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EDITORIAL NOTICE

This batch of *Circulars* contains number 100 000, some 31 years after number 10 000 was published. This milestone would have been reached many years ago, except that a lot of material that traditionally had appeared in this journal was transferred to two new journals: the *MPS* in 1997; and the *MPO* in 2000. The total number of pages published in these two journals is around 1.1 million.

The Working Group on Small-Body Nomenclature has voted to change the name of comet P/2015 PD229 to "Cameron-ISON". This notice was included in the ASCII version of the April *MPCs*, but was omitted from the PDF version.

ERRATA

MPC	Line	
99357	20	*For* 2003 09 14 *read* 2003 08 20 [(461508) discovery date]
99357	22	*For* 2003 10 19 *read* 2003 09 18 [(461545) discovery date]
99357	−34	*For* 2010 12 01 *read* 2001 09 19 [(462608) discovery date]
99357	-3	*For* Kitt Peak Spacewatch *read* Siding Spring Siding Spring Survey [(463343) discovery site and discoverer]
99358	22	*For* Palomar *read* Haleakala [(463600) discovery site]
99358	−19	*For* 2003 11 14 *read* 2003 07 28 [(464129) discovery date]
99358	−18	*For* 2013 07 28 *read* 2003 09 26 [(464136) discovery date]
99359	−41	*For* Siding Sprint *read* Siding Spring
99889	-4	*For* (b. 1950) *read* (b. 1955) [(15968) citation]

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 99359. 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	$\rho\cos\phi'$	$\rho\sin\phi'$	
C54				New Horizons
L71	38.5839	0.71089	+0.70101	Vedrus Observatory, Azovskaya
W08	271.88331	0.747086	+0.662545	Jimginny Observatory, Naperville

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Obs.
2013 AZ_{60}	2013 12	28.85905	09 14 11.79	+28 51 10.8	*MPS* 498628	D29
2013 AZ_{60}	2013 12	28.88987	09 14 07.38	+28 50 52.5	*MPS* 498628	D29

IDENTIFICATION CHANGES

Continuation to *MPC* 99359.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1995 UZ_{83}	*1995 10	28.23558	01 18 35.49	+09 21 53.8	1995 UT_{20}		691
1995 UZ_{83}	1995 10	28.25685	01 18 34.47	+09 21 45.0	1995 UT_{20}	20.0 V	691
1995 UZ_{83}	1995 10	28.28087	01 18 33.27	+09 21 35.0	1995 UT_{20}		691
1999 TB_{337}	*1999 10	11.26491	00 58 04.23	+04 07 52.4	1999 VF_{214}	20.2	704
1999 TB_{337}	1999 10	11.27399	00 58 03.64	+04 07 52.3	1999 VF_{214}	20.3	704
1999 TB_{337}	1999 10	11.28305	00 58 03.22	+04 07 51.3	1999 VF_{214}	20.5	704
2002 NJ_{81}	*2002 07	04.27681	20 13 55.57	−19 58 05.2	2003 UB_{298}	22.2 V	291
2002 NJ_{81}	2002 07	04.29801	20 13 54.62	−19 58 06.2	2003 UB_{298}	22.3 V	291
2002 NJ_{81}	2002 07	04.31947	20 13 53.66	−19 58 07.0	2003 UB_{298}	22.1 V	291
2002 TK_{388}	*2002 10	11.333970	00 23 08.915	−00 20 50.99	2002 TB_{328}	20.84V	645
2002 TK_{388}	2002 10	11.337442	00 23 08.730	−00 20 51.85	2002 TB_{328}	21.74	645
2003 WQ_{195}	*2003 11	24.27716	03 49 20.78	+26 51 07.3	2003 WX_{111}	20.1	704
2003 WQ_{195}	2003 11	24.28977	03 49 19.98	+26 51 04.9	2003 WX_{111}	19.9	704
2003 WQ_{195}	2003 11	24.30267	03 49 19.17	+26 51 02.2	2003 WX_{111}	20.2	704
2003 WR_{195}	*2003 11	28.194810	01 32 48.109	−00 43 36.72	2003 UQ_{365}	20.88V	645
2003 WR_{195}	2003 11	28.198282	01 32 48.022	−00 43 36.18	2003 UQ_{365}	21.81	645
2005 BB_{50}	*2005 01	18.34267	07 56 58.91	+20 43 43.6	2003 UB_{298}	21.2 V	691
2005 BB_{50}	2005 01	18.37558	07 56 57.04	+20 43 47.8	2003 UB_{298}	20.9 V	691
2005 BB_{50}	2005 01	18.40297	07 56 55.50	+20 43 51.1	2003 UB_{298}	20.8 V	691
2005 EM_{333}	*2005 03	10.30101	10 36 26.11	+09 57 07.0	2005 EL_{111}	20.0 R	G96
2005 EM_{333}	2005 03	10.30875	10 36 25.70	+09 57 11.2	2005 EL_{111}	19.5 R	G96
2005 EM_{333}	2005 03	10.31634	10 36 25.28	+09 57 15.4	2005 EL_{111}	20.0 R	G96
2005 EM_{333}	2005 03	10.32392	10 36 24.87	+09 57 19.2	2005 EL_{111}	20.0 R	G96
2005 EN_{333}	*2005 03	10.30101	10 37 01.06	+09 57 49.6	2005 EM_{111}	20.9 R	G96
2005 EN_{333}	2005 03	10.30875	10 37 00.67	+09 57 53.1	2005 EM_{111}	20.8 R	G96
2005 EN_{333}	2005 03	10.31634	10 37 00.34	+09 57 57.0	2005 EM_{111}	21.3 R	G96
2005 EN_{333}	2005 03	10.32392	10 36 59.99	+09 58 00.6	2005 EM_{111}	20.7 R	G96
2005 EO_{333}	*2005 03	08.33947	11 46 08.63	+02 06 46.7	2005 EJ_{67}	19.9 R	G96
2005 EO_{333}	2005 03	08.34608	11 46 08.28	+02 06 48.0	2005 EJ_{67}	20.0 R	G96
2005 EO_{333}	2005 03	08.35264	11 46 07.85	+02 06 49.9	2005 EJ_{67}	20.9 R	G96
2005 EO_{333}	2005 03	08.35921	11 46 07.40	+02 06 50.8	2005 EJ_{67}	20.0 R	G96

2005 GP_{229}	*2005 04 10.22046	13 14 39.72	−13 32 40.0	2005 GO_{91}	19.8	V	691
2005 GP_{229}	2005 04 10.24229	13 14 38.63	−13 32 31.4	2005 GO_{91}	19.9	V	691
2005 GP_{229}	2005 04 10.26046	13 14 37.71	−13 32 24.3	2005 GO_{91}	19.9	V	691
2006 CY_{80}	*2006 02 01.33141	10 35 32.55	+14 14 52.1	2006 BU_{280}	21.5	V	691
2006 CY_{80}	2006 02 01.34870	10 35 31.85	+14 14 57.8	2006 BU_{280}	21.6	V	691
2006 CY_{80}	2006 02 01.36597	10 35 31.13	+14 15 02.5	2006 BU_{280}	22.1	V	691
2006 DF_{219}	*2006 02 24.16622	10 17 37.68	+16 14 29.4	2006 BU_{280}	21.1	V	691
2006 DF_{219}	2006 02 24.18352	10 17 36.75	+16 14 35.3	2006 BU_{280}	21.1	V	691
2006 DF_{219}	2006 02 24.20081	10 17 35.86	+16 14 41.4	2006 BU_{280}	21.4	V	691
2007 TU_{454}	*2007 10 13.21434	23 52 22.69	+12 30 27.6	2007 RT_{123}	19.7	V	703
2007 TU_{454}	2007 10 13.22185	23 52 22.44	+12 30 24.4	2007 RT_{123}	19.6	V	703
2007 TU_{454}	2007 10 13.22935	23 52 22.22	+12 30 19.4	2007 RT_{123}	19.7	V	703
2007 TU_{454}	2007 10 13.23687	23 52 21.86	+12 30 16.3	2007 RT_{123}	20.0	V	703
2008 TN_{191}	*2008 10 08.43289	02 53 54.67	−02 09 56.3	2008 SA_{297}	19.5	V	703
2008 TN_{191}	2008 10 08.43890	02 53 54.56	−02 09 58.7	2008 SA_{297}	19.8	V	703
2008 TN_{191}	2008 10 08.44487	02 53 54.24	−02 10 00.1	2008 SA_{297}	19.5	V	703
2008 TN_{191}	2008 10 08.45091	02 53 54.06	−02 09 59.2	2008 SA_{297}	19.6	V	703
2008 TO_{191}	*2008 10 08.20037	23 08 02.40	+00 42 16.2	2008 TR_{28}	19.9	V	G96
2008 TO_{191}	2008 10 08.20579	23 08 02.29	+00 42 14.1	2008 TR_{28}	20.1	V	G96
2008 TO_{191}	2008 10 08.21123	23 08 02.18	+00 42 11.6	2008 TR_{28}	19.8	V	G96
2008 TO_{191}	2008 10 08.21664	23 08 02.04	+00 42 08.6	2008 TR_{28}	20.0	V	G96
2008 UP_{373}	*2008 10 27.34235	03 32 02.86	−15 10 09.5	2008 YP_{27}	19.3	V	703
2008 UP_{373}	2008 10 27.35078	03 32 02.18	−15 10 10.4	2008 YP_{27}	19.1	V	703
2008 UP_{373}	2008 10 27.35939	03 32 01.82	−15 10 11.3	2008 YP_{27}	19.4	V	703
2008 UP_{373}	2008 10 27.36785	03 32 01.21	−15 10 09.2	2008 YP_{27}	19.7	V	703
2009 SS_{369}	*2009 09 26.40530	02 15 06.16	+14 17 37.4	2009 SY_{335}	21.3	V	691
2009 SS_{369}	2009 09 26.42295	02 15 05.51	+14 17 31.9	2009 SY_{335}	21.1	V	691
2009 SS_{369}	2009 09 26.44060	02 15 04.84	+14 17 25.8	2009 SY_{335}	21.2	V	691
2009 UW_{158}	*2009 10 21.44880	04 36 02.01	+21 32 59.0	2009 VH_{82}	20.5	V	G96
2009 UW_{158}	2009 10 21.45711	04 36 01.87	+21 32 57.5	2009 VH_{82}	20.1	V	G96
2009 UW_{158}	2009 10 21.46545	04 36 01.69	+21 32 56.0	2009 VH_{82}	20.3	V	G96
2009 VW_{118}	*2009 11 09.21104	03 41 08.63	+20 43 00.7	2009 WP_{192}	21.0	V	691
2009 VW_{118}	2009 11 09.22824	03 41 07.53	+20 42 59.3	2009 WP_{192}	20.9	V	691
2009 VW_{118}	2009 11 09.24543	03 41 06.42	+20 42 57.9	2009 WP_{192}	21.6	V	691
2010 AN_{140}	*2010 01 06.25729	07 12 52.51	+27 09 15.9	2009 YG_{12}	19.2	C	H10
2010 AN_{140}	2010 01 06.26083	07 12 52.27	+27 09 16.9	2009 YG_{12}			H10
2010 AN_{140}	2010 01 06.26439	07 12 52.12	+27 09 17.7	2009 YG_{12}			H10
2010 CB_{252}	*2010 02 15.23803	10 47 07.81	+10 27 31.0	2010 DS_{91}	21.7	V	691
2010 CB_{252}	2010 02 15.24816	10 47 07.32	+10 27 35.3	2010 DS_{91}	21.5	V	691
2010 CB_{252}	2010 02 15.25829	10 47 06.85	+10 27 38.8	2010 DS_{91}	21.5	V	691
2010 KR_{130}	*2010 05 25.18407	10 36 28.51	+08 25 08.0	2010 DU_{36}	19.0	V	703
2010 KR_{130}	2010 05 25.19076	10 36 28.80	+08 25 06.1	2010 DU_{36}	18.6	V	703
2010 KR_{130}	2010 05 25.19573	10 36 29.08	+08 25 05.7	2010 DU_{36}	18.1	V	703
2010 KR_{130}	2010 05 25.20036	10 36 29.41	+08 25 03.6	2010 DU_{36}	18.4	V	703
2011 AS_{80}	*2011 01 13.21764	08 04 21.82	+23 52 18.6	2011 BW_{134}	21.3	V	G96
2011 AS_{80}	2011 01 13.22450	08 04 21.43	+23 52 20.7	2011 BW_{134}	21.5	V	G96
2011 AS_{80}	2011 01 13.23155	08 04 21.00	+23 52 22.5	2011 BW_{134}	21.3	V	G96
2011 AS_{80}	2011 01 13.23854	08 04 20.56	+23 52 24.0	2011 BW_{134}	21.4	V	G96
2011 GJ_{89}	*2011 04 04.27832	11 52 49.80	+06 32 25.1	2011 GR_{38}	21.8	V	G96
2011 GJ_{89}	2011 04 04.28589	11 52 49.40	+06 32 26.1	2011 GR_{38}	20.9	V	G96
2011 GJ_{89}	2011 04 04.29332	11 52 49.04	+06 32 27.6	2011 GR_{38}	21.6	V	G96
2011 GJ_{89}	2011 04 04.30094	11 52 48.68	+06 32 29.4	2011 GR_{38}	21.0	V	G96
2011 GK_{89}	*2011 04 05.27655	11 55 28.66	−03 22 33.3	2011 FM_{109}	21.0	V	G96
2011 GK_{89}	2011 04 05.28402	11 55 28.34	−03 22 30.5	2011 FM_{109}	21.5	V	G96
2011 GK_{89}	2011 04 05.29156	11 55 27.98	−03 22 28.5	2011 FM_{109}	21.5	V	G96
2011 GK_{89}	2011 04 05.29961	11 55 27.66	−03 22 25.6	2011 FM_{109}	21.5	V	G96
2011 LY_{28}	*2011 06 05.27813	16 24 13.89	−06 42 46.3	2011 KB_{34}	19.7	V	G96
2011 LY_{28}	2011 06 05.28506	16 24 13.50	−06 42 48.0	2011 KB_{34}	19.6	V	G96
2011 LY_{28}	2011 06 05.29198	16 24 13.14	−06 42 49.8	2011 KB_{34}	19.8	V	G96
2011 LY_{28}	2011 06 05.29895	16 24 12.74	−06 42 51.7	2011 KB_{34}	19.8	V	G96
2012 BT_{154}	*2012 01 26.30294	08 21 40.03	+22 13 26.0	2012 BD_{40}	21.6	V	G96
2012 BT_{154}	2012 01 26.30818	08 21 39.67	+22 13 26.4	2012 BD_{40}	21.8	V	G96
2012 BT_{154}	2012 01 26.31344	08 21 39.34	+22 13 27.1	2012 BD_{40}	21.5	V	G96
2012 BT_{154}	2012 01 26.31867	08 21 38.98	+22 13 28.2	2012 BD_{40}	21.5	V	G96
2012 BU_{154}	*2012 01 26.30294	08 22 01.74	+22 13 26.8	2012 BF_{40}	21.2	V	G96
2012 BU_{154}	2012 01 26.30818	08 22 01.38	+22 13 27.5	2012 BF_{40}	20.8	V	G96
2012 BU_{154}	2012 01 26.31344	08 22 01.02	+22 13 28.6	2012 BF_{40}	21.1	V	G96
2012 BU_{154}	2012 01 26.31867	08 22 00.66	+22 13 29.6	2012 BF_{40}	21.0	V	G96
2012 HJ_{85}	*2012 04 16.40217	13 38 34.789	−13 34 48.90	2012 FU_{70}	20.4	w	F51
2012 HJ_{85}	2012 04 16.41540	13 38 34.073	−13 34 45.71	2012 FU_{70}	20.3	w	F51
2012 HJ_{85}	2012 04 16.42859	13 38 33.399	−13 34 41.59	2012 FU_{70}	20.4	w	F51
2012 HJ_{85}	2012 04 16.44183	13 38 32.710	−13 34 37.78	2012 FU_{70}	20.5	w	F51
2014 DA_{143}	*2014 02 28.50122	13 16 24.206	−03 25 53.13	2014 DS_{89}	22.0	w	F51
2014 DA_{143}	2014 02 28.51250	13 16 23.925	−03 25 51.19	2014 DS_{89}	22.3	w	F51
2014 DA_{143}	2014 02 28.52372	13 16 23.638	−03 25 49.23	2014 DS_{89}	22.1	w	F51
2014 DA_{143}	2014 02 28.53500	13 16 23.360	−03 25 47.24	2014 DS_{89}	22.2	w	F51
2014 WU_{508}	*2014 11 22.36199	04 19 28.56	+22 35 22.2	2014 WY_{136}	20.0	V	G96
2014 WU_{508}	2014 11 22.36810	04 19 28.10	+22 35 20.7	2014 WY_{136}	20.1	V	G96
2014 WU_{508}	2014 11 22.37420	04 19 27.69	+22 35 19.1	2014 WY_{136}	20.2	V	G96
2014 WU_{508}	2014 11 22.38030	04 19 27.30	+22 35 17.3	2014 WY_{136}	20.0	V	G96
2014 YW_{49}	*2014 12 26.51842	06 54 03.479	+27 41 09.57	2014 YF_{27}	20.4	w	F51
2014 YW_{49}	2014 12 26.53075	06 54 02.702	+27 41 11.49	2014 YF_{27}	20.5	w	F51
2014 YW_{49}	2014 12 26.54302	06 54 01.904	+27 41 13.40	2014 YF_{27}	20.4	w	F51
2014 YW_{49}	2014 12 26.55540	06 54 01.115	+27 41 15.45	2014 YF_{27}	20.5	w	F51
2016 EZ_{202}	*2016 03 10.45584	13 15 22.926	−04 16 27.05	2016 FG_{24}	22.0	w	F51
2016 EZ_{202}	2016 03 10.45649	13 15 22.892	−04 16 26.80	2016 FG_{24}	22.0	w	F51
2016 EZ_{202}	2016 03 10.46767	13 15 22.489	−04 16 23.86	2016 FG_{24}	22.1	w	F51
2016 EZ_{202}	2016 03 10.46832	13 15 22.467	−04 16 23.86	2016 FG_{24}	22.1	w	F51
2016 EZ_{202}	2016 03 10.47952	13 15 22.083	−04 16 20.94	2016 FG_{24}	21.9	w	F51
2016 EZ_{202}	2016 03 10.49199	13 15 21.646	−04 16 17.72	2016 FG_{24}	21.8	w	F51

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 99361:

1990 RJ_{16} = (467243)	1996 UH_3 = (467036)	1999 VS_{224} = (466361)
2000 TM_{74} = (465665)	2000 XN_{53} = (465324)	2003 WX_{111} = (466488)
2004 DZ_{79} = (466208)	2005 BT_{49} = (329705)	2005 EQ_{60} = (466446)
2005 EJ_{67} = (466318)	2005 EM_{111} = (466301)	2005 EB_{274} = (466318)
2005 EM_{333} = (466301)	2005 GE_{229} = (465555)	2005 JL_{144} = (466340)
2005 JD_{153} = (466767)	2005 JE_{186} = (466467)	2005 LB_{45} = (466500)
2008 SA_{297} = (467168)	2008 TM_{191} = (466745)	2008 UM_{64} = (467150)
2008 WE_{142} = (466488)	2009 SL_{149} = (466125)	2010 EN_{151} = (465005)
2010 HN_{53} = (466383)	2010 JW_{144} = (466486)	2010 MM_{105} = (466719)
2011 GW_{88} = (465785)	2012 BD_{40} = (464857)	2012 BU_{154} = (464857)

2012 FG_{84} = (465186) 2012 MS_{14} = (467065) 2013 HU_{69} = (464647)
2013 SR_4 = (465188) 2013 SZ_{14} = (465463) 2013 SL_{91} = (466466)
2013 SD_{95} = (465462) 2013 TD_{31} = (467065) 2014 WJ_{186} = (464996)
2014 WC_{214} = (467085) 2014 WU_{508} = (466710) 2015 AN_{118} = (329705)
2016 EQ_{194} = (466000)

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripieri, M. Michela, L. Nerli, L. Mazzei, E. Fermi. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m $f/4$ reflector + CCD, 0.60-m reflector + CCD.

107 Cavezzo. Observers R. Bonomi, P. Negrelli, M. Facchini. Measurers R. Bonomi, P. Negrelli. 0.4-m $f/5.5$ reflector + CCD.

130 Lumezzane. Observers M. Casali, A. Coffano, W. Marinello, M. Micheli, G. Pizzetti. Measurer W. Marinello. 0.40-m $f/5.12$ reflector + CCD.

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

168 Kourovskaya. Observer Y. Wiebe. Measurers Y. Wiebe, G. Kaiser. 0.40-m $f/0.78$ Schmidt + CCD.

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

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

246 Kleť Observatory-KLENOT. Observers M. Tichý, J. Tichá, M. Kočer. Measurer M. Tichý. 1.06-m KLENOT Telescope + 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. Observer T. Seki. Measurers T. Seki, H. Sato. 0.70-m $f/10$ reflector.

448 Desert Moon Observatory. Observer B. L. Stevens. 0.3-m Schmidt-Cassegrain + CCD.

458 Guadarrama Observatory. Observer D. Rodríguez. 0.25-m $f/6.3$ Schmidt-Cassegrain + CCD.

461 University of Szeged, Piszkéstető Stn. (Konkoly). Observer K. Sárneczky. 0.60-m Schmidt + CCD.

467 Auckland Observatory. Observer J. McCormick. 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.

568 Mauna Kea. Observers D. Fohring, D. J. Tholen, Y. Ramanjooloo, D. Hung, R. J. Wainscoat, D. Woodworth, L. Wells. Measurers D. J. Tholen, M. Micheli, R. J. Wainscoat. 2.24-m University of Hawaii reflector, 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.

691 Steward Observatory, Kitt Peak. Observers R. A. Mastaler, T. H. Bressi, A. F. Tubbiolo T. H. Bressi, A. F. Tubbiolo, A. F. Tubbiolo A. F. Tubbiolo. Measurers T. H. Bressi, A. F. Tubbiolo. 0.9-m $f/3$ reflector + CCD.

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

711 McDonald Observatory. Observer A. McKay. Measurer M. Micheli. 0.8-m reflector + CCD.

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

850 Cordell-Lorenz Observatory, Sewanee. Observer D. T. Durig. 0.3-m $f/2.6$ Schmidt-Cassegrain + CCD, 0.3-m $f/4.9$ Schmidt-Cassegrain + CCD.

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

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

958 Observatoire de Dax. Observer P. Dupouy. 0.51-m $f/6$ reflector + CCD.

A71 Stixendorf. Observers M. Jaeger, W. Vollmann, E. Prosperi, S. Prosperi. Measurer W. Vollmann. 0.25-m $f/4$ reflector + CCD, 0.35-m $f/3.1$ reflector + CCD.

A77 Observatoire Chante-Perdrix, Dauban. Observers J. Nicolas, F. Kugel, A. Klotz, C. Rinner, J.-F. Soulier. Measurers J. Nicolas, F. Kugel, J.-F. Soulier. 0.20-m $f/2.1$ Schmidt-Cassegrain + CCD, 0.20-m $f/4$ Newtonian reflector + CCD, 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. 0.20-m $f/4$ Newtonian reflector + CCD, 0.20-m $f/4.0$ reflector + CCD.

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

B50 Corner Observatory, Durmersheim. Observer J. Linder. 0.20-m $f/9.7$ Schmidt-Cassegrain + CCD.

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

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

C10 Maisoncelles. Observer J.-F. Soulier. 0.30-m $f/3.8$ Newtonian reflector + CCD.

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

C35 Terrassa. Observer J. Aledo. 0.40-m $f/3.4$ reflector.

C36 Starry Wanderer Observatory, Baran'. Observer S. Shurpakov. 0.15-m $f/3.2$ Newtonian reflector + CCD, 0.20-m $f/4$ Newtonian reflector + CCD, 0.25-m $f/4.7$ Newtonian reflector + CCD, 0.25-m $f/5$ Newtonian reflector + CCD.

C41 MASTER-II Observatory, Kislovodsk. Observers V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, V. Chazov, A. Kuznetsov, K. Ivanov, O. Gress, A. Tlatov, V. Senik, D. Dormidontov, A. Parkhomenko. 0.4-m $f/2.5$ 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.

D29 Purple Mountain Observatory, XuYi Station. Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu, B. Mei, X. P. Lu, R. Q. Honag. 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.

D88 Hiratsuka. Observer Y. Sugiyama. 0.25-m $f/5.0$ reflector + CCD.

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

E23 Arcadia. Observer A. Hidas. 0.35-m $f/7.0$ Schmidt-Cassegrain + CCD.
E94 Possum Observatory, Gisborne. Observer J. Drummond. 0.41-m $f/4.5$ Newtonian reflector + 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.
G26 Fushan Observatory, Mt Shaohua. Observer W. Pei. 0.28-m $f/2$ Schmidt-Cassegrain + CCD.
G40 Slooh.com Canary Islands Observatory. Observers B. Lütkenhöner, J. Tuten, G. Gašparović, Y. Chen, P. Cox, R. E. Walker. Measurers B. Lütkenhöner, G. Gašparović, Y. Chen. 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 M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, G. Spitz. Measurers M. Cornell, A. Klein, J. Ruprecht, G. Ushomirsky, J. Varey, D. Woods. 3.5-m $f/1$ reflector + CCD.
G96 Mt. Lemmon Survey. Observers D. C. Fuls, A. D. Grauer, R. G. Matheny. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly. 1.5-m reflector + CCD.
H01 Magdalena Ridge Observatory, Socorro. Observers W. H. Ryan, E. V. Ryan. Measurer W. H. Ryan. 2.4-m $f/8.9$ reflector + CCD.
H06 iTelescope Observatory, Mayhill. Observers D. Denisenko, S. Korotkiy, H. Sato, M. Suzuki, A. S. Betzler, M. Mattiazzo, B. Lütkenhöner. Measurers D. Denisenko, P. Kachalin, L. Lakiza, H. Sato, M. Suzuki, A. S. Betzler, M. Mattiazzo, B. Lütkenhöner. 0.25-m $f/3.4$ astrograph + CCD, 0.43-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer.
H15 ISON-NM Observatory, Mayhill. Observer L. Elenin. 0.4-m $f/3$ reflector + 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 $f/6$ astrograph + CCD.
H47 Vicksburg. Observer C. Bell. 0.3-m Schmidt-Cassegrain + CCD.
I39 Observatorio Cruz del Sur, San Justo. Observer A. Chapman. 0.20-m $f/4$ reflector + CCD.
I41 Palomar Mountain–PTF. Observers Palomar Transient Factory, D. Bodewits, R. Laher. Measurers F. Masci, M. Micheli. 1.2-m $f/2.44$ Schmidt + CCD.
I47 Pierre Auger Observatory, Malargüe. Observers M. Masek, J. Jurysek, K. Honkova. Measurer M. Masek. 0.3-m $f/10$ reflector + CCD.
I52 Steward Observatory, Mt. Lemmon Station. Observer R. A. Kowalski. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly. 1.0-m reflector + CCD.
I72 Observatorio Carpe-Noctem, Madrid. Observer J. L. Martin. 0.30-m Ritchey-Chrétien + CCD.
I81 Tarbatness Observatory, Portmahomack. Observer D. Buczynski. 0.30-m $f/4$ Newtonian reflector + CCD, 0.35-m Schmidt-Cassegrain + CCD + $f/6$ focal reducer.
I99 Observatorio Blanquita, Vaciamadrid. Observer F. Limon. 0.20-m $f/5.7$ Schmidt-Cassegrain + CCD.
J01 Observatorio Cielo Profundo, Leon. Observer J. Gonzalez. 0.28-m $f/10$ Schmidt-Cassegrain + CCD, 0.28-m $f/6$ Schmidt-Cassegrain + CCD.
J04 ESA Optical Ground Station, Tenerife. Observer P. Ruiz. Measurers A. Knöfel, D. Koschny, M. Busch, M. Micheli, E. Schwab. 1.0-m $f/4.4$ reflector + CCD.
J22 Tacande Observatory, La Palma. Observer K. Hills. 0.5-m $f/2.9$ astrograph + CCD.
J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m $f/8.1$ Ritchey-Chrétien + CCD.
J43 Oukaïmeden Observatory, Marrakech. Observer M. Ory. 0.5-m $f/3$ reflector + CCD.
K02 Eastwood Observatory, Leigh on Sea. Observer P. Carson. 0.32-m reflector + CCD + $f/5.4$ focal reducer.
K10 Micro Palomar, Reilhanette. Observer H. Boussier. 0.13-m $f/7.4$ Schmidt-Cassegrain + CCD.
K14 Observatorio de Sencelles. Observer M. Morales. 0.20-m Newtonian reflector + CCD, 0.20-m $f/5$ Newtonian reflector + CCD.
K21 Saint-Saturnin-lès-Avignon. Observer H. Boussier. 0.20-m $f/5.9$ Schmidt-Cassegrain + CCD, 0.20-m $f/6$ Schmidt-Cassegrain + CCD.
K25 Haute Provence Sud, Saint-Michel-l'Observatoire. Observer L. Arnold. 0.20-m $f/5.5$ Newtonian reflector + CCD.
K41 Vegaquattro Astronomical Obs., Novi Ligure. Observer V. Luna. 0.3-m Schmidt-Cassegrain + CCD.
K46 Bamberg. Observer K. Volkel. 0.10-m $f/6.8$ refractor + CCD.
K61 Rokycany Observatory. Observer M. Adamovsky. 0.51-m $f/6.8$ reflector + CCD.
K92 Sutherland-LCOGT B. Observers T. Lister, S. Greenstreet, E. Gomez. Measurer T. Lister. 1.0-m $f/8$ Ritchey-Chrétien + CCD.
K95 MASTER-SAAO Observatory, Sutherland. Observers V. Lipunov, E. Gorbovskoy, D. Buckley, P. Balanutsa, V. Kornilov, A. Kuznetsov, V. Chazov, N. Tiurina, O. Gress, D. Vlasenko. 0.4-m $f/2.5$ reflector + CCD.
L04 ROASTERR-1 Observatory, Cluj-Napoca. Observer L. Hudin. 0.3-m $f/5.0$ reflector + CCD.
L22 Bârlad Observatory. Observer C. Vintdevara. 0.2-m $f/4$ Newtonian reflector + CCD.
L71 Vedrus Observatory, Azovskaya. Observer O. Milantiev. Measurer A. Belotsky. 0.25-m $f/4.6$ reflector + CCD.
Q19 Machida. Observer K. Sugawara. 0.2-m $f/4.0$ reflector + CCD.
Q21 Southern Utsunomiya. Observer H. Nohara. 0.4-m $f/3.8$ 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, L. Buzzi, P. Concari, S. Foglia, G. Galli, M. Tombelli, M. Suzuki. 0.15-m $f/7$ refractor + CCD, 0.32-m $f/9.3$ Ritchey-Chrétien + CCD, 0.43-m $f/6.8$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.70-m $f/6.6$ astrograph + 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.
T05 ATLAS-HKO, Haleakala. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry, A. Sherstyuk. Measurers L. Denneau, A. Heinze, J. Tonry. 0.5-m $f/2.0$ Schmidt + CCD.
U69 iTelescope SRO Observatory, Auberry. Observer H. Sato. 0.61-m $f/6.5$ astrograph + CCD.

V02 Command Module, Tempe. Observer T. Polakis. Measurer M. Micheli. 0.3-m $f/6.5$ reflector + CCD.
V83 Rolling Hills Observatory, Warrensburg. Observer R. Owens. 0.36-m $f/1.9$ Schmidt-Cassegrain + CCD.
W88 Slooh.com Chile Observatory, La Dehesa. Observer B. Lütkenhöner. 0.35-m $f/11$ Schmidt-Cassegrain + CCD.
W96 CAO, San Pedro de Atacama (since 2013). Observers A. Maury, J.-B. de Vanssay, J.-F. Soulier. Measurer J.-F. Soulier. 0.4-m $f/8$ Ritchey-Chrétien + CCD.
Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros. Measurer C. Jacques. 0.45-m $f/2.9$ reflector + CCD.
Z22 MASTER-IAC Observatory, Tenerife. Observers V. Lipunov, E. Gorbovskoy, R. Rebolo, G. Israelyan, M. Serra-Ricart, N. Lodieu, P. Balanutsa, A. Kuznetsov, N. Tiurina, O. Gress, V. Chazov, K. Ivanov, D. Vlasenko. 0.4-m $f/2.5$ reflector + CCD.
Z39 Observatorio Costa Teguise. Observer A. Acosta. Measurers A. Sofia, A. Silvia. 0.20-m $f/7$ Schmidt-Cassegrain + CCD.
Z78 Arroyo Observatory, Arroyo Hurtado. Observers S. P. Rodriquez, S. P. Rodriguez. Measurer J. A. R. Garcia. 0.30-m $f/10$ Schmidt-Cassegrain + CCD.
Z80 Northolt Branch Observatory. Observer G. Wells. Measurer D. Bamberger. 0.15-m $f/10$ reflector + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
P/2003 T12 (SOHO)							
P/2003 T12	2016 05 05.247147	06 11 40.157	+17 33 15.90	22.1	T	2	568
P/2003 T12	2016 05 05.250547	06 11 41.138	+17 33 16.37	22.4	T	2	568
P/2003 T12	2016 05 05.253767	06 11 42.059	+17 33 16.80	22.2	T	2	568
P/2003 T12	2016 05 05.257023	06 11 42.996	+17 33 17.23	22.4	T	2	568
C/2006 S3 (LONEOS)							
C/2006 S3	2016 04 28.99513	10 25 12.31	−03 03 55.3	19.2	N	9	G40
C/2006 S3	2016 04 29.02897	10 25 11.81	−03 03 50.2	19.3	N	9	G40
C/2006 S3	2016 04 29.34281	10 25 07.34	−03 03 07.8	18.8	T		T05
C/2006 S3	2016 04 29.35543	10 25 07.16	−03 03 04.5	19.0	T		T05
C/2006 S3	2016 04 29.36966	10 25 06.89	−03 03 05.9	19.1	T		T05
C/2006 S3	2016 04 29.38608	10 25 06.84	−03 02 59.4	19.0	T		T05
C/2006 S3	2016 04 29.93069	10 24 58.93	−03 01 49.3	19.4	T	K	215
C/2006 S3	2016 04 29.93262	10 24 58.89	−03 01 47.4	19.7	T	K	215
C/2006 S3	2016 04 29.93455	10 24 58.86	−03 01 47.3	19.5	T	K	215
C/2006 S3	2016 04 30.25894	10 24 54.398	−03 01 01.03	20.9	T		F51
C/2006 S3	2016 04 30.27010	10 24 54.224	−03 00 59.44	20.9	T		F51
C/2006 S3	2016 04 30.28122	10 24 54.085	−03 00 58.01	20.8	T		F51
C/2006 S3	2016 04 30.29233	10 24 53.903	−03 00 56.34	20.9	T		F51
C/2006 S3	2016 05 01.42645	10 24 37.96	−02 58 23.5	18.5	N	K	Q68
C/2006 S3	2016 05 01.45754	10 24 37.77	−02 58 21.5	18.3	N	K	Q68
C/2006 S3	2016 05 05.36039	10 23 47.73	−02 49 49.9	19.2	N	K	Q68
C/2006 S3	2016 05 05.40218	10 23 47.17	−02 49 45.0	19.1	N	K	Q68
C/2006 S3	2016 05 05.44414	10 23 46.62	−02 49 39.2	18.9	N	K	Q68
C/2010 U3 (Boattini)							
C/2010 U3	2016 04 04.82523	03 23 53.85	+47 03 57.3	18.0	N	K	585
C/2010 U3	2016 04 04.82630	03 23 53.82	+47 03 58.2	18.0	N	K	585
C/2010 U3	2016 04 04.82736	03 23 53.86	+47 03 58.7	18.1	N	K	585
C/2010 U3	2016 04 04.82892	03 23 53.95	+47 03 59.3	18.1	N	K	585
C/2010 U3	2016 04 04.82982	03 23 53.87	+47 03 58.1	18.0	N	K	585
C/2010 U3	2016 04 04.83079	03 23 53.90	+47 03 58.9	18.3	N	K	585
C/2010 U3	2016 04 04.83280	03 23 54.07	+47 03 59.2	18.1	N	K	585
C/2012 F3 (PANSTARRS)							
C/2012 F3	2016 04 23.22435	22 54 31.32	−04 53 54.4			9	G40
C/2012 F3	2016 04 23.23080	22 54 31.60	−04 53 53.1	18.1	N	9	G40
C/2012 K1 (PANSTARRS)							
C/2012 K1	2015 12 09.44495	22 34 19.04	−26 04 33.6			1	Q62
C/2012 K1	2015 12 09.44801	22 34 19.06	−26 04 33.0	15.7	T	1	Q62
C/2012 K1	2016 05 04.80357	23 18 21.91	−18 15 10.3			1	Q62
C/2012 K1	2016 05 04.80776	23 18 21.95	−18 15 10.2	17.6	T	1	Q62
C/2012 K8 (Lemmon)							
C/2012 K8	2016 05 03.97925	12 09 34.97	+62 58 12.9	19.0	N	K	C23
C/2012 K8	2016 05 03.98719	12 09 34.57	+62 58 09.3	18.9	N	K	C23
C/2012 K8	2016 05 05.89257	12 07 12.88	+62 47 42.6	20.0	T	K	461
C/2012 K8	2016 05 05.90042	12 07 12.35	+62 47 39.4	20.1	T	K	461
C/2013 A1 (Siding Spring)							
C/2013 A1	2016 03 15.20064	12 29 26.93	+49 23 02.3	18.1	T		G45
C/2013 A1	2016 03 15.20074	12 29 26.84	+49 23 02.3	18.2	T		G45
C/2013 A1	2016 03 15.20088	12 29 26.85	+49 23 02.2	18.7	T		G45
C/2013 A1	2016 03 15.20596	12 29 26.45	+49 23 03.7	18.4	T		G45
C/2013 A1	2016 03 15.20620	12 29 26.51	+49 23 03.8	18.5	T		G45
C/2013 A1	2016 03 15.21135	12 29 26.01	+49 23 04.4	18.2	T		G45
C/2013 A1	2016 03 15.21155	12 29 26.02	+49 23 05.9	19.1	T		G45
C/2013 A1	2016 04 25.99229	11 37 50.92	+49 12 44.9	19.5	N	9	G40
C/2013 A1	2016 04 26.00513	11 37 50.29	+49 12 41.4	19.5	N	9	G40
C/2013 A1	2016 04 28.01276	11 36 01.42	+49 04 43.8	18.5	N	K	I81
C/2013 A1	2016 04 28.01632	11 36 01.21	+49 04 43.0	18.7	N	K	I81
C/2013 A1	2016 04 28.02418	11 36 00.73	+49 04 41.0	18.9	N	K	I81
C/2013 A1	2016 04 30.94978	11 33 30.65	+48 52 15.9	18.8	N	K	C23
C/2013 A1	2016 04 30.95988	11 33 30.43	+48 52 12.0	18.7	N	K	C23
C/2013 A1	2016 05 03.00000	11 31 51.72	+48 42 59.3	18.5	N	K	I81
C/2013 A1	2016 05 03.00729	11 31 51.41	+48 42 55.9	18.4	N	K	I81
C/2013 A1	2016 05 03.01541	11 31 51.15	+48 42 54.9	18.5	N	K	I81
C/2013 A1	2016 05 08.92379	11 27 33.14	+48 13 58.6	18.8	N	K	C23
C/2013 A1	2016 05 08.92956	11 27 32.97	+48 13 57.4	18.5	N	K	C23
C/2013 A1	2016 05 08.93534	11 27 32.83	+48 13 56.0	18.3	N	K	C23
C/2013 C2 (Tenagra)							
C/2013 C2	2016 04 04.69402	13 24 09.85	−25 48 21.3			1	Q62
C/2013 C2	2016 04 04.69672	13 24 09.83	−25 48 20.7	16.7	T	1	Q62
C/2013 C2	2016 05 01.52034	13 16 46.74	−24 43 44.7	18.4	N	K	Q68
C/2013 C2	2016 05 01.54635	13 16 46.36	−24 43 39.7	18.6	N	K	Q65
C/2013 C2	2016 05 01.56748	13 16 46.04	−24 43 36.3	18.9	N	K	Q65
C/2013 C2	2016 05 01.58920	13 16 45.68	−24 43 32.8	18.1	N	K	Q65
C/2013 C2	2016 05 01.70347	13 16 43.94	−24 43 13.7	18.5	N	K	Q68
C/2013 C2	2016 05 02.35168	13 16 34.371	−24 41 27.61	19.7	T		F51
C/2013 C2	2016 05 02.36328	13 16 34.181	−24 41 25.42	19.7	T		F51
C/2013 C2	2016 05 02.37489	13 16 34.013	−24 41 23.69	19.7	T		F51
C/2013 C2	2016 05 02.38653	13 16 33.829	−24 41 21.55	19.8	T		F51

C/2013 C2	2016 05 02.61666	13 16 30.42	−24 40 42.0	18.6	N	Q68
C/2013 C2	2016 05 02.66359	13 16 29.64	−24 40 33.5	18.6	N	Q68
C/2013 C2	2016 05 05.97720	13 15 41.99	−24 31 16.4	18.4	N	J22
C/2013 C2	2016 05 05.98372	13 15 41.89	−24 31 15.4	18.4	N	J22
C/2013 C2	2016 05 05.99022	13 15 41.75	−24 31 14.5	18.4	N	J22
C/2013 C2	2016 05 13.53598	13 14 03.20	−24 09 40.7	18.7	N	K Q68
C/2013 C2	2016 05 13.63456	13 14 02.01	−24 09 23.3	18.7	N	K Q68
C/2013 C2	2016 05 15.58167	13 13 39.35	−24 03 48.7	18.3	N	K Q68
C/2013 C2	2016 05 15.62982	13 13 38.67	−24 03 39.6	18.6	N	K Q68

C/2013 G9 (Tenagra)

C/2013 G9	2015 03 27.64425	11 51 19.57	−22 40 17.0	16.5	T	349
C/2013 G9	2015 03 27.65179	11 51 18.89	−22 40 14.4			349

C/2013 TW$_5$ (Spacewatch)

C/2013 TW$_5$	2015 12 18.71704	12 24 58.56	−28 52 06.8			1 Q62
C/2013 TW$_5$	2015 12 18.71870	12 24 58.63	−28 52 07.2	17.4	T	1 Q62

C/2013 U2 (Holvorcem)

C/2013 U2	2015 03 30.61140	09 55 00.86	+53 10 54.1	17.5	T	349
C/2013 U2	2015 03 30.63225	09 55 00.33	+53 10 43.5			349
C/2013 U2	2016 04 22.35567	11 36 32.136	+16 57 15.54	20.1	T	F51
C/2013 U2	2016 04 22.36848	11 36 31.875	+16 57 12.87	20.1	T	F51
C/2013 U2	2016 04 22.38110	11 36 31.573	+16 57 10.55	20.3	T	F51
C/2013 U2	2016 04 22.39376	11 36 31.327	+16 57 08.10	20.2	T	F51
C/2013 U2	2016 04 27.93849	11 34 43.84	+16 38 35.9	19.2	T	K 215
C/2013 U2	2016 04 27.93978	11 34 43.82	+16 38 35.5	19.3	T	K 215
C/2013 U2	2016 04 27.94106	11 34 43.81	+16 38 35.0	19.3	T	K 215

C/2013 US$_{10}$ (Catalina)

C/2013 US$_{10}$	2015 12 18.80939	14 17 17.12	+01 31 05.7	6.6	T	349
C/2013 US$_{10}$	2015 12 18.81278	14 17 17.09	+01 31 17.5			349
C/2013 US$_{10}$	2015 12 18.81618	14 17 17.06	+01 31 29.1			349
C/2013 US$_{10}$	2015 12 18.81947	14 17 17.04	+01 31 40.5			349
C/2013 US$_{10}$	2016 02 26.88132	04 09 26.81	+59 53 37.8	13.9	N	B50
C/2013 US$_{10}$	2016 02 26.88610	04 09 26.88	+59 53 28.0	12.7	N	B50
C/2013 US$_{10}$	2016 03 09.90635	04 10 14.65	+54 51 21.8	13.7	N	B50
C/2013 US$_{10}$	2016 03 09.90874	04 10 14.67	+54 51 19.4	13.1	N	B50
C/2013 US$_{10}$	2016 03 09.92309	04 10 15.03	+54 51 02.3	13.7	N	B50
C/2013 US$_{10}$	2016 03 09.92549	04 10 15.08	+54 50 59.1	13.6	N	B50
C/2013 US$_{10}$	2016 03 09.93266	04 10 15.17	+54 50 50.4	13.3	N	B50
C/2013 US$_{10}$	2016 03 10.76413	04 10 34.01	+54 34 48.4	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76485	04 10 34.04	+54 34 47.4	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76558	04 10 34.09	+54 34 46.6	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76630	04 10 34.08	+54 34 45.7	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76702	04 10 34.08	+54 34 44.9	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76774	04 10 34.14	+54 34 44.0	12.8	N	585
C/2013 US$_{10}$	2016 03 10.76955	04 10 34.17	+54 34 41.8	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77086	04 10 34.13	+54 34 40.5	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77158	04 10 34.19	+54 34 39.5	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77230	04 10 34.26	+54 34 38.9	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77302	04 10 34.25	+54 34 38.0	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77483	04 10 34.29	+54 34 35.7	12.7	N	585
C/2013 US$_{10}$	2016 03 10.77554	04 10 34.31	+54 34 35.0	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77627	04 10 34.31	+54 34 34.2	12.8	N	585
C/2013 US$_{10}$	2016 03 10.77699	04 10 34.32	+54 34 33.2	12.8	N	585
C/2013 US$_{10}$	2016 03 16.75910	04 13 25.25	+52 52 46.1	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76027	04 13 25.26	+52 52 45.0	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76099	04 13 25.30	+52 52 44.4	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76282	04 13 25.35	+52 52 42.5	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76353	04 13 25.39	+52 52 41.9	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76424	04 13 25.39	+52 52 41.3	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76495	04 13 25.43	+52 52 40.6	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76919	04 13 25.56	+52 52 36.7	12.9	N	585
C/2013 US$_{10}$	2016 03 16.76990	04 13 25.58	+52 52 36.1	12.9	N	585
C/2013 US$_{10}$	2016 03 16.77060	04 13 25.61	+52 52 35.3	12.9	N	585
C/2013 US$_{10}$	2016 03 16.77131	04 13 25.63	+52 52 34.7	12.9	N	585
C/2013 US$_{10}$	2016 03 16.77202	04 13 25.64	+52 52 34.0	12.9	N	585
C/2013 US$_{10}$	2016 03 16.79435	04 13 26.37	+52 52 13.5	12.9	N	585
C/2013 US$_{10}$	2016 03 16.79506	04 13 26.42	+52 52 12.2	12.9	N	585
C/2013 US$_{10}$	2016 03 17.87892	04 14 02.95	+52 36 06.2	13.7	N	B50
C/2013 US$_{10}$	2016 03 17.89009	04 14 03.30	+52 35 56.4	13.8	N	B50
C/2013 US$_{10}$	2016 03 17.89089	04 14 03.34	+52 35 55.1	12.7	N	B50
C/2013 US$_{10}$	2016 03 17.90045	04 14 03.67	+52 35 47.0	13.8	N	B50
C/2013 US$_{10}$	2016 03 26.86584	04 19 52.44	+50 44 19.2	13.2	N	585
C/2013 US$_{10}$	2016 03 26.86657	04 19 52.51	+50 44 18.8	13.2	N	585
C/2013 US$_{10}$	2016 03 26.86756	04 19 52.54	+50 44 18.2	13.2	N	585
C/2013 US$_{10}$	2016 03 26.86828	04 19 52.57	+50 44 17.7	13.2	N	585
C/2013 US$_{10}$	2016 03 26.86844	04 19 52.81	+50 44 17.6	14.6	N	B50
C/2013 US$_{10}$	2016 03 26.86973	04 19 52.62	+50 44 16.8	13.2	N	585
C/2013 US$_{10}$	2016 03 26.87117	04 19 52.68	+50 44 15.8	13.2	N	585
C/2013 US$_{10}$	2016 03 26.87189	04 19 52.68	+50 44 15.4	13.2	N	585
C/2013 US$_{10}$	2016 03 26.87261	04 19 52.81	+50 44 14.8	13.2	N	585
C/2013 US$_{10}$	2016 03 26.87334	04 19 52.81	+50 44 14.4	13.2	N	585
C/2013 US$_{10}$	2016 03 26.87730	04 19 53.15	+50 44 11.3	13.6	N	B50
C/2013 US$_{10}$	2016 03 27.88558	04 20 36.39	+50 33 45.4	13.2	N	585
C/2013 US$_{10}$	2016 03 27.88969	04 20 36.57	+50 33 42.9	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89041	04 20 36.61	+50 33 42.6	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89114	04 20 36.66	+50 33 42.2	13.1	N	585
C/2013 US$_{10}$	2016 03 27.89186	04 20 36.64	+50 33 41.7	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89258	04 20 36.70	+50 33 41.2	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89330	04 20 36.73	+50 33 40.9	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89402	04 20 36.76	+50 33 40.3	13.2	N	585
C/2013 US$_{10}$	2016 03 27.89547	04 20 36.83	+50 33 39.5	13.2	N	585
C/2013 US$_{10}$	2016 04 04.77607	04 26 37.55	+49 23 47.4	13.5	N	585
C/2013 US$_{10}$	2016 04 04.77677	04 26 37.57	+49 23 46.7	13.5	N	585
C/2013 US$_{10}$	2016 04 04.77749	04 26 37.56	+49 23 46.6	13.4	N	585
C/2013 US$_{10}$	2016 04 04.77820	04 26 37.64	+49 23 46.6	13.4	N	585
C/2013 US$_{10}$	2016 04 04.77891	04 26 37.70	+49 23 46.1	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78075	04 26 37.76	+49 23 44.9	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78146	04 26 37.80	+49 23 44.5	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78217	04 26 37.84	+49 23 44.1	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78288	04 26 37.87	+49 23 43.8	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78359	04 26 37.90	+49 23 43.5	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78429	04 26 37.93	+49 23 43.1	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78500	04 26 37.97	+49 23 42.8	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78571	04 26 38.00	+49 23 42.5	13.4	N	585
C/2013 US$_{10}$	2016 04 04.78642	04 26 38.04	+49 23 42.2	13.4	N	585

C/2013 US_{10}	2016 04 04.78712	04 26 38.07	+49 23 41.8	13.4	N	585
C/2013 US_{10}	2016 04 04.78783	04 26 38.11	+49 23 41.5	13.4	N	585
C/2013 US_{10}	2016 04 04.78854	04 26 38.14	+49 23 41.2	13.4	N	585
C/2013 US_{10}	2016 04 04.78925	04 26 38.17	+49 23 40.8	13.4	N	585
C/2013 US_{10}	2016 04 04.78995	04 26 38.20	+49 23 40.4	13.4	N	585
C/2013 US_{10}	2016 04 16.74116	04 36 36.33	+48 09 05.3	14.4	T	168
C/2013 US_{10}	2016 04 16.74336	04 36 36.43	+48 09 04.6	14.4	T	168
C/2013 US_{10}	2016 04 16.82126	04 36 40.51	+48 08 41.0	14.3	T	168
C/2013 US_{10}	2016 04 16.82363	04 36 40.62	+48 08 40.3	14.3	T	168
C/2013 US_{10}	2016 04 19.88454	04 39 19.95	+47 54 22.2	14.5	N	K02
C/2013 US_{10}	2016 04 19.89316	04 39 20.39	+47 54 19.9	14.6	N	K02
C/2013 US_{10}	2016 04 19.90057	04 39 20.79	+47 54 17.9	14.5	N	K02
C/2013 US_{10}	2016 04 20.81659	04 40 08.75	+47 50 20.5	15.2	N	C47
C/2013 US_{10}	2016 04 20.81917	04 40 08.94	+47 50 19.9	15.4	N	C47
C/2013 US_{10}	2016 04 20.82175	04 40 09.05	+47 50 18.3	15.7	N	C47
C/2013 US_{10}	2016 04 20.82434	04 40 09.18	+47 50 17.8	15.7	N	C47
C/2013 US_{10}	2016 04 20.82692	04 40 09.35	+47 50 17.7	15.4	N	C47
C/2013 US_{10}	2016 04 20.82950	04 40 09.48	+47 50 16.8	15.6	N	C47
C/2013 US_{10}	2016 04 20.83282	04 40 09.68	+47 50 15.5	15.7	N	C47
C/2013 US_{10}	2016 04 20.83296	04 40 09.68	+47 50 16.0	14.3	N	C23
C/2013 US_{10}	2016 04 20.83651	04 40 09.95	+47 50 15.2	15.7	N	C47
C/2013 US_{10}	2016 04 20.83821	04 40 09.95	+47 50 14.5	14.4	N	C23
C/2013 US_{10}	2016 04 20.84420	04 40 10.26	+47 50 13.0	14.5	N	C23
C/2013 US_{10}	2016 04 21.83614	04 41 02.40	+47 46 04.7	15.4	N	C47
C/2013 US_{10}	2016 04 21.83909	04 41 02.54	+47 46 04.5	14.9	N	C47
C/2013 US_{10}	2016 04 21.84130	04 41 02.72	+47 46 03.5	15.2	N	C47
C/2013 US_{10}	2016 04 25.86339	04 44 35.73	+47 30 53.0	14.1	N	J38
C/2013 US_{10}	2016 04 25.86588	04 44 35.87	+47 30 52.6	14.1	N	J38
C/2013 US_{10}	2016 04 25.86836	04 44 36.02	+47 30 52.2	14.1	N	J38
C/2013 US_{10}	2016 04 25.87541	04 44 36.37	+47 30 50.1	14.1	N	C86
C/2013 US_{10}	2016 04 25.88030	04 44 36.59	+47 30 49.9	14.0	N	C86
C/2013 US_{10}	2016 04 25.88275	04 44 36.72	+47 30 49.0	14.1	N	C86
C/2013 US_{10}	2016 04 26.92509	04 45 32.40	+47 27 15.7	14.5	N	I81
C/2013 US_{10}	2016 04 26.93087	04 45 32.70	+47 27 14.6	14.5	N	I81
C/2013 US_{10}	2016 04 26.93798	04 45 33.09	+47 27 13.2	14.5	N	I81
C/2013 US_{10}	2016 04 27.84567	04 46 21.47	+47 24 16.1	13.7	N	585
C/2013 US_{10}	2016 04 27.84965	04 46 21.69	+47 24 15.0	13.8	N	585
C/2013 US_{10}	2016 04 27.85248	04 46 21.87	+47 24 14.4	13.7	N	585
C/2013 US_{10}	2016 04 27.85390	04 46 21.93	+47 24 14.2	13.7	N	585
C/2013 US_{10}	2016 04 27.85531	04 46 22.03	+47 24 13.9	13.7	N	585
C/2013 US_{10}	2016 04 28.86822	04 47 16.20	+47 21 04.3	14.8	N	C23
C/2013 US_{10}	2016 04 28.87046	04 47 16.32	+47 21 03.7	14.1	N	C23
C/2013 US_{10}	2016 04 28.87271	04 47 16.47	+47 21 02.9	13.6	N	C23
C/2013 US_{10}	2016 04 29.84090	04 48 08.32	+47 18 09.2	14.0	N	585
C/2013 US_{10}	2016 04 29.84161	04 48 08.35	+47 18 08.9	14.0	N	585
C/2013 US_{10}	2016 04 29.84232	04 48 08.40	+47 18 09.0	14.0	N	585
C/2013 US_{10}	2016 04 29.84303	04 48 08.41	+47 18 08.9	14.0	N	585
C/2013 US_{10}	2016 04 29.84374	04 48 08.49	+47 18 08.6	13.9	N	585
C/2013 US_{10}	2016 04 29.84444	04 48 08.50	+47 18 08.3	13.9	N	585
C/2013 US_{10}	2016 04 29.84515	04 48 08.56	+47 18 08.5	14.0	N	585
C/2013 US_{10}	2016 04 29.84657	04 48 08.63	+47 18 08.2	14.0	N	585
C/2013 US_{10}	2016 04 29.84728	04 48 08.67	+47 18 08.1	14.0	N	585
C/2013 US_{10}	2016 04 29.84799	04 48 08.71	+47 18 07.8	14.0	N	585
C/2013 US_{10}	2016 04 29.85011	04 48 08.83	+47 18 07.6	14.0	N	585
C/2013 US_{10}	2016 04 29.85082	04 48 08.84	+47 18 07.5	14.0	N	585
C/2013 US_{10}	2016 04 29.85153	04 48 08.87	+47 18 07.4	14.1	N	585
C/2013 US_{10}	2016 04 29.85223	04 48 08.93	+47 18 07.1	14.0	N	585
C/2013 US_{10}	2016 04 29.85294	04 48 08.97	+47 18 07.2	14.0	N	585
C/2013 US_{10}	2016 04 29.85365	04 48 09.00	+47 18 06.9	14.1	N	585
C/2013 US_{10}	2016 04 29.91209	04 48 12.13	+47 17 56.8	15.2	N	K02
C/2013 US_{10}	2016 04 29.91654	04 48 12.39	+47 17 55.9	15.2	N	K02
C/2013 US_{10}	2016 04 29.92182	04 48 12.64	+47 17 55.3	15.3	N	K02
C/2013 US_{10}	2016 04 30.47380	04 48 42.24	+47 16 20.3			900
C/2013 US_{10}	2016 04 30.47747	04 48 42.43	+47 16 19.8	12.4	T	900
C/2013 US_{10}	2016 04 30.85030	04 49 02.46	+47 15 16.2	15.1	N	C23
C/2013 US_{10}	2016 04 30.85330	04 49 02.66	+47 15 15.5	14.7	N	C23
C/2013 US_{10}	2016 04 30.85629	04 49 02.82	+47 15 15.3	15.0	N	C23
C/2013 US_{10}	2016 04 30.88044	04 49 04.12	+47 15 11.2	14.1	N	I72
C/2013 US_{10}	2016 04 30.89947	04 49 05.13	+47 15 07.1	14.2	N	I72
C/2013 US_{10}	2016 04 30.93836	04 49 07.28	+47 15 01.1	14.1	N	I72
C/2013 US_{10}	2016 05 01.85292	04 49 56.27	+47 12 31.4	14.3	N	C86
C/2013 US_{10}	2016 05 01.85513	04 49 56.47	+47 12 31.7	14.2	N	C86
C/2013 US_{10}	2016 05 01.85958	04 49 56.81	+47 12 30.1	14.2	N	C86
C/2013 US_{10}	2016 05 02.88291	04 50 51.79	+47 09 49.9	14.3	N	I72
C/2013 US_{10}	2016 05 02.91550	04 50 53.57	+47 09 44.7	14.3	N	I72
C/2013 US_{10}	2016 05 02.94766	04 50 55.33	+47 09 39.6	14.3	N	I72
C/2013 US_{10}	2016 05 02.98269	04 50 57.24	+47 09 34.3	14.6	N	I81
C/2013 US_{10}	2016 05 02.98676	04 50 57.55	+47 09 33.8	14.4	N	I81
C/2013 US_{10}	2016 05 02.99054	04 50 57.75	+47 09 33.1	14.5	N	I81
C/2013 US_{10}	2016 05 03.88993	04 51 46.02	+47 07 19.6	14.3	N	I72
C/2013 US_{10}	2016 05 03.92234	04 51 47.82	+47 07 14.8	14.3	N	I72
C/2013 US_{10}	2016 05 03.95285	04 51 49.47	+47 07 10.3	14.4	N	I72
C/2013 US_{10}	2016 05 04.86833	04 52 38.83	+47 05 00.4	14.8	N	C23
C/2013 US_{10}	2016 05 04.87207	04 52 39.02	+47 05 00.0	14.8	N	C23
C/2013 US_{10}	2016 05 04.87657	04 52 39.27	+47 04 59.2	14.7	N	C23
C/2013 US_{10}	2016 05 05.44915	04 53 10.11	+47 03 42.7			K D81
C/2013 US_{10}	2016 05 05.45332	04 53 10.29	+47 03 41.3			K D81
C/2013 US_{10}	2016 05 05.45749	04 53 10.59	+47 03 41.9			K D81
C/2013 US_{10}	2016 05 05.46170	04 53 10.75	+47 03 40.4	13.4	T	K D81
C/2013 US_{10}	2016 05 08.86205	04 56 14.46	+46 56 40.9	14.8	N	C23
C/2013 US_{10}	2016 05 08.86655	04 56 14.71	+46 56 40.0	15.2	N	C23
C/2013 US_{10}	2016 05 08.87179	04 56 15.00	+46 56 39.4	14.5	N	C23
C/2013 US_{10}	2016 05 12.47934	04 59 29.69	+46 50 36.3			K 367
C/2013 US_{10}	2016 05 12.48096	04 59 29.80	+46 50 36.0			K 367
C/2013 US_{10}	2016 05 12.48218	04 59 29.85	+46 50 35.9	12.5	T	K 367

C/2013 V2 (Borisov)

C/2013 V2	2015 03 30.51359	13 10 49.25	+34 20 55.0	15.5	T	349
C/2013 V2	2015 03 30.53460	13 10 48.24	+34 20 50.4			349
C/2013 V2	2016 04 11.51533	15 05 21.43	−12 26 23.3			1 Q62
C/2013 V2	2016 04 11.51796	15 05 21.35	−12 26 23.7			1 Q62
C/2013 V2	2016 04 11.52060	15 05 21.27	−12 26 24.3	18.1	T	1 Q62
C/2013 V2	2016 05 01.03554	14 54 51.40	−12 43 18.7	18.5	N	J22
C/2013 V2	2016 05 01.03811	14 54 51.27	−12 43 19.0	18.5	N	J22
C/2013 V2	2016 05 01.04066	14 54 51.17	−12 43 18.9	18.5	N	J22
C/2013 V2	2016 05 03.36648	14 53 32.79	−12 45 17.7	17.8	T	703

C/2013 V2	2016 05 03.37387	14 53 32.50	−12 45 19.7	17.6	T		703
C/2013 V2	2016 05 03.38127	14 53 32.29	−12 45 18.6	17.9	T		703
C/2013 V2	2016 05 03.38867	14 53 31.90	−12 45 19.9				703
C/2013 V2	2016 05 05.93741	14 52 06.66	−12 47 30.2	20.1	N	K	J04
C/2013 V2	2016 05 05.94125	14 52 06.48	−12 47 30.1	20.1	N	K	J04
C/2013 V2	2016 05 07.26590	14 51 22.24	−12 48 38.4	18.6	T		G45
C/2013 V2	2016 05 07.26681	14 51 22.29	−12 48 37.6	18.5	T		G45
C/2013 V2	2016 05 07.27930	14 51 21.85	−12 48 39.3	18.2	T		G45
C/2013 V2	2016 05 07.28395	14 51 21.68	−12 48 38.9	18.5	T		G45
C/2013 V2	2016 05 07.28823	14 51 21.54	−12 48 38.5	18.1	T		G45
C/2013 V2	2016 05 13.26831	14 48 04.93	−12 54 01.0	19.0	T		G45
C/2013 V2	2016 05 13.27249	14 48 04.76	−12 54 01.0	19.0	T		G45
C/2013 V2	2016 05 13.27828	14 48 04.56	−12 53 59.6	18.9	T		G45
C/2013 V2	2016 05 13.28266	14 48 04.40	−12 54 01.4	18.6	T		G45

C/2013 V4 (Catalina)

C/2013 V4	2015 02 11.49057	02 55 27.35	+29 46 20.9	16.1	T		349
C/2013 V4	2015 02 11.50453	02 55 27.38	+29 46 24.0				349
C/2013 V4	2015 03 30.43528	03 12 16.42	+33 39 56.9	16.3	T		349
C/2013 V4	2015 03 30.44479	03 12 16.77	+33 40 00.0				349
C/2013 V4	2016 03 10.79302	03 02 52.81	+72 11 34.4	15.2	T	K	585
C/2013 V4	2016 03 10.79372	03 02 53.05	+72 11 35.0	16.2	N	K	585
C/2013 V4	2016 03 10.79443	03 02 53.11	+72 11 34.9	16.0	N	K	585
C/2013 V4	2016 03 10.79550	03 02 53.05	+72 11 34.5	16.1	N	K	585
C/2013 V4	2016 03 10.79621	03 02 53.12	+72 11 34.7	16.2	N	K	585
C/2013 V4	2016 03 10.79798	03 02 53.10	+72 11 34.7	16.2	N	K	585
C/2013 V4	2016 03 10.79869	03 02 53.21	+72 11 35.1	16.2	N	K	585
C/2013 V4	2016 03 10.79940	03 02 53.29	+72 11 35.3	16.2	N	K	585
C/2013 V4	2016 03 10.80010	03 02 53.41	+72 11 35.4	16.2	N	K	585
C/2013 V4	2016 03 10.80081	03 02 53.47	+72 11 35.0	16.2	N	K	585
C/2013 V4	2016 03 10.80152	03 02 53.51	+72 11 35.3	16.1	N	K	585
C/2013 V4	2016 03 10.80223	03 02 53.50	+72 11 34.9	16.2	N	K	585
C/2013 V4	2016 03 10.80294	03 02 53.53	+72 11 35.0	16.3	N	K	585
C/2013 V4	2016 03 10.80450	03 02 53.63	+72 11 34.9	16.2	N	K	585
C/2013 V4	2016 03 10.80607	03 02 53.78	+72 11 34.7	16.1	N	K	585
C/2013 V4	2016 03 10.80763	03 02 53.87	+72 11 34.7	16.1	N	K	585
C/2013 V4	2016 03 10.80920	03 02 54.04	+72 11 34.6	16.2	N	K	585
C/2013 V4	2016 03 10.81076	03 02 54.26	+72 11 35.0	16.1	N	K	585
C/2013 V4	2016 03 27.91847	03 27 02.61	+72 21 42.3	15.4	T		585
C/2013 V4	2016 03 27.91919	03 27 03.01	+72 21 41.9	16.2	N		585
C/2013 V4	2016 03 27.91989	03 27 02.84	+72 21 41.4	16.1	N		585
C/2013 V4	2016 03 27.92060	03 27 02.89	+72 21 41.5	15.9	N		585
C/2013 V4	2016 03 27.92131	03 27 02.92	+72 21 42.5	16.2	N		585
C/2013 V4	2016 03 27.92202	03 27 03.12	+72 21 41.4	16.2	N		585
C/2013 V4	2016 03 27.92273	03 27 03.13	+72 21 41.7	16.0	N		585
C/2013 V4	2016 03 27.92344	03 27 03.27	+72 21 42.4	16.3	N		585
C/2013 V4	2016 03 27.92415	03 27 03.28	+72 21 42.3	16.2	N		585
C/2013 V4	2016 03 27.92486	03 27 03.36	+72 21 41.5	16.0	N		585
C/2013 V4	2016 03 27.92556	03 27 03.32	+72 21 41.6	16.0	N		585
C/2013 V4	2016 03 27.92627	03 27 03.37	+72 21 42.1	15.9	N		585
C/2013 V4	2016 03 27.92698	03 27 03.77	+72 21 42.6	16.1	N		585
C/2013 V4	2016 03 27.92769	03 27 03.62	+72 21 41.9	16.3	N		585
C/2013 V4	2016 03 27.92840	03 27 03.76	+72 21 42.9	16.2	N		585
C/2013 V4	2016 03 27.92911	03 27 03.79	+72 21 42.1	16.2	N		585
C/2013 V4	2016 03 27.92982	03 27 03.94	+72 21 42.5	16.1	N		585
C/2013 V4	2016 03 27.93052	03 27 03.94	+72 21 42.2	15.9	N		585
C/2013 V4	2016 04 19.95170	04 11 37.38	+73 03 50.0	17.2	N	K	K02
C/2013 V4	2016 04 19.95761	04 11 38.07	+73 03 51.2	16.2	N	K	K02
C/2013 V4	2016 04 20.85857	04 13 39.32	+73 05 56.6	16.6	N	K	C23
C/2013 V4	2016 04 20.86307	04 13 39.66	+73 05 56.6	17.0	N	K	C23
C/2013 V4	2016 04 20.86347	04 13 39.74	+73 05 56.5	16.9	N	K	C47
C/2013 V4	2016 04 20.86607	04 13 40.21	+73 05 56.9	16.7	N	K	C23
C/2013 V4	2016 04 20.86901	04 13 40.35	+73 05 56.6	17.9	N	K	C47
C/2013 V4	2016 04 20.87473	04 13 41.18	+73 05 58.6	17.3	N	K	C47
C/2013 V4	2016 04 26.96043	04 27 51.96	+73 20 28.5	16.7	N		I81
C/2013 V4	2016 04 26.96611	04 27 52.76	+73 20 29.0	17.1	N		I81
C/2013 V4	2016 04 26.97180	04 27 53.62	+73 20 30.2	16.7	N		I81
C/2013 V4	2016 04 27.88412	04 30 05.80	+73 22 42.9	16.2	N		585
C/2013 V4	2016 04 27.88482	04 30 05.95	+73 22 43.3	16.2	N		585
C/2013 V4	2016 04 27.88637	04 30 06.11	+73 22 43.4	16.0	N		585
C/2013 V4	2016 04 27.88708	04 30 06.23	+73 22 43.5	15.8	N		585
C/2013 V4	2016 04 27.88778	04 30 06.31	+73 22 43.6	16.0	N		585
C/2013 V4	2016 04 27.88849	04 30 06.46	+73 22 43.8	15.7	N		585
C/2013 V4	2016 04 27.88920	04 30 06.65	+73 22 43.9	15.8	N		585
C/2013 V4	2016 04 27.88991	04 30 06.71	+73 22 44.3	15.8	N		585
C/2013 V4	2016 04 27.89061	04 30 06.86	+73 22 44.1	15.8	N		585
C/2013 V4	2016 04 27.89132	04 30 06.79	+73 22 44.2	15.7	N		585
C/2013 V4	2016 04 27.89203	04 30 06.99	+73 22 44.1	15.7	N		585
C/2013 V4	2016 04 27.89274	04 30 07.10	+73 22 44.2	15.7	N		585
C/2013 V4	2016 04 27.89344	04 30 07.24	+73 22 44.1	15.6	N		585
C/2013 V4	2016 04 27.89415	04 30 07.32	+73 22 44.5	15.7	N		585
C/2013 V4	2016 04 27.89486	04 30 07.44	+73 22 44.6	15.8	N		585
C/2013 V4	2016 04 27.89557	04 30 07.56	+73 22 44.7	15.7	N		585
C/2013 V4	2016 04 27.89627	04 30 07.60	+73 22 44.9	15.7	N		585
C/2013 V4	2016 04 27.89840	04 30 07.86	+73 22 46.0	16.0	N		585
C/2013 V4	2016 04 28.06255	04 30 32.24	+73 23 09.4	16.6	N		I81
C/2013 V4	2016 04 28.06824	04 30 33.08	+73 23 10.3	16.7	N		I81
C/2013 V4	2016 04 28.07392	04 30 33.96	+73 23 11.4	16.7	N		I81
C/2013 V4	2016 04 28.87778	04 32 31.56	+73 25 09.7	17.0	N		C23
C/2013 V4	2016 04 28.88211	04 32 32.32	+73 25 10.2	16.3	N		C23
C/2013 V4	2016 04 28.88645	04 32 32.87	+73 25 10.8	17.2	N		C23
C/2013 V4	2016 04 29.97626	04 35 14.48	+73 27 51.2	16.6	N		I81
C/2013 V4	2016 04 29.98361	04 35 15.71	+73 27 52.4	16.5	N		I81
C/2013 V4	2016 04 29.99072	04 35 16.75	+73 27 53.2	16.8	N		I81
C/2013 V4	2016 04 30.88569	04 37 30.76	+73 30 06.3	16.5	N		I72
C/2013 V4	2016 04 30.92365	04 37 35.81	+73 30 11.5	16.4	N		I72
C/2013 V4	2016 04 30.96206	04 37 41.79	+73 30 15.1	16.5	N		I72
C/2013 V4	2016 05 02.88662	04 42 34.70	+73 35 01.7	16.7	N		I72
C/2013 V4	2016 05 02.90466	04 42 37.43	+73 35 04.1	16.7	N	K	K61
C/2013 V4	2016 05 02.90526	04 42 37.63	+73 35 04.5	16.9	N	K	K61
C/2013 V4	2016 05 02.90587	04 42 37.52	+73 35 03.8	17.4	N	K	K61
C/2013 V4	2016 05 02.91922	04 42 39.65	+73 35 06.5	16.7	N		I72
C/2013 V4	2016 05 02.95140	04 42 44.74	+73 35 10.9	16.5	N		I72
C/2013 V4	2016 05 03.89365	04 45 10.24	+73 37 30.6	16.6	N		I72
C/2013 V4	2016 05 03.92601	04 45 15.10	+73 37 35.3	16.6	N		I72
C/2013 V4	2016 05 03.95641	04 45 20.06	+73 37 39.8	16.6	N		I72

C/2013 V4	2016 05 06.87574	04 52 59.85	+73 44 50.8	17.1	N	K	C23
C/2013 V4	2016 05 06.87863	04 53 00.33	+73 44 52.4	16.8	N	K	C23
C/2013 V4	2016 05 06.88152	04 53 00.58	+73 44 53.3	16.6	N	K	C23
C/2013 V4	2016 05 12.46538	05 08 16.22	+73 58 23.3				900
C/2013 V4	2016 05 12.47252	05 08 17.55	+73 58 24.2	16.0	T		900

C/2013 W2 (PANSTARRS)

C/2013 W2	2016 04 07.59498	11 49 02.76	+01 27 00.2			1	Q62
C/2013 W2	2016 04 07.59711	11 49 02.71	+01 27 00.6			1	Q62
C/2013 W2	2016 04 07.59923	11 49 02.68	+01 27 01.1	20.5	T	1	Q62
C/2013 W2	2016 04 29.95091	11 43 20.22	+02 16 35.4	19.4	T	K	215
C/2013 W2	2016 05 05.95372	11 42 36.87	+02 24 15.3	19.8	T	K	215
C/2013 W2	2016 05 05.95565	11 42 36.85	+02 24 15.4	19.6	T	K	215
C/2013 W2	2016 05 05.95758	11 42 36.81	+02 24 15.5	19.5	T	K	215

C/2013 X1 (PANSTARRS)

C/2013 X1	2015 03 29.139672	04 44 48.571	+33 51 42.65	16.8	T		I41
C/2013 X1	2015 03 29.154186	04 44 48.542	+33 51 41.00	16.9	T		I41
C/2013 X1	2015 03 30.152624	04 44 48.000	+33 50 05.94	16.9	T		I41
C/2013 X1	2015 03 30.167300	04 44 47.988	+33 50 04.50	16.9	T		I41
C/2013 X1	2015 03 31.140204	04 44 48.315	+33 48 34.33	17.0	T		I41
C/2013 X1	2015 03 31.154026	04 44 48.286	+33 48 33.30	16.9	T		I41
C/2013 X1	2015 04 01.143130	04 44 49.437	+33 47 04.30	16.9	T		I41
C/2013 X1	2015 04 01.164541	04 44 49.436	+33 47 02.23	16.9	T		I41
C/2013 X1	2015 09 30.430576	05 32 47.005	+40 51 00.55	15.0	T		I41
C/2013 X1	2015 10 12.501683	05 15 01.671	+42 43 14.72	14.7	T		I41
C/2013 X1	2015 10 13.498698	05 13 02.836	+42 52 50.56	14.7	T		I41
C/2013 X1	2016 04 17.79602	23 32 19.01	+00 41 03.7			K	D81
C/2013 X1	2016 04 17.79845	23 32 18.91	+00 41 03.0	9.6	T	K	D81
C/2013 X1	2016 04 18.79684	23 32 05.90	+00 30 39.4			K	D81
C/2013 X1	2016 04 18.79866	23 32 05.89	+00 30 40.1	8.8	T	K	D81
C/2013 X1	2016 04 19.80881	23 31 51.75	+00 20 01.0			1	Q62
C/2013 X1	2016 04 19.80906	23 31 51.73	+00 20 01.2			1	Q62
C/2013 X1	2016 04 19.80932	23 31 51.70	+00 20 00.8	8.7	T	1	Q62
C/2013 X1	2016 05 03.458157	23 26 46.104	−02 38 11.38	12.4	T		711
C/2013 X1	2016 05 04.443057	23 26 13.155	−02 54 13.51	12.5	T		711
C/2013 X1	2016 05 05.448125	23 25 37.461	−03 11 09.51	12.4	T		711
C/2013 X1	2016 05 07.77825	23 24 06.17	−03 52 52.2				D81
C/2013 X1	2016 05 07.77873	23 24 06.08	−03 52 51.3				D81
C/2013 X1	2016 05 07.77914	23 24 06.03	−03 52 53.9				D81
C/2013 X1	2016 05 07.77955	23 24 05.98	−03 52 55.4	8.0	T		D81
C/2013 X1	2016 05 08.75083	23 23 24.30	−04 11 22.6	8.5	T		D95
C/2013 X1	2016 05 08.75303	23 23 24.16	−04 11 25.2				D95
C/2013 X1	2016 05 08.75887	23 23 23.91	−04 11 32.1				D95
C/2013 X1	2016 05 11.118777	23 21 31.51	−04 59 17.8			r	K92
C/2013 X1	2016 05 11.119404	23 21 31.48	−04 59 18.6	13.7	T		K92
C/2013 X1	2016 05 11.120039	23 21 31.44	−04 59 19.4	13.7	T		K92
C/2013 X1	2016 05 11.121371	23 21 31.37	−04 59 21.4			r	K92
C/2013 X1	2016 05 11.132451	23 21 30.80	−04 59 35.4	13.7	T		K92
C/2013 X1	2016 05 11.132996	23 21 30.76	−04 59 36.1	13.7	T		K92
C/2013 X1	2016 05 11.133571	23 21 30.74	−04 59 36.8	13.7	T		K92
C/2013 X1	2016 05 11.134735	23 21 30.67	−04 59 38.2	13.7	T		K92
C/2013 X1	2016 05 11.135635	23 21 30.63	−04 59 39.3			r	K92
C/2013 X1	2016 05 11.77656	23 20 57.24	−05 13 34.6				367
C/2013 X1	2016 05 11.77899	23 20 57.12	−05 13 37.8				367
C/2013 X1	2016 05 11.78142	23 20 56.99	−05 13 41.2	8.3	T		367
C/2013 X1	2016 05 12.74785	23 20 04.16	−05 35 12.3				D95
C/2013 X1	2016 05 12.75005	23 20 04.05	−05 35 15.2				D95
C/2013 X1	2016 05 12.75297	23 20 03.90	−05 35 19.3	8.0	T		D95
C/2013 X1	2016 05 12.76649	23 20 03.08	−05 35 37.1	7.9	T		372
C/2013 X1	2016 05 12.77017	23 20 02.88	−05 35 42.7				372
C/2013 X1	2016 05 12.77395	23 20 02.66	−05 35 47.6				372
C/2013 X1	2016 05 14.75183	23 18 04.31	−06 22 39.6	8.1	T		D95
C/2013 X1	2016 05 14.75766	23 18 03.95	−06 22 48.5				D95
C/2013 X1	2016 05 14.76204	23 18 03.67	−06 22 54.9				D95
C/2013 X1	2016 05 15.437922	23 17 19.853	−06 39 51.22	11.7	T		V02
C/2013 X1	2016 05 15.444890	23 17 19.397	−06 40 02.13	11.7	T		V02
C/2013 X1	2016 05 15.451858	23 17 18.899	−06 40 12.42	11.8	T		V02
C/2013 X1	2016 05 15.458825	23 17 18.443	−06 40 23.28	11.7	T		V02
C/2013 X1	2016 05 16.20407	23 16 27.92	−06 59 39.6	12.4	N	9	G40
C/2013 X1	2016 05 16.21119	23 16 27.42	−06 59 50.9	12.5	N	9	G40
C/2013 X1	2016 05 17.104768	23 15 23.67	−07 23 42.6	13.8	T		K92
C/2013 X1	2016 05 17.105253	23 15 23.63	−07 23 43.4	13.8	T		K92
C/2013 X1	2016 05 17.105739	23 15 23.61	−07 23 43.8	13.8	T		K92
C/2013 X1	2016 05 17.106224	23 15 23.55	−07 23 45.1	13.7	T		K92
C/2013 X1	2016 05 17.107257	23 15 23.48	−07 23 46.7	13.6	T		K92
C/2013 X1	2016 05 17.108553	23 15 23.38	−07 23 49.0	13.6	T		K92
C/2013 X1	2016 05 17.109876	23 15 23.30	−07 23 50.9	13.6	T		K92
C/2013 X1	2016 05 17.77622	23 14 33.35	−07 42 29.0	7.5	T		372
C/2013 X1	2016 05 17.78194	23 14 32.91	−07 42 38.9				372

C/2014 A4 (SONEAR)

C/2014 A4	2015 02 14.45840	02 50 49.12	−12 49 50.8	16.1	T		349
C/2014 A4	2015 02 14.47213	02 50 48.85	−12 49 41.3				349
C/2014 A4	2016 01 01.21999	00 06 57.05	+15 30 30.7			5	U69
C/2014 A4	2016 01 01.22464	00 06 56.92	+15 30 31.3	17.2	T	5	U69

C/2014 B1 (Schwartz)

C/2014 B1	2016 04 21.39046	07 59 42.65	+03 21 32.4	17.3	N	K	Q68
C/2014 B1	2016 04 21.42951	07 59 43.10	+03 21 37.1	17.3	N	K	Q68
C/2014 B1	2016 04 27.24768	08 00 54.46	+03 33 37.3	17.0	T		T05
C/2014 B1	2016 04 27.25941	08 00 54.61	+03 33 39.0	17.1	T		T05
C/2014 B1	2016 04 27.27401	08 00 54.80	+03 33 39.8	17.0	T		T05
C/2014 B1	2016 04 27.28939	08 00 54.99	+03 33 43.1	16.9	T		T05
C/2014 B1	2016 04 30.50343	08 01 39.63	+03 39 55.7				900
C/2014 B1	2016 04 30.51057	08 01 39.74	+03 39 56.3	16.2	T		900
C/2014 B1	2016 05 01.24228	08 01 50.34	+03 41 19.0	17.6	T		T05
C/2014 B1	2016 05 01.25174	08 01 50.54	+03 41 20.0	17.7	T		T05
C/2014 B1	2016 05 01.26435	08 01 50.71	+03 41 21.3	17.7	T		T05
C/2014 B1	2016 05 01.28025	08 01 50.93	+03 41 23.0	17.7	T		T05
C/2014 B1	2016 05 04.34784	08 02 37.65	+03 46 58.2	17.3	N		Q68
C/2014 B1	2016 05 04.38840	08 02 38.29	+03 47 01.5	17.4	N		Q68
C/2014 B1	2016 05 05.34290	08 02 53.46	+03 48 42.1	17.5	N	K	Q68
C/2014 B1	2016 05 05.38463	08 02 54.09	+03 48 46.6	17.4	N		Q68
C/2014 B1	2016 05 05.42996	08 02 54.85	+03 48 51.3	17.3	N		Q68
C/2014 B1	2016 05 13.34145	08 05 12.30	+04 01 33.6	17.4	N		Q68
C/2014 B1	2016 05 13.38316	08 05 13.12	+04 01 36.9	17.3	N		Q68

C/2014 M1 (PANSTARRS)

C/2014 M1	2016 05 06.96039	15 24 28.52	−17 29 07.7	19.6	T	K 215
C/2014 M1	2016 05 06.96232	15 24 28.37	−17 29 07.0	19.5	T	K 215
C/2014 M1	2016 05 06.96425	15 24 28.25	−17 29 06.1	19.3	T	K 215
C/2014 M1	2016 05 09.34269	15 21 35.80	−17 12 36.6	19.7	T	691
C/2014 M1	2016 05 09.36120	15 21 34.40	−17 12 29.6	19.5	T	691
C/2014 M1	2016 05 09.37971	15 21 33.05	−17 12 20.6	19.8	T	691
C/2014 M1	2016 05 10.28936	15 20 27.23	−17 06 00.4	19.8	T	G45
C/2014 M1	2016 05 10.29145	15 20 27.17	−17 05 59.0	19.5	T	G45
C/2014 M1	2016 05 10.29431	15 20 26.99	−17 05 58.3	19.4	T	G45
C/2014 M1	2016 05 10.29573	15 20 26.81	−17 05 57.0	19.4	T	G45
C/2014 M1	2016 05 10.30038	15 20 26.49	−17 05 55.6	19.9	T	G45
C/2014 M1	2016 05 10.30331	15 20 26.33	−17 05 54.2	19.5	T	G45
C/2014 M1	2016 05 10.30472	15 20 26.21	−17 05 53.8	19.3	T	G45
C/2014 M1	2016 05 10.31008	15 20 25.77	−17 05 51.2	19.7	T	G45
C/2014 M1	2016 05 13.29064	15 16 50.73	−16 44 57.3	19.8	T	G45
C/2014 M1	2016 05 13.29482	15 16 50.35	−16 44 55.2	19.6	T	G45
C/2014 M1	2016 05 13.30078	15 16 49.92	−16 44 52.9	19.5	T	G45
C/2014 M1	2016 05 13.30526	15 16 49.63	−16 44 50.6	19.8	T	G45

C/2014 N3 (NEOWISE)

C/2014 N3	2015 02 11.42228	00 29 48.74	−06 27 17.4	15.4	T	349
C/2014 N3	2015 02 11.42978	00 29 49.04	−06 27 11.1			349

C/2014 OE$_4$ (PANSTARRS)

C/2014 OE$_4$	2016 04 26.47760	17 24 32.428	+27 36 12.33	18.5	T	F51
C/2014 OE$_4$	2016 04 26.48957	17 24 32.175	+27 36 20.18	18.5	T	F51
C/2014 OE$_4$	2016 04 26.50155	17 24 31.924	+27 36 28.10	18.6	T	F51
C/2014 OE$_4$	2016 04 26.51356	17 24 31.666	+27 36 35.97	18.6	T	F51
C/2014 OE$_4$	2016 04 28.78778	17 23 43.08	+28 01 15.2	17.1	T	D29
C/2014 OE$_4$	2016 04 28.80899	17 23 42.62	+28 01 29.3	17.4	T	D29
C/2014 OE$_4$	2016 04 28.83020	17 23 42.12	+28 01 42.3	17.3	T	D29
C/2014 OE$_4$	2016 04 29.91925	17 23 17.76	+28 13 24.4	17.2	N	C36
C/2014 OE$_4$	2016 04 29.92046	17 23 17.77	+28 13 24.8	17.4	N	C36
C/2014 OE$_4$	2016 04 29.92292	17 23 17.68	+28 13 26.8	17.4	N	C36
C/2014 OE$_4$	2016 04 29.92537	17 23 17.66	+28 13 29.0	17.2	N	C36
C/2014 OE$_4$	2016 04 30.05170	17 23 14.69	+28 14 49.4	16.9	N	585
C/2014 OE$_4$	2016 04 30.05242	17 23 14.65	+28 14 50.0	17.0	N	585
C/2014 OE$_4$	2016 04 30.05312	17 23 14.65	+28 14 50.5	16.9	N	585
C/2014 OE$_4$	2016 04 30.05383	17 23 14.64	+28 14 50.8	16.7	N	585
C/2014 OE$_4$	2016 04 30.05454	17 23 14.60	+28 14 51.3	17.0	N	585
C/2014 OE$_4$	2016 04 30.05525	17 23 14.61	+28 14 51.7	17.0	N	585
C/2014 OE$_4$	2016 04 30.05595	17 23 14.58	+28 14 52.2	16.8	N	585
C/2014 OE$_4$	2016 04 30.05666	17 23 14.58	+28 14 53.1	16.9	N	585
C/2014 OE$_4$	2016 04 30.05737	17 23 14.55	+28 14 53.2	17.0	N	585
C/2014 OE$_4$	2016 04 30.05808	17 23 14.54	+28 14 53.6	16.8	N	585
C/2014 OE$_4$	2016 04 30.05878	17 23 14.54	+28 14 54.9	16.9	N	585
C/2014 OE$_4$	2016 04 30.05949	17 23 14.53	+28 14 54.6	17.1	N	585
C/2014 OE$_4$	2016 04 30.06020	17 23 14.49	+28 14 55.1	16.8	N	585
C/2014 OE$_4$	2016 04 30.06091	17 23 14.47	+28 14 55.8	16.9	N	585
C/2014 OE$_4$	2016 04 30.06162	17 23 14.47	+28 14 56.0	16.9	N	585
C/2014 OE$_4$	2016 04 30.06233	17 23 14.46	+28 14 56.6	17.0	N	585
C/2014 OE$_4$	2016 04 30.06303	17 23 14.41	+28 14 57.1	17.0	N	585
C/2014 OE$_4$	2016 04 30.06374	17 23 14.41	+28 14 57.2	17.0	N	585
C/2014 OE$_4$	2016 04 30.06445	17 23 14.41	+28 14 57.8	16.9	N	585
C/2014 OE$_4$	2016 04 30.06516	17 23 14.38	+28 14 58.3	17.0	N	585
C/2014 OE$_4$	2016 04 30.89699	17 22 55.17	+28 23 49.9	17.3	N	C36
C/2014 OE$_4$	2016 04 30.90310	17 22 54.96	+28 23 54.9	17.1	N	C36
C/2014 OE$_4$	2016 04 30.90921	17 22 54.86	+28 23 58.2	17.3	N	C36
C/2014 OE$_4$	2016 04 30.91166	17 22 54.80	+28 23 59.2	17.3	N	C36
C/2014 OE$_4$	2016 04 30.91410	17 22 54.74	+28 24 01.4	17.1	N	C36
C/2014 OE$_4$	2016 04 30.91899	17 22 54.66	+28 24 04.6	17.2	N	C36
C/2014 OE$_4$	2016 05 01.09413	17 22 50.47	+28 25 55.5	17.0	N	B54
C/2014 OE$_4$	2016 05 01.09488	17 22 50.45	+28 25 56.0	17.0	N	B54
C/2014 OE$_4$	2016 05 03.99720	17 21 39.52	+28 56 22.1	16.8	N	C23
C/2014 OE$_4$	2016 05 04.00153	17 21 39.33	+28 56 25.7	17.2	N	C23
C/2014 OE$_4$	2016 05 04.00731	17 21 39.19	+28 56 29.7	17.8	N	C23
C/2014 OE$_4$	2016 05 04.94528	17 21 15.10	+29 06 10.8	17.0	N	C23
C/2014 OE$_4$	2016 05 04.95105	17 21 14.95	+29 06 14.4	16.9	N	C23
C/2014 OE$_4$	2016 05 04.95827	17 21 14.76	+29 06 19.0	17.0	N	C23
C/2014 OE$_4$	2016 05 05.48776	17 21 00.82	+29 11 45.9	17.6	T	T05
C/2014 OE$_4$	2016 05 05.50379	17 21 00.46	+29 11 55.9	17.4	T	T05
C/2014 OE$_4$	2016 05 05.51349	17 21 00.18	+29 12 01.2	17.6	T	T05
C/2014 OE$_4$	2016 05 05.52249	17 20 59.94	+29 12 07.1	17.5	T	T05
C/2014 OE$_4$	2016 05 05.66428	17 20 56.29	+29 13 33.8	17.6	N	K Q21
C/2014 OE$_4$	2016 05 05.67302	17 20 55.98	+29 13 39.3	17.6	N	K Q21
C/2014 OE$_4$	2016 05 05.86375	17 20 51.01	+29 15 36.4	17.1	N	C36
C/2014 OE$_4$	2016 05 05.87431	17 20 50.76	+29 15 42.0	17.1	N	C36
C/2014 OE$_4$	2016 05 05.87519	17 20 50.73	+29 15 43.2	17.1	N	C36
C/2014 OE$_4$	2016 05 05.87605	17 20 50.69	+29 15 44.3	17.1	N	C36
C/2014 OE$_4$	2016 05 05.87693	17 20 50.66	+29 15 44.7	17.3	N	C36
C/2014 OE$_4$	2016 05 05.87781	17 20 50.62	+29 15 44.8	17.2	N	C36
C/2014 OE$_4$	2016 05 05.87869	17 20 50.60	+29 15 45.9	17.5	N	C36
C/2014 OE$_4$	2016 05 05.87957	17 20 50.60	+29 15 46.7	17.5	N	C36
C/2014 OE$_4$	2016 05 05.88045	17 20 50.56	+29 15 46.6	17.3	N	C36
C/2014 OE$_4$	2016 05 05.88221	17 20 50.50	+29 15 47.3	17.1	N	C36
C/2014 OE$_4$	2016 05 06.00514	17 20 47.08	+29 17 00.4	16.8	N	C23
C/2014 OE$_4$	2016 05 06.00802	17 20 47.14	+29 17 04.3	16.7	N	C23
C/2014 OE$_4$	2016 05 06.01525	17 20 46.90	+29 17 08.5	16.9	N	C23
C/2014 OE$_4$	2016 05 06.19522	17 20 42.13	+29 19 00.1	17.5	N	9 G40
C/2014 OE$_4$	2016 05 06.21022	17 20 41.72	+29 19 09.0	17.6	N	9 G40
C/2014 OE$_4$	2016 05 07.96837	17 19 53.87	+29 36 53.0	17.3	N	A71
C/2014 OE$_4$	2016 05 07.97721	17 19 53.60	+29 36 58.1	17.2	N	A71
C/2014 OE$_4$	2016 05 07.98825	17 19 53.29	+29 37 04.7	17.1	N	A71
C/2014 OE$_4$	2016 05 09.00943	17 19 24.59	+29 47 14.7	16.9	N	C23
C/2014 OE$_4$	2016 05 09.01231	17 19 24.56	+29 47 16.4	17.0	N	C23
C/2014 OE$_4$	2016 05 09.01809	17 19 24.40	+29 47 20.0	17.0	N	C23
C/2014 OE$_4$	2016 05 11.03373	17 18 26.10	+30 07 05.9	16.8	N	I81
C/2014 OE$_4$	2016 05 11.03514	17 18 26.08	+30 07 06.0	16.5	N	I81
C/2014 OE$_4$	2016 05 11.29545	17 18 18.42	+30 09 38.1	17.1	T	G45
C/2014 OE$_4$	2016 05 11.30071	17 18 18.26	+30 09 41.0	17.1	T	G45
C/2014 OE$_4$	2016 05 11.30583	17 18 18.11	+30 09 44.0	17.0	T	G45
C/2014 OE$_4$	2016 05 11.31115	17 18 17.96	+30 09 47.2	17.2	T	G45
C/2014 OE$_4$	2016 05 11.31705	17 18 17.77	+30 09 50.6	17.0	T	G45
C/2014 OE$_4$	2016 05 12.73909	17 17 35.08	+30 23 28.7	17.4	N	900
C/2014 OE$_4$	2016 05 12.74623	17 17 34.85	+30 23 32.9	17.4	N	900
C/2014 OE$_4$	2016 05 13.09031	17 17 24.37	+30 26 47.9	16.8	N	C23

C/2014 OE_4	2016 05 13.09555	17 17 24.25	+30 26 51.6	16.6	N	C23
C/2014 OE_4	2016 05 13.44953	17 17 13.28	+30 30 10.2	16.6	T	703
C/2014 OE_4	2016 05 13.45556	17 17 13.07	+30 30 13.2	16.8	T	703
C/2014 OE_4	2016 05 13.46158	17 17 12.89	+30 30 17.0	16.8	T	703
C/2014 OE_4	2016 05 13.46769	17 17 12.69	+30 30 20.7	16.8	T	703
C/2014 OE_4	2016 05 14.35956	17 16 45.22	+30 38 43.6	17.6	N	H47
C/2014 OE_4	2016 05 14.36777	17 16 44.97	+30 38 48.2	17.0	N	H47
C/2014 OE_4	2016 05 16.95221	17 15 22.88	+31 02 30.8	16.7	N	K K02
C/2014 OE_4	2016 05 16.95836	17 15 22.70	+31 02 34.2	17.1	N	K K02
C/2014 OE_4	2016 05 17.96087	17 14 50.08	+31 11 33.2	17.4	T	Z22
C/2014 OE_4	2016 05 17.96817	17 14 49.81	+31 11 37.1	17.2	T	Z22
C/2014 OE_4	2016 05 17.97670	17 14 49.54	+31 11 40.7	17.2	T	Z22
C/2014 OE_4	2016 05 18.58485	17 14 29.43	+31 17 04.5			900
C/2014 OE_4	2016 05 18.59199	17 14 29.19	+31 17 08.1	16.8	T	900
C/2014 OE_4	2016 05 19.44282	17 14 00.895	+31 24 36.44	17.8	T	F51
C/2014 OE_4	2016 05 19.45501	17 14 00.476	+31 24 42.74	17.8	T	F51

C/2014 Q2 (Lovejoy)

C/2014 Q2	2015 02 14.50668	01 48 13.66	+48 25 10.0	5.9	T	349
C/2014 Q2	2015 02 14.50900	01 48 13.42	+48 25 14.4			349
C/2014 Q2	2015 02 21.41791	01 38 52.10	+51 42 54.5	6.2	T	349
C/2014 Q2	2015 02 21.42131	01 38 51.86	+51 42 59.7			349
C/2014 Q2	2016 04 15.67953	18 28 39.95	+25 20 27.1	15.4	T	349
C/2014 Q2	2016 04 15.69287	18 28 39.65	+25 20 29.9			349
C/2014 Q2	2016 04 27.53427	18 23 56.929	+26 07 29.13	19.3	T	F51
C/2014 Q2	2016 04 27.54542	18 23 56.599	+26 07 31.49	19.3	T	F51
C/2014 Q2	2016 04 27.55653	18 23 56.275	+26 07 33.76	19.3	T	F51
C/2014 Q2	2016 04 27.56774	18 23 55.950	+26 07 36.25	19.5	T	F51
C/2014 Q2	2016 05 07.65451	18 18 28.26	+26 38 03.1			K D81
C/2014 Q2	2016 05 07.67088	18 18 27.64	+26 38 05.4	16.0	T	K D81
C/2014 Q2	2016 05 16.48529	18 12 45.34	+26 55 17.3	17.1	T	T05
C/2014 Q2	2016 05 16.48945	18 12 45.28	+26 55 19.2	17.3	T	T05
C/2014 Q2	2016 05 16.51409	18 12 44.17	+26 55 19.2	17.3	T	T05
C/2014 Q2	2016 05 16.52340	18 12 43.73	+26 55 20.0	17.4	T	T05

C/2014 R3 (PANSTARRS)

C/2014 R3	2016 04 22.48353	15 52 39.068	+74 59 25.90	17.7	T	F51
C/2014 R3	2016 04 22.49784	15 52 36.570	+74 59 28.90	17.7	T	F51
C/2014 R3	2016 04 22.51177	15 52 34.084	+74 59 31.55	17.6	T	F51
C/2014 R3	2016 05 04.00975	15 17 34.33	+75 22 07.2	17.1	N	C23
C/2014 R3	2016 05 04.01408	15 17 33.48	+75 22 07.5	17.0	N	C23
C/2014 R3	2016 05 04.01841	15 17 32.70	+75 22 07.3	17.1	N	C23
C/2014 R3	2016 05 04.41450	15 16 18.35	+75 22 13.6	18.0	T	T05
C/2014 R3	2016 05 04.42333	15 16 16.61	+75 22 13.8	17.9	T	T05
C/2014 R3	2016 05 04.43253	15 16 14.70	+75 22 14.3	18.1	T	T05
C/2014 R3	2016 05 04.44430	15 16 12.60	+75 22 13.4	18.1	T	T05
C/2014 R3	2016 05 04.91941	15 14 43.17	+75 22 16.8	17.1	N	C23
C/2014 R3	2016 05 04.92230	15 14 42.64	+75 22 16.5	17.1	N	C23
C/2014 R3	2016 05 04.92808	15 14 41.56	+75 22 16.4	17.0	N	C23
C/2014 R3	2016 05 06.99543	15 08 12.45	+75 21 44.9	17.1	T	K 215
C/2014 R3	2016 05 06.99672	15 08 12.19	+75 21 45.0	17.1	T	K 215
C/2014 R3	2016 05 06.99801	15 08 11.96	+75 21 44.5	17.2	T	K 215
C/2014 R3	2016 05 07.05513	15 08 01.06	+75 21 42.6	16.9	T	K 461
C/2014 R3	2016 05 07.06006	15 08 00.14	+75 21 42.4			K 461
C/2014 R3	2016 05 07.06512	15 07 59.17	+75 21 42.3			K 461
C/2014 R3	2016 05 09.03178	15 01 50.56	+75 19 58.9	17.0	N	C23
C/2014 R3	2016 05 09.03611	15 01 49.73	+75 19 58.6	17.1	N	C23
C/2014 R3	2016 05 09.04044	15 01 48.94	+75 19 58.2	17.2	N	C23
C/2014 R3	2016 05 12.75834	14 50 20.46	+75 13 37.9			900
C/2014 R3	2016 05 12.76548	14 50 19.15	+75 13 37.0	17.4	T	900
C/2014 R3	2016 05 13.03710	14 49 29.52	+75 13 00.0	16.7	N	C23
C/2014 R3	2016 05 13.04084	14 49 28.87	+75 12 59.6	17.0	N	C23
C/2014 R3	2016 05 13.04686	14 49 27.82	+75 12 58.3	16.9	N	C23
C/2014 R3	2016 05 17.37173	14 36 33.711	+75 00 22.76	17.9	T	F51
C/2014 R3	2016 05 17.38611	14 36 31.162	+75 00 19.72	17.8	T	F51
C/2014 R3	2016 05 17.40054	14 36 28.626	+75 00 16.74	18.0	T	F51
C/2014 R3	2016 05 17.41499	14 36 26.063	+75 00 13.62	17.9	T	F51

C/2014 S2 (PANSTARRS)

C/2014 S2	2016 03 07.29168	14 14 52.44	+71 21 16.1	13.3	N	S H06
C/2014 S2	2016 03 07.29231	14 14 52.40	+71 21 15.1	12.7	N	S H06
C/2014 S2	2016 03 07.29368	14 14 51.82	+71 21 15.0	12.8	N	S H06
C/2014 S2	2016 03 07.35718	14 14 26.26	+71 21 10.1	12.9	N	S H06
C/2014 S2	2016 03 07.36057	14 14 25.03	+71 21 08.6	12.8	N	S H06
C/2014 S2	2016 03 07.39652	14 14 10.50	+71 21 05.4	12.8	N	S H06
C/2014 S2	2016 03 07.40226	14 14 08.11	+71 21 05.6	13.1	N	S H06
C/2014 S2	2016 03 07.44138	14 13 52.33	+71 21 01.1	12.8	N	S H06
C/2014 S2	2016 03 07.44476	14 13 50.99	+71 21 00.2	12.8	N	S H06
C/2014 S2	2016 03 07.47825	14 13 37.53	+71 20 57.2	13.1	N	S H06
C/2014 S2	2016 03 07.48025	14 13 36.65	+71 20 57.0	13.2	N	S H06
C/2014 S2	2016 03 10.37293	13 54 20.61	+71 10 18.1	12.7	N	S H06
C/2014 S2	2016 03 10.37623	13 54 19.33	+71 10 16.0	12.7	N	S H06
C/2014 S2	2016 03 10.43734	13 53 54.44	+71 09 56.3	12.7	N	S H06
C/2014 S2	2016 03 10.43936	13 53 54.04	+71 09 55.9	12.6	N	S H06
C/2014 S2	2016 03 10.47825	13 53 37.91	+71 09 42.5	12.6	N	S H06
C/2014 S2	2016 03 10.48025	13 53 36.92	+71 09 43.1	12.6	N	S H06
C/2014 S2	2016 03 11.30929	13 48 06.46	+71 04 36.9	12.8	N	S H06
C/2014 S2	2016 03 11.31135	13 48 05.69	+71 04 32.7	13.0	N	S H06
C/2014 S2	2016 03 11.35317	13 47 48.96	+71 04 17.4	12.9	N	S H06
C/2014 S2	2016 03 11.35516	13 47 48.43	+71 04 17.1	13.0	N	S H06
C/2014 S2	2016 03 11.40249	13 47 28.94	+71 03 59.9	12.8	N	S H06
C/2014 S2	2016 03 11.40456	13 47 28.08	+71 03 59.3	12.7	N	S H06
C/2014 S2	2016 03 11.43782	13 47 14.47	+71 03 43.7	12.9	N	S H06
C/2014 S2	2016 03 11.44126	13 47 13.25	+71 03 39.4	13.2	N	S H06
C/2014 S2	2016 03 11.48017	13 46 57.52	+71 03 27.6	12.8	N	S H06
C/2014 S2	2016 03 11.48354	13 46 56.15	+71 03 26.7	12.7	N	S H06
C/2014 S2	2016 03 12.37385	13 41 02.82	+70 56 50.4	13.2	N	S H06
C/2014 S2	2016 03 12.43758	13 40 37.09	+70 56 20.7	12.8	N	S H06
C/2014 S2	2016 03 12.47941	13 40 20.33	+70 55 57.4	12.4	N	S H06
C/2014 S2	2016 03 12.48142	13 40 19.30	+70 55 56.2	13.0	N	S H06
C/2014 S2	2016 03 14.32110	13 28 18.48	+70 38 51.1	12.8	N	S H06
C/2014 S2	2016 03 14.47990	13 27 16.00	+70 37 13.7	12.9	N	S H06
C/2014 S2	2016 03 14.48351	13 27 14.64	+70 37 08.5	12.8	N	S H06
C/2014 S2	2016 03 14.51685	13 27 01.55	+70 36 48.3	12.9	N	S H06
C/2014 S2	2016 03 14.51789	13 27 01.54	+70 36 48.2	12.8	N	S H06
C/2014 S2	2016 03 14.51885	13 27 00.75	+70 36 47.0	12.8	N	S H06
C/2014 S2	2016 03 15.27111	13 22 12.15	+70 28 23.6	13.0	N	S H06

C/2014 S2	2016 03 15.27312	13 22 11.15	+70 28 19.8	13.1	N	S	H06
C/2014 S2	2016 03 15.32635	13 21 50.89	+70 27 44.1	12.9	N	S	H06
C/2014 S2	2016 03 15.32740	13 21 50.84	+70 27 45.5	12.8	N	S	H06
C/2014 S2	2016 03 15.36924	13 21 34.15	+70 27 16.5	12.8	N	S	H06
C/2014 S2	2016 03 15.37024	13 21 33.93	+70 27 14.1	12.9	N	S	H06
C/2014 S2	2016 03 15.37264	13 21 32.78	+70 27 13.6	12.7	N	S	H06
C/2014 S2	2016 03 15.45044	13 21 02.71	+70 26 16.4	12.9	N	S	H06
C/2014 S2	2016 03 15.45247	13 21 02.12	+70 26 14.8	12.8	N	S	H06
C/2014 S2	2016 03 16.35443	13 15 20.82	+70 15 07.2	12.9	N	S	H06
C/2014 S2	2016 03 16.35644	13 15 20.27	+70 15 04.8	12.8	N	S	H06
C/2014 S2	2016 03 16.39622	13 15 05.01	+70 14 33.8	12.9	N	S	H06
C/2014 S2	2016 03 16.39822	13 15 03.92	+70 14 36.6	13.0	N	S	H06
C/2014 S2	2016 03 16.47590	13 14 34.73	+70 13 31.8	12.8	N	S	H06
C/2014 S2	2016 03 16.47795	13 14 34.06	+70 13 24.3	13.3	N	S	H06
C/2014 S2	2016 03 18.30214	13 03 23.79	+69 47 39.6	13.0	N	S	H06
C/2014 S2	2016 03 18.30419	13 03 22.89	+69 47 37.4	13.1	N	S	H06
C/2014 S2	2016 03 18.31166	13 03 20.26	+69 47 29.5	13.1	N	S	H06
C/2014 S2	2016 03 18.31367	13 03 19.56	+69 47 29.3	12.9	N	S	H06
C/2014 S2	2016 03 18.39503	13 02 49.70	+69 46 15.9	12.9	N	S	H06
C/2014 S2	2016 03 18.39705	13 02 49.07	+69 46 11.1	12.9	N	S	H06
C/2014 S2	2016 03 18.43740	13 02 34.41	+69 45 35.3	12.9	N	S	H06
C/2014 S2	2016 03 18.43942	13 02 33.78	+69 45 32.0	13.0	N	S	H06
C/2014 S2	2016 03 21.27090	12 46 13.50	+68 57 32.3	13.0	N	S	H06
C/2014 S2	2016 03 21.27291	12 46 12.79	+68 57 30.3	13.0	N	S	H06
C/2014 S2	2016 03 21.39528	12 45 31.64	+68 55 13.9	13.0	N	S	H06
C/2014 S2	2016 03 21.39729	12 45 30.98	+68 55 11.5	13.0	N	S	H06
C/2014 S2	2016 03 21.43748	12 45 17.47	+68 54 25.9	13.1	N	S	H06
C/2014 S2	2016 03 21.43949	12 45 16.94	+68 54 22.7	13.1	N	S	H06
C/2014 S2	2016 03 22.27074	12 40 45.87	+68 38 31.8	13.1	N	S	H06
C/2014 S2	2016 03 22.27274	12 40 45.17	+68 38 29.5	13.1	N	S	H06
C/2014 S2	2016 03 23.27267	12 35 27.80	+68 18 29.2	13.1	N	S	H06
C/2014 S2	2016 03 23.27619	12 35 26.70	+68 18 25.0	13.1	N	S	H06
C/2014 S2	2016 03 23.31282	12 35 15.07	+68 17 40.1	13.0	N	S	H06
C/2014 S2	2016 03 23.31481	12 35 14.49	+68 17 36.8	13.0	N	S	H06
C/2014 S2	2016 03 24.22839	12 30 34.35	+67 58 27.9	13.0	N	S	H06
C/2014 S2	2016 03 24.23057	12 30 33.71	+67 58 25.0	12.9	N	S	H06
C/2014 S2	2016 03 24.27284	12 30 20.85	+67 57 31.0	12.9	N	S	H06
C/2014 S2	2016 03 24.27627	12 30 19.83	+67 57 26.3	13.0	N	S	H06
C/2014 S2	2016 03 24.31512	12 30 07.91	+67 56 36.7	12.9	N	S	H06
C/2014 S2	2016 03 24.31712	12 30 07.26	+67 56 34.5	13.1	N	S	H06
C/2014 S2	2016 03 24.35426	12 29 56.00	+67 55 46.4	12.9	N	S	H06
C/2014 S2	2016 03 24.35626	12 29 55.21	+67 55 43.6	12.9	N	S	H06
C/2014 S2	2016 03 24.39832	12 29 42.54	+67 54 49.2	12.9	N	S	H06
C/2014 S2	2016 03 24.40244	12 29 41.32	+67 54 42.6	12.9	N	S	H06
C/2014 S2	2016 03 24.43694	12 29 30.80	+67 53 58.9	13.0	N	S	H06
C/2014 S2	2016 03 24.43897	12 29 30.16	+67 53 55.7	12.9	N	S	H06
C/2014 S2	2016 03 27.19351	12 16 26.47	+66 51 09.7	13.0	N	S	H06
C/2014 S2	2016 03 27.19802	12 16 24.93	+66 51 07.1	12.9	N	S	H06
C/2014 S2	2016 03 27.40459	12 15 28.64	+66 46 08.6	12.9	N	S	H06
C/2014 S2	2016 03 27.40839	12 15 27.95	+66 45 58.4	13.3	N	S	H06
C/2014 S2	2016 03 27.97447	12 12 57.85	+66 32 18.6	12.0	N		585
C/2014 S2	2016 03 27.97519	12 12 57.62	+66 32 17.8	12.0	N		585
C/2014 S2	2016 03 27.97592	12 12 57.43	+66 32 16.7	12.0	N		585
C/2014 S2	2016 03 27.97664	12 12 57.24	+66 32 15.6	12.0	N		585
C/2014 S2	2016 03 27.97736	12 12 57.06	+66 32 14.5	12.0	N		585
C/2014 S2	2016 03 27.97808	12 12 56.87	+66 32 13.5	12.0	N		585
C/2014 S2	2016 03 27.97881	12 12 56.66	+66 32 12.4	12.0	N		585
C/2014 S2	2016 03 27.97953	12 12 56.42	+66 32 11.2	12.0	N		585
C/2014 S2	2016 03 27.98025	12 12 56.28	+66 32 10.0	12.0	N		585
C/2014 S2	2016 03 27.98098	12 12 56.02	+66 32 09.0	12.0	N		585
C/2014 S2	2016 03 27.98339	12 12 55.46	+66 32 05.6	12.0	N		585
C/2014 S2	2016 03 27.98412	12 12 55.27	+66 32 04.5	12.0	N		585
C/2014 S2	2016 03 27.98556	12 12 54.98	+66 32 02.2	12.0	N		585
C/2014 S2	2016 03 31.19112	11 59 51.30	+65 09 50.3	14.1	N	S	H06
C/2014 S2	2016 03 31.23291	11 59 40.90	+65 08 45.4	13.9	N	S	H06
C/2014 S2	2016 03 31.27477	11 59 31.85	+65 07 38.6	14.1	N	S	H06
C/2014 S2	2016 03 31.28031	11 59 30.44	+65 07 28.3	14.0	N	S	H06
C/2014 S2	2016 03 31.36700	11 59 10.75	+65 05 05.2	14.2	N	S	H06
C/2014 S2	2016 03 31.36899	11 59 10.03	+65 05 06.9	13.9	N	S	H06
C/2014 S2	2016 03 31.39859	11 59 03.40	+65 04 19.3	14.0	N	S	H06
C/2014 S2	2016 03 31.43201	11 58 55.89	+65 03 20.4	14.2	N	S	H06
C/2014 S2	2016 03 31.43581	11 58 54.82	+65 03 18.0	14.0	N	S	H06
C/2014 S2	2016 04 05.45163	11 42 06.67	+62 42 06.3	9.9	T		D95
C/2014 S2	2016 04 05.45747	11 42 05.64	+62 41 56.1				D95
C/2014 S2	2016 04 05.45966	11 42 05.22	+62 41 52.3				D95
C/2014 S2	2016 04 08.91807	11 32 40.99	+60 58 23.1	13.7	N	9	G40
C/2014 S2	2016 04 08.92587	11 32 39.82	+60 58 08.7	13.7	N	9	G40
C/2014 S2	2016 04 08.92936	11 32 39.30	+60 58 02.7	13.7	N	9	G40
C/2014 S2	2016 04 08.93370	11 32 38.62	+60 57 54.9	13.7	N	9	G40
C/2014 S2	2016 04 17.13802	11 16 15.01	+56 41 15.2	13.5	N	S	H06
C/2014 S2	2016 04 17.14148	11 16 14.62	+56 41 08.7	13.4	N	S	H06
C/2014 S2	2016 04 17.20519	11 16 08.40	+56 39 08.5	14.4	N	S	H06
C/2014 S2	2016 04 17.20719	11 16 08.30	+56 39 03.9	13.6	N	S	H06
C/2014 S2	2016 04 17.24638	11 16 04.49	+56 37 49.2	13.8	N	S	H06
C/2014 S2	2016 04 17.24838	11 16 04.25	+56 37 46.0	14.3	N	S	H06
C/2014 S2	2016 04 17.32918	11 15 56.46	+56 35 11.3	14.5	N	S	H06
C/2014 S2	2016 04 17.33118	11 15 56.32	+56 35 07.1	14.5	N	S	H06
C/2014 S2	2016 04 18.22666	11 14 35.65	+56 06 38.6	14.5	N	S	H06
C/2014 S2	2016 04 18.23314	11 14 35.06	+56 06 26.1	14.5	N	S	H06
C/2014 S2	2016 04 18.26674	11 14 32.03	+56 05 21.9	14.5	N	S	H06
C/2014 S2	2016 04 18.26873	11 14 31.87	+56 05 18.2	14.5	N	S	H06
C/2014 S2	2016 04 19.79590	11 12 24.21	+55 16 40.7	14.3	N	K	160
C/2014 S2	2016 04 19.79792	11 12 24.05	+55 16 36.9	14.4	N	K	160
C/2014 S2	2016 04 19.79993	11 12 23.88	+55 16 32.8	14.4	N	K	160
C/2014 S2	2016 04 19.86490	11 12 18.60	+55 14 28.5	13.3	N		107
C/2014 S2	2016 04 19.88625	11 12 16.83	+55 13 48.2	13.8	N		107
C/2014 S2	2016 04 19.90564	11 12 15.34	+55 13 10.5	13.9	N		K02
C/2014 S2	2016 04 19.90828	11 12 15.08	+55 13 05.7	13.9	N		107
C/2014 S2	2016 04 19.91054	11 12 14.96	+55 13 00.9	13.3	N		K02
C/2014 S2	2016 04 19.91650	11 12 14.48	+55 12 49.6	13.3	N		K02
C/2014 S2	2016 04 20.04550	11 12 04.13	+55 08 41.7	13.4	N		C23
C/2014 S2	2016 04 20.05717	11 12 03.19	+55 08 19.3	13.3	N		C23
C/2014 S2	2016 04 20.06466	11 12 02.59	+55 08 05.1	13.4	N		C23
C/2014 S2	2016 04 20.89946	11 10 58.93	+54 41 32.0	14.7	N		C47
C/2014 S2	2016 04 20.90241	11 10 58.69	+54 41 25.9	14.8	N		C47
C/2014 S2	2016 04 20.90573	11 10 58.47	+54 41 18.5	15.1	N		C47

C/2014 S2	2016 04 20.90905	11 10 58.18	+54 41 13.1	15.0	N	C47
C/2014 S2	2016 04 20.91237	11 10 57.94	+54 41 06.5	14.9	N	C47
C/2014 S2	2016 04 20.91569	11 10 57.67	+54 41 00.5	14.7	N	C47
C/2014 S2	2016 04 21.07417	11 10 45.79	+54 35 55.4	13.6	N	L04
C/2014 S2	2016 04 21.07808	11 10 45.49	+54 35 48.5	13.6	N	L04
C/2014 S2	2016 04 21.08226	11 10 45.19	+54 35 39.8	13.6	N	L04
C/2014 S2	2016 04 21.08532	11 10 44.95	+54 35 33.8	13.6	N	L04
C/2014 S2	2016 04 21.81198	11 09 53.13	+54 12 29.3	14.9	N	C47
C/2014 S2	2016 04 21.81531	11 09 52.89	+54 12 22.5	15.0	N	C47
C/2014 S2	2016 04 21.81863	11 09 52.65	+54 12 16.4	14.6	N	C47
C/2014 S2	2016 04 21.82195	11 09 52.45	+54 12 09.8	14.9	N	C47
C/2014 S2	2016 04 21.82527	11 09 52.18	+54 12 03.6	14.8	N	C47
C/2014 S2	2016 04 21.82859	11 09 51.94	+54 11 57.8	14.9	N	C47
C/2014 S2	2016 04 21.83228	11 09 51.67	+54 11 50.0	14.5	N	C47
C/2014 S2	2016 04 23.85284	11 07 39.42	+53 07 36.8	12.1	N	C36
C/2014 S2	2016 04 23.85381	11 07 39.32	+53 07 35.0	12.1	N	C36
C/2014 S2	2016 04 23.85426	11 07 39.28	+53 07 34.4	12.2	N	C36
C/2014 S2	2016 04 23.85522	11 07 39.30	+53 07 32.2	12.1	N	C36
C/2014 S2	2016 04 23.85619	11 07 39.20	+53 07 30.6	12.1	N	C36
C/2014 S2	2016 04 23.85811	11 07 39.05	+53 07 26.8	12.1	N	C36
C/2014 S2	2016 04 23.86279	11 07 38.75	+53 07 20.7	13.4	N	I99
C/2014 S2	2016 04 23.86583	11 07 38.58	+53 07 15.0	13.4	N	I99
C/2014 S2	2016 04 23.86819	11 07 38.42	+53 07 10.5	13.4	N	I99
C/2014 S2	2016 04 24.87255	11 06 39.05	+52 35 20.6	14.8	N	C47
C/2014 S2	2016 04 24.87587	11 06 38.86	+52 35 14.2	14.9	N	C47
C/2014 S2	2016 04 24.87956	11 06 38.62	+52 35 07.4	14.8	N	C47
C/2014 S2	2016 04 24.88325	11 06 38.43	+52 35 00.5	14.8	N	C47
C/2014 S2	2016 04 24.88694	11 06 38.20	+52 34 53.2	14.9	N	C47
C/2014 S2	2016 04 24.89063	11 06 38.00	+52 34 46.2	14.2	N	C47
C/2014 S2	2016 04 24.89431	11 06 37.79	+52 34 39.5	14.9	N	C47
C/2014 S2	2016 04 24.89874	11 06 37.51	+52 34 31.0	14.8	N	C47
C/2014 S2	2016 04 25.82980	11 05 46.63	+52 05 05.9	13.2	N	C35
C/2014 S2	2016 04 25.83057	11 05 46.61	+52 05 04.7	13.2	N	C35
C/2014 S2	2016 04 25.83133	11 05 46.50	+52 05 03.2	13.2	N	C35
C/2014 S2	2016 04 25.860041	11 05 44.89	+52 04 08.2	13.2	T	130
C/2014 S2	2016 04 25.861071	11 05 44.85	+52 04 06.5	13.2	T	130
C/2014 S2	2016 04 25.862112	11 05 44.81	+52 04 04.2	13.2	T	130
C/2014 S2	2016 04 25.863571	11 05 44.71	+52 04 01.7	13.2	T	130
C/2014 S2	2016 04 26.49113	11 05 12.45	+51 44 14.4			D81
C/2014 S2	2016 04 26.49172	11 05 12.30	+51 44 13.2			D81
C/2014 S2	2016 04 26.49231	11 05 12.30	+51 44 12.1			D81
C/2014 S2	2016 04 26.49291	11 05 12.26	+51 44 10.7	11.3	T	D81
C/2014 S2	2016 04 26.86849	11 04 53.36	+51 32 22.1	13.7	N	K K25
C/2014 S2	2016 04 26.87347	11 04 53.20	+51 32 13.2	14.4	N	J01
C/2014 S2	2016 04 26.87553	11 04 53.02	+51 32 08.3	13.7	N	K K25
C/2014 S2	2016 04 26.88237	11 04 52.73	+51 31 55.8	14.4	N	J01
C/2014 S2	2016 04 26.88258	11 04 52.65	+51 31 54.9	13.6	N	K K25
C/2014 S2	2016 04 26.88457	11 04 52.66	+51 31 52.0	14.4	N	J01
C/2014 S2	2016 04 26.94126	11 04 49.83	+51 30 03.0	13.5	N	I81
C/2014 S2	2016 04 26.94195	11 04 49.80	+51 30 01.7	13.4	N	I81
C/2014 S2	2016 04 26.94248	11 04 49.73	+51 30 00.9	13.5	N	I81
C/2014 S2	2016 04 27.90968	11 04 04.08	+50 59 39.2	12.8	N	585
C/2014 S2	2016 04 27.91038	11 04 04.05	+50 59 37.8	12.8	N	585
C/2014 S2	2016 04 27.91109	11 04 04.01	+50 59 36.5	12.8	N	585
C/2014 S2	2016 04 27.91263	11 04 03.93	+50 59 33.5	12.8	N	585
C/2014 S2	2016 04 27.91334	11 04 03.90	+50 59 32.2	12.8	N	585
C/2014 S2	2016 04 27.91404	11 04 03.87	+50 59 30.8	12.8	N	585
C/2014 S2	2016 04 27.91475	11 04 03.83	+50 59 29.5	12.8	N	585
C/2014 S2	2016 04 27.91546	11 04 03.80	+50 59 28.2	12.8	N	585
C/2014 S2	2016 04 27.91617	11 04 03.76	+50 59 26.9	12.8	N	585
C/2014 S2	2016 04 27.91688	11 04 03.73	+50 59 25.6	12.8	N	585
C/2014 S2	2016 04 27.91759	11 04 03.70	+50 59 24.2	12.9	N	585
C/2014 S2	2016 04 27.91829	11 04 03.67	+50 59 22.8	12.9	N	585
C/2014 S2	2016 04 27.91900	11 04 03.64	+50 59 21.5	12.8	N	585
C/2014 S2	2016 04 27.91971	11 04 03.61	+50 59 20.2	12.8	N	585
C/2014 S2	2016 04 27.92042	11 04 03.57	+50 59 18.8	12.9	N	585
C/2014 S2	2016 04 27.92113	11 04 03.54	+50 59 17.5	12.9	N	585
C/2014 S2	2016 04 27.92183	11 04 03.50	+50 59 16.2	12.8	N	585
C/2014 S2	2016 04 27.92254	11 04 03.48	+50 59 14.8	12.8	N	585
C/2014 S2	2016 04 27.92325	11 04 03.44	+50 59 13.5	12.8	N	585
C/2014 S2	2016 04 27.92396	11 04 03.41	+50 59 12.1	12.9	N	585
C/2014 S2	2016 04 27.92467	11 04 03.38	+50 59 10.8	12.9	N	585
C/2014 S2	2016 04 27.92538	11 04 03.34	+50 59 09.5	12.8	N	585
C/2014 S2	2016 04 27.99260	11 04 00.39	+50 57 02.3	13.5	N	I81
C/2014 S2	2016 04 27.99286	11 04 00.38	+50 57 01.8	13.4	N	I81
C/2014 S2	2016 04 28.00493	11 03 59.82	+50 56 38.9	13.5	N	I81
C/2014 S2	2016 04 28.00520	11 03 59.81	+50 56 38.5	13.5	N	I81
C/2014 S2	2016 04 28.27343	11 03 47.78	+50 48 15.1	15.2	N	S H06
C/2014 S2	2016 04 28.31793	11 03 45.84	+50 46 51.5	14.3	N	S H06
C/2014 S2	2016 04 28.32185	11 03 45.60	+50 46 43.5	14.1	N	S H06
C/2014 S2	2016 04 28.60578	11 03 33.65	+50 37 51.2	12.6	N	G26
C/2014 S2	2016 04 28.73848	11 03 27.96	+50 33 40.9	12.4	N	G26
C/2014 S2	2016 04 28.89579	11 03 21.21	+50 28 47.8	13.3	N	C23
C/2014 S2	2016 04 28.90403	11 03 20.86	+50 28 32.4	13.4	N	C23
C/2014 S2	2016 04 28.91377	11 03 20.41	+50 28 14.3	13.5	N	C23
C/2014 S2	2016 04 28.93088	11 03 19.58	+50 27 42.8	13.7	N	K K25
C/2014 S2	2016 04 28.94075	11 03 19.15	+50 27 24.1	13.8	N	K K25
C/2014 S2	2016 04 28.95104	11 03 18.71	+50 27 04.9	13.7	N	K K25
C/2014 S2	2016 04 29.87779	11 02 41.57	+49 58 11.6	12.9	N	585
C/2014 S2	2016 04 29.87838	11 02 41.54	+49 58 10.4	12.9	N	585
C/2014 S2	2016 04 29.87897	11 02 41.52	+49 58 09.4	12.9	N	585
C/2014 S2	2016 04 29.87957	11 02 41.50	+49 58 08.2	12.9	N	585
C/2014 S2	2016 04 29.88016	11 02 41.47	+49 58 07.2	12.9	N	585
C/2014 S2	2016 04 29.88075	11 02 41.45	+49 58 06.0	12.9	N	585
C/2014 S2	2016 04 29.88134	11 02 41.43	+49 58 05.0	12.9	N	585
C/2014 S2	2016 04 29.88193	11 02 41.40	+49 58 03.8	12.9	N	585
C/2014 S2	2016 04 29.88253	11 02 41.39	+49 58 02.6	12.9	N	585
C/2014 S2	2016 04 29.88312	11 02 41.36	+49 58 01.6	12.9	N	585
C/2014 S2	2016 04 29.88371	11 02 41.34	+49 58 00.4	12.9	N	585
C/2014 S2	2016 04 29.92818	11 02 39.68	+49 56 39.7	14.1	N	9 G40
C/2014 S2	2016 04 29.94144	11 02 39.16	+49 56 15.0	14.2	N	9 G40
C/2014 S2	2016 04 29.94675	11 02 38.93	+49 56 02.8	13.5	N	K02
C/2014 S2	2016 04 29.95128	11 02 38.74	+49 55 54.5	13.7	N	K02
C/2014 S2	2016 04 29.95728	11 02 38.47	+49 55 43.7	14.2	N	K02
C/2014 S2	2016 04 30.01550	11 02 36.41	+49 53 52.4	13.1	N	I81
C/2014 S2	2016 04 30.03868	11 02 35.52	+49 53 08.1	13.6	N	I81

C/2014 S2	2016 04 30.06017	11 02 34.37	+49 52 30.0	14.7	N	C47
C/2014 S2	2016 04 30.06313	11 02 34.34	+49 52 24.3	14.8	N	C47
C/2014 S2	2016 04 30.06608	11 02 34.21	+49 52 19.0	15.1	N	C47
C/2014 S2	2016 04 30.06903	11 02 34.08	+49 52 13.7	15.1	N	C47
C/2014 S2	2016 04 30.07198	11 02 34.00	+49 52 07.6	15.3	N	C47
C/2014 S2	2016 04 30.07530	11 02 33.84	+49 52 01.6	14.8	N	C47
C/2014 S2	2016 04 30.07906	11 02 33.91	+49 51 53.4	13.2	N	I81
C/2014 S2	2016 04 30.53017	11 02 17.13	+49 37 56.6			K D88
C/2014 S2	2016 04 30.53197	11 02 17.07	+49 37 53.3			K D88
C/2014 S2	2016 04 30.53377	11 02 17.00	+49 37 50.0	11.3	T	K D88
C/2014 S2	2016 04 30.88875	11 02 04.32	+49 26 50.9	13.5	N	I72
C/2014 S2	2016 04 30.89041	11 02 04.22	+49 26 46.2	13.8	N	C23
C/2014 S2	2016 04 30.89340	11 02 04.11	+49 26 40.7	13.7	N	C23
C/2014 S2	2016 04 30.89640	11 02 04.01	+49 26 35.0	13.7	N	C23
C/2014 S2	2016 04 30.90784	11 02 03.61	+49 26 15.2	13.5	N	I72
C/2014 S2	2016 04 30.94713	11 02 02.18	+49 25 02.1	13.4	N	I72
C/2014 S2	2016 04 30.96532	11 02 01.48	+49 24 26.9	13.7	N	K02
C/2014 S2	2016 04 30.96976	11 02 01.30	+49 24 18.7	13.8	N	K02
C/2014 S2	2016 04 30.97568	11 02 01.09	+49 24 07.8	13.8	N	K02
C/2014 S2	2016 05 01.56197	11 01 41.31	+49 06 01.6			D81
C/2014 S2	2016 05 01.56256	11 01 41.20	+49 05 59.4			D81
C/2014 S2	2016 05 01.56315	11 01 41.17	+49 05 57.6			D81
C/2014 S2	2016 05 01.56374	11 01 41.09	+49 05 56.4	11.0	T	D81
C/2014 S2	2016 05 01.82429	11 01 32.72	+48 57 56.6	13.4	N	C35
C/2014 S2	2016 05 01.82677	11 01 32.71	+48 57 51.6	13.3	N	C35
C/2014 S2	2016 05 01.82801	11 01 32.65	+48 57 48.6	13.3	N	C35
C/2014 S2	2016 05 01.97087	11 01 27.75	+48 53 25.7	13.3	N	J22
C/2014 S2	2016 05 01.97285	11 01 27.68	+48 53 21.6	13.3	N	J22
C/2014 S2	2016 05 01.97384	11 01 27.62	+48 53 20.1	13.3	N	J22
C/2014 S2	2016 05 02.85912	11 01 00.60	+48 26 07.8	14.1	N	J01
C/2014 S2	2016 05 02.86159	11 01 00.63	+48 26 02.8	14.2	N	J01
C/2014 S2	2016 05 02.86344	11 01 00.51	+48 25 59.3	14.3	N	J01
C/2014 S2	2016 05 02.88816	11 00 59.76	+48 25 13.6	13.4	N	I72
C/2014 S2	2016 05 02.92067	11 00 58.74	+48 24 13.9	13.4	N	I72
C/2014 S2	2016 05 02.94792	11 00 58.07	+48 23 21.5	13.2	N	I81
C/2014 S2	2016 05 02.94838	11 00 58.10	+48 23 20.3	13.1	N	I81
C/2014 S2	2016 05 02.95280	11 00 57.78	+48 23 14.5	13.4	N	I72
C/2014 S2	2016 05 02.95810	11 00 57.76	+48 23 02.8	13.3	N	I81
C/2014 S2	2016 05 02.95846	11 00 57.73	+48 23 02.2	13.3	N	I81
C/2014 S2	2016 05 03.89511	11 00 31.70	+47 54 26.4	13.4	N	I72
C/2014 S2	2016 05 03.89921	11 00 31.60	+47 54 18.2	14.3	N	C23
C/2014 S2	2016 05 03.90722	11 00 31.48	+47 54 04.7	13.5	N	Z39
C/2014 S2	2016 05 03.90820	11 00 31.35	+47 54 01.3	13.7	N	C23
C/2014 S2	2016 05 03.91719	11 00 31.08	+47 53 45.0	14.2	N	C23
C/2014 S2	2016 05 03.92301	11 00 31.01	+47 53 35.8	13.6	N	Z39
C/2014 S2	2016 05 03.92745	11 00 30.80	+47 53 27.1	13.4	N	I72
C/2014 S2	2016 05 03.93737	11 00 30.61	+47 53 09.4	13.6	N	Z39
C/2014 S2	2016 05 03.95778	11 00 29.96	+47 52 31.3	13.4	N	I72
C/2014 S2	2016 05 04.25277	11 00 22.28	+47 43 31.9	14.1	N	H45
C/2014 S2	2016 05 04.25516	11 00 22.20	+47 43 27.6	14.2	N	H45
C/2014 S2	2016 05 04.25623	11 00 22.18	+47 43 25.5	14.1	N	H45
C/2014 S2	2016 05 04.25730	11 00 22.14	+47 43 23.6	14.2	N	H45
C/2014 S2	2016 05 04.25840	11 00 22.12	+47 43 21.5	14.2	N	H45
C/2014 S2	2016 05 04.25977	11 00 22.08	+47 43 19.0	14.1	N	H45
C/2014 S2	2016 05 04.30806	11 00 21.14	+47 41 51.9	14.1	T	T05
C/2014 S2	2016 05 04.31728	11 00 20.88	+47 41 35.2	14.1	T	T05
C/2014 S2	2016 05 04.32262	11 00 20.74	+47 41 25.3	14.0	T	T05
C/2014 S2	2016 05 04.33525	11 00 20.39	+47 41 02.3	14.1	T	T05
C/2014 S2	2016 05 04.91308	11 00 06.25	+47 23 27.9	13.8	N	C23
C/2014 S2	2016 05 04.91533	11 00 06.19	+47 23 23.9	13.8	N	C23
C/2014 S2	2016 05 04.91758	11 00 06.13	+47 23 19.9	14.2	N	C23
C/2014 S2	2016 05 05.81688	10 59 46.07	+46 56 09.0			107
C/2014 S2	2016 05 05.83890	10 59 45.57	+46 55 29.1			107
C/2014 S2	2016 05 05.86166	10 59 45.05	+46 54 47.8			107
C/2014 S2	2016 05 05.86191	10 59 44.99	+46 54 47.2	15.1	N	C47
C/2014 S2	2016 05 05.86559	10 59 44.91	+46 54 40.6	15.1	N	C47
C/2014 S2	2016 05 05.86965	10 59 44.81	+46 54 32.9	15.2	N	C47
C/2014 S2	2016 05 05.87371	10 59 44.73	+46 54 26.0	15.2	N	C47
C/2014 S2	2016 05 05.87777	10 59 44.64	+46 54 18.4	15.1	N	C47
C/2014 S2	2016 05 05.88183	10 59 44.56	+46 54 11.0	14.6	N	C47
C/2014 S2	2016 05 06.06161	10 59 40.78	+46 48 44.0	13.7	N	C23
C/2014 S2	2016 05 06.06385	10 59 40.70	+46 48 40.5	14.4	N	C23
C/2014 S2	2016 05 06.06535	10 59 40.74	+46 48 37.0	13.6	N	C23
C/2014 S2	2016 05 06.84610	10 59 25.51	+46 25 10.1	15.0	N	A77
C/2014 S2	2016 05 06.85453	10 59 25.34	+46 24 56.5	15.4	N	C47
C/2014 S2	2016 05 06.85748	10 59 25.27	+46 24 50.9	15.4	N	C47
C/2014 S2	2016 05 06.85816	10 59 25.34	+46 24 48.6	15.1	N	A77
C/2014 S2	2016 05 06.86080	10 59 25.23	+46 24 45.2	15.4	N	C47
C/2014 S2	2016 05 06.86413	10 59 25.12	+46 24 39.2	15.4	N	C47
C/2014 S2	2016 05 06.86719	10 59 25.10	+46 24 32.5	14.9	N	A77
C/2014 S2	2016 05 06.86745	10 59 25.10	+46 24 33.5	15.3	N	C47
C/2014 S2	2016 05 06.87077	10 59 25.02	+46 24 27.4	15.3	N	C47
C/2014 S2	2016 05 06.88398	10 59 24.85	+46 24 03.1	14.0	N	C23
C/2014 S2	2016 05 06.88898	10 59 24.64	+46 23 54.9	14.6	N	461
C/2014 S2	2016 05 06.89153	10 59 24.59	+46 23 50.3	14.6	N	461
C/2014 S2	2016 05 06.89223	10 59 24.67	+46 23 48.2	14.0	N	C23
C/2014 S2	2016 05 06.89407	10 59 24.55	+46 23 45.6	14.7	N	461
C/2014 S2	2016 05 06.90197	10 59 24.50	+46 23 30.4	13.7	N	C23
C/2014 S2	2016 05 06.90994	10 59 24.35	+46 23 15.0	12.3	N	C36
C/2014 S2	2016 05 06.91010	10 59 24.25	+46 23 15.1	12.4	N	C36
C/2014 S2	2016 05 06.91021	10 59 24.29	+46 23 14.5	12.5	N	C36
C/2014 S2	2016 05 06.91076	10 59 24.29	+46 23 12.8	12.4	N	C36
C/2014 S2	2016 05 07.29640	10 59 17.55	+46 11 43.5	14.0	T	T05
C/2014 S2	2016 05 07.30757	10 59 17.34	+46 11 23.3	14.1	T	T05
C/2014 S2	2016 05 07.32121	10 59 17.06	+46 10 58.9	14.1	T	T05
C/2014 S2	2016 05 07.34012	10 59 16.68	+46 10 25.1	14.1	T	T05
C/2014 S2	2016 05 07.85162	10 59 08.11	+45 55 08.5	14.6	N	A71
C/2014 S2	2016 05 07.85244	10 59 08.07	+45 55 06.7	14.6	N	A71
C/2014 S2	2016 05 07.85326	10 59 08.05	+45 55 05.0	14.6	N	A71
C/2014 S2	2016 05 07.85409	10 59 08.04	+45 55 04.3	14.5	N	A71
C/2014 S2	2016 05 08.87382	10 58 52.87	+45 24 48.3	14.4	N	C23
C/2014 S2	2016 05 08.87907	10 58 52.79	+45 24 38.9	14.4	N	C23
C/2014 S2	2016 05 08.88431	10 58 52.72	+45 24 29.0	14.0	N	C23
C/2014 S2	2016 05 08.90412	10 58 52.35	+45 23 52.7	13.5	N	A98
C/2014 S2	2016 05 08.90572	10 58 52.34	+45 23 50.0	13.5	N	A98
C/2014 S2	2016 05 08.90730	10 58 52.34	+45 23 47.1	13.5	N	A98

C/2014 S2	2016 05 08.90837	10 58 52.34	+45 23 45.0	13.5	N	A98
C/2014 S2	2016 05 08.91050	10 58 52.23	+45 23 42.5	13.5	N	A98
C/2014 S2	2016 05 08.91103	10 58 52.29	+45 23 40.4	13.5	N	A98
C/2014 S2	2016 05 08.91208	10 58 52.30	+45 23 38.5	13.4	N	A98
C/2014 S2	2016 05 08.91315	10 58 52.24	+45 23 36.5	13.5	N	A98
C/2014 S2	2016 05 08.91368	10 58 52.27	+45 23 35.3	13.3	N	A98
C/2014 S2	2016 05 08.92792	10 58 52.07	+45 23 11.5	14.0	N	K02
C/2014 S2	2016 05 08.93234	10 58 51.97	+45 23 04.2	14.6	N	K02
C/2014 S2	2016 05 08.93826	10 58 51.93	+45 22 53.1	13.9	N	K02
C/2014 S2	2016 05 09.84922	10 58 40.50	+44 56 02.4	15.4	N	C47
C/2014 S2	2016 05 09.85291	10 58 40.48	+44 55 55.9	15.3	N	C47
C/2014 S2	2016 05 09.85697	10 58 40.42	+44 55 48.8	15.3	N	C47
C/2014 S2	2016 05 09.86103	10 58 40.36	+44 55 41.7	15.3	N	C47
C/2014 S2	2016 05 09.86509	10 58 40.32	+44 55 34.4	15.4	N	C47
C/2014 S2	2016 05 09.86915	10 58 40.28	+44 55 26.9	14.5	N	C47
C/2014 S2	2016 05 09.94943	10 58 39.55	+44 53 01.4	13.0	N	C36
C/2014 S2	2016 05 09.94970	10 58 39.37	+44 53 01.3	13.2	N	C36
C/2014 S2	2016 05 09.95015	10 58 39.42	+44 53 00.7	13.0	N	C36
C/2014 S2	2016 05 09.95044	10 58 39.34	+44 53 00.7	13.0	N	C36
C/2014 S2	2016 05 09.95080	10 58 39.41	+44 52 59.2	13.0	N	C36
C/2014 S2	2016 05 09.95106	10 58 39.33	+44 52 59.6	13.0	N	C36
C/2014 S2	2016 05 10.59453	10 58 32.75	+44 34 09.3	12.6	N	G26
C/2014 S2	2016 05 10.61145	10 58 32.56	+44 33 39.8	12.7	N	G26
C/2014 S2	2016 05 10.65265	10 58 32.15	+44 32 26.7	12.5	N	G26
C/2014 S2	2016 05 10.89397	10 58 29.77	+44 25 23.3	13.0	N	C36
C/2014 S2	2016 05 10.89486	10 58 29.79	+44 25 22.1	13.0	N	C36
C/2014 S2	2016 05 10.89634	10 58 29.78	+44 25 18.5	13.0	N	C36
C/2014 S2	2016 05 10.89715	10 58 29.71	+44 25 17.8	13.0	N	C36
C/2014 S2	2016 05 10.89869	10 58 29.63	+44 25 15.9	13.1	N	C36
C/2014 S2	2016 05 10.90021	10 58 29.56	+44 25 12.7	13.0	N	C36
C/2014 S2	2016 05 12.48795	10 58 17.67	+43 39 09.4			D81
C/2014 S2	2016 05 12.48854	10 58 17.62	+43 39 10.6			D81
C/2014 S2	2016 05 12.48913	10 58 17.62	+43 39 08.8			D81
C/2014 S2	2016 05 12.48972	10 58 17.78	+43 39 07.5	10.7	T	D81
C/2014 S2	2016 05 12.50388	10 58 17.59	+43 38 43.4			367
C/2014 S2	2016 05 12.50631	10 58 17.58	+43 38 39.3			367
C/2014 S2	2016 05 12.50874	10 58 17.54	+43 38 35.2	10.6	T	367
C/2014 S2	2016 05 12.52341	10 58 17.42	+43 38 09.6			900
C/2014 S2	2016 05 12.53056	10 58 17.38	+43 37 57.1	10.5	T	900
C/2014 S2	2016 05 12.85780	10 58 15.62	+43 28 29.1	12.9	N	C36
C/2014 S2	2016 05 12.85940	10 58 15.67	+43 28 26.0	13.0	N	C36
C/2014 S2	2016 05 12.86029	10 58 15.63	+43 28 24.5	12.9	N	C36
C/2014 S2	2016 05 12.86113	10 58 15.69	+43 28 22.9	12.9	N	C36
C/2014 S2	2016 05 12.86274	10 58 15.66	+43 28 20.3	12.9	N	C36
C/2014 S2	2016 05 12.86485	10 58 15.58	+43 28 17.0	12.9	N	C36
C/2014 S2	2016 05 12.86645	10 58 15.60	+43 28 13.7	12.9	N	C36
C/2014 S2	2016 05 13.02010	10 58 14.74	+43 23 49.4	14.7	N	C23
C/2014 S2	2016 05 13.02459	10 58 14.70	+43 23 41.7	13.9	N	C23
C/2014 S2	2016 05 13.03059	10 58 14.65	+43 23 31.8	14.5	N	C23
C/2014 S2	2016 05 13.10396	10 58 14.44	+43 21 27.4	13.3	N	H45
C/2014 S2	2016 05 13.10578	10 58 14.43	+43 21 24.3	13.4	N	H45
C/2014 S2	2016 05 13.10698	10 58 14.43	+43 21 22.1	13.4	N	H45
C/2014 S2	2016 05 13.10822	10 58 14.42	+43 21 20.0	13.4	N	H45
C/2014 S2	2016 05 13.10940	10 58 14.41	+43 21 18.0	13.3	N	H45
C/2014 S2	2016 05 13.11105	10 58 14.40	+43 21 14.7	11.3	T	H45
C/2014 S2	2016 05 15.29591	10 58 08.63	+42 19 00.7	14.3	T	T05
C/2014 S2	2016 05 15.30520	10 58 08.61	+42 18 44.9	14.3	T	T05
C/2014 S2	2016 05 15.30907	10 58 08.60	+42 18 38.1	14.3	T	T05
C/2014 S2	2016 05 15.31736	10 58 08.59	+42 18 24.3	14.3	T	T05
C/2014 S2	2016 05 16.92271	10 58 09.79	+41 33 19.3	14.3	N	K02
C/2014 S2	2016 05 16.92862	10 58 09.80	+41 33 09.3	14.3	N	K02
C/2014 S2	2016 05 16.93455	10 58 09.82	+41 32 59.3	14.2	N	K02
C/2014 S2	2016 05 17.26987	10 58 10.695	+41 23 41.61	15.2	T	F51
C/2014 S2	2016 05 17.28116	10 58 10.690	+41 23 21.98	15.2	T	F51
C/2014 S2	2016 05 17.29240	10 58 10.738	+41 23 03.50	15.4	T	F51
C/2014 S2	2016 05 17.30370	10 58 10.736	+41 22 44.85	15.4	T	F51
C/2014 S2	2016 05 17.90694	10 58 12.69	+41 05 58.3	14.2	N	A77
C/2014 S2	2016 05 17.93012	10 58 12.82	+41 05 19.8	14.2	N	A77
C/2014 S2	2016 05 17.95300	10 58 12.88	+41 04 41.2	14.1	N	A77
C/2014 S2	2016 05 18.92786	10 58 17.48	+40 37 50.8	14.8	N	9 G40
C/2014 S2	2016 05 18.93198	10 58 17.48	+40 37 44.1	14.8	N	9 G40
C/2014 S2	2016 05 18.93463	10 58 17.49	+40 37 39.9	14.7	N	9 G40
C/2014 S2	2016 05 18.94061	10 58 17.51	+40 37 29.7	14.7	N	9 G40

C/2014 W2 (PANSTARRS)

C/2014 W2	2016 03 10.74664	20 34 41.22	+65 26 59.3	13.4	T	585
C/2014 W2	2016 03 10.74735	20 34 41.22	+65 26 58.7	14.2	N	585
C/2014 W2	2016 03 10.74806	20 34 41.10	+65 26 59.4	14.2	N	585
C/2014 W2	2016 03 10.74877	20 34 41.35	+65 26 59.6	14.2	N	585
C/2014 W2	2016 03 10.75018	20 34 41.17	+65 27 00.5	14.2	N	585
C/2014 W2	2016 03 10.75089	20 34 41.19	+65 27 00.6	14.1	N	585
C/2014 W2	2016 03 10.75231	20 34 41.16	+65 27 01.4	14.3	N	585
C/2014 W2	2016 03 10.75301	20 34 41.24	+65 27 01.5	14.1	N	585
C/2014 W2	2016 03 10.75372	20 34 41.07	+65 27 02.1	14.3	N	585
C/2014 W2	2016 03 10.75443	20 34 41.07	+65 27 01.7	14.3	N	585
C/2014 W2	2016 03 10.75655	20 34 41.23	+65 27 02.4	14.1	N	585
C/2014 W2	2016 03 14.83706	20 34 14.49	+65 49 05.1	14.1	T	168
C/2014 W2	2016 03 14.83856	20 34 14.49	+65 49 05.7	14.1	T	168
C/2014 W2	2016 03 14.88584	20 34 13.97	+65 49 22.5	14.3	T	168
C/2014 W2	2016 03 14.88810	20 34 13.95	+65 49 23.5	14.1	T	168
C/2014 W2	2016 03 15.88630	20 34 00.80	+65 55 22.3	14.0	T	168
C/2014 W2	2016 03 15.88931	20 34 00.74	+65 55 23.4	14.0	T	168
C/2014 W2	2016 03 15.98515	20 33 59.33	+65 55 59.6	14.1	T	168
C/2014 W2	2016 03 15.98734	20 33 59.29	+65 56 00.4	14.1	T	168
C/2014 W2	2016 03 16.74161	20 33 46.98	+66 00 38.9	13.4	T	585
C/2014 W2	2016 03 16.74231	20 33 46.98	+66 00 40.0	14.1	N	585
C/2014 W2	2016 03 16.74303	20 33 46.98	+66 00 40.3	14.2	N	585
C/2014 W2	2016 03 16.74374	20 33 46.96	+66 00 40.6	14.2	N	585
C/2014 W2	2016 03 16.74444	20 33 46.96	+66 00 40.9	14.1	N	585
C/2014 W2	2016 03 16.74515	20 33 46.93	+66 00 41.1	14.2	N	585
C/2014 W2	2016 03 16.74586	20 33 46.93	+66 00 41.4	14.2	N	585
C/2014 W2	2016 03 16.74657	20 33 46.86	+66 00 41.6	14.2	N	585
C/2014 W2	2016 03 16.74728	20 33 46.89	+66 00 42.1	14.2	N	585
C/2014 W2	2016 03 16.74799	20 33 46.89	+66 00 42.1	14.2	N	585
C/2014 W2	2016 03 16.74869	20 33 46.80	+66 00 41.6	14.3	N	585
C/2014 W2	2016 03 16.74940	20 33 46.92	+66 00 41.9	14.4	N	585

C/2014 W2	2016 03 16.75011	20 33 46.90	+66 00 43.0	14.3	N	585
C/2014 W2	2016 03 16.75082	20 33 46.71	+66 00 42.5	14.4	N	585
C/2014 W2	2016 04 16.95691	19 53 50.74	+70 24 34.0	14.0	T	168
C/2014 W2	2016 04 16.95829	19 53 50.50	+70 24 34.8	14.0	T	168
C/2014 W2	2016 04 16.98468	19 53 46.27	+70 24 49.1	14.1	T	168
C/2014 W2	2016 04 16.98625	19 53 46.08	+70 24 49.7	13.9	T	168
C/2014 W2	2016 04 18.91189	19 48 29.18	+70 41 35.1			107
C/2014 W2	2016 04 18.93331	19 48 25.54	+70 41 46.1			107
C/2014 W2	2016 04 18.95616	19 48 21.56	+70 41 57.4			107
C/2014 W2	2016 04 19.93800	19 45 30.04	+70 50 15.0	14.9	N	K02
C/2014 W2	2016 04 19.94270	19 45 29.21	+70 50 17.4	14.9	N	K02
C/2014 W2	2016 04 19.94742	19 45 28.38	+70 50 19.9	14.9	N	K02
C/2014 W2	2016 04 20.10297	19 45 00.39	+70 51 39.5	14.8	N	C23
C/2014 W2	2016 04 20.10671	19 44 59.73	+70 51 41.4	14.8	N	C23
C/2014 W2	2016 04 20.11121	19 44 58.90	+70 51 43.7	14.8	N	C23
C/2014 W2	2016 04 20.86100	19 42 42.42	+70 57 52.8	15.2	N	L04
C/2014 W2	2016 04 20.86878	19 42 41.05	+70 57 56.6	15.2	N	L04
C/2014 W2	2016 04 20.87575	19 42 39.79	+70 58 00.3	15.2	N	L04
C/2014 W2	2016 04 20.88004	19 42 38.87	+70 58 01.8	15.3	N	C47
C/2014 W2	2016 04 20.88216	19 42 38.66	+70 58 03.3	15.2	N	L04
C/2014 W2	2016 04 20.88262	19 42 38.57	+70 58 03.1	16.1	N	C47
C/2014 W2	2016 04 20.88557	19 42 38.07	+70 58 04.5	16.4	N	C47
C/2014 W2	2016 04 20.88852	19 42 37.50	+70 58 06.3	16.3	N	C47
C/2014 W2	2016 04 20.89184	19 42 36.77	+70 58 07.9	16.3	N	C47
C/2014 W2	2016 04 20.89479	19 42 36.33	+70 58 09.3	16.1	N	C47
C/2014 W2	2016 04 20.89527	19 42 36.31	+70 58 10.2	15.1	N	L04
C/2014 W2	2016 04 20.89811	19 42 35.68	+70 58 11.0	16.2	N	C47
C/2014 W2	2016 04 23.98644	19 32 30.19	+71 22 14.5	14.4	N	I99
C/2014 W2	2016 04 23.98898	19 32 29.71	+71 22 15.6	14.4	N	I99
C/2014 W2	2016 04 23.99147	19 32 29.19	+71 22 16.7	14.4	N	I99
C/2014 W2	2016 04 24.90241	19 29 17.19	+71 28 50.4	16.2	N	C47
C/2014 W2	2016 04 24.90536	19 29 16.48	+71 28 52.2	16.3	N	C47
C/2014 W2	2016 04 24.90905	19 29 15.84	+71 28 53.6	16.3	N	C47
C/2014 W2	2016 04 24.91274	19 29 14.96	+71 28 55.0	16.4	N	C47
C/2014 W2	2016 04 24.91643	19 29 14.29	+71 28 57.1	16.3	N	C47
C/2014 W2	2016 04 24.92012	19 29 13.44	+71 28 58.2	16.3	N	C47
C/2014 W2	2016 04 25.89007	19 25 42.59	+71 35 40.2	14.5	N	C86
C/2014 W2	2016 04 25.89159	19 25 42.28	+71 35 40.8	14.5	N	C86
C/2014 W2	2016 04 25.89769	19 25 40.75	+71 35 43.3	14.5	N	C86
C/2014 W2	2016 04 27.04046	19 21 23.14	+71 43 13.4	14.7	N	I81
C/2014 W2	2016 04 27.04508	19 21 22.02	+71 43 15.1	14.5	N	I81
C/2014 W2	2016 04 27.05225	19 21 20.34	+71 43 17.9	14.6	N	I81
C/2014 W2	2016 04 27.37970	19 20 05.21	+71 45 22.3	16.3	N	12H06
C/2014 W2	2016 04 27.38216	19 20 04.57	+71 45 23.2	16.4	N	12H06
C/2014 W2	2016 04 27.97172	19 17 46.38	+71 48 56.4	14.8	N	I81
C/2014 W2	2016 04 27.97740	19 17 45.04	+71 48 58.5	14.6	N	I81
C/2014 W2	2016 04 27.98451	19 17 43.34	+71 49 01.1	14.6	N	I81
C/2014 W2	2016 04 28.72187	19 14 47.12	+71 53 20.4	13.4	N	G26
C/2014 W2	2016 04 28.74086	19 14 42.80	+71 53 26.4	13.7	N	G26
C/2014 W2	2016 04 28.92451	19 13 58.50	+71 54 25.8	15.0	N	C23
C/2014 W2	2016 04 28.93125	19 13 56.83	+71 54 28.1	14.8	N	C23
C/2014 W2	2016 04 28.93650	19 13 55.55	+71 54 30.0	14.8	N	C23
C/2014 W2	2016 04 29.11259	19 13 12.53	+71 55 30.5	15.4	N	B83
C/2014 W2	2016 04 29.12320	19 13 09.87	+71 55 34.1	14.9	N	B83
C/2014 W2	2016 04 29.14012	19 13 05.66	+71 55 39.6	14.9	N	B83
C/2014 W2	2016 04 29.95235	19 09 44.97	+71 59 55.1	14.6	N	I81
C/2014 W2	2016 04 29.96230	19 09 42.49	+71 59 58.2	14.6	N	I81
C/2014 W2	2016 04 29.96514	19 09 41.77	+71 59 59.2	14.6	N	I81
C/2014 W2	2016 04 29.97306	19 09 40.07	+72 00 01.9	14.9	N	K02
C/2014 W2	2016 04 29.97803	19 09 38.83	+72 00 03.5	15.0	N	K02
C/2014 W2	2016 04 29.98303	19 09 37.57	+72 00 05.1	14.9	N	K02
C/2014 W2	2016 05 01.02123	19 05 14.07	+72 05 07.4	14.9	N	C23
C/2014 W2	2016 05 01.02722	19 05 12.50	+72 05 09.1	14.9	N	C23
C/2014 W2	2016 05 01.03546	19 05 10.35	+72 05 11.4	14.8	N	C23
C/2014 W2	2016 05 01.14515	19 04 41.95	+72 05 42.7	14.4	N	J22
C/2014 W2	2016 05 01.14668	19 04 41.51	+72 05 43.0	14.4	N	J22
C/2014 W2	2016 05 01.14818	19 04 41.13	+72 05 43.9	14.4	N	J22
C/2014 W2	2016 05 01.90226	19 01 25.06	+72 08 56.6	14.8	N	C86
C/2014 W2	2016 05 01.90687	19 01 24.14	+72 08 59.2	14.8	N	C86
C/2014 W2	2016 05 03.00702	18 56 30.29	+72 13 14.3	15.2	N	KK61
C/2014 W2	2016 05 03.00742	18 56 30.20	+72 13 14.2	15.8	N	KK61
C/2014 W2	2016 05 03.00883	18 56 29.83	+72 13 14.5	15.6	N	KK61
C/2014 W2	2016 05 03.02157	18 56 26.36	+72 13 17.1	15.0	N	K02
C/2014 W2	2016 05 03.02639	18 56 25.04	+72 13 18.2	14.9	N	K02
C/2014 W2	2016 05 03.03081	18 56 23.85	+72 13 19.2	15.0	N	K02
C/2014 W2	2016 05 03.14120	18 55 53.74	+72 13 44.1	13.0	T	Z22
C/2014 W2	2016 05 03.14228	18 55 53.47	+72 13 44.1	13.0	T	Z22
C/2014 W2	2016 05 03.15234	18 55 50.48	+72 13 47.2	13.1	T	Z22
C/2014 W2	2016 05 03.16241	18 55 47.62	+72 13 50.0	13.0	T	Z22
C/2014 W2	2016 05 03.95061	18 52 12.64	+72 16 19.6	14.9	N	C23
C/2014 W2	2016 05 03.95286	18 52 12.03	+72 16 20.0	14.8	N	C23
C/2014 W2	2016 05 03.95511	18 52 11.47	+72 16 20.4	14.9	N	C23
C/2014 W2	2016 05 04.47678	18 49 46.63	+72 17 52.3	15.0	T	T05
C/2014 W2	2016 05 04.49132	18 49 42.48	+72 17 55.1	14.9	T	T05
C/2014 W2	2016 05 04.50409	18 49 38.85	+72 17 57.0	15.0	T	T05
C/2014 W2	2016 05 04.51384	18 49 36.11	+72 17 58.7	15.0	T	T05
C/2014 W2	2016 05 04.63544	18 49 02.18	+72 18 17.2			D81
C/2014 W2	2016 05 04.63603	18 49 02.04	+72 18 16.2			D81
C/2014 W2	2016 05 04.63662	18 49 01.88	+72 18 16.9			D81
C/2014 W2	2016 05 04.63727	18 49 01.63	+72 18 17.4	13.1	T	D81
C/2014 W2	2016 05 05.62796	18 44 21.62	+72 20 34.6			KD81
C/2014 W2	2016 05 05.63095	18 44 20.84	+72 20 34.9			KD81
C/2014 W2	2016 05 05.63391	18 44 19.96	+72 20 35.3			KD81
C/2014 W2	2016 05 05.63686	18 44 19.02	+72 20 36.1	13.1	T	KD81
C/2014 W2	2016 05 06.93784	18 38 03.34	+72 22 37.9	14.9	N	C23
C/2014 W2	2016 05 06.94233	18 38 01.98	+72 22 38.4	14.7	N	C23
C/2014 W2	2016 05 06.94758	18 38 00.48	+72 22 38.8	14.9	N	C23
C/2014 W2	2016 05 07.00286	18 37 44.25	+72 22 43.4	14.9	N	215
C/2014 W2	2016 05 07.00517	18 37 43.57	+72 22 43.6	15.0	N	215
C/2014 W2	2016 05 07.00774	18 37 42.81	+72 22 43.8	14.8	N	215
C/2014 W2	2016 05 07.92738	18 33 11.98	+72 23 27.6	15.0	N	A71
C/2014 W2	2016 05 07.94444	18 33 06.92	+72 23 28.2	15.0	N	A71
C/2014 W2	2016 05 07.96211	18 33 01.61	+72 23 28.9	14.9	N	A71
C/2014 W2	2016 05 08.95037	18 28 06.19	+72 23 35.6	14.9	N	A98
C/2014 W2	2016 05 08.95462	18 28 04.87	+72 23 36.4	14.7	N	A98
C/2014 W2	2016 05 08.95515	18 28 04.83	+72 23 37.1	14.6	N	A98

C/2014 W2	2016 05 08.95568	18 28 04.47	+72 23 36.1	14.5	N	A98
C/2014 W2	2016 05 08.96205	18 28 02.57	+72 23 36.1	14.6	N	A98
C/2014 W2	2016 05 08.96258	18 28 02.46	+72 23 35.8	14.7	N	A98
C/2014 W2	2016 05 08.96311	18 28 02.22	+72 23 36.0	14.5	N	A98
C/2014 W2	2016 05 08.97770	18 27 57.98	+72 23 35.3	15.5	N	K02
C/2014 W2	2016 05 08.98067	18 27 57.18	+72 23 35.3	15.5	N	K02
C/2014 W2	2016 05 08.98959	18 27 54.50	+72 23 35.2	15.2	N	K02
C/2014 W2	2016 05 09.01976	18 27 45.27	+72 23 35.1	14.7	N	C23
C/2014 W2	2016 05 09.02425	18 27 43.90	+72 23 35.0	14.9	N	C23
C/2014 W2	2016 05 09.02950	18 27 42.28	+72 23 35.0	14.7	N	C23
C/2014 W2	2016 05 09.12525	18 27 13.33	+72 23 31.8	15.5	N	750
C/2014 W2	2016 05 09.13699	18 27 10.15	+72 23 31.8	17.0	N	750
C/2014 W2	2016 05 09.82783	18 23 40.95	+72 23 06.1	16.1	N	C47
C/2014 W2	2016 05 09.83890	18 23 37.62	+72 23 05.5	16.3	N	C47
C/2014 W2	2016 05 09.84628	18 23 35.42	+72 23 05.2	16.2	N	C47
C/2014 W2	2016 05 10.02393	18 22 40.77	+72 22 55.9	14.5	N	I81
C/2014 W2	2016 05 10.02962	18 22 39.03	+72 22 55.6	14.5	N	I81
C/2014 W2	2016 05 10.03530	18 22 37.26	+72 22 55.4	14.4	N	I81
C/2014 W2	2016 05 10.65484	18 19 28.06	+72 22 10.8	13.4	N	G26
C/2014 W2	2016 05 10.67494	18 19 21.76	+72 22 08.4	13.2	N	G26
C/2014 W2	2016 05 10.97063	18 17 51.02	+72 21 38.2	14.5	N	I81
C/2014 W2	2016 05 10.97805	18 17 48.78	+72 21 37.9	14.9	N	I81
C/2014 W2	2016 05 10.98516	18 17 46.63	+72 21 37.1	14.9	N	I81
C/2014 W2	2016 05 11.73964	18 13 53.77	+72 20 08.0			K 367
C/2014 W2	2016 05 11.74086	18 13 53.37	+72 20 07.7			K 367
C/2014 W2	2016 05 11.74207	18 13 53.00	+72 20 07.6	12.7	T	K 367
C/2014 W2	2016 05 11.81014	18 13 32.36	+72 19 55.5	14.9	N	L22
C/2014 W2	2016 05 11.81226	18 13 31.72	+72 19 55.3	15.0	N	L22
C/2014 W2	2016 05 11.81439	18 13 31.05	+72 19 55.0	14.8	N	L22
C/2014 W2	2016 05 11.81650	18 13 30.46	+72 19 54.8	15.1	N	L22
C/2014 W2	2016 05 11.81863	18 13 29.78	+72 19 54.6	15.0	N	L22
C/2014 W2	2016 05 11.82076	18 13 29.06	+72 19 54.3	14.9	N	L22
C/2014 W2	2016 05 11.82288	18 13 28.44	+72 19 54.0	15.0	N	L22
C/2014 W2	2016 05 11.82501	18 13 27.74	+72 19 53.8	14.9	N	L22
C/2014 W2	2016 05 11.82713	18 13 27.13	+72 19 53.3	14.9	N	L22
C/2014 W2	2016 05 11.83160	18 13 25.72	+72 19 52.9	14.9	N	L22
C/2014 W2	2016 05 11.83372	18 13 25.12	+72 19 52.6	15.1	N	L22
C/2014 W2	2016 05 11.83584	18 13 24.44	+72 19 52.2	14.9	N	L22
C/2014 W2	2016 05 11.83796	18 13 23.76	+72 19 52.1	14.9	N	L22
C/2014 W2	2016 05 11.84008	18 13 23.08	+72 19 51.6	15.0	N	L22
C/2014 W2	2016 05 11.84221	18 13 22.43	+72 19 51.5	15.1	N	L22
C/2014 W2	2016 05 12.72708	18 08 47.25	+72 17 29.4	12.9	T	372
C/2014 W2	2016 05 12.73340	18 08 45.31	+72 17 28.3			372
C/2014 W2	2016 05 13.04845	18 07 07.15	+72 16 25.9	14.8	N	C23
C/2014 W2	2016 05 13.05294	18 07 05.73	+72 16 25.0	14.8	N	C23
C/2014 W2	2016 05 13.05819	18 07 04.10	+72 16 23.9	14.8	N	C23
C/2014 W2	2016 05 14.84289	17 57 46.28	+72 09 08.4	14.7	N	K14
C/2014 W2	2016 05 14.87313	17 57 36.54	+72 08 59.0	14.7	N	K14
C/2014 W2	2016 05 14.89053	17 57 31.27	+72 08 55.4	14.7	N	K14
C/2014 W2	2016 05 17.70340	17 42 49.99	+71 52 07.6	12.6	T	372
C/2014 W2	2016 05 17.75729	17 42 32.97	+71 51 44.5			372

P/2014 W4 (PANSTARRS)

P/2014 W4	2016 03 28.13316	06 39 48.55	+38 36 40.8			32H06
P/2014 W4	2016 03 28.13556	06 39 48.63	+38 36 40.2			32H06
P/2014 W4	2016 03 28.13796	06 39 48.71	+38 36 39.5	19.7	T	32H06
P/2014 W4	2016 04 29.91297	07 06 58.84	+36 42 07.5	19.6	T	K 215
P/2014 W4	2016 05 05.86952	07 13 06.53	+36 20 21.4	19.4	T	K 215
P/2014 W4	2016 05 05.87210	07 13 06.68	+36 20 20.9	19.4	T	K 215
P/2014 W4	2016 05 05.87454	07 13 06.83	+36 20 20.2	19.3	T	K 215

C/2014 W11 (PANSTARRS)

C/2014 W11	2016 04 05.02847	14 06 23.33	−30 09 03.7	15.3	N	K 585
C/2014 W11	2016 04 05.02917	14 06 23.34	−30 09 04.5	15.3	N	K 585
C/2014 W11	2016 04 05.02988	14 06 23.29	−30 09 03.5	15.2	N	K 585
C/2014 W11	2016 04 05.03059	14 06 23.31	−30 09 04.1	15.4	N	K 585
C/2014 W11	2016 04 05.03130	14 06 23.25	−30 09 03.4	15.4	N	K 585
C/2014 W11	2016 04 05.03200	14 06 23.23	−30 09 03.4	15.3	N	K 585
C/2014 W11	2016 04 05.03271	14 06 23.22	−30 09 03.1	15.2	N	K 585
C/2014 W11	2016 04 05.03342	14 06 23.17	−30 09 03.3	15.4	N	K 585
C/2014 W11	2016 04 05.59715	14 06 06.31	−30 08 28.2	15.4	T	D95
C/2014 W11	2016 04 05.60000	14 06 06.17	−30 08 27.6			D95
C/2014 W11	2016 04 05.60712	14 06 06.02	−30 08 27.2			D95
C/2014 W11	2016 04 21.55652	13 57 27.31	−29 35 26.0	15.5	N	Q68
C/2014 W11	2016 04 21.59379	13 57 26.05	−29 35 19.5	15.6	N	Q68
C/2014 W11	2016 05 01.74089	13 51 57.69	−29 00 31.9	15.5	N	Q68
C/2014 W11	2016 05 01.74542	13 51 57.56	−29 00 30.9	15.5	N	Q68
C/2014 W11	2016 05 02.61072	13 51 30.99	−28 57 14.0			K D81
C/2014 W11	2016 05 02.61371	13 51 30.89	−28 57 14.0	15.1	T	K D81
C/2014 W11	2016 05 03.42491	13 51 06.42	−28 54 02.8	16.0	T	T05
C/2014 W11	2016 05 03.43641	13 51 06.05	−28 54 00.0	16.0	T	T05
C/2014 W11	2016 05 03.44790	13 51 05.69	−28 53 57.5	16.0	T	T05
C/2014 W11	2016 05 03.45937	13 51 05.34	−28 53 54.9	16.0	T	T05
C/2014 W11	2016 05 04.43505	13 50 36.30	−28 50 01.4	15.5	N	32Q62
C/2014 W11	2016 05 04.45556	13 50 35.67	−28 49 56.8	15.5	N	32Q62
C/2014 W11	2016 05 06.37154	13 49 39.60	−28 42 12.3	16.0	T	T05
C/2014 W11	2016 05 06.38489	13 49 39.19	−28 42 09.1	16.1	T	T05
C/2014 W11	2016 05 06.39766	13 49 38.82	−28 42 06.2	16.1	T	T05
C/2014 W11	2016 05 06.41049	13 49 38.43	−28 42 02.9	16.0	T	T05
C/2014 W11	2016 05 12.02138	13 47 06.20	−28 18 24.4	15.4	N	J22
C/2014 W11	2016 05 12.02584	13 47 06.10	−28 18 23.3	15.4	N	J22
C/2014 W11	2016 05 12.03027	13 47 05.99	−28 18 21.8	15.4	N	J22
C/2014 W11	2016 05 12.34263	13 46 58.21	−28 16 58.8	16.0	T	T05
C/2014 W11	2016 05 12.36831	13 46 57.54	−28 16 52.4	16.0	T	T05
C/2014 W11	2016 05 12.37303	13 46 57.40	−28 16 51.3	16.1	T	T05
C/2014 W11	2016 05 12.38447	13 46 57.12	−28 16 48.2	16.0	T	T05
C/2014 W11	2016 05 12.53270	13 46 53.41	−28 16 11.0			K 367
C/2014 W11	2016 05 12.53391	13 46 53.40	−28 16 10.5			K 367
C/2014 W11	2016 05 12.53553	13 46 53.36	−28 16 10.1	14.4	T	K 367
C/2014 W11	2016 05 12.59963	13 46 51.69	−28 15 53.1			900
C/2014 W11	2016 05 12.60677	13 46 51.49	−28 15 51.3	14.4	T	900
C/2014 W11	2016 05 15.33307	13 45 45.964	−28 03 59.09	17.0	T	F51
C/2014 W11	2016 05 15.34322	13 45 45.723	−28 03 56.53	17.1	T	F51
C/2014 W11	2016 05 15.35296	13 45 45.473	−28 03 53.91	17.1	T	F51
C/2014 W11	2016 05 15.60769	13 45 39.55	−28 02 42.5	15.7	N	Q68

C/2014 W11	2016 05 15.63810	13 45 38.85	−28 02 33.4	15.7	N	Q68
C/2014 W11	2016 05 18.35018	13 44 39.65	−27 50 40.1	15.7	T	T05
C/2014 W11	2016 05 18.36646	13 44 39.29	−27 50 35.9	15.8	T	T05
C/2014 W11	2016 05 18.37469	13 44 39.08	−27 50 33.9	15.7	T	T05
C/2014 W11	2016 05 18.38453	13 44 38.87	−27 50 30.5	15.7	T	T05

C/2014 Y1 (PANSTARRS)

C/2014 Y1	2015 12 18.52412	13 57 08.51	−09 37 35.2			32H06
C/2014 Y1	2015 12 18.52572	13 57 08.69	−09 37 36.5			32H06
C/2014 Y1	2015 12 18.52731	13 57 08.87	−09 37 37.7	16.0	T	32H06
C/2014 Y1	2016 04 12.63764	16 38 40.09	−34 53 05.2			1 Q62
C/2014 Y1	2016 04 12.63959	16 38 40.07	−34 53 06.2			1 Q62
C/2014 Y1	2016 04 12.64154	16 38 40.08	−34 53 07.5	16.8	T	1 Q62
C/2014 Y1	2016 04 21.21813	16 38 59.29	−36 16 01.6			3W88
C/2014 Y1	2016 04 21.22671	16 38 59.19	−36 16 07.7	19.3	N	3W88

C/2015 B2 (PANSTARRS)

C/2015 B2	2016 02 07.55282	04 21 25.83	−59 17 38.8			1 Q62
C/2015 B2	2016 02 07.55578	04 21 25.34	−59 17 35.6	17.0	T	1 Q62

P/2015 B4 (Lemmon-PANSTARRS)

P/2015 B4	2016 04 27.92133	12 41 52.38	−06 42 31.0	19.6	T	K 215
P/2015 B4	2016 04 27.92391	12 41 52.36	−06 42 30.8	19.8	T	K 215
P/2015 B4	2016 04 27.92648	12 41 52.34	−06 42 30.4	19.6	T	K 215

C/2015 D3 (PANSTARRS)

C/2015 D3	2016 04 28.52504	10 06 17.81	+14 02 34.2	20.2	T	D29
C/2015 D3	2016 04 28.54271	10 06 17.50	+14 02 38.4	19.7	T	D29
C/2015 D3	2016 04 28.56039	10 06 17.19	+14 02 44.1	20.3	T	D29
C/2015 D3	2016 04 29.92201	10 05 56.31	+14 08 28.9	20.4	T	K 215
C/2015 D3	2016 04 29.92330	10 05 56.28	+14 08 29.3	20.1	T	K 215
C/2015 D3	2016 04 29.92459	10 05 56.28	+14 08 29.8	19.9	T	K 215
C/2015 D3	2016 05 11.85003	10 03 34.12	+14 54 06.9	19.9	T	K 461
C/2015 D3	2016 05 11.85764	10 03 34.04	+14 54 08.3	19.2	T	K 461

C/2015 ER$_{61}$ (PANSTARRS)

C/2015 ER$_{61}$	2016 04 05.01096	11 22 43.23	−03 09 25.1	16.8	N	585
C/2015 ER$_{61}$	2016 04 05.01167	11 22 43.20	−03 09 25.0	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.01237	11 22 43.10	−03 09 25.4	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.01308	11 22 43.15	−03 09 25.0	17.0	N	585
C/2015 ER$_{61}$	2016 04 05.01379	11 22 43.10	−03 09 24.2	16.8	N	585
C/2015 ER$_{61}$	2016 04 05.01449	11 22 43.03	−03 09 24.0	17.1	N	585
C/2015 ER$_{61}$	2016 04 05.01520	11 22 43.04	−03 09 23.9	17.3	N	585
C/2015 ER$_{61}$	2016 04 05.01662	11 22 43.04	−03 09 24.2	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.01806	11 22 42.93	−03 09 22.1	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.01877	11 22 42.88	−03 09 22.5	17.1	N	585
C/2015 ER$_{61}$	2016 04 05.01948	11 22 42.82	−03 09 21.8	17.1	N	585
C/2015 ER$_{61}$	2016 04 05.02089	11 22 42.84	−03 09 21.6	17.0	N	585
C/2015 ER$_{61}$	2016 04 05.02160	11 22 42.78	−03 09 21.3	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.02231	11 22 42.68	−03 09 21.6	16.9	N	585
C/2015 ER$_{61}$	2016 04 05.51905	11 22 25.64	−03 07 10.2	16.8	T	D95
C/2015 ER$_{61}$	2016 04 05.52658	11 22 25.37	−03 07 08.3			D95
C/2015 ER$_{61}$	2016 04 05.53413	11 22 25.11	−03 07 06.2			D95
C/2015 ER$_{61}$	2016 04 05.92039	11 22 11.74	−03 05 25.8	17.0	N	K 160
C/2015 ER$_{61}$	2016 04 05.92221	11 22 11.67	−03 05 25.2	17.2	N	K 160
C/2015 ER$_{61}$	2016 04 05.92389	11 22 11.63	−03 05 24.4	17.3	N	K 160
C/2015 ER$_{61}$	2016 04 06.95415	11 21 36.23	−03 00 51.2	17.1	N	K 160
C/2015 ER$_{61}$	2016 04 06.95608	11 21 36.19	−03 00 50.3	17.0	N	K 160
C/2015 ER$_{61}$	2016 04 11.19413	11 19 15.19	−02 42 17.8	17.4	T	G45
C/2015 ER$_{61}$	2016 04 11.19457	11 19 15.18	−02 42 17.6	17.5	T	G45
C/2015 ER$_{61}$	2016 04 11.19713	11 19 15.09	−02 42 16.9	17.3	T	G45
C/2015 ER$_{61}$	2016 04 11.20195	11 19 14.93	−02 42 15.4	17.3	T	G45
C/2015 ER$_{61}$	2016 04 11.20656	11 19 14.78	−02 42 14.3	17.2	T	G45
C/2015 ER$_{61}$	2016 04 11.21148	11 19 14.63	−02 42 13.2	17.2	T	G45
C/2015 ER$_{61}$	2016 04 11.21596	11 19 14.47	−02 42 11.9	17.2	T	G45
C/2015 ER$_{61}$	2016 04 21.41314	11 14 11.48	−01 59 27.0	17.0	N	K Q68
C/2015 ER$_{61}$	2016 04 21.41886	11 14 11.28	−01 59 27.1	17.1	T	T05
C/2015 ER$_{61}$	2016 04 21.43118	11 14 10.83	−01 59 24.9	17.2	T	T05
C/2015 ER$_{61}$	2016 04 21.44374	11 14 10.56	−01 59 22.2	17.1	T	T05
C/2015 ER$_{61}$	2016 04 21.45396	11 14 10.36	−01 59 17.2	17.1	N	K Q68
C/2015 ER$_{61}$	2016 04 21.45521	11 14 10.29	−01 59 19.5	16.9	T	T05
C/2015 ER$_{61}$	2016 04 24.37651	11 12 54.95	−01 47 47.5	16.7	T	Q60
C/2015 ER$_{61}$	2016 04 24.38623	11 12 54.74	−01 47 46.1	16.7	T	Q60
C/2015 ER$_{61}$	2016 04 24.39590	11 12 54.38	−01 47 43.6	16.9	T	Q60
C/2015 ER$_{61}$	2016 04 24.92315	11 12 41.43	−01 45 42.9	17.9	T	Y00
C/2015 ER$_{61}$	2016 04 24.93331	11 12 41.08	−01 45 39.9	18.1	T	Y00
C/2015 ER$_{61}$	2016 04 24.94375	11 12 40.76	−01 45 37.1	17.7	T	Y00
C/2015 ER$_{61}$	2016 04 25.851493	11 12 18.80	−01 42 12.4	16.9	T	K 130
C/2015 ER$_{61}$	2016 04 25.853021	11 12 18.77	−01 42 11.7	17.0	T	K 130
C/2015 ER$_{61}$	2016 04 25.854155	11 12 18.76	−01 42 12.0	16.7	T	K 130
C/2015 ER$_{61}$	2016 04 25.85545	11 12 18.69	−01 42 11.5	17.0	N	A71
C/2015 ER$_{61}$	2016 04 25.855683	11 12 18.73	−01 42 11.1	16.8	T	K 130
C/2015 ER$_{61}$	2016 04 25.85859	11 12 18.62	−01 42 10.8	17.1	N	A71
C/2015 ER$_{61}$	2016 04 25.86149	11 12 18.55	−01 42 10.1	17.1	N	A71
C/2015 ER$_{61}$	2016 04 25.95493	11 12 16.27	−01 41 48.2	17.1	N	K 160
C/2015 ER$_{61}$	2016 04 25.95670	11 12 16.22	−01 41 47.8	17.2	N	K 160
C/2015 ER$_{61}$	2016 04 25.95848	11 12 16.16	−01 41 47.8	17.3	N	K 160
C/2015 ER$_{61}$	2016 04 27.14678	11 11 48.43	−01 37 20.4	17.1	T	G45
C/2015 ER$_{61}$	2016 04 27.14988	11 11 48.35	−01 37 19.6	17.2	T	G45
C/2015 ER$_{61}$	2016 04 27.15412	11 11 48.25	−01 37 18.9	17.0	T	G45
C/2015 ER$_{61}$	2016 04 27.16234	11 11 48.06	−01 37 16.8	17.1	T	G45
C/2015 ER$_{61}$	2016 04 27.21285	11 11 46.89	−01 37 05.6			691
C/2015 ER$_{61}$	2016 04 27.22724	11 11 46.54	−01 37 02.4			691
C/2015 ER$_{61}$	2016 04 27.24170	11 11 46.20	−01 36 59.0			691
C/2015 ER$_{61}$	2016 04 27.37307	11 11 43.19	−01 36 29.8	17.1	T	T05
C/2015 ER$_{61}$	2016 04 27.38903	11 11 42.82	−01 36 26.1	17.2	T	T05
C/2015 ER$_{61}$	2016 04 27.40504	11 11 42.41	−01 36 23.1	17.1	T	T05
C/2015 ER$_{61}$	2016 04 27.42086	11 11 42.05	−01 36 19.2	17.0	T	T05
C/2015 ER$_{61}$	2016 04 29.36566	11 10 59.01	−01 29 13.6	17.4	T	T05
C/2015 ER$_{61}$	2016 04 29.38157	11 10 58.68	−01 29 10.0	17.4	T	T05
C/2015 ER$_{61}$	2016 04 29.39797	11 10 58.28	−01 29 06.6	17.3	T	T05
C/2015 ER$_{61}$	2016 04 29.41435	11 10 57.93	−01 29 02.9	17.4	T	T05
C/2015 ER$_{61}$	2016 04 29.82329	11 10 49.27	−01 27 37.0			246
C/2015 ER$_{61}$	2016 04 29.82375	11 10 49.27	−01 27 36.5			246
C/2015 ER$_{61}$	2016 04 29.82417	11 10 49.24	−01 27 36.6			246
C/2015 ER$_{61}$	2016 04 29.82457	11 10 49.24	−01 27 36.3			246
C/2015 ER$_{61}$	2016 04 29.82483	11 10 49.24	−01 27 36.5			246
C/2015 ER$_{61}$	2016 04 29.82514	11 10 49.23	−01 27 36.3			246

C/2015 ER_{61}	2016 04 29.82544	11 10 49.23	−01 27 36.1			246
C/2015 ER_{61}	2016 04 29.82578	11 10 49.22	−01 27 36.2			246
C/2015 ER_{61}	2016 04 30.50012	11 10 35.15	−01 25 11.8			K D88
C/2015 ER_{61}	2016 04 30.50807	11 10 34.96	−01 25 10.6	16.6	T	K D88
C/2015 ER_{61}	2016 04 30.57484	11 10 33.57	−01 24 56.1			900
C/2015 ER_{61}	2016 04 30.58198	11 10 33.41	−01 24 54.6	16.9	T	900
C/2015 ER_{61}	2016 05 01.37823	11 10 17.28	−01 22 07.6	17.4	T	T05
C/2015 ER_{61}	2016 05 01.39429	11 10 16.94	−01 22 04.5	17.4	T	T05
C/2015 ER_{61}	2016 05 01.40939	11 10 16.62	−01 22 01.7	17.5	T	T05
C/2015 ER_{61}	2016 05 01.42450	11 10 16.33	−01 21 58.9	17.3	T	T05
C/2015 ER_{61}	2016 05 01.43190	11 10 16.23	−01 21 54.7	17.0	N	Q68
C/2015 ER_{61}	2016 05 01.46561	11 10 15.57	−01 21 47.8	16.9	N	Q68
C/2015 ER_{61}	2016 05 01.48555	11 10 15.15	−01 21 43.9	17.0	N	Q68
C/2015 ER_{61}	2016 05 01.86014	11 10 07.75	−01 20 28.5	17.2	N	K Z78
C/2015 ER_{61}	2016 05 01.86383	11 10 07.67	−01 20 28.1	17.0	N	K Z78
C/2015 ER_{61}	2016 05 01.87037	11 10 07.53	−01 20 26.1	17.1	N	K Z78
C/2015 ER_{61}	2016 05 01.93301	11 10 06.33	−01 20 13.7	16.8	N	J22
C/2015 ER_{61}	2016 05 01.93745	11 10 06.26	−01 20 12.0	16.8	N	J22
C/2015 ER_{61}	2016 05 01.94186	11 10 06.19	−01 20 11.1	16.8	N	J22
C/2015 ER_{61}	2016 05 03.34220	11 09 39.46	−01 15 27.0	17.4	T	T05
C/2015 ER_{61}	2016 05 03.35429	11 09 39.23	−01 15 24.5	17.3	T	T05
C/2015 ER_{61}	2016 05 03.36620	11 09 38.96	−01 15 22.2	17.4	T	T05
C/2015 ER_{61}	2016 05 03.37808	11 09 38.77	−01 15 19.6	17.4	T	T05
C/2015 ER_{61}	2016 05 03.51069	11 09 36.38	−01 14 53.7	17.1	T	D29
C/2015 ER_{61}	2016 05 03.52571	11 09 36.09	−01 14 50.5	17.2	T	D29
C/2015 ER_{61}	2016 05 03.54074	11 09 35.80	−01 14 47.6	17.1	T	D29
C/2015 ER_{61}	2016 05 04.37074	11 09 20.86	−01 12 01.0	17.0	N	Q68
C/2015 ER_{61}	2016 05 04.40354	11 09 20.28	−01 11 54.5	17.0	N	Q68
C/2015 ER_{61}	2016 05 04.42707	11 09 19.82	−01 11 50.1	17.0	N	Q68
C/2015 ER_{61}	2016 05 04.92082	11 09 11.16	−01 10 16.1	17.2	T	9 G40
C/2015 ER_{61}	2016 05 04.92806	11 09 11.04	−01 10 14.7	17.1	T	9 G40
C/2015 ER_{61}	2016 05 05.17884	11 09 06.69	−01 09 26.3	17.4	T	V83
C/2015 ER_{61}	2016 05 05.18936	11 09 06.53	−01 09 24.2	17.0	T	V83
C/2015 ER_{61}	2016 05 05.19554	11 09 06.39	−01 09 23.1	16.7	T	V83
C/2015 ER_{61}	2016 05 05.20310	11 09 06.25	−01 09 21.9	16.9	T	V83
C/2015 ER_{61}	2016 05 05.21028	11 09 06.05	−01 09 20.3	18.5	T	V83
C/2015 ER_{61}	2016 05 05.21774	11 09 06.05	−01 09 19.3	17.1	T	V83
C/2015 ER_{61}	2016 05 05.22631	11 09 05.88	−01 09 16.4	15.9	T	V83
C/2015 ER_{61}	2016 05 05.23377	11 09 05.76	−01 09 15.3	16.0	T	V83
C/2015 ER_{61}	2016 05 05.40753	11 09 02.84	−01 08 40.3	17.0	N	Q68
C/2015 ER_{61}	2016 05 05.45072	11 09 02.10	−01 08 31.9	17.0	N	Q68
C/2015 ER_{61}	2016 05 05.47193	11 09 01.73	−01 08 27.6	17.0	N	Q68
C/2015 ER_{61}	2016 05 07.83025	11 08 24.05	−01 01 09.7	16.4	T	K 461
C/2015 ER_{61}	2016 05 07.83616	11 08 23.98	−01 01 08.6			K 461
C/2015 ER_{61}	2016 05 07.84206	11 08 23.89	−01 01 07.8			K 461
C/2015 ER_{61}	2016 05 07.85736	11 08 23.68	−01 01 04.5	17.2	N	A71
C/2015 ER_{61}	2016 05 07.86510	11 08 23.55	−01 01 03.2	17.2	N	A71
C/2015 ER_{61}	2016 05 10.12597	11 07 51.69	−00 54 23.5	17.0	T	G45
C/2015 ER_{61}	2016 05 10.13207	11 07 51.61	−00 54 22.6	17.0	T	G45
C/2015 ER_{61}	2016 05 10.13833	11 07 51.53	−00 54 21.6	16.9	T	G45
C/2015 ER_{61}	2016 05 10.13907	11 07 51.50	−00 54 21.4	17.0	T	G45
C/2015 ER_{61}	2016 05 10.15804	11 07 51.25	−00 54 18.3	17.0	T	G45
C/2015 ER_{61}	2016 05 11.95715	11 07 28.84	−00 49 17.3	16.8	N	J22
C/2015 ER_{61}	2016 05 11.95938	11 07 28.80	−00 49 16.5	16.8	N	J22
C/2015 ER_{61}	2016 05 11.96377	11 07 28.74	−00 49 15.8	16.8	N	J22
C/2015 ER_{61}	2016 05 13.36554	11 07 13.19	−00 45 29.8	17.0	N	Q68
C/2015 ER_{61}	2016 05 13.47755	11 07 11.96	−00 45 12.4	17.0	N	Q68
C/2015 ER_{61}	2016 05 13.50202	11 07 11.72	−00 45 08.0	17.0	N	Q68

P/2015 HG_{16} (PANSTARRS)

P/2015 HG_{16}	2016 04 09.56013	14 20 24.29	−01 16 38.9			1 Q62
P/2015 HG_{16}	2016 04 09.56348	14 20 24.15	−01 16 38.3			1 Q62
P/2015 HG_{16}	2016 04 09.56682	14 20 24.04	−01 16 38.6	21.5	T	1 Q62

C/2015 J1 (PANSTARRS)

C/2015 J1	2016 05 01.42431	14 39 38.942	−04 09 32.03	21.7	T	F51
C/2015 J1	2016 05 01.43699	14 39 38.563	−04 09 27.23	21.9	T	F51
C/2015 J1	2016 05 01.44969	14 39 38.179	−04 09 22.45	21.8	T	F51
C/2015 J1	2016 05 01.46240	14 39 37.769	−04 09 17.07	21.6	T	F51

C/2015 J2 (PANSTARRS)

C/2015 J2	2016 04 04.78427	20 32 02.15	−32 43 48.8			1 Q62
C/2015 J2	2016 04 04.78595	20 32 02.21	−32 43 48.6			1 Q62
C/2015 J2	2016 04 04.78763	20 32 02.25	−32 43 49.1	19.1	T	1 Q62
C/2015 J2	2016 04 19.79992	20 44 21.85	−33 02 29.2			1 Q62
C/2015 J2	2016 04 19.80160	20 44 21.95	−33 02 29.1			1 Q62
C/2015 J2	2016 04 19.80329	20 44 22.03	−33 02 29.2	19.3	T	1 Q62

C/2015 LC_2 (PANSTARRS)

C/2015 LC_2	2016 04 20.41729	15 09 35.51	+00 04 03.7	17.6	T	T05
C/2015 LC_2	2016 04 20.41932	15 09 35.33	+00 04 02.8	17.6	T	T05
C/2015 LC_2	2016 04 20.43191	15 09 35.00	+00 04 09.5	17.4	T	T05
C/2015 LC_2	2016 04 20.43389	15 09 34.93	+00 04 12.5	17.4	T	T05
C/2015 LC_2	2016 04 20.44630	15 09 34.48	+00 04 21.3	17.4	T	T05
C/2015 LC_2	2016 04 20.44828	15 09 34.41	+00 04 20.7	17.3	T	T05
C/2015 LC_2	2016 04 20.46068	15 09 34.00	+00 04 27.9	17.2	T	T05
C/2015 LC_2	2016 04 20.46266	15 09 33.97	+00 04 28.2	17.2	T	T05
C/2015 LC_2	2016 04 27.92885	15 05 13.96	+01 13 03.1	17.1	N	A71
C/2015 LC_2	2016 04 27.93248	15 05 13.81	+01 13 04.7	17.0	N	A71
C/2015 LC_2	2016 04 27.93608	15 05 13.70	+01 13 06.9	17.1	N	A71
C/2015 LC_2	2016 04 27.93968	15 05 13.53	+01 13 08.9	17.1	N	A71
C/2015 LC_2	2016 04 28.16567	15 05 05.60	+01 15 10.7	16.9	T	H15
C/2015 LC_2	2016 04 28.17528	15 05 05.25	+01 15 15.5	17.0	T	H15
C/2015 LC_2	2016 04 28.18994	15 05 04.72	+01 15 24.3	16.9	T	H15
C/2015 LC_2	2016 04 29.31126	15 04 24.81	+01 25 26.0	16.8	T	703
C/2015 LC_2	2016 04 29.31736	15 04 24.58	+01 25 28.7	16.6	T	703
C/2015 LC_2	2016 04 29.32347	15 04 24.38	+01 25 33.5	16.7	T	703
C/2015 LC_2	2016 04 29.32957	15 04 24.16	+01 25 36.9	16.8	T	703
C/2015 LC_2	2016 05 02.35464	15 02 36.13	+01 52 24.2	18.3	T	I41
C/2015 LC_2	2016 05 02.38425	15 02 35.06	+01 52 39.9	18.3	T	I41
C/2015 LC_2	2016 05 02.41411	15 02 33.96	+01 52 55.7	18.3	T	I41
C/2015 LC_2	2016 05 02.89808	15 02 16.67	+01 57 08.1	17.4	N	K K25
C/2015 LC_2	2016 05 02.90696	15 02 16.43	+01 57 13.5	17.5	N	K K25
C/2015 LC_2	2016 05 03.35180	15 02 00.39	+02 01 06.2	18.3	T	I41
C/2015 LC_2	2016 05 03.38165	15 01 59.31	+02 01 21.6	18.3	T	I41
C/2015 LC_2	2016 05 03.41157	15 01 58.21	+02 01 37.3	18.3	T	I41
C/2015 LC_2	2016 05 04.34640	15 01 24.73	+02 09 42.8	18.3	T	I41
C/2015 LC_2	2016 05 04.37617	15 01 23.65	+02 09 58.0	18.4	T	I41

C/2015 LC_2	2016 05 04.85943	15 01 06.41	+02 14 06.0	17.4	N	K K25
C/2015 LC_2	2016 05 04.86857	15 01 06.07	+02 14 11.4	17.3	N	K K25
C/2015 LC_2	2016 05 04.87772	15 01 05.73	+02 14 16.4	17.4	N	K K25
C/2015 LC_2	2016 05 04.96023	15 01 02.77	+02 14 57.8	16.8	N	C23
C/2015 LC_2	2016 05 04.96456	15 01 02.52	+02 14 59.7	16.9	N	C23
C/2015 LC_2	2016 05 04.97178	15 01 02.29	+02 15 04.2	17.2	N	C23
C/2015 LC_2	2016 05 05.55869	15 00 41.27	+02 20 05.0	17.4	N	K Q21
C/2015 LC_2	2016 05 05.56481	15 00 41.11	+02 20 10.4	17.4	N	K Q21
C/2015 LC_2	2016 05 05.90535	15 00 28.82	+02 23 02.1	17.1	N	K K61
C/2015 LC_2	2016 05 05.90655	15 00 28.81	+02 23 02.8	16.9	N	K K61
C/2015 LC_2	2016 05 06.01054	15 00 25.06	+02 23 57.1	17.4	T	J43
C/2015 LC_2	2016 05 06.02045	15 00 24.69	+02 24 02.1	17.2	T	J43
C/2015 LC_2	2016 05 06.03036	15 00 24.33	+02 24 07.2	17.4	T	J43
C/2015 LC_2	2016 05 06.04028	15 00 23.97	+02 24 12.1	17.3	T	J43
C/2015 LC_2	2016 05 06.94742	14 59 51.46	+02 31 52.0	17.4	N	A71
C/2015 LC_2	2016 05 06.95323	14 59 51.24	+02 31 55.4	17.6	N	A71
C/2015 LC_2	2016 05 06.95904	14 59 51.06	+02 31 58.0	17.5	N	A71
C/2015 LC_2	2016 05 10.28829	14 57 52.08	+02 59 34.4	16.4	T	703
C/2015 LC_2	2016 05 10.29533	14 57 51.85	+02 59 38.3	16.5	T	703
C/2015 LC_2	2016 05 10.30941	14 57 51.20	+02 59 48.0	16.5	T	703
C/2015 LC_2	2016 05 15.93928	14 54 33.15	+03 44 26.1	17.5	T	J43
C/2015 LC_2	2016 05 15.94646	14 54 32.91	+03 44 29.2	17.4	T	J43
C/2015 LC_2	2016 05 15.95366	14 54 32.65	+03 44 32.4	17.4	T	J43
C/2015 LC_2	2016 05 15.96086	14 54 32.40	+03 44 35.9	17.3	T	J43
C/2015 LC_2	2016 05 16.67690	14 54 07.55	+03 50 04.1	17.3	T	D29
C/2015 LC_2	2016 05 16.69516	14 54 06.90	+03 50 12.6	17.3	T	D29
C/2015 LC_2	2016 05 16.71343	14 54 06.29	+03 50 20.9	17.4	T	D29
C/2015 LC_2	2016 05 17.39519	14 53 42.78	+03 55 30.6	17.4	T	T05
C/2015 LC_2	2016 05 17.41693	14 53 42.01	+03 55 40.7	17.1	T	T05
C/2015 LC_2	2016 05 17.42660	14 53 41.74	+03 55 44.8	17.5	T	T05
C/2015 LC_2	2016 05 17.44021	14 53 41.17	+03 55 51.2	17.6	T	T05

C/2015 O1 (PANSTARRS)

C/2015 O1	2016 04 20.80891	20 23 50.78	−14 22 23.8			1 Q62
C/2015 O1	2016 04 20.81058	20 23 50.77	−14 22 23.4	17.3	T	1 Q62
C/2015 O1	2016 04 27.22073	20 22 51.42	−14 01 26.3	17.7	N	9 G40
C/2015 O1	2016 04 27.22730	20 22 51.36	−14 01 24.8	17.6	N	9 G40
C/2015 O1	2016 05 04.44075	20 21 10.64	−13 38 23.3	17.3	T	G45
C/2015 O1	2016 05 04.44627	20 21 10.54	−13 38 22.6	17.3	T	G45
C/2015 O1	2016 05 04.44641	20 21 10.54	−13 38 22.4	17.4	T	G45
C/2015 O1	2016 05 04.45182	20 21 10.46	−13 38 21.3	17.3	T	G45
C/2015 O1	2016 05 04.45751	20 21 10.33	−13 38 20.2	17.3	T	G45
C/2015 O1	2016 05 04.46306	20 21 10.23	−13 38 19.3	17.2	T	G45
C/2015 O1	2016 05 04.46313	20 21 10.24	−13 38 19.0	17.2	T	G45
C/2015 O1	2016 05 05.07715	20 20 59.95	−13 36 24.1	17.9	T	K 215
C/2015 O1	2016 05 05.07844	20 20 59.92	−13 36 23.8	17.9	T	K 215
C/2015 O1	2016 05 05.07972	20 20 59.91	−13 36 22.7	18.0	T	K 215
C/2015 O1	2016 05 05.44039	20 20 53.69	−13 35 15.4	17.3	T	G45
C/2015 O1	2016 05 05.44591	20 20 53.59	−13 35 14.3	17.2	T	G45
C/2015 O1	2016 05 05.45146	20 20 53.48	−13 35 12.8	17.2	T	G45
C/2015 O1	2016 05 05.46286	20 20 53.31	−13 35 10.9	17.3	T	G45
C/2015 O1	2016 05 06.44241	20 20 36.02	−13 32 07.6	17.2	T	G45
C/2015 O1	2016 05 06.44343	20 20 36.01	−13 32 08.0	17.1	T	G45
C/2015 O1	2016 05 06.44796	20 20 35.92	−13 32 07.0	17.3	T	G45
C/2015 O1	2016 05 06.45917	20 20 35.71	−13 32 04.9	17.1	T	G45
C/2015 O1	2016 05 06.46475	20 20 35.59	−13 32 03.5	17.3	T	G45
C/2015 O1	2016 05 07.44243	20 20 17.64	−13 29 01.4	17.3	T	G45
C/2015 O1	2016 05 07.44792	20 20 17.50	−13 29 00.7	17.4	T	G45
C/2015 O1	2016 05 07.45365	20 20 17.37	−13 28 58.9	17.4	T	G45
C/2015 O1	2016 05 07.45894	20 20 17.26	−13 28 58.3	17.2	T	G45
C/2015 O1	2016 05 08.43897	20 19 58.49	−13 25 56.2	17.2	T	G45
C/2015 O1	2016 05 08.44456	20 19 58.38	−13 25 55.4	17.3	T	G45
C/2015 O1	2016 05 08.45084	20 19 58.26	−13 25 54.0	17.3	T	G45
C/2015 O1	2016 05 08.45622	20 19 58.15	−13 25 52.9	17.4	T	G45
C/2015 O1	2016 05 08.46174	20 19 58.04	−13 25 52.4	17.4	T	G45
C/2015 O1	2016 05 12.05650	20 18 42.87	−13 14 51.8	18.2	T	K 461
C/2015 O1	2016 05 12.05961	20 18 42.78	−13 14 51.6	18.4	T	K 461
C/2015 O1	2016 05 12.06282	20 18 42.73	−13 14 50.9	18.3	T	K 461
C/2015 O1	2016 05 12.06613	20 18 42.63	−13 14 50.3			K 461

C/2015 T4 (PANSTARRS)

C/2015 T4	2016 01 12.44826	04 05 23.44	−25 56 37.5	15.7	T	372
C/2015 T4	2016 01 12.45764	04 05 22.72	−25 56 42.2			372
C/2015 T4	2016 04 28.70642	04 25 00.30	−31 45 16.7	15.1	T	K95
C/2015 T4	2016 04 28.71190	04 25 00.84	−31 45 18.8	15.0	T	K95
C/2015 T4	2016 04 28.71868	04 25 01.42	−31 45 21.8	15.0	T	K95
C/2015 T4	2016 05 04.35367	04 32 57.43	−32 28 01.2			1 Q62
C/2015 T4	2016 05 04.35536	04 32 57.58	−32 28 02.1			1 Q62
C/2015 T4	2016 05 04.35704	04 32 57.76	−32 28 03.0	14.9	T	1 Q62

C/2015 V1 (PANSTARRS)

C/2015 V1	2016 04 04.88968	04 25 23.74	+58 29 36.6	18.2	N	K 585
C/2015 V1	2016 04 04.89039	04 25 23.78	+58 29 36.0	18.5	N	K 585
C/2015 V1	2016 04 04.89110	04 25 23.81	+58 29 35.6	18.3	N	K 585
C/2015 V1	2016 04 04.89146	04 25 23.84	+58 29 35.2	18.4	N	K 585
C/2015 V1	2016 04 04.89216	04 25 23.83	+58 29 35.1	18.5	N	K 585
C/2015 V1	2016 04 04.89287	04 25 23.84	+58 29 35.0	18.3	N	K 585
C/2015 V1	2016 04 04.89358	04 25 23.83	+58 29 34.8	18.4	N	K 585
C/2015 V1	2016 04 04.89429	04 25 23.87	+58 29 34.6	18.5	N	K 585
C/2015 V1	2016 04 04.89500	04 25 23.87	+58 29 34.4	18.4	N	K 585
C/2015 V1	2016 04 04.89571	04 25 23.89	+58 29 34.1	18.5	N	K 585
C/2015 V1	2016 04 04.89641	04 25 23.88	+58 29 34.2	18.2	N	K 585
C/2015 V1	2016 04 04.89712	04 25 23.89	+58 29 33.7	18.3	N	K 585
C/2015 V1	2016 04 04.89783	04 25 23.93	+58 29 33.3	18.2	N	K 585
C/2015 V1	2016 04 04.89854	04 25 23.92	+58 29 32.9	18.3	N	K 585
C/2015 V1	2016 04 04.89925	04 25 23.94	+58 29 32.5	18.4	N	K 585
C/2015 V1	2016 04 04.89995	04 25 23.94	+58 29 32.5	18.5	N	K 585
C/2015 V1	2016 04 04.90066	04 25 23.99	+58 29 32.1	18.2	N	K 585

C/2015 V2 (Johnson)

C/2015 V2	2016 03 26.89366	06 42 24.40	+61 37 06.6	15.8	N	585
C/2015 V2	2016 03 26.89438	06 42 24.47	+61 37 06.7	15.2	T	585
C/2015 V2	2016 03 26.89474	06 42 24.59	+61 37 06.6	15.4	N	585
C/2015 V2	2016 03 26.89546	06 42 24.54	+61 37 06.8	15.2	T	585
C/2015 V2	2016 03 26.89582	06 42 24.48	+61 37 06.1	16.7	N	585
C/2015 V2	2016 03 26.89736	06 42 24.56	+61 37 05.6	15.2	T	585
C/2015 V2	2016 03 26.89808	06 42 24.59	+61 37 05.4	15.3	T	585

C/2015 V2	2016 03 26.89844	06 42 24.60	+61 37 05.3	15.5	N	585
C/2015 V2	2016 03 26.89880	06 42 24.58	+61 37 05.6	15.4	N	585
C/2015 V2	2016 03 26.89916	06 42 24.61	+61 37 05.6	15.4	N	585
C/2015 V2	2016 03 26.89988	06 42 24.56	+61 37 05.3	15.4	N	585
C/2015 V2	2016 03 26.90171	06 42 24.59	+61 37 04.1	15.6	N	585
C/2015 V2	2016 03 26.90388	06 42 24.65	+61 37 04.2	15.3	N	585
C/2015 V2	2016 03 27.94522	06 42 34.75	+61 32 22.1	15.7	N	585
C/2015 V2	2016 03 27.94594	06 42 34.77	+61 32 22.1	15.6	N	585
C/2015 V2	2016 03 27.94735	06 42 34.79	+61 32 21.5	15.6	N	585
C/2015 V2	2016 03 27.94806	06 42 34.84	+61 32 21.3	15.6	N	585
C/2015 V2	2016 03 27.94877	06 42 34.77	+61 32 21.2	15.7	N	585
C/2015 V2	2016 03 27.94948	06 42 34.81	+61 32 20.9	15.7	N	585
C/2015 V2	2016 03 27.95019	06 42 34.81	+61 32 20.9	15.8	N	585
C/2015 V2	2016 03 27.95090	06 42 34.79	+61 32 20.7	15.8	N	585
C/2015 V2	2016 03 27.95160	06 42 34.83	+61 32 20.3	15.6	N	585
C/2015 V2	2016 03 27.95373	06 42 34.84	+61 32 19.8	15.6	N	585
C/2015 V2	2016 03 27.95586	06 42 34.93	+61 32 18.9	15.7	N	585
C/2015 V2	2016 03 27.95727	06 42 34.90	+61 32 18.7	15.5	N	585
C/2015 V2	2016 03 27.95798	06 42 34.92	+61 32 18.4	15.6	N	585
C/2015 V2	2016 03 30.02627	06 43 00.24	+61 22 56.9	16.2	N	14G40
C/2015 V2	2016 03 30.03676	06 43 00.40	+61 22 54.1	16.7	N	14G40
C/2015 V2	2016 04 16.93046	06 51 01.73	+60 01 47.5	15.6	T	168
C/2015 V2	2016 04 16.93399	06 51 01.85	+60 01 46.5	15.5	T	168
C/2015 V2	2016 04 16.96055	06 51 02.85	+60 01 39.4	15.6	T	168
C/2015 V2	2016 04 16.96321	06 51 03.00	+60 01 38.8	15.5	T	168
C/2015 V2	2016 04 18.81049	06 52 17.12	+59 53 27.1			107
C/2015 V2	2016 04 18.83049	06 52 17.92	+59 53 21.4			107
C/2015 V2	2016 04 18.85477	06 52 19.01	+59 53 14.3			107
C/2015 V2	2016 04 19.90885	06 53 03.15	+59 48 34.9	15.5	N	J22
C/2015 V2	2016 04 19.91427	06 53 03.39	+59 48 32.7	15.5	N	J22
C/2015 V2	2016 04 19.91922	06 53 03.66	+59 48 32.0	15.5	N	J22
C/2015 V2	2016 04 19.92422	06 53 03.87	+59 48 30.2	15.7	N	K02
C/2015 V2	2016 04 19.92875	06 53 04.04	+59 48 28.8	15.6	N	K02
C/2015 V2	2016 04 19.93319	06 53 04.24	+59 48 27.8	16.2	N	K02
C/2015 V2	2016 04 20.83891	06 53 43.26	+59 44 28.1	17.1	N	K C47
C/2015 V2	2016 04 20.84223	06 53 43.45	+59 44 26.2	16.4	N	K C47
C/2015 V2	2016 04 20.84629	06 53 43.65	+59 44 25.8	16.8	N	K C47
C/2015 V2	2016 04 20.85035	06 53 43.84	+59 44 24.6	16.1	N	K C47
C/2015 V2	2016 04 20.85404	06 53 43.99	+59 44 23.2	16.7	N	K C47
C/2015 V2	2016 04 20.85847	06 53 44.18	+59 44 22.1	15.6	N	K C47
C/2015 V2	2016 04 23.88618	06 56 01.96	+59 31 04.1	16.1	N	9 G40
C/2015 V2	2016 04 23.91589	06 56 03.31	+59 30 56.3	16.0	N	9 G40
C/2015 V2	2016 04 23.94545	06 56 04.72	+59 30 48.2	16.1	N	9 G40
C/2015 V2	2016 04 24.08752	06 56 11.50	+59 30 11.4	15.7	N	H45
C/2015 V2	2016 04 24.09003	06 56 11.62	+59 30 10.6	15.6	N	H45
C/2015 V2	2016 04 24.09159	06 56 11.70	+59 30 10.2	15.6	N	H45
C/2015 V2	2016 04 24.09275	06 56 11.76	+59 30 09.9	15.6	N	H45
C/2015 V2	2016 04 24.09385	06 56 11.80	+59 30 09.7	15.6	N	H45
C/2015 V2	2016 04 25.84079	06 57 36.68	+59 22 31.0	14.9	N	C35
C/2015 V2	2016 04 25.84281	06 57 36.61	+59 22 31.0	15.0	N	C35
C/2015 V2	2016 04 25.84358	06 57 36.53	+59 22 31.9	14.9	N	C35
C/2015 V2	2016 04 26.97913	06 58 33.47	+59 17 34.4	15.6	N	I81
C/2015 V2	2016 04 26.98624	06 58 33.83	+59 17 32.5	15.6	N	I81
C/2015 V2	2016 04 26.99193	06 58 34.12	+59 17 31.0	15.6	N	I81
C/2015 V2	2016 04 27.86758	06 59 18.87	+59 13 44.5	15.5	N	585
C/2015 V2	2016 04 27.86829	06 59 18.90	+59 13 44.2	15.4	N	585
C/2015 V2	2016 04 27.86899	06 59 18.95	+59 13 44.0	15.4	N	585
C/2015 V2	2016 04 27.86970	06 59 18.98	+59 13 43.7	15.4	N	585
C/2015 V2	2016 04 27.87041	06 59 19.00	+59 13 43.7	15.5	N	585
C/2015 V2	2016 04 27.87112	06 59 19.06	+59 13 43.3	15.4	N	585
C/2015 V2	2016 04 27.87183	06 59 19.09	+59 13 43.3	15.5	N	585
C/2015 V2	2016 04 27.87253	06 59 19.12	+59 13 43.1	15.5	N	585
C/2015 V2	2016 04 27.87324	06 59 19.13	+59 13 42.6	15.4	N	585
C/2015 V2	2016 04 27.87395	06 59 19.21	+59 13 42.8	15.5	N	585
C/2015 V2	2016 04 27.87466	06 59 19.24	+59 13 42.5	15.5	N	585
C/2015 V2	2016 04 28.07789	06 59 29.88	+59 12 49.1	15.2	N	I81
C/2015 V2	2016 04 28.08358	06 59 30.14	+59 12 47.9	15.5	N	I81
C/2015 V2	2016 04 28.08926	06 59 30.39	+59 12 46.5	15.4	N	I81
C/2015 V2	2016 04 28.88822	07 00 12.18	+59 09 19.8	15.7	N	C23
C/2015 V2	2016 04 28.89046	07 00 12.32	+59 09 19.3	15.8	N	C23
C/2015 V2	2016 04 28.89421	07 00 12.46	+59 09 18.0	15.5	N	C23
C/2015 V2	2016 04 29.93228	07 01 07.79	+59 04 50.2	15.6	N	K02
C/2015 V2	2016 04 29.93523	07 01 07.95	+59 04 49.5	15.7	N	K02
C/2015 V2	2016 04 29.94020	07 01 08.21	+59 04 48.2	15.7	N	K02
C/2015 V2	2016 04 30.46321	07 01 36.51	+59 02 34.3			K D88
C/2015 V2	2016 04 30.46639	07 01 36.67	+59 02 33.4	15.4	T	K D88
C/2015 V2	2016 04 30.52137	07 01 39.66	+59 02 19.2			900
C/2015 V2	2016 04 30.52851	07 01 40.04	+59 02 17.2	15.5	T	900
C/2015 V2	2016 04 30.88448	07 01 59.47	+59 00 45.5	15.4	N	I72
C/2015 V2	2016 04 30.92243	07 02 01.61	+59 00 35.9	15.4	N	I72
C/2015 V2	2016 04 30.95365	07 02 03.36	+59 00 27.6	15.6	N	K02
C/2015 V2	2016 04 30.95808	07 02 03.59	+59 00 26.7	15.7	N	K02
C/2015 V2	2016 04 30.96078	07 02 03.76	+59 00 26.4	15.4	N	I72
C/2015 V2	2016 04 30.96250	07 02 03.82	+59 00 25.5	15.9	N	K02
C/2015 V2	2016 05 01.86551	07 02 53.94	+58 56 34.9	15.3	N	C86
C/2015 V2	2016 05 01.86819	07 02 53.98	+58 56 34.4	15.4	N	C86
C/2015 V2	2016 05 01.87358	07 02 54.21	+58 56 32.8	15.3	N	C86
C/2015 V2	2016 05 02.90181	07 03 52.25	+58 52 09.4	15.3	N	I72
C/2015 V2	2016 05 02.91800	07 03 53.17	+58 52 05.3	15.4	N	I72
C/2015 V2	2016 05 02.95015	07 03 54.90	+58 51 57.0	14.7	N	I72
C/2015 V2	2016 05 02.99954	07 03 57.87	+58 51 43.9	15.9	N	K K61
C/2015 V2	2016 05 03.00035	07 03 57.91	+58 51 43.5	16.5	N	K K61
C/2015 V2	2016 05 03.00096	07 03 57.96	+58 51 44.6	16.9	N	K K61
C/2015 V2	2016 05 03.89246	07 04 49.16	+58 47 57.3	15.3	N	I72
C/2015 V2	2016 05 03.91642	07 04 50.54	+58 47 50.7	15.8	N	K14
C/2015 V2	2016 05 03.92482	07 04 51.03	+58 47 48.7	15.4	N	I72
C/2015 V2	2016 05 03.93201	07 04 51.43	+58 47 46.8	15.7	N	K14
C/2015 V2	2016 05 03.95522	07 04 52.79	+58 47 40.9	15.3	N	I72
C/2015 V2	2016 05 04.23420	07 05 08.92	+58 46 31.7	16.0	T	T05
C/2015 V2	2016 05 04.23808	07 05 09.24	+58 46 29.6	16.0	T	T05
C/2015 V2	2016 05 04.24735	07 05 09.77	+58 46 27.5	16.0	T	T05
C/2015 V2	2016 05 04.25670	07 05 10.36	+58 46 24.9	16.0	T	T05
C/2015 V2	2016 05 04.87593	07 05 46.61	+58 43 47.8	15.3	N	Z39
C/2015 V2	2016 05 04.89403	07 05 47.65	+58 43 43.1	15.3	N	Z39
C/2015 V2	2016 05 04.91014	07 05 48.62	+58 43 38.8	15.3	N	Z39
C/2015 V2	2016 05 05.52079	07 06 24.77	+58 41 05.3			K D81

C/2015 V2	2016 05 05.52676	07 06 25.12	+58 41 03.1			K D81
C/2015 V2	2016 05 05.53271	07 06 25.54	+58 41 01.8			K D81
C/2015 V2	2016 05 05.53864	07 06 25.84	+58 41 00.0	15.8	T	K D81
C/2015 V2	2016 05 06.83553	07 07 43.78	+58 35 31.3	16.6	N	C47
C/2015 V2	2016 05 06.83959	07 07 44.24	+58 35 31.7	16.6	N	C47
C/2015 V2	2016 05 06.84364	07 07 44.38	+58 35 30.4	16.5	N	C47
C/2015 V2	2016 05 06.84770	07 07 44.58	+58 35 29.3	16.5	N	C47
C/2015 V2	2016 05 06.85123	07 07 44.90	+58 35 28.2	15.4	N	C23
C/2015 V2	2016 05 06.85176	07 07 44.85	+58 35 28.3	17.2	N	C47
C/2015 V2	2016 05 06.85585	07 07 45.20	+58 35 27.4	15.6	N	C23
C/2015 V2	2016 05 06.86035	07 07 45.44	+58 35 26.3	15.6	N	C23
C/2015 V2	2016 05 08.95700	07 09 55.08	+58 26 39.6	15.7	N	K02
C/2015 V2	2016 05 08.96144	07 09 55.29	+58 26 38.7	16.3	N	K02
C/2015 V2	2016 05 08.96582	07 09 55.63	+58 26 37.7	15.9	N	K02
C/2015 V2	2016 05 11.72398	07 12 52.32	+58 15 11.7	15.7	T	C41
C/2015 V2	2016 05 11.72817	07 12 52.60	+58 15 10.5	15.6	T	C41
C/2015 V2	2016 05 11.73238	07 12 52.96	+58 15 09.6	15.5	T	C41
C/2015 V2	2016 05 12.48381	07 13 42.26	+58 12 04.0			900
C/2015 V2	2016 05 12.49096	07 13 42.71	+58 12 02.1	15.5	T	900
C/2015 V2	2016 05 12.49821	07 13 43.18	+58 12 00.1			K 367
C/2015 V2	2016 05 12.49983	07 13 43.30	+58 11 59.8			K 367
C/2015 V2	2016 05 12.50104	07 13 43.37	+58 11 59.5	15.4	T	K 367
C/2015 V2	2016 05 12.86917	07 14 07.74	+58 10 29.5	15.4	N	Z39
C/2015 V2	2016 05 12.88726	07 14 08.88	+58 10 24.7	15.4	N	Z39
C/2015 V2	2016 05 12.90170	07 14 09.84	+58 10 22.0	15.5	N	Z39
C/2015 V2	2016 05 15.84267	07 17 28.91	+57 58 18.5	16.4	N	K14
C/2015 V2	2016 05 15.87844	07 17 31.10	+57 58 09.5	16.2	N	K14
C/2015 V2	2016 05 16.93691	07 18 44.70	+57 53 51.1	15.6	N	K02
C/2015 V2	2016 05 16.94152	07 18 45.00	+57 53 50.0	16.2	N	K02
C/2015 V2	2016 05 16.94625	07 18 45.39	+57 53 48.9	15.7	N	K02
C/2015 V2	2016 05 17.86747	07 19 49.94	+57 50 05.1	15.4	N	K K10
C/2015 V2	2016 05 17.87672	07 19 50.60	+57 50 03.0	15.5	N	K K10
C/2015 V2	2016 05 17.88594	07 19 51.29	+57 50 00.4	15.5	N	K K10

C/2015 V3 (PANSTARRS)

C/2015 V3	2015 12 04.46099	23 16 11.12	−02 00 27.6			1 Q62
C/2015 V3	2015 12 04.46349	23 16 11.10	−02 00 26.6	18.6	T	1 Q62

C/2015 V4 (PANSTARRS)

C/2015 V4	2015 12 04.55646	07 22 50.60	−44 24 10.1			1 Q62
C/2015 V4	2015 12 04.55849	07 22 50.52	−44 24 10.6			1 Q62
C/2015 V4	2015 12 04.56052	07 22 50.44	−44 24 10.8	19.7	T	1 Q62
C/2015 V4	2016 05 03.32339	07 16 54.57	−29 24 12.4	19.7	N	K 474
C/2015 V4	2016 05 03.32691	07 16 54.69	−29 24 10.6	19.5	N	K 474
C/2015 V4	2016 05 03.33043	07 16 54.80	−29 24 09.5	19.7	N	K 474
C/2015 V4	2016 05 03.33394	07 16 54.98	−29 24 06.8	19.4	N	K 474

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

C/2015 VL_{62}	2016 03 05.09539	03 07 28.98	+25 35 00.9			32H06
C/2015 VL_{62}	2016 03 05.10057	03 07 28.96	+25 35 00.4	18.9	T	32H06

C/2015 WZ (PANSTARRS)

C/2015 WZ	2015 11 29.47612	02 41 04.96	−00 49 50.1			1 Q62
C/2015 WZ	2015 11 29.47979	02 41 04.02	−00 49 49.3			1 Q62
C/2015 WZ	2015 11 29.48345	02 41 03.14	−00 49 48.5	20.3	T	1 Q62
C/2015 WZ	2016 04 20.45727	23 25 48.91	+26 22 04.3	14.2	T	Y H06
C/2015 WZ	2016 04 20.45970	23 25 48.77	+26 22 07.7	14.1	T	Y H06
C/2015 WZ	2016 04 20.46209	23 25 48.65	+26 22 11.0	14.1	T	Y H06
C/2015 WZ	2016 04 22.45030	23 24 07.63	+27 04 34.4	14.2	T	Y H06
C/2015 WZ	2016 04 22.45269	23 24 07.54	+27 04 37.5	14.2	T	Y H06
C/2015 WZ	2016 04 24.47181	23 22 16.76	+27 49 11.6			32H06
C/2015 WZ	2016 04 24.47341	23 22 16.66	+27 49 13.8			32H06
C/2015 WZ	2016 04 24.47500	23 22 16.53	+27 49 15.8	13.3	T	32H06
C/2015 WZ	2016 04 29.73719	23 16 41.96	+29 53 07.4	13.4	T	349
C/2015 WZ	2016 04 29.74388	23 16 41.49	+29 53 17.2			349
C/2015 WZ	2016 04 29.75054	23 16 41.00	+29 53 27.3			349
C/2015 WZ	2016 05 02.09020	23 13 46.79	+30 52 28.0	16.3	N	K A77
C/2015 WZ	2016 05 02.09772	23 13 46.14	+30 52 39.7	16.2	N	K A77
C/2015 WZ	2016 05 02.10524	23 13 45.52	+30 52 52.7	16.4	N	K A77
C/2015 WZ	2016 05 02.11277	23 13 45.03	+30 53 03.2	16.4	N	K A77
C/2015 WZ	2016 05 02.12030	23 13 44.37	+30 53 15.7	12.2	T	K A77
C/2015 WZ	2016 05 02.49112	23 13 15.24	+31 02 51.9			5 U69
C/2015 WZ	2016 05 02.49248	23 13 15.14	+31 02 53.8			5 U69
C/2015 WZ	2016 05 02.49396	23 13 15.01	+31 02 56.6	12.5	T	5 U69
C/2015 WZ	2016 05 03.03980	23 12 30.93	+31 17 09.0	16.7	N	K K61
C/2015 WZ	2016 05 03.04040	23 12 30.87	+31 17 09.9	16.4	N	K K61
C/2015 WZ	2016 05 03.07789	23 12 27.84	+31 18 09.8	15.5	N	K02
C/2015 WZ	2016 05 03.08251	23 12 27.50	+31 18 16.5	16.4	N	K02
C/2015 WZ	2016 05 03.08694	23 12 27.11	+31 18 23.7	16.1	N	K02
C/2015 WZ	2016 05 03.16931	23 12 20.46	+31 20 35.9	16.0	N	9 G40
C/2015 WZ	2016 05 03.17524	23 12 19.97	+31 20 44.9	16.1	N	9 G40
C/2015 WZ	2016 05 03.18208	23 12 19.43	+31 20 55.9	16.1	N	9 G40
C/2015 WZ	2016 05 04.06042	23 11 05.76	+31 44 12.2	15.8	N	C23
C/2015 WZ	2016 05 04.06716	23 11 05.15	+31 44 23.1	15.3	N	C23
C/2015 WZ	2016 05 04.07465	23 11 04.47	+31 44 35.4	15.2	N	C23
C/2015 WZ	2016 05 04.44014	23 10 33.26	+31 54 26.2	16.2	N	WH06
C/2015 WZ	2016 05 04.44096	23 10 33.12	+31 54 27.3	16.0	N	WH06
C/2015 WZ	2016 05 04.44179	23 10 33.05	+31 54 28.9	16.0	N	WH06
C/2015 WZ	2016 05 04.44260	23 10 32.92	+31 54 30.4	15.9	N	WH06
C/2015 WZ	2016 05 04.44341	23 10 32.97	+31 54 32.0	16.0	N	WH06
C/2015 WZ	2016 05 05.06914	23 09 37.72	+32 11 28.1	16.3	N	K 215
C/2015 WZ	2016 05 05.07043	23 09 37.59	+32 11 30.2	16.4	N	K 215
C/2015 WZ	2016 05 05.07171	23 09 37.46	+32 11 32.3	16.4	N	K 215
C/2015 WZ	2016 05 05.10249	23 09 34.52	+32 12 24.4	16.4	N	K A77
C/2015 WZ	2016 05 05.10655	23 09 34.19	+32 12 29.4	16.2	N	K A77
C/2015 WZ	2016 05 05.11218	23 09 33.84	+32 12 39.2	16.7	N	K A77
C/2015 WZ	2016 05 05.11947	23 09 33.07	+32 12 52.0	16.8	N	K A77
C/2015 WZ	2016 05 05.12411	23 09 32.84	+32 12 58.7	16.7	N	K A77
C/2015 WZ	2016 05 05.12904	23 09 32.29	+32 13 07.3	13.0	T	K A77
C/2015 WZ	2016 05 06.00385	23 08 12.32	+32 37 10.0	14.9	N	C36
C/2015 WZ	2016 05 06.00472	23 08 12.21	+32 37 12.9	14.7	N	C36
C/2015 WZ	2016 05 06.00560	23 08 12.04	+32 37 13.9	14.8	N	C36
C/2015 WZ	2016 05 06.04477	23 08 08.51	+32 38 19.9	16.0	N	C23
C/2015 WZ	2016 05 06.05001	23 08 08.10	+32 38 26.9	16.1	N	C23
C/2015 WZ	2016 05 06.05975	23 08 07.09	+32 38 43.3	16.6	N	C23
C/2015 WZ	2016 05 06.07847	23 08 05.34	+32 39 14.8	15.7	N	C23
C/2015 WZ	2016 05 06.08447	23 08 04.84	+32 39 25.8	16.2	N	C23
C/2015 WZ	2016 05 06.09271	23 08 04.02	+32 39 38.7	16.2	N	C23

C/2015 WZ	2016 05 07.06397	23 06 31.07	+33 06 54.6	16.8	N	A71
C/2015 WZ	2016 05 07.07146	23 06 30.40	+33 07 07.7	16.6	N	A71
C/2015 WZ	2016 05 07.08076	23 06 29.46	+33 07 23.4	16.5	N	A71
C/2015 WZ	2016 05 07.72328	23 05 25.45	+33 25 42.4		K	D81
C/2015 WZ	2016 05 07.72477	23 05 25.38	+33 25 43.8		K	D81
C/2015 WZ	2016 05 07.73363	23 05 24.52	+33 25 59.7	12.8	T	K D81
C/2015 WZ	2016 05 08.04230	23 04 53.08	+33 34 53.4	16.9	N	A71
C/2015 WZ	2016 05 08.05506	23 04 51.77	+33 35 14.3	15.8	N	C10
C/2015 WZ	2016 05 08.05534	23 04 51.68	+33 35 15.1	16.9	N	A71
C/2015 WZ	2016 05 08.06000	23 04 51.30	+33 35 23.9	16.5	N	461
C/2015 WZ	2016 05 08.06151	23 04 51.13	+33 35 26.9	16.7	N	461
C/2015 WZ	2016 05 08.06429	23 04 50.85	+33 35 31.7	16.3	N	461
C/2015 WZ	2016 05 08.06574	23 04 50.77	+33 35 32.6	15.9	N	C10
C/2015 WZ	2016 05 08.07023	23 04 50.23	+33 35 41.8	16.9	N	A71
C/2015 WZ	2016 05 08.07465	23 04 49.77	+33 35 47.5	15.9	N	C10
C/2015 WZ	2016 05 08.08410	23 04 48.75	+33 36 04.9	15.9	N	C10
C/2015 WZ	2016 05 08.73151	23 03 41.33	+33 54 54.2	13.3	T	D95
C/2015 WZ	2016 05 08.73370	23 03 41.07	+33 54 58.1			D95
C/2015 WZ	2016 05 08.73734	23 03 40.71	+33 55 04.7			D95
C/2015 WZ	2016 05 09.06194	23 03 05.95	+34 04 34.3	15.8	N	C23
C/2015 WZ	2016 05 09.07018	23 03 05.14	+34 04 49.4	16.5	N	C23
C/2015 WZ	2016 05 09.07992	23 03 04.01	+34 05 06.0	15.9	N	C23
C/2015 WZ	2016 05 11.75041	22 57 57.32	+35 25 42.6			K 367
C/2015 WZ	2016 05 11.75324	22 57 56.95	+35 25 48.0			K 367
C/2015 WZ	2016 05 11.75608	22 57 56.62	+35 25 53.0	12.9	T	K 367
C/2015 WZ	2016 05 12.71451	22 55 56.38	+35 55 48.0	13.5	T	372
C/2015 WZ	2016 05 12.72017	22 55 55.65	+35 55 58.1			372
C/2015 WZ	2016 05 12.72967	22 55 54.42	+35 56 15.5			D95
C/2015 WZ	2016 05 12.73113	22 55 54.23	+35 56 18.5			D95
C/2015 WZ	2016 05 12.73916	22 55 53.20	+35 56 33.8	12.2	T	D95
C/2015 WZ	2016 05 13.05961	22 55 11.60	+36 06 39.5	16.4	N	C23
C/2015 WZ	2016 05 13.06711	22 55 10.47	+36 06 54.2	15.5	N	C23
C/2015 WZ	2016 05 13.07385	22 55 09.66	+36 07 06.5	16.1	N	C23
C/2015 WZ	2016 05 14.10163	22 52 51.73	+36 40 02.6	15.1	N	K A77
C/2015 WZ	2016 05 14.10916	22 52 50.57	+36 40 16.6	15.5	N	K A77
C/2015 WZ	2016 05 14.11745	22 52 49.43	+36 40 32.9	15.2	N	K A77
C/2015 WZ	2016 05 19.57363	22 38 21.61	+39 45 09.0	16.4	T	T05
C/2015 WZ	2016 05 19.57606	22 38 21.17	+39 45 13.9	16.2	T	T05
C/2015 WZ	2016 05 19.58680	22 38 19.13	+39 45 36.8	16.3	T	T05
C/2015 WZ	2016 05 19.59469	22 38 17.75	+39 45 54.5	16.3	T	T05
C/2015 WZ	2016 05 19.59664	22 38 17.46	+39 45 58.6	16.3	T	T05
C/2015 WZ	2016 05 19.60250	22 38 16.33	+39 46 11.1	16.5	T	T05
C/2015 WZ	2016 05 19.60395	22 38 15.98	+39 46 15.8	16.3	T	T05
C/2015 WZ	2016 05 19.60833	22 38 15.14	+39 46 23.4	16.4	T	T05
C/2015 WZ	2016 05 19.60930	22 38 15.07	+39 46 26.5	16.3	T	T05

C/2015 W1 (Gibbs)

C/2015 W1	2016 01 14.26782	07 50 29.42	+24 08 16.7			32H06
C/2015 W1	2016 01 14.26941	07 50 29.19	+24 08 20.1			32H06
C/2015 W1	2016 01 14.27100	07 50 28.97	+24 08 23.4	16.9	T	32H06
C/2015 W1	2016 03 10.82393	05 53 54.85	+48 14 16.7	17.9	N	K 585
C/2015 W1	2016 03 10.82508	05 53 54.77	+48 14 18.0	18.0	N	K 585
C/2015 W1	2016 03 10.82733	05 53 54.70	+48 14 19.5	18.1	N	K 585
C/2015 W1	2016 03 10.82846	05 53 54.35	+48 14 19.1	18.8	N	K 585
C/2015 W1	2016 04 04.91615	05 42 37.75	+53 11 12.9	19.4	N	K 585
C/2015 W1	2016 04 04.91757	05 42 37.66	+53 11 13.2	19.5	N	K 585
C/2015 W1	2016 04 04.91828	05 42 37.65	+53 11 13.5	19.5	N	K 585
C/2015 W1	2016 04 30.19066	05 57 57.54	+57 38 52.9			5 U69
C/2015 W1	2016 04 30.19380	05 57 57.72	+57 38 54.8			5 U69
C/2015 W1	2016 04 30.19695	05 57 57.92	+57 38 56.9	17.6	T	5 U69

C/2015 XY_1 (Lemmon)

C/2015 XY_1	2015 12 19.42542	09 26 51.28	+32 46 33.6			32H06
C/2015 XY_1	2015 12 19.42940	09 26 51.20	+32 46 34.3			32H06
C/2015 XY_1	2015 12 19.43339	09 26 51.08	+32 46 34.9	20.3	T	32H06
C/2015 XY_1	2016 05 11.83092	08 07 26.95	+32 29 00.8	19.4	T	K 461
C/2015 XY_1	2016 05 11.83853	08 07 26.95	+32 28 59.3	19.6	T	K 461

C/2015 X2 (Catalina)

C/2015 X2	2016 01 14.52360	16 01 38.00	+67 43 33.7			32H06
C/2015 X2	2016 01 14.52599	16 01 39.05	+67 43 34.8			32H06
C/2015 X2	2016 01 14.52839	16 01 40.09	+67 43 34.8	19.3	T	32H06

C/2015 X4 (Elenin)

C/2015 X4	2016 04 24.36710	06 23 17.42	+09 57 00.5			1 Q62
C/2015 X4	2016 04 24.36963	06 23 17.62	+09 57 00.1	16.2	T	1 Q62

C/2015 X5 (PANSTARRS)

C/2015 X5	2015 12 18.69364	09 10 24.83	−04 57 34.8			1 Q62
C/2015 X5	2015 12 18.69602	09 10 24.75	−04 57 34.6			1 Q62
C/2015 X5	2015 12 18.69839	09 10 24.67	−04 57 34.5	20.8	T	1 Q62

C/2015 X7 (ATLAS)

C/2015 X7	2015 12 18.53807	07 06 55.28	−29 25 57.6			1 Q62
C/2015 X7	2015 12 18.53972	07 06 55.22	−29 25 57.6	17.5	T	1 Q62
C/2015 X7	2016 04 21.38351	06 56 56.11	−02 07 24.3	17.9	N	K Q68
C/2015 X7	2016 04 21.42260	06 56 57.91	−02 06 54.4	17.6	N	K Q68
C/2015 X7	2016 04 25.81844	07 00 36.78	−01 11 55.1	18.2	N	K 160
C/2015 X7	2016 04 25.81998	07 00 36.91	−01 11 54.3	18.0	N	K 160
C/2015 X7	2016 04 25.82183	07 00 37.00	−01 11 52.3	17.9	N	K 160
C/2015 X7	2016 05 01.90121	07 05 59.32	+00 00 11.9	18.4	T	Y00
C/2015 X7	2016 05 01.91096	07 05 59.86	+00 00 17.9	18.3	T	Y00
C/2015 X7	2016 05 01.92145	07 06 00.44	+00 00 24.8	18.5	T	Y00

C/2015 X8 (NEOWISE)

C/2015 X8	2016 01 18.95312	04 13 02.28	+67 40 41.6	18.7	N	9 G40
C/2015 X8	2016 01 18.95922	04 12 58.38	+67 40 16.0	18.8	N	9 G40
C/2015 X8	2016 01 20.07794	04 02 05.19	+66 21 20.4	18.7	N	9 G40
C/2015 X8	2016 01 20.11261	04 01 46.64	+66 18 53.4	18.9	N	9 G40

C/2015 Y1 (LINEAR)

C/2015 Y1	2016 03 10.99884	08 08 46.55	+23 33 49.5	15.9	T	K 585
C/2015 Y1	2016 03 10.99955	08 08 46.53	+23 33 50.4	16.9	N	K 585
C/2015 Y1	2016 03 11.00026	08 08 46.46	+23 33 51.5	16.9	N	K 585
C/2015 Y1	2016 03 11.00096	08 08 46.45	+23 33 52.8	17.0	N	K 585
C/2015 Y1	2016 03 11.00167	08 08 46.41	+23 33 53.7	16.8	N	K 585
C/2015 Y1	2016 03 11.00238	08 08 46.38	+23 33 54.8	16.8	N	K 585
C/2015 Y1	2016 03 11.00310	08 08 46.35	+23 33 55.8	16.9	N	K 585
C/2015 Y1	2016 03 11.00381	08 08 46.32	+23 33 56.9	17.0	N	K 585

C/2015 Y1	2016 03 11.00523	08 08 46.28	+23 34 00.2	16.9	N	K 585
C/2015 Y1	2016 03 26.91519	08 03 14.07	+29 50 47.5	16.8	N	K 585
C/2015 Y1	2016 03 26.91590	08 03 14.06	+29 50 48.2	16.8	N	K 585
C/2015 Y1	2016 03 26.91696	08 03 14.05	+29 50 49.7	16.8	N	K 585
C/2015 Y1	2016 03 26.91767	08 03 14.04	+29 50 50.6	16.9	N	K 585
C/2015 Y1	2016 03 26.91838	08 03 14.02	+29 50 51.5	16.8	N	K 585
C/2015 Y1	2016 03 26.91908	08 03 14.02	+29 50 52.3	16.8	N	K 585
C/2015 Y1	2016 03 26.91979	08 03 14.02	+29 50 53.2	16.9	N	K 585
C/2015 Y1	2016 03 26.92050	08 03 14.04	+29 50 53.9	17.0	N	K 585
C/2015 Y1	2016 03 26.92121	08 03 14.05	+29 50 55.0	17.1	N	K 585
C/2015 Y1	2016 03 26.92192	08 03 14.03	+29 50 55.7	17.1	N	K 585
C/2015 Y1	2016 03 26.92263	08 03 14.04	+29 50 56.1	17.1	N	K 585
C/2015 Y1	2016 03 26.92333	08 03 14.03	+29 50 57.1	17.1	N	K 585
C/2015 Y1	2016 03 26.92404	08 03 14.01	+29 50 58.0	17.1	N	K 585
C/2015 Y1	2016 03 26.92475	08 03 14.00	+29 50 58.9	17.2	N	K 585
C/2015 Y1	2016 03 26.92546	08 03 14.02	+29 50 59.7	17.1	N	K 585
C/2015 Y1	2016 03 26.92617	08 03 13.99	+29 51 00.6	17.1	N	K 585
C/2015 Y1	2016 04 04.93635	08 03 46.83	+32 42 18.8	16.9	N	585
C/2015 Y1	2016 04 04.93777	08 03 46.82	+32 42 20.3	17.0	N	585
C/2015 Y1	2016 04 04.93850	08 03 46.82	+32 42 20.7	17.2	N	585
C/2015 Y1	2016 04 04.93991	08 03 46.86	+32 42 22.3	16.7	N	585
C/2015 Y1	2016 04 04.94062	08 03 46.83	+32 42 23.3	16.8	N	585
C/2015 Y1	2016 04 04.94133	08 03 46.93	+32 42 23.8	16.6	N	585
C/2015 Y1	2016 04 04.94345	08 03 46.86	+32 42 26.5	16.9	N	585
C/2015 Y1	2016 04 04.94416	08 03 46.93	+32 42 26.9	16.6	N	585
C/2015 Y1	2016 04 04.94487	08 03 46.94	+32 42 27.6	16.9	N	585
C/2015 Y1	2016 04 04.94558	08 03 46.92	+32 42 28.8	17.0	N	585
C/2015 Y1	2016 04 04.94628	08 03 46.98	+32 42 29.4	16.9	N	585
C/2015 Y1	2016 04 05.84391	08 03 58.94	+32 58 03.2	17.3	N	K 160
C/2015 Y1	2016 04 05.84571	08 03 59.03	+32 58 04.7	17.5	N	K 160
C/2015 Y1	2016 04 05.84751	08 03 59.09	+32 58 06.7	17.8	N	K 160
C/2015 Y1	2016 04 06.83103	08 04 13.92	+33 14 50.8	17.8	N	K 160
C/2015 Y1	2016 04 06.83298	08 04 13.94	+33 14 52.7	17.8	N	K 160
C/2015 Y1	2016 04 06.83494	08 04 14.00	+33 14 53.9	18.1	N	K 160
C/2015 Y1	2016 04 20.86958	08 11 00.13	+36 42 42.6	17.4	N	K C23
C/2015 Y1	2016 04 20.87391	08 11 00.26	+36 42 45.6	17.2	N	K C23
C/2015 Y1	2016 04 20.87824	08 11 00.57	+36 42 48.9	17.0	N	K C23
C/2015 Y1	2016 04 28.03639	08 16 37.40	+38 09 17.8	17.1	N	K I81
C/2015 Y1	2016 04 28.04457	08 16 37.77	+38 09 23.2	17.3	N	K I81
C/2015 Y1	2016 04 28.05096	08 16 38.11	+38 09 27.3	17.0	N	K I81
C/2015 Y1	2016 04 30.53885	08 18 53.97	+38 36 51.9			900
C/2015 Y1	2016 04 30.54600	08 18 54.43	+38 36 56.7	16.9	T	900
C/2015 Y1	2016 05 02.97213	08 21 16.05	+39 02 22.0	17.0	N	K K61
C/2015 Y1	2016 05 02.97294	08 21 16.09	+39 02 23.2	17.3	N	K K61
C/2015 Y1	2016 05 03.18237	08 21 28.78	+39 04 34.0			5 U69
C/2015 Y1	2016 05 03.18550	08 21 28.97	+39 04 35.8	17.2	T	5 U69
C/2015 Y1	2016 05 03.90041	08 22 12.60	+39 11 51.0	17.4	N	J22
C/2015 Y1	2016 05 03.90412	08 22 12.84	+39 11 53.1	17.4	N	J22
C/2015 Y1	2016 05 03.90782	08 22 13.06	+39 11 55.3	17.4	N	J22
C/2015 Y1	2016 05 04.12655	08 22 26.64	+39 14 06.0	17.9	T	V83
C/2015 Y1	2016 05 04.13448	08 22 27.00	+39 14 11.5	18.5	T	V83
C/2015 Y1	2016 05 04.14264	08 22 27.62	+39 14 15.8	17.5	T	V83
C/2015 Y1	2016 05 04.14962	08 22 27.88	+39 14 19.9	16.8	T	V83
C/2015 Y1	2016 05 04.15726	08 22 28.44	+39 14 24.5	17.5	T	V83
C/2015 Y1	2016 05 04.16412	08 22 28.95	+39 14 28.5	17.7	T	V83
C/2015 Y1	2016 05 04.17063	08 22 29.33	+39 14 32.5	17.9	T	V83
C/2015 Y1	2016 05 04.17735	08 22 29.73	+39 14 36.2	18.1	T	V83
C/2015 Y1	2016 05 04.88045	08 23 13.72	+39 21 35.7	17.4	N	K C23
C/2015 Y1	2016 05 04.88478	08 23 14.02	+39 21 38.4	17.0	N	K C23
C/2015 Y1	2016 05 04.88767	08 23 14.13	+39 21 39.9	17.6	N	K C23
C/2015 Y1	2016 05 04.89056	08 23 14.37	+39 21 41.6	17.2	N	K C23
C/2015 Y1	2016 05 04.91579	08 23 15.89	+39 21 57.9	17.5	N	Z39
C/2015 Y1	2016 05 04.93075	08 23 16.82	+39 22 06.4	17.5	N	Z39
C/2015 Y1	2016 05 04.94359	08 23 17.61	+39 22 14.9	17.7	N	Z39
C/2015 Y1	2016 05 05.25830	08 23 37.74	+39 25 20.8	18.0	T	T05
C/2015 Y1	2016 05 05.27083	08 23 38.40	+39 25 28.2	18.1	T	T05
C/2015 Y1	2016 05 05.28475	08 23 39.35	+39 25 35.9	17.9	T	T05
C/2015 Y1	2016 05 05.30229	08 23 40.45	+39 25 45.7	17.9	T	T05
C/2015 Y1	2016 05 05.90898	08 24 19.26	+39 31 38.6	17.5	T	K 215
C/2015 Y1	2016 05 05.91027	08 24 19.30	+39 31 39.7	18.1	T	K 215
C/2015 Y1	2016 05 05.91156	08 24 19.41	+39 31 40.3	18.1	T	K 215
C/2015 Y1	2016 05 06.86740	08 25 21.73	+39 40 53.0	17.3	N	Z39
C/2015 Y1	2016 05 06.87809	08 25 22.41	+39 40 59.1	17.4	N	Z39
C/2015 Y1	2016 05 06.88667	08 25 22.98	+39 41 03.8	17.4	N	Z39
C/2015 Y1	2016 05 09.94666	08 28 51.05	+40 09 14.6	17.0	N	K I81
C/2015 Y1	2016 05 09.96305	08 28 52.36	+40 09 22.5	16.5	N	K I81
C/2015 Y1	2016 05 09.96950	08 28 52.91	+40 09 24.2	17.7	N	K I81

C/2015 YG$_1$ (NEOWISE)

C/2015 YG$_1$	2016 04 25.15828	10 16 52.41	+16 51 39.4	18.7	T	703
C/2015 YG$_1$	2016 04 25.16939	10 16 52.18	+16 51 30.0	18.5	T	703
C/2015 YG$_1$	2016 04 25.17495	10 16 52.16	+16 51 25.5	18.7	T	703
C/2015 YG$_1$	2016 05 05.94311	10 15 03.84	+14 22 32.7	19.9	T	K 215
C/2015 YG$_1$	2016 05 05.94465	10 15 03.83	+14 22 30.7	19.8	T	K 215
C/2015 YG$_1$	2016 05 05.94620	10 15 03.76	+14 22 29.5	19.5	T	K 215

C/2016 A1 (PANSTARRS)

C/2016 A1	2016 04 21.39823	08 57 23.05	−24 50 10.6	18.2	N	K Q68
C/2016 A1	2016 04 21.43693	08 57 22.52	−24 49 45.9	18.1	N	K Q68
C/2016 A1	2016 05 01.41730	08 55 43.82	−23 05 02.6	18.7	N	Q68
C/2016 A1	2016 05 01.45125	08 55 43.54	−23 04 42.0	17.9	N	Q68
C/2016 A1	2016 05 04.35638	08 55 27.72	−22 35 15.3	17.9	N	Q68
C/2016 A1	2016 05 04.39698	08 55 27.50	−22 34 50.8	18.1	N	Q68
C/2016 A1	2016 05 05.39213	08 55 23.46	−22 24 53.4	18.3	N	Q68
C/2016 A1	2016 05 05.43753	08 55 23.23	−22 24 26.2	18.1	N	Q68
C/2016 A1	2016 05 13.35243	08 55 13.52	−21 07 46.6	17.8	N	Q68
C/2016 A1	2016 05 13.46826	08 55 13.56	−21 06 40.7	17.9	N	Q68

P/2016 A2 (Christensen)

P/2016 A2	2016 01 12.42291	07 11 18.16	+25 21 39.1			5 U69
P/2016 A2	2016 01 12.42516	07 11 18.02	+25 21 37.9	19.5	T	5 U69

P/2016 A3 (PANSTARRS)

P/2016 A3	2016 01 07.60182	08 06 04.38	+10 15 11.1			1 Q62
P/2016 A3	2016 01 07.60442	08 06 04.31	+10 15 11.5			1 Q62
P/2016 A3	2016 01 07.60690	08 06 04.27	+10 15 11.4	19.3	T	1 Q62

P/2016 A7 (PANSTARRS)

P/2016 A7	2016 05 02.50306	16 40 37.409	−13 39 59.96	20.6	T	F51
P/2016 A7	2016 05 02.51514	16 40 37.193	−13 39 50.55	20.7	T	F51
P/2016 A7	2016 05 02.52706	16 40 36.988	−13 39 41.97	20.8	T	F51
P/2016 A7	2016 05 02.53897	16 40 36.765	−13 39 32.94	20.9	T	F51
P/2016 A7	2016 05 06.97229	16 39 15.07	−12 44 34.7	19	T	K 215
P/2016 A7	2016 05 06.97422	16 39 15.04	−12 44 33.4			K 215
P/2016 A7	2016 05 06.97615	16 39 15.02	−12 44 32.0			K 215
P/2016 A7	2016 05 13.33850	16 36 37.13	−11 26 39.6	19.7	T	G45
P/2016 A7	2016 05 13.34878	16 36 36.89	−11 26 31.9	19.2	T	G45
P/2016 A7	2016 05 13.35295	16 36 36.71	−11 26 29.2	20.2	T	G45
P/2016 A7	2016 05 13.35865	16 36 36.52	−11 26 25.1	19.5	T	G45
P/2016 A7	2016 05 13.36279	16 36 36.41	−11 26 22.2	20.4	T	G45

C/2016 B1 (NEOWISE)

C/2016 B1	2016 04 09.57968	12 05 10.42	−45 42 28.8			1 Q62
C/2016 B1	2016 04 09.58134	12 05 10.34	−45 42 27.6	15.9	T	1 Q62
C/2016 B1	2016 04 30.93760	11 57 57.12	−41 09 24.4	17.5	N	J22
C/2016 B1	2016 04 30.94134	11 57 57.09	−41 09 19.6	17.5	N	J22
C/2016 B1	2016 05 01.50395	11 57 51.52	−41 01 05.3	17.7	N	Q68
C/2016 B1	2016 05 01.50848	11 57 51.52	−41 01 01.1	17.9	N	Q68
C/2016 B1	2016 05 01.53264	11 57 51.25	−41 00 40.3	18.0	N	Q68
C/2016 B1	2016 05 01.53722	11 57 51.27	−41 00 35.8	17.9	N	Q68
C/2016 B1	2016 05 01.68800	11 57 49.76	−40 58 21.5	17.9	N	Q68
C/2016 B1	2016 05 01.69253	11 57 49.65	−40 58 17.6	17.8	N	Q68
C/2016 B1	2016 05 03.35868	11 57 36.53	−40 33 45.8	18.8	N	474
C/2016 B1	2016 05 03.36228	11 57 36.48	−40 33 42.6	18.7	N	474
C/2016 B1	2016 05 03.36440	11 57 36.46	−40 33 41.0	18.8	N	474
C/2016 B1	2016 05 03.36721	11 57 36.39	−40 33 37.5	18.7	N	474
C/2016 B1	2016 05 05.49179	11 57 23.81	−40 01 56.4	17.9	N	Q68
C/2016 B1	2016 05 05.52364	11 57 23.56	−40 01 26.9	17.7	N	Q68
C/2016 B1	2016 05 11.90341	11 57 18.16	−38 24 15.7	17.5	N	J22
C/2016 B1	2016 05 11.90532	11 57 18.13	−38 24 14.3	17.5	N	J22
C/2016 B1	2016 05 11.91095	11 57 18.14	−38 24 09.0	17.5	N	J22
C/2016 B1	2016 05 13.52032	11 57 24.20	−37 59 16.1	17.6	N	Q68
C/2016 B1	2016 05 13.55132	11 57 24.36	−37 58 46.8	17.8	N	Q68
C/2016 B1	2016 05 15.54995	11 57 36.77	−37 27 50.1	17.4	N	Q68
C/2016 B1	2016 05 15.59701	11 57 36.82	−37 27 07.4	18.0	N	Q68

P/2016 BA$_{14}$ (PANSTARRS)

P/2016 BA$_{14}$	2016 03 21.48898	08 37 39.72	+10 07 27.6	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.48910	08 37 39.95	+10 07 33.0	13.8	N	Q19
P/2016 BA$_{14}$	2016 03 21.48921	08 37 40.22	+10 07 38.5	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.48933	08 37 40.55	+10 07 43.8	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.48944	08 37 40.87	+10 07 48.7	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.48968	08 37 41.57	+10 07 59.9	13.2	N	Q19
P/2016 BA$_{14}$	2016 03 21.48979	08 37 41.71	+10 08 04.7	13.3	N	Q19
P/2016 BA$_{14}$	2016 03 21.48991	08 37 42.05	+10 08 07.8	13.8	N	Q19
P/2016 BA$_{14}$	2016 03 21.49002	08 37 42.32	+10 08 15.7	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49025	08 37 42.90	+10 08 26.6	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49037	08 37 43.14	+10 08 31.2	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49049	08 37 43.50	+10 08 38.2	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49060	08 37 43.73	+10 08 41.5	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49130	08 37 45.57	+10 09 14.6	14.0	N	Q19
P/2016 BA$_{14}$	2016 03 21.49153	08 37 46.17	+10 09 25.6	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49187	08 37 47.06	+10 09 42.7	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49199	08 37 47.34	+10 09 48.7	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49350	08 37 51.18	+10 10 58.2	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49361	08 37 51.51	+10 11 02.7	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49373	08 37 51.79	+10 11 07.7	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49384	08 37 52.04	+10 11 14.3	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49396	08 37 52.36	+10 11 19.4	13.3	N	Q19
P/2016 BA$_{14}$	2016 03 21.49407	08 37 52.70	+10 11 24.7	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49419	08 37 52.93	+10 11 31.1	13.2	N	Q19
P/2016 BA$_{14}$	2016 03 21.49431	08 37 53.20	+10 11 35.4	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49442	08 37 53.54	+10 11 40.4	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49465	08 37 54.20	+10 11 53.1	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49477	08 37 54.41	+10 11 57.1	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49488	08 37 54.72	+10 12 02.4	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49500	08 37 55.07	+10 12 07.7	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49512	08 37 55.28	+10 12 13.3	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49523	08 37 55.59	+10 12 18.5	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49535	08 37 55.85	+10 12 23.5	14.2	N	Q19
P/2016 BA$_{14}$	2016 03 21.49546	08 37 56.04	+10 12 28.6	14.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49569	08 37 56.78	+10 12 38.7	14.0	N	Q19
P/2016 BA$_{14}$	2016 03 21.49581	08 37 56.91	+10 12 45.4	14.8	N	Q19
P/2016 BA$_{14}$	2016 03 21.49604	08 37 57.68	+10 12 56.1	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49627	08 37 58.28	+10 13 07.5	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49674	08 37 59.47	+10 13 28.5	13.3	N	Q19
P/2016 BA$_{14}$	2016 03 21.49697	08 38 00.11	+10 13 39.0	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49743	08 38 01.30	+10 14 01.4	13.1	N	Q19
P/2016 BA$_{14}$	2016 03 21.49766	08 38 01.80	+10 14 12.0	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49778	08 38 02.03	+10 14 16.0	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49801	08 38 02.70	+10 14 28.3	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.49812	08 38 03.02	+10 14 33.4	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49824	08 38 03.25	+10 14 38.8	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49836	08 38 03.59	+10 14 43.6	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49870	08 38 04.48	+10 15 00.3	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49894	08 38 05.10	+10 15 11.2	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49917	08 38 05.66	+10 15 22.0	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49928	08 38 05.93	+10 15 27.1	13.6	N	Q19
P/2016 BA$_{14}$	2016 03 21.49940	08 38 06.23	+10 15 32.3	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49951	08 38 06.53	+10 15 38.1	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49963	08 38 06.85	+10 15 43.9	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.49975	08 38 07.19	+10 15 50.2	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.49998	08 38 07.81	+10 16 00.1	13.8	N	Q19
P/2016 BA$_{14}$	2016 03 21.50009	08 38 07.94	+10 16 04.4	14.2	N	Q19
P/2016 BA$_{14}$	2016 03 21.50032	08 38 08.55	+10 16 15.5	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.50044	08 38 08.93	+10 16 22.0	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.50067	08 38 09.51	+10 16 32.3	13.7	N	Q19
P/2016 BA$_{14}$	2016 03 21.50079	08 38 09.82	+10 16 36.8	13.8	N	Q19
P/2016 BA$_{14}$	2016 03 21.50102	08 38 10.42	+10 16 48.9	14.0	N	Q19
P/2016 BA$_{14}$	2016 03 21.50137	08 38 11.26	+10 17 04.0	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.50148	08 38 11.59	+10 17 10.4	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.50160	08 38 11.85	+10 17 15.3	13.5	N	Q19
P/2016 BA$_{14}$	2016 03 21.50171	08 38 12.17	+10 17 20.6	13.4	N	Q19
P/2016 BA$_{14}$	2016 03 21.50183	08 38 12.46	+10 17 26.3	13.3	N	Q19

P/2016 BA_{14}	2016 03 21.50194	08 38 12.85	+10 17 31.8	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.50206	08 38 13.09	+10 17 37.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50218	08 38 13.36	+10 17 41.9	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50229	08 38 13.68	+10 17 47.7	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50252	08 38 14.26	+10 17 58.9	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.50264	08 38 14.51	+10 18 03.5	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.50287	08 38 15.12	+10 18 15.5	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50310	08 38 15.72	+10 18 25.7	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.50322	08 38 16.06	+10 18 31.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.50368	08 38 17.19	+10 18 52.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.50414	08 38 18.41	+10 19 14.6	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50507	08 38 20.78	+10 19 57.5	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.50519	08 38 21.05	+10 20 02.5	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50542	08 38 21.68	+10 20 13.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.50576	08 38 22.60	+10 20 30.7	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.50611	08 38 23.45	+10 20 45.8	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.50634	08 38 24.02	+10 20 57.3	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.50669	08 38 24.95	+10 21 12.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.50681	08 38 25.30	+10 21 18.3	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50692	08 38 25.51	+10 21 24.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.50727	08 38 26.40	+10 21 40.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.50738	08 38 26.71	+10 21 45.8	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50796	08 38 28.18	+10 22 12.5	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50854	08 38 29.79	+10 22 40.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50866	08 38 29.98	+10 22 45.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.50877	08 38 30.28	+10 22 50.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.50889	08 38 30.59	+10 22 55.6	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.50912	08 38 31.18	+10 23 06.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.50981	08 38 32.92	+10 23 39.4	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.50993	08 38 33.18	+10 23 44.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51005	08 38 33.56	+10 23 50.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51028	08 38 34.12	+10 24 01.3	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51039	08 38 34.50	+10 24 05.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51051	08 38 34.72	+10 24 11.4	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.51063	08 38 35.03	+10 24 17.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51074	08 38 35.29	+10 24 22.2	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51086	08 38 35.64	+10 24 28.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51097	08 38 35.90	+10 24 34.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51120	08 38 36.52	+10 24 44.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51155	08 38 37.45	+10 25 00.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.51167	08 38 37.76	+10 25 06.5	14.0	N	Q19
P/2016 BA_{14}	2016 03 21.51178	08 38 38.00	+10 25 11.4	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51248	08 38 39.79	+10 25 43.5	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51259	08 38 40.09	+10 25 49.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51271	08 38 40.35	+10 25 54.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51294	08 38 40.95	+10 26 05.0	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.51306	08 38 41.32	+10 26 10.9	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51340	08 38 42.28	+10 26 29.0	14.0	N	Q19
P/2016 BA_{14}	2016 03 21.51398	08 38 43.70	+10 26 54.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51421	08 38 44.22	+10 27 04.6	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.51433	08 38 44.52	+10 27 11.0	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51444	08 38 44.82	+10 27 15.9	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51468	08 38 45.45	+10 27 26.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51491	08 38 46.06	+10 27 37.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51502	08 38 46.34	+10 27 42.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51514	08 38 46.57	+10 27 48.3	14.0	N	Q19
P/2016 BA_{14}	2016 03 21.51525	08 38 46.92	+10 27 53.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51549	08 38 47.53	+10 28 04.6	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51572	08 38 48.11	+10 28 15.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51583	08 38 48.39	+10 28 20.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51595	08 38 48.69	+10 28 25.2	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.51606	08 38 48.99	+10 28 30.9	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51618	08 38 49.29	+10 28 36.8	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.51630	08 38 49.65	+10 28 43.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51676	08 38 50.81	+10 29 04.5	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51699	08 38 51.42	+10 29 13.8	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51711	08 38 51.66	+10 29 19.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51734	08 38 52.38	+10 29 32.6	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51745	08 38 52.56	+10 29 36.3	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.51769	08 38 53.23	+10 29 48.2	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.51780	08 38 53.50	+10 29 53.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51792	08 38 53.77	+10 29 58.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51803	08 38 54.07	+10 30 02.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.51815	08 38 54.38	+10 30 08.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51826	08 38 54.71	+10 30 15.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51838	08 38 54.99	+10 30 20.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51861	08 38 55.58	+10 30 31.0	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51884	08 38 56.14	+10 30 41.3	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.51907	08 38 56.77	+10 30 53.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51919	08 38 57.05	+10 30 58.4	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.51931	08 38 57.33	+10 31 03.0	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.51942	08 38 57.66	+10 31 08.5	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.51954	08 38 57.94	+10 31 13.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51977	08 38 58.53	+10 31 25.0	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.51988	08 38 58.78	+10 31 30.0	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52000	08 38 59.19	+10 31 35.2	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.52012	08 38 59.28	+10 31 41.9	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52023	08 38 59.73	+10 31 46.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52046	08 39 00.35	+10 31 56.9	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52058	08 39 00.64	+10 32 02.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52069	08 39 00.91	+10 32 08.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.52081	08 39 01.26	+10 32 14.0	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.52093	08 39 01.50	+10 32 19.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52104	08 39 01.81	+10 32 24.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52116	08 39 02.04	+10 32 28.8	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52127	08 39 02.45	+10 32 35.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52139	08 39 02.70	+10 32 40.8	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.52150	08 39 02.99	+10 32 46.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52162	08 39 03.36	+10 32 51.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52255	08 39 05.70	+10 33 34.7	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52266	08 39 06.01	+10 33 39.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52278	08 39 06.32	+10 33 45.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.52324	08 39 07.48	+10 34 07.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52336	08 39 07.81	+10 34 12.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52347	08 39 08.06	+10 34 18.4	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.52359	08 39 08.37	+10 34 24.4	13.4	N	Q19

P/2016 BA_{14}	2016 03 21.52370	08 39 08.74	+10 34 29.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.52394	08 39 09.32	+10 34 40.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52417	08 39 09.83	+10 34 50.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52440	08 39 10.44	+10 35 00.4	14.0	N	Q19
P/2016 BA_{14}	2016 03 21.52463	08 39 11.09	+10 35 12.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52486	08 39 11.69	+10 35 24.0	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.52509	08 39 12.30	+10 35 34.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52521	08 39 12.54	+10 35 38.7	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52533	08 39 12.88	+10 35 45.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52544	08 39 13.15	+10 35 50.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52556	08 39 13.46	+10 35 55.6	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52567	08 39 13.76	+10 36 01.4	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52613	08 39 14.98	+10 36 22.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52625	08 39 15.28	+10 36 29.9	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.52671	08 39 16.45	+10 36 49.7	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52683	08 39 16.76	+10 36 55.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52694	08 39 17.04	+10 37 01.7	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.52752	08 39 18.54	+10 37 28.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52775	08 39 19.14	+10 37 40.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52787	08 39 19.46	+10 37 44.0	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.52799	08 39 19.80	+10 37 50.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.52810	08 39 20.02	+10 37 54.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.52822	08 39 20.32	+10 38 00.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52845	08 39 21.00	+10 38 11.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52891	08 39 22.16	+10 38 33.7	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.52903	08 39 22.38	+10 38 39.0	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.52961	08 39 23.90	+10 39 05.5	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.53030	08 39 25.74	+10 39 38.3	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.53076	08 39 26.92	+10 39 59.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.53088	08 39 27.26	+10 40 05.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53100	08 39 27.55	+10 40 10.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.53111	08 39 27.82	+10 40 16.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53123	08 39 28.13	+10 40 21.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53146	08 39 28.74	+10 40 32.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53157	08 39 28.98	+10 40 38.1	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.53204	08 39 30.18	+10 40 59.3	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.53262	08 39 31.71	+10 41 27.0	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.53296	08 39 32.63	+10 41 43.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53331	08 39 33.53	+10 41 59.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53366	08 39 34.40	+10 42 15.2	13.5	N	Q19
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P/2016 BA_{14}	2016 03 21.53516	08 39 38.34	+10 43 26.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53528	08 39 38.67	+10 43 32.2	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.53574	08 39 39.79	+10 43 53.3	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.53586	08 39 40.12	+10 43 59.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53644	08 39 41.62	+10 44 26.2	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.53690	08 39 42.86	+10 44 47.8	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53713	08 39 43.42	+10 44 58.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53759	08 39 44.61	+10 45 20.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53794	08 39 45.56	+10 45 36.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53840	08 39 46.72	+10 45 58.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53852	08 39 47.01	+10 46 03.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53875	08 39 47.55	+10 46 14.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.53910	08 39 48.50	+10 46 30.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.53933	08 39 49.09	+10 46 41.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.53956	08 39 49.77	+10 46 52.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.53979	08 39 50.34	+10 47 04.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.54060	08 39 52.41	+10 47 42.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54072	08 39 52.78	+10 47 47.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54083	08 39 53.26	+10 47 52.3	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54106	08 39 53.67	+10 48 03.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54130	08 39 54.23	+10 48 13.5	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.54141	08 39 54.56	+10 48 19.4	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54153	08 39 54.81	+10 48 26.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54222	08 39 56.71	+10 48 58.7	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54257	08 39 57.49	+10 49 14.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.54292	08 39 58.47	+10 49 30.5	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54373	08 40 00.56	+10 50 09.2	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.54384	08 40 00.88	+10 50 13.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.54396	08 40 01.12	+10 50 19.5	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54431	08 40 02.05	+10 50 36.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54442	08 40 02.42	+10 50 41.7	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.54454	08 40 02.67	+10 50 47.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54465	08 40 02.97	+10 50 52.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54546	08 40 05.04	+10 51 30.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54650	08 40 07.80	+10 52 19.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.54697	08 40 08.98	+10 52 41.1	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.54743	08 40 10.21	+10 53 02.2	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54801	08 40 11.67	+10 53 30.5	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.54813	08 40 12.05	+10 53 35.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.54824	08 40 12.36	+10 53 40.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54836	08 40 12.63	+10 53 46.3	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.54859	08 40 13.28	+10 53 57.0	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.54870	08 40 13.52	+10 54 02.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54882	08 40 13.84	+10 54 07.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.54894	08 40 14.10	+10 54 13.7	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.54940	08 40 15.35	+10 54 34.7	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.54951	08 40 15.68	+10 54 41.2	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.54986	08 40 16.57	+10 54 56.6	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55009	08 40 17.14	+10 55 07.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.55032	08 40 17.77	+10 55 18.9	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.55056	08 40 18.33	+10 55 29.9	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.55090	08 40 19.22	+10 55 46.2	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.55113	08 40 19.91	+10 55 57.0	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.55125	08 40 20.13	+10 56 02.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.55171	08 40 21.37	+10 56 22.9	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55183	08 40 21.68	+10 56 29.9	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55194	08 40 21.98	+10 56 35.0	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.55206	08 40 22.28	+10 56 40.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.55252	08 40 23.52	+10 57 02.7	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.55299	08 40 24.74	+10 57 23.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55310	08 40 24.99	+10 57 28.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.55322	08 40 25.32	+10 57 34.7	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.55345	08 40 25.95	+10 57 45.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55368	08 40 26.56	+10 57 56.4	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.55380	08 40 26.80	+10 58 01.5	13.8	N	Q19

P/2016 BA_{14}	2016 03 21.55391	08 40 27.15	+10 58 07.3	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55461	08 40 28.95	+10 58 40.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.55472	08 40 29.26	+10 58 45.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55484	08 40 29.56	+10 58 51.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55495	08 40 29.85	+10 58 56.4	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55507	08 40 30.13	+10 59 02.0	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.55519	08 40 30.50	+10 59 07.7	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.55530	08 40 30.81	+10 59 13.4	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.55553	08 40 31.37	+10 59 22.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55611	08 40 32.82	+10 59 50.7	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.55646	08 40 33.75	+11 00 04.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55681	08 40 34.73	+11 00 23.8	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.55692	08 40 35.05	+11 00 29.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55704	08 40 35.29	+11 00 35.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55727	08 40 35.93	+11 00 46.0	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.55738	08 40 36.21	+11 00 51.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.55750	08 40 36.47	+11 00 57.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55762	08 40 36.85	+11 01 02.6	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55843	08 40 38.94	+11 01 40.2	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55854	08 40 39.22	+11 01 45.4	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55866	08 40 39.55	+11 01 51.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55877	08 40 39.88	+11 01 56.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.55900	08 40 40.49	+11 02 07.4	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55935	08 40 41.31	+11 02 23.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.55947	08 40 41.65	+11 02 29.2	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.55981	08 40 42.55	+11 02 45.5	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.56039	08 40 44.09	+11 03 13.0	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56051	08 40 44.41	+11 03 18.4	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56178	08 40 47.72	+11 04 17.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56190	08 40 47.99	+11 04 23.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56236	08 40 49.25	+11 04 45.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56248	08 40 49.51	+11 04 50.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.56259	08 40 49.86	+11 04 56.3	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56306	08 40 51.03	+11 05 17.4	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.56329	08 40 51.75	+11 05 28.6	13.9	N	Q19
P/2016 BA_{14}	2016 03 21.56363	08 40 52.58	+11 05 46.0	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.56375	08 40 52.89	+11 05 51.3	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56387	08 40 53.19	+11 05 55.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56410	08 40 53.82	+11 06 06.9	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.56433	08 40 54.44	+11 06 18.1	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.56444	08 40 54.72	+11 06 23.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56456	08 40 55.00	+11 06 29.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56502	08 40 56.22	+11 06 51.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56514	08 40 56.55	+11 06 56.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.56560	08 40 57.75	+11 07 18.1	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56572	08 40 58.07	+11 07 23.7	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.56583	08 40 58.38	+11 07 28.6	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.56595	08 40 58.67	+11 07 35.0	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56606	08 40 58.98	+11 07 40.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.56653	08 41 00.14	+11 08 01.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.56757	08 41 02.95	+11 08 51.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.56780	08 41 03.51	+11 09 01.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.56826	08 41 04.82	+11 09 24.1	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.56896	08 41 06.61	+11 09 56.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.56907	08 41 06.90	+11 10 02.1	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.56977	08 41 08.73	+11 10 35.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.57023	08 41 09.93	+11 10 56.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.57035	08 41 10.22	+11 11 01.7	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.57058	08 41 10.86	+11 11 12.8	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.57093	08 41 11.79	+11 11 29.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57243	08 41 15.72	+11 12 39.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57266	08 41 16.33	+11 12 51.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.57336	08 41 18.20	+11 13 24.2	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.57347	08 41 18.48	+11 13 29.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.57359	08 41 18.79	+11 13 34.9	13.7	N	Q19
P/2016 BA_{14}	2016 03 21.57370	08 41 19.10	+11 13 40.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.57463	08 41 21.52	+11 14 23.9	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57486	08 41 22.13	+11 14 34.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.57556	08 41 23.98	+11 15 07.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57567	08 41 24.27	+11 15 13.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57613	08 41 25.54	+11 15 35.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.57637	08 41 26.11	+11 15 46.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57648	08 41 26.45	+11 15 51.8	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57660	08 41 26.80	+11 15 57.1	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.57694	08 41 27.68	+11 16 13.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.57764	08 41 29.43	+11 16 46.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.57775	08 41 29.85	+11 16 52.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.57787	08 41 30.14	+11 16 57.3	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.57868	08 41 32.26	+11 17 36.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.57891	08 41 32.85	+11 17 47.0	13.0	N	Q19
P/2016 BA_{14}	2016 03 21.57914	08 41 33.45	+11 17 57.7	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.57949	08 41 34.41	+11 18 13.7	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.57995	08 41 35.59	+11 18 35.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.58007	08 41 35.91	+11 18 41.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.58019	08 41 36.20	+11 18 46.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58042	08 41 36.86	+11 18 57.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.58053	08 41 37.13	+11 19 02.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.58111	08 41 38.66	+11 19 30.1	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58157	08 41 39.88	+11 19 51.9	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.58204	08 41 41.09	+11 20 14.4	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58215	08 41 41.52	+11 20 20.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58227	08 41 41.76	+11 20 25.4	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58238	08 41 42.04	+11 20 30.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58250	08 41 42.33	+11 20 35.7	12.9	N	Q19
P/2016 BA_{14}	2016 03 21.58262	08 41 42.63	+11 20 41.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58273	08 41 42.98	+11 20 47.4	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58308	08 41 43.78	+11 21 02.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.58366	08 41 45.44	+11 21 30.8	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58389	08 41 46.06	+11 21 41.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58400	08 41 46.35	+11 21 47.3	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.58425	08 41 46.98	+11 21 58.0	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.58494	08 41 48.84	+11 22 31.1	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.58529	08 41 49.84	+11 22 47.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.58737	08 41 55.26	+11 24 26.3	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58749	08 41 55.54	+11 24 30.8	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.58760	08 41 55.94	+11 24 36.7	13.4	N	Q19

P/2016 BA_{14}	2016 03 21.58830	08 41 57.69	+11 25 09.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.58853	08 41 58.32	+11 25 21.2	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.58875	08 41 58.94	+11 25 31.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.58957	08 42 01.14	+11 26 10.3	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.59015	08 42 02.68	+11 26 37.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.59027	08 42 02.93	+11 26 43.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.59189	08 42 07.25	+11 27 59.5	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.59234	08 42 08.50	+11 28 21.1	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.59247	08 42 08.80	+11 28 26.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.59281	08 42 09.70	+11 28 43.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.59351	08 42 11.57	+11 29 15.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.59373	08 42 12.17	+11 29 26.4	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.59466	08 42 14.71	+11 30 10.8	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.59478	08 42 14.94	+11 30 16.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.59490	08 42 15.25	+11 30 21.9	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.59513	08 42 15.82	+11 30 32.8	12.9	N	Q19
P/2016 BA_{14}	2016 03 21.60277	08 42 36.29	+11 36 34.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60531	08 42 43.10	+11 38 35.3	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60543	08 42 43.40	+11 38 40.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.60554	08 42 43.71	+11 38 46.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60566	08 42 44.04	+11 38 51.8	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.60578	08 42 44.36	+11 38 57.3	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.60600	08 42 44.94	+11 39 07.4	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.60612	08 42 45.26	+11 39 13.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.60624	08 42 45.58	+11 39 19.3	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.60647	08 42 46.24	+11 39 30.6	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.60693	08 42 47.53	+11 39 52.0	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.60705	08 42 47.72	+11 39 57.5	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.60728	08 42 48.39	+11 40 08.4	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60740	08 42 48.68	+11 40 14.5	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.60762	08 42 49.36	+11 40 25.1	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.60774	08 42 49.60	+11 40 30.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.60786	08 42 49.91	+11 40 35.7	13.6	N	Q19
P/2016 BA_{14}	2016 03 21.60809	08 42 50.54	+11 40 46.9	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.60821	08 42 50.82	+11 40 52.0	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.60832	08 42 51.18	+11 40 58.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.60855	08 42 51.77	+11 41 09.7	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.60867	08 42 52.10	+11 41 14.4	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60878	08 42 52.41	+11 41 19.9	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.60890	08 42 52.70	+11 41 24.9	13.4	N	Q19
P/2016 BA_{14}	2016 03 21.60900	08 42 53.02	+11 41 30.5	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.60925	08 42 53.65	+11 41 41.5	14.1	N	Q19
P/2016 BA_{14}	2016 03 21.60935	08 42 53.96	+11 41 47.6	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.60948	08 42 54.33	+11 41 53.6	13.5	N	Q19
P/2016 BA_{14}	2016 03 21.60959	08 42 54.60	+11 41 58.1	13.2	N	Q19
P/2016 BA_{14}	2016 03 21.60971	08 42 54.90	+11 42 04.2	13.3	N	Q19
P/2016 BA_{14}	2016 03 21.61017	08 42 56.13	+11 42 26.3	13.1	N	Q19
P/2016 BA_{14}	2016 03 21.61064	08 42 57.34	+11 42 47.5	13.8	N	Q19
P/2016 BA_{14}	2016 03 21.61110	08 42 58.63	+11 43 10.3	13.4	N	Q19
P/2016 BA_{14}	2016 03 28.00346	14 41 50.06	+49 55 59.9	15.0	N	585
P/2016 BA_{14}	2016 03 28.00395	14 41 50.85	+49 55 58.9	14.9	N	585
P/2016 BA_{14}	2016 03 28.00444	14 41 51.62	+49 55 57.7	15.0	N	585
P/2016 BA_{14}	2016 03 28.00554	14 41 53.33	+49 55 55.2	15.1	N	585
P/2016 BA_{14}	2016 03 28.00593	14 41 53.96	+49 55 54.4	15.1	N	585
P/2016 BA_{14}	2016 03 28.00619	14 41 54.36	+49 55 53.9	15.1	N	585
P/2016 BA_{14}	2016 03 28.00709	14 41 55.80	+49 55 51.9	15.2	N	585
P/2016 BA_{14}	2016 03 28.00787	14 41 57.02	+49 55 50.2	14.9	N	585
P/2016 BA_{14}	2016 03 28.00851	14 41 58.04	+49 55 48.7	14.8	N	585
P/2016 BA_{14}	2016 03 28.00942	14 41 59.46	+49 55 46.7	14.9	N	585
P/2016 BA_{14}	2016 03 28.01466	14 42 07.72	+49 55 35.0	15.0	N	585
P/2016 BA_{14}	2016 03 28.01506	14 42 08.35	+49 55 34.0	15.1	N	585
P/2016 BA_{14}	2016 03 28.01544	14 42 08.95	+49 55 33.3	15.5	N	585
P/2016 BA_{14}	2016 03 28.01583	14 42 09.58	+49 55 32.4	15.2	N	585
P/2016 BA_{14}	2016 03 28.01691	14 42 11.25	+49 55 29.9	14.8	N	585
P/2016 BA_{14}	2016 03 28.01905	14 42 14.63	+49 55 25.1	14.9	N	585
P/2016 BA_{14}	2016 03 28.02043	14 42 16.80	+49 55 22.0	15.0	N	585
P/2016 BA_{14}	2016 04 05.55352	16 14 43.37	+44 48 08.7	16.9	T	D95
P/2016 BA_{14}	2016 04 05.56430	16 14 45.69	+44 47 56.0			D95
P/2016 BA_{14}	2016 04 05.56645	16 14 46.15	+44 47 53.3			D95
P/2016 BA_{14}	2016 04 17.08020	16 34 23.64	+41 33 02.5	17.8	N	J22
P/2016 BA_{14}	2016 04 17.08255	16 34 23.68	+41 33 00.5	17.8	N	J22
P/2016 BA_{14}	2016 04 17.08486	16 34 23.71	+41 32 59.0	17.8	N	J22
P/2016 BA_{14}	2016 04 19.629687	16 35 21.708	+40 59 41.16	17.8	T	2 568
P/2016 BA_{14}	2016 04 19.630523	16 35 21.706	+40 59 40.47	17.8	T	2 568
P/2016 BA_{14}	2016 04 19.631531	16 35 21.705	+40 59 39.61	17.8	T	2 568
P/2016 BA_{14}	2016 04 20.09034	16 35 30.56	+40 53 26.6	18.0	N	K C23
P/2016 BA_{14}	2016 04 20.09612	16 35 30.69	+40 53 22.8	17.9	N	K C23
P/2016 BA_{14}	2016 04 20.10045	16 35 30.57	+40 53 19.1	17.9	N	K C23
P/2016 BA_{14}	2016 04 22.35726	16 35 50.49	+40 24 30.0	18.4	N	K H36
P/2016 BA_{14}	2016 04 22.38538	16 35 50.14	+40 24 09.6	18.6	N	K H36
P/2016 BA_{14}	2016 04 26.625122	16 35 30.133	+39 29 29.60	18.6	T	2 568
P/2016 BA_{14}	2016 04 26.625689	16 35 30.119	+39 29 29.11	18.6	T	2 568
P/2016 BA_{14}	2016 04 26.626520	16 35 30.096	+39 29 28.42	18.7	T	2 568
P/2016 BA_{14}	2016 04 26.626998	16 35 30.089	+39 29 28.03	18.5	T	2 568
P/2016 BA_{14}	2016 04 26.90528	16 35 30.03	+39 25 31.1	18.8	N	K K25
P/2016 BA_{14}	2016 04 26.91669	16 35 29.84	+39 25 23.3	18.8	N	K K25
P/2016 BA_{14}	2016 04 27.07062	16 35 26.50	+39 23 20.1	18.0	N	I81
P/2016 BA_{14}	2016 04 27.07773	16 35 26.39	+39 23 14.9	18.0	N	I81
P/2016 BA_{14}	2016 04 27.08342	16 35 26.25	+39 23 10.0	18.0	N	I81
P/2016 BA_{14}	2016 04 27.49149	16 35 21.147	+39 18 06.37	18.9	T	F51
P/2016 BA_{14}	2016 04 27.50236	16 35 20.824	+39 17 58.01	19.0	T	F51
P/2016 BA_{14}	2016 04 27.51323	16 35 20.503	+39 17 49.48	18.9	T	F51
P/2016 BA_{14}	2016 04 27.52418	16 35 20.177	+39 17 40.78	18.9	T	F51
P/2016 BA_{14}	2016 04 29.43304	16 34 48.12	+38 51 56.3	19.2	T	703
P/2016 BA_{14}	2016 04 29.43812	16 34 47.99	+38 51 52.4	19.1	T	703
P/2016 BA_{14}	2016 04 29.46867	16 34 47.03	+38 51 25.9	18.5	T	703
P/2016 BA_{14}	2016 04 29.47030	16 34 46.92	+38 51 24.7	18.9	T	703
P/2016 BA_{14}	2016 04 29.47196	16 34 46.84	+38 51 23.5	18.5	T	703
P/2016 BA_{14}	2016 04 29.47361	16 34 46.93	+38 51 21.5	18.6	T	703
P/2016 BA_{14}	2016 04 29.87682	16 34 40.95	+38 45 38.6	19.1	N	K C36
P/2016 BA_{14}	2016 04 29.89889	16 34 40.62	+38 45 20.9	19.0	N	K C36
P/2016 BA_{14}	2016 04 30.92226	16 34 19.41	+38 31 13.3	18.5	N	K C23
P/2016 BA_{14}	2016 04 30.93959	16 34 18.82	+38 30 59.8	18.2	N	K C23
P/2016 BA_{14}	2016 05 01.02177	16 34 17.46	+38 30 04.0	19.0	N	J22
P/2016 BA_{14}	2016 05 01.02411	16 34 17.20	+38 30 00.3	19.0	N	J22
P/2016 BA_{14}	2016 05 03.95766	16 33 03.37	+37 47 50.8	18.4	N	K C23

P/2016 BA_{14}	2016 05 03.96055	16 33 03.29	+37 47 48.2	18.5	N	K	C23
P/2016 BA_{14}	2016 05 03.96344	16 33 03.27	+37 47 47.1	18.3	N	K	C23
P/2016 BA_{14}	2016 05 03.96632	16 33 03.19	+37 47 43.4	18.6	N	K	C23
P/2016 BA_{14}	2016 05 03.96993	16 33 03.02	+37 47 41.0	18.8	N	K	C23
P/2016 BA_{14}	2016 05 03.97354	16 33 02.90	+37 47 37.5	18.6	N	K	C23
P/2016 BA_{14}	2016 05 04.625815	16 32 42.592	+37 38 09.93	19.1	T	2	568
P/2016 BA_{14}	2016 05 04.626324	16 32 42.565	+37 38 09.44	19.1	T	2	568
P/2016 BA_{14}	2016 05 04.626959	16 32 42.546	+37 38 08.83	19.2	T	2	568
P/2016 BA_{14}	2016 05 04.628256	16 32 42.497	+37 38 07.58	19.1	T	2	568
P/2016 BA_{14}	2016 05 04.93244	16 32 36.23	+37 33 22.8	18.4	N	K	C23
P/2016 BA_{14}	2016 05 04.93533	16 32 36.06	+37 33 20.0	18.6	N	K	C23
P/2016 BA_{14}	2016 05 04.93894	16 32 36.04	+37 33 16.8	18.7	N	K	C23
P/2016 BA_{14}	2016 05 04.94255	16 32 35.91	+37 33 13.5	18.5	N	K	C23
P/2016 BA_{14}	2016 05 05.26820	16 32 26.60	+37 28 28.2	19.5	T		G45
P/2016 BA_{14}	2016 05 05.26827	16 32 26.59	+37 28 28.2	19.4	T		G45
P/2016 BA_{14}	2016 05 05.27341	16 32 26.38	+37 28 23.6	19.5	T		G45
P/2016 BA_{14}	2016 05 05.27422	16 32 26.38	+37 28 22.8	18.9	T		G45
P/2016 BA_{14}	2016 05 05.27886	16 32 26.19	+37 28 19.0	19.2	T		G45
P/2016 BA_{14}	2016 05 05.27943	16 32 26.19	+37 28 18.3	19.3	T		G45
P/2016 BA_{14}	2016 05 05.28417	16 32 26.01	+37 28 12.0	19.5	T		G45
P/2016 BA_{14}	2016 05 05.28471	16 32 25.95	+37 28 13.4	19.7	T		G45
P/2016 BA_{14}	2016 05 05.28925	16 32 25.82	+37 28 10.2	19.2	T		G45
P/2016 BA_{14}	2016 05 05.29010	16 32 25.74	+37 28 09.2	19.4	T		G45
P/2016 BA_{14}	2016 05 05.44185	16 32 19.62	+37 25 51.9				32H06
P/2016 BA_{14}	2016 05 05.44393	16 32 19.54	+37 25 50.2				32H06
P/2016 BA_{14}	2016 05 05.44602	16 32 19.47	+37 25 48.3	19.0	T		32H06
P/2016 BA_{14}	2016 05 06.01978	16 32 03.64	+37 16 56.9	18.2	N	K	C23
P/2016 BA_{14}	2016 05 06.02267	16 32 03.54	+37 16 55.0	18.3	N	K	C23
P/2016 BA_{14}	2016 05 07.01212	16 31 33.29	+37 01 39.3	18.8	N	K	215
P/2016 BA_{14}	2016 05 07.01405	16 31 33.22	+37 01 37.4	19.0	N	K	215
P/2016 BA_{14}	2016 05 07.01598	16 31 33.13	+37 01 35.6	19.0	N	K	215
P/2016 BA_{14}	2016 05 07.01926	16 31 33.87	+37 01 38.5	18.9	N		J22
P/2016 BA_{14}	2016 05 07.02321	16 31 33.71	+37 01 35.1	18.9	N		J22
P/2016 BA_{14}	2016 05 07.02715	16 31 33.56	+37 01 31.5	18.9	N		J22
P/2016 BA_{14}	2016 05 07.17504	16 31 29.28	+36 59 08.1	19.2	N	K	850
P/2016 BA_{14}	2016 05 07.20520	16 31 28.03	+36 58 41.6	19.2	N	K	850
P/2016 BA_{14}	2016 05 07.23536	16 31 26.88	+36 58 14.2	19.3	N	K	850
P/2016 BA_{14}	2016 05 07.26554	16 31 25.56	+36 57 46.6	19.5	N	K	850
P/2016 BA_{14}	2016 05 07.29565	16 31 24.38	+36 57 18.3	19.6	N	K	850
P/2016 BA_{14}	2016 05 07.94675	16 31 04.24	+36 46 55.9	18.8	T	K	461
P/2016 BA_{14}	2016 05 07.95267	16 31 04.01	+36 46 50.3	18.9	T	K	461
P/2016 BA_{14}	2016 05 07.96300	16 31 03.59	+36 46 40.7	18.8	T	K	461
P/2016 BA_{14}	2016 05 08.99487	16 30 30.50	+36 30 04.9	18.9	N	K	C23
P/2016 BA_{14}	2016 05 08.99992	16 30 30.19	+36 30 00.0	18.5	N	K	C23
P/2016 BA_{14}	2016 05 09.00497	16 30 30.01	+36 29 55.2	19.0	N	K	C23
P/2016 BA_{14}	2016 05 09.91915	16 30 00.41	+36 14 58.0	19.2	T	K	461
P/2016 BA_{14}	2016 05 09.92102	16 30 00.34	+36 14 56.2	18.7	T	K	461
P/2016 BA_{14}	2016 05 09.92353	16 30 00.24	+36 14 53.9	18.8	T	K	461
P/2016 BA_{14}	2016 05 09.93679	16 29 59.71	+36 14 41.1	18.9	T	K	461
P/2016 BA_{14}	2016 05 11.97190	16 28 52.47	+35 40 29.2	19.2	N		J22
P/2016 BA_{14}	2016 05 11.97587	16 28 52.30	+35 40 25.4	19.2	N		J22
P/2016 BA_{14}	2016 05 11.97984	16 28 52.17	+35 40 21.9	19.2	N		J22
P/2016 BA_{14}	2016 05 12.24560	16 28 42.97	+35 35 46.4	19.8	T		G45
P/2016 BA_{14}	2016 05 12.24567	16 28 42.99	+35 35 46.8	19.6	T		G45
P/2016 BA_{14}	2016 05 12.25069	16 28 42.76	+35 35 41.3	19.9	T		G45
P/2016 BA_{14}	2016 05 12.25665	16 28 42.52	+35 35 35.5	19.5	T		G45
P/2016 BA_{14}	2016 05 12.25671	16 28 42.50	+35 35 35.6	19.5	T		G45
P/2016 BA_{14}	2016 05 12.26217	16 28 42.29	+35 35 30.3	19.5	T		G45
P/2016 BA_{14}	2016 05 16.77390	16 26 08.98	+34 14 34.5	19.8	T		D29
P/2016 BA_{14}	2016 05 16.78760	16 26 08.39	+34 14 18.4	19.5	T		D29
P/2016 BA_{14}	2016 05 16.80130	16 26 07.79	+34 14 03.1	19.8	T		D29

C/2016 C1 (PANSTARRS)

C/2016 C1	2016 04 23.31294	10 07 27.647	−14 40 39.70	19.7	T		F51
C/2016 C1	2016 04 23.32436	10 07 27.644	−14 40 35.48	19.6	T		F51
C/2016 C1	2016 04 23.33584	10 07 27.641	−14 40 31.58	19.8	T		F51
C/2016 C1	2016 04 23.34727	10 07 27.645	−14 40 27.31	19.5	T		F51
C/2016 C1	2016 04 27.83832	10 07 32.50	−14 15 09.0	18.8	N	K	A71
C/2016 C1	2016 04 27.84733	10 07 32.44	−14 15 06.2	18.8	N	K	A71
C/2016 C1	2016 05 06.38484	10 08 06.35	−13 28 53.8	19.5	N		474
C/2016 C1	2016 05 06.43050	10 08 06.54	−13 28 39.3	19.5	N	K	474
C/2016 C1	2016 05 06.43402	10 08 06.56	−13 28 38.7	19.4	N	K	474
C/2016 C1	2016 05 06.43754	10 08 06.59	−13 28 36.8	19.3	N	K	474

C/2016 C2 (NEOWISE)

C/2016 C2	2016 04 04.75263	17 05 42.68	−49 10 15.1			1	Q62
C/2016 C2	2016 04 04.75408	17 05 42.93	−49 10 19.9			1	Q62
C/2016 C2	2016 04 04.75553	17 05 43.11	−49 10 25.0	18.3	T	1	Q62
C/2016 C2	2016 04 21.80066	18 00 51.55	−64 37 46.2	16.5	N		Q68
C/2016 C2	2016 04 21.81421	18 00 54.73	−64 38 26.5	16.8	N		Q68
C/2016 C2	2016 05 01.78355	18 49 39.55	−72 14 01.7	16.9	N		Q68
C/2016 C2	2016 05 01.79549	18 49 43.62	−72 14 30.2	16.8	N		Q68
C/2016 C2	2016 05 04.27925	19 05 07.45	−73 51 12.0	16.9	N	K	I47
C/2016 C2	2016 05 04.27977	19 05 07.80	−73 51 13.6	17.0	N	K	I47
C/2016 C2	2016 05 04.28501	19 05 09.81	−73 51 25.2	16.8	N	K	I47
C/2016 C2	2016 05 04.80657	19 08 34.31	−74 10 46.2	16.7	N		Q68
C/2016 C2	2016 05 04.80799	19 08 34.76	−74 10 49.9	16.8	N		Q68
C/2016 C2	2016 05 13.68549	20 19 39.42	−78 42 32.6	16.9	N	K	Q68
C/2016 C2	2016 05 13.69395	20 19 44.34	−78 42 44.5	17.0	N	K	Q68
C/2016 C2	2016 05 14.56589	20 28 05.66	−79 03 14.0	17.1	N	K	E94
C/2016 C2	2016 05 14.60054	20 28 26.19	−79 04 02.7	16.9	N	K	E94
C/2016 C2	2016 05 14.63626	20 28 45.80	−79 04 51.1	17.2	N	K	E94
C/2016 C2	2016 05 14.67258	20 29 05.22	−79 05 38.0	17.2	N	K	E94
C/2016 C2	2016 05 15.68183	20 39 07.17	−79 27 43.1	17.2	N	K	Q68
C/2016 C2	2016 05 15.69809	20 39 16.37	−79 28 04.8	17.0	N	K	Q68

C/2016 E1 (PANSTARRS)

C/2016 E1	2016 05 06.94563	14 36 07.32	+06 12 53.2	19.9	T	K	215
C/2016 E1	2016 05 06.94888	14 36 07.14	+06 12 54.0	19.8	T	K	215
C/2016 E1	2016 05 06.95213	14 36 06.99	+06 12 56.1	19.4	T	K	215

P/2016 G1 (PANSTARRS)

P/2016 G1	2016 04 11.35016	15 35 39.30	−13 46 19.8	18.8	T		G45
P/2016 G1	2016 04 11.35390	15 35 39.27	−13 46 17.7	19.0	T		G45
P/2016 G1	2016 04 11.35905	15 35 39.17	−13 46 16.1	18.9	T		G45
P/2016 G1	2016 04 11.36390	15 35 39.00	−13 46 13.8	19.1	T		G45
P/2016 G1	2016 04 11.36862	15 35 38.82	−13 46 10.6	18.4	T		G45
P/2016 G1	2016 04 29.98839	15 24 35.33	−11 13 18.2	18.0	N		A71

P/2016 G1	2016 04 29.99199	15 24 35.21	−11 13 17.2	18.3	N	A71
P/2016 G1	2016 04 30.35203	15 24 18.23	−11 10 06.7	17.5	T	703
P/2016 G1	2016 04 30.36422	15 24 17.70	−11 09 59.4	17.8	T	703
P/2016 G1	2016 04 30.37033	15 24 17.47	−11 09 56.4	18.1	T	703
P/2016 G1	2016 05 01.00848	15 23 47.56	−11 04 19.1	17.9	N	K K02
P/2016 G1	2016 05 01.01439	15 23 47.22	−11 04 15.9	18.1	N	K K02
P/2016 G1	2016 05 04.43274	15 21 00.814	−10 34 01.36	19.7	T	F51
P/2016 G1	2016 05 04.44535	15 21 00.158	−10 33 54.57	19.6	T	F51
P/2016 G1	2016 05 04.45794	15 20 59.513	−10 33 47.88	19.8	T	F51
P/2016 G1	2016 05 04.47056	15 20 58.853	−10 33 40.88	19.8	T	F51
P/2016 G1	2016 05 04.94611	15 20 35.08	−10 29 31.0	18.4	N	K K25
P/2016 G1	2016 05 04.97660	15 20 33.57	−10 29 15.1	18.4	N	K K25
P/2016 G1	2016 05 05.03894	15 20 30.26	−10 28 42.3	18.2	T	K 215
P/2016 G1	2016 05 05.04089	15 20 30.14	−10 28 40.9	18.0	T	K 215
P/2016 G1	2016 05 05.04284	15 20 30.03	−10 28 39.4	18.8	T	K 215
P/2016 G1	2016 05 06.04349	15 19 39.75	−10 19 48.7	18.2	N	J22
P/2016 G1	2016 05 06.04733	15 19 39.60	−10 19 46.7	18.2	N	J22
P/2016 G1	2016 05 06.04925	15 19 39.45	−10 19 44.4	18.2	N	J22
P/2016 G1	2016 05 06.30067	15 19 26.60	−10 17 33.3	18.2	T	G45
P/2016 G1	2016 05 06.30497	15 19 26.35	−10 17 31.2	18.0	T	G45
P/2016 G1	2016 05 06.30930	15 19 26.11	−10 17 28.7	18.2	T	G45
P/2016 G1	2016 05 06.31380	15 19 25.91	−10 17 26.3	17.8	T	G45
P/2016 G1	2016 05 07.29237	15 18 35.88	−10 08 49.1	18.1	T	G45
P/2016 G1	2016 05 07.29591	15 18 35.77	−10 08 47.6	18.2	T	G45
P/2016 G1	2016 05 07.29850	15 18 35.56	−10 08 45.5	17.7	T	G45
P/2016 G1	2016 05 07.30191	15 18 35.40	−10 08 43.9	18.2	T	G45
P/2016 G1	2016 05 07.30285	15 18 35.39	−10 08 43.6	17.5	T	G45
P/2016 G1	2016 05 07.94689	15 18 02.34	−10 03 06.2			246
P/2016 G1	2016 05 07.94714	15 18 02.30	−10 03 07.1			246
P/2016 G1	2016 05 07.94736	15 18 02.28	−10 03 05.8			246
P/2016 G1	2016 05 07.94823	15 18 02.24	−10 03 04.1			246
P/2016 G1	2016 05 07.94843	15 18 02.20	−10 03 04.7			246
P/2016 G1	2016 05 07.94861	15 18 02.21	−10 03 05.7			246
P/2016 G1	2016 05 09.36662	15 16 48.58	−09 50 40.8	17.7	T	G96
P/2016 G1	2016 05 09.37184	15 16 48.35	−09 50 37.9	17.9	T	G96
P/2016 G1	2016 05 09.37706	15 16 48.15	−09 50 34.5	17.9	T	G96
P/2016 G1	2016 05 09.95503	15 16 18.18	−09 45 34.6	18.4	N	A71
P/2016 G1	2016 05 09.95829	15 16 17.97	−09 45 33.7	17.9	N	A71
P/2016 G1	2016 05 10.28882	15 16 00.73	−09 42 40.8	17.9	T	G45
P/2016 G1	2016 05 10.29458	15 16 00.42	−09 42 37.6	18.1	T	G45
P/2016 G1	2016 05 10.30358	15 15 59.94	−09 42 33.1	18.1	T	G45
P/2016 G1	2016 05 10.31341	15 15 59.39	−09 42 27.6	18.1	T	G45

P/2016 J1 (PANSTARRS)

P/2016 J1-A	2016 05 05.46342	15 46 25.093	−06 48 03.90	21.4	T	F51
P/2016 J1-A	2016 05 05.47541	15 46 24.629	−06 47 57.14	21.5	T	F51
P/2016 J1-A	2016 05 05.48743	15 46 24.144	−06 47 49.89	21.4	T	F51
P/2016 J1-A	2016 05 05.49944	15 46 23.663	−06 47 43.12	21.3	T	F51
P/2016 J1-A	2016 05 06.29582	15 45 53.81	−06 40 04.7	20.6	T	I52
P/2016 J1-A	2016 05 06.30919	15 45 53.17	−06 39 57.0			32H06
P/2016 J1-A	2016 05 06.31501	15 45 52.91	−06 39 52.8			32H06
P/2016 J1-A	2016 05 06.32083	15 45 52.67	−06 39 49.0	20.8	T	32H06
P/2016 J1-A	2016 05 06.32129	15 45 52.75	−06 39 49.1	21.5	T	I52
P/2016 J1-A	2016 05 06.425891	15 45 48.741	−06 38 48.15	21.1	T	29 568
P/2016 J1-A	2016 05 06.427167	15 45 48.690	−06 38 47.43	21.1	T	29 568
P/2016 J1-A	2016 05 06.428444	15 45 48.637	−06 38 46.69	21.0	T	29 568
P/2016 J1-A	2016 05 07.445034	15 45 09.460	−06 29 04.53	20.9	T	29 568
P/2016 J1-A	2016 05 07.447008	15 45 09.376	−06 29 03.42	21.0	T	29 568
P/2016 J1-A	2016 05 07.448979	15 45 09.296	−06 29 02.26	20.9	T	29 568
P/2016 J1-A	2016 05 08.349285	15 44 34.03	−06 20 32.4	21.1	T	H01
P/2016 J1-A	2016 05 08.360538	15 44 33.57	−06 20 26.0	21.3	T	H01
P/2016 J1-A	2016 05 08.363089	15 44 33.47	−06 20 24.8	21.4	T	H01
P/2016 J1-A	2016 05 08.368020	15 44 33.25	−06 20 21.5	21.3	T	H01
P/2016 J1-A	2016 05 08.371138	15 44 33.13	−06 20 20.0	21.1	T	H01
P/2016 J1-A	2016 05 08.390269	15 44 32.33	−06 20 09.3	21.5	T	H01
P/2016 J1-A	2016 05 08.44485	15 44 30.11	−06 19 38.1	21.5	T	H 691
P/2016 J1-A	2016 05 08.45654	15 44 29.65	−06 19 31.4	21.1	T	H 691
P/2016 J1-A	2016 05 08.46822	15 44 29.05	−06 19 23.9	21.5	T	H 691
P/2016 J1-B	2016 05 06.425891	15 45 56.315	−06 38 47.74	21.6	T	29 568
P/2016 J1-B	2016 05 06.427167	15 45 56.262	−06 38 47.00	21.8	T	29 568
P/2016 J1-B	2016 05 07.445034	15 45 17.041	−06 29 04.07	21.5	T	29 568
P/2016 J1-B	2016 05 07.447008	15 45 16.964	−06 29 03.06	21.4	T	29 568
P/2016 J1-B	2016 05 07.448979	15 45 16.883	−06 29 01.88	21.4	T	29 568
P/2016 J1-B	2016 05 08.349285	15 44 41.63	−06 20 31.9	21.3	T	H01
P/2016 J1-B	2016 05 08.360538	15 44 41.17	−06 20 25.6	21.6	T	H01
P/2016 J1-B	2016 05 08.363089	15 44 41.07	−06 20 24.0	21.6	T	H01
P/2016 J1-B	2016 05 08.368020	15 44 40.87	−06 20 21.6	21.7	T	H01
P/2016 J1-B	2016 05 08.371138	15 44 40.74	−06 20 19.9	21.7	T	H01

C/2016 J2 (Denneau)

C/2016 J2	2016 05 06.24167	10 11 17.51	−26 12 41.4	18.1	T	T05
C/2016 J2	2016 05 06.24796	10 11 17.16	−26 11 55.1	17.8	T	T05
C/2016 J2	2016 05 06.25667	10 11 16.82	−26 10 50.3	18.1	T	T05
C/2016 J2	2016 05 06.26791	10 11 16.31	−26 09 28.1	18.1	T	T05
C/2016 J2	2016 05 06.35796	10 11 12.51	−25 58 08.7	18.8	T	474
C/2016 J2	2016 05 06.35897	10 11 12.49	−25 58 01.3	18.3	T	474
C/2016 J2	2016 05 06.35998	10 11 12.43	−25 57 54.0	18.6	T	474
C/2016 J2	2016 05 06.36098	10 11 12.40	−25 57 46.4	18.6	T	474
C/2016 J2	2016 05 06.36199	10 11 12.34	−25 57 39.2	18.0	T	474
C/2016 J2	2016 05 06.39975	10 11 10.92	−25 53 02.0	18.5	T	K E23
C/2016 J2	2016 05 06.42396	10 11 09.81	−25 50 03.9	18.2	T	K E23
C/2016 J2	2016 05 06.43554	10 11 09.32	−25 48 38.2	18.0	T	K E23
C/2016 J2	2016 05 06.43746	10 11 09.22	−25 48 24.5			1 Q62
C/2016 J2	2016 05 06.43962	10 11 09.14	−25 48 08.8			1 Q62
C/2016 J2	2016 05 06.44185	10 11 08.99	−25 47 52.3			1 Q62
C/2016 J2	2016 05 06.44399	10 11 08.88	−25 47 36.5	15.6	T	1 Q62
C/2016 J2	2016 05 06.44663	10 11 08.66	−25 47 16.7	18.7	T	K E23
C/2016 J2	2016 05 06.46399	10 11 08.04	−25 45 08.0	18.8	T	K E23
C/2016 J2	2016 05 06.55134	10 11 04.31	−25 34 25.2	18.4	T	25Q62
C/2016 J2	2016 05 06.55375	10 11 04.22	−25 34 07.7	19.0	T	25Q62
C/2016 J2	2016 05 06.57947	10 11 03.12	−25 30 57.7	17.8	T	32Q62
C/2016 J2	2016 05 06.58366	10 11 02.96	−25 30 26.8	18.0	T	32Q62
C/2016 J2	2016 05 06.58785	10 11 02.75	−25 29 55.8	17.9	T	32Q62
C/2016 J2	2016 05 06.88814	10 10 52.07	−24 53 34.6	18.2	T	Y00
C/2016 J2	2016 05 06.90481	10 10 51.30	−24 51 33.3	18.7	T	Y00
C/2016 J2	2016 05 06.94225	10 10 49.81	−24 47 02.7	18.3	T	Y00

C/2016 J2	2016 05 06.94324	10 10 49.74	−24 46 55.4	18.1	T	Y00
C/2016 J2	2016 05 06.94424	10 10 49.64	−24 46 47.9	18.6	T	Y00
C/2016 J2	2016 05 07.119412	10 10 43.16	−24 25 54.9	18.6	T	H01
C/2016 J2	2016 05 07.128155	10 10 42.80	−24 24 52.3	18.5	T	H01
C/2016 J2	2016 05 07.136735	10 10 42.48	−24 23 50.7	18.5	T	H01
C/2016 J2	2016 05 07.142521	10 10 42.24	−24 23 09.3	18.5	T	H01
C/2016 J2	2016 05 07.272069	10 10 37.610	−24 07 41.91	18.5	T	29 568
C/2016 J2	2016 05 07.273347	10 10 37.561	−24 07 32.82	18.6	T	29 568
C/2016 J2	2016 05 07.274627	10 10 37.511	−24 07 23.58	18.5	T	29 568
C/2016 J2	2016 05 08.131919	10 10 09.54	−22 27 24.4	19.1	T	K 448
C/2016 J2	2016 05 08.13584	10 10 09.37	−22 26 56.5			12H06
C/2016 J2	2016 05 08.140310	10 10 09.24	−22 26 25.4	18.9	T	K 448
C/2016 J2	2016 05 08.14053	10 10 09.46	−22 26 25.1	19.0	T	926
C/2016 J2	2016 05 08.14151	10 10 09.12	−22 26 17.4	18.4	T	12H06
C/2016 J2	2016 05 08.14443	10 10 09.21	−22 25 56.9	18.5	T	926
C/2016 J2	2016 05 08.14833	10 10 09.07	−22 25 30.6	18.7	T	926
C/2016 J2	2016 05 08.149035	10 10 08.88	−22 25 25.9	18.4	T	K 448
C/2016 J2	2016 05 08.16581	10 10 08.44	−22 23 31.0	18.5	T	926
C/2016 J2	2016 05 08.16970	10 10 08.34	−22 23 03.6	18.8	T	926
C/2016 J2	2016 05 08.17360	10 10 08.20	−22 22 38.2	18.6	T	926
C/2016 J2	2016 05 08.81598	10 09 50.16	−21 10 09.7			F 246
C/2016 J2	2016 05 08.81612	10 09 49.91	−21 10 06.4			F 246
C/2016 J2	2016 05 08.81780	10 09 49.85	−21 10 00.7			M 246
C/2016 J2	2016 05 08.81813	10 09 49.79	−21 09 55.1			M 246
C/2016 J2	2016 05 14.01567	10 08 29.29	−12 34 58.0	18	T	C51
Geocentric position (km)	− 6200.8265	+ 2560.1942	− 1464.1987			
C/2016 J2	2016 05 14.08125	10 08 28.86	−12 29 14.5			C51
Geocentric position (km)	− 6208.6084	+ 2560.0442	− 1430.9660			
C/2016 J2	2016 05 14.14683	10 08 28.54	−12 23 32.6			C51
Geocentric position (km)	− 6216.2548	+ 2559.8263	− 1397.6593			
C/2016 J2	2016 05 14.27786	10 08 27.85	−12 12 13.5			C51
Geocentric position (km)	− 6220.0346	+ 2542.5266	− 1412.4043			
C/2016 J2	2016 05 14.40889	10 08 27.19	−12 00 56.2			C51
Geocentric position (km)	− 6223.7422	+ 2525.2182	− 1427.1053			

9P/Tempel

9P	2016 03 14.20146	12 17 20.47	+19 22 55.2	15.1	T	G45
9P	2016 03 14.20641	12 17 20.20	+19 22 57.5	15.0	T	G45
9P	2016 03 14.21153	12 17 19.92	+19 22 59.5	14.9	T	G45
9P	2016 03 14.21672	12 17 19.66	+19 23 02.0	15.0	T	G45
9P	2016 03 16.92055	12 14 59.01	+19 41 43.7	14.6	N	585
9P	2016 03 16.92268	12 14 58.83	+19 41 44.8	15.1	N	585
9P	2016 03 16.92551	12 14 58.68	+19 41 46.2	15.2	N	585
9P	2016 03 16.92622	12 14 58.63	+19 41 46.5	15.0	N	585
9P	2016 03 16.92692	12 14 58.59	+19 41 46.2	15.0	N	585
9P	2016 03 16.92763	12 14 58.54	+19 41 47.3	14.9	N	585
9P	2016 03 16.92905	12 14 58.48	+19 41 47.7	15.1	N	585
9P	2016 03 16.92976	12 14 58.42	+19 41 47.2	15.1	N	585
9P	2016 03 16.93047	12 14 58.39	+19 41 47.8	15.0	N	585
9P	2016 03 16.93259	12 14 58.31	+19 41 48.4	14.5	N	585
9P	2016 03 16.93330	12 14 58.27	+19 41 49.0	14.5	N	585
9P	2016 03 16.93400	12 14 58.23	+19 41 49.2	14.5	N	585
9P	2016 03 16.97796	12 14 55.90	+19 42 07.3	15.0	N	K B50
9P	2016 03 16.97996	12 14 55.82	+19 42 09.2	15.0	N	K B50
9P	2016 03 16.98514	12 14 55.53	+19 42 09.6	15.8	N	K B50
9P	2016 03 28.04325	12 04 18.16	+20 39 17.8	14.7	N	585
9P	2016 03 28.04396	12 04 18.11	+20 39 18.0	14.8	N	585
9P	2016 03 28.04466	12 04 18.07	+20 39 18.1	14.8	N	585
9P	2016 03 28.04537	12 04 18.03	+20 39 18.2	14.7	N	585
9P	2016 03 28.04608	12 04 17.98	+20 39 18.5	14.8	N	585
9P	2016 03 28.04679	12 04 17.94	+20 39 18.7	14.8	N	585
9P	2016 03 28.04750	12 04 17.90	+20 39 18.7	14.8	N	585
9P	2016 04 02.02509	11 59 21.65	+20 51 57.6	15.2	N	B50
9P	2016 04 02.02925	11 59 21.43	+20 51 59.0	14.0	N	B50
9P	2016 04 02.03162	11 59 21.23	+20 51 59.3	15.2	N	K B50
9P	2016 04 02.03331	11 59 21.17	+20 51 59.3	13.8	N	B50
9P	2016 04 05.00207	11 56 29.22	+20 54 58.3	14.7	N	585
9P	2016 04 05.00278	11 56 29.18	+20 54 58.3	14.7	N	585
9P	2016 04 05.00349	11 56 29.14	+20 54 58.3	14.7	N	585
9P	2016 04 05.00420	11 56 29.10	+20 54 58.4	14.6	N	585
9P	2016 04 05.00490	11 56 29.05	+20 54 58.3	14.6	N	585
9P	2016 04 05.00561	11 56 29.01	+20 54 58.3	14.7	N	585
9P	2016 04 05.00632	11 56 28.97	+20 54 58.4	14.6	N	585
9P	2016 04 05.00703	11 56 28.93	+20 54 58.4	14.6	N	585
9P	2016 04 05.46745	11 56 03.41	+20 55 08.2	14.0	T	D95
9P	2016 04 05.46964	11 56 03.29	+20 55 08.2			D95
9P	2016 04 05.47620	11 56 02.89	+20 55 08.4			D95
9P	2016 04 05.94936	11 55 35.92	+20 55 11.5	15.1	N	K 160
9P	2016 04 05.95212	11 55 35.76	+20 55 11.5	15.1	N	K 160
9P	2016 04 05.95490	11 55 35.58	+20 55 11.4	15.2	N	K 160
9P	2016 04 06.98176	11 54 38.48	+20 54 58.6	15.2	N	K 160
9P	2016 04 06.98451	11 54 38.32	+20 54 58.5	15.2	N	K 160
9P	2016 04 06.98725	11 54 38.14	+20 54 58.3	15.3	N	K 160
9P	2016 04 12.95161	11 49 30.98	+20 44 56.9	15.2	N	K 160
9P	2016 04 12.95436	11 49 30.84	+20 44 56.4	15.1	N	K 160
9P	2016 04 12.95714	11 49 30.71	+20 44 56.1	15.9	N	K 160
9P	2016 04 15.65436	11 47 28.74	+20 35 27.6	13.9	T	349
9P	2016 04 15.65936	11 47 28.52	+20 35 26.3			349
9P	2016 04 18.86032	11 45 21.01	+20 20 14.1			107
9P	2016 04 18.88174	11 45 20.14	+20 20 06.9			107
9P	2016 04 18.90459	11 45 19.24	+20 20 00.0			107
9P	2016 04 18.92028	11 45 18.61	+20 19 55.7	15.7	N	K 160
9P	2016 04 18.92297	11 45 18.50	+20 19 54.8	15.7	N	K 160
9P	2016 04 18.92567	11 45 18.39	+20 19 53.8	15.7	N	K 160
9P	2016 04 19.93568	11 44 42.20	+20 14 12.4	15.9	N	K 160
9P	2016 04 19.93843	11 44 42.10	+20 14 11.5	16.0	N	K 160
9P	2016 04 19.94117	11 44 42.00	+20 14 10.2	15.9	N	K 160
9P	2016 04 20.34130	11 44 28.37	+20 11 50.6	15.1	T	T05
9P	2016 04 20.34561	11 44 28.26	+20 11 49.2	15.1	T	T05
9P	2016 04 20.37209	11 44 27.23	+20 11 39.6	15.2	T	T05
9P	2016 04 20.37687	11 44 27.06	+20 11 37.6	15.2	T	T05
9P	2016 04 20.88150	11 44 10.35	+20 08 29.2	14.9	N	C23
9P	2016 04 20.88450	11 44 10.25	+20 08 28.2	14.9	N	C23
9P	2016 04 20.88750	11 44 10.16	+20 08 27.2	15.0	N	C23
9P	2016 04 21.85277	11 43 39.36	+20 02 16.9	16.5	N	C47
9P	2016 04 21.85609	11 43 39.25	+20 02 15.4	16.3	N	C47

9P	2016 04 21.85978	11 43 39.11	+20 02 13.8	16.2	N	C47	9P	2016 04 27.95632	11 41 10.69	+19 14 52.3	14.4	N	585
9P	2016 04 21.86347	11 43 39.00	+20 02 12.3	15.8	N	C47	9P	2016 04 27.95703	11 41 10.68	+19 14 51.9	14.5	N	585
9P	2016 04 21.86716	11 43 38.87	+20 02 10.7	16.0	N	C47	9P	2016 04 27.95724	11 41 10.87	+19 14 50.9	14.9	N	I81
9P	2016 04 21.87084	11 43 38.77	+20 02 09.7	16.2	N	C47	9P	2016 04 27.95773	11 41 10.67	+19 14 51.6	14.5	N	585
9P	2016 04 22.43912	11 43 21.20	+19 58 23.0	15.2	T	T05	9P	2016 04 27.95844	11 41 10.66	+19 14 51.2	14.5	N	585
9P	2016 04 22.44114	11 43 21.16	+19 58 22.3	14.9	T	T05	9P	2016 04 27.95915	11 41 10.64	+19 14 50.8	14.4	N	585
9P	2016 04 22.46092	11 43 20.46	+19 58 13.6	15.2	T	T05	9P	2016 04 27.95986	11 41 10.63	+19 14 50.4	14.5	N	585
9P	2016 04 22.46295	11 43 20.46	+19 58 13.1	14.9	T	T05	9P	2016 04 27.96056	11 41 10.62	+19 14 49.9	14.4	N	585
9P	2016 04 22.48221	11 43 19.84	+19 58 04.9	15.2	T	T05	9P	2016 04 27.96127	11 41 10.61	+19 14 49.5	14.4	N	585
9P	2016 04 22.48426	11 43 19.76	+19 58 04.0	14.9	T	T05	9P	2016 04 27.96198	11 41 10.59	+19 14 49.2	14.4	N	585
9P	2016 04 22.50362	11 43 19.14	+19 57 55.3	15.2	T	T05	9P	2016 04 28.38943	11 41 03.42	+19 11 02.9	15.0	T	T05
9P	2016 04 22.50587	11 43 19.08	+19 57 54.8	14.8	T	T05	9P	2016 04 28.40843	11 41 03.05	+19 10 52.5	15.0	T	T05
9P	2016 04 23.87552	11 42 41.25	+19 48 09.7	14.8	N	I99	9P	2016 04 28.42687	11 41 02.69	+19 10 42.2	14.9	T	T05
9P	2016 04 23.88203	11 42 41.07	+19 48 06.6	14.8	N	I99	9P	2016 04 28.44537	11 41 02.34	+19 10 31.9	15.0	T	T05
9P	2016 04 23.89063	11 42 40.81	+19 48 03.0	14.8	N	I99	9P	2016 04 28.90697	11 40 55.36	+19 06 16.8	15.5	N	A77
9P	2016 04 24.88169	11 42 15.43	+19 40 30.3		K	C43	9P	2016 04 28.91254	11 40 55.22	+19 06 13.1	15.0	N	B83
9P	2016 04 24.88681	11 42 15.30	+19 40 27.8		K	C43	9P	2016 04 28.91287	11 40 55.24	+19 06 13.2	15.5	N	A77
9P	2016 04 24.92339	11 42 14.30	+19 40 11.6	15.9	N	C47	9P	2016 04 28.91497	11 40 55.20	+19 06 11.1	15.2	N	C23
9P	2016 04 24.92672	11 42 14.23	+19 40 09.8	15.9	N	C47	9P	2016 04 28.91872	11 40 55.15	+19 06 08.8	15.0	N	C23
9P	2016 04 24.93077	11 42 14.11	+19 40 07.9	15.5	N	C47	9P	2016 04 28.91875	11 40 55.13	+19 06 10.4	15.5	N	A77
9P	2016 04 24.93483	11 42 14.00	+19 40 05.9	15.6	N	C47	9P	2016 04 28.92321	11 40 55.06	+19 06 06.5	15.2	N	C23
9P	2016 04 24.93889	11 42 13.91	+19 40 04.2	15.8	N	C47	9P	2016 04 28.92419	11 40 55.06	+19 06 07.9	14.6	N	C90
9P	2016 04 24.94295	11 42 13.79	+19 40 02.4	16.2	N	C47	9P	2016 04 28.92683	11 40 55.01	+19 06 05.7	14.5	N	C90
9P	2016 04 25.30161	11 42 05.16	+19 37 08.1	13.8	T	703	9P	2016 04 28.93001	11 40 54.90	+19 06 03.3	15.0	N	B83
9P	2016 04 25.30762	11 42 05.03	+19 37 05.4	13.8	T	703	9P	2016 04 28.93212	11 40 54.91	+19 06 03.8	14.6	N	C90
9P	2016 04 25.31364	11 42 04.82	+19 37 02.2	13.8	T	703	9P	2016 04 28.94611	11 40 54.62	+19 05 54.2	15.0	N	B83
9P	2016 04 25.31965	11 42 04.69	+19 36 58.6	13.8	T	703	9P	2016 04 29.12142	11 40 52.20	+19 04 18.3	15.0	N	850
9P	2016 04 25.80447	11 41 54.07	+19 33 11.9			107	9P	2016 04 29.13933	11 40 51.86	+19 04 08.9	15.1	N	850
9P	2016 04 25.81692	11 41 53.83	+19 33 06.3	15.3	N	K14	9P	2016 04 29.15723	11 40 51.55	+19 03 58.8	15.1	N	850
9P	2016 04 25.84589	11 41 53.05	+19 32 52.1			107	9P	2016 04 29.17520	11 40 51.23	+19 03 48.6	15.0	N	850
9P	2016 04 25.85381	11 41 52.90	+19 32 48.2	15.3	N	K14	9P	2016 04 29.19310	11 40 50.91	+19 03 38.1	15.1	N	850
9P	2016 04 25.85389	11 41 53.01	+19 32 46.6	14.6	N	C35	9P	2016 04 29.20206	11 40 50.77	+19 03 33.7	15.1	N	850
9P	2016 04 25.85465	11 41 52.97	+19 32 47.1	14.6	N	C35	9P	2016 04 29.22000	11 40 50.42	+19 03 23.1	15.0	N	850
9P	2016 04 25.85541	11 41 52.95	+19 32 46.2	14.6	N	C35	9P	2016 04 29.23797	11 40 50.14	+19 03 12.4	15.0	N	850
9P	2016 04 25.86622	11 41 52.49	+19 32 41.0	15.2	N	A71	9P	2016 04 29.25591	11 40 49.82	+19 03 02.3	15.0	N	850
9P	2016 04 25.86912	11 41 52.43	+19 32 39.7	15.2	N	A71	9P	2016 04 29.27394	11 40 49.55	+19 02 52.5	15.0	N	850
9P	2016 04 25.87203	11 41 52.35	+19 32 38.3	15.1	N	A71	9P	2016 04 29.29185	11 40 49.30	+19 02 41.6	15.1	N	850
9P	2016 04 25.88874	11 41 51.97	+19 32 31.1			107	9P	2016 04 29.30980	11 40 49.04	+19 02 31.1	15.1	N	850
9P	2016 04 25.89383	11 41 51.87	+19 32 28.1	14.5	N	K K21	9P	2016 04 29.32775	11 40 48.76	+19 02 21.3	15.1	N	850
9P	2016 04 25.90196	11 41 51.67	+19 32 24.1	14.5	N	K K21	9P	2016 04 29.86436	11 40 41.85	+18 57 14.8	15.2	N	K A77
9P	2016 04 25.90975	11 41 51.48	+19 32 20.2	14.5	N	K K21	9P	2016 04 29.87025	11 40 41.78	+18 57 12.6	15.4	N	K A77
9P	2016 04 26.55632	11 41 37.61	+19 27 00.4			K D81	9P	2016 04 29.87633	11 40 41.67	+18 57 08.2	15.3	N	K A77
9P	2016 04 26.55927	11 41 37.52	+19 26 58.9			K D81	9P	2016 04 29.89372	11 40 41.21	+18 56 56.7	14.4	N	585
9P	2016 04 26.56224	11 41 37.50	+19 26 57.3			K D81	9P	2016 04 29.89443	11 40 41.20	+18 56 57.9	14.5	N	585
9P	2016 04 26.56492	11 41 37.35	+19 26 55.9	13.8	T	K D81	9P	2016 04 29.89513	11 40 41.19	+18 56 57.5	14.5	N	585
9P	2016 04 27.91638	11 41 11.54	+19 15 13.8	15.2	N	A71	9P	2016 04 29.89584	11 40 41.18	+18 56 57.0	14.5	N	585
9P	2016 04 27.91998	11 41 11.46	+19 15 12.0	15.2	N	A71	9P	2016 04 29.89655	11 40 41.18	+18 56 56.6	14.5	N	585
9P	2016 04 27.94587	11 41 11.09	+19 14 57.1	14.9	N	I81	9P	2016 04 29.89726	11 40 41.16	+18 56 56.2	14.5	N	585
9P	2016 04 27.95156	11 41 10.98	+19 14 54.0	14.9	N	I81	9P	2016 04 29.89797	11 40 41.16	+18 56 55.8	14.5	N	585
9P	2016 04 27.95349	11 41 10.75	+19 14 53.9	14.5	N	585	9P	2016 04 29.89867	11 40 41.14	+18 56 55.4	14.5	N	585
9P	2016 04 27.95419	11 41 10.73	+19 14 53.2	14.5	N	585	9P	2016 04 29.89938	11 40 41.13	+18 56 54.9	14.5	N	585
9P	2016 04 27.95490	11 41 10.73	+19 14 53.1	14.5	N	585	9P	2016 04 29.90009	11 40 41.12	+18 56 54.5	14.5	N	585
9P	2016 04 27.95561	11 41 10.71	+19 14 52.9	14.5	N	585	9P	2016 04 29.90150	11 40 41.10	+18 56 53.8	14.5	N	585

9P	2016 04 29.90221	11 40 41.09	+18 56 53.4	14.5	N	585
9P	2016 04 29.90292	11 40 41.08	+18 56 53.0	14.5	N	585
9P	2016 04 29.90363	11 40 41.07	+18 56 52.5	14.5	N	585
9P	2016 04 29.90433	11 40 41.06	+18 56 52.1	14.5	N	585
9P	2016 04 29.90575	11 40 41.04	+18 56 51.2	14.5	N	585
9P	2016 04 29.94287	11 40 40.65	+18 56 29.8	15.2	N	K02
9P	2016 04 29.96264	11 40 40.36	+18 56 18.3	15.2	N	K02
9P	2016 04 29.96907	11 40 40.25	+18 56 14.6	15.3	N	K02
9P	2016 04 29.96947	11 40 40.33	+18 56 12.6	14.7	N	I81
9P	2016 04 29.97249	11 40 40.29	+18 56 11.0	14.7	N	I81
9P	2016 04 29.97551	11 40 40.24	+18 56 08.9	14.7	N	I81
9P	2016 04 29.99713	11 40 39.88	+18 56 01.6	15.2	N	9 G40
9P	2016 04 30.00778	11 40 39.65	+18 55 47.7	13.1	T	K 104
9P	2016 04 30.01332	11 40 39.58	+18 55 44.6	13.7	T	K 104
9P	2016 04 30.02463	11 40 39.45	+18 55 45.8	15.0	N	9 G40
9P	2016 04 30.89360	11 40 29.59	+18 47 13.8	14.8	N	I72
9P	2016 04 30.89773	11 40 29.50	+18 47 09.8	15.1	N	C23
9P	2016 04 30.90148	11 40 29.44	+18 47 07.9	15.2	N	C23
9P	2016 04 30.90372	11 40 29.42	+18 47 06.3	15.1	N	C23
9P	2016 04 30.93185	11 40 29.10	+18 46 51.6	14.7	N	I72
9P	2016 04 30.96966	11 40 28.56	+18 46 28.0	14.8	N	I72
9P	2016 05 01.85212	11 40 20.46	+18 37 32.7	14.6	N	C35
9P	2016 05 01.85265	11 40 20.54	+18 37 31.9	14.6	N	C35
9P	2016 05 01.85354	11 40 20.50	+18 37 31.8	14.6	N	C35
9P	2016 05 01.85616	11 40 20.46	+18 37 30.8	14.8	N	B20
9P	2016 05 01.86267	11 40 20.39	+18 37 26.8	14.8	N	B20
9P	2016 05 01.86311	11 40 20.41	+18 37 24.6	14.9	N	C23
9P	2016 05 01.86836	11 40 20.34	+18 37 21.6	15.0	N	C23
9P	2016 05 01.87352	11 40 20.28	+18 37 20.0	14.8	N	B20
9P	2016 05 01.87360	11 40 20.26	+18 37 17.9	14.9	N	C23
9P	2016 05 01.94469	11 40 19.63	+18 36 38.0	14.8	N	J22
9P	2016 05 01.95028	11 40 19.58	+18 36 34.3	14.8	N	J22
9P	2016 05 01.95215	11 40 19.54	+18 36 33.6	14.8	N	J22
9P	2016 05 02.39221	11 40 15.97	+18 31 59.2	15.3	T	T05
9P	2016 05 02.41117	11 40 15.76	+18 31 46.9	15.3	T	T05
9P	2016 05 02.43022	11 40 15.61	+18 31 35.1	15.3	T	T05
9P	2016 05 02.44931	11 40 15.41	+18 31 22.8	15.3	T	T05
9P	2016 05 02.86721	11 40 13.18	+18 26 57.0	16.2	N	J01
9P	2016 05 02.87797	11 40 13.10	+18 26 50.9	16.2	N	J01
9P	2016 05 02.89163	11 40 12.96	+18 26 42.2	14.8	N	I72
9P	2016 05 02.89737	11 40 12.93	+18 26 38.4	16.3	N	J01
9P	2016 05 02.90843	11 40 12.72	+18 26 30.9	15.2	N	C77
9P	2016 05 02.91273	11 40 12.67	+18 26 28.1	15.2	N	C77
9P	2016 05 02.91703	11 40 12.65	+18 26 25.2	15.2	N	C77
9P	2016 05 02.92347	11 40 12.59	+18 26 21.1	15.2	N	C77
9P	2016 05 02.92364	11 40 12.68	+18 26 21.8	14.9	N	I72
9P	2016 05 02.95545	11 40 12.40	+18 26 01.3	14.8	N	I72
9P	2016 05 02.97994	11 40 12.25	+18 25 42.6	14.9	N	I81
9P	2016 05 02.98655	11 40 12.19	+18 25 40.9	14.7	N	J38
9P	2016 05 02.98791	11 40 12.19	+18 25 37.1	14.9	N	I81
9P	2016 05 02.99117	11 40 12.16	+18 25 37.4	14.7	N	J38
9P	2016 05 02.99348	11 40 12.13	+18 25 35.9	14.6	N	J38
9P	2016 05 02.99360	11 40 12.16	+18 25 33.8	14.9	N	I81
9P	2016 05 03.86846	11 40 08.28	+18 16 10.2	14.7	N	458
9P	2016 05 03.87307	11 40 08.34	+18 16 07.7	14.7	N	458
9P	2016 05 03.89847	11 40 08.15	+18 15 51.0	14.9	N	I72
9P	2016 05 03.91844	11 40 07.99	+18 15 35.7	14.8	N	C23
9P	2016 05 03.92443	11 40 07.95	+18 15 32.1	15.0	N	C23
9P	2016 05 03.93024	11 40 07.95	+18 15 30.0	14.9	N	I72
9P	2016 05 03.93267	11 40 07.89	+18 15 26.6	15.2	N	C23
9P	2016 05 03.96046	11 40 07.77	+18 15 10.1	14.8	N	I72
9P	2016 05 04.24620	11 40 06.78	+18 12 01.6	14.8	N	H45
9P	2016 05 04.24902	11 40 06.76	+18 11 59.7	14.9	N	H45
9P	2016 05 04.25106	11 40 06.76	+18 11 58.4	14.8	N	H45
9P	2016 05 04.86443	11 40 05.88	+18 05 06.7	14.9	N	B83
9P	2016 05 04.87195	11 40 05.84	+18 05 01.7	15.8	N	K A77
9P	2016 05 04.87835	11 40 05.82	+18 04 57.5	16.0	N	K A77
9P	2016 05 04.88770	11 40 05.75	+18 04 50.7	15.8	N	K A77
9P	2016 05 04.90422	11 40 05.73	+18 04 39.5	15.7	N	B83
9P	2016 05 04.91480	11 40 05.74	+18 04 32.3	16.0	N	B83
9P	2016 05 04.98851	11 40 05.39	+18 03 42.7	15.3	N	K 160
9P	2016 05 04.99053	11 40 05.38	+18 03 41.3	15.5	N	K 160
9P	2016 05 04.99255	11 40 05.37	+18 03 39.7	15.1	N	K 160
9P	2016 05 05.88116	11 40 05.77	+17 53 30.5			107
9P	2016 05 05.90116	11 40 05.75	+17 53 16.4			107
9P	2016 05 05.90860	11 40 05.69	+17 53 10.7	15.2	N	K 160
9P	2016 05 05.91134	11 40 05.69	+17 53 08.8	15.2	N	K 160
9P	2016 05 05.91407	11 40 05.72	+17 53 07.6	15.2	N	K 160
9P	2016 05 05.92258	11 40 05.72	+17 53 01.4			107
9P	2016 05 06.82952	11 40 08.26	+17 42 17.2	13.5	T	K 104
9P	2016 05 06.83504	11 40 08.27	+17 42 13.0	13.5	T	K 104
9P	2016 05 06.84570	11 40 08.25	+17 42 05.4	13.5	T	K 104
9P	2016 05 06.86650	11 40 08.15	+17 41 55.6	15.1	N	A71
9P	2016 05 06.87152	11 40 08.17	+17 41 52.2	14.0	N	A77
9P	2016 05 06.87231	11 40 08.16	+17 41 51.4	15.1	N	A71
9P	2016 05 06.87817	11 40 08.16	+17 41 47.4	15.2	N	A71
9P	2016 05 06.88020	11 40 08.19	+17 41 46.1	14.3	N	A77
9P	2016 05 06.89178	11 40 08.15	+17 41 38.0	14.7	N	A77
9P	2016 05 06.90224	11 40 08.21	+17 41 31.0	15.2	N	K 160
9P	2016 05 06.90341	11 40 08.28	+17 41 28.9	15.0	N	C23
9P	2016 05 06.90498	11 40 08.22	+17 41 29.0	15.2	N	K 160
9P	2016 05 06.90773	11 40 08.25	+17 41 27.5	15.2	N	K 160
9P	2016 05 06.90940	11 40 08.30	+17 41 24.8	15.6	N	C23
9P	2016 05 06.91764	11 40 08.31	+17 41 18.1	15.0	N	C23
9P	2016 05 07.10791	11 40 09.23	+17 39 04.8	14.8	N	K H47
9P	2016 05 07.11214	11 40 09.26	+17 39 00.5	14.6	T	V83
9P	2016 05 07.11914	11 40 09.26	+17 38 56.7	14.7	N	K H47
9P	2016 05 07.11970	11 40 09.27	+17 38 55.1	14.5	T	V83
9P	2016 05 07.12749	11 40 09.28	+17 38 49.4	14.5	T	V83
9P	2016 05 07.13377	11 40 09.27	+17 38 46.1	14.8	N	K H47
9P	2016 05 07.13431	11 40 09.29	+17 38 44.3	14.6	T	V83
9P	2016 05 07.14271	11 40 09.32	+17 38 38.3	14.5	T	V83
9P	2016 05 07.14882	11 40 09.33	+17 38 33.7	14.5	T	V83
9P	2016 05 08.90542	11 40 20.47	+17 17 02.8	15.5	N	C23
9P	2016 05 08.91141	11 40 20.53	+17 16 58.2	15.2	N	C23
9P	2016 05 08.91965	11 40 20.58	+17 16 51.6	15.0	N	C23

9P	2016 05 08.94457	11 40 20.75	+17 16 33.2	15.3	N	K02
9P	2016 05 08.94900	11 40 20.78	+17 16 29.8	15.0	N	K02
9P	2016 05 08.95345	11 40 20.82	+17 16 26.7	15.7	N	K02
9P	2016 05 09.86988	11 40 29.82	+17 04 50.7	15.3	N	A71
9P	2016 05 09.87708	11 40 29.93	+17 04 45.0	15.8	N	A71
9P	2016 05 09.89147	11 40 30.00	+17 04 34.1	15.2	N	A71
9P	2016 05 11.88396	11 40 56.59	+16 38 31.5	15.5	N	K 958
9P	2016 05 11.89246	11 40 56.68	+16 38 24.5	15.5	N	K 958
9P	2016 05 11.90097	11 40 56.80	+16 38 17.8	15.5	N	K 958
9P	2016 05 11.92565	11 40 57.21	+16 38 00.3	14.8	N	J22
9P	2016 05 11.92935	11 40 57.27	+16 37 57.8	14.8	N	J22
9P	2016 05 11.93308	11 40 57.28	+16 37 54.9	14.8	N	J22
9P	2016 05 12.51400	11 41 06.87	+16 30 04.3			K 367
9P	2016 05 12.51439	11 41 06.81	+16 30 03.6			K D88
9P	2016 05 12.51522	11 41 06.89	+16 30 03.1			K 367
9P	2016 05 12.51684	11 41 06.91	+16 30 01.9	13.2	T	K 367
9P	2016 05 12.51758	11 41 06.87	+16 30 01.1	13.8	T	K D88
9P	2016 05 12.54132	11 41 07.33	+16 29 42.2			K D81
9P	2016 05 12.54732	11 41 07.32	+16 29 37.1			K D81
9P	2016 05 12.55333	11 41 07.46	+16 29 31.7			K D81
9P	2016 05 12.55934	11 41 07.56	+16 29 26.4	13.7	T	K D81
9P	2016 05 12.55947	11 41 07.49	+16 29 27.0			900
9P	2016 05 12.56661	11 41 07.60	+16 29 21.3	13.6	T	900
9P	2016 05 12.66771	11 41 09.18	+16 27 58.5	12.8	T	372
9P	2016 05 12.67194	11 41 09.24	+16 27 55.0			372
9P	2016 05 12.87115	11 41 13.02	+16 25 09.9	14.6	N	C36
9P	2016 05 12.87166	11 41 13.06	+16 25 09.5	14.6	N	C36
9P	2016 05 12.87495	11 41 13.15	+16 25 06.5	14.5	N	C36
9P	2016 05 12.87546	11 41 13.09	+16 25 06.5	14.5	N	C36
9P	2016 05 12.87627	11 41 13.11	+16 25 05.3	14.6	N	C36
9P	2016 05 13.11264	11 41 17.63	+16 21 55.4	14.3	N	H45
9P	2016 05 13.11436	11 41 17.66	+16 21 54.0	14.2	N	H45
9P	2016 05 13.11562	11 41 17.68	+16 21 52.8	14.3	N	H45
9P	2016 05 13.11663	11 41 17.70	+16 21 52.0	14.2	N	H45
9P	2016 05 13.11830	11 41 17.72	+16 21 50.6	14.2	N	H45
9P	2016 05 13.11932	11 41 17.74	+16 21 49.7	14.2	N	H45
9P	2016 05 14.85579	11 41 53.52	+15 57 38.7	15.3	N	Z78
9P	2016 05 14.85961	11 41 53.59	+15 57 35.3	15.2	N	Z78
9P	2016 05 14.86278	11 41 53.68	+15 57 32.5	15.2	N	Z78
9P	2016 05 16.88823	11 42 44.07	+15 28 19.7	14.6	N	458
9P	2016 05 16.89312	11 42 44.21	+15 28 16.0	14.6	N	458
9P	2016 05 17.31680	11 42 56.02	+15 22 02.7	15.2	T	T05
9P	2016 05 17.32070	11 42 56.11	+15 21 59.3	15.1	T	T05
9P	2016 05 17.33002	11 42 56.37	+15 21 50.8	15.2	T	T05
9P	2016 05 17.33828	11 42 56.58	+15 21 43.7	15.1	T	T05
9P	2016 05 17.34167	11 42 56.66	+15 21 40.6	15.2	T	T05
9P	2016 05 17.34507	11 42 56.73	+15 21 37.4	15.1	T	T05
9P	2016 05 17.35983	11 42 57.12	+15 21 24.6	15.1	T	T05
9P	2016 05 17.36128	11 42 57.15	+15 21 22.9	15.3	T	T05
9P	2016 05 17.36225	11 42 57.16	+15 21 22.4	15.2	T	T05
9P	2016 05 17.88668	11 43 12.42	+15 13 32.3	14.8	N	K 203
9P	2016 05 17.91319	11 43 13.15	+15 13 08.5	14.8	N	K 203

10P/Tempel

10P	2015 03 27.72904	14 55 28.05	+02 26 21.6	17.7	T	349
10P	2015 03 27.74075	14 55 27.84	+02 26 26.9			349

14P/Wolf

14P	2016 05 02.56532	17 27 15.224	+04 01 43.03	21.4	T	F51
14P	2016 05 02.57737	17 27 14.990	+04 01 48.61	21.2	T	F51
14P	2016 05 02.58939	17 27 14.766	+04 01 54.18	21.1	T	F51
14P	2016 05 13.54905	17 22 57.454	+05 21 07.81	20.8	T	F51
14P	2016 05 13.57029	17 22 56.841	+05 21 16.61	20.9	T	F51
14P	2016 05 13.58094	17 22 56.537	+05 21 21.03	20.9	T	F51

15P/Finlay

15P	2015 02 11.39271	00 46 30.59	+08 53 14.4	11.7	T	349
15P	2015 02 11.39660	00 46 31.55	+08 53 21.5			349
15P	2015 02 11.40046	00 46 32.51	+08 53 28.8			349
15P	2015 02 21.39355	01 27 03.83	+13 38 28.7	12.4	T	349
15P	2015 02 21.39676	01 27 04.57	+13 38 33.4			349
15P	2015 03 28.43355	03 35 27.14	+24 31 49.7	14.5	T	349
15P	2015 03 28.44281	03 35 28.96	+24 31 56.6			349

19P/Borrelly

19P	2016 04 05.50354	13 47 45.42	+30 41 57.0	16.3	T	K D95
19P	2016 04 05.50677	13 47 45.19	+30 41 59.9			K D95
19P	2016 04 27.31292	13 24 52.924	+30 07 41.92	20.0	T	F51
19P	2016 04 27.32451	13 24 52.263	+30 07 38.85	20.1	T	F51
19P	2016 04 27.33616	13 24 51.600	+30 07 35.68	20.0	T	F51
19P	2016 04 27.34785	13 24 50.936	+30 07 32.62	20.2	T	F51
19P	2016 04 30.96888	13 21 36.67	+29 49 41.3	18.8	N	K C23
19P	2016 04 30.98335	13 21 35.69	+29 49 33.9	17.9	N	K C23
19P	2016 05 02.01052	13 20 43.28	+29 44 01.7	18.4	N	J22
19P	2016 05 02.01494	13 20 43.25	+29 44 00.7	18.4	N	J22
19P	2016 05 05.97276	13 17 31.54	+29 20 15.5	19.8	T	K 215
19P	2016 05 05.97430	13 17 31.47	+29 20 14.8	19.7	T	K 215
19P	2016 05 05.97585	13 17 31.40	+29 20 13.6	20.0	T	K 215
19P	2016 05 08.94432	13 15 20.07	+29 00 24.0	19.4	N	K C23
19P	2016 05 08.95732	13 15 19.38	+29 00 19.6	18.3	N	K C23

29P/Schwassmann-Wachmann

29P	2016 03 30.77047	19 45 48.82	−25 37 00.3	16.1	N	Q65
29P	2016 03 30.78065	19 45 49.13	−25 36 59.7	16.1	N	Q65
29P	2016 03 30.79197	19 45 49.38	−25 36 59.0	16.1	N	Q65
29P	2016 03 30.80193	19 45 49.65	−25 36 58.5	16.1	N	Q65
29P	2016 04 04.77755	19 48 00.43	−25 32 03.9			1 Q62
29P	2016 04 04.77839	19 48 00.46	−25 32 03.9			1 Q62
29P	2016 04 04.77924	19 48 00.47	−25 32 03.5			1 Q62
29P	2016 04 04.78009	19 48 00.49	−25 32 03.9	14.0	T	1 Q62
29P	2016 04 22.35559	19 53 39.60	−25 19 30.3	17.2	N	W96
29P	2016 04 22.38320	19 53 39.93	−25 19 29.3	17.2	N	W96
29P	2016 04 22.41355	19 53 40.34	−25 19 29.1	17.1	N	W96
29P	2016 04 23.35823	19 53 52.84	−25 19 02.1	17.0	N	W96
29P	2016 04 23.38617	19 53 53.19	−25 19 01.2	16.9	N	W96
29P	2016 04 23.41488	19 53 53.53	−25 19 00.3	16.9	N	W96
29P	2016 04 24.12618	19 54 02.55	−25 18 43.7	16.8	N	K C10
29P	2016 04 24.13810	19 54 02.71	−25 18 42.7	16.8	N	K C10

29P	2016 04 25.36398	19 54 17.29	−25 18 10.2	17.2	N	W96
29P	2016 04 25.38489	19 54 17.50	−25 18 09.6	17.3	N	W96
29P	2016 04 25.41112	19 54 17.79	−25 18 08.8	17.5	N	W96
29P	2016 04 26.34334	19 54 28.23	−25 17 47.0	17.2	N	W96
29P	2016 04 26.37836	19 54 28.62	−25 17 46.2	17.0	N	W96
29P	2016 04 26.41210	19 54 28.93	−25 17 45.5	16.8	N	W96
29P	2016 04 27.11716	19 54 36.45	−25 17 32.5	17.1	N	K C10
29P	2016 04 27.12842	19 54 36.51	−25 17 31.7	17.6	N	K C10
29P	2016 05 01.70956	19 55 16.27	−25 16 09.6	17.2	N	Q68
29P	2016 05 01.80443	19 55 16.92	−25 16 09.0	16.8	N	Q68
29P	2016 05 04.75264	19 55 34.40	−25 15 36.0	17.0	N	Q68
29P	2016 05 04.80281	19 55 34.62	−25 15 30.3	16.6	N	Q68
29P	2016 05 05.72839	19 55 38.69	−25 15 28.6	13.2	N	K Q21
29P	2016 05 05.73260	19 55 38.86	−25 15 29.4	13.2	N	K Q21
29P	2016 05 06.12079	19 55 40.47	−25 15 26.9	15.7	N	J22
29P	2016 05 06.12688	19 55 40.57	−25 15 26.8	15.7	N	J22
29P	2016 05 13.61051	19 55 49.30	−25 15 24.7	16.7	N	Q68
29P	2016 05 13.70267	19 55 49.07	−25 15 25.7	16.7	N	Q68
29P	2016 05 14.09396	19 55 48.32	−25 15 28.6	17.8	N	K A77
29P	2016 05 14.09546	19 55 48.38	−25 15 29.6	17.6	N	K A77
29P	2016 05 14.58040	19 55 47.49	−25 15 30.7	17.2	N	K E94
29P	2016 05 14.61537	19 55 47.35	−25 15 30.8	16.9	N	K E94
29P	2016 05 14.65162	19 55 47.26	−25 15 31.2	17.0	N	K E94
29P	2016 05 17.08454	19 55 39.59	−25 15 55.2	17.5	N	K A77
29P	2016 05 17.11474	19 55 39.48	−25 15 55.7	17.3	N	K A77
29P	2016 05 18.08054	19 55 35.26	−25 16 07.2	17.0	N	K A77
29P	2016 05 18.10982	19 55 35.19	−25 16 07.2	16.9	N	K A77

32P/Comas Solá

32P	2015 01 17.66539	11 51 35.22	+17 16 35.1	13.9	T	349
32P	2015 01 17.67069	11 51 35.30	+17 16 35.7			349
32P	2015 03 27.62015	11 19 47.41	+20 23 07.1	13.7	T	349
32P	2015 03 27.62723	11 19 47.14	+20 23 05.9			349
32P	2016 05 07.45204	15 41 50.593	−19 03 42.08	21.1	T	F51
32P	2016 05 07.46313	15 41 50.111	−19 03 41.35	21.3	T	F51
32P	2016 05 07.47421	15 41 49.635	−19 03 40.45	21.0	T	F51
32P	2016 05 07.48529	15 41 49.163	−19 03 39.84	21.5	T	F51

40P/Väisälä

40P	2015 03 28.71256	17 47 39.90	−09 53 41.3	16.9	T	349
40P	2015 03 28.72384	17 47 40.42	−09 53 38.8			349

47P/Ashbrook-Jackson

47P	2016 04 14.77582	19 22 06.25	−36 21 17.2			1 Q62
47P	2016 04 14.77748	19 22 06.32	−36 21 17.5			1 Q62
47P	2016 04 14.77915	19 22 06.41	−36 21 17.8	18.5	T	1 Q62

53P/Van Biesbroeck

53P	2015 03 27.68543	12 56 06.16	+00 30 19.2	17.8	T	349
53P	2015 03 27.69444	12 56 05.85	+00 30 21.6			349
53P	2016 04 14.76924	20 14 42.32	−14 25 09.7			1 Q62
53P	2016 04 14.77007	20 14 42.42	−14 25 09.6			1 Q62
53P	2016 04 14.77090	20 14 42.45	−14 25 09.3			1 Q62
53P	2016 04 14.77174	20 14 42.54	−14 25 09.2	15.1	T	1 Q62
53P	2016 04 15.76632	20 16 10.96	−14 20 16.2			D95
53P	2016 04 15.76955	20 16 11.28	−14 20 15.2			D95
53P	2016 04 15.77279	20 16 11.54	−14 20 14.9	15.0	T	D95
53P	2016 04 17.75523	20 19 05.56	−14 10 24.6			K D81
53P	2016 04 17.75790	20 19 05.91	−14 10 23.3	15.3	T	K D81
53P	2016 04 21.80666	20 24 51.13	−13 50 17.6	15.9	N	Q68
53P	2016 04 21.80992	20 24 51.41	−13 50 16.7	15.9	N	Q68
53P	2016 04 22.24988	20 25 28.27	−13 48 07.1	16.4	T	Y00
53P	2016 04 22.25915	20 25 29.01	−13 48 04.5	16.5	T	Y00
53P	2016 04 22.26845	20 25 29.80	−13 48 01.6	16.4	T	Y00
53P	2016 04 24.52506	20 28 35.18	−13 37 00.4	18	T	C51
Geocentric position (km)	+ 4733.8144	− 4772.6397	− 1417.1397			
53P	2016 04 24.65609	20 28 45.81	−13 36 22.2			C51
Geocentric position (km)	+ 4749.6869	− 4762.7723	− 1397.0044			
53P	2016 04 24.78712	20 28 56.45	−13 35 42.9			C51
Geocentric position (km)	+ 4765.4658	− 4752.8077	− 1376.9759			
53P	2016 04 24.91815	20 29 07.11	−13 35 05.3			C51
Geocentric position (km)	+ 4781.1775	− 4742.7517	− 1356.9458			
53P	2016 04 25.04931	20 29 17.66	−13 34 27.3			C51
Geocentric position (km)	+ 4777.1422	− 4728.9379	− 1418.2896			
53P	2016 04 25.11476	20 29 22.92	−13 34 08.1			C51
Geocentric position (km)	+ 4794.9055	− 4725.8080	− 1367.6523			
53P	2016 04 25.18034	20 29 28.25	−13 33 49.3			C51
Geocentric position (km)	+ 4792.8685	− 4718.9163	− 1398.3837			
53P	2016 04 25.24579	20 29 33.54	−13 33 30.0			C51
Geocentric position (km)	+ 4810.5195	− 4715.6344	− 1347.7054			
53P	2016 04 25.24592	20 29 33.56	−13 33 29.5			C51
Geocentric position (km)	+ 4790.7366	− 4711.9418	− 1429.0345			
53P	2016 04 25.31137	20 29 38.82	−13 33 11.2			C51
Geocentric position (km)	+ 4808.5529	− 4708.8102	− 1378.3783			
53P	2016 04 25.50798	20 29 54.62	−13 32 13.3			C51
Geocentric position (km)	+ 4822.0875	− 4691.7564	− 1389.2721			
53P	2016 04 25.63901	20 30 05.18	−13 31 35.8			C51
Geocentric position (km)	+ 4840.1082	− 4681.7487	− 1358.3643			
53P	2016 04 25.72207	20 30 12.00	−13 31 09.4	15.8	N	Q68
53P	2016 04 25.72575	20 30 12.31	−13 31 08.5	15.9	N	Q68
53P	2016 04 25.77004	20 30 15.66	−13 30 57.1			C51
Geocentric position (km)	+ 4855.6919	− 4671.4222	− 1338.0573			
53P	2016 04 25.90108	20 30 26.13	−13 30 19.7			C51
Geocentric position (km)	+ 4871.2010	− 4661.0042	− 1317.7678			
53P	2016 04 25.90120	20 30 26.17	−13 30 19.4			C51
Geocentric position (km)	+ 4851.6355	− 4657.7911	− 1399.2065			
53P	2016 04 26.03223	20 30 36.66	−13 29 40.8			C51
Geocentric position (km)	+ 4867.9380	− 4647.6169	− 1376.1235			
53P	2016 05 01.78710	20 38 01.43	−13 02 20.1	15.9	N	Q68
53P	2016 05 01.82086	20 38 03.88	−13 02 10.5	15.8	N	Q68
53P	2016 05 04.42866	20 41 14.82	−12 50 16.5	15.7	N	H47
53P	2016 05 04.43321	20 41 15.17	−12 50 15.4	15.9	N	H47
53P	2016 05 04.43662	20 41 15.44	−12 50 14.6	15.9	N	H47
53P	2016 05 04.81062	20 41 42.15	−12 48 28.9	15.9	N	Q68
53P	2016 05 04.81395	20 41 42.38	−12 48 28.0	15.9	N	Q68
53P	2016 05 05.08406	20 42 01.82	−12 47 20.4	16.5	N	K 215
53P	2016 05 05.08535	20 42 01.91	−12 47 20.1	16.5	N	K 215
53P	2016 05 05.08663	20 42 01.97	−12 47 19.7	16.5	N	K 215

53P	2016 05 05.42398	20 42 25.90	−12 45 47.8	15.8	N	H47
53P	2016 05 05.42645	20 42 26.07	−12 45 46.9	15.8	N	H47
53P	2016 05 05.42870	20 42 26.23	−12 45 46.5	15.8	N	H47
53P	2016 05 05.43174	20 42 26.45	−12 45 45.7	15.8	N	H47
53P	2016 05 06.44431	20 43 37.55	−12 41 15.7	14.8	T	G45
53P	2016 05 06.44444	20 43 37.58	−12 41 15.6	15.0	T	G45
53P	2016 05 06.45030	20 43 37.96	−12 41 14.0	14.9	T	G45
53P	2016 05 06.45592	20 43 38.35	−12 41 12.7	14.8	T	G45
53P	2016 05 06.46045	20 43 38.67	−12 41 11.3	14.8	T	G45
53P	2016 05 06.46147	20 43 38.73	−12 41 11.1	14.7	T	G45
53P	2016 05 08.41938	20 45 53.48	−12 32 37.2	16.2	N	H47
53P	2016 05 08.42220	20 45 53.66	−12 32 36.5	16.2	N	H47
53P	2016 05 08.42605	20 45 53.91	−12 32 35.5	16.0	N	H47
53P	2016 05 08.43197	20 45 54.32	−12 32 34.1	16.2	N	H47
53P	2016 05 08.44022	20 45 54.87	−12 32 32.0	15.3	T	G45
53P	2016 05 08.44564	20 45 55.24	−12 32 30.7	15.2	T	G45
53P	2016 05 08.45179	20 45 55.59	−12 32 29.3	15.0	T	G45
53P	2016 05 08.45740	20 45 55.98	−12 32 27.9	15.3	T	G45
53P	2016 05 11.76696	20 49 34.14	−12 18 32.0			K 367
53P	2016 05 11.76817	20 49 34.22	−12 18 31.5			K 367
53P	2016 05 11.76979	20 49 34.32	−12 18 31.3	14.6	T	K 367
53P	2016 05 12.74896	20 50 36.51	−12 14 32.9	14.8	T	372
53P	2016 05 12.75330	20 50 36.80	−12 14 31.1			372
53P	2016 05 13.68801	20 51 35.20	−12 10 42.2	15.8	N	Q68
53P	2016 05 13.71874	20 51 37.07	−12 10 35.2	15.8	N	Q68
53P	2016 05 14.38448	20 52 18.02	−12 08 02.1	15.8	N	K H47
53P	2016 05 14.39364	20 52 18.58	−12 07 59.9	16.0	N	K H47
53P	2016 05 14.40352	20 52 19.17	−12 07 57.6	16.2	N	K H47
53P	2016 05 15.68669	20 53 36.71	−12 02 55.5	15.8	N	Q68
53P	2016 05 15.70422	20 53 37.73	−12 02 51.4	15.7	N	Q68
53P	2016 05 17.40362	20 55 17.29	−11 56 35.0	14.7	T	G45
53P	2016 05 17.41481	20 55 17.91	−11 56 31.3	14.7	T	G45
53P	2016 05 17.42606	20 55 18.54	−11 56 29.2	14.8	T	G45
53P	2016 05 17.43162	20 55 18.89	−11 56 28.1	14.7	T	G45
53P	2016 05 17.43728	20 55 19.33	−11 56 27.1	15.5	T	G45
53P	2016 05 17.44846	20 55 19.82	−11 56 24.7	14.7	T	G45
53P	2016 05 17.45388	20 55 20.24	−11 56 23.6	15.4	T	G45
53P	2016 05 17.45415	20 55 20.18	−11 56 23.5	14.9	T	G45

65P/Gunn

65P	2016 03 26.97172	11 38 10.72	+14 45 57.8	14.4	T	585
65P	2016 03 26.98248	11 38 10.26	+14 45 58.2	15.8	N	585
65P	2016 03 26.98319	11 38 10.22	+14 45 58.8	16.1	N	585
65P	2016 03 26.98461	11 38 10.13	+14 45 59.3	15.8	N	585
65P	2016 03 26.98531	11 38 10.10	+14 45 59.6	15.8	N	585
65P	2016 03 26.98602	11 38 10.11	+14 45 59.9	15.9	N	585
65P	2016 03 26.98673	11 38 10.08	+14 46 00.0	15.9	N	585
65P	2016 03 26.98744	11 38 10.03	+14 45 59.4	15.9	N	585
65P	2016 03 26.98815	11 38 10.00	+14 45 59.5	16.1	N	585
65P	2016 03 26.98886	11 38 09.99	+14 46 00.5	16.0	N	585
65P	2016 03 26.98956	11 38 09.96	+14 46 00.1	16.0	N	585
65P	2016 03 26.99027	11 38 09.93	+14 46 01.1	15.8	N	585
65P	2016 03 26.99098	11 38 09.90	+14 46 00.8	16.0	N	585
65P	2016 03 26.99169	11 38 09.87	+14 46 00.6	16.0	N	585
65P	2016 03 26.99240	11 38 09.85	+14 46 00.9	15.8	N	585
65P	2016 03 26.99310	11 38 09.82	+14 46 01.2	16.0	N	585
65P	2016 03 26.99381	11 38 09.81	+14 46 01.1	16.0	N	585
65P	2016 03 28.03024	11 37 29.26	+14 48 38.3	14.4	T	585
65P	2016 03 28.03095	11 37 29.19	+14 48 38.9	16.3	N	585
65P	2016 03 28.03166	11 37 29.19	+14 48 39.7	16.1	N	585
65P	2016 03 28.03236	11 37 29.13	+14 48 39.8	16.1	N	585
65P	2016 03 28.03307	11 37 29.15	+14 48 40.2	15.8	N	585
65P	2016 03 28.03449	11 37 29.14	+14 48 40.3	16.1	N	585
65P	2016 03 28.03520	11 37 29.08	+14 48 40.4	16.3	N	585
65P	2016 03 28.03590	11 37 29.05	+14 48 40.5	16.0	N	585
65P	2016 03 28.03661	11 37 28.98	+14 48 40.3	15.9	N	585
65P	2016 03 28.03802	11 37 28.94	+14 48 40.2	15.9	N	585
65P	2016 03 28.03874	11 37 28.96	+14 48 40.2	16.0	N	585
65P	2016 03 28.03944	11 37 28.97	+14 48 40.8	16.1	N	585
65P	2016 03 28.04015	11 37 28.94	+14 48 40.6	15.9	N	585
65P	2016 04 04.98511	11 32 33.67	+15 04 39.6	16.1	N	585
65P	2016 04 04.98582	11 32 33.66	+15 04 39.8	15.9	N	585
65P	2016 04 04.98653	11 32 33.65	+15 04 40.0	16.1	N	585
65P	2016 04 04.98723	11 32 33.61	+15 04 39.9	16.0	N	585
65P	2016 04 04.98794	11 32 33.59	+15 04 40.1	16.1	N	585
65P	2016 04 04.98865	11 32 33.55	+15 04 39.6	16.0	N	585
65P	2016 04 04.98936	11 32 33.53	+15 04 40.3	16.3	N	585
65P	2016 04 04.99007	11 32 33.50	+15 04 40.7	16.1	N	585
65P	2016 04 04.99077	11 32 33.48	+15 04 40.1	16.2	N	585
65P	2016 04 04.99148	11 32 33.47	+15 04 40.3	16.3	N	585
65P	2016 04 04.99219	11 32 33.43	+15 04 39.6	16.2	N	585
65P	2016 04 04.99290	11 32 33.41	+15 04 40.3	16.0	N	585
65P	2016 04 04.99361	11 32 33.39	+15 04 40.6	16.2	N	585
65P	2016 04 04.99432	11 32 33.37	+15 04 39.8	16.4	N	585
65P	2016 04 04.99502	11 32 33.33	+15 04 40.6	16.1	N	585
65P	2016 04 04.99573	11 32 33.31	+15 04 40.0	16.3	N	585
65P	2016 04 04.99644	11 32 33.28	+15 04 40.8	16.2	N	585
65P	2016 04 04.99715	11 32 33.26	+15 04 40.2	16.1	N	585
65P	2016 04 04.99786	11 32 33.23	+15 04 41.1	16.1	N	585
65P	2016 04 05.48179	11 32 16.48	+15 05 24.6	16.0	T	D95
65P	2016 04 05.48825	11 32 16.26	+15 05 25.1			D95
65P	2016 04 05.49580	11 32 16.00	+15 05 25.7			D95
65P	2016 04 05.92730	11 32 00.95	+15 06 01.8	16.7	N	K 160
65P	2016 04 05.93006	11 32 00.86	+15 06 02.7	16.7	N	K 160
65P	2016 04 05.93282	11 32 00.73	+15 06 02.6	16.8	N	K 160
65P	2016 04 06.95946	11 31 25.59	+15 07 24.5	16.7	N	K 160
65P	2016 04 06.96222	11 31 25.50	+15 07 24.8	16.7	N	K 160
65P	2016 04 06.96496	11 31 25.44	+15 07 25.7	16.7	N	K 160
65P	2016 04 12.92959	11 28 16.13	+15 12 37.9	16.8	N	K 160
65P	2016 04 12.93225	11 28 16.05	+15 12 38.0	16.5	N	K 160
65P	2016 04 12.93510	11 28 15.97	+15 12 38.0	17.5	N	K 160
65P	2016 04 19.91679	11 25 10.76	+15 12 44.8	17.5	N	K 160
65P	2016 04 19.91913	11 25 10.70	+15 12 44.7	17.6	N	K 160
65P	2016 04 19.92147	11 25 10.67	+15 12 44.9	17.7	N	K 160
65P	2016 04 20.32473	11 25 01.34	+15 12 34.9	16.7	T	T05
65P	2016 04 20.34322	11 25 00.88	+15 12 34.4	16.8	T	T05

65P	2016 04 20.35847	11 25 00.44	+15 12 34.7	17.1	T		T05
65P	2016 04 20.37161	11 25 00.18	+15 12 33.5	16.8	T		T05
65P	2016 04 20.89102	11 24 48.43	+15 12 15.4	17.0	N	K	C23
65P	2016 04 20.89535	11 24 48.29	+15 12 15.2	16.6	N	K	C23
65P	2016 04 20.89968	11 24 48.21	+15 12 14.6	16.6	N	K	C23
65P	2016 04 21.46892	11 24 35.53	+15 11 58.8	16.7	N	K	Q68
65P	2016 04 21.49474	11 24 34.95	+15 11 56.6	16.8	N	K	Q68
65P	2016 04 23.98896	11 23 42.99	+15 09 52.5	17.0	N	9	G40
65P	2016 04 24.00043	11 23 42.76	+15 09 51.8	17.0	N	9	G40
65P	2016 04 25.87589	11 23 07.74	+15 07 48.2	16.8	N		A71
65P	2016 04 25.88170	11 23 07.64	+15 07 47.7	16.9	N		A71
65P	2016 04 25.88753	11 23 07.52	+15 07 47.4	16.7	N		A71
65P	2016 04 26.85180	11 22 50.82	+15 06 33.9	16.5	N	K	C43
65P	2016 04 26.86573	11 22 50.60	+15 06 33.6	16.5	N	K	C43
65P	2016 04 27.88089	11 22 34.04	+15 05 07.6	16.8	N		A71
65P	2016 04 27.88449	11 22 33.98	+15 05 07.1	16.9	N		A71
65P	2016 04 27.88808	11 22 33.93	+15 05 06.9	16.7	N		A71
65P	2016 04 27.89168	11 22 33.87	+15 05 06.5	16.9	N		A71
65P	2016 04 27.92255	11 22 33.40	+15 05 04.2	16.3	N	K	I81
65P	2016 04 27.93228	11 22 33.23	+15 05 03.1	16.2	N	K	I81
65P	2016 04 27.93862	11 22 33.11	+15 05 02.6	16.5	N	K	I81
65P	2016 04 27.94160	11 22 33.03	+15 05 01.9	16.2	N		585
65P	2016 04 27.94231	11 22 33.03	+15 05 02.4	16.3	N		585
65P	2016 04 27.94301	11 22 33.00	+15 05 02.0	16.2	N		585
65P	2016 04 27.94372	11 22 32.99	+15 05 01.5	16.5	N		585
65P	2016 04 27.94443	11 22 33.00	+15 05 01.0	16.3	N		585
65P	2016 04 27.94514	11 22 32.97	+15 05 01.3	16.5	N		585
65P	2016 04 27.94585	11 22 32.93	+15 05 01.8	16.5	N		585
65P	2016 04 27.94655	11 22 32.92	+15 05 01.9	16.3	N		585
65P	2016 04 27.94726	11 22 32.93	+15 05 01.9	16.6	N		585
65P	2016 04 27.94798	11 22 32.91	+15 05 01.9	16.5	N		585
65P	2016 04 27.94940	11 22 32.90	+15 05 01.5	16.5	N		585
65P	2016 04 28.37394	11 22 26.33	+15 04 25.4	17.0	T		T05
65P	2016 04 28.38136	11 22 26.21	+15 04 24.4	16.7	T		T05
65P	2016 04 28.39253	11 22 26.02	+15 04 23.8	16.9	T		T05
65P	2016 04 28.40043	11 22 25.92	+15 04 22.8	16.7	T		T05
65P	2016 04 28.41156	11 22 25.75	+15 04 21.7	17.0	T		T05
65P	2016 04 28.41923	11 22 25.56	+15 04 21.1	16.7	T		T05
65P	2016 04 28.42984	11 22 25.41	+15 04 20.6	17.1	T		T05
65P	2016 04 28.43753	11 22 25.29	+15 04 20.0	16.7	T		T05
65P	2016 04 28.91508	11 22 18.21	+15 03 33.2	16.4	N	K	K21
65P	2016 04 28.92487	11 22 18.05	+15 03 31.7	16.4	N	K	K21
65P	2016 04 28.93388	11 22 17.92	+15 03 31.3	16.6	N	K	K21
65P	2016 04 29.83150	11 22 05.11	+15 02 01.4	16.7	N		C36
65P	2016 04 29.83588	11 22 05.08	+15 02 01.2	16.7	N		C36
65P	2016 04 29.84027	11 22 05.01	+15 02 00.4	16.5	N		C36
65P	2016 04 29.84291	11 22 04.93	+15 02 00.0	16.8	N		C36
65P	2016 04 29.84729	11 22 04.86	+15 01 59.5	16.6	N		C36
65P	2016 04 29.84905	11 22 04.87	+15 02 00.3	16.5	N		C36
65P	2016 04 29.96567	11 22 03.20	+15 01 48.2	16.4	N		585
65P	2016 04 29.96637	11 22 03.18	+15 01 47.5	16.3	N		585
65P	2016 04 29.96708	11 22 03.20	+15 01 48.4	16.4	N		585
65P	2016 04 29.96779	11 22 03.15	+15 01 48.2	16.4	N		585
65P	2016 04 29.96850	11 22 03.15	+15 01 47.8	16.4	N		585
65P	2016 04 29.96921	11 22 03.14	+15 01 47.6	16.4	N		585
65P	2016 04 29.96992	11 22 03.12	+15 01 47.2	16.5	N		585
65P	2016 04 29.97063	11 22 03.11	+15 01 47.0	16.6	N		585
65P	2016 04 29.97133	11 22 03.14	+15 01 47.9	16.4	N		585
65P	2016 04 29.97204	11 22 03.10	+15 01 47.6	16.5	N		585
65P	2016 04 29.97275	11 22 03.11	+15 01 47.4	16.8	N		585
65P	2016 04 29.97346	11 22 03.05	+15 01 46.9	16.3	N		585
65P	2016 04 29.97417	11 22 03.07	+15 01 47.2	16.4	N		585
65P	2016 04 29.97488	11 22 03.07	+15 01 47.2	16.5	N		585
65P	2016 04 29.97558	11 22 03.05	+15 01 46.4	16.5	N		585
65P	2016 04 29.97629	11 22 03.05	+15 01 47.2	16.4	N		585
65P	2016 04 29.97700	11 22 03.03	+15 01 46.6	16.7	N		585
65P	2016 04 30.89242	11 21 50.97	+15 00 10.3	16.4	N		I72
65P	2016 04 30.90597	11 21 50.84	+15 00 08.1	17.0	N		C23
65P	2016 04 30.90741	11 21 50.78	+15 00 07.9	16.4	N		C23
65P	2016 04 30.91145	11 21 50.76	+15 00 08.3	16.4	N		I72
65P	2016 04 30.91174	11 21 50.78	+15 00 07.0	16.6	N		C23
65P	2016 04 30.92662	11 21 50.52	+15 00 05.8	16.9	N		K02
65P	2016 04 30.93063	11 21 50.49	+15 00 05.4	16.4	N		I72
65P	2016 04 30.93108	11 21 50.47	+15 00 05.4	16.5	N		K02
65P	2016 04 30.93559	11 21 50.40	+15 00 04.5	17.0	N		K02
65P	2016 05 01.47557	11 21 43.75	+14 59 08.2	16.8	N		Q68
65P	2016 05 01.50147	11 21 43.36	+14 59 04.5	16.7	N		Q68
65P	2016 05 01.86780	11 21 39.08	+14 58 19.9	16.4	N		C35
65P	2016 05 01.87127	11 21 38.98	+14 58 19.2	16.4	N		C35
65P	2016 05 01.87481	11 21 38.93	+14 58 18.4	16.4	N		C35
65P	2016 05 01.90914	11 21 38.55	+14 58 15.5	16.5	N		J22
65P	2016 05 01.91135	11 21 38.50	+14 58 15.2	16.5	N		J22
65P	2016 05 01.91794	11 21 38.46	+14 58 13.7	16.5	N		J22
65P	2016 05 02.37681	11 21 33.08	+14 57 21.0	17.4	T		T05
65P	2016 05 02.38459	11 21 32.99	+14 57 19.3	17.1	T		T05
65P	2016 05 02.39565	11 21 32.86	+14 57 18.0	17.3	T		T05
65P	2016 05 02.40356	11 21 32.77	+14 57 17.2	17.2	T		T05
65P	2016 05 02.41470	11 21 32.70	+14 57 16.0	17.2	T		T05
65P	2016 05 02.42249	11 21 32.54	+14 57 14.9	17.1	T		T05
65P	2016 05 02.43380	11 21 32.40	+14 57 13.6	17.3	T		T05
65P	2016 05 02.44142	11 21 32.31	+14 57 12.5	17.0	T		T05
65P	2016 05 02.88901	11 21 27.46	+14 56 14.6	16.9	N	K	K61
65P	2016 05 02.89045	11 21 27.51	+14 56 15.6	16.5	N		I72
65P	2016 05 02.89063	11 21 27.51	+14 56 14.8	17.0	N	K	K61
65P	2016 05 02.89204	11 21 27.48	+14 56 14.8	17.0	N	K	K61
65P	2016 05 02.92250	11 21 27.14	+14 56 11.4	16.5	N		I72
65P	2016 05 02.95434	11 21 26.79	+14 56 07.7	16.6	N		I72
65P	2016 05 02.99724	11 21 26.27	+14 56 01.3	17.1	N		I81
65P	2016 05 03.00292	11 21 26.20	+14 56 00.5	17.1	N		I81
65P	2016 05 03.00860	11 21 26.21	+14 56 00.0	17.0	N		I81
65P	2016 05 03.89730	11 21 17.22	+14 54 06.6	16.5	N		I72
65P	2016 05 03.92911	11 21 16.89	+14 54 02.3	16.6	N		I72
65P	2016 05 03.95932	11 21 16.57	+14 53 58.3	16.6	N		I72
65P	2016 05 04.24060	11 21 13.89	+14 53 20.9	16.5	N		H45
65P	2016 05 04.24335	11 21 13.87	+14 53 20.6	16.5	N		H45
65P	2016 05 04.24512	11 21 13.83	+14 53 20.3	16.5	N		H45

65P	2016 05 04.41682	11 21 12.39	+14 53 01.0	16.8	N	Q68
65P	2016 05 04.44423	11 21 12.08	+14 52 57.2	16.8	N	Q68
65P	2016 05 04.97907	11 21 07.22	+14 51 39.6	17.1	N	K 160
65P	2016 05 04.98110	11 21 07.17	+14 51 38.3	17.3	N	K 160
65P	2016 05 05.46205	11 21 03.31	+14 50 35.4	16.7	N	Q68
65P	2016 05 05.48773	11 21 03.06	+14 50 31.8	16.7	N	Q68
65P	2016 05 05.89461	11 20 59.88	+14 49 28.8	17.0	N	K 160
65P	2016 05 05.89735	11 20 59.86	+14 49 28.4	17.0	N	K 160
65P	2016 05 05.90010	11 20 59.84	+14 49 27.8	17.0	N	K 160
65P	2016 05 05.96506	11 20 59.29	+14 49 18.8	17.4	T	K 215
65P	2016 05 05.96635	11 20 59.28	+14 49 18.7	17.4	T	K 215
65P	2016 05 05.96763	11 20 59.28	+14 49 18.4	17.3	T	K 215
65P	2016 05 06.10351	11 20 58.40	+14 48 58.0	18.2	T	V83
65P	2016 05 06.11079	11 20 58.29	+14 48 58.3	16.7	T	V83
65P	2016 05 06.11875	11 20 58.21	+14 48 55.6	18.7	T	V83
65P	2016 05 06.12593	11 20 58.17	+14 48 56.4	16.5	T	V83
65P	2016 05 06.13230	11 20 58.14	+14 48 55.2	16.5	T	V83
65P	2016 05 06.14255	11 20 58.05	+14 48 53.4	16.7	T	V83
65P	2016 05 06.88856	11 20 52.81	+14 47 00.5	16.9	N	K 160
65P	2016 05 06.89092	11 20 52.78	+14 47 00.1	16.9	N	K 160
65P	2016 05 06.89328	11 20 52.76	+14 46 59.6	17.0	N	K 160
65P	2016 05 06.92088	11 20 52.66	+14 46 56.9	16.3	N	K C23
65P	2016 05 06.92388	11 20 52.56	+14 46 55.8	16.6	N	K C23
65P	2016 05 06.92687	11 20 52.54	+14 46 55.8	16.4	N	K C23
65P	2016 05 09.84616	11 20 37.90	+14 38 59.8	17.1	N	A71
65P	2016 05 09.84976	11 20 37.88	+14 38 59.2	17.0	N	A71
65P	2016 05 09.86054	11 20 37.83	+14 38 57.1	17.0	N	A71
65P	2016 05 12.48225	11 20 32.21	+14 31 02.1			K D88
65P	2016 05 12.50308	11 20 32.17	+14 30 58.4	16.3	T	K D88
65P	2016 05 12.54166	11 20 32.13	+14 30 50.7			900
65P	2016 05 12.54880	11 20 32.12	+14 30 49.4	16.3	T	900
65P	2016 05 13.49204	11 20 31.87	+14 27 50.1	16.9	N	Q68
65P	2016 05 13.49656	11 20 31.86	+14 27 49.5	16.9	N	Q68
65P	2016 05 13.51788	11 20 31.91	+14 27 45.5	16.8	N	Q68

67P/Churyumov-Gerasimenko

67P	2016 03 26.85986	11 29 14.51	+13 12 57.1	17.9	N	9 G40
67P	2016 03 26.86610	11 29 14.21	+13 12 57.6	17.9	N	9 G40
67P	2016 03 26.88093	11 29 13.37	+13 12 59.8	17.9	N	9 G40
67P	2016 03 26.89469	11 29 12.62	+13 13 01.5	17.9	N	9 G40
67P	2016 03 26.90853	11 29 11.84	+13 13 03.3	17.7	N	9 G40
67P	2016 04 05.04420	11 21 52.10	+13 23 42.5	17.2	N	K 585
67P	2016 04 05.04527	11 21 52.05	+13 23 42.8	17.2	N	K 585
67P	2016 04 05.04597	11 21 52.03	+13 23 42.7	17.2	N	K 585
67P	2016 04 05.04668	11 21 52.00	+13 23 43.0	17.3	N	K 585
67P	2016 04 05.04739	11 21 51.98	+13 23 42.8	17.3	N	K 585
67P	2016 04 05.04810	11 21 51.97	+13 23 42.6	17.2	N	K 585
67P	2016 04 05.04881	11 21 51.91	+13 23 42.6	17.1	N	K 585
67P	2016 04 05.04952	11 21 51.87	+13 23 42.9	17.1	N	K 585
67P	2016 04 05.05022	11 21 51.83	+13 23 42.7	17.0	N	K 585
67P	2016 04 05.05129	11 21 51.82	+13 23 41.8	17.0	N	K 585
67P	2016 04 05.05200	11 21 51.77	+13 23 42.6	17.0	N	K 585
67P	2016 04 05.91181	11 21 16.77	+13 23 57.1	18.7	N	K 160
67P	2016 04 05.91387	11 21 16.65	+13 23 57.6	18.5	N	K 160
67P	2016 04 05.91593	11 21 16.60	+13 23 57.0	18.6	N	K 160
67P	2016 04 06.94407	11 20 35.71	+13 24 01.5	18.4	N	K 160
67P	2016 04 06.94612	11 20 35.71	+13 24 02.4	18.4	N	K 160
67P	2016 04 12.91386	11 17 11.74	+13 20 58.5	19.0	N	K 160
67P	2016 04 12.91621	11 17 11.77	+13 20 57.7	17.4	N	K 160
67P	2016 04 12.91855	11 17 11.67	+13 20 56.9	17.7	N	K 160
67P	2016 04 25.96457	11 12 55.83	+12 55 10.2	18.7	N	K 160
67P	2016 04 25.96689	11 12 55.82	+12 55 10.4	18.4	N	K 160
67P	2016 04 26.87817	11 12 47.57	+12 52 31.5	18.1	N	C10
67P	2016 04 26.89670	11 12 47.58	+12 52 26.2	17.8	N	C10
67P	2016 04 26.90013	11 12 47.30	+12 52 28.1	19.1	N	K A77
67P	2016 04 26.91176	11 12 47.24	+12 52 25.9	19.1	N	K A77
67P	2016 04 27.83001	11 12 40.06	+12 49 38.3	18.3	T	K 104
67P	2016 04 27.84116	11 12 40.00	+12 49 35.2	18.1	T	K 104
67P	2016 04 28.36683	11 12 36.21	+12 47 59.0	18.4	T	T05
67P	2016 04 28.38480	11 12 36.08	+12 47 54.9	18.2	T	T05
67P	2016 04 28.40366	11 12 35.85	+12 47 52.2	18.0	T	T05
67P	2016 04 28.42228	11 12 35.87	+12 47 48.1	18.4	T	T05
67P	2016 04 28.88356	11 12 33.09	+12 46 19.8	19.3	N	K A77
67P	2016 04 28.89699	11 12 32.95	+12 46 16.9	19.2	N	K A77
67P	2016 04 29.01899	11 12 32.23	+12 45 54.5	19.0	N	9 G40
67P	2016 04 29.03285	11 12 32.11	+12 45 52.3	18.9	N	9 G40
67P	2016 04 29.99423	11 12 27.34	+12 42 41.2	17.9	N	K I81
67P	2016 04 29.99574	11 12 27.37	+12 42 39.7	17.8	N	K I81
67P	2016 04 29.99725	11 12 27.26	+12 42 38.6	17.6	N	K I81
67P	2016 04 30.91227	11 12 24.17	+12 39 34.5	18.7	N	K K02
67P	2016 04 30.92154	11 12 24.08	+12 39 34.1	18.6	N	K K02
67P	2016 05 01.92350	11 12 21.92	+12 36 03.7	18.1	N	J22
67P	2016 05 01.92792	11 12 21.83	+12 36 05.0	18.1	N	J22
67P	2016 05 04.41111	11 12 21.68	+12 26 56.6	18.8	N	K Q68
67P	2016 05 04.43221	11 12 21.68	+12 26 53.5	19.0	N	K Q68
67P	2016 05 04.86376	11 12 22.41	+12 25 08.6	19.5	N	K A77
67P	2016 05 04.87674	11 12 22.48	+12 25 06.3	19.5	N	K A77
67P	2016 05 04.89755	11 12 22.46	+12 24 59.5	18.3	N	K C23
67P	2016 05 04.90766	11 12 22.56	+12 24 58.7	18.9	N	K C23
67P	2016 05 05.45730	11 12 24.02	+12 22 54.7	19.0	N	K Q68
67P	2016 05 05.47858	11 12 24.08	+12 22 50.0	18.9	N	K Q68
67P	2016 05 13.48712	11 13 27.39	+11 48 20.2	18.3	N	K Q68
67P	2016 05 13.50864	11 13 27.34	+11 48 19.7	18.4	N	K Q68
67P	2016 05 13.90956	11 13 32.86	+11 46 20.2	19.3	N	9 G40
67P	2016 05 13.94838	11 13 33.29	+11 46 09.2	19.3	N	9 G40

77P/Longmore

77P	2016 03 28.05292	13 22 54.97	−10 08 24.1	14.0	T	585
77P	2016 03 28.05390	13 22 54.89	−10 08 24.6	14.6	N	585
77P	2016 03 28.05462	13 22 54.83	−10 08 24.9	14.6	N	585
77P	2016 03 28.05535	13 22 54.79	−10 08 24.9	14.7	N	585
77P	2016 03 28.05607	13 22 54.75	−10 08 25.4	14.5	N	585
77P	2016 03 28.05679	13 22 54.70	−10 08 25.8	14.7	N	585
77P	2016 04 05.05891	13 13 49.49	−11 12 42.8	14.1	N	585
77P	2016 04 05.06111	13 13 49.36	−11 12 43.9	14.2	N	585
77P	2016 04 05.06182	13 13 49.30	−11 12 44.3	14.3	N	585

77P	2016 04 05.06253	13 13 49.25	−11 12 44.7	14.3	N	585	77P	2016 04 28.47790	12 46 59.65	−14 00 36.1	15.1	T	T05
77P	2016 04 05.06323	13 13 49.20	−11 12 45.0	14.2	N	585	77P	2016 04 28.49608	12 46 58.56	−14 00 43.1	15.1	T	T05
77P	2016 04 05.06394	13 13 49.15	−11 12 45.1	14.3	N	585	77P	2016 04 28.89057	12 46 35.66	−14 03 21.1	15.2	N	K K25
77P	2016 04 05.06465	13 13 49.09	−11 12 45.4	14.2	N	585	77P	2016 04 28.90371	12 46 34.88	−14 03 26.7	15.3	N	K K25
77P	2016 04 05.06536	13 13 49.04	−11 12 46.0	14.2	N	585	77P	2016 04 28.91433	12 46 34.22	−14 03 30.6	15.3	N	K K25
77P	2016 04 05.06606	13 13 49.00	−11 12 46.2	14.3	N	585	77P	2016 04 28.91832	12 46 33.98	−14 03 32.7	15.2	N	K C43
77P	2016 04 05.53844	13 13 15.77	−11 16 26.7			D95	77P	2016 04 28.92159	12 46 33.79	−14 03 33.8	15.1	N	K C43
77P	2016 04 05.54209	13 13 15.50	−11 16 28.8			D95	77P	2016 04 28.92487	12 46 33.59	−14 03 35.2	15.1	N	K C43
77P	2016 04 05.54939	13 13 14.98	−11 16 32.2	14.0	T	D95	77P	2016 04 28.92814	12 46 33.39	−14 03 36.6	15.2	N	K C43
77P	2016 04 19.54983	12 56 34.21	−13 00 05.5	15.0	N	K Q21	77P	2016 04 29.44384	12 46 03.40	−14 06 56.4	15.5	T	T05
77P	2016 04 19.55562	12 56 33.79	−13 00 08.6	15.1	N	K Q21	77P	2016 04 29.45948	12 46 02.46	−14 07 02.5	15.6	T	T05
77P	2016 04 21.50742	12 54 20.93	−13 13 31.5	14.9	N	Q68	77P	2016 04 29.47451	12 46 01.58	−14 07 08.5	15.6	T	T05
77P	2016 04 21.55248	12 54 17.55	−13 13 53.9	14.8	N	Q68	77P	2016 04 29.48864	12 46 00.72	−14 07 13.7	15.6	T	T05
77P	2016 04 25.65176	12 49 51.58	−13 41 44.7	15.1	N	Q68	77P	2016 04 29.95388	12 45 34.17	−14 10 18.8	14.5	N	585
77P	2016 04 25.66514	12 49 50.73	−13 41 50.2	15.0	N	Q68	77P	2016 04 29.95459	12 45 34.14	−14 10 19.0	14.6	N	585
77P	2016 04 26.90431	12 48 34.42	−13 50 14.7	14.8	N	C10	77P	2016 04 29.95529	12 45 34.10	−14 10 19.2	14.6	N	585
77P	2016 04 26.92426	12 48 33.15	−13 50 22.5	14.8	N	C10	77P	2016 04 29.95600	12 45 34.06	−14 10 19.3	14.7	N	585
77P	2016 04 26.92859	12 48 32.85	−13 50 23.7	15.2	N	K K25	77P	2016 04 29.95671	12 45 34.09	−14 10 20.4	14.6	N	585
77P	2016 04 26.93269	12 48 32.57	−13 50 25.2	15.2	N	K K25	77P	2016 04 29.95742	12 45 33.98	−14 10 19.8	14.6	N	585
77P	2016 04 26.93679	12 48 32.33	−13 50 27.1	15.2	N	K K25	77P	2016 04 29.95813	12 45 33.93	−14 10 20.4	14.7	N	585
77P	2016 04 26.94476	12 48 31.81	−13 50 30.8	14.8	N	C10	77P	2016 04 29.95883	12 45 33.90	−14 10 20.4	14.6	N	585
77P	2016 04 27.33054	12 48 08.66	−13 52 55.9	16.4	T	467	77P	2016 04 29.95954	12 45 33.85	−14 10 20.7	14.6	N	585
77P	2016 04 27.33566	12 48 08.36	−13 52 57.8	16.5	T	467	77P	2016 04 29.96025	12 45 33.80	−14 10 21.3	14.6	N	585
77P	2016 04 27.33931	12 48 08.11	−13 52 59.3	16.5	T	467	77P	2016 04 29.96096	12 45 33.76	−14 10 21.4	14.6	N	585
77P	2016 04 27.34296	12 48 07.87	−13 53 01.0	16.5	T	467	77P	2016 04 30.59323	12 44 58.19	−14 14 27.9			900
77P	2016 04 27.45449	12 48 00.76	−13 53 51.0	15.1	T	T05	77P	2016 04 30.60037	12 44 57.78	−14 14 30.7	13.5	T	900
77P	2016 04 27.46927	12 47 59.86	−13 53 56.7	15.1	T	T05	77P	2016 04 30.91558	12 44 40.36	−14 16 32.8	14.8	N	I72
77P	2016 04 27.48409	12 47 58.93	−13 54 02.5	15.0	T	T05	77P	2016 04 30.94082	12 44 38.90	−14 16 44.1	15.4	N	K02
77P	2016 04 27.49750	12 47 58.10	−13 54 07.5	15.0	T	T05	77P	2016 04 30.94567	12 44 38.63	−14 16 46.3	15.2	N	K02
77P	2016 04 27.89921	12 47 34.24	−13 56 49.8	15.3	N	A71	77P	2016 04 30.95028	12 44 38.34	−14 16 48.0	15.9	N	K02
77P	2016 04 27.90247	12 47 34.03	−13 56 51.0	15.1	N	A71	77P	2016 04 30.95374	12 44 38.23	−14 16 49.1	14.8	N	I72
77P	2016 04 27.90572	12 47 33.84	−13 56 52.5	15.1	N	A71	77P	2016 04 30.97214	12 44 37.18	−14 16 55.9	14.8	N	I72
77P	2016 04 27.90896	12 47 33.64	−13 56 53.5	15.1	N	A71	77P	2016 04 30.98122	12 44 36.69	−14 16 58.2	14.9	N	J22
77P	2016 04 27.96958	12 47 29.84	−13 57 17.1	14.4	N	585	77P	2016 04 30.98472	12 44 36.52	−14 17 00.2	14.9	N	J22
77P	2016 04 27.97028	12 47 29.80	−13 57 17.5	14.5	N	585	77P	2016 04 30.98819	12 44 36.25	−14 17 01.2	14.9	N	J22
77P	2016 04 27.97099	12 47 29.75	−13 57 17.9	14.5	N	585	77P	2016 05 01.45170	12 44 10.67	−14 20 00.4	15.7	T	T05
77P	2016 04 27.97170	12 47 29.71	−13 57 18.0	14.5	N	585	77P	2016 05 01.46516	12 44 09.88	−14 20 05.6	15.7	T	T05
77P	2016 04 27.97241	12 47 29.67	−13 57 18.1	14.5	N	585	77P	2016 05 01.47814	12 44 09.16	−14 20 10.8	15.7	T	T05
77P	2016 04 27.97312	12 47 29.63	−13 57 18.4	14.5	N	585	77P	2016 05 01.49058	12 44 08.46	−14 20 15.4	15.7	T	T05
77P	2016 04 27.97382	12 47 29.58	−13 57 18.9	14.5	N	585	77P	2016 05 01.51107	12 44 07.58	−14 20 18.3	15.2	N	Q68
77P	2016 04 27.97453	12 47 29.54	−13 57 19.1	14.5	N	585	77P	2016 05 01.54275	12 44 05.88	−14 20 30.7	15.2	N	Q68
77P	2016 04 27.97524	12 47 29.50	−13 57 19.3	14.5	N	585	77P	2016 05 01.69812	12 43 57.09	−14 21 29.9	15.2	N	Q68
77P	2016 04 27.97595	12 47 29.47	−13 57 19.9	14.5	N	585	77P	2016 05 02.55727	12 43 11.33	−14 27 10.5			K D81
77P	2016 04 27.97665	12 47 29.40	−13 57 20.1	14.5	N	585	77P	2016 05 02.56907	12 43 10.75	−14 27 13.9			K D81
77P	2016 04 27.97736	12 47 29.38	−13 57 20.2	14.5	N	585	77P	2016 05 02.57401	12 43 10.36	−14 27 17.1			K D81
77P	2016 04 27.97807	12 47 29.32	−13 57 20.4	14.5	N	585	77P	2016 05 02.58087	12 43 10.01	−14 27 19.2	14.3	T	K D81
77P	2016 04 27.97878	12 47 29.29	−13 57 21.0	14.5	N	585	77P	2016 05 02.61134	12 43 08.31	−14 27 24.4	15.2	N	Q68
77P	2016 04 27.97949	12 47 29.24	−13 57 21.1	14.5	N	585	77P	2016 05 02.64608	12 43 06.48	−14 27 37.3	15.1	N	Q68
77P	2016 04 27.98019	12 47 29.19	−13 57 21.6	14.4	N	585	77P	2016 05 02.94150	12 42 51.14	−14 29 39.2	14.8	N	I72
77P	2016 04 27.98090	12 47 29.16	−13 57 21.9	14.6	N	585	77P	2016 05 02.95674	12 42 50.37	−14 29 44.9	14.9	N	I72
77P	2016 04 27.98161	12 47 29.10	−13 57 22.0	14.5	N	585	77P	2016 05 03.29669	12 42 32.81	−14 31 54.3	14.7	T	691
77P	2016 04 28.44130	12 47 01.89	−14 00 21.7	15.1	T	T05	77P	2016 05 03.31169	12 42 32.03	−14 32 00.5	14.7	T	691
77P	2016 04 28.45959	12 47 00.78	−14 00 29.1	15.1	T	T05	77P	2016 05 03.32666	12 42 31.13	−14 32 06.3	14.8	T	691

77P	2016 05 03.38900	12 42 27.98	−14 32 29.7	15.7	T	T05
77P	2016 05 03.40091	12 42 27.33	−14 32 34.3	15.7	T	T05
77P	2016 05 03.41273	12 42 26.69	−14 32 38.9	15.8	T	T05
77P	2016 05 03.42439	12 42 26.06	−14 32 43.4	15.7	T	T05
77P	2016 05 03.90910	12 42 01.50	−14 35 51.7	15.6	N	J01
77P	2016 05 03.91196	12 42 01.34	−14 35 52.9	15.6	N	J01
77P	2016 05 03.91765	12 42 01.05	−14 35 55.1	15.0	N	J01
77P	2016 05 03.93148	12 42 00.29	−14 36 00.3	14.9	N	I72
77P	2016 05 03.94672	12 41 59.49	−14 36 06.1	15.0	N	I72
77P	2016 05 03.96177	12 41 58.70	−14 36 11.8	14.9	N	I72
77P	2016 05 04.02021	12 41 55.67	−14 36 34.9	15.2	N	C23
77P	2016 05 04.02171	12 41 55.55	−14 36 35.1	15.3	N	C23
77P	2016 05 04.02396	12 41 55.43	−14 36 36.5	15.6	N	C23
77P	2016 05 04.56708	12 41 28.31	−14 39 57.2	15.1	N	32Q62
77P	2016 05 04.59238	12 41 26.99	−14 40 06.9	15.2	N	32Q62
77P	2016 05 04.91894	12 41 11.07	−14 42 19.1	15.8	N	B83
77P	2016 05 04.93357	12 41 10.33	−14 42 24.7	15.9	N	B83
77P	2016 05 04.94817	12 41 09.62	−14 42 30.5	14.9	N	B83
77P	2016 05 05.49749	12 40 43.16	−14 45 52.9	15.2	N	Q68
77P	2016 05 05.51825	12 40 42.10	−14 46 07.5	15.5	N	K Q21
77P	2016 05 05.52350	12 40 41.85	−14 46 09.8	15.3	N	K Q21
77P	2016 05 05.52905	12 40 41.59	−14 46 04.7	15.1	N	Q68
77P	2016 05 06.32234	12 40 04.28	−14 51 13.1	15.7	T	T05
77P	2016 05 06.33562	12 40 03.63	−14 51 18.2	15.8	T	T05
77P	2016 05 06.33707	12 40 03.54	−14 51 18.7	15.7	T	T05
77P	2016 05 06.34835	12 40 03.00	−14 51 22.9	15.8	T	T05
77P	2016 05 06.35038	12 40 02.88	−14 51 23.8	15.8	T	T05
77P	2016 05 06.36318	12 40 02.26	−14 51 28.7	15.7	T	T05
77P	2016 05 06.37447	12 40 01.73	−14 51 32.9	15.8	T	T05
77P	2016 05 06.37596	12 40 01.63	−14 51 33.6	15.7	T	T05
77P	2016 05 06.90954	12 39 37.08	−14 54 58.9	15.3	N	A71
77P	2016 05 06.91468	12 39 36.83	−14 55 00.7	15.5	N	A71
77P	2016 05 06.91725	12 39 36.71	−14 55 01.8	15.4	N	A71
77P	2016 05 07.95326	12 38 50.62	−15 01 36.1	15.0	N	C10
77P	2016 05 07.96802	12 38 49.91	−15 01 41.3	15.1	N	C10
77P	2016 05 07.98399	12 38 49.20	−15 01 47.3	15.0	N	C10
77P	2016 05 08.24685	12 38 37.80	−15 03 25.8	15.9	N	H47
77P	2016 05 08.25198	12 38 37.58	−15 03 27.8	15.3	N	H47
77P	2016 05 08.26286	12 38 37.08	−15 03 31.9	15.9	N	H47
77P	2016 05 08.27418	12 38 36.56	−15 03 35.9	16.0	N	H47
77P	2016 05 11.26650	12 36 36.67	−15 22 29.1	14.2	T	703
77P	2016 05 11.27250	12 36 36.47	−15 22 31.3	14.2	T	703
77P	2016 05 11.27851	12 36 36.24	−15 22 33.1	14.2	T	703
77P	2016 05 11.28452	12 36 36.03	−15 22 35.4	14.2	T	703
77P	2016 05 11.90475	12 36 13.13	−15 26 32.3	15.8	N	K 958
77P	2016 05 11.91275	12 36 12.84	−15 26 35.2	15.9	N	K 958
77P	2016 05 11.92209	12 36 12.41	−15 26 38.9	15.8	N	K 958
77P	2016 05 11.94734	12 36 11.56	−15 26 46.6	15.0	N	J22
77P	2016 05 11.94909	12 36 11.47	−15 26 47.6	15.0	N	J22
77P	2016 05 11.95432	12 36 11.25	−15 26 49.6	15.0	N	J22
77P	2016 05 12.52211	12 35 51.18	−15 30 25.1			K 367
77P	2016 05 12.52373	12 35 51.13	−15 30 25.9			K 367
77P	2016 05 12.52494	12 35 51.08	−15 30 26.3	13.8	T	K 367
77P	2016 05 12.53066	12 35 50.84	−15 30 28.1			K D88
77P	2016 05 12.54022	12 35 50.51	−15 30 31.8	14.5	T	K D88
77P	2016 05 12.67604	12 35 45.49	−15 31 21.3			372
77P	2016 05 12.67934	12 35 45.37	−15 31 22.1			372
77P	2016 05 12.68490	12 35 45.17	−15 31 24.1	14.8	T	372
77P	2016 05 13.19319	12 35 28.32	−15 34 38.2	14.2	T	G45
77P	2016 05 13.19737	12 35 28.28	−15 34 39.8	13.9	T	G45
77P	2016 05 13.20188	12 35 27.99	−15 34 41.5	14.2	T	G45
77P	2016 05 13.21205	12 35 27.63	−15 34 45.1	14.2	T	G45
77P	2016 05 13.52724	12 35 16.98	−15 36 38.7	15.4	N	Q68
77P	2016 05 13.55981	12 35 15.84	−15 36 50.8	15.3	N	Q68
77P	2016 05 15.55687	12 34 13.97	−15 49 27.4	15.4	N	Q68
77P	2016 05 15.60388	12 34 12.54	−15 49 45.1	15.4	N	Q68
77P	2016 05 18.31023	12 33 01.65	−16 06 59.5	15.6	T	T05
77P	2016 05 18.32094	12 33 01.35	−16 07 03.6	15.5	T	T05
77P	2016 05 18.33436	12 33 01.03	−16 07 08.3	15.5	T	T05
77P	2016 05 18.34582	12 33 00.72	−16 07 13.2	15.6	T	T05

81P/Wild

81P	2016 01 25.87293	05 03 46.23	+19 36 12.9	15.4	N	K B50
81P	2016 01 25.88066	05 03 46.08	+19 36 13.5	15.1	N	K B50
81P	2016 01 25.89183	05 03 45.76	+19 36 14.7	15.4	N	K B50
81P	2016 01 25.89653	05 03 45.67	+19 36 15.0	14.5	N	K B50
81P	2016 03 16.80352	05 29 35.33	+21 49 17.3	13.3	T	585
81P	2016 03 16.80580	05 29 35.57	+21 49 17.8	14.2	N	585
81P	2016 03 16.80651	05 29 35.63	+21 49 17.7	14.2	N	585
81P	2016 03 16.80934	05 29 35.77	+21 49 17.7	14.3	N	585
81P	2016 03 16.81005	05 29 35.86	+21 49 17.5	14.1	N	585
81P	2016 03 16.81217	05 29 36.07	+21 49 18.2	14.2	N	585
81P	2016 03 16.81713	05 29 36.45	+21 49 19.9	14.2	N	585
81P	2016 03 16.81784	05 29 36.53	+21 49 20.1	14.2	N	585
81P	2016 03 16.81854	05 29 36.58	+21 49 20.0	14.3	N	585
81P	2016 03 16.82458	05 29 37.07	+21 49 21.0	14.4	N	585
81P	2016 03 16.82528	05 29 37.10	+21 49 21.0	14.3	N	585
81P	2016 03 16.82600	05 29 37.17	+21 49 21.1	14.2	N	585
81P	2016 03 26.84123	05 44 24.07	+22 15 38.4	13.2	T	585
81P	2016 03 26.84193	05 44 24.07	+22 15 38.1	13.9	N	585
81P	2016 03 26.84264	05 44 24.21	+22 15 38.3	13.9	N	585
81P	2016 03 26.84335	05 44 24.27	+22 15 38.4	13.8	N	585
81P	2016 03 26.84406	05 44 24.35	+22 15 38.6	13.9	N	585
81P	2016 03 26.84476	05 44 24.42	+22 15 38.9	13.8	N	585
81P	2016 03 26.84547	05 44 24.48	+22 15 38.6	13.9	N	585
81P	2016 03 26.84618	05 44 24.55	+22 15 39.1	13.8	N	585
81P	2016 03 26.84689	05 44 24.62	+22 15 38.7	13.9	N	585
81P	2016 03 26.84760	05 44 24.69	+22 15 38.7	13.9	N	585
81P	2016 03 26.84831	05 44 24.76	+22 15 38.9	13.9	N	585
81P	2016 03 26.84901	05 44 24.82	+22 15 38.9	13.9	N	585
81P	2016 03 26.85043	05 44 24.95	+22 15 39.2	13.9	N	585
81P	2016 03 26.85114	05 44 25.02	+22 15 39.4	13.8	N	585
81P	2016 03 26.85185	05 44 25.09	+22 15 39.3	13.9	N	585
81P	2016 03 26.85255	05 44 25.20	+22 15 39.7	13.9	N	585
81P	2016 03 26.85326	05 44 25.22	+22 15 39.8	13.9	N	585
81P	2016 03 26.85397	05 44 25.29	+22 15 39.9	13.9	N	585

81P	2016 03 27.92801	05 46 09.57	+22 18 09.3	14.0	N	B50
81P	2016 03 27.93000	05 46 09.79	+22 18 10.4	14.8	N	K B50
81P	2016 03 27.95167	05 46 11.93	+22 18 13.4	14.7	N	K B50
81P	2016 04 04.86575	05 59 52.84	+22 34 02.0	13.9	N	585
81P	2016 04 04.86646	05 59 52.91	+22 34 02.3	13.8	N	585
81P	2016 04 04.86716	05 59 52.99	+22 34 02.3	13.9	N	585
81P	2016 04 04.86787	05 59 53.07	+22 34 02.5	13.9	N	585
81P	2016 04 04.86858	05 59 53.15	+22 34 02.4	13.8	N	585
81P	2016 04 04.86929	05 59 53.23	+22 34 02.3	13.9	N	585
81P	2016 04 04.86999	05 59 53.30	+22 34 02.7	13.9	N	585
81P	2016 04 04.87070	05 59 53.38	+22 34 02.7	13.9	N	585
81P	2016 04 04.87141	05 59 53.46	+22 34 02.6	13.9	N	585
81P	2016 04 04.87212	05 59 53.54	+22 34 02.7	13.9	N	585
81P	2016 04 04.87283	05 59 53.62	+22 34 02.9	13.9	N	585
81P	2016 04 04.87353	05 59 53.69	+22 34 03.0	13.9	N	585
81P	2016 04 04.87424	05 59 53.76	+22 34 02.9	13.9	N	585
81P	2016 04 04.87495	05 59 53.85	+22 34 03.1	13.9	N	585
81P	2016 04 04.87566	05 59 53.92	+22 34 03.1	13.9	N	585
81P	2016 04 04.87636	05 59 54.00	+22 34 03.3	13.9	N	585
81P	2016 04 04.87707	05 59 54.08	+22 34 03.3	13.9	N	585
81P	2016 04 04.87778	05 59 54.16	+22 34 03.3	13.9	N	585
81P	2016 04 04.87849	05 59 54.23	+22 34 03.4	13.9	N	585
81P	2016 04 05.82064	06 01 37.85	+22 35 36.5	14.8	N	K 160
81P	2016 04 05.82344	06 01 38.16	+22 35 36.8	14.9	N	K 160
81P	2016 04 05.82624	06 01 38.44	+22 35 37.3	14.9	N	K 160
81P	2016 04 06.78332	06 03 24.97	+22 37 06.4	14.8	N	K 160
81P	2016 04 06.78606	06 03 25.27	+22 37 06.7	14.9	N	K 160
81P	2016 04 06.78881	06 03 25.59	+22 37 07.0	14.8	N	K 160
81P	2016 04 12.81230	06 15 03.34	+22 44 23.9	15.8	N	K 160
81P	2016 04 12.81497	06 15 03.67	+22 44 24.0	15.9	N	K 160
81P	2016 04 12.81764	06 15 03.98	+22 44 24.0	15.7	N	K 160
81P	2016 04 14.78102	06 19 01.35	+22 45 56.7	15.6	N	K 160
81P	2016 04 14.78307	06 19 01.59	+22 45 56.8	15.6	N	K 160
81P	2016 04 14.78512	06 19 01.83	+22 45 56.7	15.6	N	K 160
81P	2016 04 18.81002	06 27 22.58	+22 47 42.2	15.4	N	K 160
81P	2016 04 18.81166	06 27 22.79	+22 47 42.3	15.5	N	K 160
81P	2016 04 18.81330	06 27 23.00	+22 47 42.5	15.3	N	K 160
81P	2016 04 20.84565	06 31 42.90	+22 47 49.9	14.5	N	C23
81P	2016 04 20.85015	06 31 43.46	+22 47 49.8	14.5	N	C23
81P	2016 04 20.85689	06 31 44.34	+22 47 49.9	14.4	N	C23
81P	2016 04 20.87600	06 31 46.77	+22 47 50.5	13.6	N	K B50
81P	2016 04 20.87999	06 31 47.24	+22 47 50.4	14.5	N	K B50
81P	2016 04 20.89541	06 31 49.23	+22 47 48.2	15.6	N	K B50
81P	2016 04 20.89940	06 31 49.75	+22 47 48.3	15.0	N	K B50
81P	2016 04 22.24019	06 34 43.81	+22 47 39.3	13.7	T	T05
81P	2016 04 22.25324	06 34 45.50	+22 47 39.0	13.7	T	T05
81P	2016 04 22.27138	06 34 47.84	+22 47 38.6	13.7	T	T05
81P	2016 04 22.29164	06 34 50.47	+22 47 38.0	13.7	T	T05
81P	2016 04 24.09477	06 38 47.70	+22 46 55.5	14.3	N	H45
81P	2016 04 24.09601	06 38 47.86	+22 46 55.4	14.4	N	H45
81P	2016 04 24.09755	06 38 48.07	+22 46 55.3	14.5	N	H45
81P	2016 04 25.79751	06 42 34.80	+22 45 50.7	14.4	N	K 160
81P	2016 04 25.80025	06 42 35.17	+22 45 50.6	14.5	N	K 160
81P	2016 04 25.80300	06 42 35.52	+22 45 50.8	14.5	N	K 160
81P	2016 04 25.84193	06 42 40.76	+22 45 48.7	14.2	N	A71
81P	2016 04 25.84413	06 42 41.05	+22 45 48.7	14.3	N	A71
81P	2016 04 25.84634	06 42 41.34	+22 45 48.6	14.3	N	A71
81P	2016 04 28.84691	06 49 28.91	+22 42 54.3	14.9	N	C23
81P	2016 04 28.85515	06 49 30.00	+22 42 53.8	13.9	N	C23
81P	2016 04 28.86489	06 49 31.33	+22 42 52.8	14.6	N	C23
81P	2016 04 28.87081	06 49 32.06	+22 42 53.0	14.4	N	B50
81P	2016 04 28.87240	06 49 32.29	+22 42 52.7	13.9	N	B50
81P	2016 04 28.88757	06 49 34.34	+22 42 51.2	14.7	N	B50
81P	2016 04 28.88837	06 49 34.43	+22 42 51.1	14.0	N	B50
81P	2016 04 30.48595	06 53 15.17	+22 40 46.1			900
81P	2016 04 30.49308	06 53 16.17	+22 40 45.4	12.0	T	900
81P	2016 04 30.86451	06 54 07.89	+22 40 11.7	14.3	N	C23
81P	2016 04 30.86751	06 54 08.28	+22 40 11.7	14.0	N	C23
81P	2016 04 30.87050	06 54 08.73	+22 40 11.2	14.1	N	C23
81P	2016 04 30.87906	06 54 09.88	+22 40 09.6	13.8	N	I72
81P	2016 04 30.91720	06 54 15.16	+22 40 06.7	13.7	N	I72
81P	2016 04 30.95545	06 54 20.38	+22 40 03.5	13.7	N	I72
81P	2016 05 01.23673	06 54 59.77	+22 39 40.6	14.4	T	T05
81P	2016 05 01.24334	06 55 00.67	+22 39 40.1	14.4	T	T05
81P	2016 05 01.25345	06 55 02.08	+22 39 39.1	14.5	T	T05
81P	2016 05 01.26641	06 55 03.89	+22 39 37.7	14.5	T	T05
81P	2016 05 01.84751	06 56 25.21	+22 38 38.9	14.3	N	C23
81P	2016 05 01.85426	06 56 26.19	+22 38 38.3	14.1	N	C23
81P	2016 05 01.86175	06 56 27.22	+22 38 37.6	14.3	N	C23
81P	2016 05 01.87684	06 56 29.32	+22 38 36.4	13.8	N	B54
81P	2016 05 01.87744	06 56 29.38	+22 38 36.0	13.8	N	B54
81P	2016 05 01.87760	06 56 29.40	+22 38 35.9	13.7	N	B54
81P	2016 05 02.49405	06 57 56.01	+22 37 35.1			K D81
81P	2016 05 02.50002	06 57 56.84	+22 37 34.0			K D81
81P	2016 05 02.50593	06 57 57.66	+22 37 33.2	12.8	T	K D81
81P	2016 05 02.88161	06 58 50.66	+22 36 52.0	13.9	N	I72
81P	2016 05 02.91416	06 58 55.24	+22 36 48.4	13.7	N	I72
81P	2016 05 02.94244	06 58 59.39	+22 36 44.2	14.4	N	I81
81P	2016 05 02.94638	06 58 59.79	+22 36 44.9	13.8	N	I72
81P	2016 05 02.94955	06 59 00.47	+22 36 43.3	14.5	N	I81
81P	2016 05 02.95524	06 59 01.16	+22 36 43.2	14.5	N	I81
81P	2016 05 03.88862	07 01 13.27	+22 34 58.0	13.8	N	I72
81P	2016 05 03.92103	07 01 17.85	+22 34 53.9	13.8	N	I72
81P	2016 05 03.95157	07 01 22.21	+22 34 49.7	13.8	N	I72
81P	2016 05 04.84558	07 03 29.73	+22 33 00.4	15.1	N	K A77
81P	2016 05 04.85047	07 03 30.35	+22 33 00.3	14.8	N	K A77
81P	2016 05 04.85531	07 03 31.07	+22 32 59.9	15.1	N	K A77
81P	2016 05 04.85594	07 03 31.18	+22 32 59.3	14.7	N	C23
81P	2016 05 04.86080	07 03 31.86	+22 32 58.4	15.0	N	K A77
81P	2016 05 04.86118	07 03 31.91	+22 32 58.0	14.8	N	C23
81P	2016 05 04.86511	07 03 32.49	+22 32 58.2	12.2	T	K A77
81P	2016 05 04.86643	07 03 32.70	+22 32 57.7	14.2	N	C23
81P	2016 05 05.24336	07 04 26.61	+22 32 11.7	14.4	T	T05
81P	2016 05 05.25173	07 04 27.80	+22 32 10.7	14.4	T	T05
81P	2016 05 05.26225	07 04 29.30	+22 32 09.2	14.4	T	T05
81P	2016 05 05.27503	07 04 31.12	+22 32 07.4	14.4	T	T05

81P	2016 05 06.86188	07 08 19.75	+22 28 23.9	14.0	N	C23
81P	2016 05 06.86712	07 08 20.52	+22 28 22.7	14.7	N	C23
81P	2016 05 06.87237	07 08 21.24	+22 28 22.0	14.3	N	C23
81P	2016 05 08.84864	07 13 08.97	+22 23 12.1	13.8	N	C23
81P	2016 05 08.85313	07 13 09.62	+22 23 11.0	14.8	N	C23
81P	2016 05 08.85988	07 13 10.66	+22 23 08.8	14.8	N	C23
81P	2016 05 12.49145	07 22 07.52	+22 11 55.4			K 367
81P	2016 05 12.49266	07 22 07.71	+22 11 55.1			K 367
81P	2016 05 12.49428	07 22 07.94	+22 11 54.7	11.7	T	K 367
81P	2016 05 15.87551	07 30 36.97	+21 59 22.3	13.8	N	9 G40
81P	2016 05 15.87725	07 30 37.23	+21 59 21.9	13.7	N	9 G40
81P	2016 05 15.87903	07 30 37.50	+21 59 21.5	13.7	N	9 G40
81P	2016 05 16.84700	07 33 04.73	+21 55 23.1	13.3	N	K14
81P	2016 05 16.86135	07 33 06.96	+21 55 21.1	13.3	N	K14
81P	2016 05 16.87356	07 33 08.77	+21 55 16.8	13.3	N	K14

88P/Howell

88P	2015 03 27.80437	21 26 25.20	−17 40 54.7	10.3	T	349
88P	2015 03 27.80685	21 26 25.68	−17 40 51.9			349

89P/Russell

89P	2016 04 26.97389	14 45 15.92	−15 54 32.4	20.8	N	K C10
89P	2016 04 26.99135	14 45 15.11	−15 54 33.5	20.1	N	K C10
89P	2016 04 27.00881	14 45 14.24	−15 54 33.9	20.3	N	K C10
89P	2016 04 27.34540	14 44 56.43	−15 54 49.0	20.5	T	G96
89P	2016 04 27.35152	14 44 56.09	−15 54 48.9	20.2	T	G96
89P	2016 04 27.35766	14 44 55.75	−15 54 49.3	20.6	T	G96
89P	2016 04 27.36380	14 44 55.46	−15 54 49.6	20.8	T	G96
89P	2016 04 28.97897	14 43 30.04	−15 56 08.4	20.5	N	K C10
89P	2016 04 28.99307	14 43 29.32	−15 56 07.8	20.6	N	K C10
89P	2016 05 08.24695	14 35 03.07	−16 02 43.0	20.0	T	G96
89P	2016 05 08.25148	14 35 02.82	−16 02 43.3	19.7	T	G96
89P	2016 05 08.25601	14 35 02.54	−16 02 43.6	19.9	T	G96
89P	2016 05 08.26056	14 35 02.29	−16 02 43.7	19.9	T	G96
89P	2016 05 10.26585	14 33 11.76	−16 04 04.3	19.9	T	G45
89P	2016 05 10.26999	14 33 11.53	−16 04 03.9	19.7	T	G45
89P	2016 05 10.27087	14 33 11.49	−16 04 03.8	20.0	T	G45
89P	2016 05 10.27568	14 33 11.23	−16 04 04.4	20.1	T	G45
89P	2016 05 10.28111	14 33 10.92	−16 04 05.4	20.4	T	G45
89P	2016 05 10.28437	14 33 10.73	−16 04 04.9	20.4	T	G45
89P	2016 05 10.28572	14 33 10.64	−16 04 04.5	20.4	T	G45
89P	2016 05 13.06910	14 30 38.93	−16 05 57.6	20.5	N	9 G40
89P	2016 05 13.08205	14 30 38.19	−16 05 58.2			9 G40

100P/Hartley

100P	2016 04 21.56354	15 46 42.97	−28 02 41.9	17.1	N	Q68
100P	2016 04 21.60178	15 46 40.83	−28 03 27.7	17.2	N	Q68
100P	2016 04 21.73371	15 46 33.44	−28 06 02.4	17.0	N	Q68
100P	2016 04 27.54310	15 40 43.77	−29 58 39.9	17.0	T	T05
100P	2016 04 27.55317	15 40 43.24	−29 58 51.5	17.0	T	T05
100P	2016 04 27.56113	15 40 42.54	−29 58 59.1	17.1	T	T05
100P	2016 04 27.56658	15 40 42.34	−29 59 05.3	17.0	T	T05
100P	2016 04 27.57053	15 40 41.95	−29 59 11.5	17.0	T	T05
100P	2016 04 29.98517	15 37 55.42	−30 44 48.4	16.4	N	K 585
100P	2016 04 29.98590	15 37 55.37	−30 44 49.4	16.5	N	K 585
100P	2016 04 29.98627	15 37 55.34	−30 44 50.1	16.4	N	K 585
100P	2016 04 29.98700	15 37 55.26	−30 44 51.3	16.5	N	K 585
100P	2016 04 29.98771	15 37 55.27	−30 44 52.4	16.4	N	K 585
100P	2016 04 29.98842	15 37 55.15	−30 44 53.1	16.5	N	K 585
100P	2016 04 29.98984	15 37 55.13	−30 44 55.2	16.5	N	K 585
100P	2016 04 29.99090	15 37 55.08	−30 44 56.1	16.6	N	K 585
100P	2016 04 29.99161	15 37 54.99	−30 44 56.6	16.6	N	K 585
100P	2016 04 29.99231	15 37 54.86	−30 44 56.7	16.6	N	K 585
100P	2016 04 29.99302	15 37 54.84	−30 44 58.5	16.7	N	K 585
100P	2016 04 29.99515	15 37 54.69	−30 45 00.9	16.7	N	K 585
100P	2016 05 01.72204	15 35 48.36	−31 16 52.7	17.4	N	Q68
100P	2016 05 01.75102	15 35 46.08	−31 17 23.9	16.9	N	Q68
100P	2016 05 04.76032	15 31 53.94	−32 11 42.9	17.0	N	Q68
100P	2016 05 04.76490	15 31 53.56	−32 11 47.7	18.2	N	Q68
100P	2016 05 10.09424	15 24 33.62	−33 42 30.7	17.6	T	Y00
100P	2016 05 10.10341	15 24 32.77	−33 42 38.7	17.8	T	Y00
100P	2016 05 10.11263	15 24 31.95	−33 42 48.0	17.8	T	Y00
100P	2016 05 12.39837	15 21 15.51	−34 19 15.0	17.4	T	T05
100P	2016 05 12.40176	15 21 15.28	−34 19 17.7	17.3	T	T05
100P	2016 05 12.41310	15 21 14.13	−34 19 28.6	17.4	T	T05
100P	2016 05 12.42569	15 21 12.98	−34 19 39.9	17.3	T	T05
100P	2016 05 12.43313	15 21 12.38	−34 19 46.9	17.4	T	T05
100P	2016 05 12.43682	15 21 12.00	−34 19 50.3	17.3	T	T05
100P	2016 05 12.43731	15 21 12.02	−34 19 51.7	17.4	T	T05
100P	2016 05 12.45005	15 21 10.79	−34 20 03.4	17.5	T	T05
100P	2016 05 12.63967	15 20 54.14	−34 23 02.0			K D81
100P	2016 05 12.65170	15 20 53.07	−34 23 11.5	15.1	T	K D81
100P	2016 05 12.66755	15 20 51.85	−34 23 26.6			900
100P	2016 05 12.67469	15 20 51.22	−34 23 32.2	16.5	T	900
100P	2016 05 13.43348	15 19 45.89	−34 35 03.3	15.9	N	32Q62
100P	2016 05 13.45800	15 19 43.69	−34 35 25.6	15.9	N	32Q62
100P	2016 05 13.61960	15 19 29.14	−34 37 53.3	17.0	N	Q68
100P	2016 05 13.62262	15 19 28.87	−34 37 55.8	17.1	N	Q68
100P	2016 05 15.61310	15 16 35.34	−35 07 25.4	17.1	N	Q68
100P	2016 05 15.64494	15 16 32.50	−35 07 53.1	17.0	N	Q68

104P/Kowal

104P	2016 03 25.09588	02 40 35.60	+13 29 44.1			32H06
104P	2016 03 25.09777	02 40 36.06	+13 29 45.7			32H06
104P	2016 03 25.09964	02 40 36.46	+13 29 46.6			32H06
104P	2016 03 25.10150	02 40 36.89	+13 29 48.0	13.2	T	32H06
104P	2016 04 21.10679	04 30 01.19	+17 07 25.8	16.5	N	V H06
104P	2016 04 21.11407	04 30 02.92	+17 07 28.6	16.3	N	V H06
104P	2016 04 22.85668	04 37 12.53	+17 14 10.9	15.9	N	9 G40
104P	2016 04 22.86278	04 37 14.04	+17 14 12.6	15.7	N	9 G40
104P	2016 04 22.86963	04 37 15.74	+17 14 13.6	15.8	N	9 G40
104P	2016 04 27.81049	04 57 29.86	+17 27 53.2	15.7	N	K A71
104P	2016 04 27.82336	04 57 33.03	+17 27 54.9	16.6	N	K A71
104P	2016 05 15.86843	06 09 27.83	+17 12 28.1	16.5	N	9 G40
104P	2016 05 15.87102	06 09 28.41	+17 12 27.4	16.4	N	9 G40
104P	2016 05 16.86885	06 13 18.73	+17 08 47.0	16.4	N	9 G40
104P	2016 05 16.87101	06 13 19.19	+17 08 46.8	16.5	N	9 G40

116P/Wild

116P	2015 03 28.52727	06 00 40.83	+27 06 37.5	17.1	T	349
116P	2015 03 28.53489	06 00 41.23	+27 06 36.7			349
116P	2016 04 20.06659	15 57 03.42	−23 17 15.6	15.2	N	C23
116P	2016 04 20.06809	15 57 03.29	−23 17 14.8	15.3	N	C23
116P	2016 04 20.06959	15 57 03.32	−23 17 15.0	15.3	N	C23
116P	2016 04 21.44906	15 56 25.65	−23 18 52.4	14.5	T	T05
116P	2016 04 21.46493	15 56 25.17	−23 18 53.7	14.5	T	T05
116P	2016 04 21.47243	15 56 24.92	−23 18 54.0	14.6	T	T05
116P	2016 04 21.48704	15 56 24.48	−23 18 55.2	14.6	T	T05
116P	2016 04 21.60367	15 56 21.27	−23 18 56.6	15.0	N	Q68
116P	2016 04 21.74566	15 56 16.80	−23 19 07.2	14.9	N	Q68
116P	2016 04 21.77183	15 56 16.01	−23 19 07.6	14.9	N	Q68
116P	2016 04 27.04224	15 53 22.73	−23 23 42.9	14.7	N	C10
116P	2016 04 27.06489	15 53 21.81	−23 23 44.2	14.8	N	C10
116P	2016 04 28.04826	15 52 45.04	−23 24 15.8	14.3	N	585
116P	2016 04 28.04898	15 52 44.99	−23 24 15.8	14.2	N	585
116P	2016 04 28.04970	15 52 44.95	−23 24 15.8	14.3	N	585
116P	2016 04 28.05043	15 52 44.95	−23 24 16.3	14.2	N	585
116P	2016 04 28.05188	15 52 44.88	−23 24 16.0	14.2	N	585
116P	2016 04 28.05260	15 52 44.86	−23 24 15.9	14.2	N	585
116P	2016 04 28.05332	15 52 44.83	−23 24 16.0	14.2	N	585
116P	2016 04 28.05404	15 52 44.79	−23 24 16.1	14.2	N	585
116P	2016 04 28.05493	15 52 44.75	−23 24 16.1	14.3	N	585
116P	2016 04 28.05579	15 52 44.72	−23 24 16.3	14.1	N	585
116P	2016 04 28.05654	15 52 44.71	−23 24 16.1	14.4	N	585
116P	2016 04 28.05729	15 52 44.67	−23 24 16.2	14.3	N	585
116P	2016 04 28.05805	15 52 44.65	−23 24 15.8	14.2	N	585
116P	2016 04 28.05880	15 52 44.62	−23 24 16.2	14.1	N	585
116P	2016 04 28.05955	15 52 44.58	−23 24 16.4	14.2	N	585
116P	2016 04 30.00601	15 51 28.55	−23 25 03.2	15.2	N	A71
116P	2016 04 30.01066	15 51 28.28	−23 25 02.8	14.3	N	585
116P	2016 04 30.01137	15 51 28.25	−23 25 03.2	14.3	N	585
116P	2016 04 30.01208	15 51 28.22	−23 25 03.3	14.2	N	585
116P	2016 04 30.01279	15 51 28.19	−23 25 03.2	14.2	N	585
116P	2016 04 30.01349	15 51 28.17	−23 25 03.2	14.3	N	585
116P	2016 04 30.01420	15 51 28.13	−23 25 03.4	14.3	N	585
116P	2016 04 30.01471	15 51 28.17	−23 25 03.5	15.0	N	A71
116P	2016 04 30.01491	15 51 28.11	−23 25 04.0	14.3	N	585
116P	2016 04 30.01562	15 51 28.09	−23 25 03.2	14.0	N	585
116P	2016 04 30.01633	15 51 27.99	−23 25 03.1	14.3	N	585
116P	2016 04 30.01704	15 51 28.01	−23 25 03.4	14.3	N	585
116P	2016 04 30.01775	15 51 27.97	−23 25 03.3	14.2	N	585
116P	2016 04 30.10596	15 51 24.75	−23 24 57.4	14.5	N	K I39
116P	2016 04 30.11216	15 51 24.49	−23 24 57.4	14.3	N	K I39
116P	2016 04 30.11723	15 51 24.27	−23 24 57.7	14.4	N	K I39
116P	2016 05 01.01329	15 50 47.46	−23 25 18.7	14.9	N	C23
116P	2016 05 01.01554	15 50 47.32	−23 25 18.6	14.7	N	C23
116P	2016 05 01.01779	15 50 47.30	−23 25 19.3	14.8	N	C23
116P	2016 05 01.02003	15 50 47.10	−23 25 18.8	14.7	N	C23
116P	2016 05 01.17479	15 50 40.49	−23 25 18.6	14.5	N	J22
116P	2016 05 01.17632	15 50 40.46	−23 25 19.0	14.5	N	J22
116P	2016 05 01.18086	15 50 40.23	−23 25 19.3	14.5	N	J22
116P	2016 05 01.54420	15 50 25.07	−23 25 22.8	15.3	T	T05
116P	2016 05 01.55413	15 50 24.63	−23 25 22.9	15.2	T	T05
116P	2016 05 01.56194	15 50 24.30	−23 25 22.9	15.2	T	T05
116P	2016 05 01.56727	15 50 24.05	−23 25 23.1	15.2	T	T05
116P	2016 05 01.57066	15 50 23.88	−23 25 22.9	15.2	T	T05
116P	2016 05 01.72880	15 50 17.30	−23 25 18.8	14.8	N	Q68
116P	2016 05 01.75378	15 50 16.14	−23 25 19.0	14.8	N	Q68
116P	2016 05 02.56536	15 49 41.59	−23 25 29.5	15.2	T	T05
116P	2016 05 02.57839	15 49 41.01	−23 25 29.8	15.2	T	T05
116P	2016 05 02.58878	15 49 40.53	−23 25 29.2	15.2	T	T05
116P	2016 05 02.59507	15 49 40.25	−23 25 29.2	15.3	T	T05
116P	2016 05 02.65421	15 49 37.93	−23 25 24.3	14.8	N	Q68
116P	2016 05 02.67856	15 49 36.83	−23 25 24.8	14.8	N	Q68
116P	2016 05 02.72436	15 49 34.70	−23 25 32.5		K	D81
116P	2016 05 02.73630	15 49 34.35	−23 25 32.4	13.5	T	K D81
116P	2016 05 03.48153	15 49 01.99	−23 25 30.8	15.2	T	T05
116P	2016 05 03.49235	15 49 01.49	−23 25 30.7	15.2	T	T05
116P	2016 05 03.50306	15 49 00.98	−23 25 30.6	15.2	T	T05
116P	2016 05 03.50920	15 49 00.70	−23 25 30.6	15.2	T	T05
116P	2016 05 04.07631	15 48 35.57	−23 25 30.2	15.0	N	C23
116P	2016 05 04.07855	15 48 35.51	−23 25 30.5	14.9	N	C23
116P	2016 05 04.08155	15 48 35.39	−23 25 31.2	14.6	N	C23
116P	2016 05 04.43160	15 48 20.27	−23 25 19.8	14.8	N	32Q62
116P	2016 05 04.44628	15 48 19.62	−23 25 19.9	14.8	N	32Q62
116P	2016 05 04.69172	15 48 08.11	−23 25 26.8	14.9	N	Q21
116P	2016 05 04.69347	15 48 08.00	−23 25 25.1	15.1	N	Q21
116P	2016 05 04.69522	15 48 08.03	−23 25 25.6	14.9	N	Q21
116P	2016 05 04.76696	15 48 04.56	−23 25 17.1	14.8	N	Q68
116P	2016 05 04.77787	15 48 04.04	−23 25 17.1	14.8	N	Q68
116P	2016 05 05.04781	15 47 52.10	−23 25 22.3	15.6	N	K 215
116P	2016 05 05.04910	15 47 52.04	−23 25 22.3	15.6	N	K 215
116P	2016 05 05.05039	15 47 52.00	−23 25 23.2	15.5	N	K 215
116P	2016 05 06.06863	15 47 05.60	−23 25 09.9	15.4	N	C23
116P	2016 05 06.07313	15 47 05.35	−23 25 08.8	14.0	N	C23
116P	2016 05 06.07687	15 47 05.12	−23 25 09.3	14.8	N	C23
116P	2016 05 07.02221	15 46 21.36	−23 24 51.8	15.2	N	A71
116P	2016 05 07.02884	15 46 21.04	−23 24 51.7	15.3	N	A71
116P	2016 05 07.99396	15 45 35.85	−23 24 28.9	14.7	N	C10
116P	2016 05 08.00808	15 45 35.14	−23 24 28.4	14.7	N	C10
116P	2016 05 08.02373	15 45 34.41	−23 24 28.0	14.7	N	C10
116P	2016 05 08.33346	15 45 19.59	−23 24 19.0	15.5	N	H47
116P	2016 05 08.34198	15 45 19.16	−23 24 18.8	15.5	N	H47
116P	2016 05 08.34509	15 45 19.01	−23 24 18.6	15.0	N	H47
116P	2016 05 08.34865	15 45 18.83	−23 24 18.4	15.5	N	H47
116P	2016 05 08.97942	15 44 49.03	−23 24 00.9	14.7	N	C23
116P	2016 05 08.98242	15 44 48.87	−23 24 01.3	14.7	N	C23
116P	2016 05 08.98766	15 44 48.60	−23 24 01.3	14.9	N	C23
116P	2016 05 10.34981	15 43 42.61	−23 23 12.8	13.2	T	703
116P	2016 05 10.35583	15 43 42.34	−23 23 13.1	13.2	T	703
116P	2016 05 10.36185	15 43 41.94	−23 23 12.7	13.1	T	703
116P	2016 05 10.36787	15 43 41.79	−23 23 13.0	13.3	T	703
116P	2016 05 12.00922	15 42 22.58	−23 22 03.2	14.5	N	J22
116P	2016 05 12.01227	15 42 22.42	−23 22 03.1	14.5	N	J22

116P	2016 05 12.01531	15 42 22.26	−23 22 03.1	14.5	N	J22
116P	2016 05 12.42424	15 42 02.21	−23 21 43.5	15.0	T	T05
116P	2016 05 12.43458	15 42 01.68	−23 21 43.2	15.0	T	T05
116P	2016 05 12.44279	15 42 01.25	−23 21 42.8	15.0	T	T05
116P	2016 05 12.45554	15 42 00.59	−23 21 42.3	14.9	T	T05
116P	2016 05 12.53981	15 41 56.72	−23 21 38.8			K 367
116P	2016 05 12.54144	15 41 56.62	−23 21 38.6			K 367
116P	2016 05 12.54265	15 41 56.57	−23 21 38.5	13.1	T	K 367
116P	2016 05 12.68541	15 41 49.24	−23 21 31.8			900
116P	2016 05 12.69256	15 41 48.87	−23 21 31.6	12.0	T	900
116P	2016 05 12.91721	15 41 38.02	−23 21 21.1	14.2	T	583
116P	2016 05 12.95988	15 41 35.84	−23 21 18.9	14.3	T	583
116P	2016 05 13.00911	15 41 33.33	−23 21 16.5	14.4	T	583
116P	2016 05 13.08148	15 41 29.71	−23 21 12.5	14.0	N	K C23
116P	2016 05 13.08372	15 41 29.76	−23 21 12.6	14.3	N	K C23
116P	2016 05 13.42405	15 41 13.14	−23 20 53.8	15.4	T	T05
116P	2016 05 13.43597	15 41 12.55	−23 20 53.3	15.2	T	T05
116P	2016 05 13.44812	15 41 11.93	−23 20 52.7	15.2	T	T05
116P	2016 05 13.45981	15 41 11.33	−23 20 52.3	15.2	T	T05
116P	2016 05 13.62774	15 41 03.05	−23 20 38.0	14.6	N	Q68
116P	2016 05 13.65419	15 41 01.70	−23 20 36.0	14.7	N	Q68
116P	2016 05 14.33258	15 40 28.30	−23 20 05.6	15.3	N	K H47
116P	2016 05 14.33980	15 40 27.90	−23 20 05.0	15.3	N	K H47
116P	2016 05 14.34632	15 40 27.61	−23 20 05.1	15.3	N	K H47
116P	2016 05 14.42196	15 40 24.13	−23 20 00.5	14.9	T	T05
116P	2016 05 14.43321	15 40 23.54	−23 19 59.7	15.1	T	T05
116P	2016 05 14.45081	15 40 22.62	−23 19 58.8	15.1	T	T05
116P	2016 05 14.45742	15 40 22.29	−23 19 58.4	15.1	T	T05
116P	2016 05 14.59183	15 40 15.52	−23 19 43.5	15.1	N	K E94
116P	2016 05 14.62762	15 40 13.70	−23 19 41.5	14.9	N	K E94
116P	2016 05 14.66389	15 40 11.82	−23 19 39.5	14.8	N	K E94
116P	2016 05 14.70141	15 40 09.98	−23 19 36.4	14.9	N	K E94
116P	2016 05 15.62086	15 39 24.95	−23 18 44.9	14.7	N	Q68
116P	2016 05 15.64931	15 39 23.57	−23 18 43.3	14.6	N	Q68
116P	2016 05 18.00455	15 37 28.05	−23 16 17.3	14.7	N	A77
116P	2016 05 18.02545	15 37 26.92	−23 16 15.7	14.4	N	A77
116P	2016 05 18.04941	15 37 25.75	−23 16 14.1	14.7	N	A77
116P	2016 05 18.40237	15 37 08.71	−23 15 47.9	14.6	T	T05
116P	2016 05 18.41469	15 37 08.09	−23 15 47.3	14.5	T	T05
116P	2016 05 18.42796	15 37 07.41	−23 15 46.2	14.6	T	T05
116P	2016 05 18.43680	15 37 06.95	−23 15 45.5	14.6	T	T05
116P	2016 05 19.55370	15 36 12.73	−23 14 19.5	16.6	N	25Q62
116P	2016 05 19.55794	15 36 12.50	−23 14 19.2	16.6	N	25Q62

121P/Shoemaker-Holt

121P	2016 05 06.42628	15 12 34.795	+02 16 53.36	21.5	T	F51
121P	2016 05 06.44885	15 12 33.987	+02 16 54.42	21.5	T	F51
121P	2016 05 06.46028	15 12 33.574	+02 16 55.13	21.6	T	F51

129P/Shoemaker-Levy

129P	2016 05 06.98368	15 43 39.11	−16 14 02.6	19.6	T	K 215
129P	2016 05 06.98523	15 43 39.05	−16 14 02.6	19.4	T	K 215
129P	2016 05 06.98677	15 43 39.01	−16 14 02.7	19.2	T	K 215
129P	2016 05 07.45654	15 43 22.382	−16 12 52.27	20.8	T	F51
129P	2016 05 07.46765	15 43 21.973	−16 12 50.37	21.0	T	F51
129P	2016 05 07.47874	15 43 21.581	−16 12 48.97	20.6	T	F51
129P	2016 05 07.48979	15 43 21.162	−16 12 47.35	21.0	T	F51

146P/Shoemaker-LINEAR

146P	2016 04 19.80023	23 45 36.99	−20 05 28.0			1 Q62
146P	2016 04 19.80311	23 45 37.53	−20 05 24.8			1 Q62
146P	2016 04 19.80600	23 45 38.08	−20 05 21.7	17.2	T	1 Q62
146P	2016 05 04.81126	00 30 39.48	−15 12 23.6			1 Q62
146P	2016 05 04.81294	00 30 39.80	−15 12 21.4	15.9	T	1 Q62

158P/Kowal-LINEAR

158P	2016 05 02.25805	08 38 20.919	+18 44 51.07	20.6	T	F51
158P	2016 05 02.27006	08 38 21.233	+18 44 50.41	20.7	T	F51
158P	2016 05 02.28200	08 38 21.542	+18 44 49.75	20.4	T	F51
158P	2016 05 02.29402	08 38 21.861	+18 44 49.12	20.5	T	F51

162P/Siding Spring

162P	2016 03 15.10162	09 53 25.79	+50 46 34.8	18.7	T	G45
162P	2016 03 15.10219	09 53 25.78	+50 46 34.3	18.8	T	G45
162P	2016 03 15.10714	09 53 25.46	+50 46 31.0	18.7	T	G45
162P	2016 03 15.10761	09 53 25.43	+50 46 31.0	18.7	T	G45
162P	2016 03 15.11267	09 53 25.11	+50 46 27.4	18.7	T	G45
162P	2016 03 15.11314	09 53 25.08	+50 46 27.4	18.7	T	G45
162P	2016 03 15.11779	09 53 24.79	+50 46 24.2	18.2	T	G45
162P	2016 03 15.11819	09 53 24.75	+50 46 24.0	18.7	T	G45
162P	2016 03 15.11866	09 53 24.74	+50 46 23.7	18.6	T	G45
162P	2016 03 18.09812	09 50 33.07	+50 12 51.7	18.3	T	G45
162P	2016 03 18.10347	09 50 32.76	+50 12 48.3	18.3	T	G45
162P	2016 03 18.10856	09 50 32.49	+50 12 45.0	18.5	T	G45
162P	2016 03 18.10863	09 50 32.49	+50 12 44.7	18.7	T	G45
162P	2016 03 18.11365	09 50 32.21	+50 12 41.5	18.3	T	G45
162P	2016 03 18.11897	09 50 31.94	+50 12 37.5	18.5	T	G45
162P	2016 03 18.11904	09 50 31.91	+50 12 37.5	18.3	T	G45
162P	2016 04 19.19048	09 41 51.51	+43 14 09.4	20	T	C51
Geocentric position (km)		− 2623.9418	+ 4008.2750	+ 4905.4259		
162P	2016 04 19.32151	09 41 53.57	+43 12 24.3			C51
Geocentric position (km)		− 2645.1152	+ 4012.8941	+ 4890.2912		
162P	2016 04 19.45254	09 41 55.55	+43 10 37.2			C51
Geocentric position (km)		− 2666.2219	+ 4017.3300	+ 4875.1992		
162P	2016 04 19.64915	09 41 58.66	+43 07 57.0			C51
Geocentric position (km)		− 2675.0995	+ 4003.7777	+ 4881.4637		
162P	2016 04 19.78018	09 42 00.52	+43 06 11.3			C51
Geocentric position (km)		− 2696.2061	+ 4008.0324	+ 4866.3737		
162P	2016 04 19.84576	09 42 01.58	+43 05 17.8			C51
Geocentric position (km)		− 2683.8548	+ 3990.1568	+ 4887.7887		
162P	2016 04 19.91134	09 42 02.51	+43 04 23.9			C51
Geocentric position (km)		− 2671.4230	+ 3972.2450	+ 4909.0961		
162P	2016 04 19.97679	09 42 03.53	+43 03 32.2			C51
Geocentric position (km)		− 2704.9280	+ 3994.3240	+ 4872.7817		
162P	2016 04 20.17340	09 42 06.92	+43 00 52.2			C51
Geocentric position (km)		− 2713.5457	+ 3980.5656	+ 4879.2311		
162P	2016 04 20.43547	09 42 10.92	+42 57 18.4			C51
Geocentric position (km)		− 2755.6336	+ 3988.3746	+ 4849.2449		

162P	2016 04 30.87600	09 46 13.14	+40 37 15.1	18.3	N	K C23
162P	2016 04 30.88611	09 46 13.34	+40 37 07.8	18.1	N	K C23
162P	2016 05 02.15268	09 46 51.62	+40 20 20.9	18.7	T	703
162P	2016 05 02.15873	09 46 51.85	+40 20 14.8	19.1	T	703
162P	2016 05 02.16478	09 46 52.04	+40 20 10.8	19.2	T	703
162P	2016 05 02.17083	09 46 52.22	+40 20 05.3	19.4	T	703
162P	2016 05 02.89096	09 47 14.83	+40 10 35.7	19.0	N	J22
162P	2016 05 02.89272	09 47 14.79	+40 10 34.0	19.0	N	J22
162P	2016 05 02.89446	09 47 14.78	+40 10 31.6	19.0	N	J22
162P	2016 05 05.91635	09 48 54.98	+39 30 41.8	19.4	T	K 215
162P	2016 05 05.91828	09 48 55.05	+39 30 40.2	19.3	T	K 215
162P	2016 05 05.92021	09 48 55.15	+39 30 38.8	19.4	T	K 215
162P	2016 05 08.88816	09 50 42.39	+38 51 50.3	18.7	N	K C23
162P	2016 05 08.89321	09 50 42.49	+38 51 47.3	18.8	N	K C23
162P	2016 05 08.90128	09 50 42.79	+38 51 41.5	18.4	N	K C23

172P/Yeung

172P	2016 04 29.95850	11 52 49.17	+07 14 53.9	19.7	T	K 215
172P	2016 04 29.96004	11 52 49.14	+07 14 53.5	19.6	T	K 215
172P	2016 04 29.96159	11 52 49.08	+07 14 54.2	19.1	T	K 215

180P/NEAT

180P	2016 04 05.57568	15 10 09.92	+03 34 46.4	17.7	T	D95
180P	2016 04 05.57995	15 10 09.80	+03 34 46.7			D95
180P	2016 04 05.58850	15 10 09.57	+03 34 48.2			D95
180P	2016 04 06.06329	15 09 55.39	+03 35 33.3	17.9	N	K 160
180P	2016 04 06.06508	15 09 55.35	+03 35 33.6	17.6	N	K 160
180P	2016 04 07.09331	15 09 23.75	+03 37 08.9	18.3	N	K 160
180P	2016 04 07.09525	15 09 23.71	+03 37 08.7	18.0	N	K 160
180P	2016 04 07.09720	15 09 23.63	+03 37 08.2	18.1	N	K 160
180P	2016 04 13.07069	15 05 54.59	+03 44 16.0	17.4	N	K 160
180P	2016 04 13.07246	15 05 54.52	+03 44 16.5	18.3	N	K 160
180P	2016 04 13.07424	15 05 54.48	+03 44 17.0	18.0	N	K 160
180P	2016 04 18.97638	15 01 51.14	+03 47 01.7	18.7	N	K 160
180P	2016 04 18.97866	15 01 51.03	+03 47 01.7	18.8	N	K 160
180P	2016 04 18.98095	15 01 50.92	+03 47 02.7			K 160
180P	2016 04 19.98794	15 01 06.44	+03 46 59.9	18.4	N	K 160
180P	2016 04 19.99029	15 01 06.31	+03 47 00.3	18.0	N	K 160
180P	2016 04 19.99263	15 01 06.21	+03 47 00.3	17.8	N	K 160
180P	2016 04 20.07527	15 01 02.39	+03 46 59.2	17.0	N	K C23
180P	2016 04 20.08030	15 01 02.14	+03 46 59.2	17.0	N	K C23
180P	2016 04 20.08535	15 01 01.92	+03 46 59.3	17.0	N	K C23
180P	2016 04 27.08797	14 55 35.48	+03 42 19.7	17.2	N	I81
180P	2016 04 27.09081	14 55 35.41	+03 42 19.5	17.2	N	I81
180P	2016 04 27.09365	14 55 35.22	+03 42 18.9	17.0	N	I81
180P	2016 04 28.00960	14 54 51.03	+03 41 06.3	17.8	N	585
180P	2016 04 28.01031	14 54 50.98	+03 41 06.3	17.4	N	585
180P	2016 04 28.01102	14 54 50.94	+03 41 06.8	17.4	N	585
180P	2016 04 28.01173	14 54 50.90	+03 41 07.1	17.2	N	585
180P	2016 04 28.01243	14 54 50.89	+03 41 06.5	17.1	N	585
180P	2016 04 28.01385	14 54 50.82	+03 41 06.9	17.4	N	585
180P	2016 04 28.01456	14 54 50.78	+03 41 06.5	17.2	N	585
180P	2016 04 28.01527	14 54 50.70	+03 41 06.5	16.8	N	585
180P	2016 04 28.01597	14 54 50.73	+03 41 06.4	17.2	N	585
180P	2016 04 28.01668	14 54 50.63	+03 41 05.6	17.2	N	585
180P	2016 04 28.01739	14 54 50.63	+03 41 06.3	17.0	N	585
180P	2016 04 28.01810	14 54 50.59	+03 41 06.0	17.1	N	585
180P	2016 04 28.01881	14 54 50.56	+03 41 06.1	17.5	N	585
180P	2016 04 28.01951	14 54 50.56	+03 41 05.5	16.8	N	585
180P	2016 04 28.02022	14 54 50.48	+03 41 06.0	17.1	N	585
180P	2016 04 29.35307	14 53 45.56	+03 39 05.3	16.5	T	703
180P	2016 04 29.35717	14 53 45.42	+03 39 04.7	16.6	T	703
180P	2016 04 29.89901	14 53 19.31	+03 38 08.8	18.3	N	K K25
180P	2016 04 29.92171	14 53 18.17	+03 38 06.1	16.3	N	K C43
180P	2016 04 29.92742	14 53 17.88	+03 38 06.0	17.5	N	K K25
180P	2016 04 29.93153	14 53 17.64	+03 38 04.1	16.3	N	K C43
180P	2016 04 29.93699	14 53 17.35	+03 38 04.8	17.0	N	585
180P	2016 04 29.93770	14 53 17.33	+03 38 04.7	17.1	N	585
180P	2016 04 29.93841	14 53 17.31	+03 38 05.0	17.2	N	585
180P	2016 04 29.93911	14 53 17.21	+03 38 05.0	17.3	N	585
180P	2016 04 29.93982	14 53 17.18	+03 38 04.6	17.3	N	585
180P	2016 04 29.94053	14 53 17.18	+03 38 05.2	17.3	N	585
180P	2016 04 29.94124	14 53 17.10	+03 38 04.6	17.4	N	585
180P	2016 04 29.94194	14 53 17.08	+03 38 04.0	17.3	N	585
180P	2016 04 29.94336	14 53 17.01	+03 38 04.4	17.4	N	585
180P	2016 04 29.94407	14 53 16.97	+03 38 04.1	17.4	N	585
180P	2016 04 29.94478	14 53 16.95	+03 38 04.1	17.3	N	585
180P	2016 04 29.94549	14 53 16.93	+03 38 04.2	17.3	N	585
180P	2016 04 29.94620	14 53 16.92	+03 38 03.8	17.4	N	585
180P	2016 04 29.94690	14 53 16.80	+03 38 03.9	17.4	N	585
180P	2016 04 29.94761	14 53 16.78	+03 38 03.7	17.2	N	585
180P	2016 04 29.94832	14 53 16.80	+03 38 03.7	17.2	N	585
180P	2016 04 29.94903	14 53 16.73	+03 38 04.0	17.1	N	585
180P	2016 04 29.94973	14 53 16.69	+03 38 03.7	17.2	N	585
180P	2016 04 29.97273	14 53 15.54	+03 38 01.0	17.7	N	A71
180P	2016 04 29.97633	14 53 15.38	+03 38 00.7	17.7	N	A71
180P	2016 04 29.97992	14 53 15.21	+03 38 00.7	17.4	N	A71
180P	2016 04 29.98352	14 53 15.02	+03 38 00.3	17.6	N	A71
180P	2016 04 30.98025	14 52 26.37	+03 36 09.8	17.7	N	K K02
180P	2016 04 30.98547	14 52 26.13	+03 36 09.5	17.8	N	K K02
180P	2016 04 30.98997	14 52 25.90	+03 36 08.7	17.7	N	K C23
180P	2016 04 30.99430	14 52 25.66	+03 36 08.1	17.2	N	K C23
180P	2016 04 30.99719	14 52 25.49	+03 36 07.3	17.2	N	K C23
180P	2016 05 02.01884	14 51 35.49	+03 34 05.2	17.5	N	J22
180P	2016 05 02.02338	14 51 35.28	+03 34 04.7	17.5	N	J22
180P	2016 05 02.02779	14 51 34.97	+03 34 03.6	17.5	N	J22
180P	2016 05 02.52579	14 51 10.31	+03 32 59.7	18.0	T	T05
180P	2016 05 02.54191	14 51 09.61	+03 32 58.5	18.1	T	T05
180P	2016 05 02.55761	14 51 08.75	+03 32 56.4	17.9	T	T05
180P	2016 05 02.57231	14 51 07.96	+03 32 53.5	18.1	T	T05
180P	2016 05 02.87675	14 50 53.58	+03 32 11.8	18.0	N	K K25
180P	2016 05 02.88588	14 50 53.08	+03 32 10.3	18.0	N	K K25
180P	2016 05 02.99001	14 50 47.77	+03 31 56.5	17.4	N	K K61
180P	2016 05 02.99102	14 50 47.74	+03 31 55.9	17.7	N	K K61
180P	2016 05 03.86554	14 50 05.13	+03 29 51.3	16.9	N	K K21
180P	2016 05 03.88889	14 50 03.86	+03 29 48.2	17.4	N	K K21
180P	2016 05 03.90141	14 50 03.38	+03 29 45.9	17.6	N	I72

180P	2016 05 03.91787	14 50 02.54	+03 29 44.1	17.5	N	I72
180P	2016 05 03.96337	14 50 00.26	+03 29 37.1	17.5	N	I72
180P	2016 05 04.02601	14 49 57.08	+03 29 27.9	17.5	N	K C23
180P	2016 05 04.02983	14 49 56.82	+03 29 27.0	17.4	N	K C23
180P	2016 05 04.03416	14 49 56.63	+03 29 26.2	17.4	N	K C23
180P	2016 05 04.62013	14 49 28.06	+03 27 58.5	18.0	N	K Q21
180P	2016 05 04.63091	14 49 27.53	+03 27 56.6	17.9	N	K Q21
180P	2016 05 04.82087	14 49 18.63	+03 27 25.4	19.5	N	K K41
180P	2016 05 04.82307	14 49 18.47	+03 27 26.0	18.5	N	K K41
180P	2016 05 04.82527	14 49 18.22	+03 27 24.5	18.1	N	K K41
180P	2016 05 04.82747	14 49 18.23	+03 27 24.3	18.1	N	K K41
180P	2016 05 04.82969	14 49 17.95	+03 27 25.8	17.8	N	K K41
180P	2016 05 04.89560	14 49 14.73	+03 27 14.6	17.9	N	K K25
180P	2016 05 04.91084	14 49 14.00	+03 27 12.1	17.8	N	K K25
180P	2016 05 04.92608	14 49 13.24	+03 27 09.6	17.7	N	K K25
180P	2016 05 05.96473	14 48 22.53	+03 24 19.2			K 107
180P	2016 05 05.98330	14 48 21.54	+03 24 15.7			K 107
180P	2016 05 06.00161	14 48 20.71	+03 24 12.8	18.0	N	K 160
180P	2016 05 06.00405	14 48 20.57	+03 24 11.8	17.9	N	K 160
180P	2016 05 06.00615	14 48 20.45	+03 24 12.5			K 107
180P	2016 05 06.00633	14 48 20.47	+03 24 11.6	18.1	N	K 160
180P	2016 05 06.99597	14 47 32.47	+03 21 17.8	18.0	N	K 160
180P	2016 05 06.99832	14 47 32.33	+03 21 17.0	18.0	N	K 160
180P	2016 05 07.00068	14 47 32.18	+03 21 16.6	18.0	N	K 160
180P	2016 05 07.17089	14 47 24.16	+03 20 46.3	17.5	N	K H47
180P	2016 05 07.18722	14 47 23.30	+03 20 43.0	17.5	N	K H47
180P	2016 05 07.19527	14 47 22.94	+03 20 42.2	17.4	N	K H47
180P	2016 05 08.19120	14 46 34.99	+03 17 33.4	17.0	T	G45
180P	2016 05 08.20184	14 46 34.60	+03 17 31.8	17.0	T	G45
180P	2016 05 08.20744	14 46 34.19	+03 17 30.3	17.4	T	G45
180P	2016 05 08.21276	14 46 33.92	+03 17 29.7	17.2	T	G45
180P	2016 05 08.29370	14 46 29.90	+03 17 13.9	18.2	N	K H47
180P	2016 05 08.31379	14 46 28.90	+03 17 09.5	17.6	N	K H47
180P	2016 05 08.32434	14 46 28.38	+03 17 07.6	18.0	N	K H47
180P	2016 05 08.96516	14 45 57.92	+03 14 57.9	17.2	N	K C23
180P	2016 05 08.96877	14 45 57.74	+03 14 57.9	17.3	N	K C23
180P	2016 05 08.97526	14 45 57.37	+03 14 56.5	17.4	N	K C23
180P	2016 05 10.28929	14 44 54.74	+03 10 21.2	16.8	T	703
180P	2016 05 10.29264	14 44 54.85	+03 10 19.8	17.5	T	H15
180P	2016 05 10.29633	14 44 54.51	+03 10 19.8	16.9	T	703
180P	2016 05 10.30337	14 44 54.28	+03 10 17.8	16.7	T	703
180P	2016 05 10.30350	14 44 54.30	+03 10 17.9	17.4	T	H15
180P	2016 05 10.31041	14 44 53.90	+03 10 15.1	17.0	T	703
180P	2016 05 10.31325	14 44 53.82	+03 10 16.0	17.3	T	H15
180P	2016 05 11.30465	14 44 07.41	+03 06 34.4	17.3	T	G96
180P	2016 05 11.30917	14 44 07.19	+03 06 33.3	17.4	T	G96
180P	2016 05 11.31368	14 44 06.94	+03 06 32.3	17.1	T	G96
180P	2016 05 11.31819	14 44 06.78	+03 06 30.5			G96
180P	2016 05 11.98955	14 43 35.85	+03 03 55.8	17.6	N	J22
180P	2016 05 11.99397	14 43 35.65	+03 03 54.6	17.6	N	J22
180P	2016 05 11.99837	14 43 35.40	+03 03 53.3	17.6	N	J22
180P	2016 05 12.02452	14 43 34.12	+03 03 46.4	18.4	N	K 958
180P	2016 05 12.03118	14 43 33.80	+03 03 44.3	18.4	N	K 958
180P	2016 05 12.03988	14 43 33.22	+03 03 42.6	18.1	N	K 958
180P	2016 05 12.70299	14 43 02.74	+03 01 03.5			900
180P	2016 05 12.71014	14 43 02.42	+03 01 01.8	17.5	T	900
180P	2016 05 17.89207	14 39 14.52	+02 37 33.8			K 107
180P	2016 05 17.92707	14 39 12.98	+02 37 23.5			K 107
180P	2016 05 17.96135	14 39 11.47	+02 37 12.5			K 107

186P/Garradd

186P	2016 05 02.90062	08 54 10.63	+20 45 26.1	19.5	N	J22
186P	2016 05 02.90949	08 54 10.66	+20 45 25.8	19.5	N	J22

188P/LINEAR-Mueller

188P	2016 04 19.79896	22 14 14.28	−18 14 11.8			1 Q62
188P	2016 04 19.80104	22 14 14.44	−18 14 10.8			1 Q62
188P	2016 04 19.80312	22 14 14.58	−18 14 09.8	19.9	T	1 Q62

194P/LINEAR

194P	2016 05 02.25397	08 21 01.915	+22 59 37.02	20.4	T	F51
194P	2016 05 02.26591	08 21 03.612	+22 59 26.36	20.3	T	F51
194P	2016 05 02.27793	08 21 05.307	+22 59 15.54	20.3	T	F51
194P	2016 05 02.28994	08 21 07.024	+22 59 04.77	20.3	T	F51

201P/LONEOS

201P	2015 02 11.45184	02 14 22.71	+19 35 33.1	14.9	T	349
201P	2015 02 11.46152	02 14 24.69	+19 35 44.9			349
201P	2015 02 11.47115	02 14 26.66	+19 35 56.6			349

204P/LINEAR-NEAT

204P	2016 03 16.87570	08 21 37.08	+25 33 40.8	17.5	T	K 585
204P	2016 03 16.87659	08 21 37.12	+25 33 40.8	18.9	N	K 585
204P	2016 03 16.87907	08 21 37.21	+25 33 41.2	18.5	N	K 585
204P	2016 03 27.80115	08 30 40.23	+25 09 33.1	18.6	N	K 585
204P	2016 03 27.80153	08 30 40.24	+25 09 32.9	18.9	N	K 585
204P	2016 03 27.80265	08 30 40.31	+25 09 32.7	19.0	N	K 585
204P	2016 03 27.80340	08 30 40.36	+25 09 32.5	18.9	N	K 585
204P	2016 03 27.80414	08 30 40.37	+25 09 32.8	18.8	N	K 585
204P	2016 03 27.80489	08 30 40.43	+25 09 32.5	18.6	N	K 585
204P	2016 03 27.80563	08 30 40.48	+25 09 32.4	18.7	N	K 585
204P	2016 03 27.80602	08 30 40.50	+25 09 32.5	18.7	N	K 585
204P	2016 03 27.80751	08 30 40.62	+25 09 32.4	18.5	N	K 585
204P	2016 05 02.91222	09 15 47.95	+22 05 53.5	19.7	N	J22
204P	2016 05 02.91441	09 15 48.08	+22 05 50.9	19.7	N	J22
204P	2016 05 02.92105	09 15 48.35	+22 05 42.8	19.7	N	J22

211P/Hill

211P	2016 03 10.90370	07 49 31.23	+29 23 31.3	18.2	N	K 585
211P	2016 03 10.90441	07 49 31.22	+29 23 31.9	18.5	N	K 585
211P	2016 03 10.90511	07 49 31.10	+29 23 33.7	18.4	N	K 585
211P	2016 03 10.90582	07 49 31.21	+29 23 32.6	18.4	N	K 585
211P	2016 03 10.90901	07 49 31.15	+29 23 35.1	18.5	N	K 585
211P	2016 04 05.85124	08 08 22.84	+30 18 09.9	19.9	N	K 160
211P	2016 04 05.85304	08 08 22.99	+30 18 09.3	19.2	N	K 160
211P	2016 04 05.85483	08 08 23.07	+30 18 09.6	19.0	N	K 160
211P	2016 04 06.84036	08 09 25.73	+30 18 07.0	18.9	N	K 160
211P	2016 04 06.84214	08 09 25.83	+30 18 06.9	19.1	N	K 160
211P	2016 05 05.90066	08 47 38.31	+29 17 50.7	19.6	T	K 215

211P	2016 05 05.90221	08 47 38.40	+29 17 50.6	19.5	T	K 215
211P	2016 05 05.90375	08 47 38.53	+29 17 50.6	19.3	T	K 215

216P/LINEAR

216P	2016 03 28.10451	06 51 25.68	+31 11 18.2			32H06
216P	2016 03 28.10691	06 51 25.82	+31 11 16.6			32H06
216P	2016 03 28.10931	06 51 26.05	+31 11 16.0	20.7	T	32H06
216P	2016 04 27.88730	07 41 44.96	+27 16 59.6	19.7	T	K 215
216P	2016 04 27.88924	07 41 45.10	+27 17 00.1	20.1	T	K 215
216P	2016 04 27.89120	07 41 45.39	+27 16 57.0	20.2	T	K 215

219P/LINEAR

219P	2016 05 04.66411	18 22 12.19	−15 49 19.6			1 Q62
219P	2016 05 04.66619	18 22 12.20	−15 49 18.5			1 Q62
219P	2016 05 04.66828	18 22 12.22	−15 49 17.8	19.3	T	1 Q62
219P	2016 05 15.19128	18 20 59.18	−14 55 37.9			9 G40
219P	2016 05 15.19714	18 20 59.11	−14 55 35.7			9 G40
219P	2016 05 15.20234	18 20 58.99	−14 55 34.2	19.4	N	9 G40

230P/LINEAR

230P	2016 03 10.88120	06 25 40.32	+28 18 42.0	16.9	T	K 585
230P	2016 03 10.88180	06 25 40.37	+28 18 42.1	16.7	T	K 585
230P	2016 03 10.88239	06 25 40.45	+28 18 42.5	16.9	T	K 585
230P	2016 03 10.88298	06 25 40.54	+28 18 43.0	17.1	N	K 585
230P	2016 03 10.88357	06 25 40.58	+28 18 42.8	17.2	N	K 585
230P	2016 03 10.88416	06 25 40.67	+28 18 43.4	17.3	N	K 585
230P	2016 03 10.88476	06 25 40.70	+28 18 43.1	17.2	N	K 585
230P	2016 03 10.88535	06 25 40.79	+28 18 43.1	17.2	N	K 585
230P	2016 03 10.88653	06 25 40.91	+28 18 43.9	17.2	N	K 585
230P	2016 03 27.10120	06 56 57.68	+29 12 32.4			32H06
230P	2016 03 27.10521	06 56 58.13	+29 12 32.4	17.7	T	32H06
230P	2016 03 27.82095	06 58 22.80	+29 13 34.7	17.2	N	K 585
230P	2016 03 27.82167	06 58 22.90	+29 13 34.9	17.3	N	K 585
230P	2016 03 27.82239	06 58 22.99	+29 13 35.2	17.3	N	K 585
230P	2016 03 27.82311	06 58 23.05	+29 13 34.9	17.4	N	K 585
230P	2016 03 27.82419	06 58 23.17	+29 13 34.9	17.4	N	K 585
230P	2016 03 27.82491	06 58 23.28	+29 13 35.0	17.4	N	K 585
230P	2016 03 27.82561	06 58 23.35	+29 13 34.7	17.3	N	K 585
230P	2016 03 27.82632	06 58 23.43	+29 13 34.9	17.2	N	K 585
230P	2016 03 27.82703	06 58 23.50	+29 13 34.9	17.3	N	K 585
230P	2016 03 27.82809	06 58 23.65	+29 13 34.8	17.3	N	K 585
230P	2016 03 27.82844	06 58 23.69	+29 13 34.9	17.3	N	K 585
230P	2016 03 27.82915	06 58 23.78	+29 13 35.0	17.3	N	K 585
230P	2016 04 06.82373	07 18 16.27	+29 18 21.0	19.2	N	K 160
230P	2016 04 06.82555	07 18 16.52	+29 18 21.7	19.2	N	K 160
230P	2016 04 06.82737	07 18 16.76	+29 18 22.0	19.0	N	K 160
230P	2016 05 05.88271	08 15 59.71	+28 03 20.0	19.5	T	K 215
230P	2016 05 05.88425	08 15 59.90	+28 03 19.5	19.5	T	K 215
230P	2016 05 05.88580	08 16 00.04	+28 03 18.8			K 215

237P/LINEAR

237P	2016 03 30.55192	13 20 57.17	−25 55 52.1			1 Q62
237P	2016 03 30.55363	13 20 57.10	−25 55 51.5			1 Q62
237P	2016 03 30.55534	13 20 57.02	−25 55 50.8	18.9	T	1 Q62
237P	2016 04 11.25668	13 12 44.56	−24 43 10.7	18.9	T	G45
237P	2016 04 11.26147	13 12 44.22	−24 43 08.3	17.9	T	G45
237P	2016 04 11.26790	13 12 44.02	−24 43 05.5	18.9	T	G45
237P	2016 04 11.27265	13 12 43.80	−24 43 03.2	18.8	T	G45
237P	2016 04 11.28218	13 12 43.35	−24 42 59.6	18.6	T	G45
237P	2016 04 27.21869	13 01 22.45	−22 11 10.6	17.6	T	G45
237P	2016 04 27.22263	13 01 22.29	−22 11 07.9	17.8	T	G45
237P	2016 04 27.22708	13 01 22.11	−22 11 05.1	17.8	T	G45
237P	2016 04 27.23169	13 01 21.93	−22 11 02.0	17.8	T	G45
237P	2016 04 27.93203	13 00 55.45	−22 03 24.6	17.5	T	K 215
237P	2016 04 27.93331	13 00 55.39	−22 03 23.8	17.6	T	K 215
237P	2016 04 27.93460	13 00 55.34	−22 03 22.7	17.6	T	K 215
237P	2016 04 27.99119	13 00 53.06	−22 02 44.5	17.3	N	K 585
237P	2016 04 27.99402	13 00 53.02	−22 02 41.6	17.2	N	K 585
237P	2016 04 29.91920	12 59 43.09	−21 41 28.0	17.5	N	K 585
237P	2016 04 29.91991	12 59 43.07	−21 41 27.5	17.6	N	K 585
237P	2016 04 29.92061	12 59 43.05	−21 41 26.7	17.6	N	K 585
237P	2016 04 29.92133	12 59 42.99	−21 41 26.9	17.7	N	K 585
237P	2016 04 29.92204	12 59 42.96	−21 41 26.1	17.7	N	K 585
237P	2016 04 29.92275	12 59 42.92	−21 41 25.7	17.7	N	K 585
237P	2016 04 29.92346	12 59 42.89	−21 41 25.3	17.5	N	K 585
237P	2016 04 29.92417	12 59 42.93	−21 41 25.0	17.5	N	K 585
237P	2016 04 29.92488	12 59 42.88	−21 41 24.5	17.5	N	K 585
237P	2016 04 29.92559	12 59 42.86	−21 41 23.9	17.5	N	K 585
237P	2016 04 29.92630	12 59 42.83	−21 41 23.4	17.5	N	K 585
237P	2016 04 29.92700	12 59 42.81	−21 41 22.7	17.4	N	K 585
237P	2016 04 29.92771	12 59 42.80	−21 41 22.3	17.5	N	K 585
237P	2016 04 29.92841	12 59 42.77	−21 41 22.1	17.5	N	K 585
237P	2016 05 01.99426	12 58 32.25	−21 18 10.3	17.1	N	J22
237P	2016 05 02.00053	12 58 31.99	−21 18 07.0	17.1	N	J22
237P	2016 05 02.00263	12 58 31.96	−21 18 04.8	17.1	N	J22
237P	2016 05 05.52745	12 56 43.77	−20 38 03.2	15.8	N	Q21
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237P	2016 05 06.34686	12 56 20.89	−20 28 38.0	17.3	T	T05
237P	2016 05 06.35773	12 56 20.64	−20 28 30.6	17.6	T	T05
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237P	2016 05 06.38336	12 56 19.82	−20 28 12.5	17.7	T	T05
237P	2016 05 06.38586	12 56 19.75	−20 28 11.0	17.4	T	T05
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237P	2016 05 09.23504	12 55 08.31	−19 55 36.3	16.8	T	703
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237P	2016 05 12.36444	12 54 04.16	−19 20 00.8	17.0	T	T05
237P	2016 05 13.42632	12 53 46.22	−19 07 57.9	15.6	N	32Q62
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252P	2016 04 05.07668	17 34 06.02	−04 38 03.3	12.6	N	585
252P	2016 04 05.07704	17 34 06.01	−04 38 01.4	12.6	N	585
252P	2016 04 05.07740	17 34 06.00	−04 37 59.6	12.6	N	585
252P	2016 04 05.07777	17 34 05.99	−04 37 57.8	12.5	N	585
252P	2016 04 05.07813	17 34 05.97	−04 37 56.3	12.5	N	585
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252P	2016 04 05.08146	17 34 05.89	−04 37 39.8	12.5	N	585
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252P	2016 04 05.09801	17 34 05.38	−04 36 16.4	12.0	N	585
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252P	2016 05 01.00896	17 17 47.12	+08 35 18.8	14.4	N	C23
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252P	2016 05 01.04121	17 17 44.87	+08 35 33.2	14.8	N	C23
252P	2016 05 01.04570	17 17 44.55	+08 35 34.9	14.3	N	C23
252P	2016 05 01.06957	17 17 42.86	+08 35 49.4	14.6	N	K A77
252P	2016 05 01.07675	17 17 42.34	+08 35 52.2	14.5	N	K A77
252P	2016 05 01.07795	17 17 42.27	+08 35 52.7	15.0	N	K A77
252P	2016 05 01.08218	17 17 42.15	+08 35 55.2	13.8	N	B54
252P	2016 05 01.08248	17 17 42.15	+08 35 55.2	13.9	N	B54
252P	2016 05 01.08318	17 17 41.89	+08 35 53.3	14.5	N	K A77
252P	2016 05 01.09195	17 17 41.26	+08 35 59.5	15.0	N	K A77
252P	2016 05 01.11591	17 17 39.55	+08 36 09.5	10.6	T	K A77
252P	2016 05 01.13941	17 17 38.63	+08 36 26.9	13.7	N	J22
252P	2016 05 01.14105	17 17 38.48	+08 36 28.0	13.7	N	J22
252P	2016 05 01.14270	17 17 38.42	+08 36 28.7	13.7	N	J22
252P	2016 05 01.75724	17 16 59.46	+08 41 10.3	14.3	N	Q68
252P	2016 05 01.78165	17 16 57.66	+08 41 19.4	14.3	N	Q68
252P	2016 05 02.75934	17 15 57.17	+08 46 28.4			D81
252P	2016 05 02.75980	17 15 57.16	+08 46 28.7			D81
252P	2016 05 02.76022	17 15 57.10	+08 46 28.3			D81
252P	2016 05 02.76065	17 15 57.05	+08 46 28.5	8.0	T	D81
252P	2016 05 02.91223	17 15 49.62	+08 47 13.0	13.8	N	I72
252P	2016 05 02.94444	17 15 47.44	+08 47 24.6	13.9	N	I72
252P	2016 05 02.95969	17 15 46.39	+08 47 29.5	13.9	N	I72
252P	2016 05 02.96164	17 15 46.00	+08 47 29.3	13.7	N	K K21
252P	2016 05 02.97294	17 15 45.22	+08 47 33.1	13.8	N	K K21
252P	2016 05 02.98561	17 15 44.35	+08 47 37.6	13.1	N	K K21
252P	2016 05 03.02244	17 15 41.62	+08 47 42.9	14.6	N	I81
252P	2016 05 03.02396	17 15 41.52	+08 47 43.3	14.2	N	I81
252P	2016 05 03.02548	17 15 41.36	+08 47 43.5	14.7	N	I81
252P	2016 05 03.03050	17 15 40.77	+08 47 49.3	14.8	N	K61
252P	2016 05 03.03111	17 15 40.73	+08 47 49.4	14.8	N	K K61
252P	2016 05 03.03232	17 15 40.63	+08 47 50.0	15.5	N	K K61
252P	2016 05 03.05881	17 15 39.02	+08 47 57.8	15.2	N	K02
252P	2016 05 03.06324	17 15 38.71	+08 47 59.1	15.1	N	K02
252P	2016 05 03.06917	17 15 38.29	+08 48 00.9	14.7	N	K02
252P	2016 05 03.77058	17 14 53.32	+08 51 34.9	11.4	T	D29
252P	2016 05 03.78472	17 14 52.12	+08 51 38.6	11.2	T	D29
252P	2016 05 03.79886	17 14 50.98	+08 51 43.4	11.3	T	D29
252P	2016 05 03.90271	17 14 46.42	+08 52 07.1	13.9	N	I72
252P	2016 05 03.93439	17 14 44.32	+08 52 16.3	14.0	N	I72
252P	2016 05 03.93497	17 14 43.87	+08 52 12.1	15.0	N	C23
252P	2016 05 03.94172	17 14 43.43	+08 52 14.3	14.7	N	C23
252P	2016 05 03.94921	17 14 42.87	+08 52 16.4	14.9	N	C23
252P	2016 05 03.96476	17 14 42.20	+08 52 25.0	14.0	N	I72
252P	2016 05 04.03703	17 14 36.61	+08 52 40.8	14.9	N	C23
252P	2016 05 04.04677	17 14 35.90	+08 52 43.3	14.5	N	C23
252P	2016 05 04.05876	17 14 35.02	+08 52 46.6	14.6	N	C23
252P	2016 05 04.09845	17 14 32.10	+08 53 00.6	15.1	N	K A77
252P	2016 05 04.10262	17 14 31.79	+08 53 02.4	15.0	N	K A77
252P	2016 05 04.630043	17 13 56.634	+08 55 24.25	14.9	T	2 568
252P	2016 05 04.630561	17 13 56.592	+08 55 24.36	14.9	T	2 568
252P	2016 05 04.630914	17 13 56.566	+08 55 24.45	14.9	T	2 568
252P	2016 05 04.631291	17 13 56.536	+08 55 24.52	14.9	T	2 568
252P	2016 05 04.632010	17 13 56.484	+08 55 24.68	15.0	T	2 568
252P	2016 05 04.632604	17 13 56.438	+08 55 24.80	14.9	T	2 568
252P	2016 05 04.64145	17 13 57.90	+08 55 18.1	14.7	N	Q21
252P	2016 05 04.65193	17 13 57.09	+08 55 20.8	14.7	N	Q21
252P	2016 05 04.66588	17 13 56.05	+08 55 24.5	14.7	N	Q21
252P	2016 05 04.67112	17 13 55.63	+08 55 25.7	14.6	N	Q21
252P	2016 05 04.67986	17 13 55.00	+08 55 28.2	14.4	N	Q21
252P	2016 05 04.78163	17 13 46.96	+08 56 27.4	14.5	N	Q68
252P	2016 05 04.80448	17 13 45.26	+08 56 32.2	14.5	N	Q68
252P	2016 05 04.92597	17 13 40.14	+08 56 19.6	15.3	N	K14
252P	2016 05 04.92998	17 13 39.86	+08 56 20.9	15.2	N	K14
252P	2016 05 04.93797	17 13 39.28	+08 56 22.8	15.3	N	K14
252P	2016 05 04.93815	17 13 38.88	+08 56 18.2	14.6	T	K K46
252P	2016 05 04.94718	17 13 38.24	+08 56 20.3	14.6	T	K K46
252P	2016 05 04.95134	17 13 37.92	+08 56 21.3	14.6	T	K K46
252P	2016 05 04.95412	17 13 37.73	+08 56 22.1	14.6	T	K K46
252P	2016 05 05.01731	17 13 33.34	+08 56 38.7	14.8	N	B83
252P	2016 05 05.03421	17 13 32.11	+08 56 42.5	15.3	N	B83
252P	2016 05 05.05258	17 13 30.70	+08 56 46.5	14.7	N	B83
252P	2016 05 05.06820	17 13 29.56	+08 56 49.8	15.2	N	B83
252P	2016 05 05.10788	17 13 26.66	+08 56 57.2	13.6	N	K10
252P	2016 05 05.11492	17 13 26.08	+08 56 59.4	13.2	N	K10
252P	2016 05 05.12376	17 13 25.36	+08 57 00.5	13.3	N	K10
252P	2016 05 05.39361	17 13 07.65	+08 58 02.4	14.4	N	K H47
252P	2016 05 05.40333	17 13 06.98	+08 58 03.0	12.4	N	H45
252P	2016 05 05.40582	17 13 06.71	+08 58 05.0	14.4	N	K H47
252P	2016 05 05.40668	17 13 06.72	+08 58 03.6	12.4	N	H45
252P	2016 05 05.40793	17 13 06.63	+08 58 03.9	12.5	N	H45
252P	2016 05 05.40899	17 13 06.55	+08 58 04.0	12.4	N	H45
252P	2016 05 05.40990	17 13 06.48	+08 58 04.3	9.7	T	H45
252P	2016 05 05.41348	17 13 06.12	+08 58 06.5	14.4	N	K H47
252P	2016 05 05.60125	17 12 55.65	+08 58 39.3	14.6	N	Q21
252P	2016 05 05.60300	17 12 55.51	+08 58 39.5	14.6	N	Q21
252P	2016 05 05.60475	17 12 55.38	+08 58 40.4	14.7	N	Q21
252P	2016 05 05.60649	17 12 55.26	+08 58 41.1	14.7	N	Q21
252P	2016 05 05.60824	17 12 55.14	+08 58 41.3	14.6	N	Q21
252P	2016 05 05.60999	17 12 55.01	+08 58 41.2	14.6	N	Q21
252P	2016 05 05.61174	17 12 54.87	+08 58 41.5	14.6	N	Q21
252P	2016 05 05.61348	17 12 54.73	+08 58 42.1	14.6	N	Q21
252P	2016 05 05.61523	17 12 54.61	+08 58 42.2	14.6	N	Q21
252P	2016 05 05.61698	17 12 54.45	+08 58 42.3	14.6	N	Q21
252P	2016 05 05.99597	17 12 30.14	+08 59 53.0	14.2	N	J22
252P	2016 05 05.99764	17 12 30.04	+08 59 53.1	14.2	N	J22

252P	2016 05 05.99928	17 12 29.93	+08 59 53.0	14.2	N	J22	252P	2016 05 08.88166	17 09 17.36	+09 04 33.9	12.5	N	A98
252P	2016 05 06.00085	17 12 28.75	+08 59 45.6	16.2	N	C47	252P	2016 05 08.88696	17 09 17.00	+09 04 34.0	12.4	N	A98
252P	2016 05 06.00372	17 12 28.51	+08 59 46.0	16.3	N	C47	252P	2016 05 08.88907	17 09 16.81	+09 04 33.4	12.5	N	A98
252P	2016 05 06.00730	17 12 28.27	+08 59 46.8	16.1	N	C47	252P	2016 05 08.89120	17 09 16.62	+09 04 34.4	12.4	N	A98
252P	2016 05 06.01088	17 12 28.01	+08 59 47.1	15.7	N	C47	252P	2016 05 08.99868	17 09 09.33	+09 04 39.4	15.1	N	K02
252P	2016 05 06.01421	17 12 27.91	+08 59 49.8			107	252P	2016 05 09.00469	17 09 08.88	+09 04 39.9	15.5	N	K02
252P	2016 05 06.01446	17 12 27.76	+08 59 47.8	15.3	N	C47	252P	2016 05 09.01355	17 09 08.18	+09 04 40.1	15.6	N	K02
252P	2016 05 06.01804	17 12 27.47	+08 59 48.4	15.7	N	C47	252P	2016 05 09.04242	17 09 05.93	+09 04 41.2	15.2	N	C23
252P	2016 05 06.02162	17 12 27.21	+08 59 49.0	16.1	N	C47	252P	2016 05 09.05066	17 09 05.37	+09 04 41.8	14.7	N	C23
252P	2016 05 06.02268	17 12 27.25	+08 59 51.0	14.9	N	K 160	252P	2016 05 09.06040	17 09 04.58	+09 04 41.6	15.3	N	C23
252P	2016 05 06.02682	17 12 26.99	+08 59 51.9	14.9	N	K 160	252P	2016 05 09.99593	17 08 02.19	+09 04 46.8	14.7	N	I81
252P	2016 05 06.02923	17 12 26.85	+08 59 49.0	15.1	N	C23	252P	2016 05 10.00623	17 08 01.44	+09 04 46.6	14.7	N	I81
252P	2016 05 06.03057	17 12 26.16	+08 59 48.7	12.1	N	C36	252P	2016 05 10.01731	17 08 00.62	+09 04 46.9	15.1	N	I81
252P	2016 05 06.03073	17 12 26.77	+08 59 49.2	14.6	N	C23	252P	2016 05 11.01155	17 06 53.63	+09 04 14.3	14.9	N	I81
252P	2016 05 06.03097	17 12 26.64	+08 59 52.9	14.9	N	K 160	252P	2016 05 11.01523	17 06 53.37	+09 04 13.7	15.2	N	I81
252P	2016 05 06.03162	17 12 26.11	+08 59 48.7	12.3	N	C36	252P	2016 05 11.01959	17 06 53.04	+09 04 13.9	14.9	N	I81
252P	2016 05 06.03269	17 12 26.02	+08 59 48.8	12.3	N	C36	252P	2016 05 11.73119	17 06 04.42	+09 03 35.1	15.1	N	367
252P	2016 05 06.03374	17 12 25.94	+08 59 48.9	12.2	N	C36	252P	2016 05 11.73363	17 06 04.23	+09 03 34.8	15.1	N	367
252P	2016 05 06.03480	17 12 25.84	+08 59 48.9	12.2	N	C36	252P	2016 05 11.73606	17 06 04.03	+09 03 35.0	15.2	N	367
252P	2016 05 06.03571	17 12 26.37	+08 59 49.9	15.1	N	C23	252P	2016 05 12.07311	17 05 41.70	+09 03 01.6	15.7	N	K 958
252P	2016 05 06.03586	17 12 25.78	+08 59 49.0	12.1	N	C36	252P	2016 05 12.08404	17 05 40.77	+09 03 00.3	15.6	N	K 958
252P	2016 05 06.03721	17 12 26.27	+08 59 50.4	14.8	N	C23	252P	2016 05 12.09554	17 05 39.99	+09 02 59.8	15.7	N	K 958
252P	2016 05 06.03871	17 12 26.16	+08 59 50.7	15.0	N	C23	252P	2016 05 12.54485	17 05 11.18	+09 02 13.9			367
252P	2016 05 06.04851	17 12 25.32	+08 59 55.5			107	252P	2016 05 12.54728	17 05 11.01	+09 02 13.7			367
252P	2016 05 06.08421	17 12 22.63	+09 00 01.2			107	252P	2016 05 12.54971	17 05 10.85	+09 02 13.2	10.7	T	367
252P	2016 05 06.39271	17 12 01.91	+09 00 55.5	15.3	N	K H47	252P	2016 05 12.65347	17 05 02.98	+09 02 04.8	9.6	T	372
252P	2016 05 06.40604	17 12 00.92	+09 00 57.2	14.9	N	K H47	252P	2016 05 12.65729	17 05 02.66	+09 02 03.9			372
252P	2016 05 06.42129	17 11 59.74	+09 00 59.6	15.4	N	K H47	252P	2016 05 12.66128	17 05 02.34	+09 02 03.5			372
252P	2016 05 07.00384	17 11 21.98	+09 02 07.3	12.2	N	C36	252P	2016 05 12.72141	17 04 57.76	+09 01 55.4			900
252P	2016 05 07.00472	17 11 21.91	+09 02 07.4	12.2	N	C36	252P	2016 05 12.72856	17 04 57.21	+09 01 54.4	9.7	T	900
252P	2016 05 07.00560	17 11 21.80	+09 02 07.3	12.0	N	C36	252P	2016 05 13.00394	17 04 39.37	+09 01 12.5	15.7	N	C23
252P	2016 05 07.00647	17 11 21.77	+09 02 07.5	12.1	N	C36	252P	2016 05 13.01069	17 04 38.93	+09 01 12.4	15.1	N	C23
252P	2016 05 07.00735	17 11 21.69	+09 02 07.9	12.0	N	C36	252P	2016 05 13.01819	17 04 38.34	+09 01 11.7	15.8	N	C23
252P	2016 05 07.00823	17 11 21.60	+09 02 07.6	12.0	N	C36	252P	2016 05 13.65791	17 03 55.12	+09 00 16.5	15.2	N	Q68
252P	2016 05 07.01698	17 11 21.51	+09 02 13.8	14.9	N	K 160	252P	2016 05 13.68304	17 03 53.20	+09 00 12.3	15.1	N	Q68
252P	2016 05 07.02105	17 11 21.20	+09 02 14.4	14.9	N	K 160	252P	2016 05 14.30551	17 03 11.94	+08 57 59.3	15.9	N	K H47
252P	2016 05 07.02511	17 11 20.91	+09 02 15.0	15.0	N	K 160	252P	2016 05 14.31393	17 03 11.33	+08 57 57.4	15.4	N	K H47
252P	2016 05 07.03405	17 11 20.10	+09 02 13.8	15.0	N	A71	252P	2016 05 14.32262	17 03 10.66	+08 57 55.9	16.0	N	K H47
252P	2016 05 07.03986	17 11 19.66	+09 02 14.6	14.9	N	A71	252P	2016 05 14.83792	17 02 37.36	+08 56 12.8	14.4	T	L71
252P	2016 05 07.04566	17 11 19.22	+09 02 15.3	15.0	N	A71	252P	2016 05 14.84299	17 02 37.01	+08 56 11.9	14.3	T	L71
252P	2016 05 07.99738	17 10 16.19	+09 03 47.7	15.4	N	A71	252P	2016 05 14.84659	17 02 36.75	+08 56 11.2	14.4	T	L71
252P	2016 05 07.99959	17 10 16.00	+09 03 47.5	15.4	N	A71	252P	2016 05 14.85021	17 02 36.47	+08 56 10.5	14.4	T	L71
252P	2016 05 08.00181	17 10 15.85	+09 03 47.2	15.6	N	A71	252P	2016 05 14.85381	17 02 36.19	+08 56 09.9	14.4	T	L71
252P	2016 05 08.03131	17 10 13.94	+09 03 49.9	14.6	N	C10	252P	2016 05 14.85741	17 02 35.94	+08 56 09.0	14.4	T	L71
252P	2016 05 08.05160	17 10 12.39	+09 03 51.3	14.6	N	C10	252P	2016 05 14.86103	17 02 35.69	+08 56 08.4	14.4	T	L71
252P	2016 05 08.38420	17 09 49.41	+09 04 20.8	15.0	N	K H47	252P	2016 05 14.86463	17 02 35.42	+08 56 07.6	14.3	T	L71
252P	2016 05 08.39410	17 09 48.65	+09 04 21.2	15.1	N	K H47	252P	2016 05 14.86823	17 02 35.12	+08 56 07.0	14.4	T	L71
252P	2016 05 08.40465	17 09 47.83	+09 04 22.0	15.5	N	K H47	252P	2016 05 14.87183	17 02 34.88	+08 56 06.5	14.4	T	L71
252P	2016 05 08.87104	17 09 18.14	+09 04 33.7	12.4	N	A98	252P	2016 05 14.87543	17 02 34.63	+08 56 05.7	14.4	T	L71
252P	2016 05 08.87264	17 09 17.99	+09 04 33.6	12.4	N	A98	252P	2016 05 14.87905	17 02 34.33	+08 56 05.2	14.4	T	L71
252P	2016 05 08.87422	17 09 17.86	+09 04 33.4	12.4	N	A98	252P	2016 05 14.88267	17 02 34.08	+08 56 04.5	14.2	T	L71
252P	2016 05 08.87476	17 09 17.88	+09 04 33.6	12.3	N	A98	252P	2016 05 14.90461	17 02 32.47	+08 56 00.0	14.4	T	L71
252P	2016 05 08.87582	17 09 17.79	+09 04 33.4	12.5	N	A98	252P	2016 05 14.90833	17 02 32.18	+08 55 59.5	14.4	T	L71

252P	2016 05 14.91219	17 02 31.90	+08 55 58.2	14.6	T	L71
252P	2016 05 14.91588	17 02 31.63	+08 55 58.0	14.4	T	L71
252P	2016 05 14.91955	17 02 31.35	+08 55 57.1	14.4	T	L71
252P	2016 05 14.92320	17 02 31.08	+08 55 56.4	14.3	T	L71
252P	2016 05 14.92689	17 02 30.82	+08 55 55.9	14.4	T	L71
252P	2016 05 14.93056	17 02 30.52	+08 55 55.1	14.4	T	L71
252P	2016 05 14.93426	17 02 30.27	+08 55 54.2	14.4	T	L71
252P	2016 05 14.93797	17 02 29.99	+08 55 53.7	14.4	T	L71
252P	2016 05 14.94169	17 02 29.72	+08 55 53.1	14.3	T	L71
252P	2016 05 15.55411	17 01 48.194	+08 53 52.53	17.0	T	F51
252P	2016 05 15.56593	17 01 47.277	+08 53 49.95	16.8	T	F51
252P	2016 05 15.58962	17 01 45.497	+08 53 44.30	16.8	T	F51
252P	2016 05 15.65060	17 01 42.35	+08 53 53.9	15.3	N	Q68
252P	2016 05 15.67910	17 01 40.21	+08 53 47.3	15.3	N	Q68
252P	2016 05 15.89896	17 01 27.21	+08 52 25.4	16.3	N	K14
252P	2016 05 15.91145	17 01 26.22	+08 52 22.3	16.1	N	K14
252P	2016 05 15.91709	17 01 25.84	+08 52 21.1	16.1	N	K14
252P	2016 05 15.94230	17 01 23.96	+08 52 13.9	16.0	N	K 958
252P	2016 05 15.95697	17 01 22.90	+08 52 10.0	15.9	N	K 958
252P	2016 05 15.96638	17 01 22.21	+08 52 07.6	16.0	N	K 958
252P	2016 05 15.97625	17 01 21.47	+08 52 05.3	16.0	N	K 958
252P	2016 05 17.17169	17 00 01.70	+08 47 04.2	16.1	N	9 G40
252P	2016 05 17.17429	17 00 01.52	+08 47 03.5	16.2	N	9 G40
252P	2016 05 17.18022	17 00 01.06	+08 47 01.7	16.1	N	9 G40
252P	2016 05 17.47162	16 59 42.98	+08 45 42.8	15.7	T	T05
252P	2016 05 17.47819	16 59 42.48	+08 45 40.9	15.7	T	T05
252P	2016 05 17.49778	16 59 41.02	+08 45 35.4	15.6	T	T05
252P	2016 05 17.52898	16 59 38.67	+08 45 26.4	15.7	T	T05
252P	2016 05 18.06051	16 59 04.41	+08 42 39.4	15.5	N	A77
252P	2016 05 18.07480	16 59 03.35	+08 42 35.0	15.6	N	A77
252P	2016 05 18.59003	16 58 30.94	+08 39 56.3	15.9	N	Q21
252P	2016 05 18.59109	16 58 30.87	+08 39 55.6	15.7	N	Q21
252P	2016 05 18.59214	16 58 30.80	+08 39 55.3	15.7	N	Q21
252P	2016 05 18.59319	16 58 30.71	+08 39 55.2	15.8	N	Q21
252P	2016 05 18.59427	16 58 30.67	+08 39 54.3	15.8	N	Q21
252P	2016 05 18.59534	16 58 30.59	+08 39 54.3	15.8	N	Q21
252P	2016 05 18.59640	16 58 30.52	+08 39 54.3	15.6	N	Q21
252P	2016 05 18.59747	16 58 30.43	+08 39 54.4	15.8	N	Q21
252P	2016 05 18.59853	16 58 30.35	+08 39 53.5	15.7	N	Q21
252P	2016 05 18.59959	16 58 30.25	+08 39 53.1	15.8	N	Q21
252P	2016 05 18.60066	16 58 30.20	+08 39 52.5	15.6	N	Q21
252P	2016 05 18.60174	16 58 30.11	+08 39 53.0	15.7	N	Q21
252P	2016 05 18.60280	16 58 30.04	+08 39 52.4	15.8	N	Q21
252P	2016 05 18.60387	16 58 30.00	+08 39 52.0	15.7	N	Q21
252P	2016 05 18.60492	16 58 29.88	+08 39 51.3	15.7	N	Q21
252P	2016 05 18.60810	16 58 29.67	+08 39 50.8	15.7	N	Q21
252P	2016 05 18.60917	16 58 29.61	+08 39 50.0	15.7	N	Q21
252P	2016 05 18.61023	16 58 29.49	+08 39 49.9	15.8	N	Q21

269P/Jedicke

269P	2016 04 09.57322	11 14 10.79	−03 17 13.0			1 Q62
269P	2016 04 09.57488	11 14 10.75	−03 17 12.5			1 Q62
269P	2016 04 09.57654	11 14 10.73	−03 17 12.3	17.8	T	1 Q62
269P	2016 04 29.36566	11 10 13.77	−02 23 07.3	18.6	T	T05
269P	2016 04 29.38157	11 10 13.73	−02 23 04.1	18.5	T	T05
269P	2016 04 29.39797	11 10 13.49	−02 23 01.9	18.4	T	T05
269P	2016 04 29.41435	11 10 13.41	−02 23 00.3	18.5	T	T05

279P/La Sagra

279P	2016 05 04.79463	23 20 55.28	−05 45 52.9			1 Q62
279P	2016 05 04.79673	23 20 55.46	−05 45 51.8			1 Q62
279P	2016 05 04.79882	23 20 55.73	−05 45 50.1	20.9	T	1 Q62

314P/Montani

314P	2016 04 04.85043	05 35 44.72	+22 43 29.0	19.2	N	K 585
314P	2016 04 04.85114	05 35 44.72	+22 43 28.9	19.2	N	K 585
314P	2016 04 04.85397	05 35 44.97	+22 43 29.0	19.4	N	K 585

318P/McNaught-Hartley

318P	2016 01 09.44069	23 49 40.47	−07 29 09.0			1 Q62
318P	2016 01 09.44233	23 49 40.60	−07 29 07.6			1 Q62
318P	2016 01 09.44397	23 49 40.73	−07 29 06.3	17.5	T	1 Q62

329P/LINEAR-Catalina

329P	2016 02 08.88735	05 02 17.40	+34 02 54.3	17.7	N	K B54
329P	2016 02 08.88815	05 02 17.42	+34 02 55.8	18.1	N	K B54
329P	2016 02 08.88893	05 02 17.44	+34 02 55.7	17.8	N	K B54

332P/Ikeya-Murakami

332P-A	2016 03 10.93190	08 48 32.23	+29 09 52.9	18.6	N	K 585
332P-C	2016 03 10.93190	08 48 41.65	+29 09 08.3	18.8	N	K 585
332P-A	2016 03 10.93261	08 48 32.24	+29 09 52.0	18.6	N	K 585
332P-A	2016 03 10.93332	08 48 32.30	+29 09 51.4	18.6	N	K 585
332P-C	2016 03 10.93439	08 48 41.70	+29 09 05.7	18.9	N	K 585
332P-A	2016 03 10.93439	08 48 32.33	+29 09 50.1	18.5	N	K 585
332P-A	2016 03 10.93510	08 48 32.31	+29 09 49.3	18.6	N	K 585
332P-A	2016 03 10.93581	08 48 32.38	+29 09 48.2	18.5	N	K 585
332P-C	2016 03 10.93652	08 48 41.76	+29 09 03.5	18.9	N	K 585
332P-A	2016 03 10.93652	08 48 32.34	+29 09 47.9	18.6	N	K 585
332P-A	2016 03 10.93723	08 48 32.36	+29 09 47.1	18.6	N	K 585
332P-A	2016 03 10.93794	08 48 32.41	+29 09 46.3	18.5	N	K 585
332P-C	2016 03 10.93794	08 48 41.81	+29 09 01.9	18.9	N	K 585
332P-A	2016 03 10.93865	08 48 32.38	+29 09 45.7	18.8	N	K 585
332P-A	2016 03 10.93936	08 48 32.38	+29 09 44.9	18.8	N	K 585
332P-A	2016 03 10.94007	08 48 32.45	+29 09 44.4	18.8	N	K 585
332P-C	2016 03 10.94078	08 48 41.86	+29 08 59.0	18.8	N	K 585
332P-A	2016 03 10.94078	08 48 32.44	+29 09 43.6	18.8	N	K 585
332P-C	2016 03 10.94149	08 48 41.87	+29 08 58.2	18.8	N	K 585
332P-A	2016 03 10.94149	08 48 32.47	+29 09 42.8	18.8	N	K 585
332P-A	2016 03 10.94220	08 48 32.46	+29 09 42.1	18.9	N	K 585
332P-H	2016 03 10.97055	08 47 46.22	+29 12 44.0	19.2	N	K 585
332P-H	2016 03 10.97130	08 47 46.31	+29 12 42.8	19.3	N	K 585
332P-H	2016 03 10.97280	08 47 46.21	+29 12 42.8	19.3	N	K 585
332P-A	2016 03 16.04349	08 51 25.38	+27 38 01.5	19.6	N	9 G40
332P-C	2016 03 16.04349	08 51 34.31	+27 37 15.3	19.5	N	9 G40
332P-C	2016 03 16.07168	08 51 35.48	+27 36 44.5			9 G40
332P-A	2016 03 16.07168	08 51 26.51	+27 37 30.5			9 G40
332P-C	2016 03 16.84434	08 52 07.92	+27 22 30.3	18.7	N	K 585
332P-A	2016 03 16.84434	08 51 59.14	+27 23 15.9	18.8	N	K 585

332P-C	2016 03 16.84528	08 52 07.94	+27 22 29.3	18.8	N	K 585	
332P-A	2016 03 16.84528	08 51 59.22	+27 23 14.8	18.5	N	K 585	
332P-C	2016 03 16.84683	08 52 08.02	+27 22 27.4	18.6	N	K 585	
332P-A	2016 03 16.84683	08 51 59.27	+27 23 13.2	18.4	N	K 585	
332P-C	2016 03 16.84789	08 52 08.06	+27 22 26.2	18.5	N	K 585	
332P-A	2016 03 16.84789	08 51 59.29	+27 23 11.9	18.3	N	K 585	
332P-C	2016 03 16.84894	08 52 08.10	+27 22 25.1	18.6	N	K 585	
332P-A	2016 03 16.84894	08 51 59.33	+27 23 10.8	18.3	N	K 585	
332P-A	2016 03 16.85003	08 51 59.35	+27 23 09.5	18.2	N	K 585	
332P-C	2016 03 16.85003	08 52 08.15	+27 22 23.7	18.6	N	K 585	
332P-A	2016 03 16.85063	08 51 59.37	+27 23 08.8	18.2	N	K 585	
332P-C	2016 03 16.85063	08 52 08.18	+27 22 23.2	18.6	N	K 585	
332P-A	2016 03 16.85170	08 51 59.42	+27 23 07.7	18.2	N	K 585	
332P-C	2016 03 16.85170	08 52 08.22	+27 22 21.7	18.8	N	K 585	
332P-A	2016 03 16.85277	08 51 59.46	+27 23 06.4	18.2	N	K 585	
332P-C	2016 03 16.85277	08 52 08.30	+27 22 20.7	18.7	N	K 585	
332P-A	2016 03 16.85383	08 51 59.50	+27 23 05.2	18.1	N	K 585	
332P-A	2016 03 16.85491	08 51 59.55	+27 23 04.3	18.2	N	K 585	
332P-A	2016 03 16.85607	08 51 59.60	+27 23 02.9	18.1	N	K 585	
332P-C	2016 03 16.85607	08 52 08.40	+27 22 16.7	18.8	N	K 585	
332P-A	2016 03 26.95131	09 01 09.47	+24 12 58.8	18.1	N	K 585	
332P-A	2016 03 26.95415	09 01 09.66	+24 12 55.0	18.4	N	K 585	
332P-A	2016 03 26.95699	09 01 09.90	+24 12 50.6	18.7	N	K 585	
332P-A	2016 03 26.95771	09 01 09.97	+24 12 51.3	18.6	N	K 585	
332P-A	2016 03 26.95912	09 01 10.03	+24 12 49.2	18.0	N	K 585	
332P-A	2016 03 27.86501	09 02 10.33	+23 55 28.1	19.5	N	K 585	
332P-C	2016 03 27.86501	09 02 18.11	+23 54 41.1	19.5	N	K 585	
332P-A	2016 03 27.86572	09 02 10.37	+23 55 27.2	19.3	N	K 585	
332P-C	2016 03 27.86572	09 02 18.16	+23 54 40.2	19.5	N	K 585	
332P-A	2016 03 27.86644	09 02 10.42	+23 55 26.4	19.3	N	K 585	
332P-C	2016 03 27.86644	09 02 18.24	+23 54 39.1	19.5	N	K 585	
332P-A	2016 03 27.86715	09 02 10.45	+23 55 25.6	19.5	N	K 585	
332P-C	2016 03 27.86715	09 02 18.28	+23 54 38.4	19.6	N	K 585	
332P-A	2016 03 27.86787	09 02 10.50	+23 55 24.7	19.5	N	K 585	
332P-C	2016 03 27.86787	09 02 18.31	+23 54 38.0	19.5	N	K 585	
332P-C	2016 03 27.86894	09 02 18.42	+23 54 36.6	19.6	N	K 585	
332P-A	2016 03 27.86894	09 02 10.57	+23 55 23.3	19.1	N	K 585	
332P-A	2016 03 27.86966	09 02 10.61	+23 55 22.5	19.1	N	K 585	
332P-C	2016 03 27.86966	09 02 18.46	+23 54 36.0	19.6	N	K 585	
332P-A	2016 03 27.87037	09 02 10.67	+23 55 21.8	18.9	N	K 585	
332P-C	2016 03 27.87037	09 02 18.51	+23 54 35.2	19.6	N	K 585	
332P-A	2016 03 27.87109	09 02 10.71	+23 55 20.9	19.0	N	K 585	
332P-C	2016 03 27.87109	09 02 18.56	+23 54 34.6	19.6	N	K 585	
332P-A	2016 03 27.87180	09 02 10.77	+23 55 20.4	19.2	N	K 585	
332P-C	2016 03 27.87180	09 02 18.65	+23 54 34.7	19.6	N	K 585	
332P-C	2016 03 27.87252	09 02 18.65	+23 54 32.4	19.5	N	K 585	
332P-A	2016 03 27.87252	09 02 10.79	+23 55 19.3	19.1	N	K 585	
332P-A	2016 03 27.87324	09 02 10.83	+23 55 18.5	19.1	N	K 585	
332P-A	2016 03 27.87397	09 02 10.89	+23 55 18.0	18.7	N	K 585	
332P-A	2016 03 29.94985	09 04 34.89	+23 15 28.3	19.9	N	9 G40	
332P-H	2016 03 29.94985	09 03 57.74	+23 19 08.5	20.9	N	9 G40	
332P-C	2016 03 29.94985	09 04 42.43	+23 14 41.8	19.8	N	9 G40	
332P-H	2016 03 29.97029	09 03 58.95	+23 18 45.2			9 G40	
332P-C	2016 03 29.97029	09 04 43.80	+23 14 18.2			9 G40	
332P-A	2016 03 29.97029	09 04 36.19	+23 15 05.1			9 G40	
332P-A	2016 04 30.93441	09 54 20.35	+12 59 37.2	20.5	N	9 G40	
332P-C	2016 04 30.93441	09 54 25.73	+12 58 51.3	20.2	N	9 G40	
332P-C	2016 04 30.97064	09 54 29.55	+12 58 09.9			9 G40	
332P-A	2016 04 30.97064	09 54 24.09	+12 58 55.3			9 G40	
332P-C	2016 05 03.19132	09 58 32.20	+12 16 13.4			5 U69	
332P-A	2016 05 03.19132	09 58 26.87	+12 17 02.0			5 U69	
332P-A	2016 05 03.19397	09 58 27.20	+12 16 58.6	19.3	T	5 U69	
332P-C	2016 05 03.19397	09 58 32.47	+12 16 10.4	19.0	T	5 U69	
332P-A	2016 05 05.93436	10 03 30.38	+11 25 20.2	18.9	T	K 215	
332P-C	2016 05 05.93436	10 03 35.51	+11 24 36.5	19.2	T	K 215	
332P-A	2016 05 05.93565	10 03 30.44	+11 25 18.8	19.2	T	K 215	
332P-C	2016 05 05.93565	10 03 35.64	+11 24 36.1	20.0	T	K 215	
332P-A	2016 05 05.93694	10 03 30.49	+11 25 17.7	19.2	T	K 215	

333P/LINEAR

333P	2016 01 18.60311	10 59 59.61	−48 22 06.5			1 Q62	
333P	2016 01 18.60499	10 59 58.95	−48 22 08.3			1 Q62	
333P	2016 01 18.60689	10 59 58.33	−48 22 09.0	16.7	T	1 Q62	
333P	2016 04 04.79784	03 24 30.09	+32 48 35.7	14.9	N	585	
333P	2016 04 04.79855	03 24 30.07	+32 48 36.6	14.9	N	585	
333P	2016 04 04.79926	03 24 30.04	+32 48 37.2	14.9	N	585	
333P	2016 04 04.79997	03 24 30.01	+32 48 38.1	14.8	N	585	
333P	2016 04 04.80068	03 24 29.96	+32 48 38.9	14.9	N	585	
333P	2016 04 04.80139	03 24 29.94	+32 48 39.7	14.9	N	585	
333P	2016 04 04.80209	03 24 29.90	+32 48 40.5	14.9	N	585	
333P	2016 04 04.80280	03 24 29.87	+32 48 41.4	15.1	N	585	
333P	2016 04 04.80351	03 24 29.83	+32 48 42.1	14.9	N	585	
333P	2016 04 04.80422	03 24 29.80	+32 48 42.8	14.9	N	585	
333P	2016 04 04.80493	03 24 29.75	+32 48 43.7	14.9	N	585	
333P	2016 04 04.80563	03 24 29.73	+32 48 44.5	14.9	N	585	
333P	2016 04 04.80634	03 24 29.69	+32 48 45.2	14.9	N	585	
333P	2016 04 04.80705	03 24 29.66	+32 48 46.2	14.8	N	585	
333P	2016 04 04.80776	03 24 29.63	+32 48 47.0	15.0	N	585	
333P	2016 04 04.80847	03 24 29.60	+32 48 47.8	14.8	N	585	
333P	2016 04 04.80918	03 24 29.56	+32 48 48.5	14.9	N	585	
333P	2016 04 04.80988	03 24 29.52	+32 48 49.2	14.8	N	585	
333P	2016 04 04.81059	03 24 29.49	+32 48 50.0	14.9	N	585	
333P	2016 04 25.82171	03 11 11.26	+38 19 18.5	15.3	N	A71	
333P	2016 04 25.82428	03 11 11.22	+38 19 20.5	15.4	N	A71	
333P	2016 04 25.82556	03 11 11.14	+38 19 21.6	15.4	N	A71	

334P/NEAT

334P	2016 04 27.89903	07 43 23.01	+31 28 08.9	19.9	T	K 215
334P	2016 04 27.90096	07 43 23.06	+31 28 09.0	20.1	T	K 215
334P	2016 04 27.90289	07 43 23.06	+31 28 08.4	19.8	T	K 215

335P/Gibbs

335P	2016 04 27.24119	13 30 21.89	−21 41 03.1	19.5	T	G45
335P	2016 04 27.24571	13 30 21.60	−21 41 02.7	20.0	T	G45
335P	2016 04 27.25012	13 30 21.37	−21 41 01.2	20.4	T	G45
335P	2016 04 27.25450	13 30 21.15	−21 40 59.3	19.8	T	G45
335P	2016 04 27.25912	13 30 20.89	−21 40 57.5	19.8	T	G45

335P	2016 04 27.27725	13 30 19.97	−21 40 52.2	691
335P	2016 04 27.28938	13 30 19.34	−21 40 48.8	691
335P	2016 04 27.30149	13 30 18.72	−21 40 45.8	691

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

673 Table Mountain Observatory, Wrightwood. Observer W. M. Owen Jr. 0.61-m $f/16$ reflector + CCD.

G36 Calar Alto-CASADO. Observers S. Hellmich, S. Mottola. 1.23-m $f/8$ reflector + CCD.

T05 ATLAS-HKO, Haleakala. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry, A. Sherstyuk. Measurers L. Denneau, A. Heinze, J. Tonry. 0.5-m $f/2.0$ Schmidt + CCD.

Object	Date UT	α_{2000}	δ_{2000}	Mag.	N Obs.
Jupiter VI	2016 04 21.41642	10 59 36.47	+07 43 48.4	15.1 w	T05
Jupiter VI	2016 04 21.42818	10 59 36.28	+07 43 49.8	15.1 w	T05
Jupiter VI	2016 04 21.44012	10 59 36.09	+07 43 51.6	15.1 w	T05
Jupiter VI	2016 04 21.45761	10 59 35.78	+07 43 53.9	15.1 w	T05
Jupiter VI	2016 04 22.40532	10 59 21.00	+07 45 56.4	15.2 w	T05
Jupiter VI	2016 04 22.42713	10 59 20.66	+07 45 59.3	15.2 w	T05
Jupiter VI	2016 04 22.44981	10 59 20.32	+07 46 02.2	15.2 w	T05
Jupiter VI	2016 04 22.47153	10 59 19.98	+07 46 04.8	15.2 w	T05
Jupiter VI	2016 04 27.37054	10 58 15.00	+07 55 31.7	15.2 w	T05
Jupiter VI	2016 04 27.38650	10 58 14.80	+07 55 33.1	15.2 w	T05
Jupiter VI	2016 04 27.40250	10 58 14.61	+07 55 35.2	15.2 w	T05
Jupiter VI	2016 04 27.41833	10 58 14.43	+07 55 36.7	15.2 w	T05
Jupiter VI	2016 04 28.36224	10 58 04.20	+07 57 12.6	15.3 w	T05
Jupiter VI	2016 04 28.37980	10 58 04.00	+07 57 14.3	15.3 w	T05
Jupiter VI	2016 04 28.39828	10 58 03.79	+07 57 16.2	15.3 w	T05
Jupiter VI	2016 04 28.41710	10 58 03.59	+07 57 17.2	15.4 w	T05
Jupiter VI	2016 04 30.85032	10 57 40.68	+08 01 03.5	15.1 R	G36
Jupiter VI	2016 04 30.89398	10 57 40.28	+08 01 07.4	15.2 R	G36
Jupiter VI	2016 04 30.97968	10 57 39.52	+08 01 14.7	15.0 R	G36
Jupiter VI	2016 05 01.91913	10 57 32.09	+08 02 33.4	15.1 R	G36
Jupiter VI	2016 05 01.98638	10 57 31.56	+08 02 38.8	15.1 R	G36
Jupiter VI	2016 05 02.84278	10 57 25.52	+08 03 46.2	15.2 R	G36
Jupiter VI	2016 05 02.88760	10 57 25.19	+08 03 49.6	15.1 R	G36
Jupiter VI	2016 05 02.94458	10 57 24.78	+08 03 53.9	15.1 R	G36
Jupiter VI	2016 05 03.86730	10 57 19.01	+08 05 01.8	15.0 R	G36
Jupiter VI	2016 05 03.92373	10 57 18.64	+08 05 05.8	15.0 R	G36
Jupiter VI	2016 05 03.99115	10 57 18.23	+08 05 10.5	15.1 R	G36
Jupiter VII	2016 05 01.84095	11 02 24.25	+08 05 37.8	16.5 R	G36
Jupiter VII	2016 05 01.92218	11 02 23.99	+08 05 36.4	16.5 R	G36
Jupiter VII	2016 05 01.98943	11 02 23.78	+08 05 35.1	16.5 R	G36
Jupiter VII	2016 05 02.84587	11 02 21.83	+08 05 18.2	16.1 R	G36
Jupiter VII	2016 05 02.91576	11 02 21.64	+08 05 16.7	16.1 R	G36
Jupiter VII	2016 05 02.97511	11 02 21.49	+08 05 15.2	16.1 R	G36
Jupiter VII	2016 05 03.84240	11 02 19.99	+08 04 54.2	16.4 R	G36
Jupiter VII	2016 05 03.92676	11 02 19.81	+08 04 52.0	16.4 R	G36
Jupiter VII	2016 05 03.99419	11 02 19.68	+08 04 50.2	16.3 R	G36
Jupiter VIII	2016 04 03.84747	11 16 38.74	+07 29 14.5	16.7 R	G36
Jupiter VIII	2016 04 03.89741	11 16 37.50	+07 29 20.7	16.8 R	G36
Jupiter VIII	2016 04 07.83211	11 15 06.14	+07 36 58.7	17.0 R	G36
Jupiter VIII	2016 04 07.93691	11 15 03.75	+07 37 10.2	17.0 R	G36
Jupiter VIII	2016 04 08.08122	11 15 00.46	+07 37 25.7	17.0 R	G36
Jupiter VIII	2016 04 08.93825	11 14 41.72	+07 38 57.1	17.0 R	G36
Jupiter VIII	2016 04 09.02386	11 14 39.81	+07 39 06.1	17.0 R	G36
Jupiter VIII	2016 04 09.10191	11 14 38.07	+07 39 14.2	17.0 R	G36
Jupiter VIII	2016 04 09.83247	11 14 22.53	+07 40 29.5	17.1 R	G36
Jupiter VIII	2016 04 09.93722	11 14 20.24	+07 40 40.1	17.2 R	G36
Jupiter VIII	2016 04 10.05766	11 14 17.62	+07 40 52.1	17.2 R	G36
Jupiter VIII	2016 04 10.95014	11 13 58.98	+07 42 20.5	17.1 R	G36
Jupiter VIII	2016 04 11.01936	11 13 57.51	+07 42 27.1	17.1 R	G36
Jupiter VIII	2016 04 11.09752	11 13 55.86	+07 42 34.6	17.1 R	G36
Jupiter VIII	2016 04 11.83342	11 13 40.98	+07 43 44.8	17.1 R	G36
Jupiter VIII	2016 04 11.98132	11 13 37.90	+07 43 58.5	17.1 R	G36
Jupiter VIII	2016 04 12.05453	11 13 36.39	+07 44 05.3	17.1 R	G36
Jupiter VIII	2016 04 12.84927	11 13 20.69	+07 45 17.7	17.2 R	G36
Jupiter VIII	2016 04 12.89016	11 13 19.86	+07 45 21.4	17.2 R	G36
Jupiter VIII	2016 04 13.02688	11 13 17.10	+07 45 33.2	17.1 R	G36
Jupiter VIII	2016 04 13.82928	11 13 01.67	+07 46 43.6	17.2 R	G36
Jupiter VIII	2016 04 13.96495	11 12 59.00	+07 46 55.1	17.2 R	G36
Jupiter VIII	2016 04 14.09260	11 12 56.51	+07 47 05.9	17.2 R	G36
Jupiter VIII	2016 04 14.82247	11 12 42.95	+07 48 06.6	17.3 R	G36
Jupiter VIII	2016 04 14.90568	11 12 41.35	+07 48 13.4	17.3 R	G36
Jupiter VIII	2016 04 15.02922	11 12 38.99	+07 48 23.3	17.3 R	G36
Jupiter VIII	2016 04 28.93996	11 09 20.45	+08 00 18.2	17.2 R	G36
Jupiter VIII	2016 04 28.96772	11 09 20.16	+08 00 18.8	17.2 R	G36
Jupiter VIII	2016 04 28.99915	11 09 19.84	+08 00 19.5	17.2 R	G36
Jupiter VIII	2016 04 30.87317	11 09 02.55	+08 00 51.7	17.3 R	G36
Jupiter VIII	2016 04 30.92516	11 09 02.07	+08 00 52.4	17.3 R	G36
Jupiter VIII	2016 04 30.98685	11 09 01.51	+08 00 53.1	17.3 R	G36
Jupiter VIII	2016 05 01.95848	11 08 53.50	+08 01 03.4	17.3 R	G36
Jupiter VIII	2016 05 02.02456	11 08 52.95	+08 01 03.8	17.3 R	G36
Jupiter VIII	2016 05 02.87035	11 08 46.59	+08 01 09.3	17.6 R	G36
Jupiter VIII	2016 05 02.92345	11 08 46.17	+08 01 09.6	17.6 R	G36
Jupiter VIII	2016 05 02.98283	11 08 45.71	+08 01 09.7	17.6 R	G36
Jupiter VIII	2016 05 03.85008	11 08 39.73	+08 01 11.6	17.1 R	G36
Jupiter VIII	2016 05 03.90315	11 08 39.35	+08 01 11.6	17.0 R	G36
Jupiter VIII	2016 05 03.96321	11 08 38.92	+08 01 11.5	17.0 R	G36
Jupiter IX	2016 04 11.82954	11 06 28.04	+07 13 10.8	18.2 R	G36
Jupiter IX	2016 04 11.95905	11 06 25.23	+07 13 24.1	18.2 R	G36
Jupiter IX	2016 04 12.03290	11 06 23.64	+07 13 31.5	18.2 R	G36
Jupiter IX	2016 04 12.82560	11 06 07.21	+07 14 50.9	18.5 R	G36
Jupiter IX	2016 04 12.88245	11 06 06.03	+07 14 56.5	18.3 R	G36
Jupiter IX	2016 04 12.94790	11 06 04.63	+07 15 03.0	18.3 R	G36
Jupiter IX	2016 04 13.82157	11 05 46.94	+07 16 27.6	18.3 R	G36
Jupiter IX	2016 04 13.93610	11 05 44.59	+07 16 38.5	18.4 R	G36
Jupiter IX	2016 04 14.02437	11 05 42.75	+07 16 46.7	18.3 R	G36
Jupiter XI	2016 04 08.87920	11 10 22.06	+06 40 22.9	18.0 R	G36
Jupiter XI	2016 04 08.98609	11 10 19.60	+06 40 38.8	18.0 R	G36
Jupiter XI	2016 04 09.09807	11 10 17.02	+06 40 55.3	18.1 R	G36
Jupiter XI	2016 04 10.91990	11 09 37.17	+06 45 18.2	18.2 R	G36

Jupiter XI	2016 04 10.98545	11 09 35.72	+06 45 27.5	18.3	R	G36
Jupiter XI	2016 04 11.09365	11 09 33.36	+06 45 42.7	18.0	R	G36
Jupiter XI	2016 04 12.82944	11 08 57.22	+06 49 41.0	18.1	R	G36
Jupiter XI	2016 04 12.88629	11 08 56.03	+06 49 48.6	18.1	R	G36
Jupiter XI	2016 04 12.97696	11 08 54.14	+06 50 00.8	17.9	R	G36
Jupiter XI	2016 04 13.81342	11 08 37.39	+06 51 51.1	18.1	R	G36
Jupiter XI	2016 04 13.90219	11 08 35.57	+06 52 02.7	18.3	R	G36
Jupiter XI	2016 04 14.02822	11 08 33.01	+06 52 19.0	18.2	R	G36
Jupiter XI	2016 04 28.91693	11 04 44.51	+07 17 09.2	18.0	R	G36
Jupiter XI	2016 04 28.93609	11 04 44.30	+07 17 10.5	18.0	R	G36
Jupiter XI	2016 04 28.99529	11 04 43.64	+07 17 14.8	18.0	R	G36
Jupiter XI	2016 04 30.82409	11 04 25.29	+07 19 14.1	18.1	R	G36
Jupiter XI	2016 04 30.89729	11 04 24.56	+07 19 18.7	18.2	R	G36
Jupiter XI	2016 04 30.98299	11 04 23.70	+07 19 23.8	18.3	R	G36
Jupiter XI	2016 05 01.82797	11 04 16.09	+07 20 13.8	18.1	R	G36
Jupiter XI	2016 05 01.87275	11 04 15.68	+07 20 16.3	18.1	R	G36
Jupiter XI	2016 05 01.95460	11 04 14.91	+07 20 21.0	18.2	R	G36
Jupiter XI	2016 05 02.89448	11 04 07.01	+07 21 12.4	18.3	R	G36
Jupiter XI	2016 05 02.95146	11 04 06.52	+07 21 15.4	18.2	R	G36
Jupiter XI	2016 05 02.97896	11 04 06.28	+07 21 16.8	18.1	R	G36
Jupiter XI	2016 05 03.82941	11 03 59.74	+07 21 59.9	18.2	R	G36
Jupiter XI	2016 05 03.89929	11 03 59.17	+07 22 03.3	18.3	R	G36
Jupiter XI	2016 05 03.95913	11 03 58.69	+07 22 06.2	18.2	R	G36
Jupiter XII	2016 04 03.82230	11 09 52.71	+06 11 54.1	18.9	R	G36
Jupiter XII	2016 04 03.89355	11 09 50.88	+06 12 03.1	18.7	R	G36
Jupiter XII	2016 04 03.92220	11 09 50.14	+06 12 06.7	19.1	R	G36
Jupiter XII	2016 04 07.82823	11 08 14.39	+06 19 57.7	18.8	R	G36
Jupiter XII	2016 04 07.93303	11 08 11.86	+06 20 09.6	18.8	R	G36
Jupiter XII	2016 04 08.04010	11 08 09.29	+06 20 22.0	18.8	R	G36
Jupiter XII	2016 04 09.82858	11 07 28.28	+06 23 41.4	18.8	R	G36
Jupiter XII	2016 04 09.96239	11 07 25.18	+06 23 56.0	18.8	R	G36
Jupiter XII	2016 04 10.03609	11 07 23.49	+06 24 03.8	18.8	R	G36
Jupiter XII	2016 04 28.93225	11 02 05.27	+06 47 59.7	19.0	R	G36
Jupiter XII	2016 04 28.96384	11 02 04.92	+06 48 01.1	19.0	R	G36
Saturn IX	2016 05 03.390069	16 56 12.762	−20 49 29.16			1 673
Saturn IX	2016 05 03.391827	16 56 12.733	−20 49 29.15			1 673

OBSERVATIONS OF MINOR PLANETS

The summary lists, for each observatory code, provide a count of the total number of observations, of the number of objects and of the number of discoveries followed by an asterisk, together with the total range of dates covered by the observations.

006 Fabra Observatory, Barcelona

J. M. Codina, Fabra Observatory, E-08022 Barcelona, Spain [fabra@fajnm1.am.ub.es]
Observers J. Nuñez, A. Bernal, J. M. Codina, N. Torras
Measurers A. Bernal, J. Nuñez
0.38-m $f/11$ Mailhat astrograph
UCAC-4

(7350), 5, 1, 0; (35396), 3, 1, 0; (86667), 7, 2, 2; (137170), 8, 2, 12; (154555), 7, 2, 2; *[30, 5, 0∗, 2016/04/30–2016/05/14]*

012 Uccle

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

(465701), 3, 1, 0; *[3, 1, 0∗, 2002/02/16]*

033 Karl Schwarzschild Observatory, Tautenburg

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

2016 JS_{24}, 12, 1, 0; 2016 JT_{24}, 11, 1, 0; 2016 JV_{24}, 5, 1, 0; 2016 JX_{24}, 14, 2, 1; 2016 JR_{28}, 9, 1, 0; 2016 JU_{28}, 4, 1, 0; 2016 JW_{28}, 7, 1, 0; 2016 JX_{28}, 6, 1, 0; 2016 JY_{28}, 17, 1, 0; 2016 JZ_{28}, 11, 1, 0; 2016 JA_{29}, 11, 1, 0; *[107, 11, 0∗, 2016/05/10–2016/05/12]*

069 Baldone

I. Eglitis, Institute of Astronomy University of Latvia, Boulevard Rainis 19, Riga, Latvia [ilgmars@latnet.lv]
Observer I. Eglitis
Measurer K. Černis
0.80-m $f/3.0$ Schmidt + CCD
NOMAD

(7263), 3, 1, 0; (10148), 4, 1, 0; (13313), 3, 1, 0; (16456), 2, 1, 0; (25609), 3, 1, 0; (27536), 4, 1, 0; (27763), 3, 1, 0; (35397), 3, 1, 0; (39276), 2, 1, 0; (40138), 3, 1, 0; (49337), 3, 1, 0; (70008), 2, 1, 0; (73741), 3, 1, 0; (76366), 2, 1, 0; (79584), 3, 1, 0; (98582), 2, 1, 0; (154125), 2, 1, 0; (158613), 2, 1, 0; (205354), 3, 1, 0; (206544), 3, 1, 0; (236296), 3, 1, 0; (306368), 5, 1, 0; (308436), 3, 1, 0; (324265), 3, 1, 0; (352135), 6, 1, 0; (355977), 3, 1, 0; (401412), 2, 1, 0; (411923), 2, 1, 0; (451725), 5, 1, 0; *[87, 29, 0∗, 2015/10/12–2015/10/13]*

073 Bucharest

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

(35396), 4, 1, 0; (388945), 5, 1, 0; *[9, 2, 0∗, 2016/04/15–2016/04/28]*

089 Nikolaev

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

(20826), 6, 1, 0; (162510), 8, 1, 0; (450160), 6, 1, 0; *[20, 3, 0∗, 2016/03/09–2016/04/11]*

104 San Marcello Pistoiese

L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]
Observers P. Bacci, M. Maestripieri. M. Michela, L. Nerli, L. Mazzei, M. Maestripieri, M. Michela, E. Fermi
Measurers P. Bacci, L. Tesi, G. Fagioli
0.60-m $f/4$ reflector + CCD
UCAC-3

2002 CX_{58}, 3, 1, 0; 2008 CT_{190}, 2, 1, 0; 2016 FU_{13}, 2, 1, 0; 2016 HO_6, 3, 1, 0; 2016 HP_6, 4, 1, 0; 2016 HS_6, 3, 1, 0; 2016 HD_{19}, 3, 1, 0; 2016 JE_6, 3, 1, 0; 2016 JX_{11}, 3, 1, 0; 2016 JP_{15}, 3, 1,

0; 2016 JY_{16}, 3, 1, 0; 2016 JJ_{17}, 3, 1, 0; 2016 JM_{17}, 3, 1, 0; 2016 JN_{17}, 3, 1, 0; (41600), 3, 1, 0; (64727), 3, 1, 0; *[47, 16, 0∗, 2016/04/27–2016/05/07]*

106 Črni Vrh
H. Mikuž, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]
Observers J. Zakrajsek, J. Vales
Measurer H. Mikuž
0.6-m f/3.3 Deltagraph + CCD
UCAC-2
2015 BB_{474}, 4, 1, 0; 2016 BV_{80}, 4, 1, 0; 2016 GZ_{145}, 4, 1, 0; 2016 HD_4, 4, 1, 0; 2016 JT_{14}, 4, 1, 0; (241915), 4, 1, 0; *[24, 6, 0∗, 2007/03/16–2016/05/09]*

107 Cavezzo
M. Facchini, via C. Battisti 48, I-41032 Carpi (MO), Italy [m.facchini@iol.it]
Observers R. Bonomi, P. Negrelli, M. Facchini
0.4-m f/5.5 reflector + CCD
USNO-B1.0
(4350), 2, 1, 0; (8359), 2, 1, 0; (10357), 2, 1, 0; *[6, 3, 0∗, 2016/04/19]*

113 Volkssternwarte Drebach, Schoenbrunn
G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany [g.l@kleinplanetenseite.de]
Observer A. Knöfel
0.5-m f/4.6 reflector + CCD
UCAC-4
2002 CX_{58}, 3, 1, 0; 2002 JA_9, 3, 1, 0; 2003 KO_2, 3, 1, 0; 2008 YD_{66}, 6, 2, 30; 2009 HD_{82}, 3, 1, 0; 2009 UB_{143}, 3, 1, 0; 2011 OP_{24}, 3, 1, 0; 2012 JR_{17}, 3, 1, 0; 2012 MR_{11}, 3, 1, 0; 2013 HM_{18}, 3, 1, 0; 2014 KZ_{44}, 3, 1, 0; 2014 RT_{12}, 3, 1, 0; 2014 UT_{115}, 3, 1, 0; 2015 BV_{278}, 2, 1, 0; 2015 XB_{379}, 9, 3, 3; 2016 BU_{13}, 5, 2, 1; 2016 GE_2, 6, 2, 1; 2016 GN_{221}, 3, 1, 0; 2016 HL, 6, 2, 4; 2016 HM, 3, 1, 0; 2016 HP_3, 3, 1, 0; 2016 HD_{19}, 3, 1, 0; 2016 JW_5, 6, 2, 1; 2016 JX_{11}, 3, 1, 0; 2016 JA_{12}, 2, 1, 0; 2016 JP_{17}, 7, 2, 1; 2016 JR_{17}, 3, 1, 0; 2016 JC_{18}, 3, 1, 0; 2016 JD_{18}, 3, 1, 0; 2016 JE_{18}, 3, 1, 0; 2016 JP_{24}, 2, 1, 0; 2016 JX_{24}, 2, 1, 0; (851), 3, 1, 0; (2929), 2, 1, 0; (6304), 3, 1, 0; (7152), 2, 1, 0; (7485), 3, 1, 0; (10632), 2, 1, 0; (10814), 3, 1, 0; (13947), 3, 1, 0; (15803), 3, 1, 0; (16767), 3, 1, 0; (21510), 3, 1, 0; (21641), 3, 1, 0; (22009), 3, 1, 0; (27485), 3, 1, 0; (29688), 2, 1, 0; (33644), 2, 1, 0; (34055), 3, 1, 0; (36271), 3, 1, 0; (38609), 3, 1, 0; (39631), 3, 1, 0; (40419), 3, 1, 0; (46342), 3, 1, 0; (47002), 2, 1, 0; (50979), 2, 1, 0; (52261), 3, 1, 0; (58233), 2, 1, 0; (66820), 3, 1, 0; (67398), 3, 1, 0; (67953), 3, 1, 0; (73705), 3, 1, 0; (75059), 3, 1, 0; (77885), 3, 1, 0; (78372), 3, 1, 0; (89386), 3, 1, 0; (93916), 3, 1, 0; (101744), 2, 1, 0; (101753), 3, 1, 0; (102301), 2, 1, 0; (102576), 3, 1, 0; (104589), 3, 1, 0; (113813), 3, 1, 0; (114114), 3, 1, 0; (114136), 3, 1, 0; (121511), 3, 1, 0; (134858), 2, 1, 0; (135428), 3, 1, 0; (138665), 3, 1, 0; (145256), 2, 1, 0; (155449), 2, 1, 0; (156382), 2, 1, 0; (156994), 3, 1, 0; (171752), 3, 1, 0; (173092), 2, 1, 0; (176170), 3, 1, 0; (181382), 3, 1, 0; (187030), 3, 1, 0; (195330), 2, 1, 0; (225992), 3, 1, 0; (229019), 3, 1, 0; (230757), 3, 1, 0; (235496), 2, 1, 0; (236034), 2, 1, 0; (237333), 3, 1, 0; (244978), 3, 1, 0; (275247), 2, 1, 0; (278409), 3, 1, 0; (282160), 3, 1, 0; (286087), 3, 1, 0; (340740), 3, 1, 0; (373186), 2, 1, 0; (465992), 3, 1, 0; (466877), 3, 1, 0; *[312, 104, 0∗, 2016/04/09–2016/05/10]*

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
2014 TR_{21}, 4, 1, 0; 2016 JH_{30}, 5, 1, 0; (466874), 5, 1, 0; *[14, 3, 0∗, 2009/12/10–2012/07/10]*

118 Modra
Š. Gajdoš, FMFI UK, P.O. Box 4, SK-90001 Modra, Slovakia [ago@fmph.uniba.sk]
Observers J. Világi, Š. Gajdoš
0.6-m f/5.5 reflector + CCD
UCAC-4, UCAC-3
2016 GX_{67}, 2, 1, 0; 2016 GT_{92}, 5, 2, 2; 2016 GJ_{93}, 9, 3, 2; 2016 HL_2, 3, 1, 0; 2016 KA, 2, 1, 0; (5754), 14, 4, 17; (6093), 3, 1, 0; (6550), 2, 1, 0; (11639), 3, 1, 0; (12041), 7, 2, 1; (12543), 3, 1, 0; (13477), 6, 2, 1; (15826), 3, 1, 0; (31643), 3, 1, 0; (43575), 2, 1, 0; (51906), 6, 2, 1; (73601), 3, 1, 0; (75219), 3, 1, 0; (81314), 3, 1, 0; (110858), 2, 1, 0; (119183), 3, 1, 0; (133326), 3, 1, 0; (141354), 3, 1, 0; (156382), 3, 1, 0; (157026), 2, 1, 0; (178236), 2, 1, 0; (282570), 3, 1, 0; (318599), 3, 1, 0; (331176), 4, 2, 1; (332084), 3, 1, 0; (378303), 2, 1, 0; (388945), 4, 1, 0; (424927), 2, 1, 0; *[121, 33, 0∗, 2016/04/26–2016/05/16]*

122 Pises Observatory
J.-M. Lopez, 5 Rue Meyrueis, F-34000 Montpellier, France [jean.m.lopez2@wanadoo.fr]
0.50-m f/4.4 reflector + CCD
USNO-A2.0
(152942), 3, 1, 0; *[3, 1, 0∗, 2016/04/28]*

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
2006 HV_5, 3, 1, 0; (50043), 2, 1, 0; (53789), 4, 1, 0; (98440), 2, 1, 0; (101795), 4, 1, 0; (450160), 3, 1, 0; (465616), 4, 1, 0; (466508), 2, 1, 0; *[24, 8, 0∗, 2016/04/25]*

151 Eschenberg Observatory, Winterthur
M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland [griesser@spectraweb.ch]
0.60-m f/3.8 astrograph + CCD
URAT-1, UCAC-4
2016 HL, 7, 1, 0; 2016 JX_{11}, 4, 1, 0; (35396), 4, 1, 0; (86667), 7, 1, 0; *[22, 4, 0∗, 2016/05/05]*

152 Moletai Astronomical Observatory
K. Černis, Institute of Theoretical Physics and Astronomy, Vilnius University, Gostauto 12, LT-2000 Vilnius, Lithuania [Kazimieras.Černis@tfai.vu.lt]
Observer K. Černis
0.35-m f/3.5 reflector + CCD
UCAC-2
2015 GG_{28}, 2, 1, 0; 2016 GR_{204}, 3, 1, 0; (4700), 3, 1, 0; (10072), 3, 1, 0; (18065), 2, 1, 0; (19365), 3, 1, 0; (25928), 3, 1, 0; (26792), 3, 1, 0; (30215), 3, 1, 0; (81461), 3, 1, 0; (83594), 3, 1, 0; (83967), 5, 2, 1; (84463), 3, 1, 0; (90451), 1, 1, 0; (98328), 5, 2, 1; (99642), 1, 1, 0; (100125), 2, 1, 0; (102212), 2, 1, 0; (102306), 6, 2, 1; (102506), 6, 2, 1; (103827), 6, 1, 0; (105653), 5, 2, 1; (105858), 8, 2, 1; (106201), 9, 2, 1; (107246), 9, 2, 1; (107458), 5, 2, 1; (110744), 4, 2, 1; (111825), 2, 1, 0; (112654), 3, 1, 0; (113239), 5, 2, 1; (113290), 3, 1, 0; (117910), 1, 1, 0; (118851), 3, 1, 0; (132482), 6, 2, 1; (133038), 1, 1, 0; (133047), 6, 2, 1; (135566), 3, 1, 0; (135798), 2, 1, 0; (136402), 3, 1, 0; (136880), 3, 1, 0; (138397), 5, 2, 1; (138507), 1, 1, 0; (139571), 2, 1, 0; (139650), 3, 1, 0; (139697), 6, 2, 1; (140696), 8, 2, 1; (140750), 2, 1, 0; (141566), 3, 1, 0; (141923), 6, 2, 1; (142532), 3, 1, 0; (466914), 7, 1, 0; *[195, 51, 0∗, 2005/03/10–2016/01/15]*

160 Castelmartini
E. Prosperi, Via Bartolini 127, I-51030 Castelmartini (PT), Italy [e.prosperi@alice.it]
Observers E. Prosperi, S. Prosperi, M. Jaeger, W. Vollmann
0.35-m f/10 Schmidt-Cassegrain + CCD
UCAC-4
2003 KO_2, 9, 3, 2; 2015 XB_{379}, 6, 2, 7; 2016 FE_1, 3, 1, 0; 2016 FY_3, 3, 1, 0; 2016 GS_2, 6, 2, 1; (1685), 6, 2, 10; (1866), 12, 4, 31; (1917), 3, 1, 0; (1980), 2, 1, 0; (3103), 9, 3, 17; (3122), 3, 1, 0; (4587), 15, 5, 31; (5587), 3, 1, 0; (5693), 6, 2, 7; (5863), 15, 5, 31; (6611), 9, 3, 11; (7350), 9, 3, 17; (8013), 11, 4, 17; (8373), 3, 1, 0; (9400), 9, 3, 20; (24200), 3, 1, 0; (29540), 3, 1, 0; (31221), 3, 1, 0; (35396), 6, 2, 1; (36183), 9, 3, 17; (38086), 3, 1, 0; (53789), 6, 2, 7; (64409), 3, 1, 0; (68216), 15, 5, 31; (83940), 3, 1, 0; (85628), 12, 4, 31; (85953), 3, 1, 0; (86666), 12, 4, 31; (86667), 6, 2, 1; (101795), 9, 3, 24; (115916), 11, 4, 31; (129048), 3, 1, 0; (138325), 3, 1, 0; (138847), 9, 3, 17; (141354), 9, 3, 17; (144332), 6, 2, 7; (152671), 6, 2, 1; (154807), 5, 2, 7; (162463), 6, 2, 1; (162980),

3, 1, 0; (163243), 11, 4, 31; (185851), 6, 2, 7; (337866), 6, 2, 14; (347449), 11, 4, 31; (363599), 3, 1, 0; (388945), 6, 2, 7; (411201), 12, 4, 20; (450160), 6, 2, 7; (465616), 6, 2, 7; *[366, 54, 0∗, 2016/04/05–2016/05/07]*

167 Bülach Observatory
S. Meister, Vogelsangstr. 9, CH-8180 Bülach, Switzerland [stefan.meister@astroinfo.org]
0.36-m $f/8$ Ritchey-Chrétien + CCD
PPMXL
2016 JW_5, 6, 1, 0; *[6, 1, 0∗, 2016/05/05]*

168 Kourovskaya
G. S. Romashin, Kourovskaya Astronomical Observatory, Sloboda, Pervouralskij region, 623072 Sverdlovsk Oblast, Russia [edkuz@astro.urgu.e-burg.su]
Observers Y. Wiebe, A. Shagabutdinov, R. Saveliev
Measurers Y. Wiebe, G. Kaiser, A. Shagabutdinov, R. Saveliev
0.40-m $f/0.78$ Schmidt + CCD
UCAC-4
2016 FE_1, 5, 1, 0; (455), 4, 1, 0; (1652), 4, 1, 0; (1685), 3, 1, 0; (3086), 3, 1, 0; (7350), 4, 1, 0; (9400), 3, 1, 0; (20826), 6, 2, 1; (30778), 3, 1, 0; (67511), 4, 1, 0; (68216), 7, 2, 1; (68527), 4, 1, 0; (137805), 4, 1, 0; (153953), 7, 2, 1; (162385), 7, 2, 1; (250706), 4, 1, 0; (267223), 4, 1, 0; (388945), 5, 1, 0; *[81, 18, 0∗, 2016/02/10–2016/04/16]*

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
(627), 5, 1, 0; (844), 5, 1, 0; (967), 5, 1, 0; (1070), 5, 1, 0; (1124), 5, 1, 0; (1518), 5, 1, 0; (1715), 5, 1, 0; (1835), 5, 1, 0; (2058), 4, 1, 0; (2309), 5, 1, 0; (2656), 10, 2, 11; (2880), 4, 1, 0; (3173), 5, 1, 0; (3575), 5, 1, 0; (3680), 5, 1, 0; (3844), 4, 1, 0; (5001), 5, 1, 0; (5318), 5, 1, 0; (5672), 5, 1, 0; (5925), 15, 3, 11; (6024), 4, 1, 0; (6917), 4, 1, 0; *[120, 22, 0∗, 2016/04/26–2016/05/17]*

198 Wildberg
R. Apitzsch, Schwarzwaldstrasse 17-2, D-72218 Wildberg, Germany [astrowild@astro-wildberg.de]
0.35-m $f/3.1$ reflector + CCD
URAT-1
2011 EK_2, 4, 1, 0; 2011 EM_{47}, 11, 3, 2; 2016 JM_2, 27, 3, 26; (95929), 4, 1, 0; (148709), 3, 1, 0; (159197), 3, 1, 0; (175441), 8, 2, 2; (229556), 3, 1, 0; (257320), 3, 1, 0; (276325), 5, 1, 0; (308154), 8, 2, 2; (418938), 6, 2, 2; (420088), 3, 1, 0; (465992), 6, 1, 0; *[94, 14, 0∗, 2016/04/11–2016/05/06]*

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
2007 VT_6, 2, 1, 0; 2016 HP_3, 2, 1, 0; 2016 JW_5, 2, 1, 0; 2016 JY_5, 2, 1, 0; 2016 JZ_5, 2, 1, 0; 2016 JN_{34}, 2, 1, 0; (32495), 2, 1, 0; (86667), 2, 1, 0; *[16, 8, 0∗, 2016/05/04–2016/05/18]*

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, 0.84-m $f/3.5$ reflector + CCD
UCAC-4, PPMXL
2005 GR_{33}, 5, 1, 0; 2006 CW, 3, 1, 0; 2016 CY_{31}, 3, 1, 0; 2016 DF_{17}, 2, 1, 0; 2016 EH_1, 3, 1, 0; 2016 EQ_1, 3, 1, 0; 2016 EV_{27}, 3, 1, 0; 2016 EM_{28}, 3, 1, 0; 2016 EP_{86}, 2, 1, 0; 2016 ER_{155}, 2, 1, 0; 2016 EK_{156}, 3, 1, 0; 2016 EH_{157}, 3, 1, 0; 2016 EL_{157}, 3, 1, 0; 2016 ED_{158}, 2, 1, 0; 2016 EH_{158}, 3, 1, 0; 2016 FA, 3, 1, 0; 2016 FB, 3, 1, 0; 2016 FC, 3, 1, 0; 2016 FY_3, 3, 1, 0; 2016 FL_{12}, 3, 1, 0; 2016 FL_{13}, 3, 1, 0; 2016 FU_{13}, 3, 1, 0; 2016 GM_2, 3, 1, 0; 2016 GN_2, 3, 1, 0; 2016 GH_3, 3, 1, 0; 2016 GH_{135}, 3, 1, 0; 2016 GF_{216}, 4, 1, 0; 2016 HN_2, 2, 1, 0; 2016 HD_3, 2, 1, 0; 2016 HE_3, 6, 2, 5; 2016 HF_3, 4, 1, 0; 2016 JP, 3, 1, 0; 2016 JP_5, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 3, 1, 0; 2016 JM_6, 2, 1, 0; 2016 JX_{11}, 5, 1, 0; 2016 JJ_{17}, 3, 1, 0; (5603), 3, 1, 0; (10608), 2, 1, 0; (16699), 2, 1, 0; (23046), 2, 1, 0; (23406), 3, 1, 0; (24048), 2, 1, 0; (26065), 3, 1, 0; (29930), 2, 1, 0; (31974), 2, 1, 0; (32930), 2, 1, 0; (37344), 3, 1, 0; (56904), 2, 1, 0; (67824), 3, 1, 0; (73488), 2, 1, 0; (75407), 2, 1, 0; (76010), 2, 1, 0; (77868), 2, 1, 0; (82724), 2, 1, 0; (134739), 2, 1, 0; (151785), 2, 1, 0; (154490), 2, 1, 0; (155311), 2, 1, 0; (166919), 2, 1, 0; (202354), 2, 1, 0; (268069), 3, 1, 0; (331446), 2, 1, 0; (332588), 2, 1, 0; (375279), 2, 1, 0; (410513), 2, 1, 0; (414021), 3, 1, 0; (450160), 5, 1, 0; (455184), 3, 1, 0; (463991), 2, 1, 0; (465824), 3, 1, 0; *[199, 73, 0∗, 2016/03/17–2016/05/06]*

246 Kleť Observatory-KLENOT
J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, South Bohemia, Czech Republic [klet@klet.cz]
Observers M. Tichý, J. Tichá, M. Kočer
1.06-m KLENOT Telescope + CCD
UCAC-4
2002 CX_{58}, 7, 1, 0; 2003 KO_2, 9, 1, 0; 2009 HD_{82}, 7, 1, 0; 2014 KZ_{44}, 5, 1, 0; 2015 TX_{143}, 8, 1, 0; 2015 XB_{379}, 8, 1, 0; 2016 GS_2, 15, 2, 10; 2016 GW_{221}, 14, 2, 7; 2016 HL, 32, 4, 3; 2016 HF_3, 28, 4, 3; 2016 HP_3, 8, 2, 3; 2016 HR_3, 7, 1, 0; 2016 HS_3, 8, 1, 0; 2016 HO_6, 7, 1, 0; 2016 HP_6, 9, 1, 0; 2016 HD_{19}, 8, 1, 0; 2016 JP, 20, 3, 2; 2016 JQ_5, 6, 1, 0; 2016 JW_5, 14, 2, 2; 2016 JX_{11}, 8, 1, 0; 2016 JP_{15}, 4, 1, 0; 2016 JY_{16}, 4, 1, 0; 2016 JP_{17}, 19, 2, 1; 2016 JR_{17}, 2, 1, 0; 2016 JC_{18}, 4, 1, 0; 2016 JE_{18}, 6, 1, 0; 2016 JH_{18}, 6, 2, 1; 2016 JV_{24}, 3, 1, 0; (3555), 8, 1, 0; (4022), 8, 1, 0; (4389), 8, 1, 0; (7167), 8, 1, 0; (7350), 8, 1, 0; (8409), 7, 1, 0; (12683), 9, 1, 0; (13147), 8, 1, 0; (13997), 10, 1, 0; (16767), 6, 1, 0; (21510), 6, 1, 0; (21726), 9, 1, 0; (25509), 16, 2, 1; (26360), 8, 1, 0; (32967), 7, 1, 0; (33644), 8, 1, 0; (35723), 8, 1, 0; (37975), 10, 1, 0; (41999), 6, 1, 0; (58162), 4, 1, 0; (59562), 8, 1, 0; (65968), 6, 1, 0; (69466), 10, 1, 0; (70366), 4, 1, 0; (74517), 7, 1, 0; (77885), 6, 1, 0; (81007), 8, 1, 0; (82443), 7, 1, 0; (86667), 8, 1, 0; (86826), 8, 1, 0; (92934), 5, 1, 0; (93675), 12, 2, 1; (96857), 7, 1, 0; (97769), 7, 1, 0; (103440), 6, 1, 0; (107200), 10, 1, 0; (107685), 10, 1, 0; (109393), 4, 1, 0; (109523), 3, 1, 0; (115792), 4, 1, 0; (116620), 8, 1, 0; (130344), 8, 1, 0; (136909), 7, 1, 0; (145256), 10, 1, 0; (153872), 5, 1, 0; (171685), 5, 1, 0; (175704), 7, 1, 0; (186601), 4, 1, 0; (196060), 7, 1, 0; (211950), 7, 1, 0; (224030), 9, 1, 0; (279476), 6, 1, 0; (465616), 10, 1, 0; *[671, 81, 0∗, 2016/04/29–2016/05/09]*

260 Siding Spring-DSS
E. Colombini, Via Manfredini 26, I-41043 Formigine (MO) Italy [ermes.colombini@tin.it] (5)
Measurer E. Colombini
1.2-m Schmidt
PPMXL
(14135), 2, 1, 0; (14136), 2, 1, 0; (14141), 2, 1, 0; (14142), 2, 1, 0; *[8, 4, 0∗, 1976/05/27–1994/08/27]*

261 Palomar-DSS
E. Colombini, Via Manfredini 26, I-41043 Formigine (MO) Italy [ermes.colombini@tin.it] (5)
Measurer E. Colombini
1.2-m Schmidt
PPMXL
(14138), 2, 1, 0; (14142), 2, 1, 0; (14143), 2, 1, 0; (14146), 2, 1, 0; (15525), 2, 1, 0; (134340), 2, 2, 1943; *[12, 6, 0∗, 1949/11/21–1993/08/22]*

290 Mt. Graham
R. P. Boyle, Vatican Observatory Research Group, Steward Observatory, Tucson, AZ 85721, U.S.A. [rpboyle@mac.com] (5)
Observers R. P. Boyle, K. Černis
1.80-m $f/9.2$ reflector + CCD
UCAC-4

2008 GY_{43}, 2, 1, 0; 2010 RG_{119}, 5, 1, 0; 2014 WQ_{254}, 6, 1, 0; 2016 JJ_{29} *, 17, 2, 1; 2016 JK_{29} *, 10, 2, 1; 2016 JL_{29} *, 8, 2, 1; (167842), 6, 1, 0; (170343), 12, 2, 1; (184872), 12, 1, 0; (456575), 4, 1, 0; (462475), 4, 1, 0; *[86, 11, 3*, 2016/05/09–2016/05/11]*

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, R. A. Mastaler, A. F. Tubbiolo, M. T. Read
1.8-m $f/2.7$ reflector + CCD
USNO-B1.0

1996 AW_1, 3, 1, 0; 1998 SH_2, 5, 2, 10; 2002 TX_{345}, 3, 1, 0; 2003 KZ_{18}, 9, 3, 13; 2003 YA, 3, 1, 0; 2004 TW_{337}, 3, 1, 0; 2005 HN_3, 3, 1, 0; 2006 UU_{50}, 2, 1, 0; 2006 UB_{64}, 2, 1, 0; 2007 CQ_{27}, 3, 1, 0; 2007 GD_4, 3, 1, 0; 2007 VZ_{137}, 3, 1, 0; 2008 TM_{187}, 3, 1, 0; 2009 DL_{46}, 3, 1, 0; 2009 HA_{21}, 3, 1, 0; 2009 JR_2, 3, 1, 0; 2010 JE_{87}, 9, 3, 24; 2010 RE_{42}, 3, 1, 0; 2011 CF_{56}, 3, 1, 0; 2011 UV_{63}, 3, 1, 0; 2012 JS_{17}, 3, 1, 0; 2012 KF_{49}, 3, 1, 0; 2012 UT_{20}, 3, 1, 0; 2012 XD_{112}, 6, 2, 12; 2013 TL_5, 6, 2, 2019; 2014 NB_{39}, 3, 1, 0; 2014 QH_{421}, 3, 1, 0; 2014 SL_{215}, 3, 1, 0; 2014 SA_{293}, 3, 1, 0; 2014 TS_{17}, 2, 1, 0; 2014 UX_{44}, 3, 1, 0; 2014 UY_{103}, 3, 1, 0; 2014 WP_{159}, 3, 1, 0; 2014 WB_{189}, 3, 1, 0; 2014 WF_{253}, 3, 1, 0; 2014 YQ_{15}, 2, 1, 0; 2015 AC_{243}, 3, 1, 0; 2015 BC_1, 3, 1, 0; 2015 BM_{10}, 3, 1, 0; 2015 BX_{102}, 3, 1, 0; 2015 BH_{290}, 3, 1, 0; 2015 BD_{293}, 3, 1, 0; 2015 CH_3, 3, 1, 0; 2015 HB_{42}, 3, 1, 0; 2015 HW_{173}, 3, 1, 0; 2015 UK_{52}, 8, 3, 12; 2015 XR_{128}, 6, 2, 11; 2016 AQ_{13}, 3, 1, 0; 2016 BZ_{14}, 6, 2, 6; 2016 CN_{259}, 3, 1, 0; 2016 CL_{264}, 3, 1, 0; 2016 EC_{27}, 3, 1, 0; 2016 EF_{27}, 3, 1, 0; 2016 EK_{27}, 3, 1, 0; 2016 EP_{70}, 3, 1, 0; 2016 EC_{85}, 3, 1, 0; 2016 EQ_{154}, 3, 1, 0; 2016 EC_{157}, 3, 1, 0; 2016 EZ_{157}, 2, 1, 0; 2016 EK_{158}, 3, 1, 0; 2016 EG_{167}, 3, 1, 0; 2016 EJ_{203}, 12, 5, 23; 2016 FD_{12}, 3, 1, 0; 2016 FV_{14}, 3, 1, 0; 2016 FY_{14}, 3, 1, 0; 2016 FC_{15}, 12, 4, 18; 2016 FF_{15}, 6, 2, 3; 2016 FJ_{39}, 3, 1, 0; 2016 FK_{39}, 3, 1, 0; 2016 FP_{43}, 3, 1, 0; 2016 FM_{60}, 3, 1, 0; 2016 GN_2, 2, 1, 0; 2016 GW_2, 3, 1, 0; 2016 GN_{39}, 3, 1, 0; 2016 GZ_{108}, 3, 1, 0; 2016 GW_{110}, 3, 1, 0; 2016 GD_{134}, 3, 1, 0; 2016 GQ_{134}, 8, 3, 14; 2016 GD_{135}, 14, 5, 14; 2016 GL_{135}, 3, 1, 0; 2016 GM_{175}, 3, 1, 0; 2016 GK_{206}, 2, 1, 0; 2016 GQ_{215}, 3, 1, 0; 2016 GM_{220}, 3, 1, 0; 2016 GN_{220}, 6, 2, 12; 2016 GQ_{220}, 2, 1, 0; 2016 GT_{220}, 6, 2, 9; 2016 GU_{220}, 2, 1, 0; 2016 GB_{221}, 3, 1, 0; 2016 GX_{221}, 5, 2, 8; 2016 GA_{222}, 3, 1, 0; 2016 GL_{222}, 3, 1, 0; 2016 GX_{233}, 3, 1, 0; 2016 GL_{240}, 3, 1, 0; 2016 GB_{241}, 7, 3, 22; 2016 GD_{241}, 2, 1, 0; 2016 GE_{245}, 3, 1, 0; 2016 GX_{245}, 3, 1, 0; 2016 GB_{246}, 3, 1, 0; 2016 GY_{247}, 3, 1, 0; 2016 GE_{248}, 6, 1, 0; 2016 GG_{248}, 3, 1, 0; 2016 GL_{249}, 6, 2, 27; 2016 GQ_{249}, 3, 1, 0; 2016 GW_{250}, 3, 1, 0; 2016 GY_{251}, 5, 2, 17; 2016 GB_{252}, 3, 1, 0; 2016 GC_{252}, 3, 1, 0; 2016 GD_{252}, 3, 1, 0; 2016 HE, 3, 1, 0; 2016 HM, 12, 4, 19; 2016 HN, 3, 1, 0; 2016 HP, 3, 1, 0; 2016 HQ, 3, 1, 0; 2016 HR, 3, 1, 0; 2016 HC_1, 3, 1, 0; 2016 HG_1, 3, 1, 0; 2016 HH_2, 3, 1, 0; 2016 HK_2, 3, 1, 0; 2016 HL_2, 3, 1, 0; 2016 HM_2, 6, 2, 1; 2016 HN_2, 3, 1, 0; 2016 HO_2, 3, 1, 0; 2016 HC_3, 6, 2, 10; 2016 HD_3, 6, 2, 3; 2016 HF_3, 12, 3, 2; 2016 HG_3, 3, 1, 0; 2016 HH_3, 9, 3, 2388; 2016 HL_3, 3, 1, 0; 2016 HO_3, 3, 1, 0; 2016 HV_3, 3, 1, 0; 2016 HX_3, 2, 1, 0; 2016 HP_6, 3, 1, 0; 2016 HQ_6, 6, 2, 1; 2016 HS_6, 2, 1, 0; 2016 HT_6, 8, 3, 2; 2016 HU_6, 5, 2, 2; 2016 HE_7, 3, 1, 0; 2016 HJ_7, 3, 1, 0; 2016 HF_8, 3, 1, 0; 2016 HU_9, 3, 1, 0; 2016 HO_{11}, 3, 1, 0; 2016 HZ_{13}, 3, 1, 0; 2016 HC_{16}, 3, 1, 0; 2016 HF_{19}, 14, 5, 11; 2016 HG_{19}, 3, 1, 0; 2016 HH_{19}, 3, 1, 0; 2016 HK_{19}, 3, 1, 0; 2016 HN_{19}, 2, 1, 0; 2016 HO_{19}, 6, 2, 1; 2016 HP_{19}, 7, 3, 2; 2016 HR_{19}, 3, 1, 0; 2016 HS_{19}, 10, 4, 12; 2016 HT_{19}, 8, 3, 3; 2016 HB_{23}, 6, 1, 0; 2016 HM_{23}, 3, 1, 0; 2016 JA, 5, 2, 7; 2016 JD, 3, 1, 0; 2016 JE, 2, 1, 0; 2016 JF, 3, 1, 0; 2016 JJ, 6, 2, 1; 2016 JK, 6, 2, 2; 2016 JO, 3, 1, 0; 2016 JQ, 6, 2, 1; 2016 JR, 3, 1, 0; 2016 JS, 3, 1, 0; 2016 JT, 9, 3, 12; 2016 JV, 3, 1, 0; 2016 JF_5, 5, 2, 1; 2016 JH_5, 3, 1, 0; 2016 JJ_5, 6, 2, 1; 2016 JM_5, 3, 1, 0; 2016 JN_5, 12, 4, 11; 2016 JR_5, 6, 2, 1; 2016 JV_5, 3, 1, 0; 2016 JA_6, 5, 2, 4; 2016 JF_6, 3, 1, 0; 2016 JK_6, 3, 1, 0; 2016 JM_6, 3, 1, 0; 2016 JX_6, 3, 1, 0; 2016 JF_{12}, 6, 2, 1; 2016 JG_{12}, 6, 2, 1; 2016 JZ_{16}, 2, 1, 0; 2016 JD_{17}, 3, 1, 0; 2016 JK_{17}, 3, 1, 0; 2016 JM_{17}, 3, 1, 0; 2016 JN_{17}, 6, 2, 1; 2016 JU_{17}, 6, 1, 0; 2016 JV_{17}, 3, 1, 0; 2016 JX_{17}, 3, 1, 0; 2016 JY_{17}, 3, 1, 0; 2016 JZ_{17}, 5, 2, 1; 2016 JB_{18}, 6, 2, 4; 2016 JC_{18}, 3, 1, 0; 2016 JF_{18}, 3, 1, 0; 2016 JL_{18}, 3, 1, 0; 2016 JM_{18}, 6, 2, 6; 2016 JP_{18}, 6, 2, 2; 2016 JR_{18}, 3, 1, 0; 2016 JS_{18}, 3, 1, 0; 2016 JT_{18}, 6, 2, 1; 2016 JB_{20}, 3, 1, 0; 2016 JP_{20}, 3, 1, 0; 2016 JH_{21}, 3, 1, 0; 2016 JG_{23}, 3, 1, 0; 2016 JD_{24}, 3, 1, 0; 2016 JH_{24}, 6, 2, 1; 2016 JJ_{24}, 9, 3, 4; 2016 JK_{24}, 3, 1, 0; 2016 JL_{24}, 6, 2, 2; 2016 JN_{24}, 6, 1, 0; 2016 JR_{24}, 6, 2, 1; 2016 JU_{24}, 6, 2, 1; 2016 JJ_{25}, 3, 1, 0; 2016 JY_{25}, 3, 1, 0; 2016 JC_{26}, 3, 1, 0; 2016 JU_{26}, 6, 1, 0; 2016 JS_{28}, 2, 1, 0; 2016 JV_{28}, 2, 1, 0; 2016 JY_{28}, 3, 1, 0; 2016 JZ_{28}, 2, 1, 0; 2016 JA_{29}, 6, 2, 1; 2016 JB_{29}, 3, 1, 0; 2016 JC_{29}, 3, 1, 0; 2016 JF_{29}, 3, 1, 0; 2016 JO_{29}, 6, 2, 1351; 2016 JO_{30}, 9, 1, 0; 2016 JH_{32}, 3, 1, 0; 2016 JS_{33}, 3, 1, 0; 2016 JT_{33}, 3, 1, 0; 2016 JX_{33}, 3, 1, 0; 2016 JD_{34}, 3, 1, 0; 2016 JE_{34}, 3, 1, 0; 2016 JH_{34}, 3, 1, 0; 2016 JK_{34}, 2, 1, 0; 2016 JM_{34}, 2, 1, 0; 2016 JN_{34}, 3, 1, 0; 2016 KB, 3, 1, 0; (329705), 3, 1, 0; (453729), 6, 2, 10; (462550), 5, 2, 1; (462959), 3, 1, 0; (465512), 3, 1, 0; (466069), 3, 1, 0; (466642), 3, 1, 0; (466652), 6, 1, 0; (466664), 3, 1, 0; (466674), 6, 2, 2197; (466721), 3, 1, 0; (466742), 3, 1, 0; (466743), 6, 2, 896; (466767), 3, 1, 0; (466800), 3, 1, 0; (466843), 3, 1, 0; (466863), 3, 1, 0; (466870), 3, 1, 0; (466970), 6, 2, 885; (466988), 6, 1, 0; (467019), 3, 1, 0; (467021), 3, 1, 0; (467046), 3, 1, 0; (467185), 3, 1, 0; (467186), 3, 1, 0; (467191), 3, 1, 0; (467200), 3, 1, 0; (467209), 3, 1, 0; (467219), 3, 1, 0; (467242), 3, 1, 0; (467264), 3, 1, 0; (467268), 3, 1, 0; (467280), 3, 1, 0; *[1075, 271, 0*, 2001/04/24–2016/05/19]*

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 K. Nishiyama, T. Nimura, S. Urakawa, A. Asami, S. Okumura
1.0-m $f/3.0$ reflector + CCD
GSC-ACT, UCAC-2, USNO-B1.0

2016 EC_{148}, 3, 1, 0; 2016 FU_{60}, 5, 1, 0; 2016 HR_3, 5, 1, 0; 2016 HP_6, 4, 1, 0; 2016 HD_{19}, 11, 2, 1; 2016 JP, 3, 1, 0; 2016 JG_5, 4, 1, 0; 2016 JW_5, 4, 1, 0; 2016 JW_{28}, 11, 2, 1; 2016 JG_{29}, 5, 1, 0; (275558), 3, 1, 0; *[58, 11, 0*, 2010/02/21–2016/05/18]*

309 Cerro Paranal

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G. Barentsen, University of Hertfordshire, Hatfield AL10 9AB, United Kingdom [geert@barentsen.be] (17)
Observers M. Altmann, T. Prusti
Measurers C. Barache, S. Bouquillon, T. Carlucci, F. Taris
2.6-m $f/5.5$ Ritchey-Chrétien + CCD
PPMXL

{16} 2002 NO_{78}, 10, 1, 0; 2004 TW_{317}, 10, 1, 0; 2005 UQ_{121}, 20, 1, 0; 2005 WF_{14}, 6, 1, 0; 2006 SG_{286}, 10, 1, 0; 2006 SF_{344}, 6, 1, 0; 2006 VN_{143}, 6, 1, 0; 2007 TB_{123}, 9, 1, 0; 2007 TS_{354}, 6, 1, 0; 2007 US_{33}, 10, 1, 0; 2007 UW_{86}, 10, 1, 0; 2008 SR_{61}, 6, 1, 0; 2008 TO_{104}, 10, 1, 0; 2008 UY_{344}, 20, 1, 0; 2009 BP_{143}, 6, 1, 0; 2009 FX_7, 8, 1, 0; 2009 FA_{63}, 20, 1, 0; 2009 UU_{74}, 7, 1, 0; 2010 RU_{154}, 12, 1, 0; 2010 VL_{97}, 16, 1, 0; 2011 AL_{22}, 10, 1, 0; 2012 KV_{49}, 10, 1, 0; 2012 TX_{271}, 10, 1, 0; 2012 UM_{46}, 10, 1, 0; 2012 UU_{60}, 7, 1, 0; 2013 OB_8, 7, 1, 0; 2013 QH_{44}, 5, 1, 0; 2013 RX_{75}, 10, 1, 0; 2013 SA_{77}, 6, 1, 0; 2013 TD_{49}, 10, 1, 0; 2013 TN_{111}, 10, 1, 0; 2013 YK_{38}, 8, 1, 0; 2013 YH_{47}, 10, 1, 0; 2014 UC_{84}, 8, 1, 0; 2014 WR_{334}, 10, 1, 0; 2015 AJ_{26}, 9, 1, 0; 2015 BB_6, 10, 1, 0; 2015 BQ_{88}, 10, 1, 0; 2015 BP_{98}, 9, 1, 0; 2015 BO_{242}, 10, 1, 0; 2015 BP_{248}, 10, 1, 0; 2015 BP_{317}, 20, 1, 0; 2015 DM_{65}, 8, 1, 0; 2015 DQ_{145}, 7, 1, 0; 2016 GD_{242} *, 10, 1, 0; 2016 GE_{242} *, 7, 1, 0; 2016 HS *, 9, 1, 0; 2016 HG_4 *, 6, 1, 0; 2016 HP_7 *, 8, 1, 0; 2016 HQ_7 *, 10, 1, 0; 2016 HY_7 *, 10, 1, 0; 2016 HZ_7 *, 8, 1, 0; 2016 HT_{15}, 10, 1, 0; 2016 HV_{15}, 10, 1, 0; 2016 HA_{16}, 10, 1, 0; 2016 HC_{16}, 10, 1, 0; 2016 HD_{16}, 10, 1, 0; 2016 JV_6, 10, 1, 0; 2016 JA_{16}, 9, 1, 0; 2016 JE_{16}, 10, 1, 0; 2016 JF_{16}, 7, 1, 0; 2016 JQ_{16}, 4, 1, 0; 2016 JY_{20}, 10, 1, 0; 2016 JG_{21}, 9, 1, 0; 2016 JZ_{21}, 6, 1, 0; 2016 JK_{22}, 9, 1, 0; 2016 JO_{22}, 8, 1, 0; 2016 JY_{22}, 10, 1, 0; 2016 JO_{31}, 10, 1, 0; 2016 JQ_{35}, 10, 1, 0; (2920), 10, 1, 0; (2958), 8, 1, 0; (3688), 7, 1, 0; (4259), 3, 1, 0; (6639), 5, 1, 0; (7370), 10, 1, 0; (8204), 10, 1, 0; (9099), 5, 1, 0; (9286), 5, 1, 0; (10642), 2, 1, 0; (11547), 10, 1, 0; (11575), 10, 1, 0; (11937), 10, 1, 0; (14845), 10, 1, 0; (17009), 8, 1, 0; (17752), 10, 1, 0; (23374), 13, 1, 0; (23655), 10, 1, 0; (24106), 10, 1, 0; (24340), 10, 1, 0; (25483), 10, 1, 0; (28762), 10, 1, 0; (29064), 10, 1, 0; (29486), 8, 1, 0; (30685), 7, 1, 0; (31161), 7, 1, 0; (31244), 10, 1, 0; (31481), 10, 1, 0; (32096), 10, 1, 0; (32857), 9, 1, 0; (34142), 8, 1, 0; (34727), 10, 1, 0; (34775), 10, 1, 0; (35228), 10, 1, 0; (35713), 10, 1, 0; (37377), 6, 1, 0; (38127), 10, 1, 0; (40784), 5, 1, 0; (40877), 6, 1, 0; (41158), 7, 1, 0; (43502), 20, 1, 0; (44645), 10, 1, 0; (45093), 10, 1, 0; (46335), 10, 1, 0; (46490), 20, 1, 0; (47992), 10, 1, 0; (48247), 10, 1, 0; (48402), 10, 1, 0; (50930), 10, 1, 0; (52253), 5, 1, 0; (52401), 10, 1, 0; (52545), 10, 1, 0; (53795), 10, 1, 0; (55646), 10, 1, 0; (56207), 9, 1, 0; (60058), 10, 1, 0; (62004), 10, 1, 0; (64321), 10, 1, 0; (65086), 20, 1, 0; (65174), 20, 1, 0; (65765), 10, 1, 0; (70442), 7, 1, 0; (71331), 10, 1, 0; (72250), 9, 1, 0; (72720), 10, 1, 0; (73906), 9, 1, 0; (74918), 10, 1, 0; (75168), 10, 1, 0; (75704), 10, 1, 0; (77432), 10, 1, 0; (78282), 6, 1, 0; (78629), 10, 1, 0; (78835), 7, 1, 0; (79014), 10, 1, 0; (79027), 8, 1, 0; (79129), 10, 1, 0; (79252), 8, 1, 0; (79827), 10, 1, 0; (79974), 5, 1, 0; (80805), 20, 1, 0; (81027), 10, 1, 0; (81999), 10, 1, 0; (82779), 10, 1, 0; (83035), 10, 1, 0; (83546), 10, 1, 0; (83661), 8, 1, 0; (83905), 10, 1, 0; (83986), 10, 1, 0; (85360), 5, 1, 0; (87327), 18, 2, 1; (89852), 7, 1, 0; (89913), 9, 1, 0; (92382), 6, 1, 0; (93491), 10, 1, 0; (93574), 9, 1, 0; (93633), 10, 1, 0; (94399), 10, 1, 0; (94911), 6, 1, 0; (98236), 17, 1, 0; (99878), 10, 1, 0; (99958), 8, 1, 0; (100014), 10, 1, 0; (101000), 10, 1, 0; (101367), 7, 1, 0; (105765), 8, 1, 0; (106187), 10, 1, 0; (106245), 10, 1, 0; (107119), 20, 1, 0; (107471), 10, 1, 0; (107608), 10, 1, 0; (107921), 7, 1, 0; (109244), 5, 1, 0; (110520), 10, 1, 0; (112398), 10, 1, 0; (112882), 10, 1, 0; (113711), 10, 1, 0; (115315), 9, 1, 0; (115586), 10, 1, 0; (115964), 10, 1, 0; (116068), 10, 1, 0; (116508), 10, 1, 0; (117462), 10, 1, 0; (117656), 10, 1, 0; (119354), 5, 1, 0; (119406), 10, 1, 0; (119981), 10, 1, 0; (121371), 6, 1, 0; (122067), 10, 1, 0; (126015), 10, 1, 0; (126201), 8, 1, 0; (126418), 9, 1, 0; (126426), 9, 1, 0; (127026), 10, 1, 0; (128920), 6, 1, 0; (130612), 10, 1, 0; (131835), 10, 1, 0; (134168), 5, 1, 0; (134683), 10, 1, 0; (137496), 8, 1, 0; (137807), 10, 1, 0; (137836), 10, 1, 0; (139096), 10, 1, 0; (141510), 10, 1, 0; (141665), 10, 1, 0; (141978), 10, 1, 0; (142343), 9, 1, 0; (142409), 9, 1, 0; (143448), 4, 1, 0; (143802), 10, 1, 0; (147713), 10, 1, 0; (148899),

10, 1, 0; (153852), 10, 1, 0; (153934), 8, 1, 0; (154527), 10, 1, 0; (154583), 10, 1, 0; (155173), 10, 1, 0; (158428), 10, 1, 0; (161591), 10, 1, 0; (161766), 6, 1, 0; (161890), 18, 1, 0; (162699), 10, 1, 0; (162999), 10, 1, 0; (163245), 10, 1, 0; (164176), 7, 1, 0; (164212), 8, 1, 0; (165843), 10, 1, 0; (168023), 10, 1, 0; (169017), 10, 1, 0; (169363), 10, 1, 0; (170752), 10, 1, 0; (170820), 10, 1, 0; (170864), 5, 1, 0; (171197), 10, 1, 0; (171940), 10, 1, 0; (172424), 10, 1, 0; (172937), 10, 1, 0; (173547), 10, 1, 0; (173604), 9, 1, 0; (174700), 10, 1, 0; (174742), 10, 1, 0; (174880), 10, 1, 0; (175663), 10, 1, 0; (179825), 10, 1, 0; (180267), 10, 1, 0; (183018), 7, 1, 0; (183143), 10, 1, 0; (183257), 10, 1, 0; (183363), 7, 1, 0; (187096), 10, 1, 0; (187688), 9, 1, 0; (188105), 5, 1, 0; (190264), 10, 1, 0; (190432), 10, 1, 0; (191165), 9, 1, 0; (191775), 4, 1, 0; (192567), 9, 1, 0; (192797), 10, 1, 0; (197466), 10, 1, 0; (197483), 10, 1, 0; (198301), 10, 1, 0; (199592), 10, 1, 0; (201647), 10, 1, 0; (202758), 10, 1, 0; (202762), 10, 1, 0; (202791), 10, 1, 0; (204169), 20, 1, 0; (206868), 10, 1, 0; (209531), 10, 1, 0; (210379), 9, 1, 0; (211152), 10, 1, 0; (217490), 10, 1, 0; (217934), 20, 1, 0; (219709), 10, 1, 0; (219902), 10, 1, 0; (222285), 10, 1, 0; (224199), 14, 1, 0; (224355), 7, 1, 0; (224981), 10, 1, 0; (225003), 10, 1, 0; (225238), 9, 1, 0; (225627), 10, 1, 0; (225863), 9, 1, 0; (225998), 10, 1, 0; (227474), 10, 1, 0; (227477), 10, 1, 0; (227943), 10, 1, 0; (228101), 10, 1, 0; (228323), 19, 1, 0; (229728), 10, 1, 0; (232275), 9, 1, 0; (233781), 10, 1, 0; (235718), 10, 1, 0; (236055), 4, 1, 0; (237363), 8, 1, 0; (237377), 10, 1, 0; (238328), 15, 1, 0; (238752), 10, 1, 0; (241268), 10, 1, 0; (241597), 10, 1, 0; (242571), 10, 1, 0; (242576), 10, 1, 0; (243487), 9, 1, 0; (244547), 10, 1, 0; (245922), 10, 1, 0; (249793), 10, 1, 0; (251402), 9, 1, 0; (251689), 5, 1, 0; (253330), 10, 1, 0; (253382), 10, 1, 0; (253409), 6, 1, 0; (253551), 16, 1, 0; (253703), 5, 1, 0; (253848), 10, 1, 0; (255851), 10, 1, 0; (256079), 10, 1, 0; (257694), 10, 1, 0; (258665), 10, 1, 0; (258952), 9, 1, 0; (258975), 10, 1, 0; (259564), 10, 1, 0; (262511), 10, 1, 0; (263109), 13, 1, 0; (263799), 6, 1, 0; (263800), 10, 1, 0; (264955), 10, 1, 0; (266137), 8, 1, 0; (267384), 9, 1, 0; (267483), 10, 1, 0; (267505), 10, 1, 0; (269591), 10, 1, 0; (269791), 9, 1, 0; (271824), 10, 1, 0; (272763), 10, 1, 0; (272934), 20, 1, 0; (274523), 10, 1, 0; (274560), 10, 1, 0; (276650), 10, 1, 0; (277453), 10, 1, 0; (278761), 4, 1, 0; (279710), 10, 1, 0; (281647), 10, 1, 0; (285060), 6, 1, 0; (285232), 20, 1, 0; (285550), 8, 1, 0; (288120), 10, 1, 0; (291684), 8, 1, 0; (292087), 9, 1, 0; (292995), 10, 1, 0; (294435), 9, 1, 0; (295040), 10, 1, 0; (301802), 10, 1, 0; (307321), 10, 1, 0; (308539), 10, 1, 0; (314648), 10, 1, 0; (316006), 10, 1, 0; (316916), 10, 1, 0; (318456), 9, 1, 0; (318598), 10, 1, 0; (320435), 10, 1, 0; (320483), 7, 1, 0; (321987), 10, 1, 0; (322686), 10, 1, 0; (323360), 10, 1, 0; (323716), 10, 1, 0; (323728), 10, 1, 0; (325987), 10, 1, 0; (327199), 10, 1, 0; (328488), 10, 1, 0; (328495), 9, 1, 0; (330313), 10, 1, 0; (332113), 10, 1, 0; (332114), 9, 1, 0; (333451), 10, 1, 0; (335221), 7, 1, 0; (335770), 10, 1, 0; (336739), 10, 1, 0; (338775), 7, 1, 0; (339528), 20, 1, 0; (341595), 10, 1, 0; (342945), 5, 1, 0; (343649), 6, 1, 0; (344768), 10, 1, 0; (356241), 20, 1, 0; (356448), 9, 1, 0; (365052), 10, 1, 0; (367680), 5, 1, 0; (367704), 6, 1, 0; (368934), 10, 1, 0; (368952), 6, 1, 0; (371340), 10, 1, 0; (371558), 5, 1, 0; (371892), 10, 1, 0; (373180), 20, 1, 0; (373244), 7, 1, 0; (373739), 10, 1, 0; (374359), 9, 1, 0; (374398), 7, 1, 0; (374470), 8, 1, 0; (374761), 10, 1, 0; (375010), 10, 1, 0; (375624), 6, 1, 0; (375842), 5, 1, 0; (375954), 5, 1, 0; (376209), 10, 1, 0; (376308), 9, 1, 0; (376849), 10, 1, 0; (376966), 9, 1, 0; (377402), 9, 1, 0; (377457), 10, 1, 0; (377496), 8, 1, 0; (377775), 10, 1, 0; (378889), 9, 1, 0; (378893), 10, 1, 0; (378937), 10, 1, 0; (379044), 10, 1, 0; (379666), 10, 1, 0; (380915), 10, 1, 0; (381296), 7, 1, 0; (381969), 7, 1, 0; (382386), 6, 1, 0; (382794), 10, 1, 0; (385142), 20, 1, 0; (397924), 10, 1, 0; (409332), 10, 1, 0; (414416), 9, 1, 0; (416215), 10, 1, 0; (417501), 9, 1, 0; (419222), 10, 1, 0; (419717), 9, 1, 0; (420486), 8, 1, 0; (421406), 10, 1, 0; (423608), 7, 1, 0; (423874), 10, 1, 0; (424060), 17, 1, 0; (425456), 10, 1, 0; (425600), 6, 1, 0; (425607), 10, 1, 0; (426858), 10, 1, 0; (429267), 6, 1, 0; (429467), 8, 1, 0; (430257), 8, 1, 0; (430258), 10, 1, 0; (430792), 10, 1, 0; (431519), 9, 1, 0; (431915), 8, 1, 0; (432004), 10, 1, 0; (432300), 10, 1, 0; (432597), 8, 1, 0; (458198), 17, 2, 1; (461896), 10, 1, 0; (464224), 8, 1, 0; (464236), 10, 1, 0; (465575), 10, 1, 0; (466784), 8, 1, 0; *[4449, 464, 8*, 2016/03/12–2016/05/18]*

{17} 2016 EH_{151}, 7, 2, 1; *[7, 1, 0*, 2015/01/25–2015/01/26]*

327 Peking Observatory, Xinglong Station

J. Zhu, National Astronomical Observatories, Chinese Academy of Sciences, 20A Datun Road, Chaoyang District, Beijing 100012, Peoples Republic of China [zj@bac.pku.edu.cn]
Observers J. Zhu, X. Zhou, S. J. Xue, J. Ma, H. Wu, X. M. Teng, C. H. Liu, S. L. Kong
Measurers X. M. Teng, S. L. Kong, C. H. Liu, J. Zhu
0.60-m Schmidt + CCD
2016 GX_{208}, 4, 1, 0; *[4, 1, 0*, 1996/10/14]*

333 Desert Eagle Observatory

W. K. Y. Yeung, 139 Sandringham Place NW, Calgary, AB T3K 3V8, Canada [microplanet333@yahoo.com]
0.45-m $f/3$ Schmidt-Cassegrain + CCD
USNO-A2.0, GSC-ACT
(466874), 3, 1, 0; *[3, 1, 0*, 2004/02/26]*

344 Bohyunsan Optical Astronomy Observatory

M.-Y. Chun, Korea Astronomy Observatory, San 36-1, Wha-am Dong, Yu-sung Gu, Daejon 305-348, Korea [mychun@boao.re.kr]
Observers Y.-B. Jeon, K. H. Kim, M. S. Kim
1.8-m $f/8$ reflector + CCD
GSC
(466729), 2, 1, 0; *[2, 1, 0*, 2001/01/05]*

448 Desert Moon Observatory

B. L. Stevens, 5675 Real del Norte, Las Cruces, NM 88012, U.S.A. [blslcnm@comcast.net]
0.3-m Schmidt-Cassegrain + CCD
UCAC-4, URAT-1
2016 JP_{17}, 3, 1, 0; (309728), 3, 1, 0; (451003), 2, 1, 0; *[8, 3, 0*, 2016/05/08]*

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Observers K. Sárneczky, J. Vinkó, A. Nagy
Measurers K. Sárneczky, G. Kasza, A. Budai, A. Szabó
0.60-m Schmidt + CCD
USNO-B1.0
2002 CX_{58}, 12, 1, 0; 2003 KO_2, 7, 1, 0; 2005 PX_{12}, 3, 1, 0; 2015 XB_{379}, 8, 1, 0; 2016 BU_{13}, 8, 1, 0; 2016 GD_{242}, 3, 1, 0; 2016 HM, 7, 1, 0; 2016 HC_{10}, 3, 1, 0; 2016 JW_5, 12, 1, 0; 2016 JX_{11}, 3, 1, 0; 2016 JP_{17}, 25, 1, 0; (859), 3, 1, 0; (7627), 3, 1, 0; (8988), 3, 1, 0; (11413), 3, 1, 0; (11633), 3, 1, 0; (12303), 3, 1, 0; (14407), 6, 2, 1; (14554), 3, 1, 0; (15145), 3, 1, 0; (16270), 3, 1, 0; (20762), 3, 1, 0; (20894), 3, 1, 0; (21624), 6, 2, 1; (23658), 3, 1, 0; (24798), 3, 1, 0; (25782), 3, 1, 0; (34965), 3, 1, 0; (35883), 3, 1, 0; (37032), 3, 1, 0; (37669), 3, 1, 0; (40128), 3, 1, 0; (41045), 6, 2, 1; (49627), 3, 1, 0; (50573), 3, 1, 0; (51777), 3, 1, 0; (56117), 6, 2, 1; (58764), 6, 2, 1; (59329), 3, 1, 0; (59663), 3, 1, 0; (59772), 3, 1, 0; (65832), 6, 2, 1; (67686), 3, 1, 0; (70195), 3, 1, 0; (70245), 3, 1, 0; (73944), 3, 1, 0; (74916), 3, 1, 0; (78867), 3, 1, 0; (84157), 6, 2, 1; (91134), 6, 2, 1; (96620), 3, 1, 0; (110289), 3, 1, 0; (111835), 6, 2, 1; (112410), 3, 1, 0; (112465), 6, 2, 1; (123530), 3, 1, 0; (126126), 6, 2, 1; (128808), 3, 1, 0; (140276), 3, 1, 0; (142006), 3, 1, 0; (143830), 3, 1, 0; (152566), 3, 1, 0; (152783), 3, 1, 0; (154555), 12, 1, 0; (196576), 3, 1, 0; (196960), 3, 1, 0; (225008), 3, 1, 0; (258477), 3, 1, 0; (269091), 6, 2, 6; (276457), 3, 1, 0; (317352), 3, 1, 0; (370769), 3, 1, 0; (375273), 6, 2, 1; (420645), 6, 2, 1; (466567), 3, 1, 0; (466910), 3, 1, 0; *[337, 76, 0*, 2010/12/04–2016/05/11]*

474 Mount John Observatory, Lake Tekapo

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Observers A. C. Gilmore, P. M. Kilmartin
1.0-m $f/7.7$ reflector + CCD
PPMXL
2009 BC_{11}, 4, 1, 0; 2012 HA_{17}, 4, 1, 0; 2013 LF_{29}, 3, 1, 0; 2014 MS_{67}, 4, 1, 0; 2015 XD_{130}, 3, 1, 0; 2016 AJ_8, 4, 1, 0; 2016 BH_1, 3, 1, 0; 2016 BN_1, 3, 1, 0; 2016 BT_{13}, 6, 2, 1; 2016 EE_{86}, 4, 1, 0; 2016 EB_{156}, 5, 2, 1; 2016 FE_1, 13, 2, 2; 2016 FJ_{14}, 4, 1, 0; 2016 GG_2, 3, 1, 0; 2016 GU_{216}, 4, 1, 0; 2016 GA_{221}, 4, 1, 0; 2016 GY_{221}, 4, 1, 0; 2016 GZ_{240}, 8, 2, 1; 2016 GD_{241}, 7, 2, 1; 2016 GE_{252}, 4, 1, 0; 2016 HC_3, 3, 1, 0; 2016 HO_6, 4, 1, 0; 2016 HP_6, 4, 1, 0; 2016 HE_{19}, 7, 2, 1; 2016 HG_{19}, 7, 2, 4; 2016 HH_{19}, 7, 2, 1; 2016 JA, 3, 1, 0; 2016 JB, 8, 2, 1; 2016 JH, 4, 1, 0; 2016 JR, 4, 1, 0; 2016 JT, 6, 2, 2; 2016 JQ_5, 15, 2, 1; 2016 JR_5, 8, 2, 2; 2016 JS_5, 11, 1, 0; 2016 JT_5, 3, 1, 0; 2016 JV_5, 4, 1, 0; 2016 JW_5, 5, 1, 0; 2016 JX_5, 3, 1, 0; 2016 JB_6, 3, 1, 0; 2016 JC_6, 41, 5, 5; 2016 JL_6, 10, 3, 2; 2016 JM_6, 13, 4, 3; 2016 JO_6, 6, 2, 1; 2016 JZ_{11}, 3, 1, 0; 2016 JH_{12}, 8, 2, 2; 2016 JB_{17}, 4, 1, 0; 2016 JK_{17}, 4, 1, 0; 2016 JC_{18}, 5, 1, 0; 2016 JE_{18}, 3, 1, 0; 2016 JF_{18}, 10, 1, 0; 2016 JK_{24}, 4, 1, 0; 2016 JM_{24}, 3, 1, 0; *[317, 52, 0*, 2016/04/15–2016/05/08]*

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
2014 SA_{293}, 3, 1, 0; *[3, 1, 0*, 2013/04/15]*

557 Ondřejov
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]
Observers M. Masek, K. Honkova, P. Kušnirák, K. Hornoch, J. Vrastil
0.65-m $f/3.6$ reflector + CCD
UCAC-4, UCAC-3
(1559), 7, 2, 2; (2535), 7, 2, 2; (2604), 12, 2, 1; (3868), 39, 7, 39; (6258), 6, 1, 0; (9841), 3, 1, 0; (10136), 3, 1, 0; (10988), 11, 3, 4; (20325), 16, 4, 5; (29540), 5, 1, 0; (44822), 2, 1, 0; (64215), 5, 1, 0; *[116, 12, 0*, 2016/04/01–2016/05/12]*

566 Haleakala-NEAT/GEODSS
R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
1-m $f/2.2$ Ritchey-Chrétien + CCD
PPMXL
2001 QN_{107}, 3, 1, 0; (9201), 3, 1, 0; *[6, 2, 0*, 1996/12/17]*

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I. Arroway, no details supplied [iarroway@uvic.ca] (46)
Observers D. Hung, D. Fohring, Y. Ramanjooloo, D. J. Tholen, R. J. Wainscoat, P. Forshay, D. Woodworth, B. Bolin, R. Jedicke, I. Arroway, J. Kavelaars, M. Schwamb, L. Wells, J. Hanus, V. Ali-Lagoa, M. Delbo, A. N. Heinze, C. Wipper
Measurers D. J. Tholen, M. Micheli, R. J. Wainscoat, B. Bolin, J. Hanus, A. N. Heinze
2.24-m University of Hawaii reflector, 3.6-m Canada-France-Hawaii Telescope + CCD
PPMXL
{19} 2016 JV_{31}, 3, 1, 0; (466451), 3, 1, 0; *[6, 2, 0*, 2004/09/12–2006/05/25]*

{20} 2016 GM_{247}, 3, 1, 0; 2016 JH_5, 3, 1, 0; 2016 JB_{20}, 3, 1, 0; (466653), 6, 2, 7; *[15, 4, 0*, 2005/09/30–2005/12/03]*

{23} 2016 JF_{36} *, 6, 2, 1; (45601), 3, 1, 0; *[9, 2, 1*, 2016/05/06–2016/05/07]*

{2} 2008 HU_4, 6, 2, 1; 2008 SW_{150}, 5, 2, 1; 2014 WO_{467}, 3, 1, 0; 2015 DB_{156}, 2, 1, 0; 2015 FK_{251}, 2, 1, 0; 2015 KU_{121}, 3, 2, 1; 2015 KR_{157}, 6, 2, 2; 2015 ME_{116}, 4, 2, 3; 2015 NK_3, 8, 2, 2; 2015 YE_{18}, 3, 1, 0; 2016 BX_{14}, 4, 1, 0; 2016 BZ_{14}, 5, 1, 0; 2016 CS_{29}, 4, 1, 0; 2016 CY_{135}, 6, 3, 3; 2016 CF_{137}, 6, 2, 8; 2016 CF_{194}, 4, 1, 0; 2016 CQ_{195}, 2, 1, 0; 2016 FC, 12, 4, 12; 2016 FA_4, 2, 1, 0; 2016 FJ_{14}, 6, 2, 15; 2016 FA_{15}, 4, 1, 0; 2016 FC_{15}, 2, 1, 0; 2016 FG_{15}, 2, 1, 0; 2016 FG_{60}, 2, 1, 0; 2016 GK_2, 2, 1, 0; 2016 GT_{128}, 4, 1, 0; 2016 GD_{134}, 4, 2, 7; 2016 GS_{134}, 2, 1, 0; 2016 GU_{216}, 4, 1, 0; 2016 GP_{220}, 2, 1, 0; 2016 GW_{220}, 10, 2, 1; 2016 GL_{222}, 4, 1, 0; 2016 GB_{241}, 10, 2, 1; 2016 HF_2, 3, 1, 0; 2016 HD_3, 3, 1, 0; 2016 HF_3, 16, 7, 12; 2016 HL_3, 10, 4, 8; 2016 HN_3, 15, 3, 3; 2016 HO_3, 30, 7, 15; 2016 HU_3, 4, 1, 0; 2016 HF_{19}, 16, 6, 8; 2016 HJ_{19}, 5, 1, 0; 2016 HP_{19}, 8, 3, 4; 2016 JA, 15, 6, 8; 2016 JP, 3, 1, 0; 2016 JV, 2, 1, 0; 2016 JS_5, 6, 1, 0; 2016 JY_5, 2, 1, 0; 2016 JA_6, 9, 4, 6; 2016 JB_{17}, 2, 1, 0; 2016 JC_{17}, 3, 1, 0; 2016 JH_{17}, 2, 1, 0; 2016 JK_{17}, 2, 1, 0; 2016 JN_{17}, 2, 1, 0; 2016 JB_{18}, 5, 2, 1; 2016 JD_{18}, 4, 2, 1; 2016 JG_{23}, 3, 1, 0; 2016 JU_{28}, 2, 1, 0; 2016 JA_{29}, 2, 1, 0; 2016 JC_{29}, 3, 1, 0; 2016 JM_{34}, 2, 1, 0; (6304), 3, 1, 0; (25093), 2, 1, 0; (36710), 8, 1, 0; (60884), 2, 1, 0; (91132), 6, 1, 0; (100336), 2, 1, 0; (183931), 2, 1, 0; (226896), 8, 1, 0; (229164), 2, 1, 0; (242635), 2, 1, 0; (375956), 2, 1, 0; (415225), 2, 1, 0; (423728), 4, 1, 0; *[369, 74, 0*, 2000/10/03–2016/05/18]*

{9} 2016 GU_{245}, 3, 1, 0; 2016 JL_{32}, 3, 1, 0; *[6, 2, 0*, 2007/01/26–2007/03/23]*

{41} 2006 SN_{415} *, 4, 2, 2; *[4, 1, 1*, 2006/09/18–2006/09/20]*

{45} 2014 FX_{61}, 8, 2, 26; 2016 JC_6, 17, 1, 0; *[25, 2, 0*, 2016/04/16–2016/05/12]*

{46} 2011 HZ_{102}, 6, 1, 0; 2012 HE_{85}, 3, 1, 0; *[9, 2, 0*, 2015/06/13]*

{29} 2009 JR_2, 3, 1, 0; 2013 LQ_7, 3, 1, 0; 2016 HD_3, 4, 1, 0; 2016 HF_3, 3, 1, 0; 2016 HO_3, 3, 1, 0; 2016 HP_3, 2, 1, 0; 2016 HF_{19}, 3, 1, 0; 2016 HJ_{19}, 3, 1, 0; 2016 HK_{19}, 3, 1, 0; 2016 HO_{19}, 3, 1, 0; 2016 HP_{19}, 3, 1, 0; 2016 HQ_{19}, 3, 1, 0; 2016 HS_{19}, 3, 1, 0; 2016 HT_{19}, 3, 1, 0; 2016 HN_{23}, 3, 1, 0; 2016 JE, 3, 1, 0; 2016 JF, 3, 1, 0; 2016 JH, 3, 1, 0; 2016 JR, 3, 1, 0; 2016 JH_5, 3, 1, 0; 2016 JN_5, 6, 2, 3; 2016 JO_5, 3, 1, 0; 2016 JU_5, 3, 1, 0; 2016 JA_6, 3, 1, 0; 2016 JB_6, 3, 1, 0; 2016 JD_6, 6, 2, 3; 2016 JL_6, 3, 1, 0; 2016 JM_6, 2, 1, 0; 2016 JD_{12}, 3, 1, 0; 2016 JH_{12}, 3, 1, 0; 2016 JK_{12}, 3, 1, 0; 2016 JC_{17}, 3, 1, 0; 2016 JH_{17}, 3, 1, 0; 2016 JJ_{17}, 3, 1, 0; 2016 JK_{17}, 3, 1, 0; 2016 JL_{17}, 1, 1, 0; 2016 JM_{17}, 3, 1, 0; 2016 JN_{17}, 3, 1, 0; 2016 JO_{17}, 3, 1, 0; 2016 JQ_{17}, 3, 1, 0; 2016 JU_{17}, 3, 1, 0; 2016 JZ_{17}, 3, 1, 0; 2016 JB_{18}, 3, 1, 0; 2016 JC_{18}, 3, 1, 0; 2016 JF_{18}, 3, 1, 0; 2016 JG_{18}, 9, 3, 7; 2016 JH_{24}, 9, 2, 3; 2016 JJ_{24}, 7, 2, 3; 2016 JK_{24}, 3, 1, 0; 2016 JL_{24}, 3, 1, 0; 2016 JN_{24}, 3, 1, 0; 2016 JU_{24}, 3, 1, 0; 2016 JT_{33}, 3, 1, 0; 2016 JV_{33}, 9, 3, 7; 2016 JD_{34}, 3, 1, 0; (466855), 3, 1, 0; *[193, 56, 0*, 2015/01/18–2016/05/13]*

583 Odessa-Mayaki
I. Stogneeva, 1B Marazliyivs'ka Street, UA-65014 Odessa, Ukraine [skyiris@ukr.net]
Observer V. Kashuba
Measurers V. Troianskyi, S. Kashuba
0.80-m $f/3$ reflector + CCD
UCAC-4
(946), 6, 1, 0; (2994), 3, 1, 0; (13278), 6, 1, 0; (15235), 5, 1, 0; (19629), 6, 1, 0; (19879), 6, 1, 0; (32235), 3, 1, 0; (42874), 6, 1, 0; (46834), 5, 1, 0; (56214), 5, 1, 0; (80035), 3, 1, 0; *[54, 11, 0*, 2016/04/06–2016/05/13]*

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
2016 JW_5, 6, 1, 0; *[6, 1, 0*, 2016/05/05]*

587 Sormano
P. Sicoli, Viale Montegrappa 6, I-23900 Lecco, Italy [obs.sormano@alice.it]
Observers A. Fumagalli, P. Sicoli, A. Testa
0.5-m $f/6.8$ reflector + CCD
UCAC-4
2016 JW_5, 3, 1, 0; 2016 JY_5, 2, 1, 0; 2016 JZ_5, 4, 1, 0; 2016 JA_6, 2, 1, 0; 2016 JD_{18}, 4, 1, 0; *[15, 5, 0*, 2016/05/04–2016/05/15]*

595 Farra d'Isonzo
E. Pettarin, CCAF, Strada Colombara 11, I-34072 Farra d'Isonzo (GO), Italy [info@ccaf.it]
Observers F. Bressan, E. Pettarin, F. Piani
0.61-m $f/4.0$ reflector + CCD
PPMXL
2016 HO_6, 2, 1, 0; 2016 HP_6, 2, 1, 0; 2016 HS_6, 2, 1, 0; 2016 HD_{19}, 2, 1, 0; *[8, 4, 0*, 2016/04/29–2016/04/30]*

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
2016 CL_{261}, 4, 1, 0; (466613), 2, 1, 0; (467212), 4, 1, 0; *[10, 3, 0*, 2003/02/27–2005/06/14]*

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 S. Pravdo, M. Hicks, K. Lawrence, D. MacDonald, P. Kervin, J. Africano
Measurers E. Colombini, R. J. Bouma
1.2-m reflector + CCD
PPMXL, USNO-B1.0
2002 GM_{98}, 3, 1, 0; 2002 TR_{302}, 3, 1, 0; 2002 TC_{321}, 6, 2, 16; 2002 TV_{322}, 6, 2, 21; 2002 TC_{324}, 3, 1, 0; 2002 TA_{329}, 3, 1, 0; 2002 TF_{329}, 3, 1, 0; 2002 TX_{334}, 3, 1, 0; 2002 TA_{337}, 3, 1, 0; 2002 TH_{337}, 2, 1, 0; 2002 TJ_{340}, 3, 1, 0; 2002 TK_{342}, 3, 1, 0; 2002 TX_{343}, 6, 2, 7; 2002 TL_{346}, 6, 2, 7; 2002 TN_{346}, 3, 1, 0; 2002 TY_{356}, 3, 1, 0; 2002 TU_{364}, 2, 1, 0; 2002 TO_{365}, 6, 2, 13; 2010 PZ_1, 6, 2, 5; 2010 VX_{57}, 6, 2, 973; 2012 HJ_{48}, 3, 1, 0; 2012 KX_5, 6, 2, 12; 2012 LX, 8, 3, 584; 2012 UA_{29}, 2, 1, 0; 2013 GN_{80}, 2, 1, 0; 2013 WT_{24}, 2, 1, 0; 2014 EY_{11}, 3, 1, 0; 2014 QX_{24}, 3, 1, 0; 2014 WD_4, 3, 1, 0; 2014 WU_{480}, 3, 1, 0; 2015 AW_{225}, 3, 1, 0; 2015 LR_{20}, 2, 1, 0; 2016 GG_{205}, 3, 1, 0; 2016 JH_{30}, 3, 1, 0; (6976), 2, 1, 0; (21587), 3, 1, 0; (326366), 2, 1, 0; (466205), 3, 1, 0; *[135, 38, 0*, 2000/12/03–2005/08/13]*

621 Bergisch Gladbach
W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]
0.60-m $f/5.2$ reflector + CCD
URAT-1
2004 RK_{332}, 3, 1, 0; 2007 HN, 7, 2, 2; 2015 AV_{34}, 3, 1, 0; 2016 ET_{87}, 3, 1, 0; 2016 GW_{110}, 3, 1, 0; 2016 GE_{248}, 3, 1, 0; 2016 HX_5, 3, 1, 0; 2016 HY_{15}, 3, 1, 0; 2016 HB_{23}, 7, 2, 1; 2016 JL_{12}, 6, 2, 1; 2016 JM_{12}, 6, 2, 1; 2016 JT_{12} *, 3, 1, 0; 2016 JU_{12} *, 3, 1, 0; 2016 JK_{19} *, 9, 2, 1; 2016 JL_{19} *, 8, 2, 1; 2016 JM_{19} *, 8, 2, 1; (29580), 3, 1, 0; (36005), 3, 1, 0; (53218), 6, 2, 1; (54560), 3, 1, 0; (65482), 3, 1, 0; (83169), 10, 3, 4; (109001), 3, 1, 0; (110604), 3, 1, 0; (127124), 6, 2, 1; (127128), 3, 1, 0; (146639), 3, 1, 0; (331539), 3, 1, 0; (369616), 3, 1, 0; (381830), 3, 1, 0; (426869), 3, 1, 0; (428701), 3, 1, 0; (428940), 5, 1, 0; (433745), 7, 2, 1; (466344), 3, 1, 0; (466766), 3, 1, 0; (466822), 3, 1, 0; (467018), 3, 1, 0; (467288), 3, 1, 0; *[166, 39, 5*, 2005/04/01–2016/05/08]*

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
URAT-1
2010 XN_{35}, 3, 1, 0; 2011 AB_{24}, 7, 2, 2; 2012 JH_{24}, 2, 1, 0; 2016 BV_{13}, 3, 1, 0; 2016 GS_{123}, 3, 1, 0; (64520), 3, 1, 0; (332554), 4, 2, 2; (419866), 4, 2, 2; *[29, 8, 0*, 2016/05/05–2016/05/08]*

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. Lawrence, K. Kuluhiwa, M. Hicks, R. Thicksten
Measurers E. Colombini, R. Matson
1.2-m Schmidt + CCD
PPMXL, USNO-A2.0
2001 XV_{14}, 3, 1, 0; 2002 GM_{98}, 6, 2, 17; 2002 TA_{182}, 3, 1, 0; 2002 TV_{193}, 3, 1, 0; 2002 TR_{302}, 3, 1, 0; 2002 TM_{306}, 3, 1, 0; 2002 TC_{321}, 3, 1, 0; 2002 TD_{322}, 3, 1, 0; 2002 TV_{322}, 5, 2, 1; 2002 TC_{324}, 3, 1, 0; 2002 TL_{324}, 6, 2, 8; 2002 TL_{325}, 3, 1, 0; 2002 TB_{326}, 9, 3, 14; 2002 TO_{327}, 6, 2, 10; 2002 TS_{327}, 3, 1, 0; 2002 TU_{327}, 5, 2, 10; 2002 TW_{327}, 3, 1, 0; 2002 TB_{328}, 5, 2, 10; 2002 TJ_{328}, 2, 1, 0; 2002 TA_{329}, 3, 1, 0; 2002 TF_{329}, 3, 1, 0; 2002 TK_{329}, 3, 1, 0; 2002 TO_{329}, 4, 1, 0; 2002 TB_{330}, 6, 2, 2; 2002 TG_{330}, 9, 3, 10; 2002 TN_{330}, 10, 2, 10; 2002 TP_{330}, 11, 3, 12; 2002 TS_{330}, 3, 1, 0; 2002 TY_{330}, 6, 2, 10; 2002 TD_{331}, 3, 1, 0; 2002 TC_{332}, 3, 1, 0; 2002 TH_{332}, 9, 3, 12; 2002 TJ_{332}, 6, 2, 1; 2002 TR_{332}, 5, 1, 0; 2002 TH_{333}, 5, 2, 1; 2002 TW_{334}, 5, 2, 1; 2002 TB_{337}, 6, 2, 1; 2002 TR_{338}, 3, 1, 0; 2002 TD_{340}, 3, 1, 0; 2002 TJ_{340}, 3, 1, 0; 2002 TB_{341}, 5, 2, 1; 2002 TC_{341}, 3, 1, 0; 2002 TD_{341}, 3, 1, 0; 2002 TF_{341}, 3, 1, 0; 2002 TQ_{341}, 3, 1, 0; 2002 TW_{341}, 5, 2, 1; 2002 TX_{341}, 6, 2, 1; 2002 TC_{342}, 6, 2, 1; 2002 TD_{342}, 3, 1, 0; 2002 TK_{342}, 3, 1, 0; 2002 TH_{343}, 3, 1, 0; 2002 TR_{343}, 3, 1, 0; 2002 TS_{343}, 3, 1, 0; 2002 TT_{343}, 3, 1, 0; 2002 TX_{343}, 6, 2, 20; 2002 TA_{344}, 3, 1, 0; 2002 TC_{344}, 3, 1, 0; 2002 TN_{344}, 5, 2, 46; 2002 TS_{345}, 3, 1, 0; 2002 TU_{345}, 3, 1, 0; 2002 TX_{345}, 3, 1, 0; 2002 TL_{346}, 11, 4, 40; 2002 TN_{346}, 3, 1, 0; 2002 TA_{348}, 6, 2, 13; 2002 TO_{348}, 6, 2, 13; 2002 TP_{348}, 11, 4, 37; 2002 TV_{348}, 6, 2, 43; 2002 TZ_{348}, 5, 2, 9; 2002 TY_{351}, 6, 2, 16; 2002 TA_{356}, 11, 4, 7; 2002 TF_{356}, 11, 4, 7; 2002 TG_{356}, 8, 3, 7; 2002 TH_{356}, 3, 1, 0; 2002 TY_{356}, 3, 1, 0; 2002 TR_{358}, 6, 2, 6; 2002 TK_{359}, 6, 2, 8; 2002 TV_{359}, 3, 1, 0; 2002 TU_{360}, 6, 2, 12; 2002 TA_{361}, 8, 2, 10; 2002 TO_{362}, 6, 2, 1; 2002 TU_{362}, 5, 2, 1; 2002 TU_{364}, 2, 1, 0; 2002 TA_{365}, 3, 1, 0; 2002 TO_{365}, 8, 3, 37; 2002 TS_{365}, 9, 3, 20; 2002 TR_{366}, 9, 3, 19; 2005 BY_{27}, 9, 3, 26; 2005 VJ_{52}, 3, 1, 0; 2007 UN_{50}, 3, 1, 0; 2009 SU_{130}, 3, 1, 0; 2010 GS_{161}, 3, 1, 0; 2010 OJ_{74}, 6, 2, 13; 2010 RO_{42}, 6, 2, 42; 2011 SO_{147}, 9, 3, 500; 2012 LX, 3, 1, 0; 2012 XK_{95}, 2, 1, 0; 2013 AG_{65}, 8, 3, 18; 2013 NQ_{13}, 3, 1, 0; 2013 QE_{41}, 3, 1, 0; 2013 RV_{31}, 9, 4, 7; 2013 RD_{35}, 3, 1, 0; 2013 YU_{93}, 2, 1, 0; 2014 DR_{133}, 3, 1, 0; 2014 EY_{11}, 5, 2, 469; 2014 RF_{18}, 19, 7, 74; 2014 SF_{215}, 3, 1, 0; 2014 SG_{313}, 3, 1, 0; 2014 TN_{70}, 3, 1, 0; 2014 TM_{82}, 3, 1, 0; 2014 UU_{103}, 3, 1, 0; 2014 UT_{115}, 3, 1, 0; 2014 VN_{24}, 3, 1, 0; 2014 WZ_{236}, 3, 1, 0; 2014 WU_{480}, 6, 2, 39; 2014 XR_{38}, 9, 3, 8; 2015 AW_{225}, 3, 1, 0; 2015 AC_{243}, 3, 1, 0; 2015 BC_1, 3, 1, 0; 2015 BG_{260}, 3, 1, 0; 2015 BO_{319}, 3, 1, 0; 2015 GR_{35}, 3, 1, 0; 2015 LR_{20}, 14, 5, 589; 2016 AP_3, 3, 1, 0; 2016 AR_{15}, 3, 1, 0; 2016 CU_{259}, 3, 1, 0; 2016 CG_{261}, 3, 1, 0; 2016 CV_{261}, 6, 1, 0; 2016 ED_{30}, 3, 1, 0; 2016 EN_{66}, 3, 1, 0; 2016 EH_{197}, 3, 1, 0; 2016 FR_3, 3, 1, 0; 2016 GE_{34}, 3, 1, 0; 2016 GB_{126}, 6, 2, 1539; 2016 GV_{137}, 3, 1, 0; 2016 GW_{150}, 3, 1, 0; 2016 GO_{164}, 3, 1, 0; 2016 GA_{166}, 3, 1, 0; 2016 GP_{183}, 3, 1, 0; 2016 GH_{190}, 3, 1, 0; 2016 GD_{193}, 3, 1, 0; 2016 GQ_{215}, 3, 1, 0; 2016 GE_{243}, 3, 1, 0; 2016 GN_{243}, 9, 2, 9; 2016 GL_{244}, 3, 1, 0; 2016 GE_{246}, 6, 1, 0; 2016 GT_{247}, 6, 2, 19; 2016 GV_{247}, 3, 1, 0; 2016 GC_{250}, 6, 2, 8; 2016 HQ_1, 3, 1, 0; 2016 HB_2, 3, 1, 0; 2016 HN_5, 3, 1, 0; 2016 HX_5, 3, 1, 0; 2016 HZ_9, 3, 1, 0; 2016 HV_{10}, 3, 1, 0; 2016 HM_{14}, 3, 1, 0; 2016 HE_{15}, 3, 1, 0; 2016 HB_{23}, 6, 2, 980; 2016 JP_6, 6, 1, 0; 2016 JO_{10}, 3, 1, 0; 2016 JA_{13}, 3, 1, 0; 2016 JC_{15}, 9, 1, 0; 2016 JW_{18}, 3, 1, 0; 2016 JG_{19}, 3, 1, 0; 2016 JQ_{19}, 3, 1, 0; 2016 JW_{19}, 3, 1, 0; 2016 JE_{21}, 3, 1, 0; 2016 JO_{23}, 3, 1, 0; 2016 JD_{24}, 3, 1, 0; 2016 JC_{30}, 6, 2, 6; 2016 JG_{30}, 6, 2, 1432; 2016 JO_{30}, 3, 1, 0; 2016 JS_{31}, 3, 1, 0; 2016 JA_{32}, 3, 1, 0; (68439), 3, 1, 0; (457524), 12, 4, 42; (461721), 8, 3, 512; (464942), 3, 1, 0; (465611), 3, 1, 0; (465827), 3, 1, 0; (466226), 6, 1, 0; (466556), 3, 1, 0; (466653), 3, 1, 0; (466739), 3, 1, 0; (466770), 2, 1, 0; (466788), 6, 1, 0; (466817), 3, 1, 0; (466874), 3, 1, 0; (466919), 3, 1, 0; (467007), 3, 1, 0; (467021), 3, 1, 0; (467046), 3, 1, 0; (467157), 3, 1, 0; (467184), 3, 1, 0; (467196), 3, 1, 0; (467230), 3, 1, 0; (467244), 3, 1, 0; (467252), 3, 1, 0; (467270), 3, 1, 0; (467283), 3, 1, 0; (467285), 3, 1, 0; (467287), 3, 1, 0; (467297), 6, 2, 438; *[899, 202, 0*, 2001/06/14–2006/12/12]*

645 Apache Point–Sloan Digital Sky Survey
Z. Ivezić, Department of Astrophysical Sciences, Peyton Hall, Princeton University, Princeton, NJ 08544, U.S.A. [ivezic@astro.princeton.edu]
Measurer S. Deen
2.5-m reflector + CCD
UCAC-1
1991 TT_{16}, 3, 1, 0; 2002 QF_{55}, 3, 1, 0; 2002 TR_{302}, 4, 2, 1413; 2002 TO_{365}, 2, 1, 0; 2003 YL_{179}, 9, 2, 1042; 2004 VM_{131}, 9, 3, 2570; 2005 WH, 3, 1, 0; 2006 RG_{58}, 2, 1, 0; 2007 GF_{75}, 6, 1, 0; 2007 TL_{422}, 9, 3, 544; 2009 TV_7, 3, 1, 0; 2009 UP_3, 3, 1, 0; 2009 WY_{44}, 2, 1, 0; 2009 XE_1, 9, 2, 3; 2011 EC_{10}, 2, 1, 0; 2011 KA_{32}, 2, 1, 0; 2013 KD_{13}, 2, 1, 0; 2013 LQ_7, 2, 1, 0; 2014 KY_{58}, 2, 1, 0; 2014 LT_{26}, 3, 1, 0; 2014 OB_{190}, 2, 1, 0; 2014 QD_{438}, 2, 1, 0; 2014 SG_{217}, 2, 1, 0; 2014 SG_{313}, 2, 1,

0; 2014 TE_{21}, 2, 1, 0; 2014 TN_{70}, 2, 1, 0; 2014 UD_{110}, 2, 1, 0; 2014 UT_{115}, 2, 1, 0; 2014 WE_{174}, 2, 1, 0; 2014 WK_{321}, 2, 1, 0; 2014 WU_{359}, 2, 1, 0; 2014 WR_{491}, 4, 1, 0; 2015 AO_{195}, 4, 2, 466; 2015 BC_1, 2, 1, 0; 2015 BK_7, 2, 1, 0; 2015 BN_{411}, 2, 1, 0; 2015 BF_{457}, 2, 1, 0; 2015 BX_{463}, 2, 1, 0; 2015 DG_{107}, 2, 1, 0; 2016 AQ_{13}, 2, 1, 0; 2016 CV_{259}, 2, 1, 0; 2016 CV_{261}, 2, 1, 0; 2016 DF_{18}, 2, 1, 0; 2016 EP_{37}, 2, 1, 0; 2016 EN_{66}, 2, 1, 0; 2016 EQ_{154}, 2, 1, 0; 2016 EH_{197}, 2, 1, 0; 2016 FB_{39}, 2, 1, 0; 2016 GX_{58}, 2, 1, 0; 2016 GT_{128}, 4, 2, 3; 2016 GA_{132}, 2, 1, 0; 2016 GT_{145}, 2, 1, 0; 2016 GX_{146}, 2, 1, 0; 2016 GW_{150}, 2, 1, 0; 2016 GO_{164}, 2, 1, 0; 2016 GM_{175}, 2, 1, 0; 2016 GR_{182}, 2, 1, 0; 2016 GV_{185}, 2, 1, 0; 2016 GP_{193}, 2, 1, 0; 2016 GQ_{215}, 4, 1, 0; 2016 GD_{233}, 2, 1, 0; 2016 GO_{239}, 2, 1, 0; 2016 GL_{240}, 2, 1, 0; 2016 GK_{242}, 2, 1, 0; 2016 GX_{244}, 2, 1, 0; 2016 GB_{246}, 2, 1, 0; 2016 GU_{246}, 2, 1, 0; 2016 GA_{247}, 2, 1, 0; 2016 GV_{247}, 2, 1, 0; 2016 GE_{249}, 2, 1, 0; 2016 HZ_1, 2, 1, 0; 2016 HA_5, 2, 1, 0; 2016 HX_5, 2, 1, 0; 2016 HC_7, 2, 1, 0; 2016 HE_7, 2, 1, 0; 2016 HK_{15}, 2, 1, 0; 2016 HB_{23}, 2, 1, 0; 2016 JG_5, 2, 1, 0; 2016 JH_5, 2, 1, 0; 2016 JU_8, 2, 1, 0; 2016 JS_9, 2, 1, 0; 2016 JH_{10}, 2, 1, 0; 2016 JJ_{10}, 2, 1, 0; 2016 JY_{11}, 2, 1, 0; 2016 JO_{12}, 2, 1, 0; 2016 JC_{13}, 2, 1, 0; 2016 JC_{15}, 2, 1, 0; 2016 JG_{19}, 2, 1, 0; 2016 JG_{21}, 2, 1, 0; 2016 JF_{25}, 2, 1, 0; 2016 JE_{26}, 6, 3, 111; 2016 JU_{30}, 2, 1, 0; 2016 JL_{32}, 2, 1, 0; 2016 JM_{32}, 2, 1, 0; (464683), 2, 1, 0; (465417), 4, 1, 0; (465506), 2, 1, 0; (465745), 2, 1, 0; (465918), 2, 1, 0; (465930), 2, 1, 0; (465992), 2, 1, 0; (466095), 2, 1, 0; (466169), 2, 1, 0; (466311), 2, 1, 0; (466522), 4, 2, 997; (466555), 2, 1, 0; (466570), 2, 1, 0; (466605), 2, 1, 0; (466721), 2, 1, 0; (466782), 2, 1, 0; (466788), 2, 1, 0; (466800), 2, 1, 0; (466805), 2, 1, 0; (466843), 2, 1, 0; (466844), 2, 1, 0; (466868), 2, 1, 0; (466968), 2, 1, 0; (467159), 4, 1, 0; (467160), 2, 1, 0; (467186), 2, 1, 0; (467203), 2, 1, 0; (467218), 2, 1, 0; (467226), 4, 1, 0; (467242), 2, 1, 0; (467280), 2, 1, 0; (467282), 2, 1, 0; (467283), 2, 1, 0; *[314, 127, 0*, 1998/09/19–2009/09/26]*

662 Lick

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F. Marchis, Dept. of Astronomy, University of California, 601 Campbell Hall, Berkeley, CA 94720, U.S.A. [fmarchis@berkeley.edu]
Observers E. Chiang, A. B. Jordan, M. W. Buie
3-m telescope + CCD
USNO-A2.0, global solutions
2016 JF_9, 2, 1, 0; *[2, 1, 0*, 2002/03/15]*

673 Table Mountain Observatory, Wrightwood

W. M. Owen, Jr., Jet Propulsion Laboratory 301-150, 4800 Oak Grove Drive, Pasadena, CA 91109-8099, U.S.A. [wmo@wansor.jpl.nasa.gov] (1)
J. Pittichová, Jet Propulsion Laboratory, 4800 Oak Grove Drive, MS 183-501, Pasadena, CA 91109, U.S.A. (10)
Observers W. M. Owen Jr., A. G. Carr, M. S. Shiffer, J. Pittichová
Measurers W. M. Owen Jr., J. Pittichová, S. Chesley
0.61-m $f/16$ reflector + CCD, 1.0-m $f/15$ reflector + CCD
UCAC-4, PPMXL
{10} 2016 JJ_{34}, 2, 1, 0; *[2, 1, 0*, 2016/05/17]*

{1} (5), 5, 1, 0; (8), 2, 1, 0; (12), 3, 1, 0; (27), 3, 1, 0; (38), 4, 2, 13; (46), 9, 3, 13; (50), 10, 4, 26; (58), 2, 1, 0; (78), 2, 1, 0; (88), 9, 3, 14; (89), 3, 1, 0; (90), 6, 3, 14; (99), 11, 4, 26; (126), 4, 2, 13; (139), 15, 5, 26; (150), 8, 3, 14; (171), 6, 2, 13; (207), 12, 5, 26; (222), 4, 2, 1; (233), 2, 1, 0; (241), 3, 1, 0; (293), 2, 1, 0; (302), 6, 3, 14; (307), 6, 2, 26; (335), 4, 2, 13; (337), 2, 1, 0; (350), 2, 1, 0; (358), 6, 3, 13; (381), 4, 2, 13; (412), 3, 1, 0; (425), 4, 2, 14; (449), 4, 2, 14; (464), 2, 1, 0; (485), 3, 1, 0; (505), 2, 1, 0; (508), 4, 2, 13; (545), 5, 1, 0; (554), 2, 1, 0; (567), 8, 4, 26; (583), 6, 3, 13; (588), 2, 1, 0; (602), 2, 1, 0; (615), 6, 3, 14; (617), 3, 1, 0; (628), 4, 2, 14; (643), 4, 2, 14; (654), 11, 4, 26; (702), 3, 1, 0; (712), 6, 3, 13; (744), 8, 4, 26; (747), 2, 1, 0; (755), 6, 3, 14; (776), 6, 2, 14; (866), 3, 1, 0; (972), 4, 2, 14; (977), 2, 1, 0; (986), 6, 2, 14; (1021), 7, 3, 14; (1086), 2, 1, 0; (1109), 2, 1, 0; (1240), 2, 1, 0; (1254), 2, 1, 0; (1256), 4, 2, 1; (1268), 7, 3, 2; (1567), 2, 1, 0; (2363), 2, 1, 0; (2634), 6, 3, 14; (2731), 4, 2, 1; (2920), 3, 1, 0; (3063), 4, 2, 13; (3564), 9, 2, 1; (134340), 4, 1, 0; *[336, 72, 0*, 2016/04/21–2016/05/17]*

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, R. A. Mastaler, A. F. Tubbiolo, M. T. Read
0.9-m $f/3$ reflector + CCD
USNO-B1.0

1996 AW_1, 2, 1, 0; 1998 SH_2, 3, 1, 0; 1999 TS_{130}, 3, 1, 0; 1999 TS_{212}, 3, 1, 0; 2000 AF_{205}, 3, 1, 0; 2001 SH_{208}, 3, 1, 0; 2001 UQ_{58}, 3, 1, 0; 2001 WO_4, 3, 1, 0; 2001 WF_{91}, 3, 1, 0; 2002 AQ_5, 3, 1, 0; 2002 EE_{76}, 3, 1, 0; 2002 LN_{63}, 3, 1, 0; 2002 NJ_{71}, 3, 1, 0; 2002 QX_3, 6, 2, 6; 2002 QS_{38}, 3, 1, 0; 2002 QB_{153}, 3, 1, 0; 2002 RT_{291}, 3, 1, 0; 2002 TT_{97}, 6, 2, 1; 2002 TR_{302}, 12, 4, 3673; 2002 TB_{326}, 3, 1, 0; 2002 TN_{330}, 3, 1, 0; 2002 TY_{330}, 3, 1, 0; 2002 TD_{331}, 3, 1, 0; 2002 TD_{340}, 15, 5, 4037; 2002 TB_{341}, 6, 2, 2368; 2002 TA_{361}, 12, 4, 4281; 2002 TO_{365}, 3, 1, 0; 2002 US_{43}, 3, 1, 0; 2003 BH_{76}, 3, 1, 0; 2003 GJ_{51}, 3, 1, 0; 2003 KO_2, 8, 3, 8; 2003 MF_7, 6, 2, 5; 2003 QJ_9, 3, 1, 0; 2003 ST_{128}, 3, 1, 0; 2003 SH_{233}, 3, 1, 0; 2003 YA, 3, 1, 0; 2004 LG, 6, 2, 4; 2004 PY_{47}, 3, 1, 0; 2004 RR_{57}, 3, 1, 0; 2004 RJ_{97}, 6, 2, 560; 2004 RK_{332}, 3, 1, 0; 2004 TW_{126}, 3, 1, 0; 2004 TM_{137}, 3, 1, 0; 2004 TA_{161}, 3, 1, 0; 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(467157), 6, 2, 2943; (467160), 12, 4, 7572; (467163), 6, 2, 511; (467168), 3, 1, 0; (467172), 3, 1, 0; (467174), 3, 1, 0; (467176), 6, 2, 2212; (467177), 3, 1, 0; (467179), 3, 1, 0; (467182), 6, 2, 4187; (467185), 3, 1, 0; (467186), 3, 1, 0; (467191), 3, 1, 0; (467193), 3, 1, 0; (467195), 12, 4, 4191; (467199), 6, 2, 1259; (467200), 3, 1, 0; (467202), 3, 1, 0; (467203), 3, 1, 0; (467204), 3, 1, 0; (467206), 3, 1, 0; (467209), 6, 2, 496; (467212), 9, 3, 3396; (467213), 3, 1, 0; (467218), 6, 2, 2; (467237), 3, 1, 0; (467239), 3, 1, 0; (467247), 3, 1, 0; (467248), 3, 1, 0; (467250), 6, 2, 442; (467251), 3, 1, 0; (467254), 3, 1, 0; (467255), 3, 1, 0; (467261), 6, 2, 1505; (467263), 6, 2, 3643; (467264), 6, 2, 1440; (467268), 6, 2, 499; (467270), 6, 2, 443; (467272), 3, 1, 0; (467277), 3, 1, 0; (467280), 6, 2, 1787; (467281), 3, 1, 0; (467283), 12, 4, 1319; (467285), 9, 3, 4549; (467287), 3, 1, 0; (467288), 9, 3, 29; (467291), 3, 1, 0; (467292), 6, 2, 8; (467297), 6, 2,

861; (467298), 9, 3, 3262; (467301), 6, 2, 930; (467302), 2, 1, 0; (467303), 6, 2, 7; (467304), 15, 4, 7688; (467305), 3, 1, 0; *[30516, 7774, 53*, 1991/10/07–2016/05/19]*

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R. S. McMillan, Lunar and Planetary Laboratory, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu] (28)
Observers T. H. Bressi, J. V. Scotti
2.3-m $f/9$ reflector + CCD
USNO-B1.0

{21} 2014 VV_{15}, 2, 1, 0; *[2, 1, 0*, 2004/02/12]*

{23} 2016 JG_{21}, 2, 1, 0; 2016 JA_{25}, 2, 1, 0; (465798), 2, 1, 0; (466640), 3, 1, 0; *[9, 4, 0*, 2005/12/02–2006/12/21]*

{1} 2002 TL_{324}, 2, 1, 0; 2008 TM_{187}, 2, 1, 0; 2014 QO_{397}, 2, 1, 0; 2015 DO_{151}, 2, 1, 0; 2016 GP_{140}, 3, 1, 0; 2016 GE_{158}, 2, 1, 0; 2016 GP_{193}, 3, 1, 0; 2016 GM_{225}, 2, 1, 0; 2016 GE_{249}, 2, 1, 0; 2016 HY, 3, 1, 0; 2016 HR_{18}, 2, 1, 0; 2016 JW_{19}, 2, 1, 0; 2016 JS_{31}, 4, 2, 30; 2016 JN_{32}, 2, 1, 0; (466736), 2, 1, 0; (466814), 2, 1, 0; (466864), 2, 1, 0; (466870), 2, 1, 0; (467230), 2, 1, 0; *[43, 19, 0*, 2000/02/05–2015/04/15]*

{3} 2016 JY_{23}, 3, 1, 0; *[3, 1, 0*, 2000/12/21]*

{28} 1998 SH_2, 4, 2, 1; 2005 HM_3, 3, 1, 0; 2006 JF_{42}, 3, 1, 0; 2007 VZ_{137}, 3, 1, 0; 2013 GF_{69}, 3, 1, 0; 2013 PW_{20}, 2, 1, 0; 2014 KQ_{76}, 3, 1, 0; 2014 PW_{67}, 3, 1, 0; 2014 YQ_{15}, 6, 2, 1; 2015 AR_{45}, 3, 1, 0; 2015 HA_1, 6, 2, 1; 2015 UK_{52}, 3, 1, 0; 2016 CL_{32}, 3, 1, 0; 2016 EA_{27}, 2, 1, 0; 2016 EK_{27}, 3, 1, 0; 2016 EZ_{157}, 3, 1, 0; 2016 FF_{13}, 2, 1, 0; 2016 FC_{15}, 6, 2, 2; 2016 GJ_3, 3, 1, 0; 2016 GW_{216}, 3, 1, 0; 2016 GR_{220}, 3, 1, 0; 2016 GB_{241}, 9, 4, 3; 2016 GD_{241}, 6, 2, 1; 2016 HF, 3, 1, 0; 2016 HK, 3, 1, 0; 2016 HM, 3, 1, 0; 2016 HP, 3, 1, 0; 2016 HQ, 3, 1, 0; 2016 HM_2, 3, 1, 0; 2016 HP_{19}, 3, 1, 0; 2016 JK_{34}, 3, 1, 0; 2016 JL_{34}, 3, 1, 0; 2016 KB, 3, 1, 0; (371660), 3, 1, 0; (462775), 3, 1, 0; (463664), 3, 1, 0; *[124, 36, 0*, 2016/04/18–2016/05/19]*

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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

2010 RE_{42}, 4, 1, 0; 2012 BX_4, 4, 1, 0; 2012 MR_{11}, 3, 1, 0; 2012 XZ_{134}, 4, 1, 0; 2014 SS_{210}, 4, 1, 0; 2014 ST_{262}, 4, 1, 0; 2014 TM_{82}, 4, 1, 0; 2014 UB_4, 4, 1, 0; 2014 WD_{216}, 4, 1, 0; 2015 AL_{50}, 4, 1, 0; 2015 AC_{243}, 4, 1, 0; 2015 BC_1, 4, 1, 0; 2016 ER_{201}, 3, 1, 0; 2016 EC_{203}, 4, 1, 0; 2016 GB_{135}, 3, 1, 0; 2016 GV_{137}, 4, 1, 0; 2016 GZ_{145}, 4, 1, 0; 2016 GF_{230}, 4, 1, 0; 2016 GU_{246}, 4, 1, 0; 2016 HE_1, 4, 1, 0; 2016 HN_5, 4, 1, 0; 2016 JS_9, 4, 1, 0; 2016 JW_{18}, 4, 1, 0; 2016 JA_{30}, 4, 1, 0; (466626), 7, 2, 1794; (466675), 4, 1, 0; (466927), 4, 1, 0; (467101), 4, 1, 0; (467190), 4, 1, 0; (467198), 4, 1, 0; (467294), 4, 1, 0; *[124, 31, 0*, 1998/10/20–2007/12/05]*

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Observers R. G. Matheny, R. A. Kowalski, J. A. Johnson, D. C. Fuls, G. J. Leonard
Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly
0.68-m Schmidt + CCD
UCAC-4

2001 FL_{140}, 4, 1, 0; 2001 HE_{27}, 8, 2, 9; 2001 QL_{92}, 10, 3, 2965; 2001 UQ_{58}, 3, 1, 0; 2002 AQ_5, 4, 1, 0; 2002 CX_{58}, 8, 1, 0; 2002 GN_{191}, 4, 1, 0; 2002 JA_9, 8, 2, 5; 2002 KY_3, 8, 2, 24; 2002 NO_{78}, 3, 1, 0; 2002 PF_{23}, 3, 1, 0; 2002 QS_{151}, 4, 1, 0; 2002 RE_{200}, 3, 1, 0; 2002 RS_{291}, 14, 3, 11; 2003 BH_{76}, 12, 3, 11; 2003 DL_{15}, 11, 3, 11; 2003 EO_{41}, 2, 1, 0; 2003 FO_{21}, 10, 3, 11; 2003 FH_{42}, 4, 1, 0; 2003 FX_{65}, 3, 1, 0; 2003 FS_{103}, 3, 1, 0; 2003 GY_{43}, 6, 2, 11; 2003 GJ_{51}, 4, 1, 0; 2003 HR_{52}, 7, 2, 6; 2003 MF_1, 7, 1, 0; 2003 QS_{94}, 3, 1, 0; 2003 YA, 12, 3, 3560; 2004 RU_{79}, 3, 1, 0; 2004 RD_{332}, 7, 2, 8; 2004 XU_{33}, 4, 1, 0; 2005 EH_{89}, 4, 1, 0; 2005 EN_{98}, 4, 1, 0; 2005 EQ_{138}, 8, 2, 7; 2005 ED_{170}, 10, 3, 11; 2005 EE_{170}, 3, 1, 0; 2005 FV_{14}, 4, 1, 0; 2005 GJ_{19}, 3, 1, 0; 2005 GW_{124}, 3, 1, 0; 2005 JY_{36}, 4, 1, 0; 2005 JC_{46}, 8, 2, 16; 2005 JZ_{63}, 3, 1, 0; 2005 JT_{136}, 2, 1, 0; 2005 JW_{165}, 3, 1, 0; 2005 PX_{12}, 12, 3, 2958; 2005 UQ_{121}, 3, 1, 0; 2005 VJ_{52}, 11, 3, 2391; 2006 BX_{97}, 12, 3, 33; 2006 HV_5, 4, 1, 0; 2006 KK_{13}, 4, 1, 0; 2006 KO_{47}, 4, 1, 0; 2006 KA_{75}, 4, 1, 0; 2006 KR_{76}, 7, 2, 9; 2006 PP_{20}, 3, 1, 0; 2006 QF_{30}, 4, 1, 0; 2006 QA_{31}, 4, 1, 0; 2006 RG_{58}, 4, 1, 0; 2006 SD_{151}, 11, 3, 12; 2006 WR_{150}, 5, 2, 4; 2007 BO_{11}, 4, 1, 0; 2007 BS_{17}, 4, 1, 0; 2007 CY_{26}, 4, 1, 0; 2007 CE_{65}, 4, 1, 0; 2007 DJ_{116}, 4, 1, 0; 2007 DO_{116}, 2, 1, 0; 2007 EB_{85}, 7, 2, 10; 2007 EW_{165}, 4, 1, 0; 2007 GU_{27}, 8, 2, 11; 2007 GH_{31}, 4, 1, 0; 2007 GT_{61}, 4, 1, 0; 2007 HN, 4, 1, 0; 2007 TJ_{51}, 2, 1, 0; 2007 UK_{74}, 3, 1, 0; 2007 VX_{125}, 3, 1, 0; 2007 VM_{288}, 4, 1, 0; 2008 GO_{128}, 3, 1, 0; 2008 HN_7, 3, 1, 0; 2008 KL_{18}, 4, 1, 0; 2008 QQ_{27}, 15, 3, 40; 2008 QU_{45}, 3, 1, 0; 2008 UP_{106}, 6, 2, 9; 2008 YD_{66}, 11, 3, 1860; 2008 YH_{99}, 2, 1, 0; 2009 AG_1, 2, 1, 0; 2009 DL_{46}, 8, 2, 6; 2009 FX_7, 2, 1, 0; 2009 FT_8, 4, 1, 0; 2009 FA_{57}, 8, 2, 19; 2009 GW, 10, 3, 11; 2009 HE_{82}, 4, 1, 0; 2009 KY_3, 3, 1, 0; 2009 KA_{10}, 3, 1, 0; 2009 SR_{143}, 3, 1, 0; 2009 UB_{143}, 4, 1, 0; 2009 UY_{149}, 3, 1, 0; 2009 WK_8, 5, 2, 3; 2009 WZ_{33}, 8, 2, 9; 2009 WK_{75}, 8, 2, 928; 2009 WN_{262}, 8, 2, 7; 2010 AK_{93}, 6, 2, 7; 2010 BM_{39}, 3, 1, 0; 2010 BC_{50}, 2, 1, 0; 2010 EX_{20}, 4, 1, 0; 2010 FB_7, 11, 2, 8; 2010 FL_{26}, 8, 2, 7; 2010 FU_{57}, 8, 2, 7; 2010 FC_{87}, 6, 2, 11; 2010 GU_{96}, 6, 2, 7; 2010 GO_{172}, 2, 1, 0; 2010 HB_{62}, 2, 1, 0; 2010 KQ_{64}, 4, 1, 0; 2010 NW_1, 4, 1, 0; 2010 OG_{107}, 4, 1, 0; 2010 RE_{42}, 4, 1, 0; 2010 RM_{50}, 4, 1, 0; 2010 UN, 4, 1, 0; 2010 VO_{104}, 3, 1, 0; 2010 VL_{106}, 4, 1, 0; 2010 VU_{198}, 9, 3, 19; 2010 VN_{206}, 8, 2, 9; 2010 XN_{35}, 4, 1, 0; 2011 AB_{24}, 10, 3, 11; 2011 BP_{79}, 4, 1, 0; 2011 BL_{86}, 4, 1, 0; 2011 BR_{93}, 4, 1, 0; 2011 CR_{47}, 2, 1, 0; 2011 EC_{10}, 3, 1, 0; 2011 EK_{20}, 7, 2, 4; 2011 EF_{31}, 3, 1, 0; 2011 ER_{42}, 4, 1, 0; 2011 EB_{46}, 3, 1, 0; 2011 EK_{69}, 2, 1, 0; 2011 ET_{73}, 10, 3, 11; 2011 ES_{86}, 4, 1, 0; 2011 FE_{23}, 8, 2, 3; 2011 FD_{26}, 7, 2, 6; 2011 FR_{41}, 11, 3, 13; 2011 FN_{155}, 3, 1, 0; 2011 GW_{35}, 4, 1, 0; 2011 GA_{74}, 4, 1, 0; 2011 HX_8, 3, 1, 0; 2011 HL_{36}, 4, 1, 0; 2011 HD_{39}, 3, 1, 0; 2011 HP_{49}, 4, 1, 0; 2011 HA_{62}, 8, 3, 36; 2011 JG_9, 4, 1, 0; 2011 KJ_8, 8, 2, 6; 2011 KX_8, 5, 2, 2; 2011 KM_{22}, 3, 1, 0; 2011 KU_{29}, 2, 1, 0; 2011 KT_{30}, 7, 2, 7; 2011 KK_{36}, 3, 1, 0; 2011 LG_{14}, 7, 2, 11; 2011 SO_{147}, 10, 2, 11; 2011 UB_{63}, 4, 1, 0; 2011 WK_{46}, 3, 1, 0; 2011 YO_{11}, 3, 1, 0; 2011 YJ_{26}, 20, 6, 93; 2012 BX_4, 17, 5, 4075; 2012 BS_{69}, 4, 1, 0; 2012 BG_{72}, 6, 2, 9; 2012 BA_{73}, 7, 2, 7; 2012 BP_{122}, 8, 2, 7; 2012 CK_8, 2, 1, 0; 2012 CB_{16}, 3, 1, 0; 2012 DY_{20}, 3, 1, 0; 2012 DQ_{37}, 4, 1, 0; 2012 DE_{42}, 6, 2, 7; 2012 DX_{64}, 7, 2, 17; 2012 DW_{79}, 7, 2, 10; 2012 DM_{81}, 3, 1, 0; 2012 FA_{15}, 8, 2, 12; 2012 FT_{40}, 3, 1, 0; 2012 FW_{45}, 3, 1, 0; 2012 GH_2, 4, 1, 0; 2012 HG, 4, 1, 0; 2012 HV_8, 7, 2, 6; 2012 HX_9, 3, 1, 0; 2012 HB_{12}, 8, 2, 6; 2012 HO_{27}, 2, 1, 0; 2012 HT_{34}, 4, 1, 0; 2012 HY_{41}, 7, 2, 8; 2012 HX_{48}, 3, 1, 0; 2012 HQ_{51}, 3, 1, 0; 2012 HH_{59}, 3, 1, 0; 2012 HL_{64}, 8, 3, 11; 2012 HV_{65}, 7, 2, 14; 2012 HX_{68}, 6, 2, 7; 2012 HU_{77}, 3, 1, 0; 2012 HU_{82}, 15, 4, 1511; 2012 JT_{10}, 3, 1, 0; 2012 JF_{13}, 3, 1, 0; 2012 JR_{17}, 3, 1, 0; 2012 JJ_{19}, 4, 1, 0; 2012 JV_{19}, 3, 1, 0; 2012 JZ_{20}, 3, 1, 0; 2012 JR_{23}, 7, 2, 11; 2012 JS_{23}, 9, 3, 21; 2012 JH_{24}, 5, 2, 11; 2012 JK_{26}, 3, 1, 0; 2012 JO_{32}, 10, 3, 11; 2012 KL, 4, 1, 0; 2012 KM_{27}, 3, 1, 0; 2012 KS_{45}, 2, 1, 0; 2012 KE_{49}, 9, 3, 9; 2012 KF_{49}, 9, 3, 28; 2012 KV_{49}, 2, 1, 0; 2012 KY_{49}, 3, 1, 0; 2012 KT_{50}, 7, 2, 9; 2012 KH_{51}, 3, 1, 0; 2012 LB_4, 8, 2, 7; 2012 LK_6, 5, 2, 9; 2012 LA_8, 11, 3, 34; 2012 LB_9, 4, 1, 0; 2012 LJ_{13}, 8, 2, 8; 2012 LN_{15}, 6, 2, 7; 2012 LM_{17}, 8, 2, 10; 2012 LW_{17}, 11, 3, 8; 2012 ME_5, 15, 2, 11; 2012 MS_8, 11, 3, 11; 2012 ME_9, 3, 1, 0; 2012 MR_{11}, 8, 2, 11; 2012 MB_{16}, 8, 2, 10; 2012 OH_1, 12, 3, 15; 2012 PB_9, 2, 1, 0; 2012 PX_{25}, 3, 1, 0; 2012 TM_3, 3, 1, 0; 2012 TL_{60}, 3, 1, 0; 2012 TV_{233}, 3, 1, 0; 2012 TS_{237}, 8, 2, 5; 2012 UT_{20}, 3, 1, 0; 2012 VH_{26}, 3, 1, 0; 2012 VE_{32}, 2, 1, 0; 2012 XE_{56}, 9, 3, 15; 2012 XZ_{134}, 23, 4, 2969; 2013 AW_{63}, 6, 2, 9; 2013 BP_7, 8, 2, 10; 2013 BX_{17}, 4, 1, 0; 2013 BB_{19}, 9, 3, 12; 2013 CX_{37}, 4, 1, 0; 2013 CH_{48}, 3, 1, 0; 2013 CG_{182}, 3, 1, 0; 2013 EA_5, 3, 1, 0; 2013 FC, 5, 2, 6; 2013 MT_4, 3, 1, 0; 2013 MM_9, 2, 1, 0; 2013 PM_5, 10, 3, 10; 2013 PS_5, 4, 1, 0; 2013 PX_{16}, 4, 1, 0; 2013 PW_{20}, 6, 2, 9; 2013 PT_{25}, 4, 1, 0; 2013 PZ_{27}, 3, 1, 0; 2013 PE_{55}, 2, 1, 0; 2013 QD_{28}, 9, 3, 12; 2013 QP_{44}, 3, 1, 0; 2013 QP_{58}, 3, 1, 0; 2013 QL_{68}, 3, 1, 0; 2013 QO_{73}, 3, 1, 0; 2013 RM_{24}, 12, 3, 13; 2013 RW_{34}, 4, 1, 0; 2013 RJ_{60}, 3, 1, 0; 2013 RR_{73}, 3, 1, 0; 2013 RX_{75}, 3, 1, 0; 2013 RZ_{78}, 2, 1, 0; 2013 RF_{94}, 8, 2, 9; 2013 SG_{29}, 8, 2, 7; 2013 SZ_{71}, 4, 1, 0; 2013 SQ_{75}, 4, 1, 0; 2013 SW_{78}, 3, 1, 0; 2013 TS_{14}, 4, 1, 0; 2013 TY_{33}, 12, 3, 10; 2013 TS_{73}, 5, 2, 13; 2013 TZ_{78}, 4, 1, 0; 2013 TA_{141}, 2, 1, 0; 2013 TK_{141}, 3, 1, 0; 2013 WH_{22}, 3, 1, 0; 2013 WE_{35}, 6, 2, 12; 2013 WV_{35}, 4, 1, 0; 2013 WT_{45}, 8, 2, 5; 2013 WB_{68}, 3, 1, 0; 2013 WM_{89}, 6, 2, 14; 2014 KZ_{44}, 3, 1, 0; 2014 OB_{190}, 2, 1, 0; 2014 OH_{198}, 3, 1, 0; 2014 QP_{28}, 4, 1, 0; 2014 QS_{295}, 2, 1, 0; 2014 QH_{421}, 3, 1, 0; 2014 QL_{431}, 4, 1, 0; 2014 QD_{438}, 4, 1, 0; 2014 RF, 7, 2, 9; 2014 RT_{12}, 2, 1, 0; 2014 SB_{144}, 2, 1, 0; 2014 SS_{210}, 8, 2, 1404; 2014 ST_{214}, 5, 1, 0;

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(459156), 10, 3, 16; (459192), 7, 2, 7; (459207), 6, 2, 11; (459229), 8, 2, 9; (459307), 4, 1, 0; (459329), 8, 2, 11; (459331), 3, 1, 0; (459334), 7, 2, 8; (459640), 3, 1, 0; (459863), 4, 1, 0; (460453), 13, 3, 15; (461007), 4, 1, 0; (461025), 6, 2, 7; (461037), 7, 2, 4; (461096), 3, 1, 0; (461114), 3, 1, 0; (461378), 6, 2, 10; (461419), 4, 1, 0; (461429), 1, 1, 0; (461446), 8, 2, 7; (461448), 12, 3, 11; (461504), 5, 2, 11; (461563), 4, 1, 0; (461598), 4, 1, 0; (461634), 11, 3, 14; (461636), 7, 2, 7; (461638), 9, 3, 15; (461639), 2, 1, 0; (461646), 4, 1, 0; (461651), 7, 2, 4; (461655), 8, 2, 9; (461671), 2, 1, 0; (461673), 8, 2, 11; (461721), 3, 1, 0; (461783), 10, 3, 15; (461788), 4, 1, 0; (461806), 3, 1, 0; (461892), 4, 1, 0; (461896), 4, 1, 0; (461910), 7, 2, 4; (461918), 8, 2, 11; (461968), 4, 1, 0; (461974), 3, 1, 0; (462039), 10, 3, 15; (462049), 10, 3, 11; (462067), 11, 3, 12; (462068), 9, 3, 11; (462073), 4, 1, 0; (462079), 4, 1, 0; (462082), 11, 3, 11; (462094), 4, 1, 0; (462097), 4, 1, 0; 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705 Apache Point

K. Nault, Adler Planetarium, 1300 S. Lake Shore Dr., Chicago, IL 60605, U.S.A. [knault@adlerplanetarium.org] (11)
Observers K. Nault, M. Hammergren, M. Brucker
3.5-m $f/10$ reflector + CCD
PPMXL

2010 FX_9, 3, 1, 0; 2010 TC_{47}, 3, 1, 0; 2011 AN_{16}, 3, 1, 0; 2011 DC_{15}, 3, 1, 0; 2014 GF_{50}, 5, 2, 1; 2014 KZ_{45}, 6, 2, 1; 2014 QZ_{364}, 3, 1, 0; 2014 SC_{142}, 3, 1, 0; 2014 TX_{32}, 3, 1, 0; 2015 KJ_{157}, 3, 1, 0; 2015 KR_{157}, 2, 1, 0; 2015 TV_{144}, 2, 1, 0; 2015 UY_{66}, 3, 1, 0; 2015 XP_{55}, 3, 1, 0; 2015 YB_1, 3, 1, 0; 2016 AO_{164}, 3, 1, 0; 2016 CS_{246}, 3, 1, 0; 2016 EA_{27}, 3, 1, 0; 2016 EU_{84}, 3, 1, 0; 2016 EV_{84}, 3, 1, 0; 2016 EE_{158}, 3, 1, 0; 2016 FW_3, 3, 1, 0; 2016 FM_{13}, 3, 1, 0; 2016 FU_{13}, 3, 1, 0; 2016 FD_{15}, 3, 1, 0; 2016 GB_1, 3, 1, 0; 2016 GL_2, 3, 1, 0; 2016 GS_2, 3, 1, 0; 2016 GE_{134}, 3, 1, 0; 2016 GM_{135}, 3, 1, 0; 2016 GK_{206}, 3, 1, 0; 2016 GF_{207}, 2, 1, 0; 2016 GF_{216}, 3, 1, 0; 2016 GP_{220}, 3, 1, 0; 2016 GR_{220}, 3, 1, 0; 2016 GS_{220}, 3, 1, 0; 2016 GV_{220}, 3, 1, 0; 2016 GZ_{220}, 3, 1, 0; 2016 GB_{221}, 3, 1, 0; 2016 GT_{221}, 3, 1, 0; 2016 GW_{221}, 3, 1, 0; 2016 GZ_{240}, 3, 1, 0; 2016 GH_{241}, 6, 2, 11; 2016 GC_{252}, 3, 1, 0; 2016 HB, 3, 1, 0; 2016 HF, 3, 1, 0; 2016 HK, 6, 2, 5; 2016 HM, 3, 1, 0; 2016 HN, 3, 1, 0; 2016 HR, 3, 1, 0; 2016 HO_2, 3, 1, 0; 2016 HM_3, 3, 1, 0; 2016 HO_3, 3, 1, 0; 2016 HX_3, 3, 1, 0; 2016 HT_6, 3, 1, 0; 2016 HM_{18}, 3, 1, 0; 2016 HD_{19}, 3, 1, 0; 2016 HE_{19}, 3, 1, 0; 2016 HF_{19}, 3, 1, 0; 2016 HM_{19}, 3, 1, 0; 2016 HN_{19}, 3, 1, 0; 2016 HH_{23}, 3, 1, 0; 2016 JA, 3, 1, 0; 2016 JG, 6, 2, 6; 2016 JH, 3, 1, 0; 2016 JM, 6, 1, 0; 2016 JN, 3, 1, 0; 2016 JV, 3, 1, 0; 2016 JO_5, 2, 1, 0; 2016 JQ_5, 3, 1, 0; 2016 JT_5, 3, 1, 0; 2016 JX_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 3, 1, 0; 2016 JA_6, 2, 1, 0; 2016 JK_6, 3, 1, 0; 2016 JL_6, 3, 1, 0; 2016 JN_6, 3, 1, 0; 2016 JY_{11}, 6, 1, 0; 2016 JJ_{12}, 6, 2, 10; 2016 JP_{15}, 3, 1, 0; 2016 JF_{17}, 3, 1, 0; 2016 JG_{17}, 6, 2, 8; 2016 JL_{17}, 3, 1, 0; 2016 JM_{17}, 3, 1, 0; 2016 JN_{17}, 3, 1, 0; 2016 JS_{17}, 3, 1, 0; 2016 JX_{17}, 3, 1, 0; 2016 JY_{17}, 3, 1, 0; 2016 JD_{18}, 3, 1, 0; 2016 JH_{18}, 3, 1, 0; 2016 JM_{18}, 3, 1, 0; 2016 JR_{18}, 3, 1, 0; 2016 JS_{18}, 3, 1, 0; 2016 JL_{24}, 3, 1, 0; 2016 JV_{24}, 3, 1, 0; 2016 JU_{28}, 3, 1, 0; 2016 JB_{29}, 3, 1, 0; 2016 JG_{29}, 3, 1, 0; 2016 JH_{29}, 3, 1, 0; 2016 JX_{33}, 3, 1, 0; 2016 JA_{34}, 6, 2, 2; 2016 JB_{34}, 6, 2, 2; 2016 JC_{34}, 6, 2, 2; 2016 JD_{34}, 3, 1, 0; 2016 JE_{34}, 4, 1, 0; 2016 JJ_{34}, 3, 1, 0; 2016 JK_{34}, 3, 1, 0; 2016 JL_{34}, 3, 1, 0; 2016 JN_{34}, 3, 1, 0; 2016 JC_{38}, 3, 1, 0; (4769), 2, 1, 0; (5432), 3, 1, 0; (5632), 3, 1, 0; (5863), 3, 1, 0; (6611), 3, 1, 0; (9400), 3, 1, 0; (14758), 3, 1, 0; (18172), 3, 1, 0; (23187), 3, 1, 0; (32981), 3, 1, 0; (35298), 3, 1, 0; (77353), 3, 1, 0; (100937), 3, 1, 0; (107100), 3, 1, 0; (137437), 3, 1, 0; (148151), 3, 1, 0; (183140), 3, 1, 0; (190278), 3, 1, 0; (215862), 3, 1, 0; (248590), 3, 1, 0; (325953), 3, 1, 0; (326294), 3, 1, 0; (329039), 3, 1, 0; (336985), 3, 1, 0; (373217), 3, 1, 0; (408034), 3, 1, 0; (411201), 3, 1, 0; (425433), 3, 1, 0; (435613), 3, 1, 0; (450160), 3, 1, 0; *[453, 141, 0∗, 2016/03/12–2016/05/17]*

718 Tooele

P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt Lake City, UT 84111-1590, U.S.A. [paw@digis.net]
0.35-m $f/5.5$ Schmidt-Cassegrain + CCD
UCAC-2

2016 JW_5, 4, 1, 0; *[4, 1, 0∗, 2016/05/04]*

754 Yerkes Observatory, Williams Bay

V. Hoette, Univ. of Chicago Yerkes Observatory, 373 West Geneva Street, Williams Bay, WI 53191, U.S.A. [vhoette@yerkes.uchicago.edu]
Observers V. L. Hoette, A. W. Puckett, T. A. Rector
Measurers V. L. Hoette, A. W. Puckett, T. A. Rector, K. Kade
1.02-m $f/8.04$ Cassegrain reflector + CCD
PPMXL

2016 GS_2, 3, 1, 0; *[3, 1, 0∗, 2016/04/16]*

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)
O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [ovidiuv@astroclubul.org] (21)
R. Holmes, 7168 NCR 2750E, Ashmore, IL 61912, U.S.A. [ari@astro-research.org] (32)
Observers T. Linder, R. Holmes
0.61-m $f/6.5$ astrograph + CCD, 0.41-m $f/11$ Ritchey-Chrétien + CCD
UCAC-3

{15} (466932), 2, 1, 0; *[2, 1, 0∗, 2005/08/08]*

{21} 2016 GH_8, 6, 1, 0; *[6, 1, 0∗, 2011/06/04]*

{1} 2014 SM_{284}, 2, 1, 0; 2014 UL_{97}, 2, 1, 0; 2014 WH_{121}, 2, 1, 0; 2014 WD_{228}, 2, 1, 0; 2015 BX_{118}, 2, 1, 0; 2016 GD_{36}, 2, 1, 0; 2016 GW_{133}, 2, 1, 0; 2016 HS_1, 2, 1, 0; 2016 HZ_7, 2, 1, 0; 2016 HM_{13}, 2, 1, 0; 2016 HQ_{16}, 2, 1, 0; 2016 JJ_9, 2, 1, 0; 2016 JG_{23}, 2, 1, 0; 2016 JU_{29}, 2, 1, 0; (466611), 2, 1, 0; (466652), 2, 1, 0; (466736), 4, 2, 88; (466785), 2, 1, 0; (466820), 2, 1, 0; (466823), 2, 1, 0; (466826), 2, 1, 0; (467270), 2, 1, 0; *[46, 22, 0∗, 2000/08/25–2005/05/10]*

{3} 2014 TL_6, 10, 1, 0; *[10, 1, 0∗, 2001/03/26]*

{32} 1990 UP, 3, 1, 0; 2002 LT_{38}, 3, 1, 0; 2003 GR, 4, 1, 0; 2006 JF_{42}, 3, 1, 0; 2008 AV_{28}, 8, 2, 1; 2010 RL_{79}, 3, 1, 0; 2011 KR_{12}, 5, 1, 0; 2013 HJ_{19}, 5, 1, 0; 2014 KZ_{44}, 5, 1, 0; 2015 FD_{341}, 3, 1, 0; 2015 PQ_{291}, 10, 2, 2; 2015 TJ_1, 7, 1, 0; 2015 WH_2, 4, 1, 0; 2015 XR_{128}, 3, 1, 0; 2016 AO_{165}, 15, 3, 9; 2016 BM_1, 3, 1, 0; 2016 BX_{39}, 3, 1, 0; 2016 CB_{30}, 8, 2, 4; 2016 CB_{138}, 3, 1, 0; 2016 CQ_{195}, 6, 2, 7; 2016 CR_{247}, 3, 1, 0; 2016 CJ_{248}, 12, 3, 7; 2016 EK_{27}, 6, 1, 0; 2016 EY_{27}, 3, 1, 0; 2016 EZ_{27}, 5, 1, 0; 2016 EM_{28}, 3, 1, 0; 2016 ES_{84}, 3, 1, 0; 2016 ED_{85}, 3, 1, 0; 2016 EE_{85}, 3, 1, 0; 2016 EO_{85}, 2, 1, 0; 2016 EP_{85}, 3, 1, 0; 2016 EP_{86}, 8, 2, 8; 2016 ER_{155}, 3, 1, 0; 2016 EB_{158}, 6, 2, 10; 2016 EE_{158}, 5, 1, 0; 2016 EK_{158}, 3, 1, 0; 2016 EC_{195}, 3, 1, 0; 2016 FX_2, 6, 2, 5; 2016 FT_3, 3, 1, 0; 2016 FU_3, 8, 2, 3; 2016 FA_{13}, 3, 1, 0; 2016 FW_{14}, 3, 1, 0; 2016 FF_{15}, 3, 1, 0; 2016 FJ_{39}, 3, 1, 0; 2016 GD, 3, 1, 0; 2016 GZ, 3, 1, 0; 2016 GV_1, 6, 2, 7; 2016 GE_2, 8, 2, 3; 2016 GG_2, 3, 1, 0; 2016 GR_2, 3, 1, 0; 2016 GS_2, 3, 1, 0; 2016 GW_2, 3, 1, 0; 2016 GJ_3, 3, 1, 0; 2016 GD_{134}, 3, 1, 0; 2016 GP_{134}, 3, 1, 0; 2016 GG_{135}, 5, 1, 0; 2016 GL_{135}, 3, 1, 0; 2016 GM_{206}, 3, 1, 0; 2016 GZ_{215}, 3, 1, 0; 2016 GW_{216}, 6, 2, 7; 2016 GU_{220}, 6, 2, 11; 2016 GA_{221}, 6, 2, 8; 2016 GB_{221}, 3, 1, 0; 2016 GN_{221}, 13, 3, 11; 2016 GW_{221}, 10, 2, 5; 2016 GZ_{221}, 3, 1, 0; 2016 GA_{222}, 3, 1, 0; 2016 GK_{222}, 3, 1, 0; 2016 GL_{222}, 6, 2, 3; 2016 GZ_{240}, 10, 2, 4; 2016 GD_{241}, 4, 1, 0; 2016 HL, 7, 1, 0; 2016 HO_2, 3, 1, 0; 2016 HC_3, 8, 3, 4; 2016 HH_3, 3, 1, 0; 2016 HM_3, 3, 1, 0; 2016 HP_3, 3, 1, 0; 2016 HT_3, 3, 1, 0; 2016 HU_3, 3, 1, 0; 2016 HW_3, 4, 1, 0; 2016 HQ_6, 3, 1, 0; 2016 HU_6, 3, 1, 0; (16834), 6, 1, 0; (31221), 5, 1, 0; (243298), 3, 1, 0; (248926), 5, 1, 0; (254419), 5, 1, 0; (260141), 3, 1, 0; (275558), 3, 1, 0; (276660), 3, 1, 0; (281070), 3, 1, 0; (283729), 8, 2, 1; (322775), 5, 1, 0; (326291), 5, 1, 0; (334673), 3, 1, 0; (395207), 5, 1, 0; (438661), 5, 2, 2; (443103), 5, 1, 0; (450160), 5, 1, 0; (452307), 3, 1, 0; (452389), 5, 1, 0; (452421), 3, 1, 0; (455299), 5, 1, 0; (456536), 7, 2, 2; (457663), 3, 1, 0; (458436), 3, 1, 0; (463664), 5, 1, 0; (466507), 10, 2, 2; *[499, 108, 0∗, 2016/04/19–2016/05/01]*

809 European Southern Observatory

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{8} 2016 GV_{161}, 1, 1, 0; *[1, 1, 0∗, 1993/03/22]*

{9} 2013 PZ_{27}, 4, 1, 0; *[4, 1, 0∗, 2005/02/12]*

821 Córdoba-Bosque Alegre

C. Colazo, Observatorio Bosque Alegre, 851 Laprida Street, Córdoba-Capital, Córdoba, Argentina [gatogristanti@gmail.com]
Observers C. Colazo, R. Artola, R. Melia

1.54-m f/4.8 reflector + CCD
UCAC-4
2016 HL, 3, 1, 0; 2016 HW_3, 5, 1, 0; 2016 HN_{23}, 3, 1, 0; *[11, 3, 0*, 2016/04/20–2016/04/28]*

850 Cordell-Lorenz Observatory, Sewanee
D. T. Durig, SPO 1242, Sewanee, TN 37383, U.S.A. [ddurig@sewanee.edu]
0.3-m Schmidt-Cassegrain + CCD
UCAC-4, UCAC-3
2016 HX_3, 2, 1, 0; (118383), 5, 1, 0; *[7, 2, 0*, 2016/04/29]*

900 Moriyama
Y. Ikari, 13-9 Katube 2 Chome, Moriyama, Shiga-Ken, 524-0041 Japan [ikari@gold.ocn.ne.jp]
0.26-m f/7.0 reflector + CCD
UCAC-4
2016 JG_{29}, 3, 1, 0; (2994), 2, 1, 0; (3567), 2, 1, 0; (3568), 2, 1, 0; (21763), 2, 1, 0; (32235), 2, 1, 0; (35883), 2, 1, 0; (40085), 2, 1, 0; (68362), 2, 1, 0; (80035), 2, 1, 0; (85196), 2, 1, 0; (171805), 2, 1, 0; (262498), 2, 1, 0; *[27, 13, 0*, 2016/04/30–2016/05/12]*

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
2015 BD_{293}, 3, 1, 0; *[3, 1, 0*, 1998/09/24]*

926 Tenagra II Observatory
M. Schwartz, Tenagra Observatories, HC 2 Box 292, Nogales, AZ 85621, U.S.A. [mbs@tenagraobservatories.com]
Observers M. Schwartz, P. R. Holvorcem
0.81-m f/7 Ritchey-Chrétien + CCD, 0.41-m f/3.75 astrograph + CCD
USNO-B1.0, UCAC-3
1999 VR_6, 3, 1, 0; 2001 FL_{140}, 3, 1, 0; 2002 CX_{58}, 9, 2, 12; 2003 BH_{76}, 6, 1, 0; 2003 KO_2, 9, 2, 1; 2004 BU_{15}, 3, 1, 0; 2004 KH_{17}, 3, 1, 0; 2006 HV_5, 3, 1, 0; 2006 UU_{50}, 3, 1, 0; 2007 EB_{85}, 3, 1, 0; 2007 GU_{27}, 3, 1, 0; 2007 VT_6, 3, 1, 0; 2008 QQ_{27}, 3, 1, 0; 2009 DL_{46}, 3, 1, 0; 2009 JR_2, 3, 1, 0; 2010 AS_{127}, 3, 1, 0; 2010 JE_{87}, 3, 1, 0; 2010 RE_{42}, 3, 1, 0; 2010 RL_{79}, 3, 1, 0; 2010 XN_{35}, 3, 1, 0; 2011 HA_{53}, 3, 1, 0; 2011 OP_{24}, 3, 1, 0; 2012 OT_5, 3, 1, 0; 2012 PA_{37}, 3, 1, 0; 2013 LQ_7, 3, 1, 0; 2013 WT_{45}, 3, 1, 0; 2014 EW_{24}, 7, 3, 7; 2014 JM_{25}, 8, 3, 2; 2014 PW_{67}, 2, 1, 0; 2014 SS_{135}, 2, 1, 0; 2014 WL_{382}, 3, 1, 0; 2014 YT_9, 7, 3, 2; 2015 DP_{194}, 3, 1, 0; 2015 KJ_{157}, 6, 2, 1; 2015 XW_{377}, 3, 1, 0; 2015 XB_{379}, 3, 1, 0; 2016 AL_8, 3, 1, 0; 2016 AX_{147}, 3, 1, 0; 2016 AO_{164}, 3, 1, 0; 2016 AO_{165}, 3, 1, 0; 2016 BT, 6, 2, 22; 2016 BJ_1, 3, 1, 0; 2016 BU_{13}, 48, 13, 21; 2016 BX_{14}, 66, 18, 28; 2016 BZ_{14}, 3, 1, 0; 2016 CS_{29}, 3, 1, 0; 2016 CF_{194}, 3, 1, 0; 2016 CN_{259}, 3, 1, 0; 2016 CU_{259}, 3, 1, 0; 2016 DW_{21}, 3, 1, 0; 2016 EA_{74}, 3, 1, 0; 2016 EE_{156}, 6, 2, 27; 2016 ED_{157}, 3, 1, 0; 2016 EE_{157}, 6, 2, 4; 2016 EK_{157}, 3, 1, 0; 2016 EE_{158}, 3, 1, 0; 2016 EL_{158}, 6, 2, 1; 2016 ED_{195}, 9, 2, 1; 2016 FE_1, 36, 4, 3; 2016 FX_2, 3, 1, 0; 2016 FY_3, 15, 2, 4; 2016 FS_6, 3, 1, 0; 2016 FE_{12}, 3, 1, 0; 2016 FU_{13}, 15, 5, 23; 2016 FG_{15}, 3, 1, 0; 2016 GD_1, 9, 2, 7; 2016 GE_2, 39, 10, 21; 2016 GP_2, 3, 1, 0; 2016 GS_2, 42, 10, 17; 2016 GD_{134}, 3, 1, 0; 2016 GE_{134}, 6, 2, 8; 2016 GP_{134}, 3, 1, 0; 2016 GH_{135}, 3, 1, 0; 2016 GV_{161}, 3, 1, 0; 2016 GW_{206}, 3, 1, 0; 2016 GZ_{215}, 3, 1, 0; 2016 GF_{216}, 12, 4, 7; 2016 GW_{216}, 5, 2, 1; 2016 GP_{220}, 3, 1, 0; 2016 GV_{220}, 3, 1, 0; 2016 GZ_{220}, 9, 1, 0; 2016 GN_{221}, 6, 2, 19; 2016 GU_{221}, 9, 3, 2; 2016 GV_{221}, 6, 1, 0; 2016 GW_{221}, 27, 7, 8; 2016 GY_{221}, 3, 1, 0; 2016 GB_{222}, 6, 1, 0; 2016 GK_{222}, 3, 1, 0; 2016 GZ_{240}, 6, 2, 11; 2016 GD_{241}, 6, 1, 0; 2016 GA_{252}, 3, 1, 0; 2016 HA, 12, 2, 1; 2016 HB, 9, 1, 0; 2016 HE, 3, 1, 0; 2016 HF, 3, 1, 0; 2016 HK, 26, 5, 8; 2016 HL, 39, 7, 26; 2016 HM, 30, 8, 26; 2016 HN, 72, 9, 10; 2016 HO, 54, 4, 3; 2016 HP, 3, 1, 0; 2016 HQ, 3, 1, 0; 2016 HR, 6, 1, 0; 2016 HF_2, 21, 3, 4; 2016 HH_2, 6, 2, 1; 2016 HJ_2, 3, 1, 0; 2016 HK_2, 6, 2, 1; 2016 HL_2, 6, 2, 1; 2016 HN_2, 21, 5, 13; 2016 HO_2, 24, 4, 6; 2016 HY_2, 3, 1, 0; 2016 HB_3, 6, 2, 1; 2016 HC_3, 9, 3, 2; 2016 HD_3, 24, 3, 3; 2016 HE_3, 18, 2, 2; 2016 HF_3, 78, 12, 21; 2016 HK_3, 3, 1, 0; 2016 HM_3, 6, 2, 2; 2016 HO_3, 5, 2, 3; 2016 HP_3, 9, 3, 8; 2016 HQ_3, 3, 1, 0; 2016 HR_3, 3, 1, 0; 2016 HV_3, 6, 2, 2; 2016 HX_3, 3, 1, 0; 2016 HO_6, 21, 5, 8; 2016 HP_6, 30, 4, 6; 2016 HQ_6, 6, 1, 0; 2016 HR_6, 12, 4, 10; 2016 HS_6, 3, 1, 0; 2016 HT_6, 3, 1, 0; 2016 HL_8, 3, 1, 0; 2016 HD_{19}, 39, 10, 19; 2016 HE_{19}, 3, 1, 0; 2016 HF_{19}, 3, 1, 0; 2016 HG_{19}, 5, 2, 7; 2016 HH_{19}, 6, 2, 2; 2016 HJ_{19}, 5, 2, 1; 2016 HK_{19}, 12, 4, 16; 2016 HQ_{19}, 6, 2, 5; 2016 HT_{19}, 2, 1, 0; 2016 JB, 36, 4, 6; 2016 JC, 3, 1, 0; 2016 JE, 3, 1, 0; 2016 JF, 3, 1, 0; 2016 JJ, 2, 1, 0; 2016 JK, 2, 1, 0; 2016 JP, 21, 5, 7; 2016 JQ, 3, 1, 0; 2016 JR, 3, 1, 0; 2016 JS, 5, 2, 5; 2016 JT, 6, 2, 7; 2016 JX, 3, 1, 0; 2016 JF_5, 3, 1, 0; 2016 JM_5, 2, 1, 0; 2016 JO_5, 3, 1, 0; 2016 JP_5, 6, 2, 1; 2016 JQ_5, 15, 2, 3; 2016 JR_5, 6, 2, 4; 2016 JT_5, 2, 1, 0; 2016 JU_5, 3, 1, 0; 2016 JW_5, 18, 5, 12; 2016 JX_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 12, 1, 0; 2016 JA_6, 3, 1, 0; 2016 JB_6, 3, 1, 0; 2016 JC_6, 39, 5, 10; 2016 JE_6, 9, 3, 5; 2016 JL_6, 3, 1, 0; 2016 JM_6, 6, 2, 3; 2016 JN_6, 2, 1, 0; 2016 JF_7, 6, 1, 0; 2016 JX_{11}, 15, 2, 2; 2016 JA_{12}, 3, 1, 0; 2016 JH_{12}, 3, 1, 0; 2016 JK_{12}, 5, 2, 3; 2016 JH_{17}, 6, 2, 5; 2016 JJ_{17}, 9, 2, 3; 2016 JK_{17}, 2, 1, 0; 2016 JL_{17}, 6, 2, 2; 2016 JM_{17}, 9, 3, 7; 2016 JP_{17}, 75, 7, 8; 2016 JQ_{17}, 3, 1, 0; 2016 JR_{17}, 3, 1, 0; 2016 JS_{17}, 3, 1, 0; 2016 JA_{18}, 3, 1, 0; 2016 JC_{18}, 21, 4, 3; 2016 JD_{18}, 83, 5, 7; 2016 JE_{18}, 30, 3, 2; 2016 JF_{18}, 6, 2, 1; 2016 JH_{18}, 6, 2, 2; 2016 JL_{18}, 3, 1, 0; 2016 JO_{18}, 6, 2, 2; 2016 JQ_{18}, 3, 1, 0; 2016 JG_{19}, 3, 1, 0; 2016 JW_{19}, 3, 1, 0; 2016 JY_{22}, 3, 1, 0; 2016 JK_{23}, 3, 1, 0; 2016 JH_{24}, 2, 1, 0; 2016 JK_{24}, 6, 2, 2; 2016 JL_{24}, 9, 3, 2; 2016 JM_{24}, 3, 1, 0; 2016 JO_{24}, 3, 1, 0; 2016 JQ_{24}, 3, 1, 0; 2016 JS_{24}, 3, 1, 0; 2016 JT_{24}, 3, 1, 0; 2016 JV_{24}, 15, 3, 6; 2016 JX_{24}, 6, 1, 0; 2016 JZ_{27}, 3, 1, 0; 2016 JS_{28}, 9, 3, 6; 2016 JT_{28}, 5, 2, 1; 2016 JU_{28}, 2, 1, 0; 2016 JW_{28}, 12, 1, 0; 2016 JX_{28}, 9, 1, 0; 2016 JY_{28}, 9, 3, 7; 2016 JZ_{28}, 3, 1, 0; 2016 JB_{29}, 3, 1, 0; 2016 JF_{29}, 3, 1, 0; 2016 JG_{29}, 3, 1, 0; 2016 JH_{29}, 3, 1, 0; 2016 JO_{29}, 3, 1, 0; 2016 JQ_{29}, 3, 1, 0; 2016 JE_{32}, 3, 1, 0; 2016 JM_{32}, 3, 1, 0; 2016 JR_{33}, 6, 2, 2; 2016 JT_{33}, 3, 1, 0; 2016 JU_{33}, 6, 1, 0; 2016 JY_{33}, 3, 1, 0; 2016 JZ_{33}, 3, 1, 0; 2016 JD_{34}, 3, 1, 0; 2016 JE_{34}, 3, 1, 0; 2016 JH_{34}, 6, 1, 0; 2016 JJ_{34}, 3, 1, 0; 2016 JK_{34}, 3, 1, 0; 2016 JL_{34}, 3, 1, 0; 2016 JM_{34}, 3, 1, 0; 2016 JN_{34}, 6, 2, 2; 2016 JU_{35}, 6, 1, 0; 2016 KA, 3, 1, 0; 2016 KC, 15, 3, 2; 2016 KD, 15, 2, 1; (190), 6, 1, 0; (418), 3, 1, 0; (571), 9, 3, 2; (602), 3, 1, 0; (731), 3, 1, 0; (800), 3, 1, 0; (1094), 3, 1, 0; (1567), 3, 1, 0; (2136), 6, 1, 0; (2429), 3, 1, 0; (2456), 6, 1, 0; (2929), 3, 1, 0; (4529), 3, 1, 0; (5043), 3, 1, 0; (5232), 3, 1, 0; (5566), 3, 1, 0; (5592), 6, 2, 1; (6125), 3, 1, 0; (6659), 3, 1, 0; (6854), 3, 1, 0; (7485), 6, 1, 0; (8042), 6, 1, 0; (8099), 3, 1, 0; (8920), 3, 1, 0; (10694), 3, 1, 0; (10814), 3, 1, 0; (11260), 3, 1, 0; (11295), 3, 1, 0; (11985), 3, 1, 0; (13797), 3, 1, 0; (14064), 3, 1, 0; (14164), 3, 1, 0; (16420), 3, 1, 0; (16765), 6, 2, 7; (17971), 3, 1, 0; (18903), 3, 1, 0; (19009), 6, 2, 2; (19116), 3, 1, 0; (19498), 3, 1, 0; (20295), 3, 1, 0; (20893), 3, 1, 0; (21251), 3, 1, 0; (21457), 3, 1, 0; (21696), 3, 1, 0; 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(53795), 3, 1, 0; (54007), 3, 1, 0; (55351), 6, 1, 0; (55361), 3, 1, 0; (55478), 3, 1, 0; (55898), 3, 1, 0; (56079), 6, 2, 1; (56796), 3, 1, 0; (57225), 3, 1, 0; (57867), 3, 1, 0; (58262), 6, 2, 2; (59030), 3, 1, 0; (59536), 3, 1, 0; (59732), 3, 1, 0; (60055), 3, 1, 0; (60884), 3, 1, 0; (61027), 3, 1, 0; (61496), 3, 1, 0; (62458), 3, 1, 0; (62486), 3, 1, 0; (62956), 3, 1, 0; (63058), 3, 1, 0; (64443), 6, 1, 0; (65247), 3, 1, 0; (65853), 3, 1, 0; (67376), 6, 2, 2; (69591), 3, 1, 0; (71446), 3, 1, 0; (71777), 3, 1, 0; (71784), 3, 1, 0; (71938), 3, 1, 0; (72505), 3, 1, 0; (73040), 3, 1, 0; (73969), 6, 1, 0; (75346), 3, 1, 0; (75985), 3, 1, 0; (76379), 3, 1, 0; (76485), 6, 2, 2; (77105), 3, 1, 0; (77598), 6, 1, 0; (77677), 6, 2, 1; (78276), 3, 1, 0; (78527), 3, 1, 0; (78734), 3, 1, 0; (79657), 3, 1, 0; (80689), 3, 1, 0; (81375), 3, 1, 0; (81493), 3, 1, 0; (81984), 3, 1, 0; (84207), 3, 1, 0; (84773), 3, 1, 0; (85954), 3, 1, 0; (87114), 3, 1, 0; (87121), 3, 1, 0; (87449), 3, 1, 0; (87636), 6, 1, 0; (88423), 3, 1, 0; (89166), 3, 1, 0; (90469), 3, 1, 0; (90838), 6, 1, 0; (91378), 3, 1, 0; (92915), 6, 2, 1; (93654), 6, 1, 0; (95183), 3, 1, 0; (95525), 3, 1, 0; (96900), 3, 1, 0; (98218), 6, 1, 0; (98701), 6, 1, 0; (99655), 6, 1, 0; (100089), 3, 1, 0; (101753), 3, 1, 0; (105042), 3, 1, 0; (105195), 3, 1, 0; (110604), 3, 1, 0; (113836), 3, 1, 0; (114114), 3, 1, 0; (114754), 6, 1, 0; (115863), 3, 1, 0; (116620), 3, 1, 0; (117672), 6, 1, 0; (118343), 3, 1, 0; (119580), 6, 1, 0; (120775), 3, 1, 0; (122384), 3, 1, 0; (123410), 6, 1, 0; (123701), 3, 1, 0; (125606), 3, 1, 0; (125978), 3, 1, 0; (126628), 3, 1, 0; (130344), 3, 1, 0; (133602), 3, 1, 0; (133998), 3, 1, 0; (138325), 6, 2, 1; (138847), 15, 4, 28; (139864), 6, 1, 0; (140766), 3, 1, 0; (142059), 3, 1, 0; (143640), 3, 1, 0; (145256), 3, 1, 0; (146654), 6, 2, 2; (147313), 3, 1, 0; (149492), 3, 1, 0; (151748), 3, 1, 0; (152575), 3, 1, 0; (154489), 3, 1, 0; (154652), 18, 5, 23; (155227), 3, 1, 0; (156990), 3, 1, 0; (157687), 3, 1, 0; (163249), 6, 2, 2; (163412), 3, 1, 0; (165436), 3, 1, 0; (166724), 3, 1, 0; (168378), 12, 4, 9; (170330), 3, 1, 0; (175619), 3, 1, 0; (183061), 3, 1, 0; (186096), 3, 1, 0; (192460), 3, 1, 0; (196645), 6, 1, 0; (196680), 6, 1, 0; (198857), 3, 1, 0; (199353), 3, 1, 0; (207406), 6, 2, 1; (208585), 3, 1, 0; (212799), 3, 1, 0; (221113), 6, 1, 0; (229797), 3, 1, 0; (232713), 3, 1, 0; (232723), 3, 1, 0; (235502), 3, 1, 0; (235507), 3, 1, 0; (236061), 3, 1, 0; (237512), 3, 1, 0; (238761), 3, 1, 0; (238791), 3, 1, 0; (240655), 3, 1, 0; (241643), 3, 1, 0; (242977), 3, 1, 0; (252164), 6, 1, 0; (252744), 3, 1, 0; (255709), 3, 1, 0; (255886), 6, 1, 0; (258233), 3, 1, 0; (261977), 3, 1, 0; (264754), 3, 1, 0; (267502), 3, 1, 0; (268614), 3, 1, 0; (271057), 3, 1, 0; (271083), 3, 1, 0; (272935), 3, 1, 0; (273983), 3, 1, 0; (274282), 3, 1, 0; (275558), 3, 1, 0; (275751), 3, 1, 0; (276392),

3, 1, 0; (280672), 6, 1, 0; (282570), 3, 1, 0; (282660), 6, 1, 0; (282801), 3, 1, 0; (285265), 3, 1, 0; (287541), 6, 2, 8; (307501), 3, 1, 0; (308713), 3, 1, 0; (309728), 3, 1, 0; (310043), 3, 1, 0; (318098), 3, 1, 0; (319166), 3, 1, 0; (326806), 3, 1, 0; (332117), 3, 1, 0; (332300), 6, 1, 0; (332386), 3, 1, 0; (334184), 3, 1, 0; (336844), 3, 1, 0; (339517), 3, 1, 0; (341641), 3, 1, 0; (366655), 3, 1, 0; (375311), 3, 1, 0; (379897), 3, 1, 0; (380100), 3, 1, 0; (382277), 3, 1, 0; (388945), 3, 1, 0; (389829), 6, 2, 1; (403247), 6, 2, 4; (406952), 3, 1, 0; (413211), 6, 1, 0; (420432), 3, 1, 0; (420523), 3, 1, 0; (423787), 3, 1, 0; (424282), 3, 1, 0; (426016), 3, 1, 0; (427806), 3, 1, 0; (432878), 3, 1, 0; (453729), 27, 6, 28; (456597), 3, 1, 0; (459329), 3, 1, 0; (463569), 3, 1, 0; (465616), 3, 1, 0; (466770), 3, 1, 0; (466811), 3, 1, 0; (466839), 3, 1, 0; (466855), 3, 1, 0; (466857), 3, 1, 0; (466966), 3, 1, 0; (467016), 3, 1, 0; (467076), 3, 1, 0; (467153), 3, 1, 0; (467192), 3, 1, 0; *[3275, 549, 0∗, 2004/12/13–2016/05/19]*

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 A. McNeill, A. Thompson, O. Vaduvescu
Measurers L. Hudin, R. Ashley
2.5-m $f/3.3$ reflector + CCD
PPMXL
{23} 2016 JJ_9, 8, 1, 0; (26604), 5, 1, 0; (56685), 5, 1, 0; (225623), 5, 1, 0; *[23, 4, 0∗, 2016/04/20]*

{3} 2016 HV_7, 3, 1, 0; *[3, 1, 0∗, 2002/11/05]*

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, 0.51-m $f/6$ reflector + CCD
UCAC-4
2016 HF_2, 3, 1, 0; 2016 JB, 3, 1, 0; 2016 JP, 3, 1, 0; 2016 JP_5, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JD_{18}, 4, 1, 0; 2016 JX_{24}, 3, 1, 0; 2016 JY_{28}, 3, 1, 0; *[28, 9, 0∗, 2016/04/25–2016/05/12]*

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, URAT-1
2006 QA_{31}, 2, 1, 0; 2015 HB_{42}, 3, 1, 0; 2016 GF_{216}, 4, 1, 0; 2016 JU_{29}, 2, 1, 0; (1866), 3, 1, 0; (3800), 2, 1, 0; (7977), 2, 1, 0; (90438), 2, 1, 0; (276392), 2, 1, 0; *[22, 9, 0∗, 2011/01/02–2016/05/05]*

A17 Guidestar Observatory, Weinheim
M. Emmerich, Brunhildstrasse 31, D-69469 Weinheim, Germany [mark@guidestar.de]
Observers M. Emmerich, S. Melchert
0.36-m $f/6$ Schmidt-Cassegrain + CCD
UCAC-4
2001 QL_{92}, 6, 2, 1; 2002 CX_{58}, 5, 1, 0; 2009 HD_{82}, 3, 1, 0; 2012 HG, 6, 2, 24; 2012 JS_{23}, 3, 1, 0; 2012 QP_3, 6, 2, 1; 2014 QS_{295}, 3, 1, 0; 2015 BG_{260}, 3, 1, 0; 2016 BZ_{14}, 9, 3, 10; 2016 EP_{86}, 3, 1, 0; 2016 FE_1, 3, 1, 0; 2016 GS_2, 9, 2, 10; 2016 GZ_{123}, 3, 1, 0; 2016 GF_{216}, 6, 2, 5; 2016 GV_{220}, 3, 1, 0; 2016 HB, 3, 1, 0; 2016 HM, 6, 2, 1; 2016 HN, 6, 2, 5; 2016 HF_3, 6, 2, 5; 2016 HK_{19}, 3, 1, 0; 2016 JP_{17}, 8, 1, 0; (50757), 3, 1, 0; (66933), 3, 1, 0; (122254), 6, 2, 2; (134858), 3, 1, 0; (172128), 3, 1, 0; (241441), 3, 1, 0; (275558), 3, 1, 0; (385343), 5, 2, 2; (457719), 3, 1, 0; (464798), 3, 1, 0; *[138, 31, 0∗, 2016/04/10–2016/05/09]*

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
2010 UN, 4, 2, 11; 2016 BU_{13}, 8, 2, 11; 2016 BX_{14}, 6, 1, 0; 2016 GS_2, 4, 1, 0; 2016 HL, 3, 1, 0; *[25, 5, 0∗, 2016/05/06–2016/05/18]*

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, 0.35-m $f/3.1$ reflector + CCD
UCAC-4
(2731), 4, 1, 0; (46380), 4, 1, 0; (81466), 4, 1, 0; (87173), 4, 1, 0; (173644), 3, 1, 0; (292861), 3, 1, 0; *[22, 6, 0∗, 2016/04/27–2016/05/06]*

B18 Terskol
S. Barabanov, Institute of Astronomy of RAS, 48 Pyatnitskaya, Moscow 109017, Russia [inasan@burbonz.nalnet.ru]
Observers V. Kozlov, M. Andreev, V. Godunova, A. Sergeev, V. Reshetnik
0.6-m $f/12.9$ Cassegrain + CCD
UCAC-4
2003 KO_2, 5, 1, 0; 2016 JD_{18}, 5, 1, 0; *[10, 2, 0∗, 2016/04/30–2016/05/11]*

B31 Southern African Large Telescope, Sutherland
D. Buckley, South African Astronomical Observatory, P.O. Box 9, Observatory 7935, South Africa [dibnob@saao.ac.za]
Observers D. Buckley, P. Vaisanen, M. Kotze, D. A. H. Buckley
Measurers S. Bagnulo, D. J. Asher
10-m SALT + CCD
USNO-B1.0
2016 FL_{59}, 5, 1, 0; 2016 FN_{59}, 5, 1, 0; 2016 FP_{59}, 5, 2, 1; (123427), 4, 1, 0; *[19, 4, 0∗, 2016/04/30–2016/05/04]*

B49 Paus Observatory, Sabadell
J. Camarasa, CC/ de les Paus no. 96 bajos, E-08202 Sabadell (BCN), Spain [jordicamarasa@yahoo.es]
0.30-m $f/4$ Newtonian reflector + CCD
PPMXL
2016 HD_{19}, 3, 1, 0; 2016 JP_{17}, 3, 1, 0; *[6, 2, 0∗, 2016/05/11]*

B50 Corner Observatory, Durmersheim
J. Linder, Im Eck 1/19, D-76448 Durmersheim, Germany [juergen@cometmillenium.de]
0.20-m $f/9.7$ Schmidt-Cassegrain + CCD
UCAC-4
(33), 3, 1, 0; (409), 5, 1, 0; (578), 5, 2, 10; (951), 4, 1, 0; (1162), 2, 1, 0; (1225), 2, 1, 0; *[21, 6, 0∗, 2016/01/13–2016/02/27]*

B65 Komakallio Observatory, Kirkkonummi
A. O. Kuosmanen, Päivätie 2 A 6, SF-02210 Espoo, Finland [Antti.Kuosmanen@iki.fi]
Observer J. Saukkonen
Measurer A. Oksanen
0.28-m $f/2.2$ Schmidt + CCD
USNO-A2.0
(19998), 3, 1, 0; (20373), 3, 1, 0; (57520), 3, 1, 0; *[9, 3, 0∗, 2016/04/11]*

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
2008 YX_{52}, 3, 1, 0; 2016 HF_2, 3, 1, 0; 2016 JM_6, 3, 1, 0; (146332), 3, 1, 0; (432971), 3, 1, 0; (466230), 3, 1, 0; (466770), 2, 1, 0; *[20, 7, 0∗, 2015/01/14–2016/05/04]*

B88 Bigmuskie Observatory, Mombercelli
A. Ferrero, via Italo Aresca 12bis, I-14047 Mombercelli (AT), Italy [bigmuskie@alice.it]
0.3-m reflector + CCD
UCAC-4
(453729), 3, 1, 0; *[3, 1, 0∗, 2016/05/17]*

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
(2962), 29, 2, 11; *[29, 1, 0∗, 2016/05/04–2016/05/16]*

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
(43692), 2, 1, 0; (91040), 2, 1, 0; (158522), 2, 1, 0; (168707), 2, 1, 0; (221794), 2, 1, 0; *[10, 5, 0∗, 2016/04/28]*

C23 Olmen
A. Diepvens, B-2491 Olmen, Belgium [alfons.diepvens@telenet.be]
0.20-m $f/9$ refractor + CCD
UCAC-4
(6), 3, 1, 0; (2731), 3, 1, 0; (3318), 3, 1, 0; *[9, 3, 0∗, 2016/04/30–2016/05/06]*

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
2016 EL_{179}, 6, 1, 0; *[6, 1, 0∗, 2011/09/27]*

C41 MASTER-II Observatory, Kislovodsk
V. Lipunov, 119992 Universitetskiy pr. 13, Sternberg Astronomical Institute, Moscow, Russia [lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, V. Chazov, A. Kuznetsov, K. Ivanov, O. Gress, A. Tlatov, V. Senik, D. Dormidontov, A. Parkhomenko
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0
2015 YA_8, 3, 1, 0; (23), 3, 1, 0; (70), 2, 1, 0; (131), 2, 1, 0; (140), 4, 1, 0; (254), 3, 1, 0; (278), 6, 1, 0; (309), 6, 1, 0; (321), 3, 1, 0; (339), 2, 1, 0; (416), 2, 1, 0; (425), 6, 1, 0; (432), 4, 1, 0; (492), 5, 2, 5; (497), 4, 1, 0; (569), 4, 1, 0; (708), 3, 1, 0; (866), 3, 1, 0; (888), 4, 1, 0; (1058), 4, 1, 0; (1074), 3, 1, 0; (1317), 3, 1, 0; (1542), 4, 1, 0; (1567), 5, 1, 0; (1590), 5, 1, 0; (1630), 2, 1, 0; (1699), 4, 1, 0; (1708), 4, 1, 0; (1726), 6, 1, 0; (1727), 2, 1, 0; (1781), 4, 1, 0; (1904), 2, 1, 0; (1929), 5, 1, 0; (1963), 2, 1, 0; (2043), 2, 1, 0; (2056), 2, 1, 0; (2146), 3, 1, 0; (2172), 4, 1, 0; (2213), 6, 1, 0; (2430), 5, 1, 0; (2931), 3, 1, 0; (3204), 2, 1, 0; (3610), 5, 1, 0; (3673), 2, 1, 0; (3709), 3, 1, 0; (3764), 8, 1, 0; (3800), 4, 1, 0; (3829), 3, 1, 0; (3917), 4, 1, 0; (4011), 3, 1, 0; (4046), 4, 1, 0; (4307), 4, 1, 0; (4314), 2, 1, 0; (4389), 4, 1, 0; (4591), 2, 1, 0; (4616), 2, 1, 0; (4646), 2, 1, 0; (4692), 4, 1, 0; (4706), 4, 1, 0; (4848), 4, 1, 0; (4892), 2, 1, 0; (4964), 3, 1, 0; (4981), 5, 2, 5; (5012), 2, 1, 0; (5116), 3, 1, 0; (5219), 3, 1, 0; (5256), 4, 1, 0; (5289), 3, 1, 0; (5355), 4, 1, 0; (5632), 3, 1, 0; (5832), 2, 1, 0; (5844), 2, 1, 0; (5922), 3, 1, 0; (5965), 1, 1, 0; (6180), 3, 1, 0; (6227), 2, 1, 0; (6486), 6, 1, 0; (6796), 3, 1, 0; (7070), 3, 1, 0; (7279), 3, 1, 0; (7296), 5, 1, 0; (7437), 2, 1, 0; (7543), 2, 1, 0; (7691), 5, 1, 0; (8148), 3, 1, 0; (8253), 2, 1, 0; (8311), 2, 1, 0; (8366), 2, 1, 0; (8544), 4, 1, 0; (8586), 4, 1, 0; (8683), 4, 1, 0; (8807), 4, 1, 0; (8916), 1, 1, 0; (9201), 10, 1, 0; (9405), 2, 1, 0; (9569), 8, 1, 0; (9757), 2, 1, 0; (9790), 2, 1, 0; (10084), 3, 1, 0; (10300), 4, 1, 0; (10681), 2, 1, 0; (10691), 2, 1, 0; (10780), 5, 1, 0; (10800), 3, 1, 0; (10914), 3, 1, 0; (10929), 2, 1, 0; (11508), 2, 1, 0; (11953), 4, 1, 0; (12058), 3, 1, 0; (12068), 2, 1, 0; (12241), 3, 1, 0; (12266), 2, 1, 0; (12294), 4, 1, 0; (12874), 1, 1, 0; (13147), 3, 1, 0; (13166), 5, 1, 0; (13184), 1, 1, 0; (13362), 2, 1, 0; (13549), 6, 1, 0; (13657), 4, 1, 0; (14105), 5, 1, 0; (14207), 4, 1, 0; (14256), 2, 1, 0; (14548), 2, 1, 0; (14565), 4, 1, 0; (14945), 8, 1, 0; (14978), 2, 1, 0; (15292), 2, 1, 0; (15645), 2, 1, 0; (15899), 2, 1, 0; (15966), 8, 1, 0; (15984), 8, 1, 0; (16054), 12, 1, 0; (16123), 2, 1, 0; (16865), 2, 1, 0; (16923), 3, 1, 0; (17276), 2, 1, 0; (17311), 2, 1, 0; (17640), 5, 2, 2; (17885), 6, 1, 0; (17919), 2, 1, 0; (17962), 3, 1, 0; (18833), 2, 1, 0; (19149), 8, 1, 0; (19174), 2, 1, 0; (19234), 1, 1, 0; (19488), 2, 1, 0; (19732), 2, 1, 0; (19784), 2, 1, 0; (19856), 3, 1, 0; (20744), 3, 1, 0; (20762), 1, 1, 0; (20763), 2, 1, 0; (20812), 4, 1, 0; (20957), 2, 1, 0; (21124), 5, 1, 0; (21302), 2, 1, 0; (21517), 2, 1, 0; (21556), 4, 1, 0; (21587), 8, 1, 0; (21634), 2, 1, 0; (22419), 1, 1, 0; (22550), 2, 1, 0; (23976), 5, 1, 0; (24376), 2, 1, 0; (25010), 3, 1, 0; (26108), 2, 1, 0; (26134), 4, 1, 0; (26337), 3, 1, 0; (27202), 3, 1, 0; (27222), 3, 1, 0; (27496), 2, 1, 0; (27528), 3, 1, 0; (28310), 4, 1, 0; (28764), 2, 1, 0; (28840), 4, 1, 0; (29821), 2, 1, 0; (29931), 3, 1, 0; (29943), 4, 1, 0; (30234), 3, 1, 0; (30578), 2, 1, 0; (30988), 2, 1, 0; (31068), 2, 1, 0; (31115), 2, 1, 0; (31212), 2, 1, 0; (31392), 3, 1, 0; (31879), 3, 1, 0; (31980), 2, 1, 0; (32101), 2, 1, 0; (32215), 4, 1, 0; (32262), 2, 1, 0; (32385), 3, 1, 0; (33099), 4, 1, 0; (33387), 8, 1, 0; (33479), 6, 1, 0; (33484), 2, 1, 0; (33611), 8, 1, 0; (33953), 2, 1, 0; (34596), 2, 1, 0; (34639), 5, 1, 0; (34884), 6, 1, 0; (35602), 2, 1, 0; (35680), 3, 1, 0; (36498), 2, 1, 0; (36871), 4, 1, 0; (37581), 2, 1, 0; (38333), 2, 1, 0; (38940), 2, 1, 0; (38959), 3, 1, 0; (39169), 1, 1, 0; (40298), 3, 1, 0; (40327), 4, 1, 0; (40428), 2, 1, 0; (40708), 3, 1, 0; (41391), 3, 1, 0; (41677), 5, 1, 0; (41915), 2, 1, 0; (41934), 3, 1, 0; (42693), 4, 1, 0; (43668), 3, 1, 0; (45750), 2, 1, 0; (46380), 3, 1, 0; (47016), 2, 1, 0; (47271), 4, 1, 0; (47375), 4, 1, 0; (49046), 2, 1, 0; (49438), 4, 1, 0; (49764), 3, 1, 0; (50484), 4, 1, 0; (50506), 2, 1, 0; (50722), 2, 1, 0; (50985), 3, 1, 0; (51249), 3, 1, 0; (52565), 4, 1, 0; (53019), 2, 1, 0; (53099), 3, 1, 0; (53135), 2, 1, 0; (54418), 2, 1, 0; (55184), 2, 1, 0; (55649), 6, 1, 0; (56035), 2, 1, 0; (57612), 3, 1, 0; (58896), 3, 1, 0; (59285), 2, 1, 0; (59424), 1, 1, 0; (59648), 3, 1, 0; (59794), 3, 1, 0; (60060), 2, 1, 0; (61099), 8, 1, 0; (61652), 2, 1, 0; (62100), 3, 1, 0; (63541), 2, 1, 0; (64273), 5, 2, 2; (64792), 1, 1, 0; (65523), 2, 1, 0; (67696), 3, 1, 0; (67951), 4, 1, 0; (69252), 3, 1, 0; (69453), 2, 1, 0; (70114), 3, 1, 0; (71885), 1, 1, 0; (71929), 2, 1, 0; (73910), 5, 1, 0; (74673), 2, 1, 0; (74681), 2, 1, 0; (75669), 2, 1, 0; (76750), 1, 1, 0; (76775), 2, 1, 0; (76901), 2, 1, 0; (77861), 4, 1, 0; (78045), 3, 1, 0; (79174), 1, 1, 0; (80046), 4, 1, 0; (82449), 3, 1, 0; (83676), 2, 1, 0; (87067), 3, 1, 0; (89673), 3, 1, 0; (90173), 2, 1, 0; (91247), 2, 1, 0; (91334), 2, 1, 0; (92982), 2, 1, 0; (93246), 4, 1, 0; (94838), 2, 1, 0; (96727), 3, 1, 0; (96994), 2, 1, 0; (97697), 3, 1, 0; (97736), 2, 1, 0; (97761), 2, 1, 0; (100925), 2, 1, 0; (104565), 2, 1, 0; (104770), 4, 1, 0; (107221), 5, 1, 0; (110009), 2, 1, 0; (111677), 2, 1, 0; (117687), 1, 1, 0; (119470), 2, 1, 0; (119485), 3, 1, 0; (119553), 2, 1, 0; (120040), 2, 1, 0; (120406), 2, 1, 0; (122217), 2, 1, 0; (123701), 2, 1, 0; (127288), 1, 1, 0; (130394), 2, 1, 0; (135656), 3, 1, 0; (136291), 1, 1, 0; (136493), 2, 1, 0; (139228), 2, 1, 0; (141354), 2, 1, 0; (144355), 3, 1, 0; (144730), 3, 1, 0; (147332), 3, 1, 0; (177833), 2, 1, 0; (180436), 2, 1, 0; (184099), 3, 1, 0; (195597), 4, 1, 0; (217828), 2, 1, 0; (227783), 2, 1, 0; (230008), 1, 1, 0; (247467), 2, 1, 0; (254555), 2, 1, 0; (457175), 2, 1, 0; *[991, 322, 0∗, 2016/04/22–2016/05/15]*

C43 Hoyerswerda
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0.30-m $f/6.3$ Schmidt-Cassegrain + CCD
UCAC-4, URAT-1
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C47 Nonndorf
G. Dangl, Nonndorf 12, A-3830, Austria [gerhard@dangl.at]
0.25-m $f/4.8$ reflector + CCD
URAT-1
2016 GS_2, 12, 2, 3; 2016 HO, 7, 1, 0; 2016 HQ_3, 3, 1, 0; 2016 HR_3, 5, 1, 0; 2016 HS_3, 5, 1, 0; 2016 JX_{11}, 5, 1, 0; 2016 JY_{11}, 4, 1, 0; 2016 JJ_{17}, 3, 1, 0; *[44, 8, 0∗, 2016/04/24–2016/05/09]*

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

1998 SH_2, 14, 1, 0; 2005 VM_{124}, 10, 2, 1; 2007 KB_3, 34, 7, 6; 2007 KH_7, 124, 15, 15; 2007 RG_{318}, 30, 3, 1; 2008 SC_{211}, 12, 2, 1; 2012 CY_{43}, 32, 4, 2; 2013 WT_{45}, 10, 1, 0; 2015 DE_{154}, 14, 2, 1; 2015 XA_{129}, 40, 6, 6; 2015 XU_{383}, 18, 3, 2; 2016 BZ_{14}, 12, 2, 1; 2016 CO_{27}, 18, 2, 1; 2016 CP_{29}, 38, 5, 2; 2016 CD_{197}, 16, 2, 1; 2016 EJ_{84}, 50, 6, 3; 2016 EE_{156}, 14, 2, 1; 2016 FY_6, 18, 2, 1; 2016 FT_{60} *, 10, 1, 0; 2016 GB_{241}, 112, 16, 22; 2016 HP_2 *, 14, 2, 1; 2016 HN_3 *, 16, 2, 1; 2016 HU_3 *, 12, 2, 1; 2016 HW_3 *, 14, 3, 2; 2016 JJ_{18} *, 28, 4, 2; 2016 JK_{18} *, 10, 1, 0; 2016 JW_{24} *, 24, 3, 2; 2016 JD_{29} *, 20, 3, 1; 2016 JF_{34} *, 18, 3, 1; 2016 JG_{34} *, 20, 4, 2; 2016 JM_{34} *, 38, 4, 2; (5), 26, 3, 1; (19), 24, 3, 1; (20), 18, 3, 1; (24), 22, 2, 1; (25), 22, 3, 1; (46), 20, 2, 1; (48), 26, 3, 1; (52), 24, 3, 1; (55), 24, 3, 1; (56), 70, 6, 6; (59), 20, 3, 1; (64), 14, 2, 1; (80), 24, 3, 1; (84), 26, 3, 1; (85), 36, 3, 2; (97), 26, 3, 1; 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C77 Bernezzo Observatory

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

2003 KO_2, 3, 1, 0; 2016 HO, 5, 1, 0; 2016 JB, 3, 1, 0; 2016 JP, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JX_{11}, 3, 1, 0; *[20, 6, 0∗, 2016/04/25–2016/05/05]*

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. Ribas
Measurers A. Prats, M. J. Palomeque, M. A. Yuste, R. Quejigo
0.50-m $f/3.6$ reflector + CCD
UCAC-4

2016 EK_{182}, 19, 4, 3; 2016 HL_{23} ∗, 15, 3, 2; *[34, 2, 1∗, 2016/04/30–2016/05/03]*

C94 MASTER-II Observatory, Tunka

V. Lipunov, SAI, Universitetskiy pr.13, 119992 Moscow, Russia
[lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, N. Tiurina, P. Balanutsa, V. Kornilov, V. Chazov, A. Kuznetsov, O. Gress, K. Ivanov, S. Yazev, N. Budnev
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0

(888), 3, 1, 0; (1017), 3, 1, 0; (1180), 3, 1, 0; (4857), 3, 1, 0; (72396), 3, 1, 0; *[15, 5, 0∗, 2016/05/04–2016/05/08]*

C95 SATINO Remote Observatory, Haute Provence

D. Husar, Himmelsmoor 18, 22397 Hamburg, Germany [husar.d@gmx.de]
0.30-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.1$ focal reducer
UCAC-3

2016 JA_{13}, 3, 1, 0; *[3, 1, 0∗, 2014/12/24]*

D00 ISON-Kislovodsk Observatory

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

2016 EC_{148}, 3, 1, 0; 2016 GL_{244}, 4, 1, 0; 2016 HH_3, 3, 1, 0; (466972), 4, 1, 0; *[14, 4, 0∗, 2013/01/14–2014/11/21]*

D03 Rantiga Osservatorio, Tincana

M. Żołnowski, Godebskiego 55a, Cracow, Poland [michael.zolnowski@gmail.com]
Observers M. Żołnowski, M. Kusiak

0.4-m $f/3.8$ reflector + CCD.

UCAC-3

2016 GQ_{215}, 2, 1, 0; 2016 GG_{246}, 4, 1, 0; 2016 HA_5, 4, 1, 0; (465020), 2, 1, 0; (466811), 4, 1, 0; *[16, 5, 0∗, 2013/09/05–2015/01/24]*

D29 Purple Mountain Observatory, XuYi Station

H. B. Zhao, 2# West Beijing Road, Nanjing 210008, China [meteorzh@pmo.ac.cn]
Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu, B. Mei, X. P. Lu, R. Q. Honag
Measurers H. B. Zhao, B. Li, H. Lu, G. Zhaori

1.04-m $f/1.8$ Schmidt + CCD

UCAC-4

1999 FB_{76}, 2, 1, 0; 2000 DX_{67}, 3, 1, 0; 2000 LK, 2, 1, 0; 2001 FL_{140}, 5, 2, 3; 2001 HE_{27}, 3, 1, 0; 2001 QL_{92}, 3, 1, 0; 2002 GA_{190}, 2, 1, 0; 2002 GN_{191}, 2, 1, 0; 2002 KT_3, 5, 1, 0; 2002 MU_5, 2, 1, 0; 2002 RS_{291}, 2, 1, 0; 2002 TR_{338}, 3, 1, 0; 2002 VZ_{115}, 3, 1, 0; 2003 BH_{76}, 8, 3, 13; 2003 DL_{15}, 3, 1, 0; 2003 FO_{21}, 3, 1, 0; 2003 FS_{103}, 2, 1, 0; 2003 GJ_{51}, 6, 2, 8; 2003 GU_{51}, 2, 1, 0; 2003 HR_{52}, 2, 1, 0; 2003 JD_4, 3, 1, 0; 2003 MZ_6, 2, 1, 0; 2004 EZ_{18}, 2, 1, 0; 2004 LB_{14}, 3, 1, 0; 2004 QX_{24}, 2, 1, 0; 2004 RD_{332}, 3, 1, 0; 2005 EQ_{138}, 3, 1, 0; 2005 ED_{170}, 3, 1, 0; 2005 GU_{201}, 2, 1, 0; 2005 GG_{215}, 3, 1, 0; 2005 JY_{36}, 3, 1, 0; 2005 JZ_{150}, 2, 1, 0; 2005 TQ_{70}, 3, 1, 0; 2005 UE_{520}, 2, 1, 0; 2005 VJ_{52}, 3, 1, 0; 2006 BL_{123}, 2, 1, 0; 2006 FF_{41}, 2, 1, 0; 2006 HX_{83}, 2, 1, 0; 2006 KO_{47}, 3, 1, 0; 2006 KR_{76}, 3, 1, 0; 2006 PP_{28}, 3, 1, 0; 2006 QQ_{91}, 3, 1, 0; 2006 SD_{151}, 3, 1, 0; 2006 TY_{97}, 2, 1, 0; 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(426409), 3, 1, 0; (426447), 3, 1, 0; (426458), 2, 1, 0; (426504), 2, 1, 0; (426633), 2, 1, 0; (426663), 3, 1, 0; (426855), 3, 1, 0; (427042), 2, 1, 0; (427282), 2, 1, 0; (427322), 2, 1, 0; (427381), 6, 2, 7; (427418), 3, 1, 0; (427694), 2, 1, 0; (427799), 3, 1, 0; (427806), 3, 1, 0; (427827), 5, 2, 6; (427829), 4, 2, 7; (427830), 6, 2, 7; (428034), 2, 1, 0; (428078), 3, 1, 0; (428224), 2, 1, 0; (428348), 3, 1, 0; (428688), 2, 1, 0; (428985), 3, 1, 0; (428986), 2, 1, 0; (429193), 3, 1, 0; (429244), 2, 1, 0; (429249), 1, 1, 0; (429254), 2, 1, 0; (429273), 3, 1, 0; (429312), 3, 1, 0; (429325), 2, 1, 0; (429605), 3, 1, 0; (429670), 3, 1, 0; (429673), 2, 1, 0; (429741), 3, 1, 0; (429815), 2, 1, 0; (429928), 1, 1, 0; (429971), 2, 1, 0; (429975), 2, 1, 0; (430282), 3, 1, 0; (430407), 2, 1, 0; (430470), 2, 1, 0; (430471), 5, 1, 0; (430763), 2, 1, 0; (430852), 6, 2, 8; (430978), 5, 2, 6; (431162), 2, 1, 0; (431910), 3, 1, 0; (432436), 3, 1, 0; (433026), 3, 1, 0; (433074), 2, 1, 0; (433121), 2, 1, 0; (433273), 3, 1, 0; (433290), 2, 1, 0; (433733), 3, 1, 0; (433806), 3, 1, 0; (433833), 3, 1, 0; (433836), 2, 1, 0; (433857), 3, 1, 0; (433884), 3, 1, 0; (435538), 2, 1, 0; (435643), 2, 1, 0; (437994), 2, 1, 0; (442763), 4, 2, 7; (453729), 3, 1, 0; (455182), 3, 1, 0; (455262), 3, 1, 0; (455292), 3, 1, 0; (455293), 3, 1, 0; (455310), 2, 1, 0; (455313), 3, 1, 0; (455315), 2, 1, 0; (455398), 9, 3, 18; (455410), 5, 1, 0; (455413), 3, 1, 0; (455417), 3, 1, 0; (455451), 3, 1, 0; (455682), 1, 1, 0; (455688), 3, 1, 0; (455705), 5, 2, 3; (455720), 3, 1, 0; (455726), 3, 1, 0; (456054), 2, 1, 0; (456114), 5, 2, 12; (456159), 5, 1, 0; (456202), 3, 1, 0; (456281), 4, 1, 0; (456299), 3, 1, 0; (456339), 3, 1, 0; (456422), 3, 1, 0; (456512), 3, 1, 0; (457009), 3, 1, 0; (457151), 2, 1, 0; (457175), 2, 1, 0; (457176), 3, 1, 0; (457184), 6, 2, 3; (457195), 2, 1, 0; (457196), 3, 1, 0; (457224), 3, 1, 0; (457594), 2, 1, 0; (457635), 2, 1, 0; (457713), 3, 1, 0; (457719), 5, 2, 13; (457734), 3, 1, 0; (457747), 6, 2, 10; 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D35 Lulin Observatory
H. C. Lin, 300 JungDa Rd, Chung-li City, Tao-yuan Country, Taiwan [hclin@astro.ncu.edu.tw]
Observers 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
USNO
2015 AL_{50}, 3, 1, 0; 2015 BP_{80}, 3, 1, 0; (466652), 3, 1, 0; *[9, 3, 0*, 2006/08/25–2007/08/06]*

D95 Kurihara
T. Takahashi, Kurihara, Miyagi-ken, 989-5171 Japan [pxi16412@nifty.com]
0.25-m f/4.2 reflector + CCD
UCAC-4
(3354), 3, 1, 0; (3447), 3, 1, 0; (5064), 3, 1, 0; (5389), 3, 1, 0; (8199), 4, 1, 0; (8513), 6, 2, 7; (10746), 9, 3, 13; (11147), 3, 1, 0; (11522), 3, 1, 0; (13823), 6, 2, 2; (13941), 3, 1, 0; (14261), 3, 1, 0; (14614), 2, 1, 0; (15776), 3, 1, 0; (16043), 3, 1, 0; (16237), 6, 2, 2; (16699), 3, 1, 0; (16733), 3, 1, 0; (16770), 3, 1, 0; (18537), 3, 1, 0; (18851), 3, 1, 0; (19335), 3, 1, 0; (19830), 6, 2, 46; (20226), 3, 1, 0; (21600), 3, 1, 0; (23030), 3, 1, 0; (27211), 3, 1, 0; (27240), 3, 1, 0; (29376), 3, 1, 0; (29867), 3, 1, 0; (30381), 3, 1, 0; (31230), 6, 2, 6; (31379), 3, 1, 0; (35428), 3, 1, 0; (37791), 2, 1, 0; (41276), 3, 1, 0; (43418), 3, 1, 0; (47363), 2, 1, 0; (47668), 2, 1, 0; (52627), 3, 1, 0; (53194), 3, 1, 0; (53315), 3, 1, 0; (54507), 3, 1, 0; (56204), 3, 1, 0; (64120), 3, 1, 0; (67720), 3, 1, 0; (67856), 3, 1, 0; (70972), 3, 1, 0; (76358), 3, 1, 0; (76448), 2, 1, 0; (79518), 6, 2, 6; (81020), 3, 1, 0; (82339), 3, 1, 0; (91265), 3, 1, 0; (98174), 3, 1, 0; (98700), 3, 1, 0; (107663), 2, 1, 0; (113404), 3, 1, 0; (115067), 3, 1, 0; (125418), 3, 1, 0; (132715), 3, 1, 0; (137891), 3, 1, 0; (140280), 2, 1, 0; (148744), 3, 1, 0; (174395), 3, 1, 0; (198845), 3, 1, 0; *[216, 66, 0*, 2016/02/05–2016/03/28]*

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
2004 TW_{337}, 4, 1, 0; 2007 JJ_9, 11, 3, 51; 2008 YD_{66}, 3, 1, 0; 2014 LB_{11}, 4, 1, 0; 2014 RT_{12}, 4, 1, 0; 2014 UQ, 4, 1, 0; 2014 WE_{174}, 2, 1, 0; 2014 WD_{216}, 3, 1, 0; 2014 WZ_{236}, 4, 1, 0; 2014 WJ_{319}, 4, 1, 0; 2015 BC_1, 4, 1, 0; 2015 BG_{260}, 4, 1, 0; 2015 CD_{35}, 2, 1, 0; 2015 FK_{251}, 4, 1, 0; 2016 CB_{246}, 3, 1, 0; 2016 EP_{36}, 3, 1, 0; 2016 EH_{47}, 4, 1, 0; 2016 ER_{149}, 4, 1, 0; 2016 ER_{201}, 3, 1, 0; 2016 FY_6, 4, 1, 0; 2016 GO, 8, 2, 23; 2016 GT_{13}, 4, 1, 0; 2016 GO_{73}, 4, 1, 0; 2016 GU_{174}, 4, 1, 0; 2016 GG_{205}, 8, 2, 20; 2016 GX_{208}, 4, 1, 0; 2016 GY_{225}, 4, 1, 0; 2016 GP_{241}, 4, 1, 0; 2016 GP_{242}, 4, 1, 0; 2016 GV_{247}, 4, 1, 0; 2016 GC_{250}, 9, 3, 502; 2016 HQ_1, 4, 1, 0; 2016 HH_2, 4, 1, 0; 2016 HH_3, 3, 1, 0; 2016 HA_5, 4, 1, 0; 2016 HZ_5, 7, 2, 2211; 2016 HZ_7, 4, 1, 0; 2016 JD_4, 3, 1, 0; 2016 JC_{16}, 4, 1, 0; 2016 JO_{23}, 4, 1, 0; 2016 JP_{28}, 4, 1, 0; 2016 JN_{29}, 12, 3, 33; 2016 JA_{30}, 8, 2, 22; 2016 JG_{30}, 24, 6, 2458; 2016 JP_{30}, 4, 1, 0; 2016 JO_{32}, 12, 3, 72; (464891), 4, 1, 0; (465992), 4, 1, 0; (466038), 4, 1, 0; (466233), 3, 1, 0; (466811), 4, 1, 0; (466868), 4, 1, 0; (466920), 4, 1, 0; (466934), 4, 1, 0; (467101), 4, 1, 0; (467191), 3, 1, 0; (467204), 4, 1, 0; (467243), 2, 1, 0; *[280, 58, 0*, 2004/06/30–2013/07/27]*

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
2016 HL, 9, 2, 1; 2016 JW_5, 4, 1, 0; 2016 JC_6, 14, 2, 1; 2016 JU_{33}, 13, 3, 2; (38), 3, 1, 0; (2851), 3, 1, 0; (14658), 3, 1, 0; (19779), 3, 1, 0; *[52, 8, 0*, 2016/04/20–2016/05/15]*

E89 Geyserland Observatory, Pukehangi
R. Carstens, 120 Homedale Street, Pukehangi, 3015 Rotorua, New Zealand [caro@wave.co.nz]
0.25-m f/8.2 Schmidt-Cassegrain + CCD
UCAC-4
(194386), 7, 1, 0; *[7, 1, 0*, 2016/04/28]*

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, T. Vorobjov, L. Buzzi, P. Veres

1.8-m $f/4.4$ Ritchey-Chrétien + CCD

2MASS, PPMXL

1981 EX_{11}, 3, 1, 0; 1995 FM_{15}, 9, 2, 469; 1995 OY_{10}, 7, 2, 7; 1995 TJ_3, 3, 1, 0; 1996 GT_4, 3, 1, 0; 1996 RX_{17}, 4, 1, 0; 1997 EN_{16}, 4, 1, 0; 1998 ST_{18}, 4, 1, 0; 1998 TR_{36}, 3, 1, 0; 1998 WF_{38}, 3, 1, 0; 1998 XD_9, 3, 1, 0; 1999 CY_{129}, 4, 1, 0; 1999 FK_{83}, 3, 1, 0; 1999 TV_{20}, 3, 1, 0; 1999 TE_{21}, 3, 1, 0; 1999 TZ_{244}, 11, 3, 7; 1999 UX_{21}, 4, 1, 0; 2000 CX_{68}, 4, 1, 0; 2000 LK, 6, 2, 11; 2000 QN_{129}, 7, 2, 7; 2000 QR_{221}, 11, 3, 11; 2000 SY_9, 3, 1, 0; 2000 SC_{29}, 3, 1, 0; 2000 SD_{72}, 2, 1, 0; 2000 SW_{291}, 7, 2, 4; 2000 SR_{344}, 8, 2, 11; 2000 UN_3, 3, 1, 0; 2000 UZ_{112}, 2, 1, 0; 2000 WN_{162}, 3, 1, 0; 2001 FL_{140}, 4, 1, 0; 2001 HV_{38}, 4, 1, 0; 2001 OU_{36}, 3, 1, 0; 2001 OD_{40}, 4, 1, 0; 2001 OQ_{44}, 4, 1, 0; 2001 OM_{91}, 3, 1, 0; 2001 PE_8, 4, 1, 0; 2001 PH_{13}, 3, 1, 0; 2001 PZ_{16}, 4, 1, 0; 2001 QL_{92}, 26, 8, 1486; 2001 QP_{281}, 3, 1, 0; 2001 RK_2, 3, 1, 0; 2001 SP_{152}, 3, 1, 0; 2001 SH_{208}, 8, 2, 7; 2001 SD_{287}, 3, 1, 0; 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935; (467219), 3, 1, 0; (467220), 4, 1, 0; (467223), 3, 1, 0; (467226), 7, 2, 1378; (467227), 3, 1, 0; (467228), 19, 5, 567; (467230), 7, 2, 520; (467233), 3, 1, 0; (467237), 3, 1, 0; (467238), 3, 1, 0; (467240), 7, 2, 515; (467241), 4, 1, 0; (467242), 7, 2, 435; (467243), 15, 3, 83; (467248), 4, 1, 0; (467249), 11, 3, 40; (467250), 8, 3, 517; (467251), 8, 2, 495; (467252), 12, 4, 559; (467254), 15, 4, 1422; (467255), 4, 1, 0; (467260), 11, 2, 882; (467263), 14, 4, 498; (467264), 4, 1, 0; (467268), 4, 1, 0; (467270), 7, 2, 1387; (467272), 4, 1, 0; (467274), 4, 1, 0; (467275), 3, 1, 0; (467277), 4, 1, 0; (467278), 2, 1, 0; (467280), 3, 1, 0; (467281), 3, 1, 0; (467282), 10, 3, 1300; (467283), 12, 4, 1801; (467284), 4, 1, 0; (467286), 3, 1, 0; (467287), 7, 2, 972; (467288), 4, 1, 0; (467291), 4, 1, 0; (467292), 15, 5, 1043; (467293), 4, 1, 0; (467294), 4, 1, 0; (467295), 6, 2, 505; (467297), 3, 1, 0; (467298), 11, 3, 934; (467301), 8, 2, 938; (467303), 4, 1, 0; (467304), 6, 2, 893; (467306), 11, 3, 1395; *[318576, 68194, 1020∗, 2011/01/29–2016/05/19]*

F52 Pan-STARRS 2, Haleakala

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

1.8-m $f/4$ reflector + 1.4 GPix CCD

2MASS

http://www.ps1sc.org/PS1_System_MPC.htm

2015 HP_{81}, 4, 1, 0; 2015 HW_{173}, 4, 1, 0; *[8, 2, 0∗, 2015/04/24–2015/05/22]*

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

2008 WL_{39}, 5, 1, 0; 2010 AK_{93}, 6, 2, 12; 2016 GQ_{215}, 4, 1, 0; 2016 JH_3 ∗, 15, 3, 10; 2016 JM_7, 4, 1, 0; 2016 JB_{37} ∗, 11, 3, 5; (372), 5, 1, 0; (2305), 5, 1, 0; (2730), 4, 1, 0; (3353), 4, 1, 0; (8990), 4, 1, 0; (11191), 5, 1, 0; (11701), 5, 1, 0; (14956), 4, 1, 0; (16365), 5, 1, 0; (16444), 5, 1, 0; (16691), 5, 1, 0; (19234), 5, 1, 0; (19551), 3, 1, 0; (21145), 5, 1, 0; (22110), 5, 1, 0; (22256), 5, 1, 0; (26037), 5, 1, 0; (30102), 5, 1, 0; (30534), 5, 1, 0; (33960), 4, 1, 0; (36831), 5, 1, 0; (48592), 5, 1, 0; (49611), 5, 1, 0; (51485), 5, 1, 0; (56250), 5, 1, 0; (56687), 5, 1, 0; (62291), 5, 1, 0; (63573), 4, 1, 0; (66206), 5, 1, 0; (66910), 5, 1, 0; (67013), 10, 1, 0; (67792), 4, 1, 0; (75398), 10, 1, 0; (76577), 5, 1, 0; (78751), 5, 1, 0; (84582), 5, 1, 0; (87320), 5, 1, 0; (93307), 9, 2, 12; (94593), 7, 1, 0; (98156), 5, 1, 0; (107307), 11, 2, 14; (109113), 4, 1, 0; (113704), 5, 1, 0; (116093), 5, 1, 0; (118819), 4, 1, 0; (132399), 5, 1, 0; (168956), 4, 1, 0; (174085), 3, 1, 0; (201864), 4, 1, 0; (203913), 3, 1, 0; (378700), 6, 1, 0; (423192), 4, 1, 0; *[310, 58, 2∗, 2016/04/15–2016/05/17]*

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

2016 BU_{13}, 4, 1, 0; (1866), 3, 1, 0; (7350), 4, 1, 0; (35396), 3, 1, 0; (86667), 3, 1, 0; (137170), 3, 1, 0; *[20, 6, 0∗, 2016/04/26–2016/05/08]*

G36 Calar Alto-CASADO

S. Hellmich, Institute of Planetary Research, Rutherfordstraße 2, D-12489 Berlin, Germany [stephan.hellmich@dlr.de]

Observers S. Hellmich, S. Mottola

1.23-m $f/8$ reflector + CCD

PPMXL, URAT-1

2003 WZ_{44}, 3, 1, 0; 2007 RP_{308}, 3, 1, 0; 2010 RG_{146}, 3, 1, 0; 2012 AY_{17}, 11, 3, 2; 2013 AP_{133}, 8, 2, 1; 2015 DG_8, 2, 1, 0; 2016 EX_{195}, 3, 1, 0; 2016 EN_{198}, 4, 1, 0; 2016 GL_{241} ∗, 11, 3, 2; 2016 GM_{241} ∗, 3, 1, 0; 2016 GV_{246}, 10, 1, 0; 2016 GX_{246}, 18, 3, 2; 2016 JQ_6, 4, 1, 0; 2016 JD_7 ∗, 7, 2, 1; 2016 JX_{26}, 8, 1, 0; 2016 JO_{29}, 12, 1, 0; 2016 JV_{31}, 9, 1, 0; (617), 41, 15, 30; (2260), 21, 7, 19; (2759), 36, 12, 25; (2895), 17, 6, 8; (3673), 6, 2, 2; (3892), 3, 1, 0; (4068), 15, 5, 5; (4696), 3, 1, 0; (4715), 17, 6, 19; (4867), 24, 8, 12; (5120), 17, 6, 8; (5264), 20, 7, 19; (6357), 12, 4, 5; (7543), 39, 13, 26; (7664), 3, 1, 0; (9670), 6, 2, 1; (9694), 39, 13, 26; (13693), 3, 1, 0; (14514), 3, 1, 0; (15539), 44, 15, 30; (16501), 6, 2, 3; (18054), 17, 6, 8; (18119), 3, 1, 0; (20199), 9, 3, 2; (23558), 18, 6, 7; (26343), 3, 1, 0; (26679), 3, 1, 0; (29787), 6, 2, 1; (31010), 3, 1, 0; (32328), 6, 2, 1; (33575), 3, 1, 0; (35439), 3, 1, 0; (35481), 3, 1, 0; (40428), 3, 1, 0; (42388), 3, 1, 0; (43424), 3, 1, 0; (45605), 2, 1, 0; (46186), 6, 2, 1; (48490), 3, 1, 0; (49566), 2, 1, 0; (50883), 3, 1, 0; (52478), 3, 1, 0; (55685), 3, 1, 0; (55796), 3, 1, 0; (58839), 3, 1, 0; (58913), 3, 1, 0; (59082), 6, 2, 3; (62603), 3, 1, 0; (63543), 3, 1, 0; (66319), 3, 1, 0; (66896), 6, 2, 2; (67331), 3, 1, 0; (71562), 9, 3, 5; (71579), 9, 3, 2; (71715), 3, 1, 0; (72058), 3, 1, 0; (72500), 6, 2, 3; (74705), 3, 1, 0; (76296), 17, 6, 5; (77688), 3, 1, 0; (86372), 9, 3, 4; (88771), 3, 1, 0; (89166), 6, 2, 1; (89482), 3, 1, 0; (90583), 2, 1, 0; (98269), 6, 2, 1; (99328), 3, 1, 0; (99408), 3, 1, 0; (102733), 6, 2, 1; (104953), 3, 1, 0; (106744), 3, 1, 0; (109444), 2, 1, 0; (110897), 2, 1, 0; (111533), 3, 1, 0; (117348), 6, 2, 1; (124412), 9, 3, 2; (127686), 3, 1, 0; (131386), 3, 1, 0; (132380), 6, 2, 1; (134329), 9, 3, 18; (134539), 3, 1, 0; (139433), 3, 1, 0; (141315), 9, 3, 3; (145554), 3, 1, 0; (148768), 2, 1, 0; (149483), 3, 1, 0; (149667), 3, 1, 0; (149892), 6, 2, 1; (155280), 3, 1, 0; (156442), 12, 4, 4; (161758), 3, 1, 0; (162980), 31, 11, 25; (167939), 3, 1, 0; (168837), 3, 1, 0; (169018), 3, 1, 0; (169492), 9, 3, 2; (174773), 5, 2, 1; (175284), 9, 3, 3; (180740), 3, 1, 0; (183426), 3, 1, 0; (185888), 3, 1, 0; (201590), 3, 1, 0; (208561), 3, 1, 0; (210667), 6, 2, 3; (211162), 6, 2, 1; (212935), 6, 2, 1; (223762), 3, 1, 0; (223763), 4, 1, 0; (224348), 9, 3, 2; (225369), 9, 3, 3; (227631), 6, 2, 3; (227653), 3, 1, 0; (227957), 3, 1, 0; (228255), 3, 1, 0; (228507), 6, 2, 1; (234473), 9, 3, 2; (249218), 3, 1, 0; (254586), 3, 1, 0; (254875), 3, 1, 0; (255680), 3, 1, 0; (255987), 5, 2, 3; (258319), 12, 4, 3; (261995), 3, 1, 0; (268443), 3, 1, 0; (273217), 6, 2, 3; (275526), 6, 2, 2; (280729), 9, 3, 5; (288099), 3, 1, 0; (306234), 3, 1, 0; (308273), 9, 3, 2; (310877), 3, 1, 0; (311694), 3, 1, 0; (318841), 6, 2, 3; (322530), 6, 2, 2; (324169), 3, 1, 0; (325421), 9, 3, 2; (327312), 3, 1, 0; (327981), 3, 1, 0; (328806), 2, 1, 0; (331490), 6, 2, 1; (332759), 6, 2, 2; (334970), 11, 4, 6; (347423), 12, 4, 3; (360660), 6, 2, 2; (362840), 9, 3, 3; (364601), 3, 1, 0; (368859), 2, 1, 0; (372138), 3, 1, 0; (381628), 8, 2, 2; (381964), 12, 4, 3; (382316), 3, 1, 0; (409453), 6, 2, 3; (410018), 3, 1, 0; (414209), 5, 2, 1; (415543), 3, 1, 0; (416080), 3, 1, 0; (416435), 2, 1, 0; (420747), 6, 2, 1; (423468), 9, 3, 2; (424810), 3, 1, 0; (425413), 5, 2, 1; (425984), 12, 4, 3; (458596), 3, 1, 0; (461094), 3, 1, 0; (461571), 3, 1, 0; (462788), 3, 1, 0; (464977), 3, 1, 0; (465173), 6, 2, 2; (466436), 3, 1, 0; (466888), 9, 3, 3; *[1259, 187, 3∗, 2013/09/24–2016/05/04]*

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 H. Larson, A. Thirouin

4.3-m Lowell Observatory Discovery Channel telescope + CCD

USNO-B1.0

2012 FA_{19}, 3, 1, 0; 2012 KF_{49}, 2, 1, 0; 2016 JD_{18}, 16, 1, 0; 2016 JE_{18}, 9, 1, 0; 2016 JP_{20}, 2, 1, 0; *[32, 5, 0∗, 2014/10/22–2016/05/09]*

G40 Slooh.com Canary Islands Observatory

T. Evans, Apartado 286, 8601-929 LUZ LGS, Portgual [tony.evans@sapo.pt] (3)

B. Lütkenhöner, Schlossfeld 112, 48308 Senden, Germany [lutkenh@t-online.de] (9)

M. Kumrucu-Lohmiller, 5 Atlas Road, Sharon, MA 02067-1301, USA [mklohmiller@gmail.com] (10)

G. Gašparović, Actarius Grupa, Badaliceva 25, 10000 Zagreb, Croatia [gasparovic@actarius.hr] (11)

R. C. Bubany, 67682 217th St, Darwin, MN 55324, U.S.A. [bubanyrc@mchsi.com] (13)

D. P. Dean, 3 Green Valley Lake Rd, Old Lyme, CT 06371, U.S.A. [deandp371@gmail.com] (14)

Observers B. Lütkenhöner, M. Kumrucu-Lohmiller, R. C. Bubany, A. J. Evans, G. Gašparović, Y. Chen, J. Tuten, P. Cox, R. E. Walker

0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD

UCAC-4

{10} 2016 BX_{14}, 5, 2, 3; 2016 GS_2, 9, 2, 9; 2016 JD_{18}, 4, 2, 1; (53110), 5, 2, 6; (81182), 3, 1, 0; (453729), 2, 1, 0; *[28, 6, 0∗, 2016/04/22–2016/05/15]*

{11} 2007 CY_{26}, 3, 1, 0; 2016 JW ∗, 2, 1, 0; 2016 JY_5, 4, 1, 0; (1080), 3, 1, 0; (48095), 3, 1, 0; (68509), 3, 1, 0; (69151), 3, 1, 0; (74921), 2, 1, 0; (81166), 3, 1, 0; (90931), 3, 1, 0; (93858), 3, 1, 0; (96052), 2, 1, 0; (110569), 3, 1, 0; (124822), 3, 1, 0; (153786), 3, 1, 0; (163025), 2, 1, 0; (211112), 2, 1, 0; (254567), 3, 1, 0; (264630), 3, 1, 0; (318162), 3, 1, 0; (332338), 3, 1, 0; (414090), 2, 1, 0; *[61, 22, 1∗, 2016/05/01–2016/05/06]*

{13} 2003 KO_2, 3, 1, 0; 2016 GS_2, 2, 1, 0; 2016 HL, 7, 2, 8; 2016 JP_{17}, 2, 2, 3; (464798), 7, 4, 23; *[21, 5, 0∗, 2016/04/24–2016/05/17]*

{14} 2016 BC_{14}, 5, 2, 2; *[5, 1, 0*, 2016/03/12–2016/03/14]*

{3} 2016 HD_{19}, 2, 1, 0; *[2, 1, 0*, 2016/05/19]*

{9} 2016 FE_1, 5, 1, 0; 2016 HN, 2, 1, 0; 2016 HO, 3, 1, 0; (394), 2, 1, 0; (3535), 2, 1, 0; (14256), 2, 1, 0; (18810), 2, 1, 0; (26208), 2, 1, 0; (29376), 4, 1, 0; (30381), 5, 1, 0; (75237), 2, 1, 0; (84731), 2, 1, 0; (84980), 2, 1, 0; (112971), 3, 1, 0; (113718), 2, 1, 0; (168707), 2, 1, 0; *[42, 16, 0*, 2016/03/26–2016/05/15]*

G45 Space Surveillance Telescope, Atom Site

J. Ruprecht, MIT Lincoln Laboratory, 244 Wood St., Lexington, MA 02420, U.S.A.
[jessica.ruprecht@ll.mit.edu]
Observers M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, G. Spitz
Measurers M. Cornell, A. Klein, J. Ruprecht, G. Ushomirsky, J. Varey, D. Woods
3.5-m $f/1$ reflector + CCD
SSTRC4

1995 KB, 9, 2, 3; 1999 CY_{129}, 4, 1, 0; 1999 TE_{21}, 4, 1, 0; 2000 CX_{68}, 4, 1, 0; 2001 FL_{140}, 8, 2, 39; 2001 HE_{27}, 30, 5, 32; 2001 QL_{92}, 5, 1, 0; 2001 TJ_{160}, 5, 1, 0; 2001 UQ_{58}, 16, 2, 13; 2001 WO_4, 10, 2, 13; 2002 AX_{19}, 5, 1, 0; 2002 AE_{176}, 9, 2, 45; 2002 CX_{58}, 7, 1, 0; 2002 FH_6, 9, 2, 3; 2002 GZ, 5, 1, 0; 2002 GU_{179}, 6, 1, 0; 2002 GA_{190}, 5, 1, 0; 2002 GN_{191}, 10, 2, 4; 2002 JA_9, 4, 1, 0; 2002 KT_3, 13, 3, 10; 2002 LC_{52}, 5, 1, 0; 2002 LS_{63}, 5, 1, 0; 2002 NC_{73}, 4, 1, 0; 2002 NO_{78}, 4, 1, 0; 2002 QX_3, 4, 1, 0; 2002 QQ_{101}, 5, 1, 0; 2002 QS_{151}, 8, 1, 0; 2002 QC_{153}, 5, 1, 0; 2002 QR_{154}, 4, 1, 0; 2002 RE_{200}, 4, 1, 0; 2002 RS_{291}, 5, 1, 0; 2002 TA_{182}, 9, 2, 6; 2002 TT_{206}, 9, 1, 0; 2002 TG_{387}, 4, 1, 0; 2002 VK_{25}, 5, 1, 0; 2002 VZ_{115}, 4, 1, 0; 2003 BH_{76}, 15, 3, 4; 2003 DZ, 5, 1, 0; 2003 DL_{15}, 27, 3, 13; 2003 FN, 4, 1, 0; 2003 FO_{21}, 24, 4, 7; 2003 FH_{42}, 16, 2, 39; 2003 FX_{65}, 5, 1, 0; 2003 FS_{103}, 5, 1, 0; 2003 GY_{43}, 25, 5, 13; 2003 GJ_{51}, 5, 1, 0; 2003 HL, 18, 4, 61; 2003 HR_{52}, 4, 1, 0; 2003 MF_1, 15, 2, 3; 2003 MF_7, 5, 1, 0; 2003 QS_{94}, 11, 2, 7; 2003 SY_{400}, 10, 2, 3; 2003 UL_{203}, 4, 1, 0; 2004 EZ_{18}, 7, 1, 0; 2004 LG, 4, 1, 0; 2004 PX_{68}, 9, 2, 4; 2004 RA_{247}, 4, 1, 0; 2004 RD_{332}, 10, 2, 7; 2004 XU_{33}, 16, 2, 13; 2005 EH_{89}, 9, 2, 3; 2005 EQ_{138}, 16, 2, 10; 2005 ED_{170}, 26, 3, 13; 2005 EE_{170}, 16, 3, 13; 2005 GJ_{19}, 11, 2, 13; 2005 GH_{66}, 7, 1, 0; 2005 GW_{124}, 5, 1, 0; 2005 GB_{180}, 5, 1, 0; 2005 GZ_{212}, 4, 1, 0; 2005 JY_{19}, 5, 1, 0; 2005 JY_{36}, 18, 3, 17; 2005 JW_{68}, 5, 1, 0; 2005 JQ_{122}, 4, 1, 0; 2005 JT_{136}, 7, 1, 0; 2005 JZ_{150}, 4, 1, 0; 2005 JW_{165}, 12, 2, 3; 2005 MJ_{30}, 5, 1, 0; 2005 PH_2, 6, 1, 0; 2005 UQ_{121}, 6, 1, 0; 2005 UC_{166}, 7, 1, 0; 2005 VJ_{52}, 26, 3, 13; 2005 WF_{40}, 6, 1, 0; 2006 CW, 9, 1, 0; 2006 DK_{92}, 6, 1, 0; 2006 DY_{113}, 5, 1, 0; 2006 JQ_{21}, 12, 2, 3; 2006 KK_{13}, 12, 2, 3; 2006 KO_{47}, 4, 1, 0; 2006 KR_{76}, 8, 2, 13; 2006 PP_{20}, 4, 1, 0; 2006 QA_{31}, 14, 3, 34; 2006 QE_{178}, 5, 1, 0; 2006 SD_{151}, 15, 3, 33; 2006 SJ_{321}, 4, 1, 0; 2006 SU_{324}, 4, 1, 0; 2006 SQ_{392}, 4, 1, 0; 2006 WR_{150}, 4, 1, 0; 2006 XH_{34}, 4, 1, 0; 2007 BJ_{29}, 4, 1, 0; 2007 BB_{39}, 11, 2, 16; 2007 CD_4, 10, 2, 4; 2007 CY_{26}, 9, 2, 4; 2007 CH_{61}, 5, 1, 0; 2007 CE_{65}, 8, 2, 3; 2007 CJ_{79}, 5, 1, 0; 2007 DK_{30}, 4, 1, 0; 2007 DD_{40}, 10, 2, 3; 2007 DE_{62}, 10, 2, 23; 2007 DJ_{116}, 7, 1, 0; 2007 DO_{116}, 13, 2, 13; 2007 EP_{34}, 4, 1, 0; 2007 EB_{85}, 21, 3, 16; 2007 EW_{165}, 6, 1, 0; 2007 FQ_{12}, 6, 1, 0; 2007 GK_3, 4, 1, 0; 2007 GU_{27}, 18, 3, 10; 2007 GH_{31}, 20, 4, 7; 2007 GT_{61}, 4, 1, 0; 2007 HN, 19, 4, 32; 2007 HN_{78}, 4, 1, 0; 2007 HD_{79}, 8, 2, 1; 2007 HD_{95}, 4, 1, 0; 2007 HL_{97}, 14, 2, 3; 2007 JJ_9, 18, 2, 16; 2007 JM_9, 22, 2, 45; 2007 NX_1, 8, 2, 2; 2007 TJ_{51}, 8, 2, 10; 2007 TE_{81}, 11, 2, 13; 2007 TX_{377}, 5, 1, 0; 2007 TY_{447}, 4, 1, 0; 2007 UK_{74}, 11, 2, 13; 2007 VX_{125}, 4, 1, 0; 2008 CH_{211}, 14, 3, 16; 2008 EX_{39}, 6, 1, 0; 2008 FH_{122}, 5, 1, 0; 2008 GG_{103}, 5, 1, 0; 2008 GH_{114}, 9, 2, 13; 2008 HN_7, 4, 1, 0; 2008 HG_{17}, 5, 1, 0; 2008 KZ_{13}, 5, 1, 0; 2008 KL_{18}, 4, 1, 0; 2008 KQ_{31}, 4, 1, 0; 2008 LV_4, 9, 2, 4; 2008 LM_{10}, 8, 2, 3; 2008 PA_{18}, 5, 1, 0; 2008 QQ_{27}, 8, 1, 0; 2008 QQ_{34}, 4, 1, 0; 2008 QU_{45}, 4, 1, 0; 2008 SL_{123}, 6, 1, 0; 2008 TE_{40}, 5, 1, 0; 2008 TB_{139}, 6, 1, 0; 2008 UK_{85}, 4, 1, 0; 2008 UP_{106}, 4, 1, 0; 2008 YD_{66}, 25, 4, 11; 2008 YY_{100}, 4, 1, 0; 2009 BJ_{21}, 5, 1, 0; 2009 DW_{11}, 5, 1, 0; 2009 DJ_{17}, 11, 2, 7; 2009 DE_{134}, 5, 1, 0; 2009 EZ_{29}, 5, 1, 0; 2009 FE_2, 4, 1, 0; 2009 FX_7, 4, 1, 0; 2009 FT_8, 5, 1, 0; 2009 FT_{46}, 15, 2, 7; 2009 FH_{48}, 5, 1, 0; 2009 FA_{63}, 6, 1, 0; 2009 FY_{73}, 4, 1, 0; 2009 FO_{76}, 5, 1, 0; 2009 GW, 13, 2, 13; 2009 HM_{23}, 4, 1, 0; 2009 HD_{82}, 14, 3, 11; 2009 HE_{82}, 11, 2, 16; 2009 HP_{105}, 9, 1, 0; 2009 JR_2, 5, 1, 0; 2009 JY_{17}, 14, 3, 4; 2009 KY_3, 9, 1, 0; 2009 KM_6, 4, 1, 0; 2009 KA_{10}, 5, 1, 0; 2009 KE_{12}, 5, 1, 0; 2009 KU_{24}, 6, 1, 0; 2009 LF_1, 6, 1, 0; 2009 OM_9, 4, 1, 0; 2009 PH_{11}, 5, 1, 0; 2009 QT_{37}, 4, 1, 0; 2009 ST_{21}, 4, 1, 0; 2009 SG_{103}, 9, 2, 3; 2009 SR_{143}, 7, 1, 0; 2009 SK_{188}, 9, 2, 3; 2009 UP_3, 6, 1, 0; 2009 UH_{99}, 9, 2, 13; 2009 UB_{143}, 5, 1, 0; 2009 UY_{149}, 6, 1, 0; 2009 VQ_{39}, 7, 1, 0; 2009 VR_{40}, 6, 1, 0; 2009 VL_{47}, 5, 1, 0; 2009 WK_8, 7, 1, 0; 2009 WZ_{33}, 8, 2, 13; 2009 YA_{19}, 4, 1, 0; 2010 AD_{71}, 4, 1, 0; 2010 AK_{93}, 11, 1, 0; 2010 BC_{50}, 6, 1, 0; 2010 BL_{77}, 4, 1, 0; 2010 BX_{99}, 12, 3, 6; 2010 CH_{25}, 2, 1, 0; 2010 CL_{42}, 6, 1, 0; 2010 CC_{95}, 4, 1, 0; 2010 CG_{128}, 6, 1, 0; 2010 CK_{148}, 4, 1, 0; 2010 EX_{20}, 4, 1, 0; 2010 ET_{42}, 11, 2, 3; 2010 EB_{67}, 13, 2, 4; 2010 EF_{106}, 12, 2, 10; 2010 EG_{106}, 4, 1, 0; 2010 EV_{113}, 6, 1, 0; 2010 EW_{113}, 5, 1, 0; 2010 ER_{123}, 7, 1, 0; 2010 EN_{124}, 4, 1, 0; 2010 FB_7, 13, 2, 7; 2010 FL_{26}, 14, 3, 10; 2010 FU_{57}, 21, 4, 7; 2010 FJ_{121}, 6, 1, 0; 2010 GU_{96}, 4, 1, 0; 2010 GO_{172}, 4, 1, 0; 2010 HA_{93}, 2, 1, 0; 2010 JG_3, 4, 1, 0; 2010 JP_{102}, 5, 1, 0; 2010 KP_{10}, 7, 1, 0; 2010 KQ_{25}, 5, 1, 0; 2010 KY_{61}, 5, 1, 0; 2010 LD_{39}, 4, 1, 0; 2010 MT_{20}, 4, 1, 0; 2010 NW_1, 27, 4, 55; 2010 ND_{118}, 5, 1, 0; 2010 RM_{50}, 4, 1, 0; 2010 RT_{62}, 6, 1, 0; 2010 RU_{154}, 5, 1, 0; 2010 TD_{131}, 9, 2, 6; 2010 UN, 19, 3, 10; 2010 UZ_{77}, 12, 1, 0; 2010 VQ_1, 4, 1, 0; 2010 VU_{82}, 5, 1, 0; 2010 VO_{104}, 8, 1, 0; 2010 VL_{106}, 4, 1, 0; 2010 VU_{198}, 6, 1, 0; 2010 VN_{206}, 9, 2, 13; 2010 VV_{207}, 5, 1, 0; 2010 XL_{33}, 4, 1, 0; 2010 XN_{35}, 41, 7, 33; 2011 AF_5, 5, 1, 0; 2011 AT_{12}, 4, 1, 0; 2011 AB_{24}, 10, 2, 4; 2011 AE_{27}, 20, 3, 10; 2011 BC_{59}, 10, 1, 0; 2011 BP_{79}, 11, 2, 4; 2011 BL_{86}, 10, 2, 13; 2011 BR_{93}, 8, 2, 3; 2011 CB_5, 4, 1, 0; 2011 CF_7, 6, 1, 0; 2011 CR_{47}, 9, 2, 3; 2011 CJ_{78}, 4, 1, 0; 2011 DO_{26}, 4, 1, 0; 2011 EK_7, 9, 2, 3; 2011 EC_{10}, 12, 2, 7; 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G53 Alder Springs Observatory, Auberry

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Observer K. Levin
Measurer N. Teamo

0.51-m f/8.51 Ritchey-Chrétien + 4096×4096 CCD
USNO-B2.0

2016 HL_{10}, 3, 1, 0; *[3, 1, 0*, 2012/10/15]*

G80 Sierra Remote Observatories, Auberry

P. Mortfield, Sierra Remote Observatories, Auberry, CA 93602, U.S.A.
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Observers E. Coles, M. Helm
Measurers M. Micheli, E. Coles

0.40-m f/9 reflector + CCD
PPMXL

2015 BB_{474}, 3, 1, 0; (61364), 8, 1, 0; *[11, 2, 0*, 2016/04/04–2016/04/17]*

G92 Jarnac Observatory, Vail

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Observers D. H. Levy, W. Levy, T. Glinos

0.64-m f/7.2 Ritchey-Chrétien + CCD
USNO-A2.0

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G96 Mt. Lemmon Survey

E. Beshore, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A.
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Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly

1.5-m reflector + CCD
UCAC-4

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G98 Calvin-Rehoboth Observatory, Rehoboth

L. A. Molnar, Dept. of Physics & Astronomy, Calvin College, 1734 Knollcrest Circle SE, Grand Rapids, MI 49546, U.S.A. [lmolnar@calvin.edu]

0.4-m $f/8$ Ritchey-Chrétien + CCD

USNO-A2.0

(465316), 2, 1, 0; *[2, 1, 0∗, 2005/03/04]*

H01 Magdalena Ridge Observatory, Socorro

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

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

2.4-m $f/8.9$ reflector + CCD

PPMXL

2002 CX_{58}, 4, 1, 0; 2009 JR_2, 4, 1, 0; 2011 HA_{53}, 4, 1, 0; 2016 EJ_{203}, 7, 2, 30; 2016 FS_{60}, 4, 1, 0; 2016 GS_2, 15, 3, 15; 2016 GC_{252}, 4, 1, 0; 2016 HK, 4, 1, 0; 2016 HL, 4, 1, 0; 2016 HM, 4, 1, 0; 2016 HF_2, 2, 1, 0; 2016 HO_2, 4, 1, 0; 2016 HE_3, 4, 1, 0; 2016 HM_3, 4, 1, 0; 2016 JP_5, 4, 1, 0; 2016 JR_5, 4, 1, 0; 2016 JS_5, 4, 1, 0; 2016 JU_5, 4, 1, 0; 2016 JV_5, 4, 1, 0; 2016 JY_5, 4, 1, 0; 2016 JA_6, 4, 1, 0; 2016 JE_6, 4, 1, 0; 2016 JF_6, 4, 1, 0; 2016 JL_6, 4, 1, 0; 2016 JN_6, 4, 1, 0; 2016 JX_{11}, 8, 1, 0; 2016 JF_{12}, 8, 2, 2; 2016 JG_{12}, 4, 1, 0; 2016 JH_{12}, 4, 1, 0; 2016 JJ_{12}, 4, 1, 0; 2016 JP_{15}, 4, 1, 0; 2016 JA_{17}, 4, 1, 0; 2016 JJ_{17}, 4, 1, 0; 2016 JL_{17}, 4, 1, 0; 2016 JN_{17}, 4, 1, 0; 2016 JO_{17}, 4, 1, 0; 2016 JP_{17}, 8, 2, 1; 2016 JQ_{17}, 8, 2, 1; 2016 JE_{18}, 4, 1, 0; 2016 JF_{18}, 4, 1, 0; 2016 JH_{18}, 4, 1, 0; 2016 JS_{18}, 4, 1, 0; 2016 JM_{24}, 4, 1, 0; 2016 JN_{24}, 4, 1, 0; 2016 JQ_{24}, 8, 2, 1; 2016 JS_{24}, 4, 1, 0; 2016 JT_{24}, 4, 1, 0; 2016 JV_{24}, 4, 1, 0; 2016 JX_{24}, 4, 1, 0; 2016 JR_{28}, 4, 1, 0; 2016 JS_{28}, 8, 2, 1; 2016 JT_{28}, 4, 1, 0; 2016 JU_{28}, 4, 1, 0; 2016 JV_{28}, 4, 1, 0; 2016 JX_{28}, 4, 1, 0; 2016 JY_{28}, 4, 1, 0; 2016 JA_{29}, 8, 2, 1; 2016 JB_{29}, 4, 1, 0; 2016 JC_{29}, 8, 2, 1; 2016 JF_{29}, 4, 1, 0; 2016 JG_{29}, 4, 1, 0; *[288, 61, 0∗, 2016/03/11–2016/05/12]*

H06 iTelescope Observatory, Mayhill

M. Suzuki, 301 Mezon-do-Daihachi, 1571 Imaizumi-cho, Utsunomiya, Tochigi, 321-0962 Japan [mtnsuzuki@ybb.ne.jp] (12)
N. Falla, 34 Orchard Road, Chessington, Surrey KT9 1AN, England [n.falla@btopenworld.com] (20)
M. Urbanik, Moyzesova 1827, SK-02201 Cadca, Slovakia [stone@astronomie.cz] (42)
Observers D. Denisenko, S. Korotkiy, H. Sato, M. Suzuki, M. Urbanik, A. S. Betzler, N. Falla, M. Mattiazzo, B. Lütkenhöner
Measurers D. Denisenko, P. Kachalin, L. Lakiza, H. Sato, M. Suzuki, M. Urbanik, A. S. Betzler, N. Falla, M. Mattiazzo, B. Lütkenhöner
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, 0.25-m f/3.4 astrograph + CCD
USNO-B1.0, NOMAD, UCAC-4
{12} 2016 HO, 4, 1, 0; *[4, 1, 0∗, 2016/04/24]*

{20} 2015 BB_{474}, 6, 2, 1873; 2016 JE_{17}, 3, 1, 0; (163732), 3, 1, 0; (336007), 3, 1, 0; *[15, 4, 0∗, 2011/03/01–2016/05/08]*

{42} 2016 FY_3, 3, 1, 0; *[3, 1, 0∗, 2016/04/24]*

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
(466531), 3, 1, 0; *[3, 1, 0∗, 2007/02/16]*

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
UCAC-4
2003 GY_{43}, 3, 1, 0; 2006 SD_{151}, 3, 1, 0; 2007 DJ_{116}, 3, 1, 0; 2007 GU_{27}, 3, 1, 0; 2010 UN, 3, 1, 0; 2010 XN_{35}, 3, 1, 0; 2012 JT_{10}, 3, 1, 0; 2012 JH_{24}, 3, 1, 0; 2012 TS_{237}, 3, 1, 0; 2013 WE_{35}, 3, 1, 0; 2014 SB_{158}, 4, 1, 0; 2014 UE_{216}, 4, 1, 0; 2015 BZ_{73}, 3, 1, 0; 2015 BO_{319}, 4, 1, 0; 2015 YA_8, 3, 1, 0; 2016 AR_{15}, 4, 1, 0; 2016 EH_2, 3, 1, 0; 2016 ET_{37}, 3, 1, 0; 2016 EF_{201}, 3, 1, 0; 2016 EC_{203}, 3, 1, 0; 2016 FY_6, 3, 1, 0; 2016 GB, 3, 1, 0; 2016 GU_1, 3, 1, 0; 2016 GS_2, 3, 1, 0; 2016 GU_{112}, 4, 1, 0; 2016 GE_{165}, 4, 1, 0; 2016 GX_{179}, 3, 1, 0; 2016 GG_{205}, 4, 1, 0; 2016 GE_{222}, 3, 1, 0; 2016 GR_{239}, 3, 1, 0; 2016 HO, 3, 1, 0; 2016 HH_3, 4, 1, 0; 2016 HB_5 ∗, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JD_7, 3, 1, 0; 2016 JD_8, 3, 1, 0; 2016 JQ_8, 3, 1, 0; 2016 JR_8, 3, 1, 0; 2016 JJ_{15}, 3, 1, 0; 2016 JD_{23}, 4, 1, 0; 2016 JO_{23}, 4, 1, 0; 2016 JP_{27}, 4, 1, 0; 2016 JG_{30}, 4, 1, 0; 2016 JQ_{34}, 3, 1, 0; 2016 JD_{35}, 3, 1, 0; (86), 3, 1, 0; (94), 3, 1, 0; (101), 3, 1, 0; (126), 3, 1, 0; (160), 3, 1, 0; (168), 3, 1, 0; (169), 3, 1, 0; (210), 3, 1, 0; (263), 3, 1, 0; (281), 3, 1, 0; (284), 3, 1, 0; (321), 3, 1, 0; (512), 3, 1, 0; (513), 3, 1, 0; (537), 3, 1, 0; (601), 3, 1, 0; (615), 3, 1, 0; (628), 3, 1, 0; (691), 3, 1, 0; (727), 6, 2, 6; (732), 3, 1, 0; (801), 3, 1, 0; (820), 3, 1, 0; (870), 3, 1, 0; (886), 3, 1, 0; (915), 3, 1, 0; (1051), 6, 2, 6; (1094), 6, 2, 13; (1215), 6, 2, 7; (1216), 3, 1, 0; (1220), 3, 1, 0; (1222), 3, 1, 0; (1291), 3, 1, 0; (1355), 3, 1, 0; (1358), 3, 1, 0; (1392), 3, 1, 0; (1394), 3, 1, 0; (1445), 3, 1, 0; (1518), 3, 1, 0; (1534), 3, 1, 0; (1551), 3, 1, 0; (1575), 3, 1, 0; (1585), 3, 1, 0; (1595), 3, 1, 0; (1606), 3, 1, 0; (1629), 6, 2, 13; (1673), 3, 1, 0; (1715), 3, 1, 0; (1866), 3, 1, 0; (1950), 3, 1, 0; (1966), 3, 1, 0; (2058), 3, 1, 0; (2089), 3, 1, 0; (2146), 3, 1, 0; (2161), 3, 1, 0; (2183), 3, 1, 0; (2204), 3, 1, 0; (2244), 3, 1, 0; (2245), 3, 1, 0; (2290), 3, 1, 0; (2291), 3, 1, 0; 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(12730), 3, 1, 0; (12757), 3, 1, 0; (12815), 3, 1, 0; (12903), 3, 1, 0; (13204), 3, 1, 0; (13211), 3, 1, 0; (13278), 3, 1, 0; (13293), 3, 1, 0; (13378), 3, 1, 0; (13412), 3, 1, 0; (13477), 3, 1, 0; (13504), 3, 1, 0; (13505), 2, 1, 0; (13626), 3, 1, 0; (13633), 3, 1, 0; (13659), 3, 1, 0; (13728), 3, 1, 0; (13813), 3, 1, 0; (13814), 3, 1, 0; (13925), 3, 1, 0; (13956), 3, 1, 0; (14084), 3, 1, 0; (14116), 3, 1, 0; (14282), 3, 1, 0; (14315), 3, 1, 0; (14701), 3, 1, 0; (14742), 3, 1, 0; (14787), 3, 1, 0; (14789), 3, 1, 0; (14891), 3, 1, 0; (14940), 3, 1, 0; (15087), 3, 1, 0; (15185), 3, 1, 0; (15235), 3, 1, 0; (15256), 3, 1, 0; (15333), 3, 1, 0; (15398), 9, 3, 14; (15466), 9, 3, 14; (15523), 3, 1, 0; (15527), 3, 1, 0; (15539), 3, 1, 0; (15606), 3, 1, 0; (15613), 3, 1, 0; (15671), 3, 1, 0; (15719), 6, 2, 13; (15752), 3, 1, 0; (15803), 6, 2, 13; (15830), 3, 1, 0; (15878), 3, 1, 0; (15902), 3, 1, 0; (15939), 3, 1, 0; (15963), 3, 1, 0; (16037), 3, 1, 0; (16272), 3, 1, 0; (16278), 3, 1, 0; (16280), 3, 1, 0; 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(371673), 3, 1, 0; (376420), 3, 1, 0; (376517), 3, 1, 0; (378281), 3, 1, 0; (378316), 3, 1, 0; (379897), 3, 1, 0; (382128), 3, 1, 0; (385143), 3, 1, 0; (403741), 3, 1, 0; (408123), 3, 1, 0; (410534), 3, 1, 0; (413986), 3, 1, 0; (416057), 3, 1, 0; (416233), 3, 1, 0; (416249), 6, 2, 13; (419498), 3, 1, 0; (421421), 3, 1, 0; (423372), 3, 1, 0; (423389), 3, 1, 0; (424146), 3, 1, 0; (427381), 3, 1, 0; (427649), 3, 1, 0; (427830), 3, 1, 0; (429291), 3, 1, 0; (429323), 3, 1, 0; (430978), 2, 1, 0; (455398), 6, 2, 14; (455674), 3, 1, 0; (455721), 6, 2, 13; (456619), 3, 1, 0; (457246), 3, 1, 0; (457719), 6, 2, 14; (457735), 3, 1, 0; (457747), 3, 1, 0; (457760), 3, 1, 0; (458127), 3, 1, 0; (462067), 3, 1, 0; (462082), 3, 1, 0; (463008), 3, 1, 0; (463664), 3, 1, 0; (464077), 3, 1, 0; (464838), 4, 1, 0; (465098), 3, 1, 0; (465421), 3, 1, 0; (466169), 3, 1, 0; (466503), 3, 1, 0; (466608), 4, 1, 0; (467155), 4, 1, 0; (467254), 4, 1, 0; (467291), 4, 1, 0; *[6475, 1882, 1∗, 2010/11/04–2016/05/16]*

H21 Astronomical Research Observatory, Westfield

R. Holmes, 7168 NCR 2750E, Ashmore, IL 61912, U.S.A. [ari@astro-research.org]

Observer R. Holmes

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

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

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

2004 KH_{17}, 3, 1, 0; 2005 PH_2, 3, 1, 0; 2006 QS_{23}, 6, 2, 1; 2006 QA_{31}, 10, 3, 8; 2008 EO_6, 3, 1, 0; 2008 MN_1, 6, 2, 9; 2009 DL_{46}, 5, 1, 0; 2009 HD_{82}, 3, 1, 0; 2009 OO_9, 4, 1, 0; 2011 GL_{62}, 3, 1, 0; 2011 ME_5, 3, 1, 0; 2013 AW_{60}, 3, 1, 0; 2014 GF_{45}, 10, 3, 17; 2014 QX, 3, 1, 0; 2015 NK_3, 3, 1, 0; 2015 OV, 3, 1, 0; 2015 UT_{52}, 4, 1, 0; 2015 WC_{13}, 7, 2, 3; 2016 AJ_2, 6, 2, 13; 2016 AX_{147}, 3, 1, 0; 2016 AE_{165}, 3, 1, 0; 2016 AZ_{165}, 3, 1, 0; 2016 BF_1, 3, 1, 0; 2016 BU_{13}, 16, 3, 12; 2016 BX_{14}, 12, 4, 39; 2016 BZ_{14}, 3, 1, 0; 2016 CC_{30}, 6, 2, 7; 2016 CY_{31}, 3, 1, 0; 2016 CC_{32}, 2, 1, 0; 2016 CL_{32}, 3, 1, 0; 2016 CJ_{136}, 3, 1, 0; 2016 CF_{137}, 3, 1, 0; 2016 CW_{137}, 6, 2, 11; 2016 CX_{137}, 3, 1, 0; 2016 CF_{194}, 6, 2, 5; 2016 CJ_{195}, 3, 1, 0; 2016 CK_{195}, 3, 1, 0; 2016 CQ_{195}, 5, 2, 2; 2016 DV_{21}, 6, 2, 6; 2016 EF_{27}, 15, 5, 17; 2016 EM_{28}, 5, 2, 1; 2016 ER_{28}, 3, 1, 0; 2016 EG_{56}, 6, 2, 7; 2016 EM_{84}, 4, 1, 0; 2016 EC_{86}, 3, 1, 0; 2016 EP_{86}, 18, 6, 35; 2016 EE_{156}, 10, 2, 1; 2016 EG_{156}, 3, 1, 0; 2016 ED_{157}, 3, 1, 0; 2016 EE_{157}, 13, 2, 5; 2016 EK_{157}, 3, 1, 0; 2016 EE_{158}, 3, 1, 0; 2016 EL_{158}, 3, 1, 0; 2016 ED_{195}, 11, 2, 2; 2016 FE_1, 34, 3, 7; 2016 FF_1, 6, 2, 7; 2016 FT_3, 4, 1, 0; 2016 FU_3, 3, 1, 0; 2016 FY_3, 19, 2, 2; 2016 FA_4, 6, 2, 14; 2016 FS_6, 3, 1, 0; 2016 FD_{12}, 3, 1, 0; 2016 FE_{12}, 6, 2, 3; 2016 FF_{13}, 11, 3, 6; 2016 FR_{13}, 3, 1, 0; 2016 FU_{13}, 18, 4, 15; 2016 FV_{14}, 3, 1, 0; 2016 FD_{15}, 3, 1, 0; 2016 FF_{15}, 3, 1, 0; 2016 FG_{15}, 6, 2, 2; 2016 FK_{39}, 3, 1, 0; 2016 GY, 3, 1, 0; 2016 GZ, 3, 1, 0; 2016 GB_1, 3, 1, 0; 2016 GC_1, 7, 2, 2; 2016 GD_1, 2, 1, 0; 2016 GG_1, 3, 1, 0; 2016 GE_2, 24, 7, 31; 2016 GL_2, 6, 2, 3; 2016 GN_2, 6, 2, 1; 2016 GR_2, 3, 1, 0; 2016 GS_2, 27, 6, 28; 2016 GW_2, 5, 2, 1; 2016 GD_{134}, 5, 2, 1; 2016 GE_{134}, 18, 5, 33; 2016 GP_{134}, 9, 3, 33; 2016 GD_{135}, 3, 1, 0; 2016 GH_{135}, 26, 5, 14; 2016 GL_{135}, 3, 1, 0; 2016 GA_{207}, 3, 1, 0; 2016 GD_{207}, 10, 3, 3; 2016 GZ_{215}, 6, 2, 15; 2016 GF_{216}, 33, 9, 31; 2016 GV_{216}, 3, 1, 0; 2016 GP_{220}, 2, 1, 0; 2016 GQ_{220}, 3, 1, 0; 2016 GS_{220}, 4, 1, 0; 2016 GV_{220}, 37, 5, 14; 2016 GC_{221}, 5, 1, 0; 2016 GT_{221}, 7, 2, 15; 2016 GV_{221}, 10, 2, 1; 2016 GW_{221}, 13, 4, 19; 2016 GY_{221}, 5, 1, 0; 2016 GA_{222}, 3, 1, 0; 2016 GB_{222}, 4, 1, 0; 2016 GC_{222}, 4, 1, 0; 2016 GD_{222}, 4, 1, 0; 2016 GK_{222}, 3, 1, 0; 2016 GL_{222}, 3, 1, 0; 2016 GZ_{240}, 3, 1, 0; 2016 GX_{245}, 3, 1, 0; 2016 HB, 11, 3, 8; 2016 HF, 6, 2, 8; 2016 HL, 6, 1, 0; 2016 HM, 21, 5, 13; 2016 HF_2, 11, 2, 3; 2016 HM_2, 8, 3, 4; 2016 HN_2, 5, 2, 6; 2016 HE_3, 10, 3, 8; 2016 HF_3, 14, 4, 7; 2016 HL_3, 6, 2, 1; 2016 HP_3, 16, 5, 13; 2016 HX_3, 3, 1, 0; 2016 HO_6, 2, 1, 0; 2016 HC_{10}, 3, 1, 0; 2016 HT_{17}, 3, 1, 0; 2016 HD_{19}, 22, 5, 13; 2016 HF_{19}, 5, 2, 1; 2016 HJ_{19}, 3, 1, 0; 2016 HK_{19}, 11, 3, 9; 2016 HT_{19}, 9, 3, 7; 2016 JA, 3, 1, 0; 2016 JM, 6, 2, 2; 2016 JP, 9,

3, 7; 2016 JE_5, 6, 2, 7; 2016 JV_5, 4, 1, 0; 2016 JW_5, 13, 3, 9; 2016 JZ_5, 5, 1, 0; 2016 JA_6, 3, 1, 0; 2016 JC_6, 24, 2, 1; 2016 JL_6, 4, 1, 0; 2016 JM_6, 6, 2, 2; 2016 JU_{10}, 3, 1, 0; 2016 JX_{11}, 5, 1, 0; 2016 JH_{12}, 6, 2, 6; 2016 JK_{12}, 3, 1, 0; 2016 JP_{15}, 3, 1, 0; 2016 JZ_{16}, 3, 1, 0; 2016 JH_{17}, 3, 1, 0; 2016 JM_{17}, 3, 1, 0; 2016 JP_{17}, 10, 2, 2; 2016 JQ_{17}, 6, 2, 1; 2016 JD_{18}, 8, 2, 2; 2016 JF_{18}, 3, 1, 0; 2016 JG_{18}, 3, 1, 0; 2016 JB_{20}, 4, 1, 0; 2016 JJ_{24}, 3, 1, 0; 2016 JX_{24}, 3, 1, 0; 2016 JS_{28}, 3, 1, 0; 2016 JT_{28}, 4, 1, 0; 2016 JW_{28}, 6, 1, 0; 2016 JC_{29}, 3, 1, 0; 2016 JF_{29}, 6, 2, 2; 2016 JG_{29}, 4, 1, 0; 2016 JH_{29}, 3, 1, 0; 2016 JR_{33}, 3, 1, 0; 2016 JS_{33}, 3, 1, 0; 2016 JT_{33}, 4, 1, 0; 2016 JW_{33}, 3, 1, 0; 2016 JX_{33}, 3, 1, 0; 2016 JD_{34}, 3, 1, 0; 2016 JE_{34}, 5, 1, 0; 2016 KD, 3, 1, 0; (1685), 82, 11, 32; (1866), 7, 1, 0; (2368), 3, 1, 0; (3360), 6, 1, 0; (4769), 12, 2, 7; (5863), 27, 3, 19; (6050), 5, 1, 0; (6611), 7, 1, 0; (7350), 97, 10, 36; (7822), 5, 1, 0; (10150), 4, 1, 0; (11054), 5, 1, 0; (20826), 5, 1, 0; (23187), 18, 3, 8; (35396), 28, 3, 9; (36183), 20, 2, 6; (141761), 9, 3, 19; (154652), 3, 1, 0; (210012), 3, 1, 0; (267136), 5, 1, 0; (326291), 3, 1, 0; (329614), 3, 1, 0; (331509), 3, 1, 0; (337866), 9, 2, 17; (338567), 9, 3, 17; (361538), 14, 4, 28; (409934), 3, 1, 0; (450160), 10, 2, 1; (455795), 3, 1, 0; (456946), 3, 1, 0; (464798), 4, 1, 0; (465616), 8, 2, 2; (465930), 3, 1, 0; (467085), 3, 1, 0; *[1556, 207, 0∗, 2011/01/29–2016/05/19]*

H23 Pear Tree Observatory, Valparaiso

T. Haugh, 361 Okaloosa Ave, Valparaiso, FL 32580, U.S.A. [haugh@valp.net]
0.25-m $f/5.4$ Newtonian reflector + CCD
UCAC-4
(10391), 3, 1, 0; (78689), 3, 1, 0; (80047), 3, 1, 0; *[9, 3, 0∗, 2016/05/14]*

H36 Sandlot Observatory, Scranton

G. Hug, 964 W. 149th St., Scranton, KS 66537, U.S.A. [fast@nekaal.org]
0.56-m reflector + CCD
UCAC-4
2016 HN, 3, 1, 0; 2016 HM_2, 3, 1, 0; 2016 HF_3, 3, 1, 0; 2016 JP, 3, 1, 0; 2016 JW_5, 8, 2, 1; 2016 JZ_5, 3, 1, 0; 2016 JA_6, 4, 1, 0; 2016 JB_6, 5, 2, 1; 2016 JM_6, 2, 1, 0; 2016 JJ_{17}, 3, 1, 0; 2016 JD_{18}, 6, 2, 1; 2016 JT_{28}, 3, 1, 0; 2016 JG_{29}, 4, 1, 0; *[50, 13, 0∗, 2016/04/22–2016/05/13]*

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 $f/6$ astrograph + CCD
UCAC-4
2002 CX_{58}, 18, 2, 1; 2002 JA_9, 6, 1, 0; 2003 KO_2, 56, 7, 15; 2005 JC_{46}, 30, 5, 4; 2006 HV_5, 33, 5, 8; 2006 QA_{31}, 19, 3, 3; 2009 DL_{46}, 63, 10, 19; 2010 NW_1, 11, 2, 2; 2010 UN, 12, 2, 3; 2010 VU_{198}, 12, 2, 3; 2011 OP_{24}, 18, 3, 3; 2013 WT_{45}, 18, 3, 4; 2015 TX_{143}, 12, 2, 1; 2015 XB_{379}, 36, 6, 12; 2016 BU_{13}, 28, 4, 4; 2016 BX_{14}, 12, 2, 9; 2016 BZ_{14}, 17, 3, 3; 2016 EP_{86}, 18, 2, 2; 2016 EE_{156}, 30, 5, 9; 2016 FE_1, 10, 1, 0; 2016 FY_3, 10, 1, 0; 2016 GE_2, 6, 1, 0; 2016 GS_2, 50, 7, 10; 2016 GF_{216}, 20, 3, 4; 2016 HL, 26, 4, 4; 2016 HM, 18, 3, 3; 2016 HF_3, 58, 7, 12; 2016 HD_{19}, 18, 3, 3; 2016 JW_5, 6, 1, 0; 2016 JC_6, 8, 1, 0; 2016 JP_{17}, 8, 1, 0; 2016 JD_{18}, 25, 2, 1; (1685), 3, 1, 0; (1866), 6, 2, 11; (1951), 12, 2, 19; (3800), 3, 1, 0; (4587), 3, 1, 0; (5863), 6, 1, 0; (7350), 37, 6, 19; (7822), 6, 1, 0; (9400), 12, 2, 2; (23187), 54, 9, 20; (35396), 42, 7, 19; (36183), 6, 1, 0; (68216), 36, 6, 11; (86666), 12, 2, 3; (86667), 16, 3, 20; (101795), 3, 1, 0; (115916), 24, 4, 17; (137170), 24, 4, 17; (138325), 6, 1, 0; (141354), 12, 2, 14; (152671), 12, 2, 2; (154555), 30, 5, 11; (163243), 6, 1, 0; (168378), 6, 1, 0; (185851), 6, 1, 0; (248590), 17, 3, 12; (347449), 3, 1, 0; (388945), 6, 1, 0; (411201), 6, 1, 0; (465616), 8, 1, 0; (466508), 12, 2, 1; *[1147, 63, 0∗, 2016/04/23–2016/05/14]*

H47 Vicksburg

C. Bell, 107 Judson Circle, Vicksburg, MS 39180, U.S.A. [charbell@bellsouth.net]
0.3-m Schmidt-Cassegrain + CCD
UCAC-4
(80035), 3, 1, 0; *[3, 1, 0∗, 2016/05/14]*

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
2013 WT_{45}, 3, 1, 0; (3800), 3, 1, 0; (136108), 2, 2, 1; (136472), 2, 2, 1; (137170), 3, 1, 0; (154555), 3, 1, 0; (232701), 2, 1, 0; *[18, 7, 0∗, 2016/04/28–2016/05/13]*

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
2016 HL, 7, 2, 2; 2016 JC_6, 6, 1, 0; *[13, 2, 0∗, 2016/04/20–2016/05/04]*

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]
Observers D. Bodewits, R. Laher
Measurers F. Masci, M. Micheli
1.2-m $f/2.44$ Schmidt + CCD
SDSS, PPMXL
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Observers M. Masek, J. Jurysek, K. Honkova
0.3-m $f/10$ reflector + CCD
UCAC-4
2016 JC_6, 11, 2, 1; *[11, 1, 0*, 2016/05/04]*

I48 Observatorio El Catalejo, Santa Rosa

J. Spagnotto, Observatorio El Catalejo, 255 Mussio Street, Santa Rosa, La Pampa, Argentina [spagnotto@speedy.com.ar]
0.20-m $f/5$ reflector + CCD
UCAC-3
2016 HL, 3, 1, 0; *[3, 1, 0*, 2016/04/21]*

I50 P2 Observatory, Mayhill

A. Paquette, 121 Margaret Anne Drive, Carp, Ontario, Canada K0A 1L0 [andre@astrogeeks.com]
Observer J. Hare, D. Rowe
Measurer A. Paquette
0.5-m $f/6.8$ astrograph + CCD
UCAC-3
2016 JU_{26}, 3, 1, 0; *[3, 1, 0*, 2012/02/27]*

I52 Steward Observatory, Mt. Lemmon Station

E. Christensen, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A. eric@lpl.arizona.edu]
Observers A. R. Gibbs, R. A. Kowalski, D. C. Fuls, E. J. Christensen, G. J. Leonard
Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly
1.0-m reflector + CCD
UCAC-4

2002 CX_{58}, 12, 1, 0; 2006 HB_{103}, 3, 1, 0; 2006 SR_{145}, 4, 1, 0; 2007 VA_{218}, 4, 1, 0; 2009 JR_2, 4, 1, 0; 2009 SK_{188}, 4, 1, 0; 2009 WK_{75}, 8, 1, 0; 2010 HO_{37}, 4, 1, 0; 2010 TW_{16}, 4, 1, 0; 2010 VM_1, 4, 1, 0; 2011 KT_{30}, 4, 1, 0; 2012 CM_{10}, 8, 2, 1; 2012 DN_1, 3, 1, 0; 2012 KT_{50}, 4, 1, 0; 2012 OH_1, 4, 1, 0; 2012 UP_{27}, 3, 1, 0; 2013 CH_1, 4, 1, 0; 2013 QO_{73}, 4, 1, 0; 2013 RG_{95}, 4, 1, 0; 2013 TV_{23}, 4, 1, 0; 2013 TA_{141}, 4, 1, 0; 2013 YP_{150}, 4, 1, 0; 2014 MK_{27}, 4, 1, 0; 2014 TU_{34}, 4, 1, 0; 2015 BF_{256}, 4, 1, 0; 2015 WH_9, 4, 1, 0; 2016 AL_8, 2, 1, 0; 2016 AO_{164}, 4, 1, 0; 2016 BD_{14}, 8, 1, 0; 2016 CS_{29}, 3, 1, 0; 2016 CN_{259}, 4, 1, 0; 2016 CU_{259}, 16, 3, 2; 2016 CB_{261}, 7, 1, 0; 2016 DW_{21}, 3, 1, 0; 2016 EM_{28}, 3, 1, 0; 2016 EO_{181}, 11, 2, 1; 2016 FA_4, 3, 1, 0; 2016 FU_{13}, 4, 1, 0; 2016 GD_1, 3, 1, 0; 2016 GD_{134}, 3, 1, 0; 2016 GR_{220}, 4, 2, 6; 2016 GW_{221}, 4, 1, 0; 2016 GA_{232}, 4, 1, 0; 2016 HB, 4, 1, 0; 2016 HO, 3, 1, 0; 2016 HF_2, 9, 2, 2; 2016 HO_2, 3, 1, 0; 2016 HD_3, 3, 1, 0; 2016 HE_3, 11, 3, 8; 2016 HF_3, 4, 1, 0; 2016 HM_3, 5, 2, 3; 2016 HV_3, 14, 4, 8; 2016 HX_3, 12, 3, 8; 2016 HO_6, 10, 3, 10; 2016 HP_6, 7, 3, 2; 2016 HS_6, 10, 3, 7; 2016 HV_6, 2, 1, 0; 2016 HL_8, 4, 1, 0; 2016 HO_{11}, 4, 1, 0; 2016 HD_{19}, 4, 1, 0; 2016 HE_{19}, 3, 1, 0; 2016 HF_{19}, 21, 7, 9; 2016 HG_{19}, 8, 3, 8; 2016 HH_{19}, 3, 1, 0; 2016 HJ_{19}, 15, 4, 8; 2016 HK_{19}, 8, 1, 0; 2016 HL_{19}, 3, 1, 0; 2016 HQ_{19}, 6, 2, 8; 2016 HS_{23}, 4, 1, 0; 2016 JB, 18, 4, 4; 2016 JC, 9, 2, 1; 2016 JE, 7, 2, 3; 2016 JK, 3, 1, 0; 2016 JP, 24, 5, 9; 2016 JQ, 13, 4, 5; 2016 JR, 4, 1, 0; 2016 JS, 6, 2, 1; 2016 JT, 8, 2, 7; 2016 JB_4 *, 3, 1, 0; 2016 JF_4, 4, 1, 0; 2016 JG_4, 4, 1, 0; 2016 JF_5, 2, 1, 0; 2016 JG_5, 4, 1, 0; 2016 JK_5, 4, 1, 0; 2016 JL_5, 4, 1, 0; 2016 JO_5, 3, 1, 0; 2016 JP_5, 12, 3, 2; 2016 JQ_5, 6, 2, 3; 2016 JR_5, 3, 1, 0; 2016 JV_5, 4, 1, 0; 2016 JW_5, 12, 2, 1; 2016 JY_5, 11, 3, 6; 2016 JZ_5, 11, 2, 1; 2016 JA_6, 4, 1, 0; 2016 JB_6, 8, 2, 2; 2016 JE_6, 14, 4, 7; 2016 JF_6, 13, 4, 7; 2016 JG_6, 7, 2, 1; 2016 JH_6, 6, 2, 1; 2016 JJ_6, 8, 2, 1; 2016 JL_6, 4, 1, 0; 2016 JM_6, 14, 4, 5; 2016 JQ_7, 4, 1, 0; 2016 JR_7, 4, 1, 0; 2016 JC_8, 4, 1, 0; 2016 JS_{11}, 4, 1, 0; 2016 JX_{11}, 4, 1, 0; 2016 JP_{15}, 15, 4, 6; 2016 JY_{16}, 2, 1, 0; 2016 JA_{17}, 10, 3, 3; 2016 JH_{17}, 5, 2, 5; 2016 JJ_{17}, 8, 2, 4; 2016 JL_{17}, 3, 1, 0; 2016 JM_{17}, 4, 1, 0; 2016 JP_{17}, 8, 2, 3; 2016 JQ_{17}, 3, 1, 0; 2016 JR_{17}, 4, 1, 0; 2016 JW_{17}, 4, 1, 0; 2016 JC_{18}, 16, 4, 4; 2016 JD_{18}, 4, 1, 0; 2016 JE_{18}, 4, 1, 0; 2016 JF_{18}, 7, 2, 4; 2016 JH_{18}, 11, 3, 4; 2016 JL_{18}, 4, 1, 0; 2016 JN_{18}, 3, 1, 0; 2016 JO_{18}, 3, 1, 0; 2016 JQ_{18}, 3, 1, 0; 2016 JB_{19}, 4, 1, 0; 2016 JP_{20}, 12, 2, 1; 2016 JK_{23} *, 4, 1, 0; 2016 JL_{24}, 7, 2, 2; 2016 JM_{24}, 18, 4, 4; 2016 JP_{24}, 8, 2, 1; 2016 JQ_{24}, 6, 2, 1; 2016 JS_{24}, 4, 1, 0; 2016 JT_{24}, 7, 2, 1; 2016 JV_{24}, 7, 2, 2; 2016 JX_{24}, 4, 1, 0; 2016 JK_{25}, 4, 1, 0; 2016 JM_{26}, 3, 1, 0; 2016 JH_{27}, 4, 1, 0; 2016 JN_{27}, 4, 1, 0; 2016 JP_{27}, 3, 1, 0; 2016 JS_{28}, 9, 3, 2; 2016 JV_{28}, 4, 1, 0; 2016 JW_{28}, 4, 1, 0; 2016 JX_{28}, 12, 2, 1; 2016 JY_{28}, 3, 1, 0; 2016 JZ_{28}, 6, 2, 1; 2016 JA_{29}, 7, 2, 1; 2016 JG_{29}, 4, 1, 0; 2016 JM_{32}, 4, 1, 0; 2016 JK_{35}, 4, 1, 0; 2016 JJ_{36}, 4, 1, 0; (421), 3, 1, 0; (916), 4, 1, 0; (1220), 2, 1, 0; (1356), 4, 1, 0; (1619), 4, 1, 0; (1764), 4, 1, 0; (1924), 2, 1, 0; (1928), 4, 1, 0; (2086), 4, 1, 0; (2430), 8, 1, 0; (2891), 8, 1, 0; (4097), 4, 1, 0; (4858), 4, 1, 0; (5154), 4, 1, 0; (5406), 4, 1, 0; (5487), 4, 1, 0; (6253), 2, 1, 0; (6502), 3, 1, 0; (7146), 4, 1, 0; (7485), 4, 1, 0; (7551), 4, 1, 0; (7644), 4, 1, 0; (7960), 4, 1, 0; (7976), 4, 1, 0; (8317), 4, 1, 0; (8439), 4, 1, 0; (8727), 4, 1, 0; (9392), 2, 1, 0; (10552), 4, 1, 0; (10598), 8, 1, 0; (12633), 4, 1, 0; (13283), 4, 1, 0; (13982), 4, 1, 0; (14281), 4, 1, 0; (14557), 4, 1, 0; (16286), 4, 1, 0; (16310), 4, 1, 0; (16545), 4, 1, 0; (16699), 4, 1, 0; (17280), 4, 1, 0; (17501), 4, 1, 0; (17971), 4, 1, 0; (18093), 4, 1, 0; (18766), 4, 1, 0; (19563), 4, 1, 0; (20162), 8, 1, 0; (20716), 4, 1, 0; (21264), 4, 1, 0; (21291), 4, 1, 0; (21293), 3, 1, 0; (21490), 4, 1, 0; (22159), 4, 1, 0; (22411), 4, 1, 0; (22746), 4, 1, 0; (23281), 3, 1, 0; (23540), 4, 1, 0; (23652), 4, 1, 0; (23900), 4, 1, 0; (25002), 4, 1, 0; (25046), 4, 1, 0; (25066), 4, 1, 0; (26057), 12, 3, 2; (26269), 4, 1, 0; (26628), 4, 1, 0; (28019), 4, 1, 0; (29174), 4, 1, 0; (29187), 8, 1, 0; (29931), 2, 1, 0; (30251), 4, 1, 0; (30495), 4, 1, 0; (31540), 2, 1, 0; (31804), 4, 1, 0; (32043), 3, 1, 0; (32316), 3, 1, 0; (33156), 4, 1, 0; (34396), 4, 1, 0; (34460), 4, 1, 0; (34680), 4, 1, 0; (35237), 2, 1, 0; (35279), 4, 1, 0; (35637), 4, 1, 0; (35866), 3, 1, 0; (37733), 4, 1, 0; (37992), 4, 1, 0; (39343), 8, 1, 0; (39395), 12, 2, 1; (39528), 4, 1, 0; (39574), 8, 2, 1; (39587), 4, 1, 0; (39818), 12, 2, 1; (39880), 4, 1, 0; (40716), 4, 1, 0; (41690), 8, 1, 0; (41860), 4, 1, 0; (41865), 4, 1, 0; (41900), 4, 1, 0; (41931), 3, 1, 0; (42066), 4, 1, 0; (42181), 4, 1, 0; (42491), 4, 1, 0; (42882), 4, 1, 0; (43035), 8, 1, 0; (43415), 4, 1, 0; (44105), 3, 1, 0; (44161), 4, 1, 0; (45021), 4, 1, 0; (45032), 4, 1, 0; (45899), 4, 1, 0; (45922), 8, 2, 1; (46016), 4, 1, 0; (46033), 4, 1, 0; (46079), 4, 1, 0; (46380), 11, 1, 0; (47354), 4, 1, 0; (47450), 4, 1, 0; (47681), 4, 1, 0; (47847), 4, 1, 0; (48121), 4, 1, 0; (49016), 4, 1, 0; (49103), 4, 1, 0; (49814), 4, 1, 0; (50980), 4, 1, 0; (51290), 8, 1, 0; (51327), 4, 1, 0; (51721), 4, 1, 0; (53158), 4, 1, 0; (53262), 4, 1, 0; (53472), 4, 1, 0; (54816), 8, 1, 0; (57162), 4, 1, 0; (57570), 4, 1, 0; (57717), 4, 1, 0; (57942), 4, 1, 0; (58475), 4, 1, 0; (58702), 4, 1, 0; (59174), 2, 1, 0; (59605), 4, 1, 0; (59677), 8, 1, 0; (60002), 4, 1, 0; (60826), 4, 1, 0; (62420), 4, 1, 0; (62813), 4, 1, 0; (62929), 4, 1, 0; (63315), 3, 1, 0; (63667), 4, 1, 0; (63721), 7, 1, 0; (64203), 4, 1, 0; (65216), 4, 1, 0; (65247), 4, 1, 0; (65261), 4, 1, 0; (66386), 4, 1, 0; (66738), 3, 1, 0; (67249), 4, 1, 0; (67480), 4, 1, 0; (68242), 16, 1, 0; (68682), 4, 1, 0; (68804), 4, 1, 0; (68991), 16, 2, 1; (69392), 4, 1, 0; (69466), 4, 1, 0; (69802), 4, 1, 0; (70042), 4, 1, 0; (70104), 8, 1, 0; (70902), 4, 1, 0; (70973), 4, 1, 0; (71701), 4, 1, 0; (71954), 4, 1, 0; (72002), 4, 1, 0; (72084), 8, 2, 5; (72499), 3, 1, 0; (73548), 4, 1, 0; (73902), 4, 1, 0; (73963), 4, 1, 0; (74197), 4, 1, 0; (74492), 4, 1, 0; (74522), 8, 1, 0; (74570), 4, 1, 0; (74918), 4, 1, 0; (77267), 4, 1, 0; (77363), 4, 1, 0; (77533), 4, 1, 0; (77778), 4, 1, 0; (78775), 4, 1, 0; (78815), 4, 1, 0; (78838), 4, 1, 0; (80406), 8, 1, 0; (81212), 4, 1, 0; (81624), 8, 2, 1; (82126), 8, 1, 0; (83479), 3, 1, 0; (83899), 8, 1, 0; (84664), 4, 1, 0; (85017), 4, 1, 0; (85163), 4, 1, 0; (87491), 4, 1, 0; (87587), 4, 1, 0; (87866), 4, 1, 0; (87973), 4, 1, 0; (88081), 4, 1, 0; (88190), 4, 1, 0; (89207), 4, 1, 0; (90002), 4, 1, 0; (90569), 12, 2, 1; (90825), 4, 1, 0; (92942), 3, 1, 0; (96862), 3, 1, 0; (97673), 4, 1, 0; (98694), 4, 1, 0; (100109), 4, 1, 0; (101688), 4, 1, 0; (102251), 4, 1, 0; (103597), 4, 1, 0; (104049), 8, 1, 0; (104813), 4, 1, 0; (104994), 4, 1, 0; (105861), 3, 1, 0; (107222), 4, 1, 0; (107320), 4, 1, 0; (108185), 8, 1, 0; (108714), 4, 1, 0; (109081), 4, 1, 0; (109678), 4, 1, 0; (110009), 4, 1, 0; (112020), 3, 1, 0; (112441), 4, 1, 0; (112974), 3, 1, 0; (113836), 4, 1, 0; (114114), 4, 1, 0; (114694), 4, 1, 0; (114827), 3, 1, 0; (115317), 4, 1, 0; (115727), 11, 2, 1; (115915), 4, 1, 0; (116620), 4, 1, 0; (117120), 4, 1, 0; (118170), 4, 1, 0; (118892), 4, 1, 0; (119369), 8, 2, 1; (120831), 4, 1, 0; (122217), 4, 1, 0; (122610), 12, 2, 1; (122794), 8, 1, 0; (123565), 3, 1, 0; (123771), 4, 1, 0; (125412), 4, 1, 0; (126212), 7, 2, 5; (127207), 4, 1, 0; (129176), 4, 1, 0; (129721), 4, 1, 0; (129743), 8, 1, 0; (130224), 4, 1, 0; (133122), 4, 1, 0; (134669), 4, 1, 0; (134737), 15, 3, 2; (135051), 4, 1, 0; (135354), 7, 1, 0; (135408), 4, 1, 0; (137643), 11, 2, 1; (137797), 4, 1, 0; (139192), 4, 1, 0; (140766), 12, 2, 1; (141586), 4, 1, 0; (141625), 4, 1, 0; (142229), 4, 1, 0; (142451), 4, 1, 0; (143640), 4, 1, 0; (147100), 4, 1, 0; (150782), 4, 1, 0; (150856), 4, 1, 0; (151168), 4, 1, 0; (151748), 4, 1, 0; (151762), 3, 1, 0; (151785), 4, 1, 0; (152811), 4, 1, 0; (153620), 8, 1, 0; (153664), 4, 1, 0; (153746), 8, 1, 0; (153973), 4, 1, 0; (154490), 4, 1, 0; (154506), 4, 1, 0; (154521), 3, 1, 0; (154567), 4, 1, 0; (155232), 4, 1, 0; (156455), 4, 1, 0; (156495), 4, 1, 0; (157269), 9, 1, 0; (157687), 11, 1, 0; (158102), 16, 2, 1; (158111), 3, 1, 0; (158469), 3, 1, 0; (158498), 4, 1, 0; (158959), 8, 1, 0; (159389), 3, 1, 0; (159676), 4, 1, 0; (159899), 4, 1, 0; (161248), 12, 1, 0; (161449), 4, 1, 0; (163397), 4, 1, 0; (165856), 4, 1, 0; (166063), 7, 1, 0; (166887), 4, 1, 0; (166891), 4, 1, 0; (167567), 4, 1, 0; (169218), 4, 1, 0; (169259), 4, 1, 0; (169361), 3, 1, 0; (169457), 4, 1, 0; (170541), 4, 1, 0; (171223), 4, 1, 0; (171228), 4, 1, 0; (171561), 3, 1, 0; (172443), 16, 2, 1; (172874), 8, 1, 0; (173531), 4, 1, 0; (173644), 4, 1, 0; (175704), 3, 1, 0; (176102), 4, 1, 0; (177683), 4, 1, 0; (181058), 3, 1, 0; (183061), 16, 3, 2; (185840), 4, 1, 0; (186571), 4, 1, 0; (187740), 4, 1, 0; (188471), 4, 1, 0; (189775), 4, 1, 0; (191163), 4, 1, 0; (191705), 4, 1, 0; (192375), 3, 1, 0; (196177), 4, 1, 0; (196989), 4, 1, 0; (201872), 4, 1, 0; (201890), 3, 1, 0; (202363), 4, 1, 0; (203848), 4, 1, 0; (204146), 4, 1, 0; (204177), 7, 2, 1; (204259), 4, 1, 0; (205627), 4, 1, 0; (207406), 12, 3, 2; (207465), 12, 2, 1; (207898), 4, 1, 0; (209044), 16, 3, 2; (213235), 4, 1, 0; (214162), 4, 1, 0; (214174), 4, 1, 0; (215230), 4, 1, 0; (215678), 4, 1, 0; (216588), 4, 1, 0; (216730), 4, 1, 0; (217193), 2, 1, 0; (219632), 4, 1, 0; (222547), 4, 1, 0; (222727), 4, 1, 0; (224030), 4, 1, 0; (224684), 3, 1, 0; (226800), 4, 1, 0; (228355), 3, 1, 0; (231714), 4, 1, 0; (232679), 4, 1, 0; (232715), 3, 1, 0; (234386), 4, 1, 0; (235493), 4, 1, 0; (236006), 8, 1, 0; (237677), 3, 1, 0; (241317), 4, 1, 0; (242324), 4, 1, 0; (243419), 3, 1, 0; (244984), 4, 1, 0; (245280), 4, 1, 0; (245827), 12, 1, 0; (245939), 3, 1, 0; (246025), 4, 1, 0; (246389), 3, 1, 0; (247049), 3, 1, 0; (247358), 4, 1, 0; (252159), 8, 1, 0; (252744), 4, 1, 0; (253531), 4, 1, 0; (257389), 4, 1, 0; (257892), 4, 1, 0; (258225), 4, 1, 0; (258233), 10, 1, 0; (259883), 4, 1, 0; (259968), 4, 1, 0; (261977), 12, 2, 1; (262511), 4, 1, 0; (266398), 3, 1, 0; (266860), 4, 1, 0; (267499), 4, 1, 0; (268611), 4, 1, 0; (269280), 12, 2, 1; (270390), 4, 1, 0; (270694), 4, 1, 0; (272124), 4, 1, 0; (273068), 3, 1, 0; (274018), 4, 1, 0; (274282), 4, 1, 0; (275247), 8, 2, 1; (275348), 4, 1, 0; (276454), 4, 1, 0; (276498), 4, 1, 0; (277099), 8, 1, 0; (280383), 3, 1, 0; (280409), 4, 1, 0; (280423), 4, 1, 0; (280718), 4, 1, 0; (281070), 4, 1, 0; (281677), 3, 1, 0; (281726), 8, 1, 0; (282330), 8, 2, 1; (284372), 3, 1, 0; (284644), 4, 1, 0; (285873), 3, 1, 0; (287541), 4, 1, 0; (288317), 4, 1, 0; (289823), 4, 1, 0; (291901), 4, 1, 0; (293056), 4, 1, 0; (307014), 4, 1, 0; (314093), 4, 1, 0; (315261), 4, 1, 0; (317643), 4, 1, 0; (317780), 12, 1, 0; (318098), 4, 1, 0; (320456), 4, 1, 0; (323388), 4, 1, 0; (324058), 4, 1, 0; (328259), 4, 1, 0; (328277), 4, 1, 0; (329353), 4, 1, 0; (329375), 4, 1, 0; (330404), 4, 1, 0; (331472), 4, 1, 0; (332117), 7, 2, 1; (332138), 15, 3, 2; (332727), 4, 1, 0; (332870), 4, 1, 0; (335663), 4, 1, 0; (336007), 3, 1, 0; (336844), 12, 3, 2; (340740), 4, 1, 0; (341621), 4, 1, 0; (341687), 4, 1, 0; (343535), 4, 1, 0; (343947), 4, 1, 0; (369565), 3, 1, 0; (370421), 4, 1, 0; (370731), 4, 1, 0; (371073), 4, 1, 0; (371587), 3, 1, 0; (371616), 4, 1, 0; (371731), 4, 1, 0; (372368), 4, 1, 0; (372544), 4, 1, 0; (372895), 4, 1, 0; (373730), 4, 1, 0; (375311), 4, 1, 0; (375331), 4, 1, 0; (375910), 4, 1, 0; (376087), 4, 1, 0; (377206), 8, 2, 1; (377301), 3, 1, 0; (377818), 8, 2, 1; (377985), 4, 1, 0; (380307), 4, 1, 0; (382376), 7, 1, 0; (389309), 4, 1, 0; (392706), 8, 2, 1; (409127), 4, 1, 0; (414568), 4, 1, 0; (415763), 3, 1, 0; (417292), 4, 1, 0; (417411), 4, 1, 0; (417931), 4, 1, 0; (419308), 3, 1, 0; (421427), 3, 1, 0; (423395), 3, 1, 0; (425042), 4, 1, 0; (425396), 4, 1, 0; (426322), 4, 1, 0; (426870), 4, 1, 0; (427542), 4, 1, 0; (427806), 4, 1, 0; (429278), 4, 1, 0; (429295), 4, 1, 0; (430239), 4, 1, 0; (430322), 3, 1, 0; (442763), 8, 2, 1; (455700), 4, 1, 0; (462780), 1, 1, 0; (463265), 4, 1, 0; (463373), 4, 1, 0; (464017), 16, 3, 2; (464893), 4, 1, 0; (464909), 4, 1, 0; (467016), 4, 1, 0; *[3284, 650, 2*, 2016/03/12–2016/05/12]*

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
(1866), 2, 1, 0; *[2, 1, 0*, 2016/05/02]*

I72 Observatorio Carpe-Noctem, Madrid

J. L. Martin, Po. Maliciosa, 54, 28450 Madrid, Spain
[martinvelasco.joseluis@gmail.com]

0.30-m Ritchey-Chrétien + CCD
CMC-15
(3318), 6, 2, 1; *[6, 1, 0*, 2016/05/02–2016/05/03]*

I83 Cherryvalley Observatory, Rathmolyon
M. Foylan, 14 Cherryvalley Copse, Rathmolyon, Meath, Ireland [foylanm@esatclear.ie]
0.20-m f/07.5 Schmidt-Cassegrain + CCD
UCAC-3
(1715), 14, 4, 18; *[14, 1, 0∗, 2016/04/08–2016/04/27]*

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
2016 HF_3, 3, 1, 0; 2016 JP_5, 2, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 3, 1, 0; 2016 JE_6, 3, 1, 0; 2016 JF_6, 3, 1, 0; 2016 JM_6, 2, 1, 0; 2016 JP_{15}, 3, 1, 0; 2016 JX_{24}, 3, 1, 0; 2016 JW_{28}, 3, 1, 0; *[31, 11, 0∗, 2016/04/28–2016/05/11]*

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 D. Abreu, P. Ruiz
Measurers M. Micheli, D. Koschny, A. Knöfel, E. Schwab, M. Busch, H. Bill, P. Geffert, F. Hormuth, G. Lehmann, J. Linder, F. Ocana, R. Reszelewski, S. Shurpakov, U. Carsenty, P. Schmeer, T. Thommes
1.0-m f/4.4 reflector + CCD
UCAC-4, USNO-A2.0, PPMXL
2003 GM_{21}, 2, 1, 0; 2006 TG_{86}, 3, 1, 0; 2007 CN_{28}, 2, 1, 0; 2008 QY_{37}, 3, 1, 0; 2009 CQ_3, 3, 1, 0; 2011 BK_{56}, 3, 1, 0; 2011 BB_{129}, 2, 1, 0; 2011 UR_{146}, 2, 1, 0; 2012 BL_{149}, 2, 1, 0; 2012 FU_{82}, 3, 1, 0; 2012 VO_5, 5, 2, 1; 2013 BN_{35}, 3, 1, 0; 2013 CA_{79}, 3, 1, 0; 2013 KJ_6, 5, 2, 3; 2014 DJ_{112}, 4, 2, 1; 2014 HD_{124}, 4, 2, 1; 2014 JM_{25}, 1, 1, 0; 2014 OB_{315}, 3, 1, 0; 2014 TE_{21}, 3, 1, 0; 2014 TN_{70}, 4, 1, 0; 2014 WT_{165}, 3, 1, 0; 2014 WG_{260}, 4, 1, 0; 2014 WJ_{478}, 3, 1, 0; 2014 YT_9, 2, 1, 0; 2015 FQ_{334}, 3, 1, 0; 2015 HH_{10}, 3, 1, 0; 2015 HC_{74}, 4, 1, 0; 2015 HP_{81}, 4, 1, 0; 2015 KJ_{157}, 3, 2, 1; 2015 PJ_{39}, 3, 1, 0; 2016 CT_{260}, 3, 1, 0; 2016 CL_{261}, 4, 1, 0; 2016 GW_{184}, 3, 1, 0; 2016 GP_{245}, 4, 1, 0; 2016 GH_{248}, 3, 1, 0; 2016 HM_2, 3, 1, 0; 2016 HF_3, 5, 2, 1; 2016 HJ_3, 4, 1, 0; 2016 HS_5, 2, 1, 0; 2016 HU_5, 3, 1, 0; 2016 HV_5, 2, 1, 0; 2016 HR_6, 3, 1, 0; 2016 HM_{16}, 2, 1, 0; 2016 HE_{19}, 3, 1, 0; 2016 HF_{19}, 3, 1, 0; 2016 HL_{20}, 3, 1, 0; 2016 JA, 6, 2, 2; 2016 JB, 3, 1, 0; 2016 JQ, 3, 1, 0; 2016 JD_4, 4, 1, 0; 2016 JX_4, 4, 1, 0; 2016 JS_5, 3, 1, 0; 2016 JX_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 3, 1, 0; 2016 JA_6, 3, 1, 0; 2016 JN_6, 2, 1, 0; 2016 JX_6, 3, 1, 0; 2016 JP_9, 3, 1, 0; 2016 JJ_{12}, 2, 1, 0; 2016 JB_{13}, 4, 1, 0; 2016 JC_{13}, 4, 1, 0; 2016 JD_{13}, 4, 1, 0; 2016 JE_{13}, 4, 1, 0; 2016 JF_{13}, 4, 1, 0; 2016 JG_{13}, 4, 1, 0; 2016 JP_{15}, 2, 1, 0; 2016 JU_{18} ∗, 2, 1, 0; 2016 JV_{18} ∗, 3, 1, 0; 2016 JY_{18} ∗, 4, 1, 0; 2016 JZ_{18} ∗, 4, 1, 0; 2016 JA_{19} ∗, 4, 1, 0; 2016 JE_{21}, 2, 1, 0; 2016 JX_{22}, 4, 1, 0; 2016 JC_{23}, 4, 1, 0; 2016 JT_{23}, 4, 1, 0; 2016 JF_{26}, 4, 1, 0; 2016 JX_{26}, 4, 1, 0; 2016 JJ_{30}, 4, 1, 0; 2016 JA_{31}, 4, 1, 0; 2016 JE_{31}, 3, 1, 0; 2016 JM_{31}, 8, 1, 0; 2016 JL_{32}, 3, 1, 0; 2016 JN_{35}, 4, 1, 0; 2016 JC_{36}, 4, 1, 0; (141531), 3, 1, 0; (420348), 3, 1, 0; (465796), 3, 1, 0; (466716), 3, 1, 0; *[294, 89, 5∗, 2010/08/18–2016/05/06]*

J13 La Palma-Liverpool Telescope
M. Altman, Astronomisches Recheninstitut der Universität Heidelberg, Moenchhofstr. 12-14,D-69120 Heidelberg, Germany [maltmann@ari.uni-heidelberg.de] (6)
Observers M. Altmann, I. Steele, J. Marchant
Measurers C. Barache, S. Bouquillon, T. Carlucci, F. Taris
2.0-m f/10 Ritchey-Chrétien + CCD
PPMXL
2012 BP_{126}, 15, 1, 0; 2015 BJ_{94}, 11, 1, 0; (66812), 7, 1, 0; (73894), 7, 1, 0; (83905), 17, 1, 0; (92364), 20, 1, 0; (101404), 7, 1, 0; (110520), 5, 1, 0; (130612), 20, 1, 0; (133412), 20, 1, 0; (141665), 18, 1, 0; (143802), 14, 1, 0; (187910), 20, 1, 0; (233558), 7, 1, 0; (237363), 19, 1, 0; (318456), 20, 1, 0; (322686), 18, 1, 0; (323716), 19, 1, 0; (337528), 20, 1, 0; (342945), 6, 1, 0; (373180), 18, 1, 0; (373553), 16, 1, 0; (376308), 13, 1, 0; (432031), 11, 1, 0; *[348, 24, 0∗, 2016/04/27–2016/05/18]*

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
(2127), 3, 1, 0; (2655), 3, 1, 0; (4672), 3, 1, 0; *[9, 3, 0∗, 2016/04/29]*

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 M. Ory, C. Rinner
0.5-m f/3 reflector + CCD
UCAC-4
2002 JA_9, 8, 2, 1; 2002 RS_{291}, 4, 1, 0; 2006 KK_{13}, 8, 2, 1; 2006 XC_{63}, 4, 1, 0; 2009 HR_{46}, 4, 1, 0; 2009 KM_6, 4, 1, 0; 2011 AB_{24}, 4, 1, 0; 2011 GZ_{70}, 4, 1, 0; 2011 HD_{39}, 4, 1, 0; 2012 FX_{30}, 4, 1, 0; 2012 HV_{11}, 4, 1, 0; 2012 HA_{27}, 4, 1, 0; 2012 KE_{49}, 5, 1, 0; 2012 MC_3, 4, 1, 0; 2012 MA_6, 4, 1, 0; 2012 MS_8, 16, 4, 17; 2012 RY, 4, 1, 0; 2012 SF, 4, 1, 0; 2012 SD_{53}, 4, 1, 0; 2013 JD_{42}, 4, 1, 0; 2014 SP_{261}, 4, 1, 0; 2014 YE_5, 4, 1, 0; 2015 BR_{59}, 4, 1, 0; 2015 BB_{474}, 4, 1, 0; 2015 DB_{117}, 8, 2, 8; 2016 EF_{141}, 4, 1, 0; 2016 FY_6, 4, 1, 0; 2016 FP_9, 4, 1, 0; 2016 FX_{11}, 4, 1, 0; 2016 GP_{68}, 4, 1, 0; 2016 GY_{68}, 4, 1, 0; 2016 GW_{150}, 8, 2, 1; 2016 GE_{158}, 4, 1, 0; 2016 GR_{180}, 8, 2, 8; 2016 GT_{216}, 4, 1, 0; 2016 GK_{242}, 4, 1, 0; 2016 GE_{246}, 3, 1, 0; 2016 GG_{246}, 4, 1, 0; 2016 HJ_3 ∗, 8, 2, 8; 2016 HS_3, 4, 1, 0; 2016 HX_3 ∗, 10, 3, 17; 2016 HB_5, 12, 3, 9; 2016 HO_{23} ∗, 8, 2, 8; 2016 HW_{23} ∗, 7, 2, 8; 2016 JP_6, 4, 1, 0; 2016 JW_{11}, 4, 1, 0; 2016 JR_{13}, 8, 2, 1; 2016 JX_{16} ∗, 8, 2, 1; 2016 JR_{17}, 4, 1, 0; 2016 JO_{23}, 4, 1, 0; 2016 JZ_{24} ∗, 7, 2, 1; 2016 JR_{30}, 4, 1, 0; 2016 JX_{36}, 12, 3, 18; 2016 JT_{37}, 8, 2, 1; 2016 JX_{37}, 4, 1, 0; (66), 4, 1, 0; (81), 4, 1, 0; (219), 8, 2, 1; (1362), 4, 1, 0; (2089), 8, 2, 18; (2529), 4, 1, 0; (2657), 4, 1, 0; (2862), 4, 1, 0; (3497), 4, 1, 0; (4192), 4, 1, 0; (4194), 20, 5, 18; (4529), 12, 3, 17; (4755), 4, 1, 0; (5078), 4, 1, 0; (5491), 4, 1, 0; (6005), 4, 1, 0; (6032), 4, 1, 0; (6472), 4, 1, 0; (6672), 4, 1, 0; (7178), 4, 1, 0; (7400), 4, 1, 0; (7485), 8, 2, 1; (7594), 16, 4, 18; (7927), 4, 1, 0; (8087), 12, 3, 9; (8365), 4, 1, 0; (8509), 4, 1, 0; (8844), 4, 1, 0; (9140), 4, 1, 0; (9229), 4, 1, 0; (9651), 4, 1, 0; (10604), 12, 3, 18; (11232), 12, 3, 9; (11574), 4, 1, 0; (11711), 4, 1, 0; (12089), 4, 1, 0; (12648), 4, 1, 0; (13418), 4, 1, 0; (13633), 4, 1, 0; (13895), 4, 1, 0; (13910), 12, 3, 17; (14702), 4, 1, 0; (14848), 4, 1, 0; (14915), 4, 1, 0; 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1, 0; (71446), 16, 4, 18; (71559), 4, 1, 0; (71624), 4, 1, 0; (71705), 4, 1, 0; (72129), 8, 2, 9; (72209), 4, 1, 0; (72886), 8, 2, 8; (73076), 11, 3, 10; (73488), 4, 1, 0; (73681), 4, 1, 0; (73982), 8, 2, 1; (74409), 4, 1, 0; (74445), 4, 1, 0; (74495), 4, 1, 0; (74497), 16, 4, 17; (74538), 12, 3, 9; (74939), 4, 1, 0; (75085), 4, 1, 0; (75985), 4, 1, 0; (76064), 4, 1, 0; (76065), 4, 1, 0; (76189), 4, 1, 0; (76361), 4, 1, 0; (76449), 20, 5, 18; (76711), 4, 1, 0; (78312), 4, 1, 0; (78645), 8, 1, 0; (78759), 12, 3, 18; (79037), 4, 1, 0; (79625), 4, 1, 0; (81212), 4, 1, 0; (81260), 4, 1, 0; (81488), 4, 1, 0; (81839), 4, 1, 0; (81847), 4, 1, 0; (81941), 4, 1, 0; (82406), 4, 1, 0; (82710), 8, 2, 17; (83362), 4, 1, 0; (83473), 8, 2, 1; (83959), 4, 1, 0; (84395), 4, 1, 0; (84773), 17, 4, 10; (84881), 3, 1, 0; (85038), 4, 1, 0; (85041), 4, 1, 0; (85955), 8, 2, 9; (87012), 4, 1, 0; (87039), 4, 1, 0; (87073), 8, 2, 9; (87173), 4, 1, 0; (87789), 4, 1, 0; (87981), 4, 1, 0; (88185), 4, 1, 0; (88423), 8, 2, 9; (88454), 4, 1, 0; (89068), 8, 2, 9; (89661), 4, 1, 0; (89853), 8, 2, 17; (89955), 4, 1, 0; (90475), 8, 2, 1; (90734), 4, 1, 0; (90922), 4, 1, 0; (91038), 4, 1, 0; (91378), 4, 1, 0; (92341), 4, 1, 0; (92354), 4, 1, 0; (92587), 4, 1, 0; (93087), 4, 1, 0; (93653), 4, 1, 0; (93664), 4, 1, 0; (93719), 4, 1, 0; (94120), 8, 2, 1; (94147), 4, 1, 0; (94638), 4, 1, 0; (95254), 8, 2, 9; (95395), 8, 2, 8; (95910), 4, 1, 0; (96405), 4, 1, 0; (96774), 4, 1, 0; (96989), 4, 1, 0; (97342), 3, 1, 0; (97499), 4, 1, 0; (97831), 4, 1, 0; (98120), 4, 1, 0; (98228), 4, 1, 0; (98301), 4, 1, 0; (98315), 4, 1, 0; (98433), 4, 1, 0; (99957), 4, 1, 0; (100824), 4, 1, 0; (100934), 4, 1, 0; (100936), 4, 1, 0; (101637), 12, 3, 10; (101753), 13, 3, 9; (101814), 4, 1, 0; (102103), 4, 1, 0; (103797), 4, 1, 0; (104417), 8, 2, 9; (104480), 4, 1, 0; (104530), 4, 1, 0; (104581), 4, 1, 0; (105057), 4, 1, 0; (105310), 4, 1, 0; (107388), 4, 1, 0; (107785), 4, 1, 0; (108017), 4, 1, 0; (109160), 4, 1, 0; (109171), 4, 1, 0; (109235), 4, 1, 0; 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(160265), 4, 1, 0; (160545), 4, 1, 0; (160721), 4, 1, 0; (160952), 4, 1, 0; (160963), 4, 1, 0; (161821), 4, 1, 0; (162973), 4, 1, 0; (163353), 4, 1, 0; (163452), 8, 2, 1; (163493), 4, 1, 0; (164371), 4, 1, 0; (165842), 4, 1, 0; (166258), 4, 1, 0; (166654), 4, 1, 0; (166724), 8, 2, 8; (166863), 4, 1, 0; (166902), 4, 1, 0; (167576), 4, 1, 0; (167586), 8, 2, 1; (167970), 12, 3, 17; (167976), 4, 1, 0; (168283), 4, 1, 0; (168462), 4, 1, 0; (168704), 4, 1, 0; (168784), 4, 1, 0; (170848), 8, 2, 9; (170938), 4, 1, 0; (171401), 4, 1, 0; (173018), 4, 1, 0; (173087), 4, 1, 0; (173175), 4, 1, 0; (174748), 4, 1, 0; (174857), 4, 1, 0; (175791), 4, 1, 0; (177388), 4, 1, 0; (177605), 4, 1, 0; (178298), 4, 1, 0; (182441), 4, 1, 0; (182658), 4, 1, 0; (183301), 4, 1, 0; (183466), 4, 1, 0; (185869), 16, 4, 17; (185998), 4, 1, 0; (187486), 4, 1, 0; (187490), 4, 1, 0; (188747), 4, 1, 0; (188868), 8, 2, 1; (189064), 4, 1, 0; (189792), 8, 2, 1; (189850), 4, 1, 0; (189857), 8, 2, 1; (189858), 4, 1, 0; (190071), 12, 3, 9; (190121), 4, 1, 0; (190689), 8, 2, 1; (191016), 4, 1, 0; (191113), 4, 1, 0; (191287), 12, 3, 9; (191671), 4, 1, 0; (192184), 8, 2, 17; (192746), 4, 1, 0; (195591), 4, 1, 0; (196059), 4, 1, 0; (196119), 8, 2, 17; (196424), 12, 3, 10; (198794), 4, 1, 0; (198845), 4, 1, 0; (199742), 4, 1, 0; (201312), 4, 1, 0; (201577), 8, 2, 1; (202358), 4, 1, 0; (204569), 4, 1, 0; (205294), 12, 3, 17; (205672), 4, 1, 0; (206292), 4, 1, 0; (208603), 4, 1, 0; (210085), 8, 2, 9; (211118), 4, 1, 0; (211998), 8, 2, 1; (212799), 13, 3, 9; (213041), 4, 1, 0; (213851), 4, 1, 0; (213926), 4, 1, 0; (214125), 4, 1, 0; (214953), 8, 2, 17; (215649), 4, 1, 0; (215689), 4, 1, 0; (217113), 8, 2, 10; (217583), 4, 1, 0; (218114), 4, 1, 0; (218611), 4, 1, 0; (219923), 4, 1, 0; (220315), 4, 1, 0; (221319), 4, 1, 0; (222298), 4, 1, 0; (223257), 4, 1, 0; (223726), 4, 1, 0; (223993), 4, 1, 0; (224531), 8, 2, 1; (224863), 4, 1, 0; (225750), 8, 2, 9; (226700), 4, 1, 0; (226844), 4, 1, 0; (228412), 4, 1, 0; (229854), 4, 1, 0; (231006), 12, 2, 1; (231023), 8, 2, 1; (231829), 4, 1, 0; (231978), 4, 1, 0; (232679), 4, 1, 0; (232985), 4, 1, 0; (233052), 8, 2, 9; (234207), 4, 1, 0; (235457), 8, 2, 9; (235492), 4, 1, 0; (235500), 16, 4, 18; (235503), 4, 1, 0; (236061), 12, 3, 9; (237634), 8, 2, 1; (238686), 8, 2, 17; (239558), 4, 1, 0; (241139), 4, 1, 0; (241152), 8, 2, 1; (243380), 12, 3, 17; (244997), 4, 1, 0; (246174), 4, 1, 0; (248195), 4, 1, 0; (249744), 4, 1, 0; (251358), 4, 1, 0; (251547), 4, 1, 0; (257290), 4, 1, 0; (259068), 4, 1, 0; (259140), 4, 1, 0; (259276), 4, 1, 0; (259368), 7, 2, 8; (261247), 4, 1, 0; (261514), 4, 1, 0; (262849), 4, 1, 0; (265983), 4, 1, 0; (266268), 4, 1, 0; (266403), 4, 1, 0; (267364), 4, 1, 0; (267503), 8, 2, 1; (268959), 4, 1, 0; (269701), 4, 1, 0; (269868), 4, 1, 0; (270390), 8, 2, 9; (271597), 4, 1, 0; (272734), 4, 1, 0; (272803), 4, 1, 0; (272900), 8, 2, 8; (274259), 4, 1, 0; (276061), 4, 1, 0; (277069), 4, 1, 0; (279759), 8, 2, 8; (279926), 8, 2, 8; (282145), 5, 1, 0; (282175), 4, 1, 0; (282452), 8, 2, 1; (282603), 4, 1, 0; (284930), 4, 1, 0; (285012), 4, 1, 0; (287541), 4, 1, 0; (289431), 4, 1, 0; (289707), 4, 1, 0; (291867), 4, 1, 0; (292622), 4, 1, 0; (292861), 16, 4, 17; (302195), 4, 1, 0; (302304), 4, 1, 0; (306933), 4, 1, 0; (309455), 8, 2, 1; (313378), 4, 1, 0; (314152), 8, 2, 9; (314161), 4, 1, 0; (315991), 4, 1, 0; (317544), 4, 1, 0; (318785), 4, 1, 0; (321570), 12, 3, 9; (322373), 8, 2, 8; (323397), 4, 1, 0; (326347), 4, 1, 0; (326964), 8, 2, 9; (329970), 4, 1, 0; (330449), 8, 2, 1; (330686), 4, 1, 0; (330991), 4, 1, 0; (331051), 4, 1, 0; (331522), 4, 1, 0; (331775), 4, 1, 0; (332179), 4, 1, 0; (332368), 8, 2, 8; (332386), 4, 1, 0; (332554), 4, 1, 0; (332748), 8, 2, 9; (332753), 4, 1, 0; (332925), 4, 1, 0; (332929), 12, 3, 9; (333246), 4, 1, 0; (333275), 4, 1, 0; (334551), 4, 1, 0; (335840), 8, 2, 1; (336697), 4, 1, 0; (336722), 8, 2, 1; (336996), 8, 2, 1; (340616), 4, 1, 0; (340938), 8, 2, 1; (341753), 4, 1, 0; (364194), 4, 1, 0; (365188), 4, 1, 0; (365226), 4, 1, 0; (365917), 8, 2, 9; (369879), 4, 1, 0; (370908), 4, 1, 0; (370917), 8, 2, 9; (371180), 4, 1, 0; (371397), 4, 1, 0; (371719), 4, 1, 0; (373150), 4, 1, 0; (375311), 17, 4, 10; (375550), 4, 1, 0; (376130), 4, 1, 0; (376420), 4, 1, 0; (376507), 4, 1, 0; (376776), 4, 1, 0; (377258), 4, 1, 0; (380073), 8, 2, 10; (380423), 4, 1, 0; (380680), 4, 1, 0; (381924), 4, 1, 0; (381985), 4, 1, 0; (382128), 12, 3, 10; (390377), 4, 1, 0; (392715), 8, 2, 1; (409414), 4, 1, 0; (410595), 4, 1, 0; (411860), 4, 1, 0; (413597), 4, 1, 0; (418708), 4, 1, 0; (419483), 4, 1, 0; (422581), 4, 1, 0; (422998), 5, 1, 0; (423787), 8, 2, 17; (425943), 4, 1, 0; (425987), 4, 1, 0; (430763), 4, 1, 0; (430978), 8, 2, 1; (455689), 4, 1, 0; (459022), 4, 1, 0; (461747), 4, 1, 0; (462073), 4, 1, 0; (462082), 4, 1, 0; (462569), 4, 1, 0; (462606), 4, 1, 0; (463569), 5, 1, 0; (465205), 4, 1, 0; (466700), 4, 1, 0; (466788), 4, 1, 0; (466808), 4, 1, 0; (466858), 4, 1, 0; (466914), 4, 1, 0; (467184), 4, 1, 0; (467218), 4, 1, 0; *[4256, 769, 6*, 2013/06/21–2016/05/16]*

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

2016 BX_{14}, 3, 1, 0; 2016 FY_3, 4, 1, 0; 2016 GS_2, 4, 1, 0; 2016 HN, 3, 1, 0; 2016 HO, 8, 1, 0; 2016 HD_3, 4, 1, 0; 2016 HF_3, 3, 1, 0; *[29, 7, 0*, 2016/04/23–2016/05/17]*

J75 OAM Observatory, La Sagra

S. Sanchez, Observatori Astronomic de Mallorca, Camí de l'observatori s/n, E-07144 Costitx, Baleares, Spain [astroam@bitel.es]

Observers S. Sanchez, J. Nomen, M. Hurtado, J. A. Jaume, W. K. Y. Yeung, P. Rios, F. Serra

0.45-m $f/2.8$ reflector + CCD, 0.40-m $f/10$ reflector + CCD

UCAC-2

2014 SL_{215}, 3, 1, 0; 2014 WF_{253}, 3, 1, 0; 2015 HW_{173}, 6, 1, 0; 2016 CG_{261}, 3, 1, 0; 2016 GH_{240}, 6, 2, 17; 2016 HB_{23}, 3, 1, 0; (466568), 3, 1, 0; (466720), 3, 1, 0; *[30, 8, 0*, 2009/08/16–2013/09/08]*

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

2012 XZ_{134}, 2, 1, 0; 2016 HK, 3, 1, 0; 2016 HM, 3, 1, 0; 2016 HO_2, 3, 1, 0; 2016 HD_3, 11, 3, 3; 2016 HE_3, 3, 1, 0; 2016 HL_3, 3, 1, 0; 2016 HO_3, 5, 2, 2; 2016 HP_3, 2, 1, 0; 2016 HO_6, 6, 2, 1; 2016 HP_6, 6, 2, 1; 2016 HS_6, 5, 2, 1; 2016 HD_{19}, 4, 1, 0; 2016 HJ_{19}, 2, 1, 0; 2016 HK_{19}, 3, 1, 0; 2016 JB, 3, 1, 0; 2016 JE, 2, 1, 0; 2016 JP, 6, 2, 1; 2016 JQ, 6, 2, 1; 2016 JS, 6, 2, 1; 2016 JJ_2, 6, 2, 1; 2016 JO_5, 3, 1, 0; 2016 JP_5, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JA_6, 3, 1, 0; 2016 JE_6, 2, 1, 0; 2016 JD_{18}, 8, 2, 1; 2016 JW_{28}, 4, 1, 0; 2016 JX_{28}, 3, 1, 0; 2016 JH_{29}, 3, 1, 0; 2016 JR_{33}, 3, 1, 0; 2016 JW_{33}, 3, 1, 0; 2016 KA, 3, 1, 0; 2016 KD, 3, 1, 0; (17252), 3, 1, 0; (17971), 2, 1, 0; (20265), 3, 1, 0; (24095), 3, 1, 0; (35866), 2, 1, 0; (133998), 2, 1, 0; (159657), 3, 1, 0; (410741), 3, 1, 0; *[158, 43, 0*, 2016/04/17–2016/05/18]*

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

UCAC-4, URAT-1, USNO-A2.0

2016 GS_2, 10, 2, 4; (137170), 4, 2, 12; (154555), 6, 2, 13; *[20, 3, 0*, 2016/04/30–2016/05/15]*

K17 Observatoire des Valentines, Bex
R. Nicollerat, Chemin des Valentines 16, Bex, Vaud 1880, Switzerland [rnicollerat@gmail.com]
0.35-m $f/7.7$ Schmidt-Cassegrain + CCD
PPMXL
2015 XB_{379}, 6, 2, 10; (3212), 2, 1, 0; (4559), 3, 1, 0; (7067), 3, 1, 0; (11192), 4, 1, 0; (12029), 4, 1, 0; (53328), 3, 1, 0; (54713), 3, 1, 0; (62464), 2, 1, 0; (99930), 3, 1, 0; (101620), 3, 1, 0; *[36, 11, 0∗, 2016/04/19–2016/04/29]*

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
(511), 3, 1, 0; (107881), 2, 1, 0; *[5, 2, 0∗, 2016/04/25–2016/05/04]*

K27 St-Martin Observatory, Amathay Vésigneux
N. Esseiva, 31 grande rue, F-25330 Amathay Vésigneux, France [nico.esseiva@wanadoo.fr]
Observers N. Esseiva, R. Behrend
0.28-m $f/7$ Schmidt-Cassegrain + CCD
UCAC-2
(148), 193, 2, 1; *[193, 1, 0∗, 2016/05/04–2016/05/06]*

K38 M57 Observatory, Saltrio
G. Baj, via Viggiu 35, Saltrio, Varese, Italy [amir31@alice.it]
0.30-m $f/8$ Ritchey-Chrétien + CCD
PPMXL, UCAC-4
2016 GS_2, 5, 1, 0; 2016 GB_{135}, 7, 2, 4; 2016 HF_3, 5, 1, 0; 2016 JC_6, 4, 1, 0; (8373), 6, 1, 0; (464798), 4, 1, 0; *[31, 6, 0∗, 2016/04/28–2016/05/16]*

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, URAT-1
(2408), 39, 3, 16; (3764), 22, 2, 2; (4576), 7, 1, 0; (15984), 9, 1, 0; (86667), 3, 1, 0; (321907), 3, 1, 0; (388945), 9, 1, 0; *[92, 7, 0∗, 2016/04/19–2016/05/05]*

K46 Bamberg
K. Völkel, Kunigundendamm 148, 96050 Bamberg Germany [klaus.voelkel@bnv-bamberg.de]
0.10-m $f/6.8$ refractor + CCD
UCAC-4
(37), 3, 1, 0; (209), 3, 1, 0; (324), 6, 2, 4; (501), 3, 1, 0; *[15, 4, 0∗, 2016/04/23–2016/05/02]*

K51 Osservatorio del Celado, Castello Tesino
R. Furgoni, c/o Biblioteca Comunale, Via Venezia 16/b, 38053 Castello Tesino, Italy [riccardo.furgoni@gmail.com]
Observers G. Favero, R. Furgoni
0.80-m $f/4$ reflector + CCD
USNO-B1.0
2002 CX_{58}, 3, 1, 0; 2016 HK, 3, 1, 0; 2016 HF_2, 3, 1, 0; 2016 HJ_2, 3, 1, 0; 2016 HK_2, 3, 1, 0; 2016 JE_6, 3, 1, 0; 2016 JF_6, 3, 1, 0; 2016 JM_6, 3, 1, 0; 2016 JX_{11}, 3, 1, 0; *[27, 9, 0∗, 2016/04/25–2016/05/05]*

K61 Rokycany Observatory
M. Mašek, Voldusska 721/II, 33701, Rokycany, Czech Republic [cassi@astronomie.cz]
Observer M. Adamovsky
Measurers M. Adamovsky, O. Trnka
0.51-m $f/6.8$ reflector + CCD
UCAC-4
2002 CX_{58}, 2, 1, 0; 2016 GS_2, 5, 2, 3; (9841), 3, 1, 0; (347449), 2, 1, 0; *[12, 4, 0∗, 2016/05/02–2016/05/05]*

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
2016 JB, 4, 1, 0; 2016 JG_6, 3, 1, 0; 2016 JX_{11}, 3, 1, 0; *[10, 3, 0∗, 2016/05/03–2016/05/05]*

K63 G. Pascoli Observatory, Castelvecchio Pascoli
R. Bacci, Via Pieri 1, 55051 Castelvecchio Pascoli, Italy [roberto.bacci@gmail.com]
0.30-m $f/10$ Schmidt-Cassegrain + CCD
PPMXL
2002 CX_{58}, 6, 1, 0; 2016 JW_5, 4, 1, 0; (35396), 3, 1, 0; *[13, 3, 0∗, 2016/05/04–2016/05/05]*

K65 Cesena
V. Tinella, Via Galileo Ferraris 31, Cesena, 47522 Forli, Italy [vtinella@libero.it]
0.40-m $f/7$ Schmidt-Cassegrain + CCD
PPMXL
2016 AT_{65}, 3, 1, 0; *[3, 1, 0∗, 2016/04/25]*

K68 Osservatorio Elianto, Pontecagnano
A. Noschese, via V. Emanuele III, 84098 Pontecagnano (SA), Italy [a.noschese@astrocampania.it]
0.23-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
UCAC-4
2016 BU_{13}, 2, 1, 0; (2195), 2, 1, 0; (2267), 2, 1, 0; (6125), 2, 1, 0; *[8, 4, 0∗, 2016/05/05]*

K73 Gravina in Puglia
F. Taccogna, Via Maurizio Lettieri 19, 70024 Gravina in Puglia, Bari, Italy [ftaccogna@alice.it]
0.20-m $f/5$ Newtonian reflector + CCD, 0.10-m $f/5$ refractor + CCD
UCAC-4
(6), 2, 1, 0; (339), 2, 1, 0; (407), 2, 1, 0; (592), 1, 1, 0; *[7, 4, 0∗, 2016/04/27–2016/05/06]*

K74 Muensterschwarzach Observatory, Schwarzach
C. Gerhard, Schweinfurter Straße 40, Schwarzach, 97359 Bavaria, Germany [p.christoph@abtei-muensterschwarzach.de]
0.25-m $f/4.64$ Newtonian reflector + CCD
UCAC-4, USNO-A2.0
2002 CX_{58}, 4, 1, 0; 2005 GB_{180}, 3, 2, 1; 2016 BU_{13}, 3, 1, 0; 2016 GS_2, 9, 2, 1; (164), 3, 1, 0; (582), 3, 1, 0; (5856), 7, 1, 0; (108966), 4, 2, 1; (136472), 3, 1, 0; (326717), 3, 1, 0; (425401), 3, 1, 0; *[45, 11, 0∗, 2016/05/04–2016/05/06]*

K90 Sopot Astronomical Observatory
V. Benishek, Partizanski put 14, 11450 Sopot, Serbia [vlaben@yahoo.com]
Observers V. Benishek, B. Benishek
0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
2016 GL_{225}, 7, 2, 10; *[7, 1, 0∗, 2016/04/16–2016/04/26]*

K91 Sutherland-LCOGT A

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

1.0-m $f/8$ Ritchey-Chrétien + CCD

UCAC-4

2016 HY_2, 3, 1, 0; 2016 HA_3, 3, 1, 0; 2016 HC_{19} *, 12, 2, 9; 2016 HN_{23}, 6, 1, 0; 2016 JD, 3, 1, 0; 2016 JK_5, 4, 1, 0; 2016 JL_5, 3, 1, 0; 2016 JO_5, 3, 1, 0; 2016 JC_6, 11, 1, 0; 2016 JM_6, 9, 1, 0; 2016 JD_{17}, 4, 1, 0; (318098), 4, 1, 0; *[65, 12, 1*, 2016/04/27–2016/05/10]*

K92 Sutherland-LCOGT B

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

1.0-m $f/8$ Ritchey-Chrétien + CCD

UCAC-4

2014 SP_{261}, 4, 1, 0; 2014 WG_{201}, 3, 1, 0; 2016 GS_2, 8, 1, 0; 2016 HL, 4, 1, 0; 2016 HZ_2, 4, 1, 0; 2016 HG_3, 4, 1, 0; 2016 HT_3, 7, 1, 0; 2016 HW_3, 3, 1, 0; 2016 HV_6, 4, 1, 0; 2016 HC_{19}, 11, 2, 1; 2016 HR_{19}, 6, 1, 0; 2016 JF, 3, 1, 0; 2016 JN_6, 9, 1, 0; 2016 JH_{12}, 3, 1, 0; 2016 JD_{18}, 10, 1, 0; 2016 JO_{24}, 3, 1, 0; 2016 JZ_{28}, 4, 1, 0; (169457), 3, 1, 0; (370003), 3, 1, 0; *[96, 19, 0*, 2016/04/19–2016/05/11]*

K95 MASTER-SAAO Observatory, Sutherland

V. Lipunov, Sternberg Astronomical Institute of Lomonosov Moscow State University, Universitetsky prospekt, 13, 23, 119234, Moscow, Russian Federation [lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, D. Buckley, P. Balanutsa, V. Kornilov, A. Kuznetsov, V. Chazov, N. Tiurina, O. Gress, D. Vlasenko

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

2002 LT_{38}, 5, 1, 0; 2008 TT_{189}, 2, 1, 0; 2009 VQ_{39}, 2, 1, 0; 2010 FU_{57}, 6, 1, 0; 2012 LB_4, 3, 1, 0; 2012 QA_6, 2, 1, 0; 2013 PX_{16}, 2, 1, 0; 2013 SG_{29}, 2, 1, 0; 2013 TZ_{78}, 3, 1, 0; 2013 TN_{111}, 2, 1, 0; 2014 YD_{22}, 2, 1, 0; 2015 DA_{147}, 3, 1, 0; (1), 8, 2, 2; (2), 2, 1, 0; (10), 2, 1, 0; (31), 3, 1, 0; (32), 7, 2, 11; (35), 8, 2, 14; (51), 3, 1, 0; (53), 9, 1, 0; (56), 3, 1, 0; (57), 5, 1, 0; (64), 3, 1, 0; (79), 3, 1, 0; (81), 10, 1, 0; (85), 3, 1, 0; (89), 3, 1, 0; (91), 5, 2, 12; (101), 5, 1, 0; (104), 4, 1, 0; (107), 5, 2, 2; (108), 3, 1, 0; (114), 4, 1, 0; (115), 3, 1, 0; (117), 2, 1, 0; (129), 3, 1, 0; (133), 6, 1, 0; (137), 3, 1, 0; (139), 2, 1, 0; (140), 2, 1, 0; (142), 6, 2, 3; (151), 3, 1, 0; (154), 4, 1, 0; (166), 3, 1, 0; (168), 6, 1, 0; (169), 6, 1, 0; (176), 11, 1, 0; (181), 3, 1, 0; (183), 3, 1, 0; (190), 6, 1, 0; (193), 6, 2, 3; (197), 3, 1, 0; (198), 4, 1, 0; (214), 3, 1, 0; (219), 3, 1, 0; (226), 3, 1, 0; (234), 4, 1, 0; (241), 2, 1, 0; (251), 5, 1, 0; (252), 7, 2, 23; (263), 6, 1, 0; (276), 3, 1, 0; (279), 3, 1, 0; (289), 2, 1, 0; (292), 4, 1, 0; (307), 6, 1, 0; (308), 3, 1, 0; (313), 3, 1, 0; (314), 6, 2, 23; (319), 3, 1, 0; (320), 3, 1, 0; (321), 3, 1, 0; (323), 11, 2, 2; (326), 6, 2, 12; (329), 8, 2, 10; (336), 4, 1, 0; (339), 3, 1, 0; (345), 6, 2, 3; (355), 3, 1, 0; (366), 8, 2, 14; (367), 6, 1, 0; (377), 3, 1, 0; (381), 3, 1, 0; (389), 3, 1, 0; (392), 6, 1, 0; (396), 3, 1, 0; (398), 3, 1, 0; (414), 3, 1, 0; (418), 8, 1, 0; (433), 6, 1, 0; (443), 3, 1, 0; (448), 3, 1, 0; (453), 3, 1, 0; (464), 5, 1, 0; (474), 3, 1, 0; (484), 3, 1, 0; (485), 5, 1, 0; (488), 3, 1, 0; (491), 4, 1, 0; (496), 3, 1, 0; (499), 6, 1, 0; (501), 4, 1, 0; (506), 3, 1, 0; (513), 3, 1, 0; (515), 2, 1, 0; (518), 3, 1, 0; (521), 6, 2, 2; (535), 5, 1, 0; (536), 6, 1, 0; (543), 2, 1, 0; (546), 4, 1, 0; (549), 6, 1, 0; (551), 3, 1, 0; (568), 5, 1, 0; (570), 3, 1, 0; (588), 6, 2, 3; (589), 7, 2, 23; (591), 14, 2, 13; (595), 2, 1, 0; (602), 3, 1, 0; (603), 4, 1, 0; 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(429846), 2, 1, 0; (444584), 7, 1, 0; (454177), 5, 1, 0; (461419), 1, 1, 0; (461651), 3, 1, 0; (461655), 4, 1, 0; (462681), 3, 1, 0; *[13654, 3776, 0*, 2016/04/20–2016/05/19]*

L04 ROASTERR-1 Observatory, Cluj-Napoca
L. Hudin, Oasului 344C, Cluj Napoca, 400645 Cluj, Romania
[lucian.hudin@gmail.com]
0.3-m $f/5.0$ reflector + CCD
PPMXL

2016 FE_1, 4, 1, 0; 2016 GS_2, 3, 1, 0; 2016 GD_{206}, 2, 1, 0; 2016 HO, 3, 1, 0; 2016 JW_5, 4, 1, 0; 2016 JP_{17}, 7, 1, 0; 2016 JX_{24}, 3, 1, 0; (141354), 3, 1, 0; (154555), 3, 1, 0; (248590), 2, 1, 0; (465616), 2, 1, 0; *[36, 11, 0∗, 2016/04/20–2016/05/10]*

L71 Vedrus Observatory, Azovskaya

O. Milantiev, Lugovaya 22, Azovskaya, Krasnodarskiy kray 353245, Russia
[astrokrasn@gmail.com]

Observer O. Milantiev
Measurer A. Belotsky
0.25-m $f/4.6$ reflector + CCD
UCAC-4

(3575), 6, 2, 2; (11781), 6, 2, 2; (26364), 6, 2, 1; (48261), 6, 2, 1; (88139), 6, 2, 1; *[30, 5, 0∗, 2016/02/08–2016/04/16]*

N87 Nanshan Station, Xinjiang Observatory

G. J. Feng, 150, science-1 street, Xinshiqu, Urumqi, Xinjiang 830011, China
[fengguojie@xao.ac.cn]

Observers X. Zhang, G. J. Feng, C. H. Bai, A. Esamdin, L. Ma, N. Wang
Measurers G. J. Feng, C. H. Bai, X. Zhang, H. B. Niu
1.0-m $f/2.2$ reflector + CCD
GSC-2.2

2008 TM_{187}, 6, 2, 1; 2016 GG_{127}, 6, 2, 2; 2016 GH_{131}, 7, 2, 1; 2016 GM_{225}, 6, 2, 2; 2016 GV_{247}, 6, 2, 2; 2016 GJ_{249}, 6, 2, 2; 2016 HQ_1, 7, 2, 1; 2016 HZ_3 ∗, 9, 2, 2; 2016 HA_4 ∗, 6, 2, 2; 2016 HB_4 ∗, 6, 2, 2; 2016 HC_4 ∗, 6, 2, 2; 2016 HZ_5 ∗, 6, 2, 1; 2016 HA_6 ∗, 6, 2, 1; 2016 HB_6 ∗, 6, 2, 1; 2016 HC_6 ∗, 7, 2, 1; 2016 HD_6 ∗, 7, 2, 1; *[103, 16, 9∗, 2016/04/25–2016/04/28]*

O45 Yunnan-HK Observatory, Gaomeigu

W. K. Y. Yeung, C902 New Kwai Fong Garden, Hong Kong, China

Observers W. K. Y. Yeung, E. W. K. Ng
0.45-m $f/2.8$ reflector + CCD
GSC-ACT

2016 HD_{19}, 5, 1, 0; (10848), 4, 1, 0; (11557), 4, 1, 0; (20202), 4, 1, 0; (22838), 8, 1, 0; (23223), 4, 1, 0; (23652), 3, 1, 0; (24798), 3, 1, 0; (25715), 3, 1, 0; (25782), 4, 1, 0; (26578), 4, 1, 0; (27855), 7, 1, 0; (29414), 4, 1, 0; (30441), 4, 1, 0; (32565), 4, 1, 0; (37636), 4, 1, 0; (38211), 3, 1, 0; (41808), 8, 1, 0; (41870), 8, 1, 0; (44127), 3, 1, 0; (45505), 4, 1, 0; (46711), 4, 1, 0; (47522), 4, 1, 0; (48238), 3, 1, 0; (52262), 8, 1, 0; (56078), 4, 1, 0; (71031), 7, 1, 0; (71266), 7, 1, 0; (71617), 2, 1, 0; (78867), 4, 1, 0; (84157), 3, 1, 0; (85967), 4, 1, 0; (95952), 4, 1, 0; (100586), 8, 1, 0; (100774), 4, 1, 0; (101853), 4, 1, 0; (106990), 3, 1, 0; (109931), 4, 1, 0; (110289), 4, 1, 0; (112465), 3, 1, 0; (138434), 4, 1, 0; (148721), 4, 1, 0; (149569), 4, 1, 0; (157400), 4, 1, 0; (159389), 4, 1, 0; (163578), 4, 1, 0; (170961), 4, 1, 0; (191832), 3, 1, 0; (203986), 4, 1, 0; (204558), 3, 1, 0; (215841), 4, 1, 0; (225008), 4, 1, 0; (236385), 3, 1, 0; (247021), 4, 1, 0; (257400), 4, 1, 0; (273351), 4, 1, 0; (278272), 4, 1, 0; (291756), 3, 1, 0; (294466), 8, 1, 0; (308074), 4, 1, 0; (375273), 4, 1, 0; (379982), 3, 1, 0; (382176), 4, 1, 0; (415122), 4, 1, 0; *[274, 64, 0∗, 2016/04/30–2016/05/01]*

Q21 Southern Utsunomiya

H. Nohara, 2-35-10 Nishikawadaminami, Utsunomiya, Tochigi, Japan
[QFF01360@nifty.com]

0.4-m $f/3.8$ astrograph + CCD
UCAC-4

(164), 4, 1, 0; (98891), 3, 1, 0; (134340), 4, 1, 0; (136108), 2, 1, 0; (136472), 4, 1, 0; *[17, 5, 0∗, 2016/05/04–2016/05/05]*

Q60 ISON-SSO Observatory, Siding Spring

L. Elenin, 47-17, 8th March, St., Lyubertsy, Moscow region, 140007, Russia
[l.elenin@gmail.com]

0.4-m $f/2.4$ reflector + CCD
UCAC-4

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Q62 iTelescope Observatory, Siding Spring

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B. Lütkenhöner, no detail supplied (40)

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0.70-m $f/6.6$ astrograph + CCD, 0.51-m $f/6.8$ astrograph + CCD + $f/4.5$ focal reducer, 0.43-m $f/6.8$ astrograph + CCD, 0.32-m $f/9$ astrograph + CCD, 0.15-m $f/7$ refractor + CCD

UCAC-4, PPMXL, NOMAD, UCAC-2, UCAC-3

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0; (66738), 4, 1, 0; (66883), 4, 1, 0; (66995), 4, 1, 0; (68563), 4, 1, 0; (69912), 4, 1, 0; (70118), 4, 1, 0; (70905), 4, 1, 0; (72293), 4, 1, 0; (73244), 4, 1, 0; (74102), 4, 1, 0; (74480), 4, 1, 0; (75211), 4, 1, 0; (76388), 4, 1, 0; (76524), 4, 1, 0; (76674), 4, 1, 0; (76862), 4, 1, 0; (78627), 4, 1, 0; (78637), 4, 1, 0; (79047), 4, 1, 0; (79254), 4, 1, 0; (79749), 4, 1, 0; (84367), 4, 1, 0; (85131), 3, 1, 0; (85433), 4, 1, 0; (85919), 3, 1, 0; (86194), 4, 1, 0; (87200), 16, 3, 2; (87738), 7, 1, 0; (88441), 4, 1, 0; (89726), 4, 1, 0; (90920), 4, 1, 0; (92335), 4, 1, 0; (92402), 4, 1, 0; (92915), 4, 1, 0; (93299), 4, 1, 0; (93624), 4, 1, 0; (93938), 4, 1, 0; (93971), 8, 2, 8; (97554), 8, 1, 0; (98800), 4, 1, 0; (100206), 4, 1, 0; (100371), 4, 1, 0; (101783), 4, 1, 0; (102887), 4, 1, 0; (104161), 4, 1, 0; (104466), 4, 1, 0; (104751), 4, 1, 0; (105023), 4, 1, 0; (105670), 4, 1, 0; (106470), 4, 1, 0; (106735), 4, 1, 0; (107009), 4, 1, 0; (107344), 4, 1, 0; (107948), 4, 1, 0; (108784), 4, 1, 0; (109474), 4, 1, 0; (110103), 4, 1, 0; (110114), 4, 1, 0; (110120), 4, 1, 0; (110293), 4, 1, 0; (110558), 4, 1, 0; (110743), 4, 1, 0; (111777), 4, 1, 0; (112856), 4, 1, 0; (113393), 4, 1, 0; (113786), 4, 1, 0; (113826), 4, 1, 0; (115764), 4, 1, 0; (116184), 4, 1, 0; (116539), 4, 1, 0; (117155), 4, 1, 0; (117763), 8, 2, 9; (117801), 8, 1, 0; (119314), 4, 1, 0; (119424), 4, 1, 0; (120651), 4, 1, 0; (125929), 4, 1, 0; (127164), 4, 1, 0; (127818), 4, 1, 0; (130407), 4, 1, 0; (130467), 4, 1, 0; (131251), 4, 1, 0; (131570), 8, 2, 9; (132103), 8, 1, 0; (133806), 4, 1, 0; (136441), 4, 1, 0; (136801), 8, 2, 1; (136971), 4, 1, 0; (140751), 4, 1, 0; (141922), 3, 1, 0; (141944), 8, 2, 6; (142139), 4, 1, 0; (142187), 12, 2, 1; (151074), 4, 1, 0; (152143), 4, 1, 0; (152953), 4, 1, 0; (154052), 4, 1, 0; (154148), 4, 1, 0; (155447), 4, 1, 0; (156587), 8, 1, 0; (158482), 4, 1, 0; (159362), 4, 1, 0; (159681), 4, 1, 0; (163550), 4, 1, 0; (165058), 4, 1, 0; (165167), 4, 1, 0; (165334), 8, 2, 1; (165354), 4, 1, 0; (165496), 4, 1, 0; (165854), 4, 1, 0; (167908), 4, 1, 0; (170563), 4, 1, 0; (171000), 12, 3, 2; (171828), 4, 1, 0; (174069), 8, 2, 6; (176404), 4, 1, 0; (176794), 4, 1, 0; (177348), 8, 2, 9; (178110), 3, 1, 0; (179042), 4, 1, 0; (181111), 4, 1, 0; (184068), 4, 1, 0; (184267), 4, 1, 0; (187458), 4, 1, 0; (188681), 4, 1, 0; (192182), 4, 1, 0; (197305), 4, 1, 0; (198783), 8, 1, 0; (200312), 4, 1, 0; (203459), 3, 1, 0; (205322), 3, 1, 0; (209639), 4, 1, 0; (217215), 4, 1, 0; (220285), 4, 1, 0; (224935), 4, 1, 0; (226020), 4, 1, 0; (235531), 4, 1, 0; (236047), 4, 1, 0; (242132), 4, 1, 0; (247197), 8, 1, 0; (248042), 8, 2, 6; (254479), 8, 1, 0; (265542), 4, 1, 0; (267228), 4, 1, 0; (273661), 4, 1, 0; (274043), 4, 1, 0; (288611), 4, 1, 0; (288624), 4, 1, 0; (289768), 4, 1, 0; (291551), 4, 1, 0; (294816), 4, 1, 0; (308206), 4, 1, 0; (313384), 4, 1, 0; (318646), 4, 1, 0; (325189), 8, 2, 9; (327028), 4, 1, 0; (327299), 3, 1, 0; (335800), 4, 1, 0; (336952), 4, 1, 0; (341406), 3, 1, 0; (370473), 3, 1, 0; (415417), 4, 1, 0; (416257), 4, 1, 0; (416805), 4, 1, 0; (418844), 4, 1, 0; (423390), 4, 1, 0; (429804), 4, 1, 0; (463307), 4, 1, 0; *[1614, 347, 1*, 2016/04/24–2016/05/14]*

{1} 2001 WX_1, 6, 2, 15; 2016 EJ_{203}, 3, 1, 0; 2016 FH_{13}, 3, 1, 0; 2016 HL, 4, 1, 0; 2016 HO, 5, 1, 0; 2016 JU_{33}, 3, 1, 0; (13541), 3, 1, 0; (14039), 2, 1, 0; (19948), 3, 1, 0; (48007), 3, 1, 0; (64031), 2, 1, 0; (95564), 2, 1, 0; *[39, 12, 0*, 2016/03/13–2016/05/14]*

{2} 2016 HL, 3, 1, 0; 2016 JC_6, 4, 1, 0; *[7, 2, 0*, 2016/04/20–2016/05/04]*

{5} 2016 HO, 3, 1, 0; *[3, 1, 0*, 2016/04/24]*

{8} 2016 JG_5, 3, 1, 0; 2016 JO_{15} *, 9, 3, 3; 2016 JQ_{22}, 6, 2, 3; *[18, 3, 1*, 2013/10/03–2016/05/06]*

{40} 2016 HL, 6, 1, 0; 2016 JC_6, 2, 1, 0; *[8, 2, 0*, 2016/04/20–2016/05/03]*

{49} 2016 JH_{13} *, 6, 2, 2; (10849), 3, 1, 0; (14312), 3, 1, 0; (16130), 3, 1, 0; (18511), 3, 1, 0; (22403), 3, 1, 0; (40411), 3, 1, 0; *[24, 7, 1*, 2016/05/04–2016/05/06]*

{25} 2016 HL, 4, 1, 0; 2016 JC_6, 8, 2, 2; 2016 JU_{33}, 2, 1, 0; *[14, 3, 0*, 2016/04/19–2016/05/14]*

{30} 2016 EN_{84}, 6, 2, 10; 2016 HL, 9, 2, 1; 2016 HF_2, 2, 1, 0; (8922), 3, 1, 0; (49926), 3, 1, 0; (52798), 2, 1, 0; (169427), 3, 1, 0; *[28, 7, 0*, 2016/04/19–2016/05/04]*

{32} 2016 FE_1, 3, 1, 0; 2016 JC_6, 8, 2, 2; (872), 3, 1, 0; (3006), 2, 1, 0; (6783), 3, 1, 0; (7060), 2, 1, 0; (18404), 3, 1, 0; (19498), 3, 1, 0; (20295), 2, 1, 0; (32235), 2, 1, 0; (33525), 2, 1, 0; (35375), 3, 1, 0; (35396), 5, 1, 0; (42993), 2, 1, 0; (54675), 2, 1, 0; (68362), 2, 1, 0; (87031), 3, 1, 0; (87670), 2, 1, 0; (89480), 3, 1, 0; (104977), 2, 1, 0; *[57, 20, 0*, 2016/05/04–2016/05/06]*

Q68 Blue Mountains Observatory, Leura

J. Oey, 94 Rawson pde, Leura NSW 2780, Australia [julianoey@gmail.com]
Observers J. Oey, P. Camilleri, H. Williams
0.30-m $f/5.4$ reflector + CCD, 0.34-m $f/5.9$ Schmidt-Cassegrain + CCD
UCAC-4

(3500), 2, 1, 0; (8791), 1, 1, 0; (19711), 4, 2, 1; (21763), 2, 1, 0; (33525), 2, 1, 0; (42993), 2, 1, 0; (54488), 1, 1, 0; (68362), 2, 1, 0; (80035), 2, 1, 0; (87670), 2, 1, 0; (93075), 2, 1, 0; *[22, 11, 0*, 2016/04/05–2016/05/15]*

T05 ATLAS-HKO, Haleakala

A. Heinze, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [aheinze@hawaii.edu]
Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry, A. Sherstyuk
0.5-m $f/2.0$ Schmidt + CCD
2MASS

2003 KO_2, 8, 2, 3; 2009 DL_{46}, 4, 1, 0; 2010 FU_{57}, 4, 1, 0; 2012 BP_{122}, 4, 1, 0; 2013 SG_{29}, 20, 4, 11; 2013 TS_{14}, 4, 1, 0; 2013 TY_{33}, 4, 1, 0; 2015 YA_8, 5, 1, 0; 2016 BU_{13}, 8, 2, 11; 2016 BX_{14}, 13, 2, 4; 2016 FE_1, 4, 1, 0; 2016 FG_{12}, 7, 1, 0; 2016 GB_{135}, 4, 1, 0; 2016 HL, 12, 3, 6; 2016 JU *, 16, 4, 11; 2016 JC_6, 4, 1, 0; 2016 JH_{30}, 4, 1, 0; (12), 20, 4, 6; (20), 5, 1, 0; (23), 8, 2, 7; (25), 8, 2, 12; (27), 24, 6, 14; (28), 12, 3, 16; (30), 40, 6, 12; (33), 32, 8, 14; (35), 28, 6, 19; (36), 20, 4, 15; (37), 4, 1, 0; (38), 16, 4, 10; (40), 36, 8, 26; (46), 28, 7, 20; (47), 36, 9, 26; (50), 8, 2, 1; (52), 32, 7, 26; (53), 4, 1, 0; (55), 44, 9, 26; (58), 8, 2, 1; (64), 5, 1, 0; (66), 34, 7, 10; (69), 16, 3, 16; (70), 12, 3, 15; (76), 21, 5, 21; (78), 16, 4, 15; (80), 24, 6, 26; (81), 34, 7, 10; (83), 24, 6, 14; (84), 44, 9, 26; (86), 8, 2, 4; (87), 4, 1, 0; (88), 24, 6, 6; (93), 32, 8, 14; (94), 48, 7, 12; (95), 16, 3, 22; (97), 40, 8, 26; (99), 29, 6, 27; (101), 16, 3, 26; (104), 4, 1, 0; (110), 4, 1, 0; (111), 19, 2, 9; (112), 24, 6, 14; (115), 47, 9, 26; (116), 32, 8, 14; (122), 5, 1, 0; (123), 56, 9, 26; (124), 24, 6, 9; (125), 28, 5, 5; (127), 56, 8, 26; (128), 24, 5, 9; (130), 32, 8, 26; (131), 4, 1, 0; (132), 12, 3, 12; (133), 8, 2, 15; (136), 4, 1, 0; (137), 20, 5, 12; (138), 9, 2, 9; (139), 8, 2, 12; (140), 28, 6, 14; (144), 40, 8, 14; (148), 12, 3, 8; (150), 28, 7, 11; (152), 16, 4, 15; (155), 5, 1, 0; (160), 24, 6, 11; (164), 4, 1, 0; (166), 5, 1, 0; (168), 12, 3, 7; (169), 20, 5, 26; (170), 20, 5, 12; (171), 44, 8, 26; (172), 20, 5, 13; (173), 12, 3, 8; (174), 24, 4, 6; (176), 58, 8, 9; (181), 20, 5, 11; (184), 5, 1, 0; (186), 48, 7, 9; (188), 4, 1, 0; (190), 20, 4, 9; (195), 32, 7, 21; (196), 32, 7, 27; (198), 20, 5, 11; (202), 24, 6, 14; (205), 20, 4, 9; (207), 37, 9, 27; (209), 12, 3, 26; (210), 20, 5, 11; (216), 20, 5, 16; (219), 20, 5, 12; (222), 33, 6, 21; (236), 13, 3, 23; (237), 16, 3, 15; (238), 24, 6, 11; (239), 12, 3, 16; (241), 20, 4, 21; (245), 20, 5, 27; (247), 24, 5, 15; (248), 28, 7, 11; (249), 16, 3, 9; (250), 16, 4, 15; (253), 34, 8, 26; (254), 41, 8, 19; (256), 8, 2, 4; (258), 24, 6, 26; (261), 36, 8, 26; (262), 8, 2, 9; (263), 4, 1, 0; (267), 24, 6, 9; (270), 32, 8, 26; (274), 8, 2, 7; (277), 13, 3, 7; (278), 33, 7, 27; (280), 20, 5, 14; (281), 32, 6, 11; (283), 16, 4, 14; (284), 13, 3, 7; (285), 4, 1, 0; (289), 8, 2, 1; (291), 29, 7, 27; (294), 28, 6, 20; (295), 5, 1, 0; (296), 8, 2, 7; (305), 52, 9, 26; (307), 12, 3, 9; (309), 4, 1, 0; (318), 8, 2, 16; (321), 16, 4, 8; (324), 20, 5, 19; (327), 32, 7, 14; (329), 16, 4, 6; (330), 16, 3, 11; (332), 32, 8, 14; (333), 40, 8, 26; (335), 4, 1, 0; (336), 41, 7, 12; (337), 9, 2, 10; (339), 8, 2, 16; (344), 24, 5, 15; (346), 4, 1, 0; (347), 20, 4, 15; (350), 13, 2, 16; (353), 8, 2, 4; (355), 10, 2, 9; (357), 16, 4, 18; (358), 35, 6, 22; (359), 9, 2, 9; (363), 24, 4, 27; (364), 8, 2, 7; (365), 4, 1, 0; (366), 20, 4, 15; (368), 36, 7, 9; (373), 8, 2, 12; 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(150536), 8, 2, 4; (150545), 4, 1, 0; (150704), 9, 2, 7; (150948), 4, 1, 0; (151043), 16, 4, 15; (151044), 12, 3, 6; (151046), 4, 1, 0; (151117), 4, 1, 0; (151257), 4, 1, 0; (151276), 4, 1, 0; (151761), 4, 1, 0; (151775), 4, 1, 0; (151785), 4, 1, 0; (151814), 4, 1, 0; (151827), 8, 2, 4; (151874), 4, 1, 0; (152101), 4, 1, 0; (152485), 26, 6, 17; (152540), 4, 1, 0; (152683), 8, 2, 6; (152759), 4, 1, 0; (152822), 16, 4, 11; (153031), 4, 1, 0; (153652), 4, 1, 0; (153833), 8, 2, 4; (153932), 4, 1, 0; (154088), 4, 1, 0; (154089), 4, 1, 0; (154244), 12, 3, 7; (154483), 16, 4, 9; (154490), 12, 3, 6; (154531), 4, 1, 0; (154549), 4, 1, 0; (154555), 8, 2, 11; (154560), 4, 1, 0; (154566), 8, 2, 2; (155449), 4, 1, 0; (155522), 4, 1, 0; (155523), 8, 2, 6; (156495), 4, 1, 0; (156954), 4, 1, 0; (156985), 4, 1, 0; (157366), 5, 1, 0; (157383), 4, 1, 0; (157702), 4, 1, 0; (157811), 4, 1, 0; (157836), 5, 1, 0; (157839), 7, 2, 4; (157844), 4, 1, 0; (158270), 12, 3, 5; (158430), 4, 1, 0; (158518), 20, 4, 9; 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(189848), 4, 1, 0; (189849), 4, 1, 0; (190090), 4, 1, 0; (190285), 5, 1, 0; (190364), 8, 1, 0; (190602), 4, 1, 0; (191036), 20, 5, 9; (191280), 4, 1, 0; (191312), 4, 1, 0; (192609), 4, 1, 0; (192621), 12, 3, 12; (193023), 8, 2, 5; (193122), 16, 4, 9; (195246), 28, 6, 15; (195262), 24, 4, 9; (195280), 4, 1, 0; (195510), 8, 2, 4; (195536), 26, 5, 17; (195546), 12, 3, 5; (196460), 8, 2, 3; (196480), 4, 1, 0; (196586), 8, 2, 3; (197441), 12, 3, 9; (197497), 5, 1, 0; (198027), 3, 1, 0; (198838), 20, 5, 9; (199027), 4, 1, 0; (199509), 4, 1, 0; (199854), 12, 3, 15; (200301), 8, 2, 2; (201680), 4, 1, 0; (203912), 4, 1, 0; (205322), 4, 1, 0; (205859), 4, 1, 0; (205861), 4, 1, 0; (207779), 12, 3, 9; (208244), 8, 2, 7; (208658), 8, 2, 4; (208711), 8, 2, 12; (209981), 8, 1, 0; (210025), 8, 2, 4; (210635), 12, 2, 7; (211048), 4, 1, 0; (211094), 4, 1, 0; (211183), 21, 4, 15; (211504), 4, 1, 0; (212009), 20, 5, 9; (213524), 4, 1, 0; (213539), 20, 4, 9; (214167), 4, 1, 0; (215606), 8, 2, 9; (216472), 4, 1, 0; (217182), 4, 1, 0; (217822), 4, 1, 0; (217827), 9, 2, 4; (217828), 8, 2, 12; (218114), 4, 1, 0; (218581), 8, 2, 4; (219001), 4, 1, 0; (219145), 4, 1, 0; (219148), 4, 1, 0; (219597), 4, 1, 0; (219773), 8, 2, 9; (221175), 16, 4, 7; (221366), 8, 2, 4; (221794), 4, 1, 0; (222493), 8, 2, 6; (222571), 4, 1, 0; (222624), 8, 2, 3; (222662), 16, 4, 16; (222808), 4, 1, 0; (222833), 4, 1, 0; (223274), 8, 2, 6; (223431), 12, 3, 4; (223741), 4, 1, 0; (224199), 4, 1, 0; (224328), 26, 6, 17; (224340), 4, 1, 0; (224841), 4, 1, 0; (224902), 4, 1, 0; (225003), 17, 3, 5; (225510), 13, 3, 9; (225749), 4, 1, 0; (225894), 12, 3, 12; (226760), 8, 2, 3; (227877), 8, 2, 7; (228505), 8, 2, 9; (228672), 4, 1, 0; (228780), 12, 3, 9; (229023), 4, 1, 0; (229201), 4, 1, 0; (229699), 17, 4, 11; (230008), 4, 1, 0; (230247), 4, 1, 0; (230371), 4, 1, 0; (231027), 4, 1, 0; (231034), 8, 2, 3; (232703), 5, 1, 0; (232745), 4, 1, 0; (232981), 8, 2, 9; (233019), 4, 1, 0; (233044), 4, 1, 0; (235489), 4, 1, 0; (235504), 5, 1, 0; (236083), 4, 1, 0; (237837), 20, 5, 15; (239234), 8, 2, 1; (240709), 8, 2, 4; (243811), 4, 1, 0; (248590), 4, 1, 0; (249485), 16, 3, 5; (249604), 4, 1, 0; (249719), 4, 1, 0; (249742), 4, 1, 0; (251767), 8, 2, 11; (252164), 16, 4, 6; (252697), 4, 1, 0; (253446), 8, 2, 4; (254535), 5, 1, 0; (258367), 8, 1, 0; (258800), 12, 3, 5; (262841), 4, 1, 0; (262929), 4, 1, 0; (262958), 4, 1, 0; (263135), 8, 2, 3; (263852), 4, 1, 0; (265752), 4, 1, 0; (266416), 12, 3, 7; (266437), 4, 1, 0; (267022), 12, 3, 9; (267425), 4, 1, 0; (267498), 5, 1, 0; (269309), 8, 2, 9; (275466), 4, 1, 0; (276454), 16, 4, 15; (278366), 4, 1, 0; (282130), 4, 1, 0; (282174), 4, 1, 0; (282345), 4, 1, 0; (282660), 17, 4, 15; (283268), 8, 2, 4; (285857), 4, 1, 0; (287605), 8, 2, 4; (290277), 8, 2, 4; (292009), 9, 2, 9; (295443), 8, 2, 4; (306416), 13, 3, 10; (306459), 8, 2, 12; (307240), 12, 3, 7; (307523), 26, 5, 15; (309178), 8, 1, 0; (310658), 4, 1, 0; (311228), 4, 1, 0; (311594), 4, 1, 0; (312496), 4, 1, 0; (313172), 8, 2, 5; 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U69 iTelescope SRO Observatory, Auberry

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (5)
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (9)
Observers S. M. Tilley, H. Sato
0.61-m f/6.5 astrograph + CCD
UCAC-4, NOMAD

{5} 2016 AM_7, 2, 1, 0; 2016 KA, 2, 1, 0; (11532), 2, 1, 0; (137913), 2, 1, 0; (151242), 2, 1, 0; (175241), 2, 1, 0; (452361), 2, 1, 0; *[14, 7, 0*, 2016/01/12–2016/05/17]*

{9} 2016 HF_2, 3, 1, 0; *[3, 1, 0*, 2016/04/26]*

U78 Cedar Glen Observatory

L. DuBois, P.O. Box 537, Cedar Glen, CA 92321, U.S.A. [admin@thecgo.com]
PPMXL
PPMXL

(31968), 6, 2, 2; (52316), 6, 2, 1; (306416), 6, 2, 2; (316743), 6, 2, 1; *[24, 4, 0*, 2016/05/03–2016/05/13]*

V03 Big Water

D. Rankin, P. O. Box 410313, Big Water, Utah, U.S.A. [david@rankinstudio.com]
0.30-m reflector + CCD
UCAC-3, UCAC-4

2016 GJ_{241} *, 3, 1, 0; *[3, 1, 1*, 2016/04/02]*

V30 Heaven on Earth Observatory, Mayhill

W. K. Y. Yeung, C902 New Kwai Fong Garden, Kwai Fong, N. T., Hong Kong [microplanet333@yahoo.com]
0.75-m f/3.3 reflector + CCD
GSC-ACT

2015 DX_4, 3, 1, 0; 2016 GU_{174}, 3, 1, 0; (870), 4, 1, 0; (1268), 3, 1, 0; (1742), 2, 1, 0; (23206), 4, 1, 0; (23720), 3, 1, 0; (25715), 7, 2, 3; (27855), 4, 1, 0; (30101), 2, 1, 0; (32565), 3, 1, 0; (33859), 4, 1, 0; (34965), 3, 1, 0; (40405), 4, 1, 0; (40717), 3, 1, 0; (44127), 3, 1, 0; (45474), 3, 1, 0; (45505), 4, 1, 0; (47865), 3, 1, 0; (48362), 2, 1, 0; (49922), 2, 1, 0; (55306), 4, 1, 0; (68055), 4, 1, 0; (68825), 3, 1, 0; (69827), 3, 1, 0; (73074), 2, 1, 0; (74769), 3, 1, 0; (75683), 4, 1, 0; (78276), 2, 1, 0; (80815), 3, 1, 0; (80891), 4, 1, 0; (83529), 4, 1, 0; (84053), 3, 1, 0; (87861), 3, 1, 0; (88000), 3, 1, 0; (98302), 3, 1, 0; (99312), 3, 1, 0; (100526), 2, 1, 0; (100818), 4, 1, 0; (107631), 3, 1, 0; (109495), 2, 1, 0; (109931), 4, 1, 0; (110289), 3, 1, 0; (110955), 4, 1, 0; (111833), 3, 1, 0; (112465), 4, 1, 0; (112701), 3, 1, 0; (115465), 3, 1, 0; (126144), 2, 1, 0; (129176), 4, 1, 0; (133360), 3, 1, 0; (135249), 3, 1, 0; (137646), 2, 1, 0; (142006), 3, 1, 0; (144936), 4, 1, 0; (146042), 2, 1, 0; (146989), 2, 1, 0; (148721), 3, 1, 0; (148806), 4, 1, 0; (149569), 3, 1, 0; (150935), 2, 1, 0; (152556), 4, 1, 0; (153662), 4, 1, 0; (155513), 4, 1, 0; (157400), 3, 1, 0; (163100), 3, 1, 0; (163578), 4, 1, 0; (165218), 3, 1, 0; (167640), 3, 1, 0; (168339), 2, 1, 0; (170961), 4, 1, 0; (177719), 3, 1, 0; (178863), 4, 1, 0; (181004), 4, 1, 0; (185591), 2, 1, 0; (191914), 4, 1, 0; (192075), 4, 1, 0; (192107), 3, 1, 0; (201876), 3, 1, 0; (213555), 4, 1, 0; (215436), 3, 1, 0; (215841), 4, 1, 0; (215862), 4, 1, 0; (217183), 4, 1, 0; (225008), 3, 1, 0; (235938), 4, 1, 0; (243304), 2, 1, 0; (249064), 3, 1, 0; (254494), 3, 1, 0; (259218), 4, 1, 0; (259334), 4, 1, 0; (261198), 3, 1, 0; (265781), 2, 1, 0; (272827), 3, 1, 0; (277045), 4, 1, 0; (277144), 4, 1, 0; (278272), 3, 1, 0; (282590), 4, 1, 0; (283172), 4, 1, 0; (294466), 3, 1, 0; (295042), 4, 1, 0; (308074), 3, 1, 0; (309455), 4, 1, 0; (320629), 3, 1, 0; (321327), 3, 1, 0; (328954), 4, 1, 0; (330976), 4, 1, 0;

(367310), 4, 1, 0; (370883), 3, 1, 0; (375031), 3, 1, 0; (375032), 3, 1, 0; (382176), 3, 1, 0; (415122), 3, 1, 0; (420511), 4, 1, 0; (421065), 2, 1, 0; (461114), 2, 1, 0; (467213), 3, 1, 0; *[380, 117, 0∗, 2015/01/17–2016/05/11]*

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
(207), 12, 4, 12; (35396), 32, 11, 20; (67681), 3, 1, 0; *[47, 3, 0∗, 2016/04/23–2016/05/17]*

V83 Rolling Hills Observatory, Warrensburg
R. D. Owens, 22 SW 575 Road, Warrensburg, MO 64093, U.S.A. [rickandkrysowens@embarqmail.com]
0.36-m $f/1.9$ Schmidt-Cassegrain + CCD
UCAC-4
(6), 6, 1, 0; (3318), 6, 1, 0; (5320), 5, 1, 0; *[17, 3, 0∗, 2016/05/06–2016/05/07]*

W08 Jimginny Observatory, Naperville
R. W. Dunford, 991 Huntleigh Dr., Naperville, IL 69540, U.S.A. [bargonne@gmail.com]
0.36-m $f/1.9$ reflector + GPS-tagged video
UCAC-4
(455), 6, 2, 4; (481), 6, 2, 4; (563), 6, 2, 4; (753), 6, 2, 4; *[24, 4, 0∗, 2016/03/29–2016/04/02]*

W11 Calumet Astronomy Center, Lowell
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Observers A. W. Rengstorf, S. P. Cias, J. D. Vandenoever, J. A. Balta
Measurers A. W. Rengstorf, S. P. Cias, S. M. Garza, J. D. Vandenoever
0.51-m $f/8.1$ Ritchey-Chrétien + CCD
UCAC-3
(3223), 10, 5, 4; (8077), 4, 2, 6; *[14, 2, 0∗, 2016/03/12–2016/04/16]*

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
PPMXL
2016 EK_{196}, 3, 1, 0; *[3, 1, 0∗, 2016/04/25]*

W77 Skyledge Observatory, Killingworth
J. E. Mazur, 176 Chestnut Hill Road, Killingworth, CT 06419, U.S.A. [mazurj1@comcast.net]
0.36-m $f/6$ Schmidt-Cassegrain + CCD
UCAC-4
(10814), 2, 1, 0; (13797), 3, 1, 0; *[5, 2, 0∗, 2016/05/12–2016/05/13]*

W84 Cerro Tololo-DECam
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)
Observers L. Allen, D. James, D. Herrera, C. Fuentes, E. E. Mamajek, F. Moolekamp, D. J. James, D. A. Cameron, M. Brown, C. Davis, D. Capozzi, A. Kim, K. Bechtol, B. Nord, N. Kuropatkin, T. Li, C. Smith, L. Clerkin
Measurers F. Valdes, D. A. Cameron, S. Deen, D. Gerdes, M. Sako
4.0-m $f/2.87$ reflector + CCD
2MASS
{5} 1998 VS, 5, 1, 0; 2000 QW_7, 8, 2, 3; 2009 WK_6, 14, 3, 3; 2010 TC_{47}, 10, 2, 2; 2010 VD_1, 5, 1, 0; 2015 HP_9, 12, 3, 3; 2016 EF_{56}, 10, 2, 2; 2016 FG_{60} ∗, 13, 3, 4; 2016 FH_{60} ∗, 9, 2, 3; 2016 FJ_{60} ∗, 10, 2, 1; 2016 FK_{60} ∗, 9, 2, 1; 2016 FL_{60} ∗, 8, 2, 3; 2016 FM_{60} ∗, 5, 1, 0; 2016 FN_{60} ∗, 9, 2, 2; 2016 FO_{60} ∗, 9, 2, 1; 2016 FP_{60} ∗, 8, 2, 2; 2016 FQ_{60} ∗, 12, 2, 1; 2016 FR_{60} ∗, 14, 2, 1; 2016 GM_{220}, 5, 1, 0; 2016 GA_{252} ∗, 5, 1, 0; 2016 HV_3, 4, 1, 0; 2016 HG_{19}, 3, 1, 0; 2016 JA ∗, 4, 1, 0; 2016 JF, 5, 1, 0; 2016 JG ∗, 10, 2, 2; 2016 JH, 5, 1, 0; 2016 JM ∗, 14, 3, 3; 2016 JN ∗, 12, 3, 3; 2016 JO ∗, 10, 2, 2; 2016 JR, 3, 1, 0; 2016 JT, 5, 1, 0; 2016 JV ∗, 15, 3, 3; 2016 JE_5 ∗, 12, 3, 3; 2016 JQ_5 ∗, 15, 2, 1; 2016 JS_5 ∗, 14, 2, 1; 2016 JT_5 ∗, 8, 2, 1; 2016 JX_5 ∗, 4, 1, 0; 2016 JF_{17} ∗, 10, 2, 2; 2016 JG_{17} ∗, 10, 2, 2; (1647), 5, 1, 0; (4138), 5, 1, 0; (5012), 10, 2, 2; (5258), 5, 1, 0; (9694), 5, 1, 0; (9790), 5, 1, 0; (9817), 10, 1, 0; (9818), 5, 1, 0; (13182), 10, 2, 3; (19725), 5, 1, 0; (22199), 10, 1, 0; (24313), 5, 1, 0; (83980), 10, 1, 0; (90337), 10, 1, 0; (141531), 20, 3, 3; (154715), 8, 2, 3; (191102), 10, 1, 0; (391595), 10, 2, 1; (392476), 13, 3, 3; (444025), 9, 3, 3; (458198), 8, 1, 0; *[521, 60, 25∗, 2016/03/28–2016/05/04]*

{6} 2015 KX_{162} ∗, 7, 2, 1; 2015 KY_{162} ∗, 4, 2, 1; *[11, 2, 2∗, 2015/05/27–2015/05/28]*

{7} (309239), 5, 5, 57; *[5, 1, 0∗, 2014/10/02–2014/11/28]*

W88 Slooh.com Chile Observatory, La Dehesa
D. P. Dean, 3 Green Valley Lake Rd, Old Lyme, CT 06371, U.S.A. [deandp371@gmail.com] (7)
R. C. Bubany, 67682 217th St, Darwin, MN 55324, U.S.A. [bubanyrc@mchsi.com] (8)
{7} (308242), 2, 1, 0; *[2, 1, 0∗, 2016/04/20]*

{8} 2016 AO_{165}, 2, 1, 0; 2016 HL, 3, 1, 0; *[5, 2, 0∗, 2016/04/27–2016/04/30]*

W96 CAO, San Pedro de Atacama (since 2013)
A. Maury, Casilla 21, 1410000 San Pedro de Atacama, Chile [amaury@spaceobs.com]
Observers A. Maury, J.-B. de Vanssay, J.-F. Soulier
0.4-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
(28162), 6, 2, 1; *[6, 1, 0∗, 2016/04/25–2016/04/26]*

Y00 SONEAR Observatory, Oliveira
C. Jacques, Rua Bernardino Sena Figueiredo 348, Belo Horizonte, Brazil [cjacqueslf@gmail.com]
Observers C. Jacques, E. Pimentel, J. Barros
0.28-m $f/2.2$ astrograph + CCD, 0.45-m $f/2.9$ reflector + CCD
UCAC-2, UCAC-4
2003 NN_7, 3, 1, 0; 2006 JF_{42}, 3, 1, 0; 2008 PR_9, 3, 1, 0; 2013 SC_{82}, 3, 1, 0; 2016 AO_{165}, 3, 1, 0; 2016 BU_{13}, 6, 2, 2; 2016 HL ∗, 15, 3, 2; 2016 HO ∗, 13, 1, 0; 2016 HQ_6, 3, 1, 0; 2016 JC_6 ∗, 35, 3, 10; 2016 JW_{11} ∗, 27, 7, 20; 2016 JU_{33}, 6, 2, 1; 2016 JH_{35}, 3, 1, 0; (11), 6, 2, 9; (17), 6, 2, 20; (18), 3, 1, 0; (19), 3, 1, 0; (24), 3, 1, 0; (25), 3, 1, 0; (31), 3, 1, 0; (32), 3, 1, 0; (48), 6, 2, 3; (59), 6, 2, 10; (64), 6, 2, 10; (67), 9, 3, 11; (73), 9, 3, 16; (77), 3, 1, 0; (79), 3, 1, 0; (85), 3, 1, 0; (108), 3, 1, 0; (110), 6, 2, 9; (111), 9, 3, 19; (119), 3, 1, 0; (122), 6, 2, 19; (145), 6, 2, 15; (149), 6, 2, 20; (151), 6, 2, 2; (153), 6, 2, 11; (155), 3, 1, 0; (159), 6, 2, 12; (163), 6, 2, 15; (176), 3, 1, 0; (185), 3, 1, 0; (191), 6, 2, 16; (195), 3, 1, 0; (197), 6, 2, 10; (211), 9, 2, 15; (217), 3, 1, 0; (219), 3, 1, 0; (220), 3, 1, 0; (226), 3, 1, 0; (227), 9, 3, 18; (228), 9, 3, 19; (234), 3, 1, 0; (282), 6, 2, 16; (295), 6, 2, 12; (300), 6, 2, 12; (310), 3, 1, 0; (312), 6, 2, 9; (313), 3, 1, 0; (319), 6, 2, 8; (322), 9, 3, 11; (323), 3, 1, 0; (336), 3, 1, 0; (341), 3, 1, 0; (345), 3, 1, 0; (348), 3, 1, 0; (349), 3, 1, 0; (367), 3, 1, 0; (372), 9, 3, 18; (377), 6, 2, 1; (385), 12, 4, 24; (397), 3, 1, 0; (398), 3, 1, 0; (405), 3, 1, 0; (408), 3, 1, 0; (422), 3, 1, 0; (428), 6, 2, 9; (433), 9, 3, 19; (437), 3, 1, 0; (440), 9, 3, 13; (443), 3, 1, 0; (444), 6, 2, 15; (454), 6, 2, 19; (460), 6, 2, 12; (464), 6, 2, 10; (469), 6, 2, 16; (473), 3, 1, 0; (480), 3, 1, 0; (484), 6, 2, 19; (488), 6, 2, 15; (518), 3, 1, 0; (521), 6, 2, 4; (526), 6, 2, 12; (529), 9, 3, 18; (532), 3, 1, 0; (535), 6, 2, 12; (543), 6, 2, 12; (551), 3, 1, 0; (558), 6, 2, 15; (560), 3, 1, 0; (595),

12, 4, 24; (597), 9, 3, 15; (602), 3, 1, 0; (603), 3, 1, 0; (607), 6, 2, 19; (608), 6, 2, 12; (616), 3, 1, 0; (620), 3, 1, 0; (631), 3, 1, 0; (637), 3, 1, 0; (638), 9, 3, 19; (641), 6, 2, 12; (654), 3, 1, 0; (663), 3, 1, 0; (670), 9, 3, 11; (673), 6, 2, 10; (678), 3, 1, 0; (680), 3, 1, 0; (685), 6, 2, 12; (694), 3, 1, 0; (696), 3, 1, 0; (699), 6, 2, 15; (717), 3, 1, 0; (721), 3, 1, 0; (733), 3, 1, 0; (737), 6, 1, 0; (738), 3, 1, 0; (743), 3, 1, 0; (748), 3, 1, 0; (751), 3, 1, 0; (758), 3, 1, 0; (771), 3, 1, 0; (775), 6, 2, 3; (779), 6, 2, 9; (780), 3, 1, 0; (781), 3, 1, 0; (793), 9, 3, 25; (807), 3, 1, 0; (810), 3, 1, 0; (814), 3, 1, 0; (839), 3, 1, 0; (840), 3, 1, 0; (845), 3, 1, 0; (847), 3, 1, 0; (850), 3, 1, 0; (856), 3, 1, 0; (864), 6, 2, 10; (867), 9, 3, 18; (868), 6, 2, 10; (873), 3, 1, 0; (875), 3, 1, 0; (891), 3, 1, 0; (895), 3, 1, 0; (909), 3, 1, 0; (910), 3, 1, 0; (918), 6, 2, 9; (922), 6, 2, 11; (930), 3, 1, 0; (935), 6, 2, 16; (949), 3, 1, 0; (964), 3, 1, 0; (985), 6, 2, 10; 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Y28 OASI, Nova Itacuruba

M. De Pra, R. Gen Jose Cristino 77, Sao Cristovao, Rio de Janeiro RJ, Brasil
[mariodepra@on.br]
Observers J. S. Silva, D. Lazzaro, F. Monteiro, R. Souza, T. Rodrigues, H. Medeiros, P. Arcoverde
Measurers M. Micheli, J. S. Silva, F. Monteiro
1.0-m $f/7$ reflector + CCD
PPMXL
2015 HH_{10}, 2, 1, 0; 2016 HE_{19}, 2, 1, 0; *[4, 2, 0*, 2016/05/01–2016/05/14]*

Z21 Tenerife-LCOGT Aqawan A #1

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lcogt.net]
Observers T. Lister, S. Greenstreet, E. Gomez
0.4-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
2016 GS_2, 7, 1, 0; 2016 JD_{18}, 19, 2, 3; 2016 KA, 4, 1, 0; *[30, 3, 0*, 2016/05/14–2016/05/17]*

Z22 MASTER-IAC Observatory, Tenerife

V. Lipunov, no details supplied [lipunov2007@gmail.com]
Observers V. Lipunov, E. Gorbovskoy, R. Rebolo, G. Israelyan, M. Serra-Ricart, N. Lodieu, P. Balanutsa, A. Kuznetsov, N. Tiurina, O. Gress, V. Chazov, K. Ivanov, D. Vlasenko
0.4-m $f/2.5$ reflector + CCD
USNO-B1.0
2016 JA_{31}, 3, 1, 0; (2), 6, 1, 0; (3), 3, 1, 0; (6), 5, 2, 11; (19), 6, 2, 22; (20), 3, 1, 0; (28), 7, 2, 6; (36), 3, 1, 0; (42), 3, 1, 0; (48), 3, 1, 0; (55), 3, 1, 0; (59), 8, 2, 21; (64), 2, 1, 0; (69), 4, 1, 0; (76), 3, 1, 0; (78), 3, 1, 0; (84), 3, 1, 0; (88), 6, 2, 2; (94), 2, 1, 0; (111), 6, 1, 0; (115), 5, 1, 0; (122), 3, 1, 0; (125), 9, 3, 7; (127), 8, 2, 6; (130), 3, 1, 0; (134), 5, 1, 0; (148), 4, 1, 0; (150), 3, 1, 0; (151), 2, 1, 0; (155), 2, 1, 0; (159), 6, 1, 0; (160), 8, 3, 10; (161), 5, 1, 0; (164), 3, 1, 0; (168), 9, 2, 10; (173), 6, 2, 9; (184), 3, 1, 0; (190), 2, 1, 0; (195), 3, 1, 0; (202), 3, 1, 0; (226), 3, 1, 0; (238), 7, 2, 8; (245), 3, 1, 0; (260), 2, 1, 0; (276), 3, 1, 0; (295), 6, 2, 22; (307), 4, 1, 0; (320), 3, 1, 0; (330), 3, 1, 0; (347), 3, 1, 0; (358), 2, 1, 0; (363), 6, 2, 8; (364), 2, 1, 0; (377), 4, 1, 0; (378), 4, 1, 0; (405), 5, 2, 1; (421), 2, 1, 0; (430), 3, 1, 0; (431), 3, 1, 0; (460), 2, 1, 0; (462), 2, 1, 0; (464), 5, 1, 0; (465), 4, 1, 0; 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2, 1, 0; (197624), 2, 1, 0; (201089), 2, 1, 0; (202528), 3, 1, 0; (203181), 2, 1, 0; (205267), 2, 1, 0; (205833), 3, 1, 0; (206300), 3, 1, 0; (206473), 1, 1, 0; (206977), 5, 2, 5; (208634), 4, 1, 0; (209953), 2, 1, 0; (211109), 3, 1, 0; (211153), 2, 1, 0; (211165), 3, 1, 0; (211169), 2, 1, 0; (211173), 2, 1, 0; (211175), 2, 1, 0; (211507), 2, 1, 0; (211650), 6, 2, 6; (213056), 2, 1, 0; (215606), 3, 1, 0; (216304), 2, 1, 0; (217209), 2, 1, 0; (217827), 3, 1, 0; (219001), 2, 1, 0; (220338), 2, 1, 0; (222067), 2, 1, 0; (222808), 3, 1, 0; (223292), 2, 1, 0; (223431), 2, 1, 0; (224382), 3, 1, 0; (224434), 2, 1, 0; (224473), 2, 1, 0; (224935), 2, 1, 0; (225894), 3, 1, 0; (228390), 2, 1, 0; (229227), 3, 1, 0; (230376), 3, 1, 0; (233045), 2, 1, 0; (245267), 2, 1, 0; (256624), 2, 1, 0; (259089), 4, 1, 0; (259333), 1, 1, 0; (264768), 2, 1, 0; (265018), 4, 1, 0; (266617), 2, 1, 0; (277075), 3, 1, 0; (277100), 2, 1, 0; (277132), 2, 1, 0; (278506), 2, 1, 0; (282603), 2, 1, 0; (283000), 2, 1, 0; (293500), 1, 1, 0; (300132), 2, 1, 0; (306416), 4, 1, 0; (306459), 3, 1, 0; (307126), 2, 1, 0; (307157), 2, 1, 0; (316083), 2, 1, 0; (316743), 3, 1, 0; (316746), 3, 1, 0; (317620), 4, 1, 0; (320465), 3, 1, 0; (322169), 2, 1, 0; (322357), 2, 1, 0; (322830), 2, 1, 0; (327190), 2, 1, 0; (330065), 2, 1, 0; (332641), 2, 1, 0; (361052), 2, 1, 0; (367931), 2, 1, 0; (368974), 2, 1, 0; (374360), 2, 1, 0; (383738), 2, 1, 0; (414045), 1, 1, 0; (415705), 2, 1, 0; (416813), 4, 1, 0; (423389), 2, 1, 0; (424146), 2, 1, 0; (430978), 2, 1, 0; (457747), 3, 1, 0; *[9820, 3090, 0∗, 2016/04/20–2016/05/18]*

Z62 Observatorio Forcarei
H. Gonzalez, Facultade de Ciencias do Mar, Despacho 12 Pavillón C 3 Andar, Lagoas - Marcosende, 36310 Vigo, Spain [hugogr@mundo-r.com]
0.50-m $f/8.2$ Ritchey-Chrétien + CCD
USNO-B1.0
2016 HF_3, 3, 1, 0; *[3, 1, 0∗, 2016/05/04]*

Z64 Observatorio el Miron del Cielo
V. Perez-Vazquez, Alfredo Brañas, 62 Oursensem, 32001, Spain [elmirondelcielo@gmail.com]
0.20-m $f/5$ Newtonian reflector + CCD
UCAC-3
(278), 4, 1, 0; (1148), 4, 1, 0; (388945), 4, 1, 0; *[12, 3, 0∗, 2016/04/28–2016/05/01]*

Z78 Arroyo Observatory, Arroyo Hurtado
J. A. Reyes de los Reyes García Candel, Paseo Rosales, 40-2^{o}A, Molina de Segura, Murcia 30500, Spain [joseantonio@astromurcia.es]
Observer S. P. Rodriguez
Measurer J. A. R. Garcia
0.30-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
(37), 3, 1, 0; (209), 3, 1, 0; (501), 3, 1, 0; *[9, 3, 0∗, 2016/05/01]*

Z80 Northolt Branch Observatory
G. Wells, Flat 5, 44 Dabbs Hill Lane, Northolt, Middlesex, UB5 4AG, England [northoltbranchastro@hotmail.com]
Observer G. Wells
Measurer D. Bamberger
0.15-m $f/10$ reflector + CCD + $f/6.3$ focal reducer
USNO-B1.0
2016 FE_1, 4, 1, 0; (627), 4, 1, 0; (1124), 4, 1, 0; (1518), 2, 1, 0; (15440), 4, 1, 0; (17129), 11, 1, 0; (97782), 2, 1, 0; (136108), 9, 1, 0; *[40, 8, 0∗, 2016/04/09–2016/05/14]*

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 YA_8, 3, 1, 0; (153652), 3, 1, 0; *[6, 2, 0∗, 2016/04/25–2016/04/26]*

Z87 Stanley Laver Observatory, Pontesbury
J. Livsey, 13 Ashford Drive, Pontesbury, Shrewsbury SY5 0QP, United Kingdom [julian.livsey@gmail.com]
0.20-m $f/5$ reflector + CCD
UCAC-4
(627), 2, 1, 0; (1124), 2, 1, 0; (1518), 2, 1, 0; *[6, 3, 0∗, 2016/04/27]*

Z90 Albox
J. L. Maestre Garcia, Brda Locaiba, 04800 Albox - Almeria, Spain [jlmaestre@hotmail.es]
0.4-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
(10), 7, 1, 0; *[7, 1, 0∗, 2016/05/03]*

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
2016 HJ_{19}, 3, 1, 0; 2016 HK_{19}, 3, 1, 0; 2016 JL, 3, 1, 0; 2016 JP, 3, 1, 0; 2016 JP_5, 3, 1, 0; 2016 JW_5, 3, 1, 0; 2016 JY_5, 3, 1, 0; 2016 JZ_5, 3, 1, 0; 2016 JG_6, 3, 1, 0; 2016 JP_{17}, 3, 1, 0; 2016 JQ_{17}, 3, 1, 0; 2016 JR_{17}, 3, 1, 0; (375311), 3, 1, 0; *[39, 13, 0∗, 2016/05/02–2016/05/08]*

ORBITAL ELEMENTS

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MPCADO (entirely automated processing on MPC computer ADONIS)
MPCALB (entirely automated processing on MPC computer ALBERT)
MPCAPO (entirely automated processing on MPC computer APOLLO)
MPCLINUX (entirely automated processing on MPC Linux cluster)
MPCMEL (entirely automated processing on MPC computer MELETE)

C/2010 U3 (Boattini)
Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

				MPCW	
T	2019 Feb. 26.64537 TT			**P**	**Q**
q	8.4456016		(2000.0)		
z	+0.0001997	ω	88.08638	−0.36204722	−0.74305667
	±0.0000010	Ω	43.06727	+0.07255743	−0.62443396
e	0.9983135	i	55.51182	+0.92933160	−0.24072600

From 472 observations 2009 Sept. 16–2016 Apr. 4, mean residual 0″.6.

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

				MPCW	
T	2015 Apr. 6.67692 TT				
q	3.4569562		(2000.0)	**P**	**Q**
z	−0.0005248	ω	104.01981	−0.01880457	+0.99845764
	±0.0000005	Ω	164.61395	−0.97640538	−0.00709753
e	1.0018143	i	11.35473	−0.21512538	−0.05506326

From 1441 observations 2012 Jan. 19–2016 Apr. 23, mean residual 0″.6.

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

				MPCW	
T	2014 Aug. 27.65611 TT				
q	1.0545527		(2000.0)	**P**	**Q**
z	−0.0001346	ω	203.10575	−0.47152715	+0.78070695
		Ω	317.73777	+0.87391011	+0.47595177
e	1.0001419	i	142.42860	+0.11808164	−0.40492786

From 7646 observations 2012 May 14–2016 May 4, mean residual 0″.5.
Nongravitational parameters $A_1 = +2.20$, $A_2 = -0.0605$.

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

				MPCW	
T	2014 Aug. 19.35325 TT				
q	6.4630080		(2000.0)	**P**	**Q**
z	−0.0002915	ω	75.85132	−0.03131407	−0.70868893
	±0.0000005	Ω	312.80741	−0.70286357	+0.51697879
e	1.0018838	i	106.11184	+0.71063509	+0.48009679

From 899 observations 2012 May 30–2016 May 5, mean residual 0″.5.

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

				MPCW	
T	2014 Oct. 25.30087 TT				
q	1.3987156		(2000.0)	**P**	**Q**
z	−0.0002726	ω	2.42176	+0.49141031	−0.56132743
		Ω	300.97676	−0.81154794	−0.57261434
e	1.0003813	i	129.04277	−0.31607886	+0.59751513

From 2812 observations 2012 Oct. 4–2016 Apr. 30, mean residual 0″.6.
Nongravitational parameters $A_1 = +2.08$, $A_2 = -0.2876$.

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

				MPCW	
T	2015 Aug. 30.25278 TT				
q	9.1310646		(2000.0)	**P**	**Q**
n	0.01531181	ω	308.78917	−0.91035839	+0.24121515
a	16.0614629	Ω	247.52482	−0.16364088	−0.95615485
e	0.4314923	i	21.33912	−0.38009114	−0.16608178
P	64.37				

From 350 observations 2013 Feb. 14–2016 May 15, mean residual 0″.5.

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

				MPCW	
T	2015 Jan. 14.76185 TT				
q	5.3374868		(2000.0)	**P**	**Q**
z	−0.0001664	ω	204.94556	−0.94096454	−0.09714368
	±0.0000006	Ω	35.68758	−0.13078081	+0.98788426
e	1.0008883	i	146.23036	−0.31222125	−0.12102811

From 427 observations 2013 Apr. 9–2016 Apr. 6, mean residual 0″.5.

C/2013 TW$_5$ (Spacewatch)
Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

				MPCW	
T	2014 Aug. 17.84010 TT				
q	5.8305711		(2000.0)	**P**	**Q**
z	+0.0023503	ω	190.39195	−0.84977839	−0.40534895
	±0.0000006	Ω	319.70476	+0.51327964	−0.49062630
e	0.9862965	i	31.40511	+0.12008622	−0.77134821

From 410 observations 2013 Oct. 3–2016 Mar. 30, mean residual 0″.4.

C/2013 U2 (Holvorcem)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Oct. 25.86222 TT				
q	5.1167339		(2000.0)	**P**	**Q**
z	+0.0011167	ω	107.37416	−0.38133659	−0.92067733
	±0.0000007	Ω	7.00168	+0.34188300	−0.22415654
e	0.9942863	i	43.09399	+0.85889372	−0.31954203

From 437 observations 2013 Oct. 23–2016 Apr. 27, mean residual 0″.4.

C/2013 US$_{10}$ (Catalina)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Nov. 15.72205 TT				
q	0.8229788		(2000.0)	**P**	**Q**
z	−0.0003908	ω	340.35947	−0.90560871	−0.42049021
	±0.0000001	Ω	186.14477	−0.28587100	+0.50884172
e	1.0003216	i	148.87832	−0.31329002	+0.75117780

From 3683 observations 2013 Aug. 14–2016 May 12, mean residual 0″.5.

C/2013 V2 (Borisov)
Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Oct. 14.36359 TT				
q	3.5079181		(2000.0)	**P**	**Q**
z	−0.0012370	ω	94.47205	−0.64068049	−0.61548833
	±0.0000002	Ω	48.42728	+0.18243642	−0.70274589
e	1.0043392	i	37.84839	+0.74581866	−0.35682256

From 1727 observations 2012 Nov. 17–2016 May 13, mean residual 0″.5.

C/2013 V4 (Catalina)
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

				MPCW	
T	2015 Oct. 7.60986 TT				
q	5.1853679		(2000.0)	**P**	**Q**
z	−0.0004908	ω	40.45030	+0.22784920	−0.60308481
	±0.0000004	Ω	55.62128	+0.46388158	−0.62303812
e	1.0025449	i	67.85531	+0.85609498	+0.49810863

From 1841 observations 2013 Oct. 23–2016 May 12, mean residual 0″.5.

C/2013 W2 (PANSTARRS)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

				MPCW	
T	2015 Jan. 5.29067 TT				
q	4.4444414		(2000.0)	**P**	**Q**
n	0.02918356	ω	307.19496	−0.60245271	−0.79815455
a	10.4482568	Ω	179.85032	+0.75520473	−0.57011817
e	0.5746236	i	4.56656	+0.25829548	−0.19471668
P	33.77				

From 156 observations 2013 Nov. 27–2016 May 5, mean residual 0″.5.

C/2013 X1 (PANSTARRS)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5

				MPCW	
T	2016 Apr. 20.72451 TT				
q	1.3142974		(2000.0)	**P**	**Q**
z	−0.0007582	ω	164.45705	+0.82527623	−0.52100565
		Ω	130.95657	−0.54400255	−0.62986964
e	1.0009965	i	163.23149	−0.15159279	−0.57603589

From 2709 observations 2013 Nov. 29–2016 May 17, mean residual 0″.7.
Nongravitational parameters $A_1 = +2.36$, $A_2 = +0.1603$.

C/2014 A4 (SONEAR)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Sept. 5.86031 TT				
q	4.1801957		(2000.0)	**P**	**Q**
z	−0.0001964	ω	356.78780	+0.85257245	+0.30630410
	±0.0000004	Ω	29.72718	+0.49650365	−0.72761406
e	1.0008212	i	121.35891	+0.16310837	+0.61380418

From 1844 observations 2014 Jan. 12–2016 Feb. 29, mean residual 0″.5.

C/2014 B1 (Schwartz)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5

				MPCW	
T	2017 Sept. 10.52123 TT				
q	9.5566722		(2000.0)	**P**	**Q**
z	−0.0003956	ω	345.84092	−0.85028653	−0.50401319
	±0.0000019	Ω	161.39566	+0.51720290	−0.85352559
e	1.0037806	i	28.37228	+0.09753958	+0.13215438

From 188 observations 2014 Jan. 28–2016 May 13, mean residual 0″.4.

C/2014 M1 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Aug. 26.52015 TT				
q	5.5766813		(2000.0)	**P**	**Q**
z	−0.0003898	ω	336.74418	−0.22817958	−0.93347281
	±0.0000016	Ω	234.67525	−0.83152513	+0.03900866
e	1.0021736	i	160.17557	−0.50645832	+0.35652046

From 72 observations 2014 June 24–2016 May 13, mean residual 0″.4.

C/2014 N3 (NEOWISE)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Mar. 13.23404 TT				
q	3.8822646		(2000.0)	**P**	**Q**
z	+0.0001384	ω	353.57137	+0.95234647	−0.05563992
	±0.0000004	Ω	19.92686	+0.30403821	+0.09440471
e	0.9994626	i	61.63486	+0.02443299	+0.99397784

From 1439 observations 2014 July 4–2016 Mar. 31, mean residual 0″.4.

C/2014 OE$_4$ (PANSTARRS)
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5

				MPCW	
T	2016 Dec. 10.74490 TT				
q	6.2443361		(2000.0)	**P**	**Q**
z	+0.0000871	ω	65.74284	−0.08368695	+0.50406332
	±0.0000003	Ω	240.40004	−0.74842011	+0.53774822
e	0.9994564	i	81.34887	+0.65792388	+0.67583062

From 291 observations 2014 May 8–2016 May 19, mean residual 0″.4.

C/2014 Q1 (PANSTARRS)
Epoch 2015 June 27.0 TT = JDT 2457200.5

				MPCW	
T	2015 July 6.51258 TT				
q	0.3145608		(2000.0)	**P**	**Q**
z	+0.0010540	ω	120.05277	−0.59120668	−0.79977421
		Ω	8.76150	+0.26771660	−0.31635335
e	0.9996685	i	43.10931	+0.76079070	−0.51017818

From 579 observations 2014 Aug. 16–2016 Feb. 29, mean residual 0″.4.
Nongravitational parameters $A_1 = +1.09$, $A_2 = +0.2707$.

C/2014 Q2 (Lovejoy)
Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

				MPCW	
T	2015 Jan. 30.06922 TT				
q	1.2903575		(2000.0)	**P**	**Q**
z	+0.0017106	ω	12.39491	−0.12073180	−0.14528992
	±0.0000001	Ω	94.97560	+0.80568060	−0.59223992
e	0.9977927	i	80.30211	+0.57991604	+0.79255455

From 6985 observations 2014 July 1–2016 May 16, mean residual 0″.5.

C/2014 R3 (PANSTARRS)
Epoch 2016 July 31.0 TT = JDT 2457600.5

				MPCW	
T	2016 Aug. 7.88978 TT				
q	7.2753745		(2000.0)	**P**	**Q**
z	+0.0000170	ω	113.40072	−0.36316110	−0.82311902
	±0.0000008	Ω	334.11210	−0.21699738	+0.53039081
e	0.9998763	i	90.83747	+0.90610493	−0.20288091

From 158 observations 2014 Sept. 6–2016 May 17, mean residual 0″.3.

C/2014 S2 (PANSTARRS)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Dec. 9.79975 TT				
q	2.1006718		(2000.0)	**P**	**Q**
z	+0.0058788	ω	87.80766	−0.02253148	−0.99155637
	±0.0000003	Ω	8.12233	+0.03398673	−0.12842222
e	0.9876506	i	64.67037	+0.99916827	−0.01799154

From 2225 observations 2014 Sept. 2–2016 May 17, mean residual 0″.7.

C/2014 W2 (PANSTARRS)
Epoch 2016 Feb. 22.0 TT = JDT 2457440.5

				MPCW	
T	2016 Mar. 10.48590 TT				
q	2.6701858		(2000.0)	**P**	**Q**
z	+0.0006298	ω	85.01031	−0.10047603	−0.35270687
	±0.0000003	Ω	69.96274	−0.27385050	−0.88913493
e	0.9983184	i	81.99855	+0.95650952	−0.29161093

From 1923 observations 2014 Oct. 24–2016 May 17, mean residual 0″.4.

P/2014 W4 (PANSTARRS)
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5

				MPCW	
T	2015 Dec. 29.66943 TT				
q	4.2610611		(2000.0)	**P**	**Q**
n	0.05830124	ω	67.43355	−0.16921199	−0.97487906
a	6.5869470	Ω	33.35274	+0.77950495	−0.22230645
e	0.3531053	i	15.27440	+0.60310807	+0.01380807
P	16.91				

From 66 observations 2014 Oct. 25–2016 May 5, mean residual 0″.3.

C/2014 W11 (PANSTARRS)
Epoch 2015 June 27.0 TT = JDT 2457200.5

				MPCW	
T	2015 June 17.32260 TT				
q	3.4268054		(2000.0)	**P**	**Q**
n	0.03217105	ω	225.64083	−0.93300767	−0.30062880
a	9.7909733	Ω	295.93652	+0.35952164	−0.80242613
e	0.6500036	i	12.70537	−0.01552021	−0.51549456
P	30.64				

From 982 observations 2014 Nov. 3–2016 May 18, mean residual 0″.4.

C/2014 Y1 (PANSTARRS)
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5

				MPCW	
T	2016 Jan. 17.58517 TT				
q	2.2420620		(2000.0)	**P**	**Q**
z	−0.0008145	ω	182.26283	−0.92935252	+0.35906788
	±0.0000015	Ω	19.47190	−0.33455397	−0.72069322
e	1.0018261	i	14.92829	−0.15613305	−0.59301901

From 271 observations 2014 Nov. 17–2016 Apr. 21, mean residual 0″.5.

C/2015 B2 (PANSTARRS)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 6.57479 TT				
q	3.3696164		(2000.0)	**P**	**Q**
z	−0.0001237	ω	284.76893	+0.32049949	+0.89850958
	±0.0000014	Ω	341.90201	+0.51822862	−0.43136882
e	1.0004170	i	105.08804	−0.79291814	+0.08124949

From 155 observations 2015 Jan. 6–2016 Mar. 11, mean residual 0″.4.

P/2015 B4 (Lemmon-PANSTARRS)
Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

				MPCW	
T	2015 Feb. 19.92976 TT				
q	3.7585242		(2000.0)	**P**	**Q**
n	0.03805584	ω	227.59331	−0.70439301	−0.70915528
a	8.7536371	Ω	267.21496	+0.65987381	−0.63840999
e	0.5706329	i	1.74894	+0.26152827	−0.29921809
P	25.90				

From 78 observations 2015 Jan. 16–2016 Apr. 27, mean residual 0″.3.

P/2015 C1 (TOTAS-Gibbs)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 1.25213 TT				
q	2.8927009		(2000.0)	**P**	**Q**
n	0.05804474	ω	178.40528	−0.97556336	−0.21477604
a	6.6063382	Ω	348.86136	+0.19883915	−0.77326582
e	0.5621325	i	13.87916	+0.09348331	−0.59659972
P	16.98				

From 277 observations 2015 Jan. 23–2016 Apr. 14, mean residual 0″.4.

C/2015 D3 (PANSTARRS)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 Apr. 30.75318 TT				
q	8.1488448		(2000.0)	**P**	**Q**
z	−0.0003104	ω	2.84776	−0.90713816	+0.28890716
	±0.0000020	Ω	156.98045	+0.36899134	+0.19642246
e	1.0025294	i	128.50942	+0.20235057	+0.93699033

From 146 observations 2015 Feb. 17–2016 May 11, mean residual 0″.5.

C/2015 ER$_{61}$ (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5

				MPCW	
T	2017 May 9.95257 TT				
q	1.0421215		(2000.0)	**P**	**Q**
z	+0.0026024	ω	68.19850	+0.54603428	+0.83282479
	±0.0000028	Ω	235.21733	−0.80367997	+0.49012317
e	0.9972879	i	6.34908	−0.23652711	+0.25725891

From 444 observations 2015 Jan. 21–2016 May 13, mean residual 0″.3.

C/2015 F4 (Jacques)
Epoch 2015 Aug. 6.0 TT = JDT 2457240.5

				MPCW	
T	2015 Aug. 10.86272 TT				
q	1.6439256		(2000.0)	**P**	**Q**
z	+0.0085932	ω	36.34636	+0.59749436	+0.34811549
	±0.0000004	Ω	285.95816	−0.78897025	+0.41617009
e	0.9858734	i	48.70505	+0.14327052	+0.84001075

From 2702 observations 2015 Mar. 27–2016 Feb. 29, mean residual 0″.4.

C/2015 G2 (MASTER)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 23.78567 TT				
q	0.7798764		(2000.0)	**P**	**Q**
z	−0.0004735	ω	257.45850	−0.69940303	−0.50694396
	±0.0000009	Ω	110.05822	−0.23812565	+0.82992654
e	1.0003692	i	147.56369	−0.67389285	+0.23287284

From 482 observations 2015 Apr. 8–2016 Feb. 5, mean residual 0″.6.

C/2015 H2 (PANSTARRS)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5

				MPCW	
T	2016 Sept. 13.27617 TT				
q	4.9670308		(2000.0)	**P**	**Q**
z	−0.0006507	ω	287.90865	+0.17542368	+0.98039358
	±0.0000056	Ω	350.69243	−0.55230383	+0.02253739
e	1.0032320	i	33.70518	−0.81497669	+0.19575623

From 62 observations 2015 Apr. 20–2016 Apr. 12, mean residual 0″.4.

P/2015 HG$_{16}$ (PANSTARRS)
Epoch 2014 July 2.0 TT = JDT 2456840.5

				MPCW	
T	2014 June 28.97445 TT		(2000.0)	**P**	**Q**
q	3.1317742	ω	48.15290	−0.26917945	−0.92187644
n	0.09400685	Ω	59.52584	+0.75969972	−0.38112329
a	4.7903037	i	18.86850	+0.59194490	+0.06992046
e	0.3462264				
P	10.48				

From 36 observations 2015 Mar. 24–2016 Apr. 9, mean residual 0″.2.

C/2015 J1 (PANSTARRS)
Epoch 2014 July 2.0 TT = JDT 2456840.5

				MPCW	
T	2014 June 29.80442 TT		(2000.0)	**P**	**Q**
q	6.0191812	ω	315.45084	−0.50664133	−0.57755672
z	−0.0005152	Ω	219.98386	−0.18527427	−0.65217232
	±0.0000042	i	95.01537	−0.84201425	+0.49101884
e	1.0031008				

From 50 observations 2015 May 14–2016 May 1, mean residual 0″.4.

C/2015 J2 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Sept. 8.91103 TT		(2000.0)	**P**	**Q**
q	4.3203692	ω	203.68908	−0.18117168	+0.95155227
z	+0.0040371	Ω	56.75541	−0.84815422	−0.02330420
	±0.0000026	i	17.28131	−0.49780643	−0.30660265
e	0.9825582				

From 82 observations 2015 Mar. 21–2016 Apr. 19, mean residual 0″.4.

C/2015 LC$_2$ (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5

				MPCW	
T	2015 May 1.59684 TT		(2000.0)	**P**	**Q**
q	5.8905487	ω	341.82515	−0.67449555	−0.26847342
z	−0.0003298	Ω	223.56558	−0.49040171	−0.53340704
	±0.0000022	i	93.71809	−0.55187129	+0.80212153
e	1.0019428				

From 159 observations 2015 June 7–2016 May 17, mean residual 0″.5.

C/2015 O1 (PANSTARRS)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5

				MPCW	
T	2018 Feb. 19.04889 TT		(2000.0)	**P**	**Q**
q	3.7295251	ω	89.59821	−0.52098019	−0.50148175
z	−0.0000291	Ω	299.85561	−0.59857219	+0.79153823
	±0.0000070	i	127.21043	+0.60851539	+0.34926105
e	1.0001084				

From 143 observations 2015 June 15–2016 May 12, mean residual 0″.4.

C/2015 T4 (PANSTARRS)
Epoch 2016 June 21.0 TT = JDT 2457560.5

				MPCW	
T	2016 June 18.95542 TT		(2000.0)	**P**	**Q**
q	2.2963415	ω	270.13949	−0.03525697	−0.31242571
z	+0.0114877	Ω	251.78940	+0.40580421	−0.87251981
	±0.0000021	i	87.91884	−0.91327974	−0.37563193
e	0.9736204				

From 322 observations 2015 Oct. 14–2016 May 4, mean residual 0″.5.

C/2015 TQ$_{209}$ (LINEAR)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5

				MPCW	
T	2016 Aug. 27.58818 TT		(2000.0)	**P**	**Q**
q	1.4129691	ω	281.51178	−0.81162616	−0.56778085
z	+0.0006937	Ω	224.08282	+0.58269096	−0.77006812
	±0.0000115	i	11.39357	+0.04164406	−0.29089517
e	0.9990198				

From 256 observations 2015 Oct. 10–2016 Mar. 5, mean residual 0″.4.

C/2015 V1 (PANSTARRS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5

				MPCW	
T	2017 Dec. 17.74848 TT		(2000.0)	**P**	**Q**
q	4.2667568	ω	179.64016	+0.95388449	+0.22986748
z	−0.0001124	Ω	197.19400	+0.27374709	−0.40230862
	±0.0000061	i	139.22920	+0.12315404	−0.88617646
e	1.0004796				

From 143 observations 2015 Nov. 2–2016 Apr. 4, mean residual 0″.4.

C/2015 V2 (Johnson)
Epoch 2017 June 16.0 TT = JDT 2457920.5

				MPCW	
T	2017 June 12.34977 TT		(2000.0)	**P**	**Q**
q	1.6369789	ω	164.89777	−0.49021693	+0.49434215
z	−0.0010757	Ω	69.84938	−0.85775483	−0.12740026
	±0.0000051	i	49.87655	−0.15473854	−0.85988081
e	1.0017608				

From 1005 observations 2015 Nov. 3–2016 May 17, mean residual 0″.4.

C/2015 V3 (PANSTARRS)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Nov. 24.85101 TT		(2000.0)	**P**	**Q**
q	4.2355583	ω	0.81880	+0.99902491	−0.01696428
z	+0.0012508	Ω	2.34113	+0.03266391	−0.33713533
	±0.0000277	i	86.22958	+0.02970338	+0.94130334
e	0.9947022				

From 70 observations 2015 Nov. 2–Dec. 31, mean residual 0″.5.

C/2015 V4 (PANSTARRS)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5

				MPCW	
T	2016 Aug. 28.03848 TT		(2000.0)	**P**	**Q**
q	5.4598110	ω	306.91027	−0.59985613	−0.80010633
n	0.01234775	Ω	179.89640	+0.63693615	−0.47632884
a	18.5386258	i	60.75134	−0.48423648	+0.36461033
e	0.7054900				
P	79.82				

From 64 observations 2015 Nov. 3–2016 May 3, mean residual 0″.3.

C/2015 VL$_{62}$ (Lemmon-Yeung-PANSTARRS)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5

				MPCW	
T	2017 Aug. 28.69810 TT		(2000.0)	**P**	**Q**
q	2.7208159	ω	128.36141	+0.80636178	−0.53706146
z	−0.0005870	Ω	94.54994	−0.58982974	−0.69955685
	±0.0000143	i	165.61338	−0.04337696	−0.47136525
e	1.0015973				

From 65 observations 2015 Nov. 2–2016 Mar. 5, mean residual 0″.3.

C/2015 WZ (PANSTARRS)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5

				MPCW	
T	2016 Apr. 15.79865 TT				
q	1.3766484		(2000.0)	**P**	**Q**
z	+0.0051458	ω	66.70981	+0.71420346	−0.52600784
	±0.0000025	Ω	40.04555	−0.47805944	−0.84846128
e	0.9929160	i	134.13485	+0.51124611	−0.05855948

From 157 observations 2015 Oct. 25–2016 May 19, mean residual 0″.6.

C/2015 W1 (Gibbs)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 17.20015 TT				
q	2.2318593		(2000.0)	**P**	**Q**
z	−0.0005799	ω	48.11669	−0.30665442	+0.27805352
	±0.0000064	Ω	114.31418	+0.24920288	−0.89956420
e	1.0012942	i	87.31605	+0.91861907	+0.33685381

From 323 observations 2015 Nov. 18–2016 Apr. 30, mean residual 0″.5.

C/2015 XY$_1$ (Lemmon)
Epoch 2018 May 2.0 TT = JDT 2458240.5

				MPCW	
T	2018 Apr. 29.86681 TT				
q	7.9281097		(2000.0)	**P**	**Q**
z	−0.0005264	ω	196.34852	+0.04274320	+0.86105417
	±0.0000149	Ω	281.61615	+0.96477686	+0.09619756
e	1.0041736	i	148.84809	+0.25957394	−0.49933129

From 68 observations 2015 Dec. 4–2016 May 11, mean residual 0″.4.

C/2015 X2 (Catalina)
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Dec. 20.71713 TT				
q	1.9045688		(2000.0)	**P**	**Q**
n	0.01576195	ω	42.01805	−0.34093121	−0.09092323
a	15.7541881	Ω	101.09455	+0.37939526	−0.92396505
e	0.8791071	i	72.45889	+0.86013089	+0.37151251
P	62.53				

From 40 observations 2015 Dec. 2–2016 Feb. 7, mean residual 0″.6.

C/2015 X4 (Elenin)
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

				MPCW	
T	2015 Nov. 3.43631 TT				
q	3.3946215		(2000.0)	**P**	**Q**
n	0.01275868	ω	176.32212	+0.18328095	−0.85313996
a	18.1384006	Ω	262.63573	+0.88890816	+0.35600443
e	0.8128489	i	29.50429	+0.41982185	−0.38133064
P	77.25				

From 524 observations 2015 Dec. 3–2016 Apr. 24, mean residual 0″.4.

C/2015 X5 (PANSTARRS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5

				MPCW	
T	2017 Dec. 30.98087 TT				
q	6.8019096		(2000.0)	**P**	**Q**
z	−0.0005026	ω	27.74856	−0.25139020	+0.67028385
	±0.0000121	Ω	122.31402	+0.66186643	−0.40731185
e	1.0034188	i	124.29196	+0.70621229	+0.62033589

From 46 observations 2015 Dec. 6–2016 Apr. 4, mean residual 0″.3.

C/2015 X7 (ATLAS)
Epoch 2016 July 31.0 TT = JDT 2457600.5

				MPCW	
T	2016 July 30.22362 TT				
q	3.6845923		(2000.0)	**P**	**Q**
z	−0.0004528	ω	348.48230	−0.68037525	−0.49117818
	±0.0000058	Ω	139.88462	+0.72141049	−0.57957052
e	1.0016683	i	57.58024	+0.12905974	+0.65026303

From 168 observations 2015 Dec. 12–2016 May 1, mean residual 0″.5.

C/2015 X8 (NEOWISE)
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

				MPCW	
T	2015 Oct. 23.12095 TT				
q	1.1901434		(2000.0)	**P**	**Q**
n	0.01142227	ω	20.38400	−0.98076353	+0.17781690
a	19.5269510	Ω	191.10291	+0.06130408	+0.67223503
e	0.9390512	i	155.28225	+0.18532326	+0.71866627
P	86.29				

From 92 observations 2015 Dec. 14–2016 Jan. 24, mean residual 0″.5.

C/2015 Y1 (LINEAR)
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 15.17555 TT				
q	2.5140512		(2000.0)	**P**	**Q**
z	+0.0034218	ω	24.70833	−0.74490090	+0.09552414
	±0.0000040	Ω	135.77713	+0.33540018	−0.80192868
e	0.9913973	i	71.21521	+0.57674030	+0.58973345

From 517 observations 2015 Dec. 16–2016 May 9, mean residual 0″.6.

C/2015 YG$_1$ (NEOWISE)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

				MPCW	
T	2015 Sept. 28.95191 TT				
q	2.0734108		(2000.0)	**P**	**Q**
n	0.01389500	ω	102.78567	−0.13151604	−0.98155247
a	17.1355101	Ω	350.51185	+0.18319007	+0.11351487
e	0.8789992	i	57.33637	+0.97424069	−0.15384770
P	70.93				

From 196 observations 2015 Dec. 17–2016 May 5, mean residual 0″.6.

C/2016 A1 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5

				MPCW	
T	2017 Nov. 23.35539 TT				
q	5.3279000		(2000.0)	**P**	**Q**
z	−0.0003819	ω	10.31799	−0.53515835	+0.51118481
	±0.0000154	Ω	128.17483	+0.70123680	−0.17509680
e	1.0020347	i	121.18550	+0.47103342	+0.84144590

From 100 observations 2016 Jan. 1–May 13, mean residual 0″.4.

P/2016 A2 (Christensen)
Epoch 2015 June 27.0 TT = JDT 2457200.5
T 2015 June 25.65406 TT MPCW

				P	**Q**
q	3.4354298		(2000.0)		
n	0.09568741	ω	141.06008	+0.23370377	−0.88015097
a	4.7340502	Ω	291.80219	+0.74311554	+0.43572716
e	0.2743149	i	26.42396	+0.62702619	−0.18835103

P 10.30
From 44 observations 2016 Jan. 2–17, mean residual 0″.5.

P/2016 A3 (PANSTARRS)
Epoch 2017 Mar. 28.0 TT = JDT 2457840.5
T 2017 Apr. 13.51754 TT MPCW

				P	**Q**
q	4.7889101		(2000.0)		
n	0.04591070	ω	338.47122	−0.97086183	−0.23878084
a	7.7243174	Ω	187.79777	+0.23584397	−0.93705915
e	0.3800216	i	8.59365	+0.04248452	−0.25476235

P 21.47
From 42 observations 2016 Jan. 4–Mar. 10, mean residual 0″.4.

P/2016 A7 (PANSTARRS)
Epoch 2016 Feb. 22.0 TT = JDT 2457440.5
T 2016 Feb. 25.86345 TT MPCW

				P	**Q**
q	2.1766369		(2000.0)		
n	0.08756032	ω	352.46995	−0.82602918	+0.53078535
a	5.0226298	Ω	221.46604	−0.50104660	−0.84557152
e	0.5666340	i	16.63699	−0.25812420	−0.05723389

P 11.26
From 37 observations 2016 Jan. 14–May 13, mean residual 0″.4.

C/2016 B1 (NEOWISE)
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5
T 2016 Dec. 4.72052 TT MPCW

				P	**Q**
q	3.2061161		(2000.0)		
z	+0.0022928	ω	8.56077	−0.53482828	+0.58734024
	±0.0000344	Ω	231.95356	−0.81371862	−0.55169888
e	0.9926489	i	50.47511	−0.22764164	+0.59216534

From 65 observations 2016 Jan. 17–May 15, mean residual 0″.4.

P/2016 BA$_{14}$ (PANSTARRS)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Mar. 15.51742 TT MPCW

				P	**Q**
q	1.0085745		(2000.0)		
n	0.18755723	ω	351.89525	−0.99121467	−0.13222824
a	3.0225965	Ω	180.53526	+0.13205423	−0.98810498
e	0.6663218	i	18.92016	+0.00742717	−0.07851263

P 5.25
From 1753 observations 2015 Dec. 1–2016 May 16, mean residual 0″.4.

C/2016 C1 (PANSTARRS)
Epoch 2016 Feb. 22.0 TT = JDT 2457440.5
T 2016 Feb. 15.53861 TT MPCW

				P	**Q**
q	8.4588167		(2000.0)		
z	−0.0005586	ω	328.51980	−0.86145835	−0.50716909
	±0.0000063	Ω	181.78424	+0.41477830	−0.73208601
e	1.0047254	i	56.17387	−0.29299910	+0.45478521

From 90 observations 2016 Feb. 12–May 6, mean residual 0″.4.

C/2016 C2 (NEOWISE)
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Apr. 19.59840 TT MPCW

				P	**Q**
q	1.5597342		(2000.0)		
z	+0.0156856	ω	214.40419	−0.56778373	+0.78260072
	±0.0000105	Ω	24.40420	−0.54512509	−0.12510967
e	0.9755346	i	38.15619	−0.61681462	−0.60982266

From 135 observations 2016 Feb. 8–May 15, mean residual 0″.5.

C/2016 E1 (PANSTARRS)
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 June 1.27764 TT MPCW

				P	**Q**
q	8.1772428		(2000.0)		
z	−0.0004503	ω	47.30341	−0.79988606	+0.08010749
	±0.0000647	Ω	233.03759	−0.44399644	+0.58781128
e	1.0036819	i	131.89419	+0.40379383	+0.80502217

From 42 observations 2016 Mar. 3–May 6, mean residual 0″.3.

P/2016 G1 (PANSTARRS)
Epoch 2017 Jan. 7.0 TT = JDT 2457760.5
T 2017 Jan. 26.26247 TT MPCW

				P	**Q**
q	2.0403084		(2000.0)		
n	0.23739536	ω	111.30870	+0.70487094	+0.70507726
a	2.5831794	Ω	204.07386	−0.70066274	+0.67501627
e	0.2101561	i	10.96772	−0.11058340	+0.21729952

P 4.15
From 100 observations 2016 Mar. 12–May 10, mean residual 0″.5.

P/2016 J1-A (PANSTARRS)
T 2016 Aug. 25.57147 TT MPCW

				P	**Q**
q	2.3265518		(2000.0)		
n	0.17892609	ω	68.29287	−0.07443061	+0.99466429
a	3.1190351	Ω	197.88809	−0.97915147	−0.08647061
e	0.2540796	i	13.44834	−0.18900393	+0.05626525

P 5.51
From 24 observations 2016 May 5–8.

P/2016 J1-B (PANSTARRS)
T 2016 Aug. 25.21488 TT MPCW

				P	**Q**
q	2.3265518		(2000.0)		
n	0.17892609	ω	68.20686	−0.07592361	+0.99455144
a	3.1190351	Ω	197.88809	−0.97902057	−0.08794031
e	0.2540796	i	13.44834	−0.18908817	+0.05598147

P 5.51
From 10 observations 2016 May 6–8.

C/2016 J2 (Denneau)

				MPCW	
T	2016 Apr. 11.97608 TT			**P**	**Q**
q	1.5186681		(2000.0)		
		ω	318.49105	−0.69824245	−0.71113164
		Ω	186.18794	−0.26448118	+0.14962467
e	1.0	i	130.34448	−0.66521214	+0.68695287

From 51 observations 2016 May 6–14.

14P/Wolf

Epoch 2017 Nov. 23.0 TT = JDT 2458080.5

				MPCW	
T	2017 Dec. 1.99905 TT			**P**	**Q**
q	2.7430380		(2000.0)		
n	0.11212495	ω	159.02392	+0.98413332	+0.02097364
a	4.2592638	Ω	202.11610	−0.01300916	+0.99884569
e	0.3559831	i	27.90314	+0.17695304	−0.04321325
P	8.79				

From 207 observations 1950 June 18–2016 May 13, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.05$, $A_2 = +0.0025$.

29P/Schwassmann-Wachmann

Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

				MPCW	
T	2019 Mar. 7.75676 TT			**P**	**Q**
q	5.7668223		(2000.0)		
n	0.06662629	ω	47.77438	+0.99270157	−0.00956979
a	6.0261366	Ω	312.39464	−0.05135108	+0.86841753
e	0.0430316	i	9.36834	+0.10911767	+0.49574127
P	14.79				

From 19331 observations 1902 Mar. 5–2016 May 18, mean residual 0″.6.

40P/Väisälä

Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

				MPCW	
T	2014 Nov. 15.81319 TT			**P**	**Q**
q	1.8195633		(2000.0)		
n	0.08978217	ω	47.27229	−0.98918815	+0.02922786
a	4.9394204	Ω	133.84020	−0.06667292	−0.96243927
e	0.6316241	i	11.49278	+0.13061976	−0.26991921
P	10.98				

From 1025 observations 1939 Mar. 14–2015 Aug. 12, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.03$, $A_2 = -0.0108$.

53P/Van Biesbroeck

Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 Apr. 29.93691 TT			**P**	**Q**
q	2.4271138		(2000.0)		
n	0.07826337	ω	134.19761	+0.22945767	+0.97150411
a	5.4129044	Ω	148.92284	−0.92260772	+0.23654065
e	0.5516060	i	6.60840	−0.31007124	+0.01510892
P	12.59				

From 1786 observations 1954 Sept. 3–2016 May 17, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.01$, $A_2 = -0.0210$.

65P/Gunn

Epoch 2017 Oct. 14.0 TT = JDT 2458040.5

				MPCW	
T	2017 Oct. 16.78566 TT			**P**	**Q**
q	2.9100262		(2000.0)		
n	0.12896200	ω	213.54474	+0.09066865	+0.98585529
a	3.8799686	Ω	62.01739	−0.87502759	+0.14644458
e	0.2499872	i	9.18464	−0.47550595	−0.08150662
P	7.64				

From 3739 observations 1997 June 11–2016 May 13, mean residual 0″.8.
Nongravitational parameters $Y_1 = +0.22$, $Y_2 = +0.0179$.

77P/Longmore

Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 13.64622 TT			**P**	**Q**
q	2.3377234		(2000.0)		
n	0.14328445	ω	196.72750	−0.85889948	+0.50119600
a	3.6169014	Ω	14.80322	−0.40990114	−0.54943745
e	0.3536668	i	24.34609	−0.30703865	−0.66852154
P	6.88				

From 1538 observations 1981 Jan. 3–2016 May 18, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.15$, $A_2 = -0.0468$.

89P/Russell

Epoch 2016 Nov. 28.0 TT = JDT 2457720.5

				MPCW	
T	2016 Dec. 14.69745 TT			**P**	**Q**
q	2.2204870		(2000.0)		
n	0.13567115	ω	250.15237	+0.35430593	+0.92481884
a	3.7509768	Ω	41.44516	−0.76047259	+0.37113421
e	0.4080243	i	12.07658	−0.54419551	+0.08348362
P	7.26				

From 131 observations 1987 July 1–2016 May 13, mean residual 0″.6.
Nongravitational parameters $A_1 = +0.52$, $A_2 = -0.0328$.

104P/Kowal

Epoch 2016 Apr. 2.0 TT = JDT 2457480.5

				MPCW	
T	2016 Mar. 28.15324 TT			**P**	**Q**
q	1.1791523		(2000.0)		
n	0.16727746	ω	200.66932	+0.24482785	−0.95841919
a	3.2622039	Ω	235.43325	+0.91268587	+0.27884254
e	0.6385412	i	10.25502	+0.32720610	−0.06065882
P	5.89				

From 126 observations 2003 Aug. 31–2016 May 16, mean residual 1″.0.
Nongravitational parameters $A_1 = -2.30$, $A_2 = -0.2410$.

121P/Shoemaker-Holt

Epoch 2013 Sept. 25.0 TT = JDT 2456560.5

				MPCW	
T	2013 Sept. 8.27559 TT			**P**	**Q**
q	3.7549473		(2000.0)		
n	0.09919633	ω	12.51692	−0.27481629	−0.89792376
a	4.6217415	Ω	94.22534	+0.84976753	−0.39412567
e	0.1875471	i	20.16667	+0.44985680	+0.19595374
P	9.94				

From 545 observations 1989 Mar. 4–2016 May 6, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.70$, $A_2 = +0.0433$.

129P/Shoemaker-Levy
Epoch 2014 Jan. 23.0 TT = JDT 2456680.5

				MPCW	
T	2014 Feb. 11.55149 TT				
q	3.9137208		(2000.0)	**P**	**Q**
n	0.11089739	ω	309.49688	−0.70026287	−0.71386625
a	4.2906377	Ω	184.96085	+0.67200363	−0.65671215
e	0.0878463	i	3.43738	+0.24092123	−0.24315453
P	8.89				

From 614 observations 1991 Feb. 7–2016 May 7, mean residual 0″.8.
Nongravitational parameters $Y_1 = +0.18$, $Y_2 = -0.0346$.

146P/Shoemaker-LINEAR
Epoch 2016 June 21.0 TT = JDT 2457560.5

				MPCW	
T	2016 June 30.12919 TT				
q	1.4300901		(2000.0)	**P**	**Q**
n	0.12136520	ω	316.97835	+0.93962325	−0.13409818
a	4.0402347	Ω	53.45435	+0.30231220	+0.75639631
e	0.6460379	i	23.07253	−0.16036047	+0.64022051
P	8.12				

From 18 observations 2008 Aug. 21–2016 May 4, mean residual 0″.9.

158P/Kowal-LINEAR
Epoch 2012 Sept. 30.0 TT = JDT 2456200.5

				MPCW	
T	2012 Sept. 27.47405 TT				
q	4.5764196		(2000.0)	**P**	**Q**
n	0.09607374	ω	232.84880	+0.97920053	−0.18017700
a	4.7213506	Ω	137.30454	+0.20024295	+0.93229001
e	0.0306969	i	7.90735	−0.03269674	+0.31364245
P	10.26				

From 567 observations 1979 July 24–2016 May 2, mean residual 0″.6.

180P/NEAT
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

				MPCW	
T	2015 Dec. 12.71803 TT				
q	2.4893534		(2000.0)	**P**	**Q**
n	0.12994845	ω	94.87101	−0.95726873	−0.01316300
a	3.8603081	Ω	84.58322	−0.10999083	−0.90732218
e	0.3551413	i	16.86970	+0.26746701	−0.42022993
P	7.58				

From 620 observations 1955 May 14–2016 May 17, mean residual 0″.7.
Nongravitational parameters $A_1 = -1.03$, $A_2 = +0.0621$.

186P/Garradd
Epoch 2019 Apr. 27.0 TT = JDT 2458600.5

				MPCW	
T	2019 May 4.94530 TT				
q	4.3894698		(2000.0)	**P**	**Q**
n	0.08790517	ω	283.79817	−0.26418242	+0.92914498
a	5.0094853	Ω	327.06875	−0.59294678	−0.36797265
e	0.1237683	i	28.40963	−0.76067192	−0.03585721
P	11.21				

From 175 observations 1975 May 31–2016 May 2, mean residual 0″.6.

188P/LINEAR-Mueller
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5

				MPCW	
T	2017 Feb. 17.03747 TT				
q	2.5651363		(2000.0)	**P**	**Q**
n	0.10738318	ω	26.77074	+0.90054864	−0.43474318
a	4.3837441	Ω	358.98126	+0.35900534	+0.74782797
e	0.4148526	i	10.51134	+0.24520872	+0.50174864
P	9.18				

From 883 observations 1998 Sept. 17–2016 Apr. 19, mean residual 0″.7.
Nongravitational parameters $A_1 = +1.80$, $A_2 = -0.3021$.

216P/LINEAR
Epoch 2016 May 12.0 TT = JDT 2457520.5

				MPCW	
T	2016 May 31.16255 TT				
q	2.1497538		(2000.0)	**P**	**Q**
n	0.12913716	ω	151.59604	−0.87857244	−0.47760898
a	3.8764593	Ω	359.87302	+0.40303150	−0.74099352
e	0.4454337	i	9.04830	+0.25627344	−0.47203629
P	7.63				

From 138 observations 2001 Feb. 1–2016 Apr. 27, mean residual 0″.6.

219P/LINEAR
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5

				MPCW	
T	2017 Feb. 20.61927 TT				
q	2.3652331		(2000.0)	**P**	**Q**
n	0.14118210	ω	107.40996	+0.91503570	+0.37224815
a	3.6527193	Ω	231.02512	−0.40197296	+0.87356291
e	0.3524733	i	11.52864	+0.03357688	+0.31355885
P	6.98				

From 519 observations 2002 June 5–2016 May 15, mean residual 0″.7.
Nongravitational parameters $A_1 = -1.63$, $A_2 = -0.0974$.

237P/LINEAR
Epoch 2016 Oct. 19.0 TT = JDT 2457680.5

				MPCW	
T	2016 Oct. 11.67445 TT				
q	1.9848401		(2000.0)	**P**	**Q**
n	0.14990679	ω	25.04096	−0.00318789	+0.97540944
a	3.5095803	Ω	245.43370	−0.95343601	−0.06942654
e	0.4344509	i	14.02300	−0.30157853	+0.20918024
P	6.57				

From 119 observations 2002 May 17–2016 Apr. 16, mean residual 0″.5.

252P/LINEAR
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5

				MPCW	
T	2016 Mar. 15.27116 TT				
q	0.9960724		(2000.0)	**P**	**Q**
n	0.18515648	ω	343.31473	−0.99409742	−0.10290256
a	3.0486678	Ω	190.95188	+0.10805029	−0.96758834
e	0.6732762	i	10.42308	−0.00976962	−0.23061630
P	5.32				

From 1338 observations 2011 June 9–2016 May 18, mean residual 0″.9.
Nongravitational parameters $A_1 = +0.59$, $A_2 = -0.0205$.

279P/La Sagra
Epoch 2016 July 31.0 TT = JDT 2457600.5
T 2016 July 14.54916 TT MPCW

			(2000.0)	P	Q
q	2.1592089				
n	0.14545053	ω	5.87658	+0.99047908	+0.13606647
a	3.5809026	Ω	346.25012	−0.12961553	+0.87059135
e	0.3970210	i	5.04641	−0.04637905	+0.47281774
P	6.78				

From 134 observations 2002 July 11–2016 May 4, mean residual 0″.5.

314P/Montani
Epoch 2016 Oct. 19.0 TT = JDT 2457680.5
T 2016 Oct. 7.86441 TT MPCW

			(2000.0)	P	Q
q	4.2337659				
n	0.05037361	ω	213.74159	−0.52035274	−0.85113258
a	7.2610706	Ω	267.70411	+0.79801678	−0.45576493
e	0.4169226	i	3.97859	+0.30397739	−0.26048352
P	19.57				

From 217 observations 1997 Apr. 9–2016 Apr. 4, mean residual 0″.6.

318P/McNaught-Hartley
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5
T 2015 Oct. 22.47386 TT MPCW

			(2000.0)	P	Q
q	2.4482473				
n	0.04783734	ω	313.22398	+0.96093354	+0.21097225
a	7.5155030	Ω	35.72497	−0.06074977	+0.79227683
e	0.6742404	i	17.86840	−0.27002998	+0.57252784
P	20.60				

From 389 observations 1994 July 5–2016 Feb. 5, mean residual 0″.6.

329P/LINEAR-Catalina
Epoch 2015 Dec. 4.0 TT = JDT 2457360.5
T 2015 Dec. 5.55177 TT MPCW

			(2000.0)	P	Q
q	1.6595585				
n	0.08355489	ω	342.37860	+0.30204132	−0.88032129
a	5.1818895	Ω	88.77534	+0.91276541	+0.15636646
e	0.6797387	i	21.46162	+0.27500974	+0.44786600
P	11.80				

From 626 observations 2003 Nov. 18–2016 Mar. 13, mean residual 0″.5.

330P/Catalina
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Aug. 29.96523 TT MPCW

			(2000.0)	P	Q
q	2.9530181				
n	0.05850549	ω	186.94476	−0.51578149	−0.82111729
a	6.5716080	Ω	294.37544	+0.79836709	−0.35718992
e	0.5506400	i	15.56478	+0.31077235	−0.44517610
P	16.85				

From 191 observations 1999 Nov. 5–2016 Mar. 31, mean residual 0″.6.

332P/Ikeya-Murakami
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Mar. 17.43061 TT MPCW

			(2000.0)	P	Q
q	1.5729169				
n	0.18172444	ω	152.44444	−0.91474606	−0.40388592
a	3.0869327	Ω	3.78328	+0.33415717	−0.77125501
e	0.4904596	i	9.38652	+0.22710930	−0.49197751
P	5.42				

From 501 observations 2010 Nov. 3–2016 Mar. 29, mean residual 0″.7.

333P/LINEAR
Epoch 2016 Apr. 2.0 TT = JDT 2457480.5
T 2016 Apr. 3.89028 TT MPCW

			(2000.0)	P	Q
q	1.1151598				
n	0.11349781	ω	26.14442	−0.12205170	+0.73072014
a	4.2248477	Ω	115.56566	+0.72892662	−0.39330769
e	0.7360473	i	131.87707	+0.67362406	+0.55799385
P	8.68				

From 526 observations 2007 Nov. 4–2016 Apr. 25, mean residual 0″.4.

334P/NEAT
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 5.35303 TT MPCW

			(2000.0)	P	Q
q	4.1845926				
n	0.05901029	ω	80.51856	−0.93892335	−0.10988531
a	6.5340767	Ω	92.65276	−0.01670028	−0.93198166
e	0.3595740	i	19.05408	+0.34372089	−0.34544957
P	16.70				

From 149 observations 2001 Feb. 24–2016 Apr. 27, mean residual 0″.6.

335P/Gibbs
Epoch 2015 Oct. 25.0 TT = JDT 2457320.5
T 2015 Nov. 5.95919 TT MPCW

			(2000.0)	P	Q
q	1.6294095				
n	0.14540723	ω	162.33629	−0.68573429	−0.72522651
a	3.5816135	Ω	330.86321	+0.65154550	−0.57380353
e	0.5450627	i	7.28794	+0.32443326	−0.38052071
P	6.78				

From 393 observations 2008 Dec. 1–2016 Apr. 27, mean residual 0″.4.

336P/McNaught
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5
T 2017 Feb. 3.05537 TT MPCW

			(2000.0)	P	Q
q	2.7815513				
n	0.08755397	ω	308.49076	−0.36161649	+0.89242437
a	5.0228724	Ω	298.25798	−0.73124086	−0.45103016
e	0.4462230	i	17.83918	−0.57837731	+0.01226935
P	11.26				

From 136 observations 2006 Apr. 5–2016 Apr. 12, mean residual 0″.5.

Jupiter VI (Himalia)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	103.98952		(2000.0)	**P**	**Q**
n	1.43066649	ω	14.39275	+0.52103536	−0.77686042
a	0.0768092	Ω	45.75047	+0.72616616	+0.18576753
e	0.1246562	i	29.57730	+0.44855864	+0.60164633
P	251.63 d	H	7.9	G 0.15	

From 1666 observations 1905 Jan. 4–2016 May 3, mean residual 0″.37.

Jupiter VII (Elara)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	55.50335		(2000.0)	**P**	**Q**
n	1.38348856	ω	195.23284	+0.29846783	+0.81998602
a	0.0785456	Ω	94.15969	−0.81649018	+0.48435888
e	0.1684726	i	29.32056	−0.49422741	−0.30499082
P	260.21 d	H	9.6	G 0.15	

From 1280 observations 1905 Jan. 29–2016 May 3, mean residual 0″.38.

Jupiter VIII (Pasiphae)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	312.36733		(2000.0)	**P**	**Q**
n	0.49263639	ω	252.81554	−0.55928132	+0.81556851
a	0.1563464	Ω	19.19598	+0.82105795	+0.56968064
e	0.4881443	i	153.15083	−0.11431641	+0.10154788
P	730.76 d	H	10.0	G 0.15	

From 2079 observations 1908 Jan. 28–2016 May 3, mean residual 0″.41.

Jupiter IX (Sinope)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	128.69726		(2000.0)	**P**	**Q**
n	0.46621511	ω	73.27603	+0.39298385	−0.91856493
a	0.1621990	Ω	6.88098	−0.91910014	−0.39093831
e	0.2770081	i	159.24737	−0.02861161	−0.05835837
P	772.18 d	H	11.1	G 0.15	

From 1062 observations 1914 July 24–2016 Apr. 14, mean residual 0″.43.

Jupiter XI (Carme)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	323.47835		(2000.0)	**P**	**Q**
n	0.49163279	ω	104.08150	+0.02623923	+0.99824473
a	0.1565591	Ω	192.93308	+0.80101276	+0.01078027
e	0.2999492	i	166.27724	+0.59807195	−0.05823431
P	732.25 d	H	10.6	G 0.15	

From 1223 observations 1938 July 31–2016 May 3, mean residual 0″.44.

Jupiter XII (Ananke)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	129.96775		(2000.0)	**P**	**Q**
n	0.56720105	ω	140.21004	+0.37991474	−0.75955554
a	0.1423249	Ω	78.80366	−0.92467052	−0.29611666
e	0.2349689	i	147.43869	−0.02547965	−0.57912892
P	634.70 d	H	11.7	G 0.15	

From 736 observations 1951 Sept. 29–2016 Apr. 28, mean residual 0″.41.

Saturn IX (Phoebe)

Epoch 2016 July 31.0 TT = JDT 2457600.5				MPC	
M	52.23445		(2000.0)	**P**	**Q**
n	0.65754460	ω	6.31232	−0.13833369	−0.98311245
a	0.0862813	Ω	268.31505	−0.91382265	+0.08006426
e	0.1512486	i	173.11605	−0.38182713	+0.16455886
P	547.49 d	H	6.6	G 0.15	

From 2058 observations 1898 Aug. 19–2016 May 3, mean residual 0″.44.

SUMMARY OF NEW NUMBERINGS

The following summary of new numberings of minor planets lists for each object the number, principal provisional designation, date of discovery, observatory code of the discovery site and the names of the discoverers. A separate table lists orbital elements and absolute magnitudes (the slope parameter G being 0.15 in every case). Further details, including additional identifications and residuals, are given in the *Minor Planet Circulars Orbit Supplement*.

(467309)	1996 AW_1	1996 01 14	691	Spacewatch
(467310)	1996 RX_{17}	1996 09 14	691	Spacewatch
(467311)	1998 TR_{36}	1998 10 13	691	Spacewatch
(467312)	1998 WF_{38}	1998 11 15	691	Spacewatch
(467313)	1999 AS_{34}	1999 01 15	691	Spacewatch
(467314)	1999 CY_{129}	1999 02 06	568	Veillet, C.
(467315)	1999 TZ_{244}	1999 10 07	703	CSS
(467316)	1999 UX_{21}	1999 10 31	691	Spacewatch
(467317)	2000 QW_7	2000 08 26	608	NEAT
(467318)	2000 SC_{29}	2000 09 24	704	LINEAR
(467319)	2000 UZ_{112}	2000 10 30	704	LINEAR
(467320)	2001 HV_{38}	2001 04 26	691	Spacewatch
(467321)	2001 PW_7	2001 08 10	644	NEAT
(467322)	2001 PZ_{16}	2001 08 09	644	NEAT
(467323)	2001 RW_{153}	2001 09 10	644	LONEOS
(467324)	2001 SO_{306}	2001 09 20	704	LINEAR
(467325)	2001 TQ_{252}	2001 10 14	645	Sloan Digital Sky Survey
(467326)	2001 UQ_{58}	2001 10 17	704	LINEAR
(467327)	2001 UP_{81}	2001 10 20	704	LINEAR
(467328)	2001 US_{106}	2001 10 20	704	LINEAR
(467329)	2001 UT_{111}	2001 09 20	704	LINEAR
(467330)	2001 UR_{177}	2001 10 21	704	LINEAR
(467331)	2001 XR_{134}	2001 11 21	704	LINEAR
(467332)	2001 YG_{81}	2001 12 18	704	LINEAR
(467333)	2002 CR_{280}	2002 01 22	695	Spacewatch
(467334)	2002 EY_{46}	2002 02 08	644	LINEAR
(467335)	2002 JA_9	2002 05 05	644	NEAT
(467336)	2002 LT_{38}	2002 06 12	704	LINEAR
(467337)	2002 PJ_{76}	2002 08 09	608	NEAT
(467338)	2002 PF_{193}	2002 08 08	644	NEAT
(467339)	2002 QZ_{107}	2002 08 17	644	NEAT
(467340)	2002 SX_{26}	2002 09 29	608	NEAT
(467341)	2002 TN_{34}	2002 10 02	704	LINEAR
(467342)	2002 TK_{348}	2002 10 05	645	Sloan Digital Sky Survey

(467343)	2002 TT_{364}	2002 10 10	645	Sloan Digital Sky Survey
(467344)	2002 US_{43}	2002 10 30	291	Spacewatch
(467345)	2002 WD_{27}	2002 11 16	644	NEAT
(467346)	2003 CB_{5}	2003 01 10	704	LINEAR
(467347)	2003 GR	2003 04 03	699	LONEOS
(467348)	2003 GY_{43}	2003 04 09	704	LINEAR
(467349)	2003 HR_{52}	2003 04 11	699	Spacewatch
(467350)	2003 JD_{4}	2003 05 01	246	Spacewatch
(467351)	2003 KO_{2}	2003 05 22	704	LINEAR
(467352)	2003 KZ_{18}	2003 05 31	704	LINEAR
(467353)	2003 NN_{7}	2003 06 28	599	LINEAR
(467354)	2003 NB_{13}	2003 07 07	691	Spacewatch
(467355)	2003 OF_{16}	2003 07 24	097	Wise
(467356)	2003 QJ_{9}	2003 08 20	599	CINEOS
(467357)	2003 QE_{115}	2003 08 26	704	LINEAR
(467358)	2003 ST_{128}	2003 09 20	691	Spacewatch
(467359)	2003 SO_{181}	2003 09 20	291	Spacewatch
(467360)	2003 SJ_{184}	2003 09 21	691	LONEOS
(467361)	2003 SH_{187}	2003 08 31	699	Spacewatch
(467362)	2003 SB_{232}	2003 08 26	608	LINEAR
(467363)	2003 UJ_{23}	2003 10 22	704	LINEAR
(467364)	2003 UZ_{277}	2003 10 25	704	LINEAR
(467365)	2003 WB_{26}	2003 11 20	704	LINEAR
(467366)	2003 WA_{103}	2003 10 29	704	LINEAR
(467367)	2003 YW_{42}	2003 12 19	691	Spacewatch
(467368)	2004 CD_{30}	2004 01 30	691	Spacewatch
(467369)	2004 DT_{63}	2004 02 12	691	Spacewatch
(467370)	2004 EZ_{18}	2004 03 14	704	LINEAR
(467371)	2004 KU_{12}	2004 04 30	703	Spacewatch
(467372)	2004 LG	2004 06 09	704	LINEAR
(467373)	2004 QX_{24}	2004 08 24	E12	Siding Spring Survey
(467374)	2004 QH_{28}	2004 08 25	691	Spacewatch
(467375)	2004 RA_{66}	2004 08 26	704	CSS
(467376)	2004 RX_{79}	2004 07 20	704	Siding Spring Survey
(467377)	2004 RQ_{83}	2004 09 09	704	LINEAR
(467378)	2004 RP_{338}	2004 09 15	691	Spacewatch
(467379)	2004 SH	2004 09 16	704	LINEAR
(467380)	2004 TW_{126}	2004 10 07	704	LINEAR
(467381)	2004 TM_{137}	2004 10 08	699	LONEOS
(467382)	2004 TA_{161}	2004 10 06	691	Spacewatch
(467383)	2004 TH_{177}	2004 10 04	291	Spacewatch
(467384)	2004 TO_{184}	2004 10 07	691	Spacewatch
(467385)	2004 TQ_{296}	2004 10 10	691	Spacewatch
(467386)	2004 TY_{343}	2004 10 14	691	Spacewatch
(467387)	2004 VK_{37}	2004 11 04	691	Spacewatch
(467388)	2004 XC_{11}	2004 12 03	691	Spacewatch
(467389)	2004 XX_{74}	2004 11 04	703	CSS
(467390)	2004 XP_{131}	2004 12 11	704	LINEAR
(467391)	2005 AE_{58}	2004 12 14	704	CINEOS
(467392)	2005 CL_{30}	2005 02 01	691	Spacewatch
(467393)	2005 CA_{41}	2005 01 15	809	Spacewatch
(467394)	2005 EH_{89}	2005 03 08	691	Spacewatch
(467395)	2005 EQ_{138}	2005 03 09	704	LINEAR
(467396)	2005 GJ_{19}	2005 03 17	G96	Spacewatch
(467397)	2005 GD_{52}	2005 04 02	G96	Mt. Lemmon Survey
(467398)	2005 GH_{66}	2005 04 02	703	CSS
(467399)	2005 GR_{72}	2005 04 04	G96	Mt. Lemmon Survey
(467400)	2005 GW_{124}	2005 03 17	691	Spacewatch
(467401)	2005 GH_{133}	2005 03 14	691	Mt. Lemmon Survey
(467402)	2005 GE_{205}	2005 04 11	695	Buie, M. W.
(467403)	2005 GZ_{222}	2005 03 14	691	Mt. Lemmon Survey
(467404)	2005 JY_{26}	2005 05 03	691	Spacewatch
(467405)	2005 JD_{34}	2005 05 04	691	Spacewatch
(467406)	2005 JC_{109}	2005 05 09	699	LONEOS
(467407)	2005 JZ_{150}	2005 05 03	691	Spacewatch
(467408)	2005 JW_{165}	2005 05 11	691	Spacewatch
(467409)	2005 JW_{167}	2005 05 13	691	Spacewatch
(467410)	2005 KE_{11}	2005 05 30	703	CSS
(467411)	2005 LB_{20}	2005 06 11	H06	Lowe, A.
(467412)	2005 MJ_{30}	2005 06 29	691	Spacewatch
(467413)	2005 NX_{15}	2005 07 02	691	Spacewatch
(467414)	2005 NL_{34}	2005 07 05	691	Spacewatch
(467415)	2005 SG_{120}	2005 09 29	291	Spacewatch
(467416)	2005 SQ_{174}	2005 09 29	691	Spacewatch
(467417)	2005 TG_{6}	2005 10 01	703	CSS
(467418)	2005 UY_{118}	2005 10 24	691	Spacewatch
(467419)	2005 UQ_{121}	2005 10 24	691	Spacewatch
(467420)	2005 UC_{166}	2005 10 24	691	Spacewatch
(467421)	2005 UE_{176}	2005 10 24	691	Spacewatch
(467422)	2005 UL_{189}	2005 10 27	G96	Mt. Lemmon Survey
(467423)	2005 UN_{200}	2005 10 25	691	Spacewatch
(467424)	2005 UV_{285}	2005 10 26	691	Spacewatch
(467425)	2005 VN_{61}	2005 11 05	703	CSS
(467426)	2005 VA_{85}	2005 10 28	691	Mt. Lemmon Survey
(467427)	2005 VG_{91}	2002 01 18	691	ADAS
(467428)	2005 XG_{40}	2005 12 05	G96	Mt. Lemmon Survey
(467429)	2005 XT_{58}	2005 12 02	G96	Mt. Lemmon Survey
(467430)	2005 XT_{74}	2005 12 06	691	Spacewatch
(467431)	2005 YO_{50}	2005 12 25	691	Spacewatch
(467432)	2005 YL_{129}	2005 11 28	691	Mt. Lemmon Survey
(467433)	2005 YP_{130}	2005 12 25	691	Spacewatch
(467434)	2005 YD_{135}	2005 12 26	691	Spacewatch
(467435)	2005 YM_{166}	2005 12 27	691	Spacewatch
(467436)	2005 YJ_{187}	2005 12 28	691	Spacewatch
(467437)	2005 YA_{197}	2005 11 30	691	Mt. Lemmon Survey
(467438)	2005 YQ_{287}	2005 12 28	703	CSS
(467439)	2006 AV_{17}	2006 01 05	691	Spacewatch
(467440)	2006 AV_{51}	2006 01 05	691	Spacewatch
(467441)	2006 AV_{54}	2006 01 05	691	Spacewatch
(467442)	2006 AB_{62}	2005 12 28	691	Spacewatch
(467443)	2006 AE_{72}	2006 01 06	G96	Mt. Lemmon Survey
(467444)	2006 BM_{6}	2006 01 07	699	LONEOS
(467445)	2006 BQ_{36}	2006 01 23	691	Spacewatch
(467446)	2006 BT_{70}	2006 01 23	691	Spacewatch

(467447)	2006 BB_{78}	2006 01 23	G96	Mt. Lemmon Survey
(467448)	2006 BF_{127}	2006 01 26	691	Spacewatch
(467449)	2006 BD_{130}	2006 01 26	691	Spacewatch
(467450)	2006 BD_{202}	2006 01 31	691	Spacewatch
(467451)	2006 CK_{14}	2006 02 01	691	Spacewatch
(467452)	2006 DK_{92}	2006 02 24	691	Spacewatch
(467453)	2006 DY_{113}	2006 02 27	691	Spacewatch
(467454)	2006 DW_{216}	2006 02 20	691	Spacewatch
(467455)	2006 FC_{41}	2006 03 26	G96	Mt. Lemmon Survey
(467456)	2006 HC_{21}	2006 04 20	691	Spacewatch
(467457)	2006 HX_{83}	2006 04 26	691	Spacewatch
(467458)	2006 HB_{103}	2006 04 30	691	Spacewatch
(467459)	2006 JQ_{21}	2006 05 02	691	Spacewatch
(467460)	2006 JF_{42}	2006 05 11	703	CSS
(467461)	2006 KB_{11}	2006 05 19	G96	Mt. Lemmon Survey
(467462)	2006 KK_{13}	2006 05 20	691	Spacewatch
(467463)	2006 KB_{54}	2006 05 21	691	Spacewatch
(467464)	2006 KF_{60}	2006 05 22	691	Spacewatch
(467465)	2006 KR_{76}	2006 05 06	644	Mt. Lemmon Survey
(467466)	2006 KC_{92}	2006 05 04	691	Spacewatch
(467467)	2006 KG_{94}	2006 05 07	691	Mt. Lemmon Survey
(467468)	2006 PM_{16}	2006 08 15	644	NEAT
(467469)	2006 PP_{28}	2006 07 28	E12	Siding Spring Survey
(467470)	2006 QQ_{12}	2006 08 16	E12	Siding Spring Survey
(467471)	2006 QN_{113}	2006 08 24	644	NEAT
(467472)	2006 QQ_{117}	2006 08 27	699	LONEOS
(467473)	2006 QY_{185}	2006 08 27	691	Spacewatch
(467474)	2006 RK_{5}	2006 08 29	703	LONEOS
(467475)	2006 RG_{7}	2006 09 15	704	LINEAR
(467476)	2006 RK_{30}	2006 09 15	691	Spacewatch
(467477)	2006 SJ_{28}	2006 08 19	691	Spacewatch
(467478)	2006 SU_{124}	2006 08 21	699	Spacewatch
(467479)	2006 SS_{135}	2006 09 20	703	CSS
(467480)	2006 SJ_{150}	2006 09 19	691	Spacewatch
(467481)	2006 SD_{151}	2006 09 19	691	Spacewatch
(467482)	2006 SB_{186}	2006 09 25	G96	Mt. Lemmon Survey
(467483)	2006 SE_{321}	2006 09 27	691	Spacewatch
(467484)	2006 SJ_{321}	2006 09 17	691	Spacewatch
(467485)	2006 SL_{325}	2006 09 27	691	Spacewatch
(467486)	2006 SS_{356}	2006 09 30	703	CSS
(467487)	2006 SS_{366}	2006 09 16	703	CSS
(467488)	2006 TR_{48}	2006 10 12	691	Spacewatch
(467489)	2006 TG_{86}	2006 10 13	691	Spacewatch
(467490)	2006 TY_{97}	2006 10 13	691	Spacewatch
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(467492)	2006 UR_{64}	2006 09 18	850	Spacewatch
(467493)	2006 UV_{82}	2006 10 02	691	Mt. Lemmon Survey
(467494)	2006 UF_{97}	2006 10 02	691	Mt. Lemmon Survey
(467495)	2006 UZ_{156}	2006 09 18	G96	Spacewatch
(467496)	2006 VM_{63}	2006 09 27	691	Mt. Lemmon Survey
(467497)	2006 VW_{122}	2006 10 20	691	Mt. Lemmon Survey
(467498)	2006 WM_{103}	2006 11 19	691	Spacewatch
(467499)	2006 WR_{167}	2006 10 21	691	Mt. Lemmon Survey
(467500)	2006 WU_{199}	2006 11 16	G96	Mt. Lemmon Survey
(467501)	2006 XH_{34}	2006 12 11	691	Spacewatch
(467502)	2007 BS_{15}	2007 01 17	691	Spacewatch
(467503)	2007 BO_{38}	2007 01 24	703	CSS
(467504)	2007 BK_{43}	2007 01 24	G96	Mt. Lemmon Survey
(467505)	2007 BM_{100}	2007 01 17	691	Spacewatch
(467506)	2007 CD_{4}	2007 01 28	291	Spacewatch
(467507)	2007 CT_{28}	2006 11 15	G96	Mt. Lemmon Survey
(467508)	2007 CK_{49}	2007 02 10	G96	Mt. Lemmon Survey
(467509)	2007 CW_{50}	2007 02 13	106	Črni Vrh
(467510)	2007 DZ_{14}	2007 02 17	691	Spacewatch
(467511)	2007 DP_{51}	2007 02 17	691	Spacewatch
(467512)	2007 EN_{66}	2007 03 10	691	Spacewatch
(467513)	2007 ES_{150}	2004 08 07	G96	CINEOS
(467514)	2007 ET_{153}	2007 03 12	G96	Mt. Lemmon Survey
(467515)	2007 EE_{159}	2007 03 14	691	Spacewatch
(467516)	2007 EM_{217}	2007 03 11	G96	Mt. Lemmon Survey
(467517)	2007 FQ_{12}	2007 03 13	699	CSS
(467518)	2007 GC_{2}	2007 04 10	A44	Ries, W.
(467519)	2007 GK_{3}	2007 03 14	G96	Spacewatch
(467520)	2007 GA_{10}	2007 03 12	691	CSS
(467521)	2007 GV_{17}	2007 04 11	691	Spacewatch
(467522)	2007 GL_{32}	2007 03 16	691	Mt. Lemmon Survey
(467523)	2007 GT_{61}	2007 03 11	703	Spacewatch
(467524)	2007 HY_{83}	2007 04 25	291	Spacewatch
(467525)	2007 HL_{97}	2007 03 11	703	Mt. Lemmon Survey
(467526)	2007 KB_{3}	2007 05 19	703	CSS
(467527)	2007 LA_{15}	2007 06 13	703	CSS
(467528)	2007 MN_{27}	2007 06 17	291	Spacewatch
(467529)	2007 PU_{30}	2007 08 15	106	Črni Vrh
(467530)	2007 RZ_{9}	2007 09 02	G96	Mt. Lemmon Survey
(467531)	2007 RX_{45}	2007 09 09	691	Spacewatch
(467532)	2007 RX_{83}	2007 09 10	691	Spacewatch
(467533)	2007 RH_{117}	2007 09 11	691	Spacewatch
(467534)	2007 RN_{163}	2007 09 10	691	Spacewatch
(467535)	2007 RY_{209}	2007 09 10	691	Spacewatch
(467536)	2007 RR_{213}	2007 09 12	G96	Mt. Lemmon Survey
(467537)	2007 RM_{296}	2007 09 15	G96	Mt. Lemmon Survey
(467538)	2007 RX_{298}	2007 09 09	703	LONEOS
(467539)	2007 RS_{308}	2007 09 14	G96	Mt. Lemmon Survey
(467540)	2007 RG_{318}	2007 09 11	703	CSS
(467541)	2007 TF_{1}	2007 09 13	701	Mt. Lemmon Survey
(467542)	2007 TC_{25}	2007 10 08	G98	Calvin College
(467543)	2007 TK_{31}	2007 10 04	691	Spacewatch
(467544)	2007 TU_{32}	2007 10 06	691	Spacewatch
(467545)	2007 TD_{41}	2007 10 06	691	Spacewatch
(467546)	2007 TJ_{51}	2007 10 04	691	Spacewatch
(467547)	2007 TZ_{51}	2007 10 04	691	Spacewatch
(467548)	2007 TE_{81}	2007 10 07	G96	Mt. Lemmon Survey
(467549)	2007 TV_{88}	2007 10 08	G96	Mt. Lemmon Survey
(467550)	2007 TY_{92}	2007 09 08	691	Mt. Lemmon Survey

(467551)	2007 TJ_{98}	2007 10 08	G96	Mt. Lemmon Survey
(467552)	2007 TE_{104}	2007 10 08	G96	Mt. Lemmon Survey
(467553)	2007 TF_{109}	2007 09 18	703	CSS
(467554)	2007 TP_{119}	2007 10 09	G96	Mt. Lemmon Survey
(467555)	2007 TQ_{129}	2007 09 10	691	Mt. Lemmon Survey
(467556)	2007 TG_{158}	2007 10 09	704	LINEAR
(467557)	2007 TJ_{168}	2007 10 08	704	CSS
(467558)	2007 TN_{191}	2007 10 04	691	Spacewatch
(467559)	2007 TL_{194}	2007 10 07	G96	Mt. Lemmon Survey
(467560)	2007 TO_{196}	2007 10 07	G96	Mt. Lemmon Survey
(467561)	2007 TV_{215}	2007 10 07	691	Spacewatch
(467562)	2007 TG_{216}	2007 09 10	691	Mt. Lemmon Survey
(467563)	2007 TT_{216}	2007 10 07	691	Spacewatch
(467564)	2007 TS_{230}	2007 10 08	691	Spacewatch
(467565)	2007 TL_{243}	2007 09 12	703	CSS
(467566)	2007 TS_{268}	2007 10 09	691	Spacewatch
(467567)	2007 TV_{286}	2007 10 10	G96	Mt. Lemmon Survey
(467568)	2007 TF_{292}	2007 09 14	703	Mt. Lemmon Survey
(467569)	2007 TN_{305}	2007 10 13	G96	Mt. Lemmon Survey
(467570)	2007 TU_{332}	2007 10 11	691	Spacewatch
(467571)	2007 TD_{354}	2007 10 10	703	CSS
(467572)	2007 TL_{386}	2007 10 06	703	Spacewatch
(467573)	2007 TQ_{431}	2007 10 15	G96	Mt. Lemmon Survey
(467574)	2007 TU_{432}	2007 10 07	G96	Mt. Lemmon Survey
(467575)	2007 TE_{435}	2007 10 10	691	Spacewatch
(467576)	2007 TY_{447}	2007 10 14	G96	Mt. Lemmon Survey
(467577)	2007 UN_{2}	2002 10 03	A55	CINEOS
(467578)	2007 UV_{2}	2007 10 09	H07	Spacewatch
(467579)	2007 US_{15}	2007 10 18	G96	Mt. Lemmon Survey
(467580)	2007 UB_{33}	2007 10 16	703	CSS
(467581)	2007 UN_{50}	2007 10 24	G96	Mt. Lemmon Survey
(467582)	2007 UK_{74}	2007 10 31	G96	Mt. Lemmon Survey
(467583)	2007 UW_{86}	2007 10 30	691	Spacewatch
(467584)	2007 UC_{88}	2007 10 14	691	Mt. Lemmon Survey
(467585)	2007 UO_{101}	2007 10 30	691	Spacewatch
(467586)	2007 UH_{110}	2007 10 30	G96	Mt. Lemmon Survey
(467587)	2007 UW_{131}	2007 10 18	691	Spacewatch
(467588)	2007 UD_{141}	2007 10 21	G96	Mt. Lemmon Survey
(467589)	2007 UT_{141}	2007 10 20	G96	Mt. Lemmon Survey
(467590)	2007 VG_{5}	2007 10 08	A77	CSS
(467591)	2007 VA_{33}	2007 10 16	691	Mt. Lemmon Survey
(467592)	2007 VX_{122}	2007 10 19	G96	Mt. Lemmon Survey
(467593)	2007 VK_{131}	2007 10 04	G96	Spacewatch
(467594)	2007 VA_{136}	2007 11 04	G96	Mt. Lemmon Survey
(467595)	2007 VW_{154}	2007 11 05	691	Spacewatch
(467596)	2007 VH_{214}	2007 10 20	691	Mt. Lemmon Survey
(467597)	2007 VA_{218}	2007 09 15	691	Mt. Lemmon Survey
(467598)	2007 VW_{235}	2007 11 11	G96	Mt. Lemmon Survey
(467599)	2007 VD_{251}	2007 11 09	703	CSS
(467600)	2007 VA_{253}	2007 11 05	G96	PMO NEO Survey Program
(467601)	2007 VE_{257}	2007 11 07	G96	Spacewatch
(467602)	2007 VF_{273}	2007 11 12	703	CSS
(467603)	2007 VD_{284}	2007 10 15	691	Mt. Lemmon Survey
(467604)	2007 VG_{294}	2007 11 01	691	Spacewatch
(467605)	2007 VU_{298}	2007 11 11	703	CSS
(467606)	2007 VK_{299}	2007 11 02	703	Spacewatch
(467607)	2007 VC_{315}	2007 11 03	G96	Mt. Lemmon Survey
(467608)	2007 WT_{36}	2007 10 20	G96	Mt. Lemmon Survey
(467609)	2008 AV_{28}	2008 01 11	691	Spacewatch
(467610)	2008 AU_{73}	2008 01 10	G96	Mt. Lemmon Survey
(467611)	2008 AK_{87}	2008 01 12	691	Spacewatch
(467612)	2008 AA_{114}	2008 01 10	691	Spacewatch
(467613)	2008 AU_{116}	2008 01 12	691	Spacewatch
(467614)	2008 CS_{16}	2008 02 03	691	Spacewatch
(467615)	2008 CZ_{51}	2007 12 20	691	Spacewatch
(467616)	2008 CJ_{142}	2008 02 08	691	Spacewatch
(467617)	2008 CU_{162}	2008 01 30	691	Mt. Lemmon Survey
(467618)	2008 CG_{209}	2008 01 15	704	Spacewatch
(467619)	2008 CH_{211}	2008 01 01	G96	Spacewatch
(467620)	2008 DL_{16}	2008 02 18	291	Mt. Lemmon Survey
(467621)	2008 DZ_{31}	2008 01 11	691	Mt. Lemmon Survey
(467622)	2008 EX_{39}	2008 03 04	691	Spacewatch
(467623)	2008 FW_{8}	2008 03 26	691	Spacewatch
(467624)	2008 GX_{42}	2008 03 01	G96	Spacewatch
(467625)	2008 GR_{102}	2008 03 29	691	Spacewatch
(467626)	2008 GR_{136}	2008 04 05	691	Spacewatch
(467627)	2008 HV_{19}	2008 04 26	691	Spacewatch
(467628)	2008 KK_{42}	2008 05 31	G96	Mt. Lemmon Survey
(467629)	2008 LA_{4}	2006 11 17	291	Spacewatch
(467630)	2008 LV_{4}	2008 06 03	G96	Mt. Lemmon Survey
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(467632)	2008 QB_{28}	2008 08 30	J75	OAM
(467633)	2008 QQ_{34}	2008 08 26	E12	Siding Spring Survey
(467634)	2008 RD_{30}	2008 09 02	691	Spacewatch
(467635)	2008 RV_{54}	2008 09 03	691	Spacewatch
(467636)	2008 RZ_{71}	2008 08 20	703	Spacewatch
(467637)	2008 RE_{111}	2008 09 04	691	Spacewatch
(467638)	2008 RJ_{115}	2008 09 07	G96	Mt. Lemmon Survey
(467639)	2008 RN_{125}	2008 09 07	G96	Mt. Lemmon Survey
(467640)	2008 RQ_{128}	2008 09 09	691	Spacewatch
(467641)	2008 SY_{12}	2008 09 04	G96	Spacewatch
(467642)	2008 SX_{16}	2008 09 04	291	Spacewatch
(467643)	2008 SN_{50}	2008 09 20	G96	Mt. Lemmon Survey
(467644)	2008 SQ_{90}	2008 09 21	691	Spacewatch
(467645)	2008 SP_{186}	2008 09 25	691	Spacewatch
(467646)	2008 SY_{186}	2008 09 25	691	Spacewatch
(467647)	2008 SM_{192}	2008 09 25	691	Spacewatch
(467648)	2008 SC_{211}	2008 09 07	703	LINEAR
(467649)	2008 SN_{211}	2008 09 06	703	Siding Spring Survey
(467650)	2008 ST_{265}	2008 09 29	703	CSS
(467651)	2008 SF_{289}	2008 09 25	691	Spacewatch
(467652)	2008 SK_{295}	2008 09 24	703	CSS
(467653)	2008 TS_{82}	2008 07 29	691	Spacewatch
(467654)	2008 TB_{100}	2008 10 06	691	Spacewatch

(467655)	2008 TR_{116}	2008 10 01	703	Mt. Lemmon Survey
(467656)	2008 TB_{139}	2008 10 08	G96	Mt. Lemmon Survey
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(467658)	2008 TE_{151}	2008 09 04	G96	Spacewatch
(467659)	2008 TD_{163}	2008 10 01	703	CSS
(467660)	2008 TQ_{166}	2006 04 02	691	Spacewatch
(467661)	2008 TZ_{167}	2008 10 01	691	Spacewatch
(467662)	2008 TW_{169}	2008 10 08	691	Spacewatch
(467663)	2008 UH_{62}	2008 09 09	691	Mt. Lemmon Survey
(467664)	2008 UK_{67}	2008 10 21	691	Spacewatch
(467665)	2008 UC_{90}	2008 10 27	704	LINEAR
(467666)	2008 UZ_{95}	2008 09 29	704	CSS
(467667)	2008 UY_{98}	2008 09 23	704	Spacewatch
(467668)	2008 UQ_{106}	2008 09 03	691	Spacewatch
(467669)	2008 UH_{116}	2008 10 22	691	Spacewatch
(467670)	2008 UJ_{120}	2008 10 22	691	Spacewatch
(467671)	2008 UV_{121}	2008 10 22	691	Spacewatch
(467672)	2008 UH_{128}	2008 10 22	691	Spacewatch
(467673)	2008 UV_{160}	2008 10 23	621	Bickel, W.
(467674)	2008 UW_{172}	2008 10 24	691	Spacewatch
(467675)	2008 UG_{188}	2008 10 01	691	Mt. Lemmon Survey
(467676)	2008 UD_{192}	2008 09 23	703	Mt. Lemmon Survey
(467677)	2008 UZ_{206}	2008 09 23	691	Spacewatch
(467678)	2008 UR_{220}	2008 10 25	691	Spacewatch
(467679)	2008 US_{234}	2008 10 26	G96	Mt. Lemmon Survey
(467680)	2008 UA_{240}	2008 10 26	691	Spacewatch
(467681)	2008 UF_{240}	2008 10 26	691	Spacewatch
(467682)	2008 UB_{275}	2008 10 28	691	Spacewatch
(467683)	2008 UJ_{279}	2008 10 28	G96	Mt. Lemmon Survey
(467684)	2008 UH_{290}	2008 10 28	691	Spacewatch
(467685)	2008 UG_{306}	2008 10 30	691	Spacewatch
(467686)	2008 UO_{311}	2008 10 30	691	Spacewatch
(467687)	2008 UO_{345}	2008 10 31	691	Spacewatch
(467688)	2008 UX_{356}	2008 10 23	691	Spacewatch
(467689)	2008 UU_{357}	2008 10 24	691	Spacewatch
(467690)	2008 VV_{27}	2008 10 25	691	Spacewatch
(467691)	2008 VA_{33}	2008 10 06	G96	Mt. Lemmon Survey
(467692)	2008 VK_{42}	2008 10 06	G96	Mt. Lemmon Survey
(467693)	2008 VW_{67}	2008 11 01	G96	Mt. Lemmon Survey
(467694)	2008 VS_{74}	2008 11 01	G96	Mt. Lemmon Survey
(467695)	2008 WT_{37}	2008 10 20	691	Spacewatch
(467696)	2008 WH_{41}	2008 11 17	691	Spacewatch
(467697)	2008 WW_{46}	2008 11 06	691	Mt. Lemmon Survey
(467698)	2008 WR_{53}	2008 10 28	691	Spacewatch
(467699)	2008 WL_{78}	2008 11 01	691	Spacewatch
(467700)	2008 WR_{93}	2003 11 20	G96	LINEAR
(467701)	2008 WY_{125}	2008 11 08	G96	Mt. Lemmon Survey
(467702)	2008 WS_{129}	2008 11 17	691	Spacewatch
(467703)	2008 XE_{24}	2008 11 08	G96	Spacewatch
(467704)	2008 XP_{48}	2008 12 04	G96	Mt. Lemmon Survey
(467705)	2008 YQ_{48}	2008 12 22	G96	Spacewatch
(467706)	2008 YH_{54}	2008 12 29	G96	Mt. Lemmon Survey
(467707)	2008 YY_{100}	2006 01 26	691	Mt. Lemmon Survey
(467708)	2008 YV_{111}	2006 05 07	691	Mt. Lemmon Survey
(467709)	2008 YQ_{115}	2008 11 02	691	Mt. Lemmon Survey
(467710)	2009 AG_{1}	2008 12 05	595	Spacewatch
(467711)	2009 AH_{13}	2009 01 02	G96	Mt. Lemmon Survey
(467712)	2009 AT_{30}	2008 12 21	691	Mt. Lemmon Survey
(467713)	2009 BJ_{21}	2009 01 16	G96	Mt. Lemmon Survey
(467714)	2009 BZ_{27}	2009 01 16	691	Spacewatch
(467715)	2009 BJ_{34}	2008 12 29	691	Mt. Lemmon Survey
(467716)	2009 BA_{69}	2009 01 25	691	Spacewatch
(467717)	2009 BM_{70}	2009 01 25	703	CSS
(467718)	2009 BD_{167}	2009 01 31	691	Spacewatch
(467719)	2009 CW_{48}	2008 12 30	G96	Mt. Lemmon Survey
(467720)	2009 DW_{11}	2009 02 17	704	LINEAR
(467721)	2009 DJ_{17}	2009 02 03	691	Spacewatch
(467722)	2009 DR_{117}	2009 02 13	691	Spacewatch
(467723)	2009 FN_{8}	2009 02 28	691	Spacewatch
(467724)	2009 FA_{63}	2009 03 26	691	Spacewatch
(467725)	2009 FY_{73}	2009 03 29	691	Spacewatch
(467726)	2009 HM_{23}	2009 04 17	G96	Mt. Lemmon Survey
(467727)	2009 HZ_{65}	2009 04 23	691	Spacewatch
(467728)	2009 HF_{99}	2009 04 22	G96	Mt. Lemmon Survey
(467729)	2009 HP_{105}	2009 04 27	691	Spacewatch
(467730)	2009 JY_{17}	2009 05 04	E12	Siding Spring Survey
(467731)	2009 MA_{5}	2009 06 17	691	Spacewatch
(467732)	2009 OK_{13}	2009 07 27	691	Spacewatch
(467733)	2009 PH_{11}	2009 08 15	691	Spacewatch
(467734)	2009 PQ_{13}	2009 06 27	691	Mt. Lemmon Survey
(467735)	2009 PV_{19}	2009 08 15	691	Spacewatch
(467736)	2009 RQ	2009 08 18	152	Spacewatch
(467737)	2009 RS_{14}	2009 09 12	691	Spacewatch
(467738)	2009 RS_{15}	2009 09 12	691	Spacewatch
(467739)	2009 RJ_{17}	2009 09 12	691	Spacewatch
(467740)	2009 RH_{24}	2005 09 13	291	Spacewatch
(467741)	2009 ST_{21}	2009 09 18	621	CSS
(467742)	2009 SS_{28}	2009 09 16	691	Spacewatch
(467743)	2009 SB_{57}	2009 09 17	691	Spacewatch
(467744)	2009 SS_{64}	2009 09 17	G96	Mt. Lemmon Survey
(467745)	2009 SM_{94}	2009 09 19	G96	Mt. Lemmon Survey
(467746)	2009 SB_{143}	2009 09 19	691	Spacewatch
(467747)	2009 SK_{156}	2009 09 20	691	Spacewatch
(467748)	2009 SK_{186}	2009 09 17	691	Spacewatch
(467749)	2009 SC_{189}	2009 09 21	J75	OAM
(467750)	2009 SL_{199}	2009 09 22	691	Spacewatch
(467751)	2009 SX_{296}	2009 09 28	291	Spacewatch
(467752)	2009 SP_{340}	2009 09 20	691	Spacewatch
(467753)	2009 SU_{344}	2009 09 18	691	Spacewatch
(467754)	2009 TL_{14}	2009 09 20	G96	CSS
(467755)	2009 US_{18}	2009 10 23	H10	Shurpakov, S.
(467756)	2009 UA_{64}	2009 10 17	G96	Mt. Lemmon Survey
(467757)	2009 UJ_{68}	2009 10 01	G96	Mt. Lemmon Survey
(467758)	2009 UH_{99}	2003 04 11	G96	Spacewatch

(467759)	2009 UJ_{135}	2009 10 25	D29	PMO NEO Survey Program
(467760)	2009 UM_{139}	2009 09 22	703	CSS
(467761)	2009 UL_{146}	2009 10 18	G96	Mt. Lemmon Survey
(467762)	2009 UY_{149}	2009 10 27	691	Spacewatch
(467763)	2009 UV_{150}	2009 10 23	G96	Mt. Lemmon Survey
(467764)	2009 VF_{5}	2009 10 24	691	Spacewatch
(467765)	2009 VU_{6}	2009 11 08	G96	Mt. Lemmon Survey
(467766)	2009 VV_{14}	2009 09 16	G96	Mt. Lemmon Survey
(467767)	2009 VC_{26}	2009 11 06	703	CSS
(467768)	2009 VK_{26}	2009 11 08	691	Spacewatch
(467769)	2009 VR_{40}	2009 10 16	J75	LINEAR
(467770)	2009 VL_{47}	2009 10 23	G96	Mt. Lemmon Survey
(467771)	2009 VS_{65}	2009 09 21	691	Mt. Lemmon Survey
(467772)	2009 VX_{78}	2009 11 10	703	CSS
(467773)	2009 VC_{82}	2007 03 15	691	Mt. Lemmon Survey
(467774)	2009 VL_{103}	2009 11 11	G96	Mt. Lemmon Survey
(467775)	2009 VW_{107}	2009 10 26	G96	Spacewatch
(467776)	2009 VF_{113}	2009 11 10	691	Spacewatch
(467777)	2009 WM_{24}	2009 10 14	B21	Mt. Lemmon Survey
(467778)	2009 WZ_{33}	2005 10 30	691	Mt. Lemmon Survey
(467779)	2009 WT_{48}	2009 11 19	G96	Mt. Lemmon Survey
(467780)	2009 WV_{65}	2009 10 23	G96	Mt. Lemmon Survey
(467781)	2009 WT_{114}	2009 09 21	G96	Mt. Lemmon Survey
(467782)	2009 WC_{135}	2009 11 09	G96	Mt. Lemmon Survey
(467783)	2009 WU_{149}	2009 11 19	G96	Mt. Lemmon Survey
(467784)	2009 WY_{161}	2009 10 26	691	Mt. Lemmon Survey
(467785)	2009 WZ_{187}	2009 11 09	G96	Spacewatch
(467786)	2009 WQ_{193}	2006 01 23	G96	Spacewatch
(467787)	2009 WW_{193}	2009 10 26	691	Mt. Lemmon Survey
(467788)	2009 WY_{200}	2009 11 19	G96	Spacewatch
(467789)	2009 WX_{252}	2009 11 08	G96	Spacewatch
(467790)	2009 WN_{262}	2009 11 20	704	LINEAR
(467791)	2009 WG_{263}	2009 11 16	691	Spacewatch
(467792)	2009 WV_{263}	2009 11 23	G96	Mt. Lemmon Survey
(467793)	2009 XU	2009 11 26	D25	Mt. Lemmon Survey
(467794)	2009 XE_{1}	2009 12 10	H06	Lowe, A.
(467795)	2009 YG_{7}	2009 11 17	691	Spacewatch
(467796)	2009 YX_{16}	2009 11 20	G96	Spacewatch
(467797)	2009 YA_{19}	2003 11 19	291	Spacewatch
(467798)	2010 AW_{4}	2010 01 04	691	Spacewatch
(467799)	2010 AD_{71}	2010 01 06	G96	CSS
(467800)	2010 AF_{74}	2009 12 20	704	Spacewatch
(467801)	2010 AS_{130}	2009 09 30	C51	Mt. Lemmon Survey
(467802)	2010 BS_{35}	2007 10 12	C51	Mt. Lemmon Survey
(467803)	2010 BB_{48}	2010 01 20	C51	WISE
(467804)	2010 BL_{77}	2010 01 24	C51	WISE
(467805)	2010 BS_{127}	2010 01 31	C51	WISE
(467806)	2010 BC_{130}	2009 11 08	C51	Mt. Lemmon Survey
(467807)	2010 CL_{29}	2010 02 09	691	Spacewatch
(467808)	2010 CC_{95}	2010 02 14	691	Spacewatch
(467809)	2010 CW_{98}	2010 02 14	691	Spacewatch
(467810)	2010 CB_{110}	2003 11 18	G96	Spacewatch
(467811)	2010 CC_{116}	2010 02 14	G96	Mt. Lemmon Survey
(467812)	2010 CM_{146}	2010 01 11	G96	Spacewatch
(467813)	2010 EW_{31}	2005 05 04	691	Mt. Lemmon Survey
(467814)	2010 EW_{68}	2010 03 12	G96	Mt. Lemmon Survey
(467815)	2010 EM_{128}	2010 03 12	691	Spacewatch
(467816)	2010 FT_{6}	2007 08 24	A79	Spacewatch
(467817)	2010 FA_{11}	2010 03 16	691	Spacewatch
(467818)	2010 GF_{43}	2009 11 21	C51	Mt. Lemmon Survey
(467819)	2010 JC_{39}	2010 05 06	G96	Mt. Lemmon Survey
(467820)	2010 JV_{48}	2010 05 07	691	Spacewatch
(467821)	2010 JP_{102}	2010 05 11	C51	WISE
(467822)	2010 KZ_{85}	2005 04 10	C51	Mt. Lemmon Survey
(467823)	2010 KP_{128}	2010 05 22	G96	Mt. Lemmon Survey
(467824)	2010 LW_{98}	2010 06 13	C51	WISE
(467825)	2010 NO_{117}	2010 07 10	J75	OAM
(467826)	2010 OF_{81}	2009 04 24	C51	Mt. Lemmon Survey
(467827)	2010 OZ_{101}	2010 07 28	C51	WISE
(467828)	2010 OG_{107}	2010 07 29	C51	WISE
(467829)	2010 PL_{61}	2010 08 10	691	Spacewatch
(467830)	2010 RQ_{14}	2010 09 01	704	LINEAR
(467831)	2010 RF_{40}	2010 09 02	J75	LINEAR
(467832)	2010 RR_{51}	2010 09 04	691	Spacewatch
(467833)	2010 RN_{90}	2010 09 02	G96	Mt. Lemmon Survey
(467834)	2010 RU_{154}	2006 05 02	691	Mt. Lemmon Survey
(467835)	2010 SS_{3}	2010 09 16	G96	Mt. Lemmon Survey
(467836)	2010 SQ_{15}	2000 10 30	691	LINEAR
(467837)	2010 TW_{16}	2010 10 03	691	Spacewatch
(467838)	2010 TG_{23}	2010 10 01	691	Spacewatch
(467839)	2010 TZ_{66}	2003 09 17	691	Spacewatch
(467840)	2010 TD_{79}	2007 12 03	703	Spacewatch
(467841)	2010 TU_{112}	2010 09 29	691	Spacewatch
(467842)	2010 TR_{131}	2003 10 21	703	Spacewatch
(467843)	2010 UR_{15}	2010 07 20	703	WISE
(467844)	2010 UO_{92}	2010 09 30	G96	Mt. Lemmon Survey
(467845)	2010 VR_{14}	2003 10 16	703	LONEOS
(467846)	2010 VF_{28}	2010 09 30	691	Mt. Lemmon Survey
(467847)	2010 VL_{40}	2010 10 11	G96	Mt. Lemmon Survey
(467848)	2010 VM_{78}	2010 11 06	G96	Mt. Lemmon Survey
(467849)	2010 VR_{93}	2010 10 19	G96	Mt. Lemmon Survey
(467850)	2010 VL_{106}	2010 10 28	G96	Mt. Lemmon Survey
(467851)	2010 VT_{106}	2008 02 13	291	Mt. Lemmon Survey
(467852)	2010 VT_{151}	2010 11 06	G96	Mt. Lemmon Survey
(467853)	2010 VM_{176}	2010 11 05	703	Mt. Lemmon Survey
(467854)	2010 VQ_{177}	2010 10 19	G96	Mt. Lemmon Survey
(467855)	2010 WE_{15}	1998 11 27	G96	Spacewatch
(467856)	2010 WE_{31}	2010 11 05	G96	Spacewatch
(467857)	2010 WK_{50}	2006 12 13	691	Mt. Lemmon Survey
(467858)	2010 WM_{61}	2010 11 10	G96	Mt. Lemmon Survey
(467859)	2010 XL_{33}	2010 01 20	G96	WISE
(467860)	2011 AF_{5}	2006 12 21	G96	Spacewatch
(467861)	2011 AK_{6}	2010 10 14	703	Mt. Lemmon Survey
(467862)	2011 AL_{22}	2005 10 01	G96	Spacewatch

(467863)	2011 AK_{28}	2005 08 30	691	CINEOS
(467864)	2011 AA_{32}	2011 01 10	G96	Mt. Lemmon Survey
(467865)	2011 BP_{15}	2007 03 15	G96	Spacewatch
(467866)	2011 BR_{64}	2011 01 24	691	Mt. Lemmon Survey
(467867)	2011 BO_{76}	2008 06 30	F51	Spacewatch
(467868)	2011 BZ_{84}	2010 12 08	G96	Mt. Lemmon Survey
(467869)	2011 BL_{86}	2007 02 23	G96	Spacewatch
(467870)	2011 BN_{93}	2011 01 28	G96	Mt. Lemmon Survey
(467871)	2011 BX_{106}	2011 01 29	G96	Mt. Lemmon Survey
(467872)	2011 BN_{120}	2011 01 11	691	Mt. Lemmon Survey
(467873)	2011 BK_{130}	2005 10 25	G96	Spacewatch
(467874)	2011 CF_{7}	2003 03 25	B67	Spacewatch
(467875)	2011 CC_{26}	2011 01 16	703	Mt. Lemmon Survey
(467876)	2011 CN_{89}	2004 08 25	F51	Spacewatch
(467877)	2011 CE_{103}	2007 03 13	F51	Spacewatch
(467878)	2011 DN_{4}	2006 03 25	703	CSS
(467879)	2011 DV_{8}	2011 01 08	691	Mt. Lemmon Survey
(467880)	2011 DZ_{9}	2011 02 11	691	Mt. Lemmon Survey
(467881)	2011 DQ_{20}	2011 02 08	G96	Mt. Lemmon Survey
(467882)	2011 DQ_{21}	2004 10 08	291	Spacewatch
(467883)	2011 DH_{23}	2006 01 25	691	Spacewatch
(467884)	2011 EQ_{6}	2008 09 04	G96	Spacewatch
(467885)	2011 EM_{37}	2011 03 06	691	Spacewatch
(467886)	2011 EP_{83}	2011 02 23	F51	Spacewatch
(467887)	2011 FS_{23}	2006 04 07	G96	Spacewatch
(467888)	2011 FD_{26}	2011 03 29	461	PMO NEO Survey Program
(467889)	2011 FJ_{45}	2011 03 29	691	Spacewatch
(467890)	2011 GC_{35}	2007 10 11	F51	Mt. Lemmon Survey
(467891)	2011 GN_{63}	2011 04 04	691	Spacewatch
(467892)	2011 GD_{85}	2006 03 24	691	Mt. Lemmon Survey
(467893)	2011 HZ_{9}	2008 11 18	F51	Spacewatch
(467894)	2011 HJ_{11}	2011 04 22	691	Spacewatch
(467895)	2011 HP_{29}	2008 10 26	703	Spacewatch
(467896)	2011 HL_{36}	2010 01 06	691	Spacewatch
(467897)	2011 HY_{36}	2011 04 11	691	Mt. Lemmon Survey
(467898)	2011 HH_{40}	2010 04 03	G96	WISE
(467899)	2011 HP_{41}	2010 05 18	691	WISE
(467900)	2011 HD_{53}	2011 04 30	G96	Mt. Lemmon Survey
(467901)	2011 HN_{61}	2011 04 24	691	Spacewatch
(467902)	2011 HA_{68}	2003 09 30	F51	Spacewatch
(467903)	2011 HC_{73}	2006 04 19	691	Mt. Lemmon Survey
(467904)	2011 HL_{76}	2011 04 24	691	Spacewatch
(467905)	2011 HD_{94}	2011 04 13	G96	Mt. Lemmon Survey
(467906)	2011 JB_{19}	2010 02 14	F51	Mt. Lemmon Survey
(467907)	2011 KM_{3}	2010 05 17	691	WISE
(467908)	2011 KD_{7}	2010 05 26	G96	WISE
(467909)	2011 KR_{23}	2010 05 03	691	WISE
(467910)	2011 KT_{26}	2007 10 13	691	Spacewatch
(467911)	2011 KK_{47}	2007 09 13	G96	Mt. Lemmon Survey
(467912)	2011 KM_{47}	2010 05 17	G96	WISE
(467913)	2011 LW_{3}	2011 05 27	G96	CSS
(467914)	2011 LF_{16}	2009 11 20	F51	Mt. Lemmon Survey
(467915)	2011 LT_{19}	2004 02 12	G96	Spacewatch
(467916)	2011 OA_{14}	2006 12 12	F51	Spacewatch
(467917)	2011 OP_{24}	2011 07 28	F51	Pan-STARRS 1
(467918)	2011 OU_{26}	2010 02 16	F51	Siding Spring Survey
(467919)	2011 QU_{74}	2010 03 18	F51	Spacewatch
(467920)	2011 SF_{226}	2011 09 24	G96	CSS
(467921)	2011 TS	2011 09 24	A13	CSS
(467922)	2011 UJ_{26}	2011 10 17	691	Spacewatch
(467923)	2011 YU_{28}	2007 06 16	704	Spacewatch
(467924)	2011 YK_{39}	2011 12 29	691	Spacewatch
(467925)	2011 YL_{56}	2011 12 29	691	Spacewatch
(467926)	2012 AE_{16}	2010 12 03	G96	Mt. Lemmon Survey
(467927)	2012 AY_{17}	2008 09 24	G96	Mt. Lemmon Survey
(467928)	2012 AE_{22}	2004 12 15	F51	CSS
(467929)	2012 BH_{24}	2012 01 18	G96	Mt. Lemmon Survey
(467930)	2012 BP_{52}	2012 01 21	691	Spacewatch
(467931)	2012 BQ_{66}	2012 01 04	G96	Mt. Lemmon Survey
(467932)	2012 BS_{69}	2012 01 21	691	Spacewatch
(467933)	2012 BG_{90}	2012 01 26	691	Spacewatch
(467934)	2012 BG_{113}	2007 11 05	691	Spacewatch
(467935)	2012 BX_{126}	2012 01 29	691	Spacewatch
(467936)	2012 BN_{129}	2005 02 02	691	Spacewatch
(467937)	2012 BV_{149}	2007 12 05	691	Spacewatch
(467938)	2012 CK_{8}	2005 03 17	F51	Spacewatch
(467939)	2012 CJ_{35}	2005 03 10	G96	Mt. Lemmon Survey
(467940)	2012 CK_{52}	2005 03 08	F51	Spacewatch
(467941)	2012 DN_{1}	2005 03 11	F51	Spacewatch
(467942)	2012 DL_{23}	2012 02 21	691	Spacewatch
(467943)	2012 DR_{36}	2012 02 23	A14	Mt. Lemmon Survey
(467944)	2012 DP_{44}	2007 12 18	691	Mt. Lemmon Survey
(467945)	2012 DM_{51}	2012 02 19	F51	Spacewatch
(467946)	2012 DG_{63}	2012 01 27	G96	Mt. Lemmon Survey
(467947)	2012 DP_{63}	2012 02 11	G96	Mt. Lemmon Survey
(467948)	2012 DS_{64}	2010 09 09	G96	Spacewatch
(467949)	2012 FA_{9}	2012 02 01	F51	Spacewatch
(467950)	2012 FT_{12}	1999 09 05	G96	Spacewatch
(467951)	2012 FQ_{21}	2008 02 08	G96	Mt. Lemmon Survey
(467952)	2012 FE_{40}	2010 10 13	F51	Mt. Lemmon Survey
(467953)	2012 FT_{40}	2012 03 13	691	Spacewatch
(467954)	2012 FX_{52}	2007 12 31	G96	Spacewatch
(467955)	2012 HH_{4}	2011 01 04	691	Mt. Lemmon Survey
(467956)	2012 HM_{6}	2005 11 01	691	Mt. Lemmon Survey
(467957)	2012 HN_{17}	2011 01 25	691	Mt. Lemmon Survey
(467958)	2012 HU_{42}	2012 04 18	691	Spacewatch
(467959)	2012 HZ_{42}	2012 03 28	G96	Mt. Lemmon Survey
(467960)	2012 HG_{57}	2005 10 27	F51	Spacewatch
(467961)	2012 HR_{65}	2012 03 31	691	Mt. Lemmon Survey
(467962)	2012 JC_{9}	2010 12 25	G96	Mt. Lemmon Survey
(467963)	2012 JT_{17}	2012 05 15	G96	Mt. Lemmon Survey
(467964)	2012 JT_{24}	2012 03 27	703	Spacewatch
(467965)	2012 JC_{33}	2011 01 14	G96	Mt. Lemmon Survey
(467966)	2012 JJ_{60}	2012 04 28	G96	Mt. Lemmon Survey

(467967)	2012 KA_{1}	2009 10 23	F51	Mt. Lemmon Survey
(467968)	2012 KS_{10}	2009 11 18	G96	Mt. Lemmon Survey
(467969)	2012 KJ_{12}	2011 01 11	691	Spacewatch
(467970)	2012 KK_{44}	2009 10 26	H15	Spacewatch
(467971)	2012 KS_{45}	2012 05 29	G96	Mt. Lemmon Survey
(467972)	2012 KG_{48}	2005 12 24	G96	Spacewatch
(467973)	2012 KT_{50}	2012 02 25	G96	Mt. Lemmon Survey
(467974)	2012 LR_{4}	2008 07 25	G96	Mt. Lemmon Survey
(467975)	2012 LW_{10}	2010 02 06	F51	WISE
(467976)	2012 LY_{13}	2012 06 08	F51	Mt. Lemmon Survey
(467977)	2012 LM_{17}	2012 05 14	F51	Mt. Lemmon Survey
(467978)	2012 PT_{15}	2011 04 26	F51	Mt. Lemmon Survey
(467979)	2012 PE_{21}	2007 07 18	F51	Mt. Lemmon Survey
(467980)	2012 QJ_{16}	1995 09 18	F51	Spacewatch
(467981)	2012 QH_{39}	2008 12 31	703	Spacewatch
(467982)	2012 QR_{43}	2009 01 02	F51	Spacewatch
(467983)	2012 RK_{10}	2007 04 27	J75	Spacewatch
(467984)	2012 RM_{42}	2007 03 14	E12	Mt. Lemmon Survey
(467985)	2012 SM_{14}	2007 10 31	691	Spacewatch
(467986)	2012 SN_{52}	2005 04 07	G96	Spacewatch
(467987)	2012 TR_{3}	2012 09 16	F51	Mt. Lemmon Survey
(467988)	2012 TT_{33}	2012 09 15	G96	Mt. Lemmon Survey
(467989)	2012 TU_{42}	2007 09 18	G96	Mt. Lemmon Survey
(467990)	2012 TX_{94}	2001 09 19	691	LINEAR
(467991)	2012 TV_{96}	2005 06 11	691	Spacewatch
(467992)	2012 TO_{151}	2001 10 20	G96	LINEAR
(467993)	2012 TD_{163}	2001 11 17	F51	Spacewatch
(467994)	2012 TF_{164}	2010 01 24	F51	WISE
(467995)	2012 TJ_{216}	2006 04 07	926	CSS
(467996)	2012 TE_{264}	2010 04 03	F51	Spacewatch
(467997)	2012 TX_{271}	2007 11 03	926	Spacewatch
(467998)	2012 TW_{285}	2012 10 08	F51	Mt. Lemmon Survey
(467999)	2012 UM_{46}	2006 10 28	F51	Mt. Lemmon Survey
(468000)	2012 UV_{86}	2005 06 29	703	Spacewatch
(468001)	2012 UG_{166}	2005 04 07	F51	Mt. Lemmon Survey
(468002)	2012 VH_{26}	2007 04 24	F51	Mt. Lemmon Survey
(468003)	2012 VC_{51}	2010 04 13	G96	Mt. Lemmon Survey
(468004)	2012 XD_{17}	2012 12 05	G96	Mt. Lemmon Survey
(468005)	2012 XD_{112}	2012 12 10	691	Spacewatch
(468006)	2012 XL_{128}	2010 06 25	691	WISE
(468007)	2013 AR	2004 11 04	F51	CSS
(468008)	2013 AO_{6}	2005 01 13	703	CSS
(468009)	2013 AS_{40}	2009 09 22	691	Spacewatch
(468010)	2013 AW_{63}	2008 03 11	D03	CSS
(468011)	2013 AO_{103}	2012 12 21	691	Mt. Lemmon Survey
(468012)	2013 BP_{16}	2013 01 13	F51	Mt. Lemmon Survey
(468013)	2013 BY_{17}	2009 09 17	F51	Spacewatch
(468014)	2013 BN_{35}	2010 10 17	F51	Mt. Lemmon Survey
(468015)	2013 BB_{54}	2010 10 12	691	Mt. Lemmon Survey
(468016)	2013 BU_{75}	2010 11 30	G96	Mt. Lemmon Survey
(468017)	2013 CH_{1}	2008 02 09	703	Mt. Lemmon Survey
(468018)	2013 CU_{128}	2006 08 29	F51	Spacewatch
(468019)	2013 CG_{182}	2006 09 19	F51	CSS
(468020)	2013 CD_{189}	2006 12 14	F51	Mt. Lemmon Survey
(468021)	2013 DR_{13}	2006 09 19	G96	CSS
(468022)	2013 EV_{4}	2010 02 14	F51	Mt. Lemmon Survey
(468023)	2013 LY_{20}	2005 06 13	F51	Mt. Lemmon Survey
(468024)	2013 MX_{4}	2003 07 03	G96	Spacewatch
(468025)	2013 MN_{6}	2008 01 10	G96	Mt. Lemmon Survey
(468026)	2013 NR_{7}	2010 07 18	F51	WISE
(468027)	2013 OR_{9}	2010 11 10	F51	Spacewatch
(468028)	2013 PS_{1}	2010 11 01	F51	Mt. Lemmon Survey
(468029)	2013 PS_{5}	2006 09 19	F51	CSS
(468030)	2013 PG_{25}	2013 08 09	691	Spacewatch
(468031)	2013 PA_{30}	2005 07 04	F51	Mt. Lemmon Survey
(468032)	2013 PE_{55}	2012 03 16	F51	Mt. Lemmon Survey
(468033)	2013 PR_{73}	2009 11 25	I41	Spacewatch
(468034)	2013 PH_{74}	2004 02 12	I41	Spacewatch
(468035)	2013 QM_{2}	1996 09 06	F51	Spacewatch
(468036)	2013 QN_{3}	2010 11 03	F51	Mt. Lemmon Survey
(468037)	2013 QL_{22}	2008 04 04	F51	Mt. Lemmon Survey
(468038)	2013 QD_{27}	2008 03 11	N87	Spacewatch
(468039)	2013 QW_{31}	2012 03 01	F51	Mt. Lemmon Survey
(468040)	2013 QH_{39}	2013 07 30	G96	Spacewatch
(468041)	2013 QP_{58}	1999 10 10	F51	Spacewatch
(468042)	2013 QO_{67}	2007 02 23	G96	Mt. Lemmon Survey
(468043)	2013 QA_{68}	2009 04 02	G96	Spacewatch
(468044)	2013 QU_{74}	1998 07 20	F51	ODAS
(468045)	2013 QB_{85}	2010 11 06	C85	Mt. Lemmon Survey
(468046)	2013 QL_{95}	2012 03 17	I41	Mt. Lemmon Survey
(468047)	2013 RT_{11}	2008 02 13	F51	Mt. Lemmon Survey
(468048)	2013 RN_{18}	2006 10 27	I41	Spacewatch
(468049)	2013 RK_{23}	2011 03 30	691	Mt. Lemmon Survey
(468050)	2013 RW_{32}	2008 03 29	703	Mt. Lemmon Survey
(468051)	2013 RA_{36}	2010 01 06	A79	Spacewatch
(468052)	2013 RK_{48}	1999 11 03	F51	Spacewatch
(468053)	2013 RT_{51}	2004 10 09	H36	Spacewatch
(468054)	2013 RC_{63}	2005 12 07	G96	Spacewatch
(468055)	2013 RC_{67}	2004 10 08	G96	Spacewatch
(468056)	2013 RX_{75}	2005 04 16	G96	Spacewatch
(468057)	2013 RC_{85}	2009 11 16	691	Mt. Lemmon Survey
(468058)	2013 RP_{93}	2006 11 17	691	Mt. Lemmon Survey
(468059)	2013 SN_{15}	1995 09 19	G96	Spacewatch
(468060)	2013 SV_{22}	2012 03 28	N87	Spacewatch
(468061)	2013 SE_{24}	2012 03 24	G32	Mt. Lemmon Survey
(468062)	2013 SP_{25}	2010 02 09	621	Spacewatch
(468063)	2013 SR_{30}	2005 05 08	J43	Mt. Lemmon Survey
(468064)	2013 SD_{31}	2006 11 20	G96	Spacewatch
(468065)	2013 SP_{34}	2009 07 28	G96	CSS
(468066)	2013 SB_{41}	2006 09 19	F51	CSS
(468067)	2013 SR_{51}	2005 12 05	F51	Spacewatch
(468068)	2013 SK_{56}	2005 07 04	G98	Spacewatch
(468069)	2013 SQ_{56}	2011 03 02	G96	Spacewatch
(468070)	2013 ST_{72}	2012 03 13	G96	Mt. Lemmon Survey

(468071)	2013 SC_{75}	2005 04 10	G96	Mt. Lemmon Survey
(468072)	2013 SN_{75}	2005 10 01	G36	Mt. Lemmon Survey
(468073)	2013 SA_{77}	2009 09 20	I41	Mt. Lemmon Survey
(468074)	2013 TB_{7}	2009 08 02	J43	Siding Spring Survey
(468075)	2013 TS_{13}	2006 09 28	691	Mt. Lemmon Survey
(468076)	2013 TS_{14}	2009 09 29	I41	Mt. Lemmon Survey
(468077)	2013 TU_{14}	2006 11 10	G96	Spacewatch
(468078)	2013 TB_{20}	2009 06 23	G96	Mt. Lemmon Survey
(468079)	2013 TH_{29}	2008 11 09	G98	Spacewatch
(468080)	2013 TO_{46}	2011 03 29	G96	Mt. Lemmon Survey
(468081)	2013 TO_{50}	2009 08 19	F51	Spacewatch
(468082)	2013 TL_{51}	2009 06 17	691	Spacewatch
(468083)	2013 TF_{55}	2013 10 04	G96	Mt. Lemmon Survey
(468084)	2013 TN_{62}	2005 10 28	703	Spacewatch
(468085)	2013 TT_{73}	2008 05 05	691	Mt. Lemmon Survey
(468086)	2013 TX_{80}	2006 10 21	H15	Spacewatch
(468087)	2013 TQ_{95}	2010 03 15	691	Mt. Lemmon Survey
(468088)	2013 TT_{101}	2013 10 02	691	Spacewatch
(468089)	2013 TV_{103}	2013 10 03	691	Spacewatch
(468090)	2013 TC_{122}	2000 09 26	691	LINEAR
(468091)	2013 TT_{143}	2013 09 13	703	Mt. Lemmon Survey
(468092)	2013 TS_{155}	2008 11 21	695	Spacewatch
(468093)	2013 UZ_{9}	2011 04 24	G32	Mt. Lemmon Survey
(468094)	2013 UL_{13}	2009 08 17	I41	Siding Spring Survey
(468095)	2013 UW_{13}	2010 07 13	I41	WISE
(468096)	2013 VQ_{3}	2008 11 19	I41	Spacewatch
(468097)	2013 VC_{4}	2006 01 27	W85	Spacewatch
(468098)	2013 VW_{5}	2009 09 20	I41	Mt. Lemmon Survey
(468099)	2013 VF_{11}	2009 09 16	I41	CSS
(468100)	2013 VA_{18}	2010 01 07	926	Spacewatch
(468101)	2013 WW_{3}	2006 01 27	F51	Spacewatch
(468102)	2013 WX_{5}	2007 10 12	926	CSS
(468103)	2013 WN_{6}	2011 03 12	D29	Mt. Lemmon Survey
(468104)	2013 WK_{23}	2004 03 17	F51	Spacewatch
(468105)	2013 WT_{24}	2000 10 26	703	Spacewatch
(468106)	2013 WE_{63}	2008 11 01	703	Spacewatch
(468107)	2013 WN_{73}	2007 08 10	G96	Spacewatch
(468108)	2013 WO_{97}	2013 11 02	G96	Mt. Lemmon Survey
(468109)	2013 WO_{107}	2013 10 26	D29	Spacewatch
(468110)	2013 XQ_{13}	2007 11 08	G96	LINEAR
(468111)	2013 YH_{3}	2013 11 28	703	Spacewatch
(468112)	2013 YK_{38}	2011 04 04	G96	CSS
(468113)	2013 YC_{53}	2012 09 22	F51	Mt. Lemmon Survey
(468114)	2013 YK_{54}	2012 04 21	F51	Mt. Lemmon Survey
(468115)	2013 YN_{54}	2010 02 01	F51	WISE
(468116)	2013 YL_{103}	2006 05 26	G96	Mt. Lemmon Survey
(468117)	2014 ED	2014 03 01	C51	WISE
(468118)	2014 EO_{38}	2013 01 05	G96	Spacewatch
(468119)	2014 QY_{2}	2011 05 25	F51	Spacewatch
(468120)	2014 QB_{254}	2005 11 05	F51	CSS
(468121)	2014 SN_{298}	2013 05 16	691	Mt. Lemmon Survey
(468122)	2014 TK_{11}	2010 11 08	F51	Mt. Lemmon Survey
(468123)	2014 TC_{45}	2006 10 01	G96	Spacewatch
(468124)	2014 TG_{65}	2008 04 15	691	Spacewatch
(468125)	2014 UF_{7}	2006 10 19	G96	Spacewatch
(468126)	2014 UO_{32}	2012 04 18	691	Spacewatch
(468127)	2014 UA_{36}	2008 01 18	G96	Mt. Lemmon Survey
(468128)	2014 UW_{66}	2005 04 12	691	LONEOS
(468129)	2014 UD_{67}	2004 10 07	691	Spacewatch
(468130)	2014 UF_{85}	2007 10 20	G96	Spacewatch
(468131)	2014 UW_{88}	2008 11 21	G96	Spacewatch
(468132)	2014 UJ_{99}	2009 02 03	691	Spacewatch
(468133)	2014 UZ_{106}	2004 10 08	691	Spacewatch
(468134)	2014 UD_{109}	2014 10 24	691	Spacewatch
(468135)	2014 UY_{114}	2006 11 18	G96	Mt. Lemmon Survey
(468136)	2014 UZ_{119}	2003 09 28	691	Spacewatch
(468137)	2014 UZ_{121}	2012 02 23	703	Mt. Lemmon Survey
(468138)	2014 UC_{133}	2011 12 25	691	Mt. Lemmon Survey
(468139)	2014 UY_{134}	1995 10 17	691	Spacewatch
(468140)	2014 UA_{139}	2010 03 12	691	WISE
(468141)	2014 UY_{142}	2008 04 30	691	Mt. Lemmon Survey
(468142)	2014 UE_{150}	2006 11 23	691	Mt. Lemmon Survey
(468143)	2014 UF_{157}	2008 12 31	691	Spacewatch
(468144)	2014 UT_{170}	2003 09 04	H15	Spacewatch
(468145)	2014 WY_{21}	2005 10 28	G96	Mt. Lemmon Survey
(468146)	2014 WF_{24}	2011 03 14	691	Mt. Lemmon Survey
(468147)	2014 WD_{28}	2007 12 04	G96	Mt. Lemmon Survey
(468148)	2014 WF_{28}	2007 11 05	G96	Spacewatch
(468149)	2014 WD_{50}	2010 10 08	F51	Spacewatch
(468150)	2014 WZ_{62}	2010 09 18	G96	Mt. Lemmon Survey
(468151)	2014 WW_{67}	2012 02 27	691	Spacewatch
(468152)	2014 WM_{68}	2006 10 03	F51	Mt. Lemmon Survey
(468153)	2014 WL_{79}	2010 12 14	G96	Mt. Lemmon Survey
(468154)	2014 WH_{85}	2014 10 18	G96	Spacewatch
(468155)	2014 WY_{87}	1998 04 21	G96	Spacewatch
(468156)	2014 WK_{96}	2008 10 28	F51	Mt. Lemmon Survey
(468157)	2014 WH_{234}	2009 09 19	691	Spacewatch
(468158)	2014 WX_{251}	2011 01 04	G96	Mt. Lemmon Survey
(468159)	2014 WC_{263}	2009 02 24	F51	Mt. Lemmon Survey
(468160)	2014 WF_{281}	2001 10 14	F51	Spacewatch
(468161)	2014 WX_{354}	2012 08 10	F51	Spacewatch
(468162)	2014 WA_{355}	2010 04 09	F51	WISE
(468163)	2014 WS_{383}	2005 03 11	F51	Spacewatch
(468164)	2014 WK_{398}	2008 04 14	F51	Mt. Lemmon Survey
(468165)	2014 WQ_{398}	2009 11 18	F51	Mt. Lemmon Survey
(468166)	2014 WR_{402}	2007 11 18	691	Mt. Lemmon Survey
(468167)	2014 WF_{426}	2009 09 21	F51	Mt. Lemmon Survey
(468168)	2014 WX_{473}	2009 03 01	G96	Spacewatch
(468169)	2014 WS_{478}	2004 11 11	F51	LINEAR
(468170)	2014 WL_{481}	2005 04 10	F51	Spacewatch
(468171)	2014 WS_{481}	2011 03 27	F51	Mt. Lemmon Survey
(468172)	2014 WD_{499}	2010 12 03	F51	LINEAR
(468173)	2014 WE_{499}	2010 11 28	F51	Spacewatch
(468174)	2014 XM_{12}	2001 12 17	G96	LINEAR

(468175)	2014 YY_{2}	2010 06 16	J43	WISE
(468176)	2014 YZ_{9}	2002 01 08	H15	LINEAR
(468177)	2014 YQ_{10}	2010 02 18	F51	Spacewatch
(468178)	2014 YG_{13}	2004 01 22	F51	LINEAR
(468179)	2014 YG_{28}	2004 10 15	G96	Spacewatch
(468180)	2014 YJ_{38}	2003 04 30	F51	Spacewatch
(468181)	2015 AA_{12}	2011 04 30	F51	Mt. Lemmon Survey
(468182)	2015 AX_{36}	2006 02 27	F51	Spacewatch
(468183)	2015 AD_{38}	2012 05 16	F51	Mt. Lemmon Survey
(468184)	2015 AB_{119}	2006 01 26	F51	Spacewatch
(468185)	2015 AA_{144}	2009 09 19	F51	Mt. Lemmon Survey
(468186)	2015 AV_{168}	2010 02 19	F51	Mt. Lemmon Survey
(468187)	2015 AT_{174}	2007 03 14	F51	Mt. Lemmon Survey
(468188)	2015 AP_{180}	2014 10 23	F51	Mt. Lemmon Survey
(468189)	2015 AX_{181}	2011 01 29	F51	Mt. Lemmon Survey
(468190)	2015 AB_{195}	2005 10 30	F51	Spacewatch
(468191)	2015 AP_{241}	2006 01 31	G96	Spacewatch
(468192)	2015 AV_{241}	2011 05 21	F51	Mt. Lemmon Survey
(468193)	2015 AM_{248}	2010 04 09	F51	WISE
(468194)	2015 AD_{252}	2011 01 10	F51	Mt. Lemmon Survey
(468195)	2015 AD_{258}	2008 10 25	G96	Mt. Lemmon Survey
(468196)	2015 AC_{262}	2010 02 10	F51	WISE
(468197)	2015 AA_{273}	2007 01 27	F51	Spacewatch
(468198)	2015 AK_{279}	1999 01 16	G96	Spacewatch
(468199)	2015 BK_{1}	2004 09 11	691	Spacewatch
(468200)	2015 BC_{11}	2009 10 21	G96	Mt. Lemmon Survey
(468201)	2015 BE_{27}	2004 02 17	F51	Spacewatch
(468202)	2015 BH_{31}	2010 02 16	F51	Spacewatch
(468203)	2015 BK_{39}	2010 05 31	G96	WISE
(468204)	2015 BZ_{40}	2013 11 01	691	Mt. Lemmon Survey
(468205)	2015 BJ_{41}	2006 02 20	G96	Spacewatch
(468206)	2015 BV_{42}	2009 09 28	G96	Spacewatch
(468207)	2015 BG_{53}	2008 10 28	G96	Mt. Lemmon Survey
(468208)	2015 BF_{58}	2008 02 10	F51	Spacewatch
(468209)	2015 BT_{60}	2006 01 31	F51	Spacewatch
(468210)	2015 BX_{60}	2010 02 19	F51	Mt. Lemmon Survey
(468211)	2015 BX_{63}	2010 06 14	F51	WISE
(468212)	2015 BP_{64}	2010 02 18	F51	Mt. Lemmon Survey
(468213)	2015 BX_{73}	2005 04 12	F51	Spacewatch
(468214)	2015 BZ_{73}	2005 12 22	F51	Spacewatch
(468215)	2015 BC_{84}	2013 10 04	G96	Mt. Lemmon Survey
(468216)	2015 BF_{85}	2009 11 17	G96	Mt. Lemmon Survey
(468217)	2015 BH_{87}	2006 01 28	F51	Spacewatch
(468218)	2015 BP_{98}	2008 10 09	G96	Mt. Lemmon Survey
(468219)	2015 BB_{100}	2008 09 23	G96	Spacewatch
(468220)	2015 BA_{105}	2002 01 13	F51	LINEAR
(468221)	2015 BG_{109}	1998 12 14	G96	Spacewatch
(468222)	2015 BA_{122}	2012 06 15	F51	Spacewatch
(468223)	2015 BN_{126}	2010 02 16	F51	Mt. Lemmon Survey
(468224)	2015 BG_{132}	2008 09 04	F51	Spacewatch
(468225)	2015 BJ_{133}	2008 11 07	F51	Mt. Lemmon Survey
(468226)	2015 BS_{143}	2009 12 18	F51	Spacewatch
(468227)	2015 BC_{162}	2005 12 04	F51	Spacewatch
(468228)	2015 BJ_{169}	2006 09 14	F51	CSS
(468229)	2015 BR_{170}	2007 08 10	F51	Spacewatch
(468230)	2015 BV_{171}	2006 01 04	F51	Mt. Lemmon Survey
(468231)	2015 BH_{193}	2005 01 15	F51	Spacewatch
(468232)	2015 BU_{203}	2005 12 05	691	Spacewatch
(468233)	2015 BV_{216}	2010 01 07	F51	Mt. Lemmon Survey
(468234)	2015 BG_{223}	2006 01 31	F51	Spacewatch
(468235)	2015 BP_{223}	2008 09 23	F51	CSS
(468236)	2015 BZ_{223}	2006 01 07	F51	Mt. Lemmon Survey
(468237)	2015 BM_{228}	2010 01 15	F51	WISE
(468238)	2015 BJ_{238}	2007 04 14	G96	Mt. Lemmon Survey
(468239)	2015 BB_{241}	2003 11 15	F51	Spacewatch
(468240)	2015 BU_{242}	2004 03 23	F51	Spacewatch
(468241)	2015 BX_{242}	2006 04 30	F51	Spacewatch
(468242)	2015 BP_{245}	2005 12 28	F51	Mt. Lemmon Survey
(468243)	2015 BK_{246}	2006 01 26	F51	Spacewatch
(468244)	2015 BX_{249}	2009 12 17	F51	Spacewatch
(468245)	2015 BV_{253}	1999 10 01	F51	Spacewatch
(468246)	2015 BE_{255}	2003 12 18	F51	Spacewatch
(468247)	2015 BG_{256}	2012 04 28	F51	Mt. Lemmon Survey
(468248)	2015 BD_{258}	2010 01 08	F51	Spacewatch
(468249)	2015 BT_{271}	2010 06 05	691	WISE
(468250)	2015 BO_{278}	2010 02 13	691	Mt. Lemmon Survey
(468251)	2015 BT_{285}	2004 02 12	F51	Spacewatch
(468252)	2015 BF_{289}	2004 10 09	F51	Spacewatch
(468253)	2015 BQ_{291}	2010 06 27	691	WISE
(468254)	2015 BV_{306}	2013 10 27	G96	CSS
(468255)	2015 BS_{310}	2010 03 21	703	CSS
(468256)	2015 BE_{326}	2008 10 08	F51	Spacewatch
(468257)	2015 BW_{346}	2005 12 10	F51	Spacewatch
(468258)	2015 BZ_{347}	2006 05 20	F51	Spacewatch
(468259)	2015 BM_{361}	2009 11 24	F51	Spacewatch
(468260)	2015 BF_{383}	2009 11 10	F51	Mt. Lemmon Survey
(468261)	2015 BR_{396}	2010 05 08	F51	WISE
(468262)	2015 BH_{406}	2006 02 01	F51	Spacewatch
(468263)	2015 BA_{408}	1994 09 29	F51	Spacewatch
(468264)	2015 BA_{455}	2010 02 10	F51	Spacewatch
(468265)	2015 BO_{471}	2009 10 14	F51	Mt. Lemmon Survey
(468266)	2015 BF_{474}	2006 12 27	F51	Mt. Lemmon Survey
(468267)	2015 BX_{480}	2009 12 10	F51	Mt. Lemmon Survey
(468268)	2015 BO_{497}	2007 09 12	F51	Mt. Lemmon Survey
(468269)	2015 CK_{1}	2006 03 02	F51	Spacewatch
(468270)	2015 CE_{6}	2006 01 26	691	Spacewatch
(468271)	2015 CJ_{9}	2010 06 16	G96	WISE
(468272)	2015 CS_{14}	2008 09 24	G96	Spacewatch
(468273)	2015 CD_{15}	2004 02 16	G96	Spacewatch
(468274)	2015 CK_{15}	2010 01 06	G96	Spacewatch
(468275)	2015 CE_{28}	2010 06 23	F51	WISE
(468276)	2015 CX_{28}	2007 04 25	G96	Spacewatch
(468277)	2015 CT_{36}	2007 09 15	F51	Mt. Lemmon Survey
(468278)	2015 CZ_{42}	2012 10 11	F51	Mt. Lemmon Survey

(468279)	2015 DX_{4}	2009 10 15	F51	CSS
(468280)	2015 DE_{12}	2010 03 20	F51	Mt. Lemmon Survey
(468281)	2015 DY_{13}	2004 09 15	F51	Spacewatch
(468282)	2015 DM_{65}	2008 12 21	F51	Spacewatch
(468283)	2015 DP_{68}	2008 02 26	F51	Mt. Lemmon Survey
(468284)	2015 DQ_{80}	2009 01 01	F51	Spacewatch
(468285)	2015 DO_{100}	2008 11 18	F51	Spacewatch
(468286)	2015 DX_{108}	2007 04 25	F51	Spacewatch
(468287)	2015 DH_{111}	2007 10 06	F51	Spacewatch
(468288)	2015 DW_{140}	2008 09 26	F51	Spacewatch
(468289)	2015 DA_{147}	2008 09 22	F51	CSS
(468290)	2015 DT_{159}	2009 01 02	G96	Mt. Lemmon Survey
(468291)	2015 DV_{161}	2003 12 29	G96	Spacewatch
(468292)	2015 DU_{172}	2007 10 12	F51	Mt. Lemmon Survey
(468293)	2015 DF_{173}	1999 10 06	F51	Spacewatch
(468294)	2015 DW_{193}	2009 01 01	F51	Mt. Lemmon Survey
(468295)	2015 EV_{2}	2003 12 29	691	Spacewatch
(468296)	2015 EP_{13}	1999 11 09	F51	Spacewatch
(468297)	2015 EZ_{16}	2004 10 10	F51	Spacewatch
(468298)	2015 EP_{17}	2008 12 21	F51	Spacewatch
(468299)	2015 ET_{18}	2005 11 03	G96	CSS
(468300)	2015 FH_{3}	2006 12 27	F51	Spacewatch
(468301)	2015 FX_{125}	2012 06 14	F51	Mt. Lemmon Survey
(468302)	2015 FO_{211}	2009 09 21	F51	Spacewatch
(468303)	2015 FO_{339}	2007 04 11	F51	Siding Spring Survey
(468304)	2015 HC_{7}	2010 11 12	F51	Spacewatch
(468305)	2015 YA_{8}	2008 08 21	F51	Spacewatch
(468306)	2016 AK_{75}	2005 03 08	F51	CSS
(468307)	2016 AB_{108}	2004 12 10	F51	LINEAR
(468308)	2016 AM_{123}	2005 11 04	F51	Mt. Lemmon Survey
(468309)	2016 AD_{128}	2004 06 19	F51	LONEOS
(468310)	2016 AC_{182}	2008 06 01	F51	Mt. Lemmon Survey
(468311)	2016 BJ_{10}	2009 04 17	F51	CSS
(468312)	2016 BW_{38}	2006 01 27	F51	CSS
(468313)	2016 BU_{62}	2003 10 27	703	Spacewatch
(468314)	2016 CU_{26}	2008 03 30	703	CSS
(468315)	2016 CJ_{49}	2002 01 13	F51	Spacewatch
(468316)	2016 CJ_{65}	2010 12 14	F51	Mt. Lemmon Survey
(468317)	2016 CW_{65}	2010 12 08	F51	CSS
(468318)	2016 CP_{70}	2003 09 21	D29	Spacewatch
(468319)	2016 CT_{71}	1999 11 03	703	Spacewatch
(468320)	2016 CQ_{75}	2010 09 30	G96	Mt. Lemmon Survey
(468321)	2016 CD_{83}	2004 11 10	F51	Spacewatch
(468322)	2016 CX_{84}	2007 01 27	F51	CSS
(468323)	2016 CE_{89}	2006 05 02	F51	Mt. Lemmon Survey
(468324)	2016 CR_{102}	2009 06 17	F51	Mt. Lemmon Survey
(468325)	2016 CM_{110}	2007 03 14	F51	LONEOS
(468326)	2016 CW_{149}	2005 03 03	G96	CSS
(468327)	2016 CT_{189}	2010 03 26	F51	WISE
(468328)	2016 CH_{225}	2009 12 18	F51	Mt. Lemmon Survey
(468329)	2016 CU_{231}	2006 10 21	F51	CSS
(468330)	2016 CP_{240}	2005 10 26	F51	Spacewatch
(468331)	2016 CC_{243}	2006 11 16	F51	Mt. Lemmon Survey
(468332)	2016 CJ_{243}	2012 03 17	F51	CSS
(468333)	2016 DK_{16}	2009 08 17	691	Spacewatch
(468334)	2016 DK_{23}	2009 12 20	G96	Mt. Lemmon Survey
(468335)	2016 ET_{4}	2008 04 07	F51	Mt. Lemmon Survey
(468336)	2016 ET_{7}	2008 10 28	F51	Mt. Lemmon Survey
(468337)	2016 EN_{36}	2006 12 14	F51	Spacewatch
(468338)	2016 EW_{53}	2011 01 29	F51	Mt. Lemmon Survey
(468339)	2016 EC_{63}	2010 01 12	F51	Spacewatch
(468340)	2016 EA_{65}	2010 02 09	F51	Spacewatch
(468341)	2016 EL_{66}	2005 03 10	J43	Mt. Lemmon Survey
(468342)	2016 ER_{73}	2008 11 30	J04	Spacewatch
(468343)	2016 ED_{77}	1999 10 01	F51	Spacewatch
(468344)	2016 EN_{79}	2005 07 07	J43	Spacewatch
(468345)	2016 EJ_{80}	2006 05 24	F51	Spacewatch
(468346)	2016 ER_{80}	2002 02 16	F51	Spacewatch
(468347)	2016 EN_{87}	2002 01 13	F51	Spacewatch
(468348)	2016 ER_{108}	2009 08 16	F51	Spacewatch
(468349)	2016 ER_{110}	2008 10 30	F51	Mt. Lemmon Survey
(468350)	2016 EH_{113}	2012 04 20	G96	Siding Spring Survey
(468351)	2016 EO_{129}	2007 03 11	F51	Mt. Lemmon Survey
(468352)	2016 EB_{136}	2000 04 05	F51	Spacewatch
(468353)	2016 EL_{136}	2010 09 18	F51	Mt. Lemmon Survey
(468354)	2016 EJ_{141}	2007 10 04	F51	Mt. Lemmon Survey
(468355)	2016 EF_{144}	2009 09 29	F51	Mt. Lemmon Survey
(468356)	2016 EP_{145}	2005 03 08	F51	Mt. Lemmon Survey
(468357)	2016 EW_{154}	2005 10 12	F51	Spacewatch
(468358)	2016 EH_{161}	2010 12 03	F51	CSS
(468359)	2016 EN_{161}	2007 01 28	F51	CSS
(468360)	2016 EM_{162}	1999 01 11	F51	Spacewatch
(468361)	2016 EC_{171}	2002 03 21	F51	Spacewatch
(468362)	2016 EC_{179}	2010 02 18	F51	Spacewatch
(468363)	2016 EH_{181}	2005 05 08	F51	Mt. Lemmon Survey
(468364)	2016 EK_{187}	2009 11 09	F51	Spacewatch
(468365)	2016 EF_{196}	2012 02 25	G45	Mt. Lemmon Survey
(468366)	2016 EO_{202}	2001 09 19	I41	LINEAR
(468367)	2016 FX_{9}	2009 11 22	G96	Mt. Lemmon Survey
(468368)	2016 FV_{15}	1996 10 08	G96	Spacewatch
(468369)	2016 FH_{34}	2011 04 30	F51	Mt. Lemmon Survey
(468370)	2016 FG_{36}	2005 03 04	G96	Mt. Lemmon Survey
(468371)	2016 FL_{36}	2001 05 24	G96	Spacewatch
(468372)	2016 FP_{38}	2007 11 07	F51	Mt. Lemmon Survey
(468373)	2016 FG_{41}	2005 11 28	G45	Mt. Lemmon Survey
(468374)	2016 FM_{43}	2002 05 09	703	LINEAR
(468375)	2016 FB_{46}	2006 01 31	G96	Spacewatch
(468376)	2016 FK_{54}	2005 09 01	G45	Spacewatch
(468377)	2016 FV_{54}	2008 03 12	G45	Spacewatch
(468378)	2016 FZ_{54}	2009 10 17	G45	Mt. Lemmon Survey
(468379)	2016 FB_{56}	2005 03 10	F51	Spacewatch
(468380)	2016 FM_{56}	2009 01 29	J43	Mt. Lemmon Survey
(468381)	2016 GH_{10}	2008 10 29	G96	Spacewatch
(468382)	2016 GR_{12}	2009 10 26	G96	Spacewatch

(468383)	2016 GA_{13}	2006 05 25	G96	Spacewatch	
(468384)	2016 GP_{13}	2013 10 09	G96	Spacewatch	
(468385)	2016 GS_{65}	2005 02 02	G96	Spacewatch	
(468386)	2016 GW_{65}	2003 12 29	G96	Spacewatch	
(468387)	2016 GT_{101}	2007 11 12	F51	Mt. Lemmon Survey	
(468388)	2016 GL_{102}	2007 10 10	F51	Mt. Lemmon Survey	
(468389)	2016 GX_{103}	2008 02 07	F51	Spacewatch	
(468390)	2016 GP_{105}	2004 10 08	F51	Spacewatch	
(468391)	2016 GS_{107}	2005 04 06	F51	Spacewatch	
(468392)	2016 GC_{112}	2004 12 14	F51	CSS	
(468393)	2016 GD_{113}	2011 04 05	F51	Mt. Lemmon Survey	
(468394)	2016 GN_{119}	2009 06 24	F51	Mt. Lemmon Survey	
(468395)	2016 GH_{121}	2005 03 13	F51	Spacewatch	
(468396)	2016 GJ_{121}	2005 09 13	F51	Spacewatch	
(468397)	2016 GR_{124}	2010 06 01	G45	WISE	
(468398)	2016 GW_{125}	2003 09 30	691	Spacewatch	
(468399)	2016 GN_{126}	2006 09 15	691	Spacewatch	
(468400)	2016 GU_{126}	2005 11 05	691	Mt. Lemmon Survey	
(468401)	2016 GA_{127}	2007 10 11	G96	Spacewatch	
(468402)	2016 GC_{130}	2009 04 22	691	Mt. Lemmon Survey	
(468403)	2016 GX_{132}	2010 04 03	G45	WISE	
(468404)	2016 GB_{133}	2006 02 24	F51	Mt. Lemmon Survey	
(468405)	2016 GP_{154}	2011 11 29	G45	Spacewatch	
(468406)	2016 GT_{154}	2005 03 17	G96	CSS	
(468407)	2016 GP_{165}	2005 04 02	F51	Mt. Lemmon Survey	
(468408)	2016 GH_{174}	2006 01 07	F51	Spacewatch	
(468409)	2016 GK_{175}	2007 09 13	F51	Mt. Lemmon Survey	
(468410)	2016 GU_{176}	2006 05 25	F51	Mt. Lemmon Survey	
(468411)	2016 GF_{180}	2010 01 12	F51	CSS	
(468412)	2016 GF_{191}	2010 02 14	F51	Spacewatch	
(468413)	2016 GH_{191}	2008 07 01	F51	Spacewatch	
(468414)	2016 GV_{204}	2010 11 06	F51	Mt. Lemmon Survey	
(468415)	2016 GZ_{204}	2005 12 22	F51	Spacewatch	
(468416)	2016 GO_{215}	2003 09 19	G32	Spacewatch	

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2016 July 31.0 TT):

Object	H	M	ω	Ω	i	e	a	MPO
(467309)	19.8	335.16926	229.34981	117.63150	4.75473	0.5186573	1.5348038377979	
(467310)	17.9	312.44363	140.18814	159.66509	4.59760	0.1364840	2.2812287377979	
(467311)	17.7	193.19290	111.21922	291.13316	0.40463	0.1712720	2.4765069377979	
(467312)	18.3	137.02330	35.59378	56.31869	6.03356	0.0947811	2.1865547377979	
(467313)	18.6	78.15389	193.69236	315.19599	2.56366	0.0643135	2.2232854377980	
(467314)	16.7	40.23815	176.33286	6.15408	2.58366	0.2317295	3.0945221377980	
(467315)	16.9	270.75617	178.19397	177.30145	7.47079	0.2558468	2.7280188377980	
(467316)	18.3	308.28318	282.93470	40.03411	3.07236	0.2271030	2.3256769377980	
(467317)	19.8	306.12474	190.76782	158.70011	4.16798	0.4685759	1.9458590377981	
(467318)	15.6	7.14983	9.22570	301.76949	11.86421	0.2463155	3.0570244377983	
(467319)	16.3	285.97004	302.12393	59.27692	31.49189	0.2871555	2.6134519377983	
(467320)	16.7	42.18138	355.46944	208.00919	3.12626	0.1912434	2.8973247377984	
(467321)	15.9	268.71402	342.20234	6.81893	11.11561	0.3065776	3.0569657377984	
(467322)	17.6	230.29549	87.55511	262.97786	17.87847	0.1165762	1.9059998377984	
(467323)	16.6	174.88636	200.41582	181.69815	33.71782	0.2010926	2.6089927377985	
(467324)	17.6	352.93781	111.56446	194.02115	1.95005	0.2139561	2.4517742377985	
(467325)	18.0	295.86303	142.08438	174.32814	8.52184	0.0977002	2.5289704377985	
(467326)	16.2	94.59977	104.09809	27.29450	26.64092	0.1105428	2.6021974377985	
(467327)	17.9	157.85430	6.74185	41.02416	21.90253	0.0898093	1.9407428377986	
(467328)	17.7	233.33946	335.86863	46.17926	8.54840	0.1975806	2.5523736377986	
(467329)	16.2	297.42255	314.47257	15.31270	6.70087	0.2830889	3.0727709377986	
(467330)	17.4	130.60136	201.41960	223.41950	25.65091	0.1910724	2.2405464377986	
(467331)	16.7	87.09018	208.80564	258.08440	12.86218	0.2131342	2.7001697377987	
(467332)	15.6	269.88150	269.07691	105.53985	26.60523	0.3424605	3.1557961377987	
(467333)	17.5	163.52468	297.41507	128.26160	3.54136	0.1777422	2.6659276377987	
(467334)	17.2	102.92202	158.76271	345.97800	6.91827	0.0964095	2.2463238377987	
(467335)	18.8	345.82922	230.63024	93.55142	10.48971	0.4829554	1.9851203377988	
(467336)	20.3	274.78876	162.71046	259.42715	6.19591	0.3138106	0.8450463377988	
(467337)	17.8	298.62317	255.53195	80.73490	5.81180	0.2554039	2.3600237377988	
(467338)	18.5	348.21464	173.55310	103.63846	2.47264	0.1733385	2.3533656377989	
(467339)	18.4	338.02916	140.26570	150.36261	2.73938	0.2023210	2.3491323377989	
(467340)	15.1	285.75805	338.86920	4.43811	5.75366	0.2745003	3.9501655377989	
(467341)	14.9	283.70453	1.62109	343.82967	2.16846	0.2498245	3.9851513377990	
(467342)	16.7	103.65486	39.45641	65.45443	17.08717	0.2098226	3.1716102377990	
(467343)	16.6	268.81343	300.58390	42.37437	11.36509	0.1220133	2.9831782377990	
(467344)	15.6	305.82202	112.01713	216.42992	6.29520	0.3100997	3.9755880377990	
(467345)	17.6	261.87175	115.65669	244.64122	3.84013	0.2580152	2.4240071377991	
(467346)	15.6	44.56781	238.51519	325.18321	11.15992	0.2070750	2.5565476377991	
(467347)	20.6	5.19524	273.06010	21.13941	55.83215	0.3177176	1.3847416377991	
(467348)	16.6	9.68695	159.22608	77.33070	13.51921	0.2277371	2.6555585377991	
(467349)	16.7	3.76977	177.38844	47.11565	11.47962	0.1820194	2.6795540377992	
(467350)	17.4	18.31403	356.21152	218.86404	13.29642	0.1904077	2.6699551377992	
(467351)	20.5	267.57326	204.01690	215.49281	23.49920	0.5106718	0.7276278377992	
(467352)	21.2	313.53566	154.60645	249.99153	23.89905	0.3304929	0.9485855377993	
(467353)	16.6	355.67341	1.92779	274.19936	13.29710	0.3106347	2.7009336377994	
(467354)	17.8	264.22767	219.66219	137.88295	5.23980	0.2026406	2.2664203377994	
(467355)	16.0	264.26051	125.02860	240.36562	11.41227	0.2054070	2.7825225377994	
(467356)	17.0	297.69152	356.19996	314.91369	7.31577	0.2081272	2.7829670377994	
(467357)	16.9	314.03665	303.56316	23.74429	11.30079	0.2998546	2.7523640377995	
(467358)	17.9	331.05909	51.64944	246.13585	6.04575	0.2059204	2.2629566377995	
(467359)	17.6	207.78971	31.70816	359.49180	3.72328	0.1715835	2.3238919377995	
(467360)	18.0	312.42870	307.82605	10.15051	3.98114	0.2767996	2.2565770377995	
(467361)	18.3	321.31852	286.08259	28.15384	0.87667	0.2353121	2.2509819377996	
(467362)	17.8	249.52688	221.33465	150.32444	5.32640	0.2504030	2.2897897377996	
(467363)	17.2	297.54498	115.46412	224.22366	7.38159	0.3611266	2.7779979377996	
(467364)	17.6	281.22567	85.75945	244.94170	5.70575	0.1408211	2.3022260377997	
(467365)	16.6	251.07041	286.59293	74.56458	23.34195	0.3246344	2.3338665377997	
(467366)	16.4	257.99003	115.60832	253.04781	7.31636	0.2450871	2.8578020377997	
(467367)	16.8	83.21389	29.45600	111.13144	17.37737	0.1702605	3.1141553377997	
(467368)	16.0	175.66732	298.60714	130.74495	10.77822	0.0226207	3.0648744377998	
(467369)	16.4	43.24044	39.97367	147.67890	28.10952	0.1508486	3.1757752377998	
(467370)	15.8	64.76734	52.16503	120.38523	18.35871	0.2010565	3.1805538377998	
(467371)	16.8	281.88922	214.99205	90.55218	15.61870	0.2792872	2.6144657377999	
(467372)	18.0	8.12404	164.67400	256.88962	70.93005	0.8970854	2.0661226377999	
(467373)	15.6	219.88470	311.11625	60.47026	38.93397	0.2818815	2.7244730378000	
(467374)	17.6	203.90217	174.66198	229.76932	7.68027	0.0708489	2.6801712378000	

(467375)	17.3	271.74641	171.91676	184.27093	3.52701	0.3086631	2.6459988378000
(467376)	16.5	287.59481	232.75739	89.83204	17.93015	0.3456208	2.6569084378000
(467377)	17.6	240.60862	4.10173	7.21470	7.05532	0.1334090	2.1859670378001
(467378)	18.2	225.91458	212.56289	180.86292	6.00078	0.1074912	2.1839857378001
(467379)	17.4	162.89778	181.50512	243.97572	20.12644	0.0911502	1.8746052378001
(467380)	16.8	299.15212	275.91813	57.38469	7.81510	0.1972453	2.6380775378001
(467381)	17.0	280.72191	298.57722	57.56543	5.62074	0.2942495	2.6475864378002
(467382)	17.9	236.40212	2.59953	25.39329	5.42010	0.2050574	2.1849067378002
(467383)	18.1	288.71301	147.51542	192.15269	5.47898	0.2015157	2.1559716378002
(467384)	17.2	304.44491	318.88313	349.34740	4.61363	0.1079081	2.6852195378002
(467385)	16.9	224.78317	172.56782	212.00699	3.08370	0.1945239	2.7421890378003
(467386)	16.8	294.91188	144.43576	216.60248	11.88091	0.2838436	2.6315692378003
(467387)	17.1	293.36376	291.96944	49.47457	13.38870	0.2876897	2.6581121378003
(467388)	18.0	90.99078	236.94080	270.35665	18.01623	0.0900755	1.9159603378003
(467389)	16.3	256.44060	288.02562	72.59178	13.52373	0.2198826	2.7232395378004
(467390)	16.3	276.15613	310.32918	53.36927	13.16115	0.3311939	2.6743098378004
(467391)	17.1	151.82157	301.35530	112.20651	22.55717	0.2040744	2.3029953378004
(467392)	18.3	247.90662	211.52452	139.13360	25.27147	0.0922082	1.9321939378004
(467393)	18.1	61.05876	150.23435	31.83799	3.12851	0.1594104	2.3118967378005
(467394)	18.3	4.16324	47.56466	208.38851	3.63609	0.1761701	2.3367146378005
(467395)	16.3	23.59420	70.60019	152.63946	20.22795	0.2875827	3.0549118378005
(467396)	17.7	32.15068	185.93067	20.46694	7.49241	0.1564388	2.3688561378005
(467397)	17.0	350.54540	66.52602	195.05759	1.10406	0.1869459	3.1144233378006
(467398)	16.1	357.62240	124.02268	105.67038	18.13613	0.2164611	3.1217150378006
(467399)	16.3	44.90306	140.41489	28.96687	10.03027	0.0256674	3.1369907378006
(467400)	17.7	48.82284	78.15296	114.43607	2.11998	0.1360633	2.3618819378006
(467401)	16.9	24.58967	350.49668	190.06414	10.40653	0.1667048	3.1557049378007
(467402)	17.0	47.81568	308.65274	223.08154	9.31831	0.1646645	3.1210140378007
(467403)	16.3	81.08977	120.50597	27.87664	12.84447	0.0678326	3.0895781378007
(467404)	16.1	326.42925	224.32650	75.88478	12.22764	0.0999519	3.0854497378007
(467405)	16.1	338.77518	174.51550	80.78143	17.46486	0.0481085	3.1725586378008
(467406)	16.7	331.31431	269.88520	53.23595	22.74876	0.2224594	2.3479529378008
(467407)	16.3	18.83668	151.67429	79.06231	23.83977	0.1154680	3.1208028378008
(467408)	18.1	21.67268	196.52921	33.44366	3.62348	0.1738156	2.3781874378009
(467409)	16.3	38.01105	103.43077	103.46440	17.86340	0.1877690	3.1140743378009
(467410)	16.6	39.03058	83.94846	117.41950	21.85315	0.3270502	3.1001851378009
(467411)	17.1	323.93462	168.58819	117.10413	24.51218	0.2461920	2.4177641378009
(467412)	17.7	337.77226	66.40174	236.45980	3.64236	0.2444657	2.4194146378009
(467413)	17.8	328.11512	225.62166	86.66237	2.38259	0.2045649	2.4186563378010
(467414)	17.7	304.88393	359.75203	314.18880	5.44101	0.1046982	2.4543706378010
(467415)	17.8	250.06997	172.41481	188.57967	15.09253	0.1419664	2.5360506378010
(467416)	17.2	112.18893	230.86673	255.88200	5.14384	0.1299447	2.5944758378010
(467417)	16.8	186.51519	168.56979	230.58827	11.40461	0.1839652	2.6136192378011
(467418)	17.9	261.72811	131.10984	219.20040	4.98961	0.1077154	2.5663742378011
(467419)	17.3	357.05927	34.15592	224.34780	6.76217	0.1071340	2.5630703378011
(467420)	17.4	349.76700	35.02952	227.72622	2.87998	0.1228414	2.5582880378012
(467421)	17.1	217.10171	337.81946	44.81197	9.94514	0.0967980	2.6175165378012
(467422)	17.4	241.11608	327.27661	38.01107	7.63764	0.1145487	2.5871586378012
(467423)	17.6	122.89715	46.53283	54.68026	6.05525	0.1261617	2.6693463378012
(467424)	17.3	227.16080	324.03907	52.09844	13.96435	0.0637350	2.5885239378013
(467425)	16.8	191.31518	321.40838	85.54547	14.82559	0.2402342	2.6376708378013
(467426)	17.9	166.06227	358.59673	64.61357	4.75020	0.1223788	2.6497922378013
(467427)	16.6	100.96236	214.35570	266.90995	10.55274	0.1170264	2.7033138378013
(467428)	17.2	110.71436	35.31998	88.69526	9.78445	0.0714020	2.7155855378014
(467429)	17.6	97.29511	221.81560	256.81629	6.94006	0.1827515	2.7293525378014
(467430)	16.4	307.55356	18.12773	291.20435	13.24923	0.0565625	2.6571608378014
(467431)	17.3	353.68255	352.19989	260.74677	3.83313	0.1131235	2.7153450378014
(467432)	17.2	285.17717	268.65309	90.95409	5.96443	0.2720150	2.5475087378014
(467433)	17.3	207.02108	270.70642	110.99148	13.23017	0.1859097	2.6953459378015
(467434)	17.0	116.53272	94.92839	5.25764	3.11196	0.1713740	2.7486750378015
(467435)	16.9	61.55249	63.41673	124.40134	14.20690	0.0603706	2.7062052378015
(467436)	17.1	161.26532	342.63198	110.38523	12.09746	0.0469580	2.6795001378015
(467437)	17.6	122.73864	333.33967	104.26590	9.25272	0.2028068	2.7726156378016
(467438)	16.7	110.29248	16.56198	88.38664	14.88619	0.1697639	2.7785667378016
(467439)	16.9	70.18263	229.17761	283.99537	7.99768	0.0895577	2.7748724378016
(467440)	17.3	244.03890	236.36702	128.27529	5.11957	0.0609857	2.6930046378016
(467441)	17.4	161.29993	268.32728	159.69124	4.87249	0.0629942	2.7423854378017
(467442)	17.4	86.58841	263.11556	227.14582	3.09636	0.1670974	2.7872982378017
(467443)	16.4	179.71189	315.19524	125.34826	22.36877	0.0458288	2.6881198378017
(467444)	18.5	113.43546	13.63606	126.26847	30.34954	0.1570283	1.8042120378017
(467445)	18.3	260.01430	280.19517	66.18967	2.14250	0.0929635	2.1503048378018
(467446)	16.6	25.58322	79.99293	98.07180	7.60832	0.0497168	2.8585524378018
(467447)	17.3	157.02542	302.23266	124.44784	5.72271	0.0691396	2.7688000378018
(467448)	17.0	67.08286	19.71351	156.33956	11.51579	0.0840589	2.7959180378018
(467449)	17.2	14.38353	74.03394	162.56280	2.87332	0.1201696	2.8086162378019
(467450)	16.9	37.82526	95.44778	103.77847	5.04445	0.0362517	2.7854139378019
(467451)	16.9	117.29381	331.09709	142.40952	8.69794	0.1766047	2.7655675378019
(467452)	18.3	11.76669	196.97160	47.88745	0.26034	0.0794566	2.1959599378019
(467453)	18.0	355.24585	260.53854	1.06370	7.95043	0.2152285	2.2083977378020
(467454)	17.4	180.19492	295.14354	126.56937	1.23180	0.0648190	2.7751508378020
(467455)	17.5	21.73732	180.95562	45.94768	3.31884	0.1536944	2.8844745378020
(467456)	18.8	29.77225	44.48321	168.02098	3.67480	0.1511972	2.2304774378020
(467457)	17.8	1.02821	149.24837	76.54506	7.84407	0.1190970	2.2706881378021
(467458)	18.6	349.44878	141.72135	130.86508	2.83515	0.1168756	2.2344970378021
(467459)	17.9	6.31075	148.68303	113.43813	6.00155	0.1367197	2.2235449378021
(467460)	19.1	337.27742	17.77547	40.90230	5.95295	0.5817704	0.6717389378021
(467461)	15.3	158.20729	313.72765	64.08198	14.39162	0.0081799	3.1596736378022
(467462)	18.6	358.78253	115.51511	167.17708	8.78115	0.3131908	2.2256016378022
(467463)	18.5	325.18296	146.09940	143.36579	3.08339	0.1674552	2.2604997378022
(467464)	17.1	81.89390	24.04817	127.16697	7.57470	0.1750509	2.9321716378023
(467465)	17.9	20.67185	132.49818	94.95023	5.07547	0.1605357	2.2472829378023
(467466)	16.7	242.61203	288.96217	73.98380	12.85041	0.0719179	2.9513582378023
(467467)	16.7	293.65201	239.70095	88.02544	10.58495	0.2519857	2.9752244378023
(467468)	16.2	307.61391	318.15539	348.20523	14.27290	0.2590158	3.1022074378024
(467469)	16.8	315.85274	237.02096	99.05993	23.47650	0.2618259	2.2822423378024
(467470)	17.3	258.05317	321.11046	54.84599	3.92972	0.2129723	2.3219183378024
(467471)	18.4	308.61734	284.67978	33.69348	4.99417	0.2849729	2.3084177378024
(467472)	17.8	272.80053	349.11431	350.83469	2.44652	0.2072271	2.3519501378024
(467473)	17.5	265.86407	322.18205	16.76846	6.78562	0.1313666	2.3736195378025
(467474)	15.9	263.46851	158.56232	203.57263	15.34528	0.2838536	3.1616540378025
(467475)	18.9	278.58388	192.05348	181.01833	22.03307	0.3506402	1.8846891378025
(467476)	16.6	257.57715	131.41848	219.38923	8.22882	0.0817251	3.1691034378026
(467477)	18.0	355.70622	297.18565	321.93709	8.77388	0.1886792	2.3022703378026
(467478)	18.5	314.16159	81.83709	228.62789	3.39098	0.2695714	2.3168553378026

(467479)	15.4	300.90489	42.02031	261.03249	16.18290	0.2020701	3.1563776378026
(467480)	18.4	323.12132	102.51507	197.98926	1.65887	0.2009560	2.3422371378027
(467481)	16.2	357.71939	58.74186	201.61925	22.26019	0.2606585	3.1786011378027
(467482)	17.8	313.17662	268.54127	25.00405	5.28637	0.1226906	2.3993942378027
(467483)	17.7	152.87787	35.09043	48.30456	6.11104	0.1658083	2.4483072378028
(467484)	17.7	351.25127	184.93468	101.54279	3.21059	0.2046741	2.3149843378028
(467485)	16.3	310.86854	293.98860	24.15538	16.47395	0.2143376	3.1601649378028
(467486)	17.1	75.87676	48.60811	37.20790	14.24666	0.2526317	2.6241603378028
(467487)	16.0	297.98978	110.85468	208.70662	15.09929	0.1971824	3.1622805378029
(467488)	18.2	305.13542	288.21571	39.05820	7.60630	0.2878748	2.3402039378029
(467489)	17.4	286.40697	335.93673	10.24516	5.88509	0.2552817	2.3522125378029
(467490)	16.2	307.93545	120.29866	222.87039	24.87520	0.3118168	3.1242458378029
(467491)	18.2	302.33540	137.18005	186.13191	2.64358	0.2185701	2.3492746378030
(467492)	18.4	315.93753	283.46658	36.13415	2.98582	0.2333860	2.3275685378030
(467493)	18.2	303.17088	332.68572	2.50396	5.33195	0.2338035	2.3355905378030
(467494)	17.7	232.34590	212.99181	159.45608	3.40590	0.0868011	2.4198018378030
(467495)	17.7	208.87232	244.19883	150.54939	2.01234	0.1452907	2.4155225378031
(467496)	17.9	300.22743	280.16256	64.26985	0.37271	0.3513335	2.3340018378031
(467497)	17.7	116.28874	146.61539	318.34922	2.06781	0.1021343	2.5224819378031
(467498)	17.7	53.49251	82.80877	72.21296	4.67107	0.2046839	2.5866593378031
(467499)	17.9	282.14652	273.70280	68.10232	6.12605	0.1933020	2.3937908378032
(467500)	15.8	305.46381	275.30040	61.62293	23.04489	0.2550732	3.1757459378032
(467501)	16.6	91.35560	92.90034	51.93317	5.52955	0.1533241	2.5483673378032
(467502)	17.2	18.39859	130.81438	119.04425	11.72577	0.2462417	2.5666506378032
(467503)	17.5	109.27682	354.42261	128.90681	15.17585	0.2096167	2.5760261378032
(467504)	17.7	108.92175	75.66039	45.19542	0.23168	0.1483402	2.5828035378033
(467505)	17.8	132.13339	3.21740	102.98531	1.63706	0.1168983	2.5868739378033
(467506)	16.9	345.59856	138.02983	122.70850	18.06427	0.1900374	2.6281342378033
(467507)	17.4	167.78370	156.31525	273.72951	0.99417	0.1649777	2.5326305378033
(467508)	17.4	116.17065	161.48401	302.01246	9.31234	0.1228626	2.6152765378034
(467509)	16.6	140.78694	263.10484	153.51819	28.93347	0.3345575	2.6090336378034
(467510)	17.0	153.64847	84.47588	339.17429	21.83000	0.0381262	2.6368968378034
(467511)	17.0	2.81250	276.49134	344.46144	13.56841	0.2843803	2.6584033378034
(467512)	16.4	46.45801	149.08469	10.30028	14.22169	0.0485334	2.7332010378035
(467513)	17.3	302.17265	153.98421	163.15015	14.93877	0.1156490	2.6239626378035
(467514)	17.9	100.33697	47.45482	74.97679	4.45465	0.1282297	2.6594075378035
(467515)	17.4	338.58816	82.47951	207.60930	3.56115	0.1662407	2.6451450378035
(467516)	17.7	11.55386	19.10530	199.74886	4.33260	0.0886585	2.6882938378036
(467517)	17.0	40.18446	264.51235	282.90835	6.28114	0.1809629	2.6833724378036
(467518)	16.8	358.88849	159.24367	76.43663	12.05728	0.0428532	2.6727182378036
(467519)	16.9	42.95396	348.53418	200.77978	13.72053	0.0801238	2.7136144378036
(467520)	16.0	319.36285	260.08958	26.06104	15.26113	0.2310224	2.7060375378037
(467521)	16.7	39.00800	352.86023	221.90930	14.27654	0.1174277	2.6857846378037
(467522)	17.3	305.19103	228.37061	77.06091	5.88314	0.0978855	2.7101689378037
(467523)	16.9	40.87364	13.16131	189.63381	14.52193	0.1653354	2.6838469378038
(467524)	16.3	257.71313	196.43236	140.15390	16.27174	0.1439409	2.8498615378038
(467525)	17.0	358.72585	200.61388	48.58301	14.63921	0.1993675	2.7278788378038
(467526)	16.6	23.49924	220.08112	56.53300	19.56953	0.2269387	2.6185123378038
(467527)	19.5	334.52639	177.04077	152.63557	8.71933	0.3810583	1.7269658378039
(467528)	16.2	230.07519	193.33147	191.71764	13.92087	0.1287762	2.9986867378039
(467529)	16.2	306.93840	83.95319	248.21045	6.19699	0.3505104	2.8492848378040
(467530)	18.3	284.97520	91.62497	244.79228	3.88659	0.2055452	2.1712269378040
(467531)	16.6	1.21797	45.11734	200.99815	10.63703	0.0745385	2.9949597378040
(467532)	16.1	253.47423	342.95121	6.76152	17.31088	0.2350955	3.0171791378040
(467533)	16.4	222.73569	168.17268	202.03971	7.10512	0.1112958	3.0840724378041
(467534)	15.8	281.23480	92.57141	174.71235	26.35065	0.1097814	3.1427521378041
(467535)	16.8	220.42359	281.72180	96.86844	3.51253	0.0976202	3.0740481378041
(467536)	16.5	251.30441	8.67024	346.90028	3.61932	0.2079604	3.0004563378041
(467537)	15.8	215.41518	157.19751	236.47977	15.03871	0.0782835	3.1896886378042
(467538)	17.7	241.86066	237.41695	130.07459	4.86813	0.1872712	2.2084232378042
(467539)	16.7	106.86884	302.45723	196.18205	9.41251	0.0414295	3.0766345378042
(467540)	16.8	9.81065	112.22391	194.59597	15.12883	0.2900139	2.7393180378042
(467541)	18.0	199.99351	212.28555	196.54999	3.28944	0.1540137	2.2443066378042
(467542)	18.4	268.84174	325.00846	26.22192	5.11472	0.1673946	2.2175312378043
(467543)	16.0	244.12797	150.41856	214.41098	16.21950	0.2236772	3.0834081378043
(467544)	16.1	230.63566	333.99401	43.59772	6.55069	0.2258086	3.0838781378043
(467545)	17.9	288.79360	130.47146	196.60887	3.39881	0.1991092	2.2165115378044
(467546)	16.1	339.73196	244.80690	26.85631	11.20881	0.1769578	3.0294363378044
(467547)	18.1	169.43709	204.94803	218.69906	2.83818	0.1418263	2.2866726378044
(467548)	17.6	339.09493	255.69062	24.23961	8.27588	0.1449002	2.1982318378045
(467549)	15.7	248.36098	283.80661	45.88763	14.18907	0.1920508	3.1657343378045
(467550)	17.9	249.74524	171.49638	188.52207	7.33309	0.2653263	2.2242298378045
(467551)	16.2	327.61444	40.04900	197.93982	19.62872	0.1216043	3.2107170378045
(467552)	16.2	98.25188	95.81129	47.19266	16.73861	0.0414882	3.1972450378046
(467553)	16.4	9.42235	93.10378	206.50008	18.46218	0.3231745	2.7732252378046
(467554)	16.4	307.75834	65.82883	246.54661	3.45630	0.1159558	3.0793105378046
(467555)	16.4	269.82124	302.81771	39.87708	10.96897	0.1927731	3.0674250378046
(467556)	18.1	308.79819	97.66170	231.06676	5.06452	0.2288292	2.1657489378047
(467557)	17.6	232.28989	141.29299	240.68026	4.48882	0.1131804	2.2310295378047
(467558)	18.3	313.80961	112.18416	211.82022	3.64141	0.2145224	2.1645426378047
(467559)	16.2	289.81910	298.59657	28.51174	10.51797	0.1170313	3.0316846378048
(467560)	16.4	286.09568	133.45040	211.52197	9.90610	0.1707885	3.0031459378048
(467561)	15.5	234.01681	141.52720	238.78512	9.62730	0.1061124	3.1109529378048
(467562)	16.2	217.24740	358.46906	32.14292	9.51478	0.1014590	3.1406784378048
(467563)	16.0	273.90697	82.47197	225.90579	23.92927	0.2329167	3.1555213378049
(467564)	16.4	232.31768	319.92093	54.90935	8.55082	0.1964334	3.1098851378049
(467565)	17.9	269.68289	38.92138	315.37281	6.52104	0.1743571	2.1988743378049
(467566)	18.1	140.76452	37.40227	44.42384	2.42042	0.0743869	2.2945499378049
(467567)	15.9	201.72405	330.61500	71.12857	7.92584	0.1360176	3.1373966378050
(467568)	16.4	194.73433	199.35962	197.25475	8.16752	0.1751660	3.1499911378050
(467569)	17.7	199.16580	292.59557	113.35853	4.78545	0.1253103	2.2657161378050
(467570)	16.5	277.69601	98.37988	233.62000	9.50164	0.0845763	3.1082269378050
(467571)	16.1	193.36883	333.64614	72.77873	12.29485	0.1406823	3.1237386378051
(467572)	15.8	221.52968	166.68973	219.90919	15.51302	0.2100094	3.1193554378051
(467573)	16.0	311.17418	242.46317	61.18187	11.85130	0.0433106	3.1692918378051
(467574)	17.9	267.15635	139.95786	203.66663	4.37926	0.2028608	2.2255294378051
(467575)	15.9	285.39807	260.21657	62.35753	10.39381	0.0654934	3.1371973378051
(467576)	17.4	300.74793	257.04727	64.35831	6.68637	0.1954928	2.2258418378052
(467577)	16.6	267.44517	45.14788	309.39755	2.92456	0.1742712	2.9635082378052
(467578)	17.6	167.01282	358.01190	63.57246	7.78122	0.1263064	2.2982306378052
(467579)	16.4	289.94872	117.52064	189.65705	9.33146	0.0625619	3.0708905378053
(467580)	16.5	134.36736	174.79602	234.45216	24.48615	0.1918966	2.3608022378053
(467581)	16.8	60.43995	306.32979	62.61749	22.56958	0.0280487	2.0176033378053
(467582)	18.0	350.42835	53.11433	221.26207	5.90925	0.1944044	2.1975370378053

(467583)	18.2	281.95653	136.58216	211.31709	4.56472	0.1618680	2.2135572378054
(467584)	15.7	220.07057	152.51189	238.28509	14.97642	0.0792522	3.1639998378054
(467585)	18.0	284.23164	289.59290	52.43194	3.19232	0.2284944	2.2118800378054
(467586)	16.7	134.89844	36.52228	56.20568	2.04897	0.0713494	3.2172220378054
(467587)	16.5	55.15909	140.27849	40.77638	9.97661	0.0246803	3.1572665378055
(467588)	16.3	226.60997	354.07476	28.44249	10.82832	0.0897497	3.1620101378055
(467589)	17.8	130.43983	244.72013	215.33100	5.83654	0.0911276	2.3344479378055
(467590)	15.7	208.77424	143.03314	238.36071	9.94909	0.1276538	3.1589957378055
(467591)	15.9	145.86553	220.78407	237.32580	13.62455	0.0800884	3.1842034378056
(467592)	16.3	202.20014	358.83402	31.55850	17.43142	0.0787031	3.1355927378056
(467593)	16.6	262.98774	128.05786	224.77567	5.05975	0.1406553	3.0409351378056
(467594)	18.5	44.72008	130.49542	65.06265	6.18424	0.0702981	2.2805252378056
(467595)	15.9	186.27676	22.90290	27.93806	9.80831	0.0706136	3.2145815378057
(467596)	16.4	249.19595	148.20012	204.43557	8.65433	0.1100621	3.1656236378057
(467597)	16.0	269.78324	100.54979	238.21724	10.09734	0.0524729	3.1935349378057
(467598)	16.0	149.75410	62.44144	26.74098	10.65108	0.0442069	3.1880535378057
(467599)	15.7	241.65512	296.37375	72.06619	12.15134	0.1332755	3.1161067378058
(467600)	16.2	255.70246	200.92677	177.34697	8.34132	0.2558028	3.0273803378058
(467601)	17.8	144.01557	333.46886	111.51301	6.47821	0.1598999	2.3192472378058
(467602)	17.6	243.49779	301.87704	60.48605	12.49850	0.1351426	2.2579860378059
(467603)	16.4	210.36697	315.62861	72.36566	7.07089	0.0384033	3.2370250378059
(467604)	18.3	103.36303	305.92661	197.63941	6.16574	0.0664609	2.2937256378059
(467605)	15.3	206.84686	296.14452	92.01286	27.23891	0.2908520	3.1735040378059
(467606)	17.8	137.61565	358.61887	91.00172	3.13289	0.1767995	2.3284381378060
(467607)	17.8	255.03257	299.95078	67.13185	7.15373	0.2362118	2.2712874378060
(467608)	18.4	74.74997	93.50535	55.88578	23.86950	0.0941703	1.8645545378060
(467609)	19.4	16.33833	5.93570	304.58450	15.29281	0.3366397	1.1895897378060
(467610)	18.1	93.90551	249.26493	240.24653	3.35296	0.1679951	2.4114191378061
(467611)	17.8	112.80407	266.94119	224.05505	2.09770	0.1061857	2.3884259378061
(467612)	18.3	83.60361	345.95227	163.23286	1.50616	0.1378333	2.4227069378061
(467613)	15.6	253.47839	221.17322	142.39638	10.87243	0.0347729	3.4400760378061
(467614)	18.1	89.46013	352.39146	151.44901	1.92284	0.1256631	2.4341968378062
(467615)	18.0	112.92612	272.88581	184.56948	0.69326	0.1688154	2.4085161378062
(467616)	17.8	55.03470	34.82283	159.21179	8.04702	0.0663280	2.4282576378062
(467617)	18.3	46.86399	248.57546	303.58259	1.44990	0.1526693	2.4356584378062
(467618)	17.8	122.97099	206.29016	266.83970	3.99962	0.1434559	2.3896421378062
(467619)	17.5	24.26123	122.40710	89.49170	6.11988	0.1330484	2.4258351378063
(467620)	17.5	41.42010	119.13295	95.89364	3.47462	0.1480356	2.4491782378063
(467621)	17.2	133.77814	335.08882	138.36064	7.84276	0.0948077	2.4116875378063
(467622)	17.7	28.96791	39.73093	190.71969	11.91875	0.2199941	2.4636971378064
(467623)	17.7	42.27788	187.35737	11.01151	6.86139	0.0765145	2.4371306378064
(467624)	18.1	81.73262	316.36266	192.82041	2.36463	0.1139026	2.4786867378064
(467625)	17.6	358.53561	112.68568	95.77851	4.39149	0.1598154	2.5983873378064
(467626)	17.9	322.16942	88.00902	203.64193	11.34244	0.2727561	2.5576308378065
(467627)	17.2	307.70086	128.71838	194.38055	16.96032	0.2423354	2.5368346378065
(467628)	16.5	293.03936	228.97446	109.56209	20.52338	0.3289479	2.5719199378065
(467629)	16.5	41.35691	57.32484	82.85881	14.26209	0.1189382	2.6373374378065
(467630)	17.5	11.79023	127.90057	109.36436	5.34973	0.1793798	2.5977394378065
(467631)	16.6	306.21712	73.45850	260.99322	10.21339	0.3213009	2.6399744378066
(467632)	16.9	306.71343	188.49218	144.96746	15.07192	0.2924001	2.6432012378066
(467633)	16.7	316.27813	258.97416	73.37424	16.04515	0.2756840	2.6162547378066
(467634)	17.0	282.84187	345.58958	336.36334	1.08839	0.2027294	2.7552450378066
(467635)	14.2	318.00864	33.91985	233.33895	6.30186	0.0125208	5.1503574378067
(467636)	16.7	282.56390	8.99398	333.56950	9.88855	0.1859533	2.6834754378067
(467637)	17.2	301.25648	303.95827	9.29145	6.26386	0.0597951	2.7466366378067
(467638)	17.5	308.00374	130.34889	181.62483	6.65492	0.0998962	2.7054553378067
(467639)	17.1	241.30984	163.39244	192.35393	4.22096	0.0813880	2.7956344378067
(467640)	17.1	204.24271	146.62110	242.77536	7.85716	0.0907413	2.8639540378068
(467641)	16.9	271.91166	229.43032	87.62734	3.20266	0.0611591	2.8451564378068
(467642)	16.7	263.12115	144.96862	209.03891	6.43829	0.1825900	2.7636208378068
(467643)	17.1	299.84840	141.83674	184.30859	12.70016	0.1809381	2.7086486378068
(467644)	13.7	224.66119	195.11374	203.04968	29.05884	0.0598006	5.1605890378069
(467645)	17.4	293.68167	31.21660	287.19234	3.31015	0.0531545	2.8093528378069
(467646)	17.0	283.42659	51.11735	282.82211	2.91303	0.1038877	2.7839869378069
(467647)	16.9	265.83563	194.20802	157.95832	5.43297	0.1405494	2.8014228378069
(467648)	16.6	10.00348	81.56718	222.76017	11.24793	0.1954936	2.5703435378070
(467649)	15.9	253.64288	277.03677	80.75104	20.93163	0.2091717	2.8069427378070
(467650)	16.1	249.78845	302.48537	64.66866	8.79190	0.2387950	2.7925983378070
(467651)	16.6	114.30982	241.53139	211.94407	11.50088	0.1256982	3.0257802378070
(467652)	16.2	274.53232	49.90768	261.56997	11.18641	0.2184289	2.8130996378071
(467653)	16.2	20.06154	251.27922	334.64796	10.61735	0.1509035	2.6980683378071
(467654)	17.1	232.16374	311.57730	58.47882	2.77624	0.0858440	2.8440828378071
(467655)	16.7	305.62606	90.96461	228.82233	16.22571	0.1979242	2.7290512378071
(467656)	17.3	343.40860	72.03356	222.78866	10.96971	0.3020490	2.6674253378072
(467657)	17.3	282.77828	166.48819	163.71764	4.52711	0.1039575	2.7751264378072
(467658)	16.8	3.68094	207.60477	37.48464	6.87564	0.0168049	2.8061488378072
(467659)	16.7	249.81958	278.30933	94.15249	8.71925	0.2388316	2.7828411378072
(467660)	16.9	0.22877	202.76037	37.51164	12.56904	0.0079179	2.9058773378072
(467661)	17.3	229.56870	199.93963	178.92380	1.84106	0.0844731	2.8520844378073
(467662)	17.5	267.22204	296.56411	57.50128	3.43531	0.1948427	2.7790132378073
(467663)	16.1	139.73898	21.11867	37.76896	22.99008	0.1079440	3.0972136378073
(467664)	16.2	121.19106	68.97959	34.67566	10.76076	0.1131230	3.0450002378073
(467665)	17.6	291.93827	141.48822	219.49598	30.56324	0.2267727	1.9965282378074
(467666)	16.6	294.52647	303.90773	44.77037	13.78902	0.2802883	2.6878621378074
(467667)	16.9	316.30534	314.86115	5.63206	13.07506	0.2682679	2.6901518378074
(467668)	16.8	296.77431	292.21847	25.11995	6.65982	0.0486514	2.7858960378074
(467669)	16.2	184.89900	31.36513	19.60844	9.58078	0.0835311	2.9586846378075
(467670)	16.4	99.50667	214.38537	274.97335	9.07624	0.0345036	3.0043603378075
(467671)	16.7	289.84756	53.85006	278.95591	6.63406	0.2257637	2.7871846378075
(467672)	16.1	142.38747	20.81003	72.47017	9.48098	0.0569641	3.0324332378075
(467673)	16.5	242.71511	46.87856	275.92591	10.56647	0.0304941	2.9907331378076
(467674)	16.3	80.73537	271.52413	231.83790	14.53582	0.0953835	3.0457877378076
(467675)	16.5	104.85965	42.35983	73.56491	17.80693	0.2143551	3.1378763378076
(467676)	16.1	119.14066	238.73679	208.21937	15.98243	0.2144465	3.1197339378076
(467677)	16.8	0.99038	33.00208	210.74088	4.54158	0.1089775	2.8037497378077
(467678)	16.7	309.87976	87.65855	229.44757	19.23672	0.1984910	2.7742351378077
(467679)	16.7	120.57795	229.72437	224.48963	11.65839	0.1237434	3.0031521378077
(467680)	16.4	159.58846	61.51824	17.05855	9.93544	0.0917476	2.9806775378077
(467681)	15.7	181.30428	129.19246	252.82767	14.78846	0.0615462	3.0730079378077
(467682)	16.5	303.96544	95.09773	229.94507	14.57091	0.3072359	2.7424446378078
(467683)	16.4	101.15164	57.92598	41.19068	18.72892	0.0837306	3.0879629378078
(467684)	16.5	243.30938	292.10446	80.05637	12.09889	0.1085316	2.9030395378078
(467685)	16.2	43.38466	274.22751	248.80674	11.21053	0.0904198	3.0884342378078
(467686)	16.4	154.70456	67.70450	355.73529	9.12049	0.0882859	3.0542911378079

(467687)	16.7	115.24109	59.36717	43.04514	8.14456	0.1429577	3.1187757378079
(467688)	16.6	225.91411	320.45006	52.58566	15.32142	0.0458206	2.9883297378079
(467689)	16.6	168.04747	202.36495	215.66469	5.94465	0.0849431	3.0554350378079
(467690)	16.2	153.32779	189.86317	238.64296	8.71691	0.1752353	3.0272234378080
(467691)	17.0	297.18200	256.86481	73.42629	9.80827	0.1364372	2.8057259378080
(467692)	16.4	257.65158	271.10469	80.95280	8.60543	0.0239386	2.9085270378080
(467693)	16.6	300.52719	262.13916	73.72738	10.84788	0.3277083	2.7308979378080
(467694)	16.4	106.63798	33.31543	64.18942	14.14803	0.1030605	3.1278263378080
(467695)	16.4	127.47014	198.25783	240.82967	6.90431	0.1831178	3.1322685378081
(467696)	16.8	111.70528	25.14061	73.83827	6.18218	0.2205127	3.1482138378081
(467697)	16.7	217.54278	319.48348	64.95932	11.14253	0.1296026	2.9660917378081
(467698)	17.4	186.62563	261.53771	144.96267	3.05775	0.0295687	2.9457010378081
(467699)	16.3	206.88726	296.38909	85.89787	10.06420	0.1655183	2.9906910378082
(467700)	16.2	225.55332	343.62925	47.90548	11.33995	0.1231246	2.9124323378082
(467701)	16.0	159.34181	341.06133	101.27468	10.40477	0.0635065	3.1383987378082
(467702)	16.2	138.41100	21.53338	77.09025	7.45430	0.0785644	3.0423490378082
(467703)	16.5	146.22965	53.71376	38.32602	11.88213	0.0973075	3.0079681378083
(467704)	15.9	91.87901	40.28709	109.77641	27.90807	0.1645559	3.1928514378083
(467705)	16.3	199.40702	281.03705	111.06922	9.71190	0.0866207	3.1786309378083
(467706)	17.7	104.24161	147.84142	342.88575	4.39519	0.0957681	2.2037026378083
(467707)	18.3	24.62208	100.77034	132.33593	3.79258	0.0758372	2.1580643378084
(467708)	16.5	214.74372	299.37027	84.75305	11.21884	0.0976175	2.9867353378084
(467709)	15.5	119.51841	2.05610	106.29539	15.73615	0.1574941	3.1932283378084
(467710)	15.7	292.26287	206.31545	101.76900	11.68346	0.0340584	3.0950688378085
(467711)	16.6	65.27708	27.21075	132.86927	6.69946	0.0813548	3.2374107378085
(467712)	16.3	89.44455	47.35872	105.07938	10.49273	0.0510299	3.1280866378085
(467713)	17.6	3.85540	358.96038	261.44998	3.55409	0.0679172	2.1460408378085
(467714)	15.8	304.92227	335.89303	307.85164	17.42780	0.0825403	3.2515254378086
(467715)	16.1	199.17988	290.87980	119.01525	11.42548	0.1073142	3.1286752378086
(467716)	16.3	169.54861	293.44724	142.21663	17.97963	0.1129908	3.1883859378086
(467717)	15.8	170.30617	300.23069	119.85590	27.05732	0.1819916	3.1702026378086
(467718)	18.6	17.88879	73.38592	141.05368	6.76276	0.1940021	2.2818105378087
(467719)	16.3	120.24750	1.73438	129.47313	12.90377	0.0441854	3.1276656378087
(467720)	17.5	78.18592	175.44640	348.41978	3.79957	0.1267906	2.2209419378087
(467721)	17.3	346.98523	133.40162	162.54519	22.27021	0.1682238	2.1821668378087
(467722)	17.6	115.34787	150.13651	330.97973	6.16198	0.0857979	2.2345225378088
(467723)	18.5	90.63635	7.78665	154.63271	5.02931	0.0430364	2.2368929378088
(467724)	18.1	50.96738	334.29349	220.33827	3.87318	0.1260982	2.2907013378088
(467725)	18.0	347.36919	193.82111	92.17171	3.72556	0.1737424	2.2702628378088
(467726)	18.7	29.76185	228.12801	344.63021	0.70869	0.1758238	2.2921959378089
(467727)	18.1	342.72457	149.30239	136.72545	5.68145	0.2269711	2.3195880378089
(467728)	17.6	193.22418	349.28985	57.81118	4.16943	0.1618188	2.3062574378089
(467729)	18.4	25.30997	63.35134	151.66292	5.68447	0.1828045	2.3261914378089
(467730)	17.4	347.68409	47.89590	232.03587	24.24286	0.1176762	2.2927978378089
(467731)	17.2	190.91635	101.17489	288.39656	13.16675	0.0215071	2.5172912378090
(467732)	17.6	304.34263	178.17163	146.23351	2.69165	0.1780377	2.4196836378090
(467733)	17.6	327.46185	142.46983	159.85793	7.14898	0.2160586	2.4018569378090
(467734)	17.9	289.49568	56.38216	286.14091	3.81805	0.1854562	2.4267679378090
(467735)	16.8	167.80117	57.77163	340.23471	8.38744	0.2422289	2.6957923378091
(467736)	17.6	318.90815	134.56372	186.23727	4.88043	0.2238681	2.4143500378091
(467737)	18.5	181.63248	232.45913	183.30929	21.40237	0.1067484	1.9030125378091
(467738)	17.4	258.85906	148.13434	189.85096	10.80820	0.0930271	2.5975743378091
(467739)	17.7	309.94310	118.57240	173.75403	3.75937	0.1219814	2.5576639378092
(467740)	17.5	243.78773	349.55396	0.53669	13.23598	0.1101894	2.5586627378092
(467741)	17.5	322.07208	90.81626	234.58824	10.07698	0.2800812	2.4185582378092
(467742)	17.4	232.16431	357.64824	8.47897	10.73840	0.1189222	2.5981938378092
(467743)	13.9	270.26722	54.49109	261.14092	7.38423	0.0884546	5.1549187378093
(467744)	17.7	231.11706	201.68425	166.50330	1.55881	0.0602178	2.5568452378093
(467745)	17.9	167.65299	211.08330	213.52947	1.99215	0.0717032	2.5902090378093
(467746)	13.5	222.10481	159.65709	201.05895	20.75839	0.0506576	5.2665238378093
(467747)	18.5	321.25673	163.42533	155.76912	2.32377	0.2176198	2.4425021378093
(467748)	14.1	187.69625	357.51138	48.46760	9.49074	0.0755962	5.2780501378094
(467749)	16.8	288.52620	325.13916	357.87767	15.12286	0.1453466	2.5428551378094
(467750)	14.0	205.67905	152.59082	228.23342	7.69011	0.0767077	5.1970164378094
(467751)	17.8	235.66358	187.16502	186.86627	13.51934	0.1845979	2.5404278378095
(467752)	14.0	183.14794	202.45373	208.46820	10.73601	0.0424259	5.2469712378095
(467753)	17.2	269.65497	315.91540	23.42409	14.21703	0.1313790	2.5644339378095
(467754)	16.8	192.48453	209.81438	211.59872	32.90488	0.2443122	2.6419267378095
(467755)	16.2	122.14231	223.75540	235.61830	11.44758	0.1799618	2.7720616378095
(467756)	17.4	191.76127	1.70408	51.55543	10.02310	0.1129297	2.6251778378096
(467757)	17.1	175.68226	19.65808	45.92603	15.85973	0.1151343	2.6482007378096
(467758)	16.4	344.32300	207.83379	50.90430	15.78761	0.0606005	2.6559543378096
(467759)	16.4	230.18524	279.96341	48.64241	12.57680	0.1015470	2.7606288378097
(467760)	17.8	152.00266	312.97464	88.81136	15.67724	0.2382375	1.9754924378097
(467761)	17.1	251.48324	313.16932	41.28564	9.46693	0.1222008	2.6220336378097
(467762)	16.8	341.00882	47.04013	229.12369	11.46716	0.1552399	2.5914116378097
(467763)	16.6	29.73575	108.30835	53.14469	12.59253	0.0598405	2.8715816378097
(467764)	16.9	102.16009	222.70823	254.65398	4.10422	0.1285004	2.7972832378098
(467765)	17.6	103.77176	236.05389	241.95228	3.90342	0.1214779	2.7670129378098
(467766)	17.0	246.94666	330.28117	30.63045	8.13674	0.2052943	2.6013780378098
(467767)	18.2	221.67087	164.43643	227.06911	19.31064	0.0760815	1.8902693378098
(467768)	17.8	254.98736	305.11251	54.98036	8.21145	0.2019425	2.5553524378099
(467769)	17.6	305.74340	82.94479	244.97767	15.72415	0.1066029	1.8595432378099
(467770)	16.6	346.58251	42.89777	216.28813	8.87153	0.0976358	2.6705705378099
(467771)	17.3	270.01582	331.35002	27.00623	5.00548	0.2180343	2.5620178378100
(467772)	15.8	109.03108	211.95019	255.47575	24.47739	0.1276672	2.7947965378100
(467773)	16.9	323.14540	207.11054	56.43225	6.96964	0.0489349	2.7560429378100
(467774)	15.9	82.13343	198.77762	278.24717	15.10087	0.2925838	3.0458665378100
(467775)	16.9	173.29061	17.22652	54.00683	5.05433	0.0778519	2.6673614378101
(467776)	17.0	206.35973	317.13483	68.55079	9.91278	0.1550376	2.7094204378101
(467777)	14.0	239.72611	304.60070	60.72131	23.02903	0.1222866	5.2030555378101
(467778)	16.2	303.23390	231.40211	80.63206	11.38109	0.1421801	2.6484257378102
(467779)	13.2	283.46804	87.22437	238.29696	16.94090	0.0132477	5.1181013378102
(467780)	16.8	74.69549	95.44295	57.04729	13.76449	0.1507030	2.7841280378102
(467781)	17.5	197.25685	180.47646	220.59783	4.88957	0.0697522	2.6514061378102
(467782)	17.2	282.49827	303.34219	26.91846	10.50948	0.2081643	2.5849970378103
(467783)	13.9	242.60122	243.96178	118.63200	7.40213	0.1427768	5.2390515378103
(467784)	17.0	265.69119	70.73227	293.46899	2.68285	0.2443750	2.5676631378103
(467785)	17.5	305.00519	4.67481	302.92106	1.85253	0.1352006	2.6062670378103
(467786)	17.3	105.91900	72.25665	47.90782	4.31584	0.1307038	2.7857550378104
(467787)	16.6	110.59406	185.64201	251.07989	10.88710	0.0339009	2.9436294378104
(467788)	16.7	131.68137	24.45097	80.60766	13.88697	0.1208012	2.7754671378104
(467789)	17.1	183.45499	343.48942	75.31288	7.94684	0.0639440	2.7261815378104
(467790)	17.7	64.38628	319.75155	230.65055	19.06901	0.0305483	1.9181526378105

(467791)	16.8	163.94710	198.69696	233.54194	6.50579	0.1567453	2.7670153378105
(467792)	16.1	300.36159	161.74940	91.49420	10.80329	0.0472271	3.0425820378105
(467793)	16.7	276.34887	171.13882	150.99689	6.00575	0.0801606	2.7120198378105
(467794)	17.7	306.99076	16.13578	68.09252	6.42389	0.2047552	2.3405519378106
(467795)	16.9	188.07939	320.09938	84.70867	7.11137	0.0929952	2.7894515378106
(467796)	16.9	263.57031	281.63371	79.78663	9.62694	0.2495552	2.5944578378106
(467797)	16.1	17.05476	298.02466	257.05616	6.86628	0.1396154	3.0579982378106
(467798)	17.3	271.11990	277.58271	85.92095	5.03208	0.3335915	2.5555283378107
(467799)	17.6	60.36730	83.61036	118.34121	23.55782	0.0686423	1.9611227378107
(467800)	17.0	123.33136	195.10985	271.94702	18.70808	0.0720762	1.9657448378107
(467801)	13.5	239.02860	60.90471	292.35623	13.71356	0.0622646	5.2273846378107
(467802)	16.2	62.82112	113.97083	73.47294	11.50801	0.0120082	3.1413283378108
(467803)	16.0	335.78697	231.28155	49.34776	19.90253	0.0570356	3.1441756378108
(467804)	15.5	35.10255	330.99927	277.10334	14.04764	0.2470436	3.0979555378108
(467805)	15.9	321.05982	70.07814	231.28608	12.62209	0.1002245	3.2022636378108
(467806)	17.1	175.53077	27.35993	28.14691	5.19814	0.1201084	2.7102386378108
(467807)	16.6	68.42164	11.93713	161.51408	13.44281	0.0466670	3.0478236378109
(467808)	16.5	32.32555	61.94955	157.44025	8.97848	0.1746994	3.0751811378109
(467809)	16.8	80.69044	121.37748	20.58093	3.52844	0.1583001	3.1096854378109
(467810)	16.7	154.66705	283.52767	137.59873	6.25917	0.1634342	2.9972490378109
(467811)	16.6	73.71823	161.54154	349.12510	8.58135	0.0478464	3.0573514378110
(467812)	16.3	70.46322	3.12776	145.27865	12.57549	0.0822315	3.0729525378110
(467813)	17.0	42.94270	149.12783	41.17638	1.21009	0.1289038	3.1155953378110
(467814)	16.5	24.52517	57.11242	172.80040	22.47904	0.2264078	3.1443169378110
(467815)	16.7	32.92090	20.38355	195.19939	17.41691	0.1335781	3.1437798378111
(467816)	16.2	174.75706	231.56166	180.62267	11.41761	0.1224734	3.0842220378111
(467817)	16.3	76.66302	137.29783	8.18086	16.97612	0.1574282	3.1363981378111
(467818)	16.8	86.50301	177.79376	293.31621	13.61647	0.1574959	3.0426182378111
(467819)	16.7	67.79146	322.06206	189.24662	10.19903	0.1823578	3.1391416378111
(467820)	16.2	302.68835	229.34380	71.32639	11.49922	0.0544709	3.3538302378112
(467821)	15.9	312.01804	167.35660	125.41823	10.08478	0.0858202	3.0034072378112
(467822)	16.1	334.13852	28.36598	213.52119	15.42157	0.0298789	3.1689309378112
(467823)	16.5	359.56187	164.25597	103.53957	29.71733	0.1797319	3.1785538378112
(467824)	17.1	269.75313	166.49274	166.61007	24.06897	0.2238863	2.2787314378113
(467825)	17.6	251.84477	53.49202	288.41386	10.13172	0.1886952	2.2627012378113
(467826)	17.5	245.81634	135.71720	227.16662	10.95561	0.1742112	2.3344124378113
(467827)	17.1	359.33976	104.78995	164.87852	26.24768	0.2692742	3.2346554378113
(467828)	16.6	26.21827	339.76871	225.75344	10.88245	0.1625325	3.3098936378114
(467829)	17.9	232.63975	216.00201	155.00034	4.28637	0.1194638	2.2865511378114
(467830)	17.8	294.34997	184.34726	152.32774	8.30064	0.2132233	2.2194962378114
(467831)	17.0	244.68321	146.05680	226.05571	6.20789	0.1314975	2.2702091378114
(467832)	17.9	338.28543	278.49949	12.46839	4.35244	0.1526241	2.2212378378115
(467833)	18.3	330.30576	34.68097	271.97293	4.02757	0.2741251	2.1805884378115
(467834)	18.3	335.90136	237.39209	56.55610	3.46397	0.1582069	2.2239677378115
(467835)	20.8	0.71120	101.71738	193.19248	26.48381	0.2421085	1.6132193378115
(467836)	17.6	282.66492	337.65601	13.02877	5.28913	0.1795499	2.2446729378115
(467837)	17.4	92.66692	284.06898	233.70246	6.82181	0.0428037	2.3295998378116
(467838)	17.9	345.61624	225.28155	19.31078	7.06033	0.0705482	2.3535326378116
(467839)	18.2	223.11285	181.26907	205.35532	3.86440	0.1494786	2.3080386378116
(467840)	18.0	278.40405	246.27920	109.80694	1.09616	0.2479253	2.2458130378116
(467841)	18.0	356.26699	4.06420	262.84316	1.44349	0.1342360	2.2558425378117
(467842)	17.6	279.73053	251.75019	81.45798	3.45992	0.1765122	2.2989528378117
(467843)	17.6	286.96605	170.70687	172.27325	3.01947	0.2012848	2.2569678378117
(467844)	17.3	190.56692	13.96751	37.09900	12.72646	0.1295242	2.3987217378118
(467845)	16.7	286.41749	275.23589	52.59864	22.97481	0.2916127	2.2869536378118
(467846)	17.3	65.78868	66.44271	34.24400	12.88797	0.2681475	2.7236903378118
(467847)	18.1	294.56784	65.07943	253.36078	6.45966	0.0859565	2.3136753378118
(467848)	18.2	284.18727	148.11983	192.20418	6.36398	0.1325388	2.3079597378119
(467849)	18.3	293.94503	270.26648	69.36185	3.12036	0.2374819	2.2557242378119
(467850)	17.8	320.83203	240.63375	83.89116	6.10994	0.1941920	2.2377022378119
(467851)	17.8	149.48652	19.42251	64.44701	7.04023	0.1213992	2.4326702378119
(467852)	13.6	161.97050	338.47346	86.67650	12.37520	0.0469896	5.3265765378120
(467853)	17.3	244.67630	93.47754	270.36834	8.89240	0.1594598	2.3609906378120
(467854)	14.3	169.94209	8.76864	53.23306	9.64813	0.0740122	5.1554415378120
(467855)	13.9	178.39015	193.21362	223.47305	8.30074	0.0509146	5.2053303378120
(467856)	13.9	301.37434	221.92467	69.89339	19.34023	0.0556142	5.2601047378120
(467857)	17.2	19.05073	317.76519	248.85666	11.27292	0.1329128	2.5431471378121
(467858)	13.9	329.38630	200.78106	70.47750	18.71302	0.0683236	5.2240928378121
(467859)	12.7	140.51546	228.72059	237.14339	31.93506	0.0418667	5.2227759378121
(467860)	16.7	359.37129	292.22900	310.00290	12.98976	0.1781980	2.5755856378121
(467861)	17.5	132.98623	23.37916	68.11546	5.44042	0.1898986	2.6032148378122
(467862)	17.6	99.64058	83.70379	51.10426	2.83730	0.1457548	2.6132190378122
(467863)	17.3	136.27925	243.99104	209.71406	3.38392	0.1674491	2.5892549378122
(467864)	17.8	118.36884	60.86054	54.51364	4.70650	0.1308064	2.5901201378122
(467865)	18.0	75.85760	75.81173	64.66778	4.37873	0.2157392	2.7060591378123
(467866)	17.7	65.72797	320.34554	196.92716	3.32265	0.1281333	2.7304943378123
(467867)	17.7	315.17786	14.57923	280.01794	2.82097	0.0587025	2.6651073378123
(467868)	17.2	130.33126	174.80211	289.23292	4.44800	0.1236368	2.6173371378123
(467869)	17.2	5.84701	108.19583	125.11438	5.92452	0.1403846	2.6621334378124
(467870)	17.5	116.52080	301.15020	149.16559	12.68067	0.1791262	2.7144002378124
(467871)	17.3	299.53025	332.75346	314.88336	11.14722	0.0380819	2.6584374378124
(467872)	16.6	103.40673	14.35264	137.53233	22.56994	0.0320526	2.6144062378124
(467873)	17.1	279.29998	40.75223	284.46609	5.53043	0.1467403	2.5986470378125
(467874)	17.6	349.65557	314.65765	321.53113	0.52708	0.1690604	2.6059293378125
(467875)	17.2	146.21748	343.09998	129.44088	12.82159	0.0303727	2.5438602378125
(467876)	17.5	258.58909	82.52560	245.75327	4.02685	0.0434750	2.7071377378125
(467877)	17.2	102.46682	321.57229	167.45833	5.98442	0.0596087	2.6969241378126
(467878)	17.7	53.37676	342.81221	158.84063	23.42353	0.0743441	1.8800458378126
(467879)	16.7	77.49819	114.06482	20.24701	12.28962	0.1315213	2.8616254378126
(467880)	17.3	91.08470	330.07917	159.60344	8.42607	0.1702732	2.7949334378126
(467881)	17.2	282.30686	180.34212	143.08394	10.65283	0.0943137	2.6348604378126
(467882)	17.5	143.64481	144.25682	298.00707	2.63140	0.0599472	2.7595205378127
(467883)	17.1	10.49073	231.34390	358.57873	4.96432	0.1034929	2.8006250378127
(467884)	17.3	11.68265	279.03923	302.25849	3.57016	0.1399443	2.7510780378127
(467885)	16.2	35.43311	135.34818	41.37307	9.20758	0.0272392	2.9084193378127
(467886)	16.6	37.60896	194.80743	2.82345	5.66631	0.0512437	2.7734275378128
(467887)	16.6	49.80247	113.30656	48.82554	10.94722	0.0659135	2.9744685378128
(467888)	16.4	358.87618	137.79593	96.35625	9.55240	0.1481657	2.9067555378128
(467889)	17.1	349.34262	227.73639	30.98580	4.49524	0.0179164	2.7907467378128
(467890)	16.2	273.03445	282.16715	6.88118	15.94954	0.1964069	3.1673702378129
(467891)	16.7	353.38611	114.33951	163.88772	9.15969	0.1931376	2.8040303378129
(467892)	16.8	22.77689	182.68059	29.84403	8.82963	0.1490483	2.9173440378129
(467893)	16.2	312.04478	175.54817	74.23565	11.03413	0.1128315	3.1417872378129
(467894)	16.4	294.89172	187.19864	114.68788	10.41906	0.2143718	3.0815664378130

(467895)	16.4	11.62348	151.64963	60.19391	10.80261	0.1701744	2.9867426378130
(467896)	16.4	3.98833	105.18221	127.26824	11.48089	0.1879976	3.0103602378130
(467897)	16.7	326.20462	194.14720	92.17039	8.52496	0.1833471	2.9845465378130
(467898)	16.8	122.34558	34.50112	76.54504	12.13368	0.0374042	2.8856356378131
(467899)	15.3	273.71707	213.12920	87.93836	22.93673	0.0484127	3.1689423378131
(467900)	18.2	205.19889	354.89466	45.26536	15.19883	0.2019573	1.8492933378131
(467901)	17.7	252.04706	278.58437	89.42227	23.03690	0.1130150	1.8709013378132
(467902)	16.8	317.21745	138.66770	189.27049	11.72314	0.2031264	2.7587464378132
(467903)	17.2	359.17271	20.24385	205.40089	6.24567	0.1743852	2.9400239378132
(467904)	15.5	84.86882	310.44800	165.43146	18.29794	0.1028174	3.1594387378132
(467905)	16.3	192.40092	330.96416	87.04517	14.20715	0.1391725	2.7851943378133
(467906)	16.6	313.32016	126.93338	142.95195	12.02363	0.0869078	3.0816682378133
(467907)	15.8	313.63410	51.94637	227.34541	21.33873	0.1158083	3.0995278378133
(467908)	15.9	312.19004	162.80093	106.76319	24.48028	0.0918725	3.1987533378133
(467909)	16.5	41.54761	103.61866	69.40423	12.84901	0.0617794	3.0911042378133
(467910)	16.4	268.94572	128.28041	205.62192	11.96072	0.1311653	3.0678045378134
(467911)	17.0	338.42233	185.60845	95.34501	3.26340	0.1991651	2.9739718378134
(467912)	16.3	318.75828	183.19651	76.31762	11.38767	0.0653875	3.1580772378134
(467913)	16.0	12.49540	124.64923	94.23822	17.15385	0.1659427	3.0388295378134
(467914)	17.9	338.66609	31.77079	249.49792	23.88142	0.0875726	1.8843847378135
(467915)	16.2	43.78261	17.98736	149.16737	15.84270	0.0733309	3.2087765378135
(467916)	17.6	230.07757	65.91123	295.58448	15.99377	0.1004355	2.0023163378135
(467917)	20.0	112.66035	320.85073	144.97850	15.33760	0.5695815	1.2453432378135
(467918)	15.4	357.78421	285.52424	306.50888	24.52628	0.2005675	3.2155174378136
(467919)	16.9	13.62436	75.45353	171.03070	10.04935	0.1711536	3.1617288378136
(467920)	18.4	286.44592	143.19034	207.44399	20.85387	0.0729834	1.9789474378136
(467921)	17.9	321.53477	113.23878	208.00439	21.89335	0.0918219	1.9557076378136
(467922)	15.0	232.13922	184.70663	191.80504	3.49294	0.1809805	4.0143641378137
(467923)	17.4	151.53639	291.54306	115.26155	24.24328	0.3127558	2.2795150378137
(467924)	17.1	38.75618	53.68893	108.94390	11.68323	0.0944206	2.4238739378137
(467925)	17.7	359.21224	143.25552	97.09598	6.30175	0.1762475	2.2971521378138
(467926)	13.5	221.87905	287.95419	91.27177	18.53353	0.0210560	5.3150298378138
(467927)	14.1	224.36246	217.69341	164.86071	10.65889	0.0927755	5.2227285378138
(467928)	17.2	84.72295	84.47751	65.54382	22.94272	0.2575231	2.3207298378138
(467929)	16.3	53.02815	304.76483	155.37075	31.71765	0.2532430	2.6420016378138
(467930)	17.9	67.18957	228.80668	277.18831	3.98338	0.1354267	2.4145389378139
(467931)	17.6	112.57489	160.52195	271.16742	5.91662	0.1001306	2.4264519378139
(467932)	17.7	27.79614	257.21319	327.30488	4.56165	0.1767470	2.3110266378139
(467933)	18.3	80.35731	179.71277	317.43780	4.79773	0.1677057	2.3788765378139
(467934)	18.4	84.03366	199.32618	306.37650	1.57525	0.1800533	2.3646977378140
(467935)	17.5	52.39994	142.23657	49.47274	3.20243	0.1771545	2.3762121378140
(467936)	18.2	144.88776	337.52077	108.98273	3.10322	0.1292252	2.3010574378140
(467937)	17.7	71.05002	242.51227	284.30646	4.32734	0.0768366	2.3388505378141
(467938)	18.2	50.75151	317.06407	224.14946	1.31685	0.1111422	2.3596989378141
(467939)	18.5	80.96066	135.11914	11.23908	0.53484	0.1573997	2.3643160378141
(467940)	18.3	51.57990	254.49366	297.82229	1.60197	0.1253150	2.3427908378141
(467941)	18.1	80.16192	15.25403	152.53828	4.02593	0.1457895	2.3282977378141
(467942)	18.2	96.97866	137.21720	11.26345	1.56444	0.1234486	2.3520680378142
(467943)	18.0	49.43490	2.72436	175.07032	2.52501	0.1077533	2.4109236378142
(467944)	18.0	150.13683	71.69413	32.08053	6.64481	0.0630586	2.3340939378142
(467945)	18.3	112.32413	4.86718	112.08777	2.14047	0.1312536	2.3722863378142
(467946)	18.5	27.50451	78.30662	150.10726	6.99399	0.0422023	2.2719459378143
(467947)	18.6	18.64151	284.59491	307.13999	1.75420	0.1703932	2.3445634378143
(467948)	17.4	91.66396	156.44670	345.49859	9.23191	0.1201430	2.3681538378143
(467949)	18.3	115.36550	285.99703	183.31362	2.17347	0.1429296	2.3761790378143
(467950)	17.9	212.50361	231.38403	165.81163	6.31231	0.0727370	2.3455891378144
(467951)	17.7	178.07078	309.14458	111.72957	2.68568	0.1904392	2.3326640378144
(467952)	17.7	45.20810	297.69151	265.49822	6.11929	0.0518142	2.3950041378144
(467953)	17.4	355.03409	154.14307	116.29632	3.63955	0.1979007	2.4427792378144
(467954)	18.5	92.72822	94.28726	40.37067	2.93575	0.1413061	2.4169872378144
(467955)	17.4	302.23546	227.33939	85.77849	7.90586	0.1573613	2.4764961378145
(467956)	17.2	316.03659	38.59040	224.52397	13.76566	0.0800523	2.6747967378145
(467957)	17.0	276.07841	214.19488	94.55373	12.20986	0.0719356	2.6913211378145
(467958)	17.2	319.77763	186.07252	85.18425	10.11592	0.1592548	2.6591925378145
(467959)	16.8	286.36055	259.36380	38.86908	13.33200	0.1642912	2.6719723378146
(467960)	16.9	342.46987	174.21069	73.61917	8.24980	0.1853670	2.6162064378146
(467961)	16.6	283.90616	204.27780	114.64249	13.53625	0.1834903	2.6650844378146
(467962)	17.5	78.84822	106.96881	53.14172	6.95125	0.0467988	2.5550192378146
(467963)	18.6	347.83639	117.95173	225.06487	14.31397	0.6159354	2.4779531378146
(467964)	17.3	345.23298	162.35159	67.01064	10.71128	0.2095481	2.6710184378147
(467965)	18.0	346.04558	206.88963	57.51260	5.17554	0.1083130	2.5622520378147
(467966)	17.2	318.39172	178.18397	126.02773	5.95911	0.1720552	2.5770911378147
(467967)	16.8	341.79407	64.98104	227.77222	38.90674	0.1681896	2.5441908378147
(467968)	17.4	329.07573	107.84255	197.57397	5.74213	0.2342608	2.5459085378148
(467969)	16.5	165.18358	308.06291	119.15993	22.78475	0.0338553	2.6387045378148
(467970)	17.2	350.44771	168.31553	72.48684	5.97758	0.1368405	2.6643226378148
(467971)	16.8	356.76349	115.01493	150.29975	7.77336	0.1691696	2.5618839378148
(467972)	16.6	277.81603	225.52203	103.45042	11.73397	0.1379597	2.6814916378149
(467973)	16.1	321.82433	109.89572	208.85199	11.31729	0.2148884	2.5457626378149
(467974)	16.5	273.95476	68.38102	261.21778	11.49407	0.1734408	2.7194570378149
(467975)	16.3	315.49655	172.42981	116.44380	24.75511	0.1093786	2.6491281378149
(467976)	15.9	158.58147	277.86353	104.12631	13.12371	0.0840708	3.0195084378150
(467977)	17.0	51.39068	329.29180	217.63545	13.42747	0.1913865	2.5444240378150
(467978)	17.2	332.34156	103.58331	176.92182	12.35773	0.1010670	2.8750094378150
(467979)	16.2	270.50903	169.83955	155.36517	15.89696	0.1407032	3.0048036378151
(467980)	17.7	353.94856	140.82262	170.58772	11.66462	0.1883418	2.6244548378151
(467981)	15.7	254.80180	22.48669	315.32719	16.57295	0.2580695	3.1337823378151
(467982)	16.0	223.19837	240.34909	118.06998	10.65839	0.1224716	3.1771804378151
(467983)	16.7	357.19426	81.18256	230.14828	12.14649	0.2311686	2.6217984378151
(467984)	16.9	338.06814	226.99557	101.14248	7.47273	0.4288860	2.6370002378152
(467985)	16.4	299.50683	77.82036	248.64933	8.01006	0.1358320	3.0477264378152
(467986)	16.3	30.72353	12.52698	205.31647	7.87792	0.0651078	3.0872071378152
(467987)	16.5	100.02377	233.67400	264.55100	8.21080	0.0315606	3.1178970378152
(467988)	16.6	306.04223	247.91578	62.55145	2.84443	0.1692522	3.0992078378153
(467989)	15.9	266.52030	109.04472	237.51073	9.25374	0.0892411	3.1664948378153
(467990)	16.6	315.22938	299.68185	7.86427	8.78865	0.1740470	3.0549759378153
(467991)	16.2	313.13642	92.12216	214.22453	9.90576	0.1095195	3.1350311378153
(467992)	16.7	278.92049	270.29710	75.17389	1.18787	0.2746665	3.0976701378154
(467993)	16.5	286.17433	270.47753	56.42738	8.69223	0.1415790	3.1793942378154
(467994)	15.8	296.14144	139.72855	188.28308	15.35282	0.0768114	3.1421480378154
(467995)	18.0	150.85036	40.19820	20.05642	21.65851	0.0509520	1.8657832378154
(467996)	16.4	314.10755	108.42906	198.26301	17.74871	0.0758488	3.1346645378155
(467997)	16.6	291.48357	238.73486	99.08339	0.76505	0.2191639	3.0283199378155
(467998)	16.3	271.88459	301.88315	37.34118	7.38886	0.1538156	3.1755193378155

(467999)	16.0	330.72603	222.85980	52.10373	11.13079	0.0716224	3.3916375378155
(468000)	15.9	288.81054	104.05913	231.33554	25.13583	0.2273421	3.1774841378156
(468001)	13.1	151.83831	10.68234	52.64793	37.28346	0.0203849	5.1562163378156
(468002)	16.7	316.30950	247.35190	83.27052	9.70329	0.3605989	2.6806158378156
(468003)	16.2	279.53342	285.28827	53.44442	10.52590	0.1698904	3.1714439378157
(468004)	19.3	323.40111	255.47664	68.30846	19.06230	0.2346815	1.6899171378157
(468005)	21.1	91.75360	76.70057	97.88035	3.71857	0.3658527	1.3230797378157
(468006)	16.0	311.70336	64.50402	249.57837	15.20854	0.2099420	3.1250029378158
(468007)	17.9	118.01002	76.88462	44.20110	22.03773	0.1157545	1.8906990378158
(468008)	17.6	89.22837	200.56270	302.16480	17.57947	0.0749507	1.9381333378158
(468009)	14.2	150.24168	174.72973	263.31496	3.15622	0.0766042	5.2696955378158
(468010)	17.9	57.13882	81.50390	117.90238	23.55505	0.0675150	1.8856394378159
(468011)	13.5	123.58465	348.07365	134.32770	27.80266	0.0796741	5.1529035378159
(468012)	14.4	115.04668	281.79475	181.12791	2.27500	0.0521379	5.2613006378159
(468013)	14.1	277.78799	80.55484	234.68761	12.29125	0.0122043	5.1611467378159
(468014)	13.8	150.45238	306.62332	126.56602	7.72927	0.0224175	5.2343197378160
(468015)	14.1	155.91705	344.97418	81.64212	8.65014	0.0881248	5.2712804378160
(468016)	13.7	219.77446	270.27946	105.91519	9.15605	0.0358170	5.2176307378160
(468017)	17.9	54.55585	112.48207	86.90177	24.76072	0.0382716	1.9138828378160
(468018)	18.6	344.55132	134.47015	159.97088	22.59268	0.1019105	1.8769654378161
(468019)	18.0	17.85557	78.15626	163.04026	23.64724	0.0269039	1.9156144378161
(468020)	17.9	42.28197	112.73064	80.89853	24.91103	0.0969782	1.9960177378161
(468021)	18.0	183.10030	245.94289	163.85583	23.10709	0.1135604	1.9509248378162
(468022)	17.9	224.20776	259.10973	138.10280	23.94357	0.0963835	1.9462615378162
(468023)	16.3	199.66249	112.40060	249.09793	10.85605	0.3067187	2.5312580378162
(468024)	18.5	344.99873	103.28048	183.54666	4.09537	0.1604569	2.2272197378162
(468025)	17.2	306.51496	38.56362	290.74004	11.29373	0.2988527	2.2811671378162
(468026)	18.4	305.98697	128.57987	205.07190	2.25148	0.1782517	2.2276848378163
(468027)	17.7	310.65049	49.07254	258.10434	8.44069	0.2446021	2.3000599378163
(468028)	17.8	50.58203	350.75325	217.65457	6.03254	0.0562365	2.3481981378163
(468029)	18.0	6.84477	331.30549	280.89528	2.22548	0.1939172	2.3152158378164
(468030)	17.2	276.59513	1.40524	341.54299	6.22957	0.1375663	2.4228822378164
(468031)	17.9	351.21995	326.40371	281.59231	7.91602	0.0598240	2.4642002378164
(468032)	18.2	8.52995	22.43873	216.47346	2.09765	0.1531819	2.4090895378164
(468033)	16.5	181.96844	144.83688	258.12997	11.81550	0.1828067	2.7723042378165
(468034)	16.1	156.19413	93.31301	311.82489	8.49936	0.2312175	3.1607172378165
(468035)	18.7	343.11115	113.02694	165.41467	6.87491	0.1741117	2.2719362378165
(468036)	18.5	336.83137	99.66184	189.51694	3.47644	0.1989213	2.2766369378166
(468037)	17.2	84.16082	23.62003	144.20852	8.45829	0.0627807	2.4678014378166
(468038)	17.3	256.47326	208.11307	160.07446	7.92589	0.0903327	2.4170652378166
(468039)	17.8	347.36609	88.98907	175.80240	6.91336	0.1723755	2.3853589378166
(468040)	17.9	314.03155	64.53918	223.28186	3.44183	0.1894343	2.4105441378167
(468041)	18.0	326.87761	298.45752	0.55068	5.16375	0.1811744	2.3133364378167
(468042)	17.0	270.51347	342.14159	328.38964	13.91494	0.0104871	2.6398810378167
(468043)	18.4	333.37707	137.37151	150.14589	4.01692	0.2135929	2.3010425378167
(468044)	17.8	302.85797	142.93354	154.04941	5.20799	0.1948192	2.4044876378168
(468045)	17.9	291.21513	159.90212	182.34614	4.81973	0.2761790	2.2821614378168
(468046)	17.9	313.70365	186.27836	136.51268	4.22648	0.2303787	2.3335688378168
(468047)	17.9	303.39574	30.76774	282.25222	6.42321	0.1092211	2.3916830378168
(468048)	17.3	296.67869	73.38003	255.97667	6.10859	0.1309509	2.3926003378169
(468049)	16.8	211.61876	178.12191	202.87368	9.27291	0.1583938	2.8084759378169
(468050)	17.2	266.28231	329.16750	32.87793	5.82544	0.2621092	2.4325493378169
(468051)	15.9	191.07356	291.33808	126.48383	15.87703	0.1998108	2.7912943378169
(468052)	18.1	333.12566	352.96643	304.49126	0.98719	0.1886530	2.3280344378170
(468053)	16.5	198.46844	195.63455	217.18638	7.85987	0.1323595	2.7187914378170
(468054)	17.6	200.08939	37.88918	0.14621	1.72808	0.0912103	2.6567252378170
(468055)	17.5	183.61660	196.38683	206.94316	3.43449	0.0998401	2.7537901378170
(468056)	18.3	7.17135	59.18759	189.95846	1.97733	0.1668865	2.3732932378171
(468057)	17.0	199.58592	181.17968	225.17867	6.90544	0.0835440	2.7122072378171
(468058)	18.0	331.37379	303.01260	351.05856	4.64080	0.2026388	2.3924325378171
(468059)	19.1	313.61430	334.90523	345.26769	1.10431	0.2030113	2.3535400378171
(468060)	17.7	292.21785	142.18527	197.04006	5.72911	0.1420238	2.4190926378171
(468061)	17.9	317.63953	257.14933	55.76040	4.48146	0.1920078	2.3923631378172
(468062)	16.4	165.50102	73.25635	334.41324	8.61277	0.1233013	3.0528286378172
(468063)	17.9	299.19531	255.54889	73.81247	2.34667	0.2027903	2.3941893378172
(468064)	18.0	273.83256	343.33170	358.63646	0.91965	0.2066220	2.4139608378172
(468065)	17.6	279.61849	182.28549	164.96071	1.50263	0.1947089	2.4255771378173
(468066)	18.0	292.78592	135.12796	206.03795	4.37180	0.1724301	2.3217904378173
(468067)	17.5	264.12928	228.92890	129.73393	4.78519	0.1820343	2.5827070378173
(468068)	17.9	283.28299	25.59862	318.66507	0.44582	0.1928770	2.4531700378173
(468069)	15.7	200.01322	318.49348	26.52549	16.33087	0.1279615	3.1663611378174
(468070)	17.9	321.85473	296.81494	355.50437	2.86743	0.1760222	2.4087903378174
(468071)	17.9	328.84364	225.03759	59.89196	3.46969	0.2294621	2.3941220378174
(468072)	18.0	298.54004	266.98140	48.09500	4.22234	0.0731742	2.5677089378174
(468073)	16.5	236.84466	331.95525	48.80484	14.16974	0.1785490	2.6372915378175
(468074)	17.4	290.05110	310.38872	32.30514	3.54534	0.2301072	2.4180405378175
(468075)	17.9	318.90326	239.37660	79.77726	2.35355	0.1924607	2.3617247378175
(468076)	16.1	35.79173	341.18071	235.32417	13.58903	0.1295064	2.5523484378176
(468077)	17.8	332.36538	123.25760	196.29472	21.29223	0.1953126	2.2773444378176
(468078)	17.8	310.69596	162.56717	150.68788	1.49698	0.1891986	2.4214913378176
(468079)	16.7	197.10907	5.98146	27.74787	11.11127	0.1095535	2.9960405378176
(468080)	17.3	283.19597	294.57152	19.15109	6.31327	0.0155419	2.7868464378177
(468081)	17.9	327.45802	291.38517	7.39370	1.06498	0.2362446	2.4404724378177
(468082)	18.0	324.54762	93.79867	212.80388	1.90421	0.2324086	2.3876978378177
(468083)	16.6	297.84040	286.86609	4.54084	14.00937	0.1134024	2.7862386378177
(468084)	17.2	249.18786	306.62734	61.50346	9.94488	0.1810039	2.5688620378178
(468085)	17.2	286.59247	112.59422	223.48942	13.93691	0.1635990	2.5676555378178
(468086)	18.1	324.29606	26.06015	288.07438	2.18396	0.2449674	2.3227442378178
(468087)	16.6	171.08645	230.91422	183.60554	4.99980	0.1307676	3.1024670378178
(468088)	15.7	84.80264	268.28648	242.64145	10.55739	0.0615525	3.0997013378179
(468089)	16.2	119.61543	239.69395	215.07199	15.10178	0.0621048	3.1353428378179
(468090)	17.0	259.16709	319.77400	41.44934	6.07713	0.2408246	2.6347370378179
(468091)	17.9	308.05032	299.44501	30.08354	2.15221	0.2485359	2.3748979378179
(468092)	15.9	159.98748	31.25304	47.49198	9.27770	0.0765797	3.0302426378180
(468093)	16.8	314.11900	79.80296	191.50875	9.67563	0.0468198	2.9799968378180
(468094)	17.1	297.98531	285.96335	35.13735	14.48380	0.2217898	2.4592346378180
(468095)	16.0	131.60721	215.32938	240.90465	26.37968	0.1669955	3.1886146378180
(468096)	15.6	189.72812	322.38550	65.76932	24.00044	0.0226077	3.1046040378181
(468097)	17.2	262.95169	231.49618	107.36896	10.55254	0.0911174	2.7536715378181
(468098)	17.2	249.36200	153.67818	223.90442	31.70826	0.1468502	2.5953732378181
(468099)	17.5	296.43667	217.16149	122.55179	8.85112	0.2839485	2.4337720378181
(468100)	16.3	211.36973	291.11397	116.48454	16.21231	0.1411300	2.8001145378182
(468101)	16.6	222.35770	283.28872	115.66176	12.26551	0.0797445	2.6952100378182
(468102)	15.6	196.45318	291.10978	94.21849	16.00438	0.2229062	3.1613811378182

(468103)	16.8	274.06815	297.85379	50.26996	9.27021	0.1932918	2.6382749378182
(468104)	16.4	147.91938	257.81816	188.19270	9.51094	0.0877929	3.1868691378183
(468105)	17.7	334.76230	244.74503	225.45636	20.24892	0.0464457	1.8811106378183
(468106)	15.9	176.85769	312.71297	113.51341	17.73457	0.2216775	3.1266842378183
(468107)	16.6	225.24848	67.96502	301.55570	4.41536	0.1408570	3.0255608378183
(468108)	16.0	205.08503	319.44531	70.05948	11.15274	0.0974194	3.1563749378184
(468109)	16.1	144.92139	19.37189	75.12103	10.22144	0.0866591	3.0891406378184
(468110)	15.5	223.50166	113.74385	259.35211	13.10824	0.0776000	3.1777791378184
(468111)	15.7	182.51863	8.88347	57.48121	12.78829	0.1104351	3.0917236378184
(468112)	16.3	3.51149	201.52304	55.85745	14.03011	0.0719623	2.7562386378185
(468113)	16.1	287.43968	51.57843	269.32637	7.98136	0.0812057	3.0598348378185
(468114)	16.9	276.26789	265.54464	78.04970	8.84702	0.3012771	2.6638905378185
(468115)	15.5	164.03326	6.69217	80.72602	22.69893	0.1097547	3.1393448378185
(468116)	15.9	227.46651	265.62311	72.33910	26.06861	0.2340678	3.1681195378186
(468117)	19.1	124.13156	355.00205	74.97984	21.76632	0.6380597	1.5464065378186
(468118)	13.8	148.39600	325.62582	134.03077	13.09028	0.0177554	5.1617020378186
(468119)	17.8	227.06786	278.40929	118.71231	21.97458	0.1247859	1.8665372378186
(468120)	16.8	76.72976	26.34652	62.43084	10.09184	0.2112237	2.7963363378187
(468121)	17.4	28.72220	317.96186	238.33037	6.83523	0.0507219	2.2294802378187
(468122)	17.1	96.24705	244.45054	220.50633	11.01153	0.2399153	2.6311280378187
(468123)	17.1	21.20108	151.98069	34.32173	9.93507	0.1521217	2.4752186378188
(468124)	16.8	128.75939	229.76084	206.67187	7.68788	0.1179732	2.5953158378188
(468125)	18.5	29.89137	12.87857	214.99944	20.29673	0.0576357	1.9358452378188
(468126)	17.1	61.76375	82.42790	75.44562	10.07179	0.1439030	2.6085307378188
(468127)	17.2	102.47258	43.61834	58.56245	6.90410	0.1016935	2.4696349378189
(468128)	16.5	43.83243	104.73636	57.36145	26.61165	0.2844553	3.1075113378189
(468129)	18.2	152.25146	60.37689	11.80969	1.32292	0.1844978	2.2286463378189
(468130)	17.7	127.45256	62.32013	49.34443	7.57801	0.0575461	2.2846020378190
(468131)	18.8	78.78390	270.04515	249.64964	2.10850	0.0367419	2.1308762378190
(468132)	18.2	203.93772	317.88438	86.24136	3.15233	0.1064367	2.1765504378190
(468133)	18.0	151.66751	58.63285	31.86027	4.43129	0.0507420	2.2085718378190
(468134)	17.1	73.09877	89.08643	57.00818	13.85648	0.1402645	2.6408401378191
(468135)	18.3	327.59575	63.41855	232.89606	22.15098	0.1478659	1.9174778378191
(468136)	18.2	125.98368	223.25386	240.86645	1.18221	0.1397793	2.3570729378191
(468137)	16.7	62.20392	140.91607	5.37453	14.01253	0.1073603	2.5590453378191
(468138)	18.1	120.76248	10.45159	99.20220	3.18093	0.1632836	2.3673361378192
(468139)	18.0	70.85752	205.18510	335.95230	2.04304	0.0587557	2.1486351378192
(468140)	16.4	108.70310	27.73367	24.00622	17.64665	0.1892665	3.0729654378192
(468141)	16.4	90.78294	237.00677	230.27522	21.17851	0.0680032	2.6323593378192
(468142)	17.8	119.29856	258.60582	194.05838	3.12286	0.1943923	2.6016427378193
(468143)	17.6	352.69600	212.13991	39.95295	4.73745	0.1560143	2.2133399378193
(468144)	17.7	149.19627	270.02921	165.39753	9.51852	0.1913931	2.3356956378193
(468145)	17.9	86.70945	77.82438	42.79652	13.53337	0.1697143	2.7021379378194
(468146)	16.0	314.17763	308.68522	282.58806	9.21018	0.0469034	3.0259653378194
(468147)	17.7	133.87657	46.74466	59.87937	3.81965	0.1297859	2.3210072378194
(468148)	17.9	148.93533	23.07747	61.40278	7.11003	0.0849671	2.3265487378194
(468149)	17.9	124.82502	264.88322	209.00758	5.79468	0.0498333	2.3287399378195
(468150)	17.9	117.01866	236.76609	232.58405	3.70690	0.1075453	2.4494744378195
(468151)	17.8	88.42656	323.36291	197.11755	3.23172	0.1510330	2.3673286378195
(468152)	18.5	317.39096	247.98587	46.63176	22.53552	0.1383200	1.9421165378195
(468153)	17.6	96.56566	269.42373	208.66398	4.86346	0.1500162	2.6016952378196
(468154)	17.4	357.50484	173.52729	64.91872	8.22906	0.0620106	2.2267403378196
(468155)	17.7	37.00860	61.25161	135.29465	2.91847	0.1611202	2.3415594378196
(468156)	16.0	97.17357	45.73454	62.52691	17.55046	0.1888861	3.1080284378197
(468157)	17.0	119.76601	40.77257	39.28374	7.01621	0.0968642	2.7985656378197
(468158)	16.8	75.60966	212.98732	299.48827	12.43422	0.1947821	2.6506406378197
(468159)	17.2	358.88055	143.87107	91.74300	13.58171	0.1262387	2.3310715378197
(468160)	18.2	254.49784	147.84078	201.63297	6.43756	0.1091533	2.1801729378198
(468161)	16.0	106.88096	311.70096	158.04375	15.27758	0.0790503	3.2327170378198
(468162)	16.5	56.98554	47.65931	147.30633	16.33959	0.1550337	2.8965210378198
(468163)	17.9	146.38584	283.96400	160.31076	5.21384	0.1833310	2.3275850378198
(468164)	17.4	120.33784	293.20523	169.23634	12.86989	0.2625811	2.5249327378199
(468165)	16.2	94.98237	333.76663	96.39697	19.46534	0.1918593	3.1070159378199
(468166)	17.8	173.82160	330.88502	85.76040	7.43574	0.0999949	2.3538982378199
(468167)	17.0	144.18027	52.27095	28.56036	12.98263	0.1276644	2.7472113378199
(468168)	17.9	80.20561	63.51454	100.46987	7.79686	0.0732027	2.3057402378199
(468169)	15.7	184.92113	264.94391	134.33713	25.00294	0.2017055	2.7951344378200
(468170)	15.9	143.63171	210.70519	233.39008	8.05101	0.0412653	3.0855513378200
(468171)	16.9	154.83448	295.27105	157.66617	17.68262	0.1765831	2.6608399378200
(468172)	16.4	127.42891	227.56947	240.31997	12.32840	0.1546904	2.5298385378201
(468173)	16.2	168.86523	128.02159	265.25636	12.40958	0.1013211	2.6099713378201
(468174)	17.1	80.08509	252.74534	256.04809	3.77519	0.1940492	2.6654991378201
(468175)	16.1	97.60618	356.56754	116.49185	20.48561	0.2140254	3.1603360378202
(468176)	16.7	136.14575	350.89411	91.97060	13.42228	0.1597610	2.6666533378202
(468177)	16.5	97.48645	341.53123	137.35766	8.78143	0.2124641	3.0836052378202
(468178)	15.7	186.07565	268.11492	114.88235	17.25788	0.1016998	3.1064276378202
(468179)	18.0	233.73114	334.71135	43.78889	4.97198	0.1855453	2.2023528378203
(468180)	16.6	81.46216	79.65675	85.66522	10.28287	0.0440377	2.6424463378203
(468181)	15.8	249.39775	274.11008	51.18656	13.40142	0.0605362	3.1661360378203
(468182)	16.6	159.63164	332.12088	89.19620	2.03225	0.1069167	2.8571729378203
(468183)	17.3	177.51602	327.62300	92.00007	6.07483	0.1011462	2.6207596378203
(468184)	16.7	150.90202	294.44105	150.44698	5.01287	0.0403653	2.7944616378204
(468185)	17.2	267.71883	295.16007	39.83287	2.32984	0.0568219	2.6663836378204
(468186)	16.7	179.80223	294.78914	114.80199	13.02690	0.0601121	2.9127766378204
(468187)	17.0	314.68864	235.12466	59.68614	4.87034	0.1738364	2.7555536378204
(468188)	15.8	101.62989	9.46117	115.76126	10.35737	0.0314959	3.1313045378205
(468189)	17.2	278.64738	308.91847	28.41984	2.78426	0.2037713	2.4655756378205
(468190)	17.3	350.92538	168.41618	103.12804	4.07567	0.0274156	2.5564749378205
(468191)	16.3	280.35652	222.02922	121.36431	5.72241	0.0773461	2.7084884378206
(468192)	15.9	217.90610	277.10865	107.87415	11.91031	0.1068600	3.0067966378206
(468193)	16.9	42.16724	178.68475	1.05366	2.29471	0.0240950	2.9670551378206
(468194)	17.2	215.81939	281.57393	98.67147	8.13059	0.1599482	2.5444596378206
(468195)	16.6	98.36717	40.82880	80.19245	6.40485	0.0963222	3.1047934378207
(468196)	16.2	300.67785	174.69181	152.80538	29.66205	0.0851083	2.5905304378207
(468197)	17.5	31.11058	183.16671	30.35294	1.73328	0.0199342	2.5822439378207
(468198)	16.0	30.63304	102.72943	120.33764	8.52561	0.0394891	3.0084738378207
(468199)	16.7	233.69144	23.41538	350.72787	5.58059	0.0703199	2.6885295378208
(468200)	16.9	102.91360	65.48353	69.95663	5.88631	0.1172962	2.7634162378208
(468201)	15.9	251.43241	208.14944	147.82976	12.12528	0.0174894	3.1201347378208
(468202)	16.3	134.70472	316.95122	156.22396	16.32523	0.0576922	3.0310237378208
(468203)	15.7	118.95443	348.80148	101.44888	28.91551	0.1295185	3.1483970378209
(468204)	16.6	85.20163	28.35856	114.70037	5.78101	0.1308804	3.1978247378209
(468205)	17.1	150.20655	73.66794	7.33075	5.84332	0.0454174	2.7940303378209
(468206)	17.8	140.05944	91.02753	11.17114	5.70354	0.0752395	2.6192209378209

(468207)	16.5	60.14669	356.59014	177.74874	5.23207	0.1138095	2.9731957378210
(468208)	17.4	343.18540	192.49680	105.73242	6.61341	0.1997015	2.3898046378210
(468209)	16.6	253.70936	259.02232	95.37183	3.05387	0.0926201	2.7202186378210
(468210)	16.9	61.17622	84.44142	103.54952	7.55708	0.0653864	2.8822931378210
(468211)	16.3	36.58940	91.59997	112.67395	14.13205	0.0679424	3.1257255378211
(468212)	16.0	304.16443	302.52977	350.44158	11.30631	0.0595021	3.1203089378211
(468213)	16.5	326.88628	151.36442	114.95334	2.87445	0.0459454	3.0961321378211
(468214)	16.1	310.18848	197.88906	108.24956	5.26969	0.1945896	2.6963477378211
(468215)	16.3	114.73627	133.33641	321.57376	8.15311	0.0775419	3.1792451378212
(468216)	17.5	248.03968	190.63273	164.79958	4.40561	0.1069639	2.6513599378212
(468217)	16.8	340.64315	148.73720	128.93680	7.28804	0.0218376	2.7700350378212
(468218)	16.6	30.02178	133.74870	81.56152	0.93411	0.0698867	2.9551216378212
(468219)	17.1	96.62076	208.11966	296.94819	4.57420	0.0338195	2.8772425378213
(468220)	17.3	156.60477	307.17656	145.80536	3.15448	0.0743416	2.6434930378213
(468221)	17.3	234.82005	296.47800	67.82414	8.41742	0.1576802	2.4767542378213
(468222)	16.7	321.82025	173.28288	117.24939	10.03259	0.1351737	2.7807123378214
(468223)	16.9	285.65875	336.95575	335.34011	3.91699	0.0635611	2.9527549378214
(468224)	16.8	214.10835	312.70233	74.33631	2.96663	0.0557957	2.8279977378214
(468225)	16.9	301.76514	208.60542	88.67020	5.42336	0.0133321	2.9673579378214
(468226)	17.1	211.16986	338.78062	55.26814	5.21022	0.0754052	2.7828641378214
(468227)	17.1	209.37288	328.05162	59.96111	3.34664	0.1420377	2.6682583378215
(468228)	17.9	248.66365	286.45642	82.89140	3.41982	0.2170505	2.3629350378215
(468229)	16.7	56.07292	346.54327	197.05988	0.60747	0.0318046	3.0019334378215
(468230)	17.1	206.31829	275.71218	129.78260	6.87645	0.0283418	2.7021146378215
(468231)	16.5	152.97507	348.52085	99.49956	6.11173	0.0548868	2.9172941378216
(468232)	17.3	191.26571	254.73460	161.44313	4.61704	0.0771553	2.6516405378216
(468233)	17.1	91.85941	91.34406	42.42595	5.26033	0.1183743	2.9233585378216
(468234)	17.2	55.40854	131.12933	47.01358	2.82174	0.0260657	2.7696430378216
(468235)	16.4	149.83699	102.69487	303.27390	9.67183	0.1872791	3.0616815378217
(468236)	16.8	109.12292	173.09677	310.13189	7.79156	0.0549625	2.7711804378217
(468237)	17.1	294.80173	211.72504	96.37029	13.87209	0.1821957	2.5647505378217
(468238)	17.2	217.70833	173.49119	205.65061	5.97892	0.0647996	2.7015260378217
(468239)	16.7	143.47875	231.36809	208.39439	1.15818	0.1240946	3.0154356378218
(468240)	16.2	120.33955	283.23496	173.42833	5.15753	0.1419299	3.2004905378218
(468241)	16.8	80.15811	327.28509	192.01669	5.75120	0.0216159	2.9487648378218
(468242)	17.0	240.94299	65.09080	296.60535	5.26435	0.1432100	2.6703618378218
(468243)	17.0	356.10929	101.00043	155.69493	2.93203	0.0245503	2.7641870378219
(468244)	16.4	275.17553	227.39702	108.17345	4.42087	0.0948575	2.7764126378219
(468245)	16.4	247.11907	143.96487	211.91085	3.15969	0.1159807	2.7912050378219
(468246)	15.5	57.78043	236.56136	305.35499	7.87192	0.0317241	3.0407149378219
(468247)	17.3	243.11848	221.15489	156.79241	6.63990	0.1361965	2.4290310378219
(468248)	16.2	144.49366	315.90262	130.92768	11.33694	0.0274663	2.9899414378220
(468249)	16.4	196.28276	261.80826	130.67019	11.55197	0.0757076	3.1117656378220
(468250)	16.3	325.51412	147.19321	151.21343	4.99186	0.1018753	2.8463184378220
(468251)	16.1	151.85137	264.74437	155.47443	16.97819	0.1274686	3.1558331378220
(468252)	16.6	87.41737	334.59596	191.12882	9.60918	0.0585953	2.7276751378221
(468253)	16.5	127.70428	336.19231	138.05609	10.04066	0.1013162	3.0909266378221
(468254)	15.6	145.99260	348.74529	87.72681	12.01996	0.0806277	3.2076116378221
(468255)	15.6	101.52996	58.75114	66.77447	10.41677	0.0488870	3.1118243378221
(468256)	16.6	244.59764	285.18133	72.13330	3.19477	0.0775541	2.8509036378222
(468257)	16.4	349.51904	198.29057	35.58899	2.41844	0.0118866	2.8623406378222
(468258)	17.1	213.00581	297.43238	101.96421	23.48547	0.2080907	2.2642540378222
(468259)	17.0	158.22899	357.89399	71.03876	5.52102	0.0527399	2.7614282378223
(468260)	17.8	304.80624	331.06182	346.61688	3.02052	0.1125838	2.5578564378223
(468261)	16.0	192.55742	291.55074	104.53365	13.51296	0.0351772	3.0141368378223
(468262)	17.0	247.06001	225.31546	142.06839	14.49670	0.1108320	2.7033444378223
(468263)	16.8	319.30457	229.37564	71.39363	1.51641	0.0491436	2.7766897378224
(468264)	16.2	229.44506	254.86248	111.94042	7.41983	0.1071892	3.0181322378224
(468265)	17.3	259.24965	206.75259	145.01862	6.53405	0.0787334	2.6364562378224
(468266)	17.6	245.11227	201.20714	163.16892	1.60290	0.2015129	2.4755227378225
(468267)	16.5	212.16754	148.22823	249.46603	4.85888	0.0475461	2.7231973378225
(468268)	16.8	212.59308	48.42293	335.62868	1.86480	0.0619786	3.0402240378225
(468269)	16.4	172.09860	287.34821	149.77063	4.76243	0.0983624	2.7867233378225
(468270)	17.0	105.30961	305.80269	193.84226	2.95355	0.0374845	2.7728078378225
(468271)	15.9	49.89203	330.07396	220.50307	4.50223	0.0898640	3.1213168378226
(468272)	16.5	208.61887	315.05631	83.86475	3.65553	0.0366500	2.8679348378226
(468273)	16.0	134.57046	94.24639	3.10200	9.07050	0.0701116	3.1268174378226
(468274)	16.3	304.86443	165.75119	125.98499	13.81219	0.0656140	2.9044239378227
(468275)	16.1	347.17520	282.92134	334.28827	17.81504	0.1670968	3.2155632378227
(468276)	17.0	297.70535	189.71851	135.16434	6.98161	0.0842723	2.7140481378227
(468277)	16.1	256.13584	305.51421	22.73821	9.92190	0.0712148	3.1771421378227
(468278)	16.3	348.87194	110.59481	157.45571	10.91871	0.0388238	3.1069401378228
(468279)	16.5	175.82148	283.08963	132.40962	12.35630	0.1762420	2.6855945378228
(468280)	16.4	69.34378	27.45671	133.38681	10.66688	0.0348965	3.1296533378228
(468281)	17.3	341.32496	1.24290	279.18143	1.69534	0.0956793	2.6399487378229
(468282)	16.8	119.87670	47.15049	66.13441	2.35930	0.1310614	3.1710540378229
(468283)	17.4	249.57871	355.63524	28.68215	2.61288	0.2497335	2.3182705378229
(468284)	16.7	149.51652	3.21802	92.01798	4.51574	0.0619581	3.1078460378229
(468285)	15.8	10.50141	163.13038	74.76593	8.07329	0.1235492	3.0222209378230
(468286)	16.8	208.09545	327.12954	76.78533	12.33402	0.0542160	2.7106678378230
(468287)	16.3	9.24893	194.60709	43.27436	12.28940	0.0972764	3.1385499378230
(468288)	16.3	100.50526	292.21864	186.68901	8.17121	0.1494755	3.0564344378230
(468289)	15.9	354.10974	9.50881	251.51385	7.44514	0.1042687	2.7549692378230
(468290)	16.0	310.18216	187.07306	120.57060	11.95307	0.0284557	3.0623227378231
(468291)	16.4	172.53029	330.32947	106.86747	10.80062	0.0817048	3.0387765378231
(468292)	15.9	314.94623	54.30169	222.35025	14.91338	0.0590594	3.1308652378231
(468293)	15.9	139.33623	267.73081	204.91568	13.28268	0.0089559	2.7818754378231
(468294)	16.5	92.10780	33.85065	97.62305	24.26758	0.2154774	3.1694974378232
(468295)	16.3	214.46067	56.71190	327.18537	10.67056	0.1248719	3.0175380378232
(468296)	17.0	226.95213	333.76291	48.55508	5.02576	0.0793700	2.7981400378232
(468297)	16.4	192.09649	16.65515	44.02085	6.56741	0.0650975	2.7579539378233
(468298)	16.1	202.95066	287.93176	103.89594	10.02218	0.0633026	3.1389305378233
(468299)	16.6	204.03647	325.96354	87.33174	13.29239	0.1106019	2.5792023378233
(468300)	16.6	303.31610	221.38101	116.07147	17.32901	0.2791347	2.4148730378233
(468301)	17.0	170.86866	240.13521	198.95289	14.39417	0.1058193	2.6455507378234
(468302)	13.7	182.09422	333.50363	81.41353	9.06650	0.0581275	5.2778400378234
(468303)	15.9	45.91214	4.26625	267.96120	14.12118	0.0833243	2.5501363378234
(468304)	14.0	153.77404	353.67820	94.27251	12.14220	0.0563767	5.0984877378234
(468305)	16.8	22.41058	57.35087	161.52706	15.81484	0.4721159	2.5964721378235
(468306)	15.5	33.26758	220.16697	277.87691	8.29742	0.0666982	3.1767357378235
(468307)	16.2	57.04116	6.97716	88.18976	8.94352	0.2397403	3.0563752378236
(468308)	16.8	31.03578	45.18696	107.58989	6.25926	0.1140755	2.7931994378236
(468309)	16.6	303.11269	204.67870	89.13000	14.87441	0.2384689	2.6348063378236
(468310)	16.6	16.71963	260.51178	285.19945	11.85438	0.1777044	2.7178948378237

(468311)	17.9	28.01838	352.43680	194.24118	4.63666	0.1487636	2.3489230378237
(468312)	15.9	29.55245	50.76846	104.26909	16.09459	0.1247207	2.9311268378237
(468313)	15.5	31.76960	233.26990	273.41228	12.72076	0.1840878	3.1347815378238
(468314)	17.2	28.06089	87.20250	63.05301	13.92906	0.1759968	2.5924188378238
(468315)	16.2	196.38494	226.97766	113.91571	14.98117	0.0474214	2.7555575378238
(468316)	16.3	272.79307	181.87255	104.02037	13.72550	0.1282690	2.7119921378239
(468317)	16.5	295.98638	157.60074	98.05963	12.73522	0.0131562	2.5918422378239
(468318)	16.3	52.91714	158.11656	317.71315	7.12314	0.2105428	3.1023669378239
(468319)	15.9	4.00347	317.19996	230.64844	6.78638	0.1630008	2.8862201378240
(468320)	16.6	7.14922	155.15200	32.10748	8.77225	0.1722051	2.4644707378240
(468321)	18.0	45.79449	77.56264	70.10169	5.74089	0.1678616	2.3207677378240
(468322)	16.4	34.20159	36.99406	116.38260	15.52860	0.1328944	2.7101172378240
(468323)	16.4	45.89671	74.95456	56.71677	10.54189	0.0830998	3.0717302378241
(468324)	15.9	232.23496	23.56367	289.67410	16.83643	0.1991678	2.6834625378241
(468325)	15.7	315.79755	330.40488	266.63946	8.37776	0.1092165	2.7985960378241
(468326)	15.5	338.62674	247.70963	344.22488	11.08545	0.1065746	3.0996273378242
(468327)	16.4	33.78591	16.39262	133.51819	11.45049	0.1699874	3.1275397378242
(468328)	15.6	238.12960	204.26826	94.04467	11.88240	0.0498516	3.1224896378242
(468329)	16.2	138.56512	305.06049	96.32310	15.85233	0.0966105	2.5325523378242
(468330)	17.2	42.25365	103.85394	38.54432	13.52183	0.1351789	2.7680408378243
(468331)	17.5	43.60391	72.53003	79.34492	14.78913	0.1300483	2.6042472378243
(468332)	16.5	323.39515	176.56667	80.96465	14.73001	0.2219978	2.6577867378243
(468333)	16.9	349.67714	251.11919	332.79049	10.83363	0.1504973	2.6071359378243
(468334)	16.4	58.53705	118.43389	357.43656	9.73764	0.1875945	3.1114428378244
(468335)	18.0	275.28515	135.09793	181.50635	22.81216	0.0353996	1.9586914378244
(468336)	16.6	63.23945	293.53707	197.50757	8.32317	0.2030684	3.1837091378244
(468337)	16.8	318.25183	342.07251	295.63981	9.97256	0.1015503	2.5386857378245
(468338)	16.7	310.14909	336.72534	322.60303	7.15636	0.2082571	2.5369185378245
(468339)	16.2	275.64802	13.80194	280.43628	15.38553	0.0406461	3.0379824378245
(468340)	16.3	355.74198	239.40632	346.09753	10.67894	0.0304087	3.0990691378245
(468341)	16.3	53.05816	107.99071	18.76416	13.71918	0.1679231	3.1981030378245
(468342)	17.8	31.70008	120.35230	72.44134	4.80227	0.1070043	2.1672246378246
(468343)	17.4	76.81642	93.18816	8.47156	6.38179	0.2298875	2.4586789378246
(468344)	17.1	342.19486	152.29468	102.07852	7.75411	0.1706696	2.4593053378247
(468345)	17.4	147.81699	346.95267	56.46528	9.36135	0.1141937	2.3256319378247
(468346)	16.9	12.70124	64.46961	118.00318	10.42608	0.0420698	2.7857300378247
(468347)	16.7	62.77619	34.24323	129.67554	4.38039	0.0255033	2.7105175378247
(468348)	16.5	341.40070	60.60505	153.00779	14.84697	0.0447685	2.6507164378248
(468349)	16.5	17.40795	171.49751	36.02817	13.48055	0.0540916	3.0194040378248
(468350)	16.7	337.76601	239.80311	3.71248	16.83301	0.1789004	2.6543737378248
(468351)	16.5	229.23352	150.16670	194.26589	5.76073	0.0437740	2.7177420378249
(468352)	16.2	260.97921	145.04607	179.65748	3.83548	0.1447473	3.0656068378249
(468353)	17.2	300.26729	285.00485	15.82947	4.72182	0.1514800	2.3305251378249
(468354)	16.3	83.27125	309.06246	174.53005	9.69405	0.0510509	3.1698361378249
(468355)	17.2	324.40709	282.51210	348.03868	3.39154	0.1265332	2.6194711378250
(468356)	16.5	318.52697	115.77011	167.62701	11.81534	0.2213200	3.0628581378250
(468357)	17.4	339.76980	45.00284	196.09391	10.48081	0.0464117	2.6208437378250
(468358)	16.1	138.50026	62.98622	25.62694	12.52632	0.1125679	2.5580550378250
(468359)	16.2	21.51676	68.94039	84.23861	13.10387	0.0488458	2.7697523378251
(468360)	16.6	79.37163	331.00900	128.06029	14.52289	0.1128796	2.6125823378251
(468361)	16.6	246.45608	317.49648	11.86637	5.94622	0.0188062	2.7916467378251
(468362)	16.3	356.85177	209.47053	7.80085	10.17173	0.0206317	3.2283865378252
(468363)	15.9	66.66660	295.70323	205.94065	12.09517	0.1076142	3.1128310378252
(468364)	17.0	59.03610	247.89658	237.63085	9.62658	0.0998713	2.9364820378252
(468365)	16.6	340.54743	225.34176	27.70696	13.78578	0.2353141	2.6470912378252
(468366)	15.2	277.44824	282.99570	8.46792	18.03805	0.0512993	3.2192235378253
(468367)	16.6	24.86236	12.67734	177.06150	8.20751	0.1763297	2.8648438378253
(468368)	17.6	152.42133	21.80915	42.05935	6.41971	0.0938708	2.3524073378254
(468369)	16.5	198.49217	175.41052	202.11856	9.74457	0.0623937	3.1405361378254
(468370)	17.3	0.13625	87.40113	140.87435	1.45181	0.1651952	3.0685695378254
(468371)	16.8	9.88887	32.62612	182.83432	4.33074	0.1327185	2.9651293378254
(468372)	16.1	6.89665	171.91538	49.67149	21.45074	0.1263694	3.2165879378255
(468373)	16.8	11.93530	138.31031	75.41878	6.80214	0.1434363	2.6930443378255
(468374)	16.8	317.81923	40.97308	238.24064	6.62715	0.1132546	2.3302723378255
(468375)	16.3	170.56887	359.40373	47.14244	2.66740	0.0749420	2.8282611378255
(468376)	17.2	28.51774	205.53583	352.76696	3.37499	0.0918368	2.5373961378256
(468377)	16.4	324.11089	168.43605	100.28753	10.38257	0.0281887	2.5204864378256
(468378)	17.2	9.01863	183.34422	47.14793	12.96204	0.1533432	2.6033062378256
(468379)	18.1	18.72979	101.84638	119.02519	2.91833	0.1711322	2.3667219378257
(468380)	15.9	11.82545	89.17666	103.57796	6.98226	0.0838417	3.4966855378257
(468381)	15.7	263.89551	292.23675	28.51300	13.83310	0.0496529	3.0074209378257
(468382)	16.9	304.15403	203.11735	87.93681	4.04037	0.0898778	2.6685788378258
(468383)	17.3	213.81031	294.51201	82.48912	4.73346	0.2638839	2.2989439378258
(468384)	16.8	277.51744	260.33821	63.26725	5.79561	0.1684484	2.7683941378258
(468385)	18.5	60.52527	29.43331	132.68036	2.57700	0.1412911	2.3431958378258
(468386)	17.3	189.78960	300.34002	96.30702	3.38609	0.1459527	2.4165576378259
(468387)	18.8	312.04357	158.14246	145.28156	3.60556	0.1875900	2.2251192378259
(468388)	16.5	272.15487	131.94080	183.22297	9.38020	0.0531502	3.1806707378259
(468389)	17.9	107.06580	57.56188	42.74964	3.10736	0.1898469	2.4690773378259
(468390)	17.0	123.09461	17.20681	82.86594	2.16525	0.0262283	2.7597454378260
(468391)	15.9	256.51932	292.76062	37.64686	10.12186	0.0436623	3.1268746378260
(468392)	17.9	108.72502	42.24934	66.87371	2.89414	0.1623012	2.2913261378260
(468393)	17.3	89.53444	274.90633	193.30218	13.36631	0.2735889	2.8577099378261
(468394)	17.6	282.59307	202.26471	126.70436	5.93701	0.1908529	2.4597215378261
(468395)	16.8	46.07818	350.10607	183.62677	2.08167	0.0347989	3.0814002378261
(468396)	17.1	300.24766	149.16365	171.17454	3.45154	0.2958353	2.5322387378261
(468397)	15.5	294.91056	41.58279	245.88128	7.88149	0.0493997	3.1741191378262
(468398)	16.5	102.85253	186.80718	289.67329	0.94374	0.0658177	2.9339721378262
(468399)	16.5	326.18227	272.90594	357.10194	5.23213	0.1151845	3.2226319378262
(468400)	17.5	350.28148	350.04468	263.60436	1.28518	0.1431363	2.5855217378262
(468401)	18.2	332.77956	356.52496	282.33469	2.48061	0.1672453	2.2314987378263
(468402)	18.4	9.35978	232.74920	356.85519	1.36058	0.1425485	2.3242728378263
(468403)	16.0	264.65501	176.19349	141.58122	12.68701	0.0455749	2.9246306378263
(468404)	16.4	309.06733	184.85691	97.59072	3.29796	0.0263954	2.8665558378264
(468405)	17.5	65.46789	57.77850	111.98616	7.03139	0.0758347	2.2247171378264
(468406)	15.5	300.17180	137.80499	137.01358	12.90057	0.0679515	3.0939082378264
(468407)	17.3	224.88174	333.73015	39.29089	6.36576	0.0832131	2.3880030378265
(468408)	17.0	310.96708	197.78635	94.44596	4.23597	0.0828122	2.7247051378265
(468409)	16.5	330.44316	93.71454	171.54103	9.60095	0.0508436	3.0683142378265
(468410)	16.6	315.06971	146.19715	161.44361	6.07442	0.2582571	2.9730082378265
(468411)	16.0	115.99329	19.48284	70.60174	13.27093	0.2237128	3.0261710378266
(468412)	16.7	359.66077	116.81476	137.32191	9.90035	0.0675184	3.0000014378266
(468413)	16.9	20.26722	99.84592	135.34165	8.70606	0.0795789	2.6316375378266
(468414)	17.0	37.31768	71.54654	124.14846	3.48091	0.1326066	2.5353553378267

(468415)	17.0	152.37065	324.00490	112.12302	4.10922	0.0739061	2.7440197378267
(468416)	17.9	356.33373	238.49474	19.19013	3.03547	0.0807364	2.3031859378267

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2010 GA_{173} = 2010 BO_{26} *MPO* 253048
2015 AA_{232} = 2006 HK_{145} *MPO* 324244

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement*.

1995 FM_{15} = 2016 HL_{12}
1997 EN_{16} = 2016 GW_{247}
2001 TJ_{160} = 2016 JR_{31}
2002 AQ_{5} = 2016 JJ_{11}
2002 KY_{3} = 2016 JZ_{36}
2002 QE_{131} = 2016 HP_{18}
2002 TR_{302} = 2009 CP_{47} = 2011 QA_{78} = 2014 DS_{89}
2002 TL_{324} = 2006 QX_{66}
2002 TB_{326} = 2011 SC_{242} = 2014 HQ_{57}
2002 TS_{327} = 2001 KZ_{54}
2002 TF_{329} = 2015 BS_{378}
2002 TN_{330} = 2007 VH_{206}
2002 TY_{330} = 2007 RR_{248}
2002 TD_{331} = 2014 SV_{30}
2002 TR_{338} = 2015 DH_{36}
2002 TD_{340} = 2016 FW_{41}
2002 TB_{341} = 2015 OL_{50}
2002 TX_{345} = 2015 VO_{119}
2002 TZ_{348} = 2015 KQ_{9}
2002 TK_{359} = 2009 SP_{269}
2002 TA_{361} = 2014 NV_{5}
2002 TO_{365} = 2013 YO_{88}
2002 TR_{366} = 2010 XL_{10}
2002 UG_{53} = 2015 GJ_{40}
2003 EO_{41} = 2016 JS_{34}
2003 UQ_{365} = 2014 WP_{239}
2003 YA = 2008 YP_{27} = 2010 KX_{11} = 2011 LY_{28} = 2014 UE_{217} = 2015 FV_{332}
2004 PC_{11} = 2015 EW_{53}
2004 RJ_{97} = 2016 HG_{6}
2004 TH_{155} = 2016 GL_{251}
2004 TW_{337} = 2013 TO_{49} = 2016 HC_{12}
2005 FV_{14} = 2016 JG_{36}
2005 JZ_{63} = 2016 EC_{55}
2005 JN_{164} = 2016 HZ_{11}
2005 PX_{12} = 2016 JD_{35}
2005 VJ_{52} = 2014 WQ_{491} = 2016 HF_{4}
2006 BX_{97} = 2009 WM_{43} = 2015 GE_{45}
2007 BO_{11} = 2016 JX_{12}
2007 BF_{24} = 2015 GU_{28}
2007 CJ_{79} = 2016 JM_{29}
2007 DF_{24} = 2016 GL_{250}
2007 DC_{44} = 2016 HX_{1}
2007 EA_{69} = 2016 GO_{249}
2007 FA_{17} = 2016 GQ_{242}
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2007 GK_{5} = 2016 GX_{251}
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2007 JJ_{9} = 2016 JT_{25}
2007 TL_{201} = 2016 GL_{197}
2007 TO_{380} = 2016 GV_{248}
2007 TU_{383} = 2016 HD_{21}
2007 UP_{61} = 2016 GZ_{246}
2007 VM_{288} = 2015 PS_{32}
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2008 TG_{77} = 2016 GK_{247}
2008 TX_{161} = 2016 JM_{11}
2008 UN_{288} = 2016 JL_{20}
2008 XF_{22} = 2016 GU_{243}
2009 HY_{67} = 2016 JR
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2011 CS_{78} = 2016 JM_{37}
2011 FJ_{25} = 2016 GO_{241}
2011 KM_{22} = 2015 CP_{35}
2011 KA_{32} = 2012 YB_{8}
2011 RK_{15} = 2016 JW_{25}
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2011 YT_{15} = 2013 RE_{30}
2012 HX_{48} = 2016 JX_{16}
2012 LH_{3} = 2016 GM_{251}
2012 LA_{8} = 2016 JP_{2}
2012 MS_{2} = 2016 JH_{13}
2012 PL_{9} = 2016 GN_{244}
2012 TK_{155} = 2016 GC_{242}
2012 UT_{20} = 2015 FO_{248}
2013 AS_{133} = 2016 JE_{35}
2013 LQ_{7} = 2003 MA_{7}
2013 NR_{18} = 2016 GV_{242}
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2016 GT_{207} = 2010 FM_{82}
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2016 GQ_{215} = 2014 WQ_{479}
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2016 GU_{242} = 2010 KW_{53}
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2016 GG_{243} = 2005 GO_{91} = 2010 JJ_{139}
2016 GL_{243} = 2002 TN_{150} = 2005 EH_{282} = 2010 DL_{1}
2016 GN_{243} = 2010 XT_{62}
2016 GO_{243} = 2012 KS_{48}
2016 GR_{243} = 2004 CV_{31} = 2005 GW_{112} = 2015 AZ_{159}
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2016 GB_{245} = 2004 JM_{51} = 2012 FU_{70} = 2013 TE_{64}
2016 GC_{245} = 2010 CY_{167}
2016 GE_{245} = 2004 TN_{195} = 2011 CU_{116}
2016 GP_{245} = 2005 CX_{33} = 2007 RK_{122} = 2015 AK_{249}
2016 GU_{245} = 2014 WP_{387}
2016 GX_{245} = 2004 TN_{193} = 2009 WZ_{245}
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2016 GG_{246} = 2015 BU_{280}
2016 GH_{246} = 2006 YH_{33}
2016 GM_{246} = 2007 TD_{2}
2016 GT_{246} = 2007 BE_{84}
2016 GU_{246} = 2009 XF_{22} = 2015 BB_{47}
2016 GW_{246} = 2005 WQ_{138}
2016 GX_{246} = 2003 KV_{29} = 2007 TV_{209}
2016 GA_{247} = 2010 KP_{21}
2016 GC_{247} = 2008 UX_{312} = 2015 CX_{37}
2016 GF_{247} = 2003 HK_{53}
2016 GG_{247} = 1999 TB_{337} = 2015 AU_{12}
2016 GM_{247} = 1999 TA_{301} = 2006 JB_{65}
2016 GO_{247} = 2010 HP_{110}
2016 GQ_{247} = 2010 JP_{105}
2016 GT_{247} = 2006 WZ_{51} = 2015 AK_{129}
2016 GV_{247} = 2002 GU_{89}
2016 GY_{247} = 2000 QQ_{240}
2016 GE_{248} = 1995 SV_{77} = 2014 WG_{349}
2016 GG_{248} = 2010 AT_{25}
2016 GH_{248} = 2010 AU_{13}
2016 GL_{248} = 2005 ER_{135}
2016 GU_{248} = 2003 UP_{220}
2016 GW_{248} = 2006 UE_{250} = 2013 SC_{11}
2016 GY_{248} = 2005 JC_{124}
2016 GZ_{248} = 2002 RP_{286}
2016 GE_{249} = 2010 GB_{39}
2016 GJ_{249} = 1999 GD_{56}
2016 GL_{249} = 2010 CJ_{69}
2016 GQ_{249} = 2008 XZ_{19} = 2015 AM_{10}
2016 GB_{250} = 2012 LX_{8}
2016 GC_{250} = 2012 HJ_{40} = 2014 XD_{2}
2016 GO_{250} = 2001 FT_{131} = 2005 JV_{172}
2016 GQ_{250} = 2005 GZ_{66} = 2010 JW_{67}
2016 GU_{250} = 2016 EH_{72} = 2007 RJ_{304}
2016 GW_{250} = 2007 ET_{141} = 2009 VR_{9}

2016 GC_{251} = 2006 KT_{128}
2016 GN_{251} = 2013 WY_{10}
2016 HH = 2014 RL
2016 HJ = 2006 HH_{18}
2016 HU = 2014 VY_{28}
2016 HY = 2009 WU_{195}
2016 HB_{1} = 2014 WF_{385}
2016 HE_{1} = 1995 TD_{4} = 2015 BC_{45}
2016 HG_{1} = 2005 SE_{224}
2016 HH_{1} = 2003 FP_{10}
2016 HJ_{1} = 2015 DF_{8}
2016 HK_{1} = 2010 JS_{128}
2016 HP_{1} = 2015 BE_{200}
2016 HQ_{1} = 2006 JN_{10} = 2009 DP_{28} = 2010 TX_{113}
2016 HS_{1} = 2006 SD_{149} = 2015 BO_{111}
2016 HZ_{1} = 2015 BV_{362}
2016 HB_{2} = 2010 LS_{39}
2016 HE_{2} = 2010 GF_{87} = 2015 AA_{256}
2016 HH_{2} = 2014 WS_{154}
2016 HS_{2} = 2010 JQ_{134}
2016 HX_{2} = 2011 AC_{4}
2016 HB_{3} = 2009 VT_{40}
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2016 HJ_{3} = 2011 JP_{3}
2016 HU_{3} = 2010 OV_{6}
2016 HZ_{3} = 2003 TN
2016 HD_{4} = 2012 GK_{37}
2016 HK_{4} = 2001 QL_{316}
2016 HU_{4} = 2010 CZ_{148}
2016 HA_{5} = 1997 UR_{5} = 2015 FO_{215}
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2016 HX_{5} = 2015 BM_{149}
2016 HZ_{5} = 2010 MZ_{109}
2016 HA_{6} = 2005 EE_{204}
2016 HB_{6} = 2012 JX_{2}
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2016 HZ_{6} = 2015 AK_{155}
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2016 HE_{7} = 2013 QT_{25}
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2016 HV_{7} = 2012 PY_{3}
2016 HX_{7} = 2006 CH_{53}
2016 HZ_{7} = 2003 SY_{18} = 2008 VN_{15}
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2016 HY_{8} = 2010 XT_{33}
2016 HF_{9} = 2009 UO_{122}
2016 HJ_{9} = 2010 AS_{44}
2016 HK_{9} = 2014 WT_{71}
2016 HO_{9} = 2015 BZ_{330}
2016 HR_{9} = 2006 KD_{124}
2016 HS_{9} = 2005 JN_{144} = 2010 LQ_{132}
2016 HT_{9} = 2001 EM_{13} = 2014 WK_{269}
2016 HU_{9} = 2010 GU_{93}
2016 HX_{9} = 2010 VK_{149}
2016 HZ_{9} = 2015 BJ_{209}
2016 HB_{10} = 2006 DN_{185}
2016 HC_{10} = 2015 DY_{65}
2016 HL_{10} = 2010 MH_{74}
2016 HS_{10} = 2016 JK_{35} = 2015 AZ_{120}
2016 HV_{10} = 2008 WV_{109} = 2010 KN_{57}
2016 HO_{11} = 2010 KB_{90}
2016 HC_{13} = 2008 WD_{27}
2016 HG_{13} = 2008 FY_{31}
2016 HM_{13} = 2001 QO_{303} = 2010 CP_{176}
2016 HN_{13} = 2004 TF_{362} = 2009 WH_{254} = 2015 BA_{313}
2016 HT_{13} = 2009 AP_{6}
2016 HZ_{13} = 2007 VL_{16}
2016 HH_{14} = 2010 LG_{131}
2016 HM_{14} = 2006 XW_{8} = 2011 BT_{22} = 2012 JX_{39} = 2014 VT_{33}
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2016 HR_{14} = 2007 VK_{179}
2016 HZ_{14} = 2015 BU_{115}
2016 HD_{15} = 2010 GW_{72} = 2011 KE_{11}
2016 HE_{15} = 2008 CN_{142}
2016 HH_{15} = 2015 BX_{458}
2016 HK_{15} = 2015 AU_{194}
2016 HO_{15} = 2009 VW_{118} = 2015 BY_{343}
2016 HX_{15} = 2015 AY_{25}
2016 HY_{15} = 2014 UF_{118}
2016 HC_{16} = 2015 AE_{60}
2016 HL_{16} = 2005 AY_{79} = 2007 VJ_{78}
2016 HQ_{16} = 2015 DR_{147}
2016 HY_{16} = 2005 LT_{29} = 2010 LH_{45} = 2015 DA_{193}
2016 HZ_{16} = 2013 QL_{53}
2016 HP_{17} = 2015 AT_{172}
2016 HS_{17} = 2015 BK_{370}
2016 HT_{17} = 2013 WA_{23}
2016 HM_{18} = 2000 OS_{66}
2016 HR_{18} = 2015 AF_{154}
2016 HS_{18} = 2008 XW_{35} = 2015 BZ_{54}
2016 HB_{19} = 2010 FP_{110}
2016 HN_{20} = 2011 LO_{23}
2016 HR_{20} = 2013 SW_{74}
2016 HB_{21} = 2006 HA_{144}
2016 HE_{21} = 2016 JJ_{36} = 2008 EW_{37}
2016 HB_{23} = 2010 TW_{163}
2016 HN_{23} = 2004 TQ_{174}

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2016 HT_{23} = 2008 VN_{22} = 2010 HB_{26} = 2015 FE_{125}
2016 JU = 2009 UJ_{10}
2016 JM_{2} = 2000 HV_{96}
2016 JD_{4} = 2001 QG_{103} = 2004 NN_{10} = 2014 XB_{24}
2016 JF_{4} = 2012 LR_{2}
2016 JG_{4} = 2009 UK_{42}
2016 JJ_{4} = 2004 RV_{320}
2016 JG_{5} = 2009 HQ_{50}
2016 JH_{5} = 2009 LT_{2}
2016 JP_{6} = 2010 KD_{61}
2016 JS_{6} = 2010 JB_{126}
2016 JV_{6} = 2015 FA_{126}
2016 JX_{6} = 2006 SV_{69} = 2013 SV_{12}
2016 JY_{6} = 2016 EM_{37}
2016 JD_{7} = 2005 XC_{83}
2016 JM_{7} = 2012 LS_{21}
2016 JT_{7} = 2014 WQ_{267}
2016 JD_{8} = 2009 MR_{2}
2016 JH_{8} = 2011 FF_{70}
2016 JQ_{8} = 2010 LR_{40}
2016 JU_{8} = 2015 AJ_{47}
2016 JV_{8} = 2015 BL_{210}
2016 JF_{9} = 2007 GT_{56}
2016 JJ_{9} = 2015 BE_{240}
2016 JL_{9} = 2006 BY_{111} = 2015 BZ_{14}
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2016 JV_{10} = 2012 TB_{233}
2016 JF_{11} = 2015 DW_{113}
2016 JN_{11} = 2015 AT_{28}
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2016 JW_{11} = 2014 XC_{11}
2016 JY_{11} = 2011 EY_{85}
2016 JZ_{11} = 2011 KY_{19} = 2013 AZ_{76}
2016 JB_{12} = 2011 KH = 2013 AL_{71}
2016 JC_{12} = 2014 RJ_{25}
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2016 JN_{12} = 2010 JZ_{104}
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2016 JC_{13} = 2006 HQ_{141}
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2016 JT_{14} = 2003 JY_{12} = 2015 AN_{59}
2016 JC_{15} = 2008 PS_{5}
2016 JB_{16} = 2014 WR_{157}
2016 JC_{16} = 2013 TC_{120}
2016 JE_{16} = 2011 KB_{42}
2016 JR_{16} = 2010 JT_{146}
2016 JU_{16} = 2015 BG_{382}
2016 JV_{18} = 2005 YH_{98} = 2015 BD_{517}
2016 JW_{18} = 2011 AU_{6} = 2014 WP_{292}
2016 JY_{18} = 2010 KS_{20} = 2015 DZ_{194}
2016 JG_{19} = 2014 AJ_{31}
2016 JP_{19} = 2001 SH_{306} = 2005 GH_{135}
2016 JQ_{19} = 2003 WJ_{97} = 2011 HM_{57}
2016 JW_{19} = 2005 GC_{149} = 2015 AZ_{242}
2016 JZ_{19} = 2006 WZ_{152}
2016 JB_{20} = 2001 DR_{54} = 2006 EA_{7} = 2015 BD_{420}
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2016 JU_{20} = 2007 TA_{314} = 2015 DR_{116}
2016 JA_{21} = 2015 BL_{44}
2016 JE_{21} = 2015 BB_{90}
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2016 JL_{21} = 2008 XF_{28}
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2016 JD_{23} = 2015 DP_{143}
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2016 JG_{23} = 2006 BO_{162} = 2015 DP_{176}
2016 JH_{23} = 2014 WF_{447}
2016 JO_{23} = 1999 JL_{2}
2016 JD_{24} = 2010 CF_{206} = 2015 AM_{205}
2016 JE_{24} = 2015 BC_{369}
2016 JP_{24} = 2014 TP_{37}
2016 JA_{25} = 2004 EZ_{88} = 2008 FO_{23}
2016 JE_{25} = 2006 BU_{280} = 2006 DX_{15} = 2015 CP_{26}
2016 JF_{25} = 2009 WC_{130} = 2013 TQ_{104} = 2015 AS_{155}
2016 JJ_{25} = 2007 VA_{111} = 2009 BB_{87}
2016 JQ_{25} = 2008 WG_{44} = 2010 LR_{47}
2016 JY_{25} = 2013 NF_{21}
2016 JC_{26} = 2006 SF_{182} = 2010 LH_{48}
2016 JD_{26} = 2010 KG_{97}
2016 JE_{26} = 2010 GA_{173}
2016 JF_{26} = 2012 JY_{11}
2016 JK_{26} = 2010 MG_{37}
2016 JU_{26} = 2006 US_{148}
2016 JX_{26} = 2007 EP_{222} = 2009 WJ_{21}
2016 JZ_{26} = 2015 FG_{126}
2016 JC_{27} = 2010 EO_{101} = 2015 DT_{143}
2016 JE_{27} = 2009 HW_{79}
2016 JJ_{27} = 2015 AW_{163}
2016 JP_{27} = 2016 JX_{27} = 2010 MD_{21} = 2015 AJ_{148}

2016 JY_{27} = 2010 CS_{151}
2016 JE_{28} = 2010 GS_{162}
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2016 JN_{29} = 2004 XB_{184}
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2016 JB_{30} = 2006 WW_{179} = 2015 BB_{374}
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2016 JU_{30} = 2006 LT_1 = 2009 FG_{16}
2016 JW_{30} = 2007 ET_{209}
2016 JY_{30} = 2009 UY_{40}
2016 JH_{31} = 2009 DR_{62}
2016 JK_{31} = 2011 FU_{104}
2016 JL_{31} = 2006 KD_{21}
2016 JO_{31} = 2007 LB_{13}
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2016 JS_{31} = 2009 HQ_{72}
2016 JV_{31} = 2002 CV_{316}
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2016 JN_{32} = 2005 UW_{228}
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2016 JG_{35} = 2015 DW_{156}
2016 JL_{35} = 2004 VQ_{79}
2016 JN_{35} = 2015 AT_{36}
2016 JR_{35} = 2015 BK_{306}
2016 JW_{35} = 2009 WG_{75} = 2012 LB_{26} = 2015 DW_{176}
2016 JZ_{35} = 2007 ER_{162} = 2012 KJ_{48} = 2015 BZ_{353}
2016 JC_{36} = 2004 RP_{133}
2016 JD_{36} = 2009 WH_{189} = 2011 EX_{78}
2016 JE_{36} = 2008 TR_{109} = 2012 PA_{29}
2016 JH_{36} = 2015 BS_{112}
2016 JM_{36} = 2009 XE
2016 JP_{36} = 2012 JN_{31} = 2014 WB_{145}
2016 JQ_{36} = 2014 WY_{431}
2016 JS_{36} = 2007 DU_{94}
2016 JB_{37} = 2007 RT_{123} = 2012 SP_{22}
2016 JC_{37} = 2010 JV_{102} = 2010 JK_{109}
2016 JD_{37} = 2010 BE_{73} = 2010 NL_{97}
2016 JS_{37} = 2010 MJ_{77}

NEW NAMES OF MINOR PLANETS

(9437) Hironari = 1997 EA_3

Discovered 1997 Mar. 4 by T. Kobayashi at Oizumi.

Hironari Yamane (b. 1980) has been director of the Kamagari Astronomical Observatory on an island of Kure City, Hiroshima, since 2009. He is an active member of the Japanese Society for Education and Popularization of Astronomy.

(9654) Seitennokai = 1996 AQ_2

Discovered 1996 Jan. 13 by T. Kobayashi at Oizumi.

Seitennokai is an astronomy club in Japan, which was founded in 1985, with about 20 members. They are trying to discover new astronomical objects and increase the public popularity of astronomy.

(16724) Ullilotzmann = 1995 YV_3

Discovered 1995 Dec. 28 by Spacewatch at Kitt Peak.

Ulrich ('Ulli') Lotzmann (b. 1956) is a German space historian, artist and astrophotographer. He is an expert in Apollo era spaceflight crew equipment and spacecraft systems and is a key contributor to the Apollo Lunar Surface Journal. Name suggested by E. Jones and K. Glover.

(27426) Brettlawrie = 2000 EP_{199}

Discovered 2000 Mar. 1 by the Catalina Sky Survey.

Brett Lawrie (b. 1959) is an engineer at the University of Arizona's Lunar and Planetary Laboratory and Steward Observatory. He is instrumental in the design, fabrication and testing of instruments and hardware for large world-class ground-based observatories, analytical laboratories and numerous NASA spacecraft missions.

(27445) Lynnlane = 2000 FB_{57}

Discovered 2000 Mar. 30 by the Catalina Sky Survey.

Lynn Lane (b. 1955) has been the long-time business and finance manager of the University of Arizona's Lunar and Planetary Laboratory (LPL) and the Department of Planetary Sciences. She has served four LPL directors and provided invaluable support for numerous planetary scientists, students and spacecraft missions.

(29874) Rogerculver = 1999 GV_9

Discovered 1999 Apr. 14 by R. A. Tucker at Goodricke-Pigott.

U.S. astronomer Roger B. Culver (b. 1940) enjoyed a 50-year teaching career at Colorado State University, where he was often feted for excellence in teaching more than 30,000 astronomy students.

(30068) Frankmelillo = 2000 EZ_{70}

Discovered 2000 Mar. 11 by the Catalina Sky Survey.

Frank Melillo (b. 1958) has been the Coordinator for the Mercury Section of the Association of Lunar and Planetary Observers (ALPO) since 2001. Also in that year he received the ALPO Walter Haas Observing Award.

(32132) Andrewamini = 2000 LS_{16}

Discovered 2000 June 4 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Andrew Ethridge Amini (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his computational biology and bioinformatics project. He attends the Yorktown High School, Yorktown Heights, New York.

(32145) Katberman = 2000 LE_{30}

Discovered 2000 June 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Katharine Barr Berman (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her cellular and molecular biology project. She attends the Hastings High School, Hastings-on-Hudson, New York.

(32146) Paigebrown = 2000 LF_{30}

Discovered 2000 June 7 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Paige Brown (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her environmental science project. She attends the Bangor High School, Bangor, Maine.

(32163) Claireburch = 2000 MZ_5

Discovered 2000 June 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Claire Bernadette Burch (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her space science project. She attends the Mira Loma High School, Sacramento, California.

(32213) Joshuachoe = 2000 OE_{13}

Discovered 2000 July 23 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Joshua Choe (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his cellular and molecular biology project. He attends the St. Mark's School of Texas, Dallas, Texas.

(32214) Colburn = 2000 OV_{15}

Discovered 2000 July 23 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Thomas William Colburn (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his chemistry project. He attends the Oak Ridge High School, Oak Ridge, Tennessee.

(32217) Beverlyge = 2000 OE_{18}

Discovered 2000 July 23 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Beverly Ge (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her materials science project. She attends the Buchholz High School, Gainesville, Florida.

(32226) Vikulgupta = 2000 OQ_{23}

Discovered 2000 July 23 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Vikul Gupta (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his computer science project. He attends the Oregon Episcopal School, Portland, Oregon.

(32229) Higashino = 2000 OX_{26}

Discovered 2000 July 23 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Soon il Junko Higashino (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her animal sciences project. She attends the Ossining High School, Ossining, New York.

(32233) Georgehou = 2000 OZ_{29}

Discovered 2000 July 30 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

George Hou (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his mathematics project. He attends the Arcadia High School, Arcadia, California.

(32234) Jesslihuang = 2000 OW_{31}

Discovered 2000 July 30 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Jessica Li Huang (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her behavioral and social sciences project. She attends the Jericho Senior High School, Jericho, New York.

(32237) Jagadeesan = 2000 OA_{37}

Discovered 2000 July 30 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Meena Jagadeesan (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her mathematics project. She attends the Phillips Exeter Academy, Exeter, New Hampshire.

(32242) Jagota = 2000 OE_{40}

Discovered 2000 July 30 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Milind Jagota (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his materials science project. He attends the Liberty High School, Bethlehem, Pennsylvania.

(32250) Karthik = 2000 OF_{46}

Discovered 2000 July 30 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Anjini Karthik (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her materials science project. She attends the St. Francis High School, Mountain View, California.

(32264) Cathjesslai = 2000 PC_1

Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Catherine Jessica Yihui Lai (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her medicine and health project. She attends the Brearley School, New York, New York.

(32275) Limichael = 2000 PS$_{13}$
Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Michael Yifan Li (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his computational biology and bioinformatics project. He attends the James M. Bennett High School, Salisbury, Maryland.

(32276) Allenliu = 2000 PV$_{14}$
Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Allen Liu (b. 1999) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his mathematics project. He attends the Penfield High School, Penfield, New York.

(32277) Helenliu = 2000 PE$_{15}$
Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Helen Liu (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her medicine and health project. She attends the Amity Regional High School, Woodbridge, Connecticut.

(32278) Makaram = 2000 PU$_{15}$
Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Yashaswini Makaram (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her computer science project. She attends the Massachusetts Academy of Math and Science, Worcester, Massachusetts.

(32280) Rachelmashal = 2000 PF$_{17}$
Discovered 2000 Aug. 1 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Rachel Mashal (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her animal sciences project. She attends the John F. Kennedy High School, Bellmore, New York.

(32282) Arnoldmong = 2000 PS$_{23}$
Discovered 2000 Aug. 2 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Arnold Mong (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his physics project. He attends the Montgomery Blair High School, Silver Spring, Maryland.

(32296) Aninsayana = 2000 QY$_{10}$
Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Anin Sayana (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his medicine and health project. He attends the Bellarmine College Preparatory School, San Jose, California.

(32310) Asherwillner = 2000 QY$_{35}$
Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Asher Justin Willner (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for his engineering project. He attends the Yeshiva University High School of Los Angeles, Los Angeles, California.

(32311) Josephineyu = 2000 QA$_{38}$
Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Josephine Jessica Yu (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her physics project. She attends the Montgomery Blair High School, Silver Spring, Maryland.

(32315) Clarezhu = 2000 QO$_{43}$
Discovered 2000 Aug. 24 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Clare Zhu (b. 1998) is a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors, for her biochemistry project. She attends the Northwood High School, Irvine, California.

(32533) Tranpham = 2001 PS$_{29}$
Discovered 2001 Aug. 11 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Tran Pham mentored a finalist in the 2016 Intel Science Talent Search , a science competition for high school seniors. He teaches at the Montgomery Blair High School, Silver Spring, Maryland.

(95928) Tonycook = 2003 JO$_{13}$
Discovered 2003 May 7 by the Catalina Sky Survey.

Tony Cook (b. 1962) is the British Astronomical Association and Association of Lunar and Planetary Observers Coordinator for Transient Lunar Phenomena. He also worked on the Mariner 10 imagery and the Clementine digital topographic map that was used during the planning of the impact of ESA's SMART-1.

(120208) Brentbarbee = 2004 EK$_{32}$
Discovered 2004 Mar. 15 by the Catalina Sky Survey.

Brent Barbee (b. 1981) is a member of the Flight Dynamics System team for the OSIRIS-REx Asteroid Sample Return Mission. He is also the creator of NASA's NHATS system to monitor the accessibility of near-Earth asteroids, and he works on research projects to develop systems to defend Earth from asteroid impacts.

(120218) Richardberry = 2004 FN$_{2}$
Discovered 2004 Mar. 17 by the Catalina Sky Survey.

Richard P. Berry Jr. (b. 1955) contributed to the NASA OSIRIS-REx Asteroid Sample Return Mission as Configuration Control Manager.

(120285) Brentbos = 2004 HE$_{47}$
Discovered 2004 Apr. 22 by the Catalina Sky Survey.

Brent J. Bos (b. 1969) is the OSIRIS-REx Asteroid Sample Return Mission TAGCAMS instrument scientist. Prior to serving in this role, he was the NASA OSIRIS-REx optics lead. Before joining OSIRIS-REx he supported four Mars lander missions and the optical design and construction of the James Webb Space Telescope.

(120308) Deebradel = 2004 KN$_{12}$
Discovered 2004 May 22 by the Catalina Sky Survey.

Deanna Bradel (b. 1964) is a Financial Manager for the NASA OSIRIS-REx Asteroid Sample Return Mission. Prior to this role, she provided financial support as a Sr. Resources Analyst for the Aqua mission, and ICESat and MESSENGER mission instrument teams.

(229864) Sichouzhilu = 2009 TC$_{26}$
Discovered 2009 Oct. 14 by PMO NEO Survey Program at XuYi.

Sichouzhilu (Silk Road) was an ancient network of trade and cultural transmission routes that connected Chang'an, China to the Mediterranean Sea. The Chang'an-Tianshan corridor was listed as a World Heritage Site by UNESCO in 2014.

(236984) Astier = 2008 PP_{21}

Discovered 2008 Aug. 4 by P. Sogorb at Eygalayes.

Alexandre Astier (b. 1974) is a French humorist, actor, scriptwriter and movie director. Known for the television series "Kaamelott", he's an artist who wanted to be an astronomer. Alexandre uses his skills against obscurantism and to promote astronomy, as in his one-man show "l'Exoconference".

(290074) Donasadock = 2005 QF_{76}

Discovered 2005 Aug. 29 by B. Christophe at Saint-Sulpice.

Dona Sadock (b. 1945) was the creating producer of the Firesign Theater, and a producer of radio programs who had her own talk radio show. She has lived in New York, Los Angeles and Paris. She is a friend of the discoverer.

(337166) Ivanartioukhov = 1999 VM_1

Discovered 1999 Nov. 1 by E. W. Elst and S. Ipatov at Uccle.

Ivan Semenovich Artioukhov (1908–1995), father of the wife of the second discoverer, was the founder of the society for nature conservation in Russia.

(341958) Chrétien = 2008 PW_{21}

Discovered 2008 Aug. 3 by P. Sogorb at Eygalayes.

Henri Chrétien (1879–1956) was a French astronomer and optician. An optical-calculation expert, he was the co-inventor of Ritchey-Chrétien telescope. This kind of telescope is now used throughout the world and even in space.

(361450) Houellebecq = 2007 BM_{73}

Discovered 2007 Jan. 21 by J.-C. Merlin at Nogales.

Michel Houellebecq (Michel Thomas, *b.* 1958) is a French author, filmmaker and poet. In 2010 he published the Prix Goncourt-winning *La Carte et le Territoire*. The intrusion of free-market-economics into human relationships and the loneliness of the human being in an absurd decadent world are his favorite themes.

(386622) New Zealand = 2009 SA_1

Discovered 2009 Sept. 16 by J. McCormick at Farm Cove.

New Zealand is a country comprising two main islands, and numerous smaller islands, situated in the Southwest Pacific Ocean. It is also known as Aotearoa (land of the long white cloud) by the indigenous Maori people. It has three official languages (English, Maori and Sign) and a population of approximately 4.5 million.