 2006 TV_{94}

Discovered 2006 Oct. 15 by C.-S. Lin and Q.-z. Ye at Lulin.

Pingtung County is the southernmost county in Taiwan. It has some of the country's best beaches, most fertile farmland, richest fish stocks and balmiest weather. It contains the oldest and the largest national park in Taiwan, Kenting National Park.

(200002) Hehe = 2007 JZ_{43}

Discovered 2007 May 6 by PMO NEO Survey Program at XuYi.

"Hehe" ("harmony") is the name of Suzhou Hehe Culture Foundation. "Hehe" is a traditional Chinese symbol representing good marriage and loving family. It symbolizes the goodwill of ordinary people to live peacefully and healthy.

(204839) Suzhouyuanlin = 2007 QK_{13}

Discovered 2007 Aug. 16 by PMO NEO Survey Program at XuYi.

"Suzhou Yuanlin", Suzhou Chinese-style gardens, are typical ancient gardens with traditional Chinese architectures and cultures. "Suzhou Yuanlin" was listed as a cultural heritage of the world by UNESCO in 1997.

(209054) Lombkató = 2003 QR_{29}

Discovered 2003 Aug. 23 by K. Sárneczky and B. Sipőcz at Piszkéstető.

Kató Lomb (1909–2003) was a Hungarian interpreter, translator and one of the first simultaneous interpreters in the world. Originally she graduated in physics and chemistry, but her interest soon led her to languages. She was able to interpret fluently in ten languages, and she translated belles-lettres in six languages.

(242516) Lindseystirling = 2005 AW

Discovered 2005 Jan. 4 by M. Ory at Vicques.

Lindsey Stirling (b. 1986) is an American violonist, dancer and composer. The name was suggested by B. Janda.

(247542) Ripplrónai = 2002 RP_{117}

Discovered 2002 Sept. 8 by K. Sárneczky at Piszkéstető.

József Rippl-Rónai (1861–1927) was a Post-Impressionist avant-garde Hungarian painter, known for working in the Les Nabis style. He first introduced modern artistic movements into Hungarian art. He was also involved in the applied arts, designing glass windows, furniture, chinaware, glasses and gobelins.

(254876) Strommer = 2005 ST_{19}

Discovered 2005 Sept. 24 by K. Sárneczky at Piszkéstető.

Gyula Strommer (1920–1995) was a Hungarian mechanical engineer and mathematician, and a full professor of the Budapest University of Technology, where he taught for 53 years. He studied Lobachevsky-Bolyai-Gauss geometry, and he was the discoverer of the minor planet (1537) Transylvania.

(287693) Hugonnaivilma = 2003 QD$_{31}$

Discovered 2003 Aug. 24 by K. Sárneczky and B. Sipőcz at Piszkéstető.

Vilma Hugonnai (1847–1922) was the first Hungarian woman medical doctor, receiving her degree in 1879 in Zurich. When she returned to Hungary, she could not begin her career because the authorities refused to recognize her qualifications. In 1897 the authorities at last accepted her degree and she could start her own practice.

(287787) Karády = 2003 SY$_{128}$

Discovered 2003 Sept. 20 by K. Sárneczky and B. Sipőcz at Piszkéstető.

Katalin Karády (1910–1990) was a leading actress in Hungarian movies made between 1939–1945. Her first movie role gave her instant fame as a diva, supported by her unusual, humming voice, and femme fatale character. She was awarded the Righteous among the Nations honorific for rescuing a number of Hungarian Jews.

(289020) Ukmerge = 2004 TG$_{115}$

Discovered 2004 Oct. 12 by K. Černis at Moletai.

Ukmerge is a city with 22 000 inhabitants in Vilnius County, Lithuania, located 78 km north-west of Vilnius. Ukmerge was first mentioned in 1225. The city is located near the confluence of the Vilkmerge River and the Sventoji River, and it obtained its Magdeburg city rights in 1486.

(296905) Korochantsev = 2010 CJ$_{36}$

Discovered 2010 Feb. 10 by T. V. Kryachko at Zelenchukskaya Stn.

Vladimir Alexeevich Korochantsev (b. 1934) is a Russian journalist, publicist and writer. He is the author or co-author of more than twenty books about France and African countries, where he worked as correspondent of the Telegraph Agency of the Soviet Union. He is a Honored worker of culture of the Russian Federation.

(302932) Francoballoni = 2003 SB$_{314}$

Discovered 2003 Sept. 29 at Andrushivka.

Nicola Franco Balloni (b. 1950), an Italian diplomat and scholar, has devoted his life to encouraging international cultural cooperation, and promoting his own country's language and culture. He has worked in Ukraine for many years, striving to bring the two nations closer together.

(314163) Kittenberger = 2005 GX

Discovered 2005 Apr. 1 by K. Sárneczky at Piszkéstető.

Kálmán Kittenberger (1881–1958) was a Hungarian traveller, African researcher, zoologist, teacher, hunter and writer on natural history. He made six trips to Africa, and collected 60,000 items for the biological collections of the Hungarian National Museum, including 300 new animal species.

(316084) Mykolapokropyvny = 2009 KT$_{8}$

Discovered 2009 May 26 at Andrushivka.

Mykola Petrovych Pokropyvny (b. 1966) is the director of the Ivan Ogienko Zhytomyr College of Culture and Arts. He is the founder of the Annual International Festival of Brass Music "Solar Clarinets" for talented young musicians held in Zhytomyr every year.

(336108) Luberon = 2008 JD$_{8}$

Discovered 2008 May 2 by M. Ory at Vicques.

Luberon is a region in the middle of Provence in the far south of France. The discoverer has made many treks among the valleys and on the mountains of this beautiful region.

(336392) Changhua = 2008 UU$_{94}$

Discovered 2008 Oct. 23 by X. Y. Hsiao and Q.-z. Ye at Lulin.

Changhua County is situated in the mid-western part of Taiwan Island. It is the smallest county by area and the largest county by population in Taiwan. Changhua County's well-known scenic locations include Bagua Mountain and Wanggong Fishing Port.

(342017) Ramonin = 2008 RA$_{80}$

Discovered 2008 Sept. 12 by J. Lacruz at La Cañada.

Ramon Lacruz Alcaraz (b. 1988) is an aeronautical engineer at Universidad Politecnica de Madrid. One of his passions is observing the night sky from La Cañada Observatory.

(342620) Beita = 2008 UL$_{341}$

Discovered 2008 Oct. 25 by J. Lacruz at La Cañada.

Beatriz Lacruz Alcaraz (b. 1990) is a computer sciences engineer at the Universidad Politecnica de Madrid. She combines her work on the UPM-Sat 2 project with her passion for astronomy.

(351785) Reguly = 2006 HL$_{18}$

Discovered 2006 Apr. 21 by K. Sárneczky at Piszkéstető.

Antal Reguly (1819–1858) was a Hungarian linguist and ethnographer notable for his contribution to the study of Uralic languages. He was the first ethnographer to visit the Mansi people to collect data on their language and folklore. He also visited Finland and translated parts of the Finnish epic, The Kalevala, into Hungarian.

(375043) Zengweizhou = 2007 JV$_{22}$

Discovered 2007 May 11 by Q.-Z. Ye and H.-C. Lin at Lulin.

Zeng Wei-Zhou (1988–2015) was a Chinese amateur astronomer. He was a dedicated observer and a tireless promoter of astronomy for over a decade.

(391988) Illmárton = 2008 YF$_{26}$

Discovered 2008 Dec. 27 by K. Sárneczky at Piszkéstető.

Márton Ill (1930–2015) was a Hungarian astronomer and space scientist. He established the first Hungarian satellite monitoring base at the Baja Astronomical Observatory in 1958, of which he was the director between 1966 and 1990. His main field of research was the study of the properties of the upper atmosphere.

(423205) Echezeaux = 2004 RS$_{1}$

Discovered 2004 Sept. 5 by M. Ory at Vicques.

The village of Flagey-Echezeaux is situated between Beaune and Dijon, France. The Echezeaux wineyard is one of the most famous in Burgundy.

(435728) Yunlin = 2008 UA$_{84}$

Discovered 2008 Oct. 22 by H.-Y. Hsiao and Q.-z. Ye at Lulin.

Yunlin County is a county in western Taiwan. Yunlin is part of the Chianan Plain, a flat land known for its agriculture. Agricultural products of Yunlin County include pomelo, tea leaves, suan cai, papaya and muskmelon.