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Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

MPC@CFA.HARVARD.EDU (science) Phone 617–495–7444 (for emergency use only).

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ERRATA

MPC	Line	
99801	27 to	28 Replace observer list with Observer V. L. Hoette and add Measurers N. E. Garcia, X. P. Lopez, A. L. Caughey, D. D. Webb, B. A. O'Keeffe, V. L. Hoette, A. W. Puckett, T. R. Linder
103973	−12 to	−11 *For* Southampon *read* Southampton [(9015) citation]

NEW OBSERVATORY CODES

The following listing is a continuation to that on *MPC* 105281. 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	$\rho\cos\phi'$	$\rho\sin\phi'$	
L01	13.74930	0.704742	+0.707169	Višnjan Observatory, Tican
L02	20.81658	0.771051	+0.634781	NOAK Observatory, Stavraki
L18	26.71828	0.659348	+0.749399	QOS Observatory, Zalistci
T03	203.74247	0.936240	+0.351538	Haleakala-LCO Clamshell #3
Z17	343.48827	0.881476	+0.471456	Tenerife-LCO Aqawan A #2

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Obs.
(192559)	2017 01	10.185673	11 08 24.00	−19 39 27.7	*MPS* 758634	W87
(192559)	2017 01	16.272563	11 11 09.74	−22 00 02.0	*MPS* 759670	W86

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
2004 LB	2004 12	09.76585	23 05 28.44	+13 12 00.3	*MPS* 121171	246
2004 LB	2004 12	09.76628	23 05 28.83	+13 11 53.5	*MPS* 121171	246
2004 LB	2004 12	09.77075	23 05 32.14	+13 10 41.2	*MPS* 121171	246
2004 TO_{371}	2012 10	11.22345	00 08 13.45	−03 40 24.5	*MPS* 806526	G96
2004 TO_{371}	2012 10	11.23029	00 08 13.05	−03 40 24.8	*MPS* 806526	G96
2004 TO_{371}	2012 10	11.23713	00 08 12.66	−03 40 25.3	*MPS* 806526	G96
2004 TO_{371}	2012 10	11.24398	00 08 12.33	−03 40 26.1	*MPS* 806526	G96
2005 RQ_{36}	*2005 09	03.30755	22 36 39.16	+03 56 09.4	*MPS* 142261	568
2005 RQ_{36}	2005 09	03.34414	22 36 36.98	+03 56 05.0	*MPS* 142261	568
2005 RQ_{36}	2005 09	03.38089	22 36 34.78	+03 56 00.5	*MPS* 142261	568
2005 RQ_{36}	2005 09	05.27834	22 34 46.65	+03 51 50.7	*MPS* 142261	568
2007 DD	2011 06	01.61246	20 25 05.33	−44 28 42.2	*MPS* 528118	568
2007 DD	2011 06	01.61326	20 25 05.41	−44 28 43.2	*MPS* 528118	568
2007 DD	2011 06	01.61412	20 25 05.51	−44 28 44.3	*MPS* 528118	568
2007 DD	2011 06	01.61498	20 25 05.58	−44 28 45.2	*MPS* 528118	568
2007 DD	2011 06	01.61581	20 25 05.67	−44 28 45.9	*MPS* 528118	568
2007 DD	2011 06	01.61662	20 25 05.74	−44 28 47.3	*MPS* 528118	568
2011 PU_1	2014 04	04.253157	10 23 44.968	−14 05 41.03	*MPS* 523398	568
2011 PU_1	2014 04	04.256030	10 23 44.491	−14 05 41.32	*MPS* 523398	568
2011 PU_1	2014 04	04.258905	10 23 44.030	−14 05 41.53	*MPS* 523398	568
2012 TC_4	2012 10	09.420868	23 24 31.11	+02 44 56.6	*MPS* 435397	F65
2012 TC_4	2012 10	09.421493	23 24 30.76	+02 44 54.7	*MPS* 435397	F65
2012 TC_4	2012 10	09.422079	23 24 30.43	+02 44 52.8	*MPS* 435397	F65
2012 TC_4	2012 10	09.422676	23 24 30.11	+02 44 51.0	*MPS* 435397	F65
2012 TC_4	2012 10	09.423291	23 24 29.76	+02 44 49.1	*MPS* 435397	F65
2012 TC_4	2012 10	09.423883	23 24 29.43	+02 44 47.3	*MPS* 435397	F65
2012 TC_4	2012 10	09.424491	23 24 29.09	+02 44 45.4	*MPS* 435397	F65
2012 TC_4	2012 10	09.425112	23 24 28.75	+02 44 43.7	*MPS* 435397	F65
2012 TC_4	2012 10	09.425693	23 24 28.42	+02 44 41.8	*MPS* 435397	F65
2012 TC_4	2012 10	09.426292	23 24 28.09	+02 44 40.0	*MPS* 435397	F65
2012 TC_4	2012 10	09.426903	23 24 27.76	+02 44 38.2	*MPS* 435397	F65
2012 TC_4	2012 10	09.427494	23 24 27.43	+02 44 36.4	*MPS* 435397	F65
2012 TC_4	2012 10	09.428118	23 24 27.08	+02 44 34.4	*MPS* 435397	F65
2012 TC_4	2012 10	09.428731	23 24 26.74	+02 44 32.5	*MPS* 435397	F65
2012 TC_4	2012 10	09.429317	23 24 26.42	+02 44 30.6	*MPS* 435397	F65
2012 TC_4	2012 10	09.429930	23 24 26.08	+02 44 28.7	*MPS* 435397	F65
2012 TC_4	2012 10	09.58483	23 23 44.62	+02 48 53.2	*MPS* 435397	E10
2012 TC_4	2012 10	09.58565	23 23 44.17	+02 48 50.7	*MPS* 435397	E10
2012 TC_4	2012 10	09.58635	23 23 43.76	+02 48 48.5	*MPS* 435397	E10
2012 TC_4	2012 10	09.58709	23 23 43.34	+02 48 46.0	*MPS* 435397	E10
2012 TC_4	2012 10	09.58798	23 23 42.83	+02 48 43.1	*MPS* 435397	E10
2012 TC_4	2012 10	09.58889	23 23 42.33	+02 48 40.4	*MPS* 435397	E10
2012 TC_4	2012 10	09.58970	23 23 41.86	+02 48 37.6	*MPS* 435397	E10
2012 TC_4	2012 10	09.59039	23 23 41.47	+02 48 35.6	*MPS* 435397	E10
2012 TC_4	2012 10	09.59109	23 23 41.09	+02 48 33.4	*MPS* 435397	E10
2012 TC_4	2012 10	09.59208	23 23 40.52	+02 48 30.4	*MPS* 435397	E10
2012 TC_4	2012 10	09.59290	23 23 40.04	+02 48 27.5	*MPS* 435397	E10
2012 TC_4	2012 10	09.59362	23 23 39.65	+02 48 25.2	*MPS* 435397	E10
2012 TC_4	2012 10	09.59431	23 23 39.25	+02 48 23.1	*MPS* 435397	E10
2012 TC_4	2012 10	09.59585	23 23 38.39	+02 48 18.4	*MPS* 435397	E10
2012 TC_4	2012 10	09.59673	23 23 37.88	+02 48 15.4	*MPS* 435397	E10
2012 TC_4	2012 10	09.59746	23 23 37.47	+02 48 12.9	*MPS* 435397	E10

2012 TC_4	2012 10 09.59940	23 23 36.37	+02 48 06.7	*MPS* 435397	E10	
2012 TC_4	2012 10 09.60012	23 23 35.98	+02 48 04.5	*MPS* 435397	E10	
2012 TC_4	2012 10 09.60097	23 23 35.51	+02 48 02.0	*MPS* 435397	E10	
2012 TC_4	2012 10 10.287795	23 20 10.26	+01 43 16.3	*MPS* 435397	F65	
2012 TC_4	2012 10 10.288272	23 20 09.82	+01 43 13.4	*MPS* 435397	F65	
2012 TC_4	2012 10 10.288722	23 20 09.40	+01 43 10.7	*MPS* 435397	F65	
2012 TC_4	2012 10 10.289219	23 20 08.94	+01 43 07.7	*MPS* 435397	F65	
2012 TC_4	2012 10 10.289710	23 20 08.48	+01 43 04.6	*MPS* 435397	F65	
2012 TC_4	2012 10 10.290234	23 20 08.00	+01 43 01.5	*MPS* 435397	F65	
2012 TC_4	2012 10 10.290745	23 20 07.52	+01 42 58.4	*MPS* 435397	F65	
2012 TC_4	2012 10 10.291237	23 20 07.06	+01 42 55.3	*MPS* 435397	F65	
2012 TC_4	2012 10 10.291743	23 20 06.58	+01 42 52.2	*MPS* 435397	F65	
2012 TC_4	2012 10 10.292234	23 20 06.12	+01 42 49.2	*MPS* 435397	F65	
2012 TC_4	2012 10 10.292735	23 20 05.66	+01 42 46.2	*MPS* 435397	F65	
2012 TC_4	2012 10 10.293242	23 20 05.18	+01 42 43.0	*MPS* 435397	F65	
2012 TC_4	2012 10 10.293755	23 20 04.70	+01 42 39.9	*MPS* 435397	F65	
2012 TC_4	2012 10 10.294262	23 20 04.21	+01 42 36.7	*MPS* 435397	F65	
2012 TC_4	2012 10 10.294758	23 20 03.75	+01 42 33.8	*MPS* 435397	F65	
2012 TC_4	2012 10 11.48886	22 54 17.30	−03 43 14.2	*MPS* 435398	300	
2012 TC_4	2012 10 11.49357	22 53 56.81	−03 46 29.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.49772	22 53 38.54	−03 49 23.8	*MPS* 435398	300	
2012 TC_4	2012 10 11.49820	22 53 36.41	−03 49 44.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.49915	22 53 32.20	−03 50 24.1	*MPS* 435398	300	
2012 TC_4	2012 10 11.49963	22 53 30.07	−03 50 44.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.50058	22 53 25.84	−03 51 24.7	*MPS* 435398	300	
2012 TC_4	2012 10 11.50105	22 53 23.71	−03 51 44.8	*MPS* 435398	300	
2012 TC_4	2012 10 11.50153	22 53 21.58	−03 52 05.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.50200	22 53 19.46	−03 52 25.3	*MPS* 435398	300	
2012 TC_4	2012 10 11.50344	22 53 12.99	−03 53 26.7	*MPS* 435398	300	
2012 TC_4	2012 10 11.50392	22 53 10.84	−03 53 47.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.50439	22 53 08.70	−03 54 07.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.50487	22 53 06.55	−03 54 27.8	*MPS* 435398	300	
2012 TC_4	2012 10 11.50534	22 53 04.39	−03 54 48.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.50584	22 53 02.16	−03 55 09.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.50679	22 52 57.83	−03 55 50.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.50727	22 52 55.66	−03 56 11.2	*MPS* 435398	300	
2012 TC_4	2012 10 11.50774	22 52 53.49	−03 56 31.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.50822	22 52 51.33	−03 56 52.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.50869	22 52 49.16	−03 57 12.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.50964	22 52 44.81	−03 57 53.8	*MPS* 435398	300	
2012 TC_4	2012 10 11.51059	22 52 40.44	−03 58 35.3	*MPS* 435398	300	
2012 TC_4	2012 10 11.51107	22 52 38.25	−03 58 56.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.56555	22 48 08.13	−04 41 18.9	*MPS* 435398	300	
2012 TC_4	2012 10 11.56591	22 48 06.21	−04 41 36.7	*MPS* 435398	300	
2012 TC_4	2012 10 11.56627	22 48 04.31	−04 41 54.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.56734	22 47 58.60	−04 42 48.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.56770	22 47 56.68	−04 43 06.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.60049	22 44 54.44	−05 11 46.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.60081	22 44 52.60	−05 12 04.1	*MPS* 435398	300	
2012 TC_4	2012 10 11.60113	22 44 50.75	−05 12 21.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.60144	22 44 48.96	−05 12 38.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.60175	22 44 47.17	−05 12 55.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.60237	22 44 43.57	−05 13 29.7	*MPS* 435398	300	
2012 TC_4	2012 10 11.60268	22 44 41.77	−05 13 46.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.60300	22 44 39.94	−05 14 04.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.60362	22 44 36.33	−05 14 38.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.60393	22 44 34.53	−05 14 55.7	*MPS* 435398	300	
2012 TC_4	2012 10 11.60488	22 44 28.99	−05 15 48.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.60519	22 44 27.20	−05 16 05.3	*MPS* 435398	300	
2012 TC_4	2012 10 11.60551	22 44 25.30	−05 16 23.3	*MPS* 435398	300	
2012 TC_4	2012 10 11.60583	22 44 23.44	−05 16 41.0	*MPS* 435398	300	
2012 TC_4	2012 10 11.60613	22 44 21.69	−05 16 57.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.60645	22 44 19.82	−05 17 15.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.60676	22 44 17.99	−05 17 32.8	*MPS* 435398	300	
2012 TC_4	2012 10 11.60708	22 44 16.11	−05 17 50.5	*MPS* 435398	300	
2012 TC_4	2012 10 11.60740	22 44 14.27	−05 18 08.4	*MPS* 435398	300	
2012 TC_4	2012 10 11.60771	22 44 12.44	−05 18 25.6	*MPS* 435398	300	
2012 TC_4	2012 10 11.60803	22 44 10.57	−05 18 43.1	*MPS* 435398	300	
2012 TC_4	2012 10 11.60834	22 44 08.75	−05 19 00.9	*MPS* 435398	300	
2012 TC_4	2012 10 11.71323	22 38 24.31	−07 26 55.7	*MPS* 435398	461	
2012 TC_4	2012 10 11.71350	22 38 22.37	−07 27 17.6	*MPS* 435398	461	
2012 TC_4	2012 10 11.71376	22 38 20.46	−07 27 39.3	*MPS* 435398	461	
2012 TC_4	2012 10 11.71925	22 37 40.25	−07 35 13.7	*MPS* 435398	461	
2012 TC_4	2012 10 11.71951	22 37 38.29	−07 35 35.8	*MPS* 435398	461	
2012 TC_4	2012 10 11.71977	22 37 36.35	−07 35 57.9	*MPS* 435398	461	
2012 TC_4	2012 10 11.72030	22 37 32.42	−07 36 42.0	*MPS* 435398	461	
2012 TC_4	2012 10 11.72056	22 37 30.41	−07 37 04.2	*MPS* 435398	461	
2012 TC_4	2012 10 11.73944	22 35 03.42	−08 04 23.5	*MPS* 435398	461	
2012 TC_4	2012 10 11.73998	22 34 59.14	−08 05 10.9	*MPS* 435398	461	
2012 TC_4	2012 10 11.74050	22 34 54.87	−08 05 58.3	*MPS* 435398	461	
2012 TC_4	2012 10 11.74391	22 34 40.28	−08 12 39.6	*MPS* 435398	113	
2012 TC_4	2012 10 11.74481	22 34 32.95	−08 14 01.9	*MPS* 435398	113	
2012 TC_4	2012 10 11.74662	22 34 18.19	−08 16 48.2	*MPS* 435398	113	
2012 TC_4	2012 10 11.74752	22 34 10.79	−08 18 11.0	*MPS* 435398	113	
2012 TC_4	2012 10 11.74842	22 34 03.34	−08 19 35.3	*MPS* 435398	113	
2013 GU_{136}	2013 04 05.56132	14 08 46.369	−10 29 18.23	*MPS* 626886	568	
2013 GH_{137}	2013 02 08.65196	14 18 26.247	−13 40 36.72	*MPS* 626887	568	
2013 GJ_{137}	2014 03 28.44948	14 27 12.186	−13 00 36.03	*MPS* 626887	568	
2013 JO_{65}	2014 04 04.52511	15 52 32.543	−11 00 52.85	*MPS* 626896	568	
2014 OH_{395}	2002 03 05.210960	10 39 23.930	+06 16 55.15	*MPS* 806619	645	
2014 OH_{395}	2002 03 05.214432	10 39 23.766	+06 16 56.44	*MPS* 806619	645	
2016 AN_{36}	2003 01 28.354419	08 56 33.52	+08 26 13.9	*MPS* 804929	645	
2016 AN_{36}	2003 01 28.355248	08 56 33.47	+08 26 13.9	*MPS* 804929	645	
2016 AN_{36}	2003 01 28.357736	08 56 33.31	+08 26 14.0	*MPS* 804929	645	
2016 FO_{42}	2016 04 03.24091	12 50 25.73	+06 38 17.7	*MPS* 719674	G45	
2016 CJ_{266}	2015 07 26.58373	03 56 55.845	+16 43 25.54	*MPS* 808012	F51	
2016 CJ_{266}	2015 07 26.58896	03 56 56.654	+16 43 27.80	*MPS* 808012	F51	
2016 CJ_{266}	2015 07 26.59423	03 56 57.466	+16 43 29.93	*MPS* 808012	F51	
2016 CJ_{266}	2015 07 26.59943	03 56 58.304	+16 43 32.11	*MPS* 808012	F51	
2017 BM_{31}	2017 07 08.980185	17 23 15.57	+25 22 46.1	*MPS* 804929	Z80	
2017 BM_{31}	2017 07 08.983890	17 23 18.62	+25 21 53.6	*MPS* 804929	Z80	
2017 BM_{31}	2017 07 08.987588	17 23 21.65	+25 21 00.0	*MPS* 804929	Z80	
2017 BM_{31}	2017 07 08.991285	17 23 24.71	+25 20 07.3	*MPS* 804929	Z80	
2017 CS	2017 06 04.951858	19 11 14.89	+32 45 00.6	*MPS* 800633	Z92	
2017 CS	2017 06 04.958706	19 11 21.39	+32 44 11.1	*MPS* 800633	Z92	
2017 CS	2017 06 04.965639	19 11 27.92	+32 43 19.2	*MPS* 800633	Z92	

2017 CS	2017 06 04.972554	19	11	34.42	+32	42	29.3	*MPS* 800633	Z92	2017 QJ_{36}	2017 09 16.90047	23	01	19.22	+02	07	13.0	*MPS* 817122	583
2017 CS	2017 06 04.975887	19	11	37.54	+32	42	04.6	*MPS* 800633	Z92	2017 QJ_{36}	2017 09 16.91976	23	01	17.94	+02	07	12.1	*MPS* 817122	583
2017 MB_1	2017 07 08.998958	21	09	46.29	−02	00	30.4	*MPS* 804931	Z80	(43491)	2014 04 04.253157	10	23	52.088	−14	08	26.64	*MPS* 523533	568
2017 MB_1	2017 07 09.003409	21	09	47.53	−02	00	21.0	*MPS* 804931	Z80	(43491)	2014 04 04.256030	10	23	52.009	−14	08	25.13	*MPS* 523533	568
2017 MB_1	2017 07 09.007860	21	09	48.72	−02	00	12.1	*MPS* 804931	Z80	(43491)	2014 04 04.258905	10	23	51.934	−14	08	23.65	*MPS* 523533	568
2017 MC_4	2017 07 08.924653	17	53	53.08	−02	47	42.3	*MPS* 804931	Z80	(124462)	2001 08 16.39100	01	48	39.95	+11	01	10.7	*MPS* 36319	704
2017 MC_4	2017 07 08.925978	17	53	48.92	−02	47	27.0	*MPS* 804931	Z80	(124462)	2001 08 16.40295	01	48	40.36	+11	01	15.3	*MPS* 36319	704
2017 MC_4	2017 07 08.927315	17	53	44.84	−02	47	11.4	*MPS* 804931	Z80	(124462)	2001 08 16.41488	01	48	40.75	+11	01	20.0	*MPS* 36319	704
2017 MC_4	2017 07 08.928642	17	53	40.80	−02	46	55.9	*MPS* 804931	Z80	(124462)	2001 08 16.43875	01	48	41.44	+11	01	31.0	*MPS* 36319	704
2017 MC_4	2017 07 08.929977	17	53	36.82	−02	46	41.0	*MPS* 804931	Z80	(459872)	2014 03 18.99404	12	09	46.59	−26	58	33.7	*MPS* 506830	950
2017 MC_4	2017 07 08.931312	17	53	32.64	−02	46	24.9	*MPS* 804931	Z80	(459872)	2014 03 18.99528	12	09	46.08	−26	58	36.4	*MPS* 506830	950
2017 MC_4	2017 07 08.934146	17	53	24.01	−02	45	51.6	*MPS* 804931	Z80	(459872)	2014 03 18.99650	12	09	45.58	−26	58	39.3	*MPS* 506830	950
2017 MC_4	2017 07 08.935283	17	53	20.50	−02	45	38.9	*MPS* 804931	Z80	(459872)	2014 03 18.99774	12	09	45.09	−26	58	41.9	*MPS* 506830	950
2017 MC_4	2017 07 08.936420	17	53	17.05	−02	45	25.3	*MPS* 804932	Z80	(459872)	2014 03 18.99898	12	09	44.56	−26	58	44.9	*MPS* 506830	950
2017 MC_4	2017 07 08.937554	17	53	13.55	−02	45	12.5	*MPS* 804932	Z80	(459872)	2014 03 19.00022	12	09	44.14	−26	58	47.0	*MPS* 506830	950
2017 MC_4	2017 07 08.938691	17	53	10.04	−02	44	59.7	*MPS* 804932	Z80	(459872)	2014 03 19.00146	12	09	43.59	−26	58	49.8	*MPS* 506830	950
2017 MC_4	2017 07 08.939826	17	53	06.60	−02	44	46.3	*MPS* 804932	Z80	(459872)	2014 03 19.00270	12	09	43.07	−26	58	52.6	*MPS* 506830	950
2017 MC_4	2017 07 08.940963	17	53	03.04	−02	44	33.1	*MPS* 804932	Z80	(459872)	2014 03 19.00397	12	09	42.56	−26	58	55.0	*MPS* 506830	950
2017 MC_4	2017 07 08.942101	17	52	59.57	−02	44	20.0	*MPS* 804932	Z80	(459872)	2014 03 19.00521	12	09	42.07	−26	58	58.0	*MPS* 506830	950
2017 MC_4	2017 07 08.943236	17	52	56.07	−02	44	06.5	*MPS* 804932	Z80	(495997)	2016 12 01.44230	10	41	09.82	+29	03	13.5	*MPS* 762181	G45
2017 MC_4	2017 07 08.944369	17	52	52.59	−02	43	53.4	*MPS* 804932	Z80	(495997)	2016 12 01.44372	10	41	09.97	+29	03	13.8	*MPS* 762181	G45
2017 NB	2017 07 01.30347	14	16	28.24	+33	25	27.5	*MPS* 803688	703	(495997)	2016 12 01.44811	10	41	10.48	+29	03	14.8	*MPS* 762181	G45
2017 NB	2017 07 01.30396	14	16	30.62	+33	25	04.6	*MPS* 803688	703	(495997)	2016 12 01.44831	10	41	10.50	+29	03	14.6	*MPS* 762181	G45
2017 NB	2017 07 01.30444	14	16	32.94	+33	24	42.2	*MPS* 803688	703	(495997)	2016 12 01.45304	10	41	11.06	+29	03	15.3	*MPS* 762181	G45
2017 NB	2017 07 01.30493	14	16	35.31	+33	24	18.8	*MPS* 803688	703	(495997)	2016 12 01.45321	10	41	11.04	+29	03	15.2	*MPS* 762181	G45
2017 NH	2017 07 08.958810	17	28	31.14	+21	18	25.7	*MPS* 804932	Z80	(495997)	2016 12 01.45810	10	41	11.60	+29	03	15.8	*MPS* 762181	G45
2017 NH	2017 07 08.960297	17	28	30.92	+21	18	54.2	*MPS* 804932	Z80	(495997)	2016 12 01.45827	10	41	11.62	+29	03	15.9	*MPS* 762181	G45
2017 NH	2017 07 08.961782	17	28	30.71	+21	19	22.7	*MPS* 804932	Z80	(495997)	2016 12 01.46323	10	41	12.18	+29	03	16.9	*MPS* 762181	G45
2017 NH	2017 07 08.963266	17	28	30.51	+21	19	51.2	*MPS* 804932	Z80	(495997)	2016 12 01.46343	10	41	12.22	+29	03	17.3	*MPS* 762181	G45
2017 NH	2017 07 08.964745	17	28	30.30	+21	20	18.8	*MPS* 804932	Z80	C/2017K2	2013 05 12.587567	17	49	49.520	+70	25	01.15	*MPC* 105321	568
2017 NH	2017 07 08.966221	17	28	30.11	+21	20	46.7	*MPS* 804932	Z80	C/2017K2	2013 05 12.595074	17	49	49.373	+70	25	01.74	*MPC* 105321	568
2017 NH	2017 07 08.967697	17	28	29.92	+21	21	15.1	*MPS* 804932	Z80	C/2017K2	2013 05 12.602580	17	49	49.217	+70	25	02.45	*MPC* 105321	568
2017 NH	2017 07 08.969172	17	28	29.73	+21	21	43.1	*MPS* 804932	Z80	C/2017K2	2013 05 13.607057	17	49	25.581	+70	26	18.60	*MPC* 105321	568
2017 NH	2017 07 08.970646	17	28	29.50	+21	22	10.5	*MPS* 804932	Z80	73P	2017 03 10.37175	20	32	52.92	−20	18	36.4	*MPC* 105336	W88
2017 NH	2017 07 08.972124	17	28	29.32	+21	22	39.0	*MPS* 804932	Z80	73P	2017 03 10.37250	20	32	53.14	−20	18	36.4	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.00178	20	26	28.96	+33	59	07.2	*MPS* 812134	Z80	73P	2017 03 10.37326	20	32	53.42	−20	18	35.6	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.00420	20	26	29.42	+33	58	52.0	*MPS* 812134	Z80	73P	2017 03 10.38475	20	32	56.93	−20	18	31.3	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.00662	20	26	29.89	+33	58	36.7	*MPS* 812134	Z80	73P	2017 03 10.38552	20	32	57.21	−20	18	30.6	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.01039	20	26	30.67	+33	58	13.8	*MPS* 812134	Z80	73P	2017 03 10.38625	20	32	57.41	−20	18	30.3	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.01388	20	26	31.29	+33	57	52.2	*MPS* 812134	Z80	73P	2017 03 10.38703	20	32	57.62	−20	18	30.2	*MPC* 105336	W88
2017 PT_{25}	2017 08 24.01690	20	26	31.88	+33	57	33.6	*MPS* 812134	Z80	73P	2017 05 01.40511	00	07	03.49	−07	19	35.0	*MPC* 104095	G39
2017 PT_{25}	2017 08 24.02053	20	26	32.56	+33	57	10.7	*MPS* 812134	Z80	73P	2017 05 01.40626	00	07	03.74	−07	19	33.8	*MPC* 104095	G39
2017 PH_{26}	2017 08 16.56886	03	08	18.195	−39	12	37.37	*MPS* 810457	F51	73P	2017 05 01.40739	00	07	03.89	−07	19	32.7	*MPC* 104095	G39
2017 PH_{26}	2017 08 16.61511	03	08	24.847	−39	12	40.52	*MPS* 810457	F51	73P	2017 05 01.40852	00	07	04.13	−07	19	31.7	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.975564	17	50	03.63	+37	36	49.9	*MPS* 812134	Z80	73P	2017 05 01.41023	00	07	04.45	−07	19	30.3	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.980220	17	49	59.05	+37	38	11.4	*MPS* 812134	Z80	73P	2017 05 01.41136	00	07	04.67	−07	19	29.0	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.983859	17	49	55.55	+37	39	15.0	*MPS* 812134	Z80	73P	2017 05 01.41251	00	07	04.86	−07	19	27.8	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.986279	17	49	53.11	+37	39	58.1	*MPS* 812134	Z80	73P	2017 05 02.40459	00	10	07.81	−07	03	22.2	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.990515	17	49	49.04	+37	41	12.5	*MPS* 812134	Z80	73P	2017 05 02.40572	00	10	08.03	−07	03	20.8	*MPC* 104095	G39
2017 PL_{26}	2017 08 23.993183	17	49	46.41	+37	41	58.8	*MPS* 812134	Z80	73P	2017 05 02.40742	00	10	08.26	−07	03	18.9	*MPC* 104095	G39
2017 QJ_{36}	2017 09 16.82806	23	01	23.60	+02	07	16.6	*MPS* 817122	583	73P	2017 05 02.40913	00	10	08.63	−07	03	17.7	*MPC* 104095	G39
2017 QJ_{36}	2017 09 16.85311	23	01	22.09	+02	07	15.5	*MPS* 817122	583	73P	2017 05 02.41196	00	10	09.19	−07	03	13.6	*MPC* 104095	G39
2017 QJ_{36}	2017 09 16.87280	23	01	20.79	+02	07	14.1	*MPS* 817122	583	73P	2017 05 03.40533	00	13	10.35	−06	47	14.1	*MPC* 104095	G39

73P	2017 05 03.40760	00 13 10.77	−06 47 12.0	*MPC*104095		G39
73P	2017 05 03.40930	00 13 11.14	−06 47 09.8	*MPC*104095		G39
73P	2017 05 03.41157	00 13 11.50	−06 47 07.6	*MPC*104095		G39
73P	2017 05 03.41330	00 13 11.82	−06 47 06.9	*MPC*104095		G39
73P	2017 05 04.40526	00 16 10.85	−06 31 14.2	*MPC*104095		G39
73P	2017 05 04.40696	00 16 11.12	−06 31 12.5	*MPC*104095		G39
73P	2017 05 04.40924	00 16 11.56	−06 31 09.9	*MPC*104095		G39
73P	2017 05 04.41151	00 16 11.89	−06 31 07.9	*MPC*104095		G39
73P	2017 05 04.41322	00 16 12.29	−06 31 05.6	*MPC*104095		G39
73P	2017 05 05.40525	00 19 09.36	−06 15 21.7	*MPC*104095		G39
73P	2017 05 05.40695	00 19 09.63	−06 15 19.8	*MPC*104095		G39
73P	2017 05 05.40859	00 19 09.97	−06 15 18.0	*MPC*104095		W96
73P	2017 05 05.40865	00 19 09.99	−06 15 18.6	*MPC*104095		G39
73P	2017 05 05.41157	00 19 10.44	−06 15 16.1	*MPC*104095		G39
73P	2017 05 05.41327	00 19 10.78	−06 15 14.3	*MPC*104095		G39
73P	2017 05 05.41330	00 19 10.79	−06 15 14.0	*MPC*104095		W96
73P	2017 05 05.41833	00 19 11.72	−06 15 09.0	*MPC*104095		W96
73P	2017 05 06.40357	00 22 05.59	−05 59 38.8	*MPC*104095		W96
73P	2017 05 06.40586	00 22 06.00	−05 59 37.3	*MPC*104095		G39
73P	2017 05 06.40813	00 22 06.35	−05 59 34.8	*MPC*104095		G39
73P	2017 05 06.40978	00 22 06.76	−05 59 32.1	*MPC*104095		W96
73P	2017 05 06.40984	00 22 06.74	−05 59 33.0	*MPC*104095		G39
73P	2017 05 06.41211	00 22 07.09	−05 59 30.4	*MPC*104095		G39
73P	2017 05 06.41381	00 22 07.41	−05 59 29.4	*MPC*104095		G39
73P	2017 05 06.41583	00 22 07.74	−05 59 27.2	*MPC*104095		W96
73P-BT	2017 03 10.37098	20 32 53.41	−20 18 40.0	*MPC*105336		W88
73P-BT	2017 03 10.37175	20 32 53.65	−20 18 40.5	*MPC*105336		W88
73P-BT	2017 03 10.37250	20 32 53.92	−20 18 39.7	*MPC*105336		W88
73P-BT	2017 03 10.37326	20 32 54.15	−20 18 39.2	*MPC*105336		W88
73P-BT	2017 03 10.38475	20 32 57.64	−20 18 34.8	*MPC*105336		W88
73P-BT	2017 03 10.38552	20 32 57.92	−20 18 35.0	*MPC*105336		W88
73P-BT	2017 03 10.38625	20 32 58.15	−20 18 33.8	*MPC*105336		W88
73P-BT	2017 03 10.38703	20 32 58.33	−20 18 33.0	*MPC*105336		W88
J007S	2017 04 01.90850	13 14 36.36	−05 46 44.4	*MPC*104112		G36
J007S	2017 04 02.04328	13 14 32.85	−05 46 19.5	*MPC*104112		G36
J007S	2017 04 02.17171	13 14 29.52	−05 45 55.6	*MPC*104112		G36

IDENTIFICATION CHANGES

Continuation to *MPC* 105299.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N	Obs.
1999 TD_{337}	*1999 10 13.23690	00 43 23.35	+01 38 28.2	1999 TV_{307}	21.0 V			691
1999 TD_{337}	1999 10 13.25769	00 43 22.28	+01 38 25.1	1999 TV_{307}	21.7 V			691
1999 TD_{337}	1999 10 13.27890	00 43 21.18	+01 38 21.1	1999 TV_{307}	21.3 V			691
2002 AS_{210}	*2002 01 15.29165	10 49 34.98	−05 16 54.4	2002 AU_{91}	22.1			807
2002 AS_{210}	2002 01 15.31604	10 49 34.71	−05 16 51.9	2002 AU_{91}	22.2			807
2003 UW_{418}	*2003 10 22.208330	23 54 52.573	+00 17 39.72	2012 CB_{14}	21.51V			645
2003 UW_{418}	2003 10 22.211802	23 54 52.515	+00 17 38.03	2012 CB_{14}	22.43			645
2005 ES_{333}	*2005 03 08.20223	08 45 47.65	+17 10 24.5	2005 EH_{42}	20.6 R			G96
2005 ES_{333}	2005 03 08.20773	08 45 47.51	+17 10 25.3	2005 EH_{42}	20.6 R			G96
2005 ES_{333}	2005 03 08.21321	08 45 47.35	+17 10 26.1	2005 EH_{42}	20.4 R			G96
2005 ES_{333}	2005 03 08.21867	08 45 47.18	+17 10 26.7	2005 EH_{42}	20.6 R			G96
2005 GQ_{229}	*2005 04 11.23438	11 49 27.52	+03 29 36.1	2005 GS_{85}	21.0 R			G96
2005 GQ_{229}	2005 04 11.24218	11 49 27.27	+03 29 37.2	2005 GS_{85}	21.5 R			G96
2005 GQ_{229}	2005 04 11.24996	11 49 27.03	+03 29 38.4	2005 GS_{85}	20.9 R			G96
2005 GQ_{229}	2005 04 11.25782	11 49 26.78	+03 29 39.6	2005 GS_{85}	21.4 R			G96
2006 KW_{145}	*2006 05 30.25066	15 21 09.97	−10 37 52.5	2006 JE_{35}	21.2 V			G96
2006 KW_{145}	2006 05 30.25727	15 21 09.68	−10 37 51.4	2006 JE_{35}	21.1 V			G96
2006 KW_{145}	2006 05 30.26385	15 21 09.32	−10 37 50.9	2006 JE_{35}	21.1 V			G96
2006 KW_{145}	2006 05 30.27043	15 21 09.03	−10 37 48.6	2006 JE_{35}	21.6 V			G96
2007 EV_{225}	*2007 03 14.24681	09 13 05.05	+13 51 28.2	2007 BB_{101}	21.8 V			G96
2007 EV_{225}	2007 03 14.25487	09 13 04.83	+13 51 29.6	2007 BB_{101}	21.1 V			G96
2007 EV_{225}	2007 03 14.26285	09 13 04.72	+13 51 30.8	2007 BB_{101}	21.5 V			G96
2007 EV_{225}	2007 03 14.27094	09 13 04.51	+13 51 32.5	2007 BB_{101}	21.8 V			G96
2007 PY_{50}	*2007 08 10.43675	23 20 42.80	−03 10 44.3	2013 HH_{77}				291
2007 PY_{50}	2007 08 10.44048	23 20 42.65	−03 10 44.8	2013 HH_{77}				291
2007 PY_{50}	2007 08 10.44422	23 20 42.53	−03 10 44.6	2013 HH_{77}				291
2007 TX_{454}	*2007 10 12.19830	00 38 23.31	−02 00 55.1	2007 RQ_{201}	19.9 V			703
2007 TX_{454}	2007 10 12.20579	00 38 22.88	−02 01 05.5	2007 RQ_{201}	20.3 V			703
2007 TX_{454}	2007 10 12.21324	00 38 22.41	−02 01 12.2	2007 RQ_{201}	19.5 V			703
2007 TX_{454}	2007 10 12.22064	00 38 22.02	−02 01 24.7	2007 RQ_{201}	19.9 V			703
2007 VT_{337}	*2007 11 06.27523	01 36 19.00	+05 27 45.1	2007 TH_{208}				291
2007 VT_{337}	2007 11 06.27901	01 36 18.88	+05 27 44.8	2007 TH_{208}				291
2007 VT_{337}	2007 11 06.28275	01 36 18.71	+05 27 44.1	2007 TH_{208}				291
2008 DC_{90}	*2008 02 26.30210	10 12 45.28	+08 46 29.3	2008 CJ_{130}	21.2 V			G96
2008 DC_{90}	2008 02 26.31022	10 12 44.82	+08 46 31.8	2008 CJ_{130}	21.7 V			G96
2008 DC_{90}	2008 02 26.31832	10 12 44.31	+08 46 34.0	2008 CJ_{130}	20.8 V			G96
2008 DC_{90}	2008 02 26.32644	10 12 43.84	+08 46 36.1	2008 CJ_{130}	21.1 V			G96
2008 FM_{138}	*2008 03 28.23943	13 47 09.14	−02 40 10.0	2008 EV_{156}	21.0 V			691
2008 FM_{138}	2008 03 28.25703	13 47 08.53	−02 39 59.0	2008 EV_{156}	20.7 V			691
2008 FM_{138}	2008 03 28.27464	13 47 07.84	−02 39 47.4	2008 EV_{156}	21.0 V			691
2008 FM_{138}	2008 04 05.24491	13 41 49.93	−01 11 25.0	2008 EV_{156}	20.9 V			691
2008 FM_{138}	2008 04 05.25761	13 41 49.36	−01 11 16.5	2008 EV_{156}	20.6 V			691
2008 FM_{138}	2008 04 05.26771	13 41 48.91	−01 11 09.5	2008 EV_{156}	20.5 V			691
2008 UW_{373}	*2008 10 25.25319	01 05 19.24	+02 45 57.0	2008 SR_{110}	20.8 V			G96
2008 UW_{373}	2008 10 25.25807	01 05 18.96	+02 45 56.7	2008 SR_{110}	21.0 V			G96
2008 UW_{373}	2008 10 25.26301	01 05 18.74	+02 45 56.5	2008 SR_{110}	21.0 V			G96
2008 UW_{373}	2008 10 25.26793	01 05 18.45	+02 45 55.8	2008 SR_{110}	21.0 V			G96
2008 VP_{81}	*2008 11 02.26086	03 39 47.97	+26 06 36.9	2008 UW_{298}				691
2008 VP_{81}	2008 11 02.27860	03 39 47.02	+26 06 35.3	2008 UW_{298}				691
2008 VP_{81}	2008 11 02.29633	03 39 46.12	+26 06 33.5	2008 UW_{298}				691
2009 EA_{32}	*2009 03 02.26837	10 23 57.48	+20 07 57.1	2009 BO_{190}	20.4 V			G96
2009 EA_{32}	2009 03 02.27606	10 23 57.08	+20 07 59.7	2009 BO_{190}	20.6 V			G96
2009 EA_{32}	2009 03 02.28382	10 23 56.72	+20 08 02.4	2009 BO_{190}	20.6 V			G96
2009 EA_{32}	2009 03 02.29155	10 23 56.36	+20 08 04.9	2009 BO_{190}	20.5 V			G96
2009 JL_{19}	*2009 05 03.89248	13 05 37.83	−11 56 55.9	2009 HW_{58}				J95
2009 JL_{19}	2009 05 03.91047	13 05 37.07	−11 56 48.9	2009 HW_{58}	19.6 R			J95
2009 JM_{19}	*2009 05 14.22778	13 04 41.23	−03 58 55.9	2009 HR_{52}	20.6 V			G96
2009 JM_{19}	2009 05 14.23662	13 04 40.90	−03 58 56.6	2009 HR_{52}	20.6 V			G96
2009 JM_{19}	2009 05 14.24552	13 04 40.65	−03 58 57.0	2009 HR_{52}	21.1 V			G96
2009 JM_{19}	2009 05 14.25426	13 04 40.36	−03 58 58.0	2009 HR_{52}	20.6 V			G96
2009 RU_{76}	*2009 09 15.22413	22 54 49.64	+34 41 23.6	1998 XL_2	20.5 V			703
2009 RU_{76}	2009 09 15.23085	22 54 49.17	+34 41 19.2	1998 XL_2	19.3 V			703
2009 RU_{76}	2009 09 15.23756	22 54 48.81	+34 41 15.1	1998 XL_2	20.3 V			703
2009 RU_{76}	2009 09 15.24428	22 54 48.49	+34 41 12.5	1998 XL_2	20.1 V			703

2009 SE_{370}	*2009 09 28.29313	01 20 41.41	+07 41 16.8	2009 RA_{68}	20.9	V	691
2009 SE_{370}	2009 09 28.31086	01 20 40.77	+07 41 16.4	2009 RA_{68}	20.7	V	691
2009 SE_{370}	2009 09 28.32847	01 20 40.10	+07 41 14.6	2009 RA_{68}	20.4	V	691
2009 UC_{159}	*2009 10 26.34455	02 10 56.42	+09 35 52.4	2009 UF_{95}	20.4	V	G96
2009 UC_{159}	2009 10 26.34712	02 10 56.20	+09 35 51.7	2009 UF_{95}	20.6	V	G96
2009 UC_{159}	2009 10 26.34966	02 10 56.13	+09 35 51.5	2009 UF_{95}	20.4	V	G96
2009 UC_{159}	2009 10 26.35228	02 10 55.95	+09 35 49.9	2009 UF_{95}	20.4	V	G96
2009 WP_{269}	*2009 11 23.27832	03 30 21.06	+15 43 45.0	2009 WB_{58}	20.8	V	G96
2009 WP_{269}	2009 11 23.28419	03 30 20.70	+15 43 45.4	2009 WB_{58}	20.7	V	G96
2009 WP_{269}	2009 11 23.28997	03 30 20.37	+15 43 44.7	2009 WB_{58}	20.9	V	G96
2009 WP_{269}	2009 11 23.29581	03 30 20.01	+15 43 43.8	2009 WB_{58}	20.4	V	G96
2009 WQ_{269}	*2009 11 22.36026	05 38 27.56	+15 43 10.1	2009 VJ_{101}	19.4	V	703
2009 WQ_{269}	2009 11 22.36579	05 38 27.27	+15 43 09.3	2009 VJ_{101}	19.8	V	703
2009 WQ_{269}	2009 11 22.37133	05 38 26.98	+15 43 08.3	2009 VJ_{101}	19.4	V	703
2009 WQ_{269}	2009 11 22.37684	05 38 26.70	+15 43 05.7	2009 VJ_{101}	19.6	V	703
2009 WR_{269}	*2009 11 23.28123	03 51 10.83	+15 34 26.0	2009 VT_{98}	20.1	V	G96
2009 WR_{269}	2009 11 23.28708	03 51 10.47	+15 34 25.1	2009 VT_{98}	20.2	V	G96
2009 WR_{269}	2009 11 23.29292	03 51 10.08	+15 34 24.4	2009 VT_{98}	20.2	V	G96
2009 WR_{269}	2009 11 23.29872	03 51 09.75	+15 34 23.5	2009 VT_{98}	20.5	V	G96
2009 WS_{269}	*2009 11 23.31447	03 56 22.77	+14 34 05.5	2009 VB_{48}	21.3	V	G96
2009 WS_{269}	2009 11 23.32145	03 56 22.41	+14 34 05.8	2009 VB_{48}	20.7	V	G96
2009 WS_{269}	2009 11 23.32839	03 56 21.98	+14 34 03.8	2009 VB_{48}	21.1	V	G96
2009 WS_{269}	2009 11 23.33537	03 56 21.51	+14 34 03.1	2009 VB_{48}	21.0	V	G96
2010 DR_{93}	*2010 02 17.33679	09 32 44.80	+10 05 17.8	2010 CB_{88}	21.1	V	G96
2010 DR_{93}	2010 02 17.34208	09 32 44.55	+10 05 18.9	2010 CB_{88}	21.4	V	G96
2010 DR_{93}	2010 02 17.34745	09 32 44.19	+10 05 19.3	2010 CB_{88}	21.5	V	G96
2010 DR_{93}	2010 02 17.35291	09 32 43.90	+10 05 20.4	2010 CB_{88}	21.4	V	G96
2010 DS_{93}	*2010 02 18.32779	09 09 23.40	+17 24 46.6	2010 DG_{50}	21.3	V	G96
2010 DS_{93}	2010 02 18.32943	09 09 23.32	+17 24 46.2	2010 DG_{50}	20.9	V	G96
2010 DS_{93}	2010 02 18.33108	09 09 23.22	+17 24 46.9	2010 DG_{50}	21.1	V	G96
2010 DS_{93}	2010 02 18.33438	09 09 23.07	+17 24 47.3	2010 DG_{50}	21.5	V	G96
2010 TV_{192}	*2010 10 12.26539	00 23 36.96	−03 21 58.7	2010 RB_{171}	20.7	V	G96
2010 TV_{192}	2010 10 12.26632	00 23 36.92	−03 21 59.9	2010 RB_{171}	20.9	V	G96
2010 TV_{192}	2010 10 12.26723	00 23 36.85	−03 22 01.2	2010 RB_{171}	20.7	V	G96
2010 TV_{192}	2010 10 12.26815	00 23 36.81	−03 22 02.4	2010 RB_{171}	20.5	V	G96
2010 TZ_{192}	*2010 10 08.16237	00 02 34.51	+03 00 53.0	2010 TZ_{31}	20.8	V	691
2010 TZ_{192}	2010 10 08.18368	00 02 33.74	+03 00 47.6	2010 TZ_{31}	21.0	V	691
2010 TZ_{192}	2010 10 08.20153	00 02 33.05	+03 00 43.1	2010 TZ_{31}	21.2	V	691
2010 UN_{108}	*2010 10 29.20938	03 41 02.05	+23 00 59.6	2010 UT_{25}	20.9	V	691
2010 UN_{108}	2010 10 29.22713	03 41 01.14	+23 01 01.1	2010 UT_{25}	21.2	V	691
2010 UN_{108}	2010 10 29.24487	03 41 00.34	+23 01 01.9	2010 UT_{25}	21.3	V	691
2010 VQ_{225}	*2010 11 11.22613	01 45 46.51	+21 23 58.5	2010 VO_{99}	19.5	V	703
2010 VQ_{225}	2010 11 11.23189	01 45 46.26	+21 23 56.0	2010 VO_{99}	20.0	V	703
2010 VQ_{225}	2010 11 11.23764	01 45 46.00	+21 23 54.7	2010 VO_{99}	20.0	V	703
2010 VQ_{225}	2010 11 11.24341	01 45 45.64	+21 23 51.6	2010 VO_{99}	20.1	V	703
2011 EN_{88}	*2011 03 09.32440	11 36 16.48	+10 57 38.7	2009 VA_{28}	20.7	V	G96
2011 EN_{88}	2011 03 09.33135	11 36 16.20	+10 57 41.5	2009 VA_{28}	21.3	V	G96
2011 EN_{88}	2011 03 09.33838	11 36 15.73	+10 57 43.4	2009 VA_{28}	20.9	V	G96
2011 EN_{88}	2011 03 09.34537	11 36 15.40	+10 57 45.7	2009 VA_{28}	21.3	V	G96
2011 FW_{158}	*2011 03 31.35971	12 02 41.910	−05 46 35.19	2011 FW_{89}	22.2	w	F51
2011 FW_{158}	2011 03 31.37526	12 02 41.204	−05 46 30.08	2011 FW_{89}	22.0	w	F51
2011 FW_{158}	2011 03 31.39182	12 02 40.461	−05 46 24.48	2011 FW_{89}	22.0	w	F51
2011 FW_{158}	2011 03 31.40736	12 02 39.748	−05 46 19.19	2011 FW_{89}	22.0	w	F51
2011 GO_{89}	*2011 04 01.39314	13 04 56.20	−01 02 59.4	2013 WD_{108}	21.1	V	G96
2011 GO_{89}	2011 04 01.40073	13 04 55.81	−01 02 56.8	2013 WD_{108}	20.8	V	G96
2011 GO_{89}	2011 04 01.40826	13 04 55.48	−01 02 53.5	2013 WD_{108}	20.7	V	G96
2011 GO_{89}	2011 04 01.41590	13 04 55.12	−01 02 51.0	2013 WD_{108}	20.6	V	G96
2011 OM_{60}	*2011 07 28.57045	21 15 14.61	−33 25 23.9	2011 LD_{27}	19.1	V	E12
2011 OM_{60}	2011 07 28.58353	21 15 14.00	−33 25 51.8	2011 LD_{27}	19.4	V	E12
2011 OM_{60}	2011 07 28.59700	21 15 13.39	−33 26 21.2	2011 LD_{27}	19.1	V	E12
2011 OM_{60}	2011 07 28.61034	21 15 12.67	−33 26 50.4	2011 LD_{27}	19.8	V	E12
2011 OM_{60}	2011 07 28.70082	21 15 08.58	−33 30 05.0	2011 LD_{27}			E12
2011 OM_{60}	2011 07 29.54913	21 14 34.87	−34 00 27.3	2011 LD_{27}	19.8	V	E12
2011 OM_{60}	2011 07 29.55436	21 14 34.65	−34 00 38.1	2011 LD_{27}	19.8	V	E12
2011 OM_{60}	2011 07 29.56002	21 14 34.33	−34 00 51.1	2011 LD_{27}	19.7	V	E12
2011 OM_{60}	2011 07 29.56582	21 14 34.11	−34 01 02.5	2011 LD_{27}	19.4	V	E12
2011 UP_{413}	*2011 10 30.25784	01 38 11.11	+05 19 34.2	2011 UH_{228}	21.0	V	G96
2011 UP_{413}	2011 10 30.26534	01 38 10.68	+05 19 31.1	2011 UH_{228}	21.1	V	G96
2011 UP_{413}	2011 10 30.27285	01 38 10.24	+05 19 28.3	2011 UH_{228}	21.9	V	G96
2011 UP_{413}	2011 10 30.28043	01 38 09.96	+05 19 26.4	2011 UH_{228}	21.6	V	G96
2011 WU_{157}	*2011 11 27.29852	03 59 04.16	+13 55 36.7	2013 JC_{56}	20.4	V	G96
2011 WU_{157}	2011 11 27.30713	03 59 03.58	+13 55 35.7	2013 JC_{56}	20.5	V	G96
2011 WU_{157}	2011 11 27.31582	03 59 03.04	+13 55 34.6	2013 JC_{56}	21.0	V	G96
2011 WU_{157}	2011 11 27.32446	03 59 02.47	+13 55 33.7	2013 JC_{56}	20.8	V	G96
2013 NU_{24}	*2013 07 14.51645	22 11 12.689	−14 10 53.58	2001 FG_{204}	22.0	w	F51
2013 NU_{24}	2013 07 14.53191	22 11 12.348	−14 10 57.07	2001 FG_{204}	22.1	w	F51
2013 NU_{24}	2013 07 14.54826	22 11 12.005	−14 11 00.63	2001 FG_{204}	21.9	w	F51
2013 TQ_{159}	*2013 10 12.18326	00 37 05.25	+02 27 13.7	2013 TK_{88}	21.5	V	G96
2013 TQ_{159}	2013 10 12.19082	00 37 04.81	+02 27 11.6	2013 TK_{88}	21.6	V	G96
2013 TQ_{159}	2013 10 12.19843	00 37 04.40	+02 27 10.2	2013 TK_{88}	21.3	V	G96
2013 TQ_{159}	2013 10 12.20607	00 37 04.02	+02 27 08.0	2013 TK_{88}	21.0	V	G96
2014 BD_{65}	*2014 01 25.55317	10 03 10.140	+02 43 44.60	2012 SG_{35}	21.4	r	F51
2014 BD_{65}	2014 01 25.55472	10 03 10.051	+02 43 44.76	2012 SG_{35}	21.3	r	F51
2014 BD_{65}	2014 01 25.55627	10 03 09.989	+02 43 45.17	2012 SG_{35}	21.5	r	F51
2014 BD_{65}	2014 01 25.55783	10 03 09.921	+02 43 45.24	2012 SG_{35}	21.5	r	F51
2014 BD_{65}	2014 01 25.56407	10 03 09.623	+02 43 46.18	2012 SG_{35}	21.5	r	F51
2014 GS_{54}	*2014 04 09.43070	15 20 57.82	+25 34 55.3	2014 JD_{56}	21.2	V	G96
2014 GS_{54}	2014 04 09.43797	15 20 57.49	+25 35 00.6	2014 JD_{56}	21.4	V	G96
2014 GS_{54}	2014 04 09.44529	15 20 57.16	+25 35 07.2	2014 JD_{56}	21.2	V	G96
2014 GS_{54}	2014 04 09.45256	15 20 56.85	+25 35 12.8	2014 JD_{56}	20.7	V	G96
2014 US_{225}	*2014 10 23.28803	02 04 26.41	+02 33 20.2	2013 GT	19.9	R	G32
2014 US_{225}	2014 10 23.29201	02 04 26.14	+02 33 18.6	2013 GT	20.1	R	G32
2014 US_{225}	2014 10 23.29598	02 04 25.93	+02 33 17.0	2013 GT	19.9	R	G32
2014 VX_{37}	*2014 11 01.28475	01 58 43.90	+06 44 01.9	2014 UG_{193}	20.8	V	703
2014 VX_{37}	2014 11 01.30292	01 58 42.92	+06 43 58.6	2014 UG_{193}	20.5	V	703
2014 YO_{51}	*2014 12 20.22095	04 15 18.02	+22 10 08.2	2014 XU_{34}	20.8	V	G96
2014 YO_{51}	2014 12 20.22782	04 15 17.73	+22 10 06.6	2014 XU_{34}	20.6	V	G96
2014 YO_{51}	2014 12 20.23470	04 15 17.38	+22 10 04.6	2014 XU_{34}	20.7	V	G96
2014 YO_{51}	2014 12 20.24159	04 15 17.03	+22 10 02.7	2014 XU_{34}	20.9	V	G96
2015 BV_{528}	*2015 01 20.38157	09 44 06.77	+10 29 55.8	2015 BU_6	20.9	V	691
2015 BV_{528}	2015 01 20.40187	09 44 05.77	+10 29 55.2	2015 BU_6	20.7	V	691
2015 BV_{528}	2015 01 20.42214	09 44 04.80	+10 29 56.0	2015 BU_6	21.1	V	691
2015 BV_{528}	2015 01 20.54612	09 43 58.788	+10 29 55.51	2015 BU_6	21.4	w	F51
2015 BV_{528}	2015 01 20.55868	09 43 58.149	+10 29 55.39	2015 BU_6	21.4	w	F51
2015 BV_{528}	2015 01 20.57126	09 43 57.526	+10 29 55.41	2015 BU_6	21.5	w	F51
2015 BV_{528}	2015 01 20.58399	09 43 56.891	+10 29 55.15	2015 BU_6	21.3	w	F51

2015 DP_{226}	*2015 02 16.33466	10 22 22.557	+14 39 48.45	2015 BM_{28}	20.0	w	F51
2015 DP_{226}	2015 02 16.35970	10 22 21.098	+14 40 34.31	2015 BM_{28}	19.9	w	F51
2015 DP_{226}	2015 02 16.37228	10 22 20.363	+14 40 57.24	2015 BM_{28}	20.0	w	F51
2015 FL_{393}	*2015 03 22.24778	11 37 19.28	+29 31 34.8	2015 DT_{223}	20.0	V	703
2015 FL_{393}	2015 03 22.25278	11 37 18.91	+29 31 41.1	2015 DT_{223}	19.3	V	703
2015 FL_{393}	2015 03 22.25778	11 37 18.79	+29 31 45.7	2015 DT_{223}	18.9	V	703
2015 FL_{393}	2015 03 22.26278	11 37 18.52	+29 31 52.3	2015 DT_{223}	19.2	V	703
2015 SL_{22}	*2015 09 23.52698	04 05 09.781	+27 07 12.07	2015 WD_1	21.7	w	F51
2015 SL_{22}	2015 09 23.53812	04 05 10.201	+27 07 08.00	2015 WD_1	21.8	w	F51
2015 SL_{22}	2015 09 23.54908	04 05 10.632	+27 07 04.01	2015 WD_1	21.8	w	F51
2015 SL_{22}	2015 09 23.56009	04 05 11.049	+27 06 59.95	2015 WD_1	22.0	w	F51
2016 AF_{200}	*2016 01 09.58830	11 10 05.935	−12 24 58.38	2016 DS_1	21.5	w	F51
2016 AF_{200}	2016 01 09.59889	11 10 06.103	−12 25 03.30	2016 DS_1	21.4	w	F51
2016 AF_{200}	2016 01 09.60972	11 10 06.258	−12 25 08.50	2016 DS_1	21.6	w	F51
2016 AF_{200}	2016 01 09.62033	11 10 06.406	−12 25 13.21	2016 DS_1	21.6	w	F51
2016 EN_{203}	*2016 03 12.50004	13 25 40.498	−13 41 05.71	2016 GW_{126}	21.2	w	F51
2016 EN_{203}	2016 03 12.51274	13 25 40.089	−13 41 03.50	2016 GW_{126}	21.5	w	F51
2016 EN_{203}	2016 03 12.53803	13 25 39.269	−13 40 58.68	2016 GW_{126}	21.1	w	F51
2016 EJ_{207}	*2016 03 12.44719	12 40 52.906	−13 24 23.01	2017 NK_5	21.3	w	F51
2016 EJ_{207}	2016 03 12.46037	12 40 52.294	−13 24 22.84	2017 NK_5	21.5	w	F51
2016 EJ_{207}	2016 03 12.47354	12 40 51.682	−13 24 22.99	2017 NK_5	21.4	w	F51
2016 EJ_{207}	2016 03 12.48672	12 40 51.084	−13 24 23.41	2017 NK_5	21.4	w	F51
2016 MJ_3	*2016 06 21.99818	16 22 52.37	+24 03 36.7	2016 LW_{51}	20.5	R	I57
2016 MJ_3	2016 06 22.00525	16 22 52.02	+24 03 33.0	2016 LW_{51}	20.7	R	I57
2016 MJ_3	2016 06 22.01426	16 22 51.62	+24 03 28.3	2016 LW_{51}	20.2	R	I57
2016 RX_{42}	*2016 09 02.38856	02 22 42.57	+15 24 40.1	2016 UC_{87}	21.8	V	G96
2016 RX_{42}	2016 09 02.39426	02 22 42.70	+15 24 39.9	2016 UC_{87}	21.5	V	G96
2016 RX_{42}	2016 09 02.40001	02 22 42.82	+15 24 40.3	2016 UC_{87}	20.7	V	G96
2016 RX_{42}	2016 09 02.40570	02 22 42.91	+15 24 40.8	2016 UC_{87}	21.4	V	G96
2016 RY_{42}	*2016 09 06.38402	01 44 14.06	+19 27 51.3	2016 UG_{45}	20.1	V	G96
2016 RY_{42}	2016 09 06.39119	01 44 13.96	+19 27 52.3	2016 UG_{45}	19.1	V	G96
2016 RY_{42}	2016 09 06.39828	01 44 13.86	+19 27 53.8	2016 UG_{45}	19.3	V	G96
2016 RY_{42}	2016 09 06.40543	01 44 13.75	+19 27 55.7	2016 UG_{45}	20.0	V	G96
2016 XR_{24}	*2016 12 04.34411	05 30 56.18	+10 57 39.0	2016 YO_6	20.3	V	G96
2016 XR_{24}	2016 12 04.34841	05 30 55.83	+10 57 42.8	2016 YO_6	20.1	V	G96
2016 XR_{24}	2016 12 04.35271	05 30 55.51	+10 57 46.7	2016 YO_6	20.1	V	G96
2016 XR_{24}	2016 12 04.35705	05 30 55.11	+10 57 50.5	2016 YO_6	20.2	V	G96

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 105290:

1995 UA_{22}	= (496509)	1998 TN_{36}	= (496544)	2005 EM_{326}	= (496039)
2005 KN_{13}	= (496659)	2006 WL_{206}	= (496217)	2006 WF_{207}	= (496388)
2010 AZ_{54}	= (496413)	2010 CS_{214}	= (496412)	2010 JD_{22}	= (496413)
2011 KH_7	= (496587)	2013 SZ_{87}	= (496362)	2016 XF_1	= (495997)

NUMBERING OF PERIODIC COMETS

Continuation to the list on *MPC* 105290.

356P/2010 D1 = 2017 O2 (WISE)
357P/2008 T4 = 2017 Q1 (Hill)
358P/2012 T1 = 2017 O3 (PANSTARRS)
359P/2007 RS_{41} = 2017 Q2 (LONEOS)
360P/2010 P4 = 2017 S1 (WISE)
361P/2006 UR_{111} = 2017 S4 (Spacewatch)
362P/2008 GO_{98}

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

089 Nikolaev. Observers M. P. Kaliuzny, F. I. Bushuev, A. V. Pomazan, D. V. Bodryagin, V. F. Kryuchkovskiy, N. Kulichenko, V. Kryuchkovskiy. Measurers D. V. Bodryagin, A. V. Pomazan, N. V. Maigurova, L. E. Bondarchuk. 0.5-m $f/6.0$ Maksutov + CCD.

104 San Marcello Pistoiese. Observers P. Bacci, M. Maestripieri, L. Nesti, M. Carotta, G. Carotta, M. Fragai. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m $f/4$ reflector + CCD.

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

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

108 Montelupo. Observers M. Tombelli, A. Boattini, S. Foglia, S. Bartolini, E. Masotti, M. Lomba. Measurers M. Tombelli, A. Boattini, S. Foglia, M. Lombardo. 0.30-m $f/2.9$ Schmidt-Cassegrain + CCD.

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

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

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

193 Sanglok. Observers G. I. Kokhirova, A. Ivanova, A. M. Buriev, U. Kh. Khamroev, A. A. Ibrohimov, S. K.

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

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

212 Observatorio La Dehesilla. Observer I. Almendros. 0.30-m $f/10$ Schmidt-Cassegrain, 0.30-m $f/10$ Schmidt-Cassegrain + CCD.

213 Observatorio Montcabre. Observer R. Naves. Measurer M. Campas. 0.30-m $f/10$ Schmidt-Cassegrain.

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

245 Spitzer Space Telescope. Observer M. S. P. Kelley. Measurers M. Micheli, D. Farnocchia. 0.85-m reflector.

309 Cerro Paranal. Observer O. Hainaut. Measurer M. Micheli. 8.2-m VLT + CCD.

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

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

372 Geisei. Observers T. Seki, S. Shimomoto. Measurers H. Sato, T. Seki, S. Shimomoto. 0.70-m $f/10$ reflector + CCD + $f/5$ focal reducer.

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

461 University of Szeged, Piszkéstető Stn. (Konkoly). Observers A. Sódor, K. Sárneczky, R. Szakats, A. Ordasi, B. Cseh, B. Ignacz, R. Konyves-Toth. Measurer K. Sárneczky. 0.60-m Schmidt + CCD.

467 Auckland Observatory. Observers G. W. Christie, T. Natusch. Measurer G. W. Christie. 0.40-m $f/10$ Schmidt-Cassegrain + CCD.

511 Haute Provence. Observers L. Maquet, A. Egal, S. Favard, H. Garcia, A. Fougeyrollas, J. P. Sardoulet, C. Taledo, E. Ferrand, A. Quaranta, R. Lavoipierre, J. J. Breton, C. Gaillard. Measurers D. Lecuyer, V. Le Flem, A. Kassis, K. Kitouni, L. Maquet, A. Egal, S. Favard, H. Garcia, A. Fougeyrollas, J. P. Sardoulet, C. Taledo, E. Ferrand, A. Quaranta, R. Lavoipierre, J. J. Breton, C. Gaillard.

568 Mauna Kea. Observers K. J. Meech, J. Kleyna, L. Wells, S. Boissier, D. Woodworth, C. Wipper, J. V. Keane, C. Crowder. Measurers M. Micheli, J. Kleyna, M.-T. Hui. 3.6-m Canada-France-Hawaii Telescope + CCD.

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

585 Kyiv comet station. Observers A. Baransky, S. Borysenko, E. Musiichuk, S. Markovska, Y. Krugly, V. Vasylenko, A. Simon. Measurer A. Baransky. 0.7-m $f/4$ reflector + CCD.

595 Farra d'Isonzo. Observers M. Ceschia, E. Pettarin. Measurer E. Pettarin. 0.61-m $f/4.0$ reflector + CCD.

644 Palomar Mountain/NEAT. Observers M. Brown, R. Bambery, K. Lawrence, M. Hicks, E. Helin, R. Thicksten. 1.2-m Schmidt + CCD.

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

699 Lowell Observatory-LONEOS. Observers S. Karcz, J. J. Sanborn, B. A. Skiff. 0.59-m LONEOS Schmidt + CCD.

703 Catalina Sky Survey. Observers R. A. Kowalski, A. R. Gibbs, J. A. Johnson, D. C. Fuls, R. G. Matheny, G. J. Leonard. Measurers M.-T. Hui, 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 + 10K CCD, 0.68-m Schmidt + CCD.

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

822 Córdoba. Observers R. Artola, E. Pulver, A. Taveira, M. Santucho. Measurers E. Pulver, M. Santucho. 0.36-m $f/5.10$ Schmidt-Cassegrain + CCD.

850 Cordell-Lorenz Observatory, Sewanee. Observer D. T. Durig. Measurers D. T. Durig, H. H. Rice, W. C. Grady, P. C. Parker, J. Y. Zhang. 0.3-m $f/7.6$ Schmidt-Cassegrain + CCD, 0.3-m $f/9.4$ Schmidt-Cassegrain + CCD.

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

970 Chelmsford. Observer N. James. 0.28-m $f/10$ Schmidt-Cassegrain + CCD.

987 Isle of Man Observatory, Foxdale. Observer D. Storey. 0.4-m Schmidt-Cassegrain + CCD.

A24 New Millennium Observatory, Mozzate. Observer E. Cozzi. 0.36-m $f/11$ Schmidt-Cassegrain + CCD.

A29 Santa Maria a Monte. Observers M. Bachini, G. Succi. 0.30-m $f/4$ reflector.

A58 Observatoire de Chalandray-Canotiers. Observer J.-B. de Vanssay. 0.16-m $f/3.3$ reflector + CCD.

A71 Stixendorf. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann. Measurer M. Jaeger. 0.3-m $f/4$ reflector + CCD.

A77 Observatoire Chante-Perdrix, Dauban. Observers J.-F. Soulier, C. Rinner, F. Kugel, J. Nicolas, A. Klotz. Measurers J.-F. Soulier, F. Kugel, J. Nicolas. 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.

B34 Green Island Observatory, Gecitkale. Observer Y. Öğmen. 0.36-m $f/10$ Ritchey-Chrétien + CCD + $f/6.3$ focal reducer.

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

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

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

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

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

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

C27 Pallerols. Observer A. Jorba. 0.36-m $f/8$ Ritchey-Chrétien + CCD.

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

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

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

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

C48 Sayan Solar Observatory, Irkutsk. Observer Y. Karavaev. Measurer T. Tsukker.

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 $f/4.0$ reflector + CCD.

C86 Blanes. Observer J. Gaitan. 0.25-m $f/6.8$ reflector.

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

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

D29 Purple Mountain Observatory, XuYi Station. Observers H. B. Zhao, B. Li, G. Zhaori, R. Q. Hong, L. F. Hu. Measurers H. B. Zhao, B. Li. H. Lu, G. Zhaori, H. J. Tan. 1.04-m $f/1.8$ Schmidt + CCD.

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

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

E10 Siding Spring-Faulkes Telescope South. Observers L. Belli, P. Breitenstein. 1.0-m Ritchey-Chrétien + CCD.

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

F51 Pan-STARRS 1, Haleakala. Observers J. Bulger, T. Goggia, T. Lowe, 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.

F65 Haleakala-Faulkes Telescope North. Observers L. Belli, P. Breitenstein. 2.0-m Ritchey-Chrétien + CCD.

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

G39 ROAD, San Pedro de Atacama. Observers F.-J. Hambsch, E. Bryssinck. Measurer E. Bryssinck. 0.4-m $f/6.8$ astrograph + CCD.

G40 Slooh.com Canary Islands Observatory. Observers B. Lütkenhöner, G. Gašparović, Y. Chen, C. Feliciano, W. F. Cashwell, J. L. Tuten, N. Paul. Measurers B. Lütkenhöner, G. Gašparović, Y. Chen, G. Y. Gasparovic, W. F. Cashwell, J. L. Tuten, N. Paul. 0.36-m $f/11$ Schmidt-Cassegrain + CCD, 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD.

G96 Mt. Lemmon Survey. Observers D. C. Fuls, J. A. Johnson, A. R. Gibbs, 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 + 10K CCD.

H06 iTelescope Observatory, Mayhill. Observers A. Valvasori, H. Sato. 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.

H45 Arkansas Sky Obs., Petit Jean Mountain South. Observer P. C. Sherrod. 0.51-m $f/5.6$ astrograph + CCD.

H47 Vicksburg. Observer C. Bell. 0.3-m Schmidt-Cassegrain + CCD.

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

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

I27 Barred Owl Observatory, Carp. Observer A. Paquette. 0.3-m $f/11$ Schmidt-Cassegrain + CCD.

I47 Pierre Auger Observatory, Malargüe. Observer M. Masek. 0.3-m $f/10$ reflector + CCD.

I57 Elche. Observer J. Lozano. 0.25-m $f/6.3$ Corrected Dall-Kirkham + 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.

I88 Fuensanta de Martos. Observer J. Carrillo. 0.36-m $f/5$ reflector, 0.36-m $f/5$ reflector + CCD.

I89 iTelescope Observatory, Nerpio. Observers B. Lütkenhöner, E. Bryssinck. 0.15-m $f/7.3$ refractor + CCD, 0.43-m $f/6.8$ reflector + CCD.

J01 Observatorio Cielo Profundo, Leon. Observer J. Gonzalez. 0.15-m $f/6.3$ Ritchey-Chrétien + CCD, 0.23-m $f/7$ Schmidt-Cassegrain + CCD.

J04 ESA Optical Ground Station, Tenerife. Observer D. Abreu. Measurers M. Biesiada, M. Busch, F. Hormuth, A. Knöfel, D. Koschny, G. Lehmann, J. Linder, M. Micheli, E. Schwab, S. Shurpakov, T. Thommes, U. Carsenty, P. Geffert, P. Schmeer. 1.0-m $f/4.4$ reflector + CCD.

J22 Tacande Observatory, La Palma. Observer K. Hills. 0.5-m $f/2.9$ astrograph + CCD.

J27 El Guijo Observatory. Observer A. San Segundo. 0.30-m $f/4$ reflector + CCD.

J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m $f/8.1$ Ritchey-Chrétien + CCD.

J43 Oukaïmeden Observatory, Marrakech. Observer M. Ory. 0.5-m $f/3$ reflector + CCD.

J53 Posadas. Observer R. Benavides. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.

K02 Eastwood Observatory, Leigh on Sea. Observer P. Carson. 0.32-m reflector + CCD + $f/5.4$ focal reducer.

K14 Observatorio de Sencelles. Observer M. Morales. 0.25-m Schmidt-Cassegrain + CCD, 0.25-m $f/3.3$ Schmidt-Cassegrain + CCD.

K19 PASTIS Observatory, Banon. No details supplied.

K22 Les Barres Observatory, Lamanon. Observer M. Deldem. 0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.4$ focal reducer.

K24 Schmelz. Observer J. Kohr. 0.25-m $f/6.4$ Schmidt-Cassegrain + CCD.

K25 Haute Provence Sud, Saint-Michel-l'Observatoire. Observer L. Arnold. 0.20-m $f/5.5$ Newtonian reflector + CCD.

K47 BSCR Observatory, Santa Maria a Monte. Observer M. Bachini. 0.25-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer.

K73 Gravina in Puglia. Observer F. Taccogna. 0.20-m $f/5$ Newtonian reflector + CCD.

K77 EHB01 Observatory, Engelhardsberg. Observer R. Fichtl. 0.40-m $f/2.6$ reflector + CCD.

K83 Beppe Forti Astronomical Observatory, Montelupo. Observers M. Lombardo, M. Tombelli, S. Bartolini, Y. Mazzanti, L. Martinelli, P. Fini, O. Peruz. Measurers M. Lombardo, M. Tombelli, S. Bartolini, A. Mazzanti, S. Foglia, L. Martinelli, A. Boattini. 0.25-m $f//6.3$ Cassegrain + CCD.

K87 Dettelbach Vineyard Observatory. Observer B. Haeusler. 0.30-m Schmidt-Cassegrain + CCD.

K91 Sutherland-LCO A. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.

K92 Sutherland-LCO B. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.

K93 Sutherland-LCO C. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.

K97 Freconrupt. Observer P. Ditz. 0.20-m $f/7.4$ reflector + CCD.

L01 Višnjan Observatory, Tican. Observers K. Korlević, M. Fulle, B. Obradovic, V. Opacic, L. Rakijar, S. Skvorc, F. Hrzenjak, T. Sverko, G. Kervina, D. Marusic, E. Pettarin. Measurers L. Rakijar, K. Korlević. 1.00-m reflector + CCD.

L04 ROASTERR-1 Observatory, Cluj-Napoca. Observer L. Hudin. 0.3-m $f/5.0$ reflector + CCD.

L51 MARGO, Nauchnij. Observers G. Borisov, A. Novichonok. Measurer A. Novichonok. 0.3-m $f/2$ astrograph + CCD.

Q11 Shinshiro. Observer T. Ikemura. Measurer H. Sato. 0.35-m $f/5$ 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.

Q58 Siding Spring-LCO Clamshell #1. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 0.4-m $f/8$ Schmidt-Cassegrain + CCD.

Q59 Siding Spring-LCO Clamshell #2. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 0.4-m $f/8$ Schmidt-Cassegrain + CCD.

Q62 iTelescope Observatory, Siding Spring. Observers G. Gašparović, Y. Chen, D. Brandt, H. Sato, G. van Buitenen, G. Crinklaw, D. Storey, N. Paul, S. Foglia, L. Buzzi, P. Concari, C. Cremaschini, G. Galli, M. Tombelli, N. Falla, M. Suzuki, E. Bryssinck, P. S. Lau. Measurers G. Gašparović, Y. Chen, G. Y. Chen, D. Brandt, H. Sato, G. van Buitenen, G. Crinklaw, D. Storey, G. Y. Gasparovic, N. Paul, S. Foglia, L. Buzzi, P. Concari, C. Cremaschini, G. Galli, M. Tombelli, N. Falla, M. Suzuki, E. Bryssinck, P. S. Lau. 0.15-m $f/7$ refractor + CCD, 0.15-m $f/7.3$ refractor + CCD, 0.40-m $f/3.5$ astrograph + CCD, 0.43-m $f/6.8$ reflector + CCD, 0.51-m $f/6.8$ reflector + CCD + $f/4.5$ focal reducer, 0.50-m $f/6.8$ reflector + CCD + focal reducer, 0.70-m $f/6.6$ reflector + CCD.

Q63 Siding Spring-LCO A. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.

Q64 Siding Spring-LCO B. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.

Q65 Warrumbungle Observatory. Observers R. Dymock, A. Watkins. 0.51-m $f/6.8$ reflector + CCD.
Q68 Blue Mountains Observatory, Leura. Observers P. Camilleri, H. Williams. Measurer P. Camilleri. 0.30-m $f/5.4$ reflector + CCD.
T03 Haleakala-LCO Clamshell #3. Observers P.-J. Dekelver, W. Cuppens, P. Miller, E. Gomez, S. Foglia, L. Buzzi. Measurers P.-J. Dekelver, S. Foglia, L. Buzzi. 0.4-m $f/8$ Schmidt-Cassegrain + CCD, 0.4-m $f/8$ reflector + CCD.
T04 Haleakala-LCO OGG B #2. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 0.4-m $f/8$ Schmidt-Cassegrain + CCD.
T05 ATLAS-HKO, Haleakala. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry. Measurers L. Denneau, A. Heinze, J. Tonry. 0.5-m $f/2.0$ Schmidt + CCD.
T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry. 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.
V03 Big Water. Observer D. Rankin. 0.30-m reflector + CCD.
V83 Rolling Hills Observatory, Warrensburg. Observer R. Owens. 0.36-m $f/1.9$ Schmidt-Cassegrain + CCD.
W25 RMS Observatory, Cincinnati. Observer B. Rowe. 0.35-m Schmidt-Cassegrain + CCD.
W33 Transit Dreams Observatory, Campobello. Observer D. Wilde. 0.13-m refractor + CCD.
W71 Rand II Observatory, Lake Placid. Observer G. Viscome. 0.37-m $f/6$ reflector + CCD.
W85 Cerro Tololo-LCO A. Observers P.-J. Dekelver, W. Cuppens, T. Lister, S. Greenstreet, E. Gomez. Measurers P.-J. Dekelver, T. Lister. 1-m $f/8$ Ritchey-Chrétien + CCD, 1.0-m $f/8$ Ritchey-Chrétien + CCD.
W87 Cerro Tololo-LCO C. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 1-m $f/8$ Ritchey-Chrétien + CCD.
W88 Slooh.com Chile Observatory, La Dehesa. Observers B. Lütkenhöner, J. L. Tuten, W. F. Cashwell, M. Kumrucu-Lohmiller. Measurers B. Lütkenhöner, W. F. Cashwell, M. Kumrucu-Lohmiller. 0.35-m $f/11$ Schmidt-Cassegrain + CCD.
W96 CAO, San Pedro de Atacama (since 2013). Observers A. Maury, J.-B. de Vanssay, T. Noel, J.-F. Soulier, J.-G. Bosch. Measurers T. Noel, J.-F. Soulier, J.-G. Bosch. 0.4-m $f/5.4$ Ritchey-Chrétien + CCD.
W97 Atacama Desert Observatory, San Pedro de Atacama. Observers B. Sandness, A. Maury, T. Noel. Measurer T. Noel. 0.38-m $f/4.6$ Newtonian reflector + CCD.
W98 Polonia Observatory, San Pedro de Atacama. Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski. Measurers M. Kusiak, R. Reszelewski. 0.25-m $f/3.6$ astrograph + CCD, 0.25-m $f/3.6$ reflector + CCD.
X39 Observatorio Antares, Pilar. Observer N. Suarez. 0.20-m $f/5$ reflector + CCD.
Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros. Measurer C. Jacques. 0.28-m $f/2.2$ astrograph + CCD, 0.45-m $f/2.9$ reflector + CCD.
Z17 Tenerife-LCO Aqawan A #2. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 0.4-m $f/8$ Schmidt-Cassegrain + CCD.
Z21 Tenerife-LCO Aqawan A #1. Observers P.-J. Dekelver, W. Cuppens. Measurer P.-J. Dekelver. 0.4-m $f/8$ Schmidt-Cassegrain + CCD.
Z38 Picoto Observatory, Leiria. Observer C. Oliveira. 0.10-m refractor + CCD.
Z43 Landehen. Observer *c.* Ratinaud. 0.25-m $f/4.7$ reflector + CCD.
Z50 Mazariegos. Observer F. Limon. 0.20-m $f/0.78$ Schmidt-Cassegrain + CCD.
Z55 Uraniborg Observatory, Écija. Observer R. Farf=C3=A1n. 0.28-m $f/6.3$ Schmidt-Cassegrain + CCD.
Z78 Arroyo Observatory, Arroyo Hurtado. Observer 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. 0.25-m $f/8$ Ritchey-Chrétien + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.		N	Obs.
C/1995 O1 (Hale-Bopp)								
C/1995 O1	2006 08	01.359663	04 58 42.359	−82 53 13.88	22.7	T	15	309
C/1995 O1	2006 08	01.403054	04 58 44.274	−82 53 19.54	22.5	T	15	309
C/1995 O1	2006 11	24.296569	03 22 38.874	−86 20 03.92	22.5	T	15	309
C/1995 O1	2006 11	24.316947	03 22 35.677	−86 20 03.28			15	309
C/1995 O1	2006 11	25.199406	03 20 21.877	−86 19 36.33	22.5	T	15	309
C/1995 O1	2006 11	25.220210	03 20 18.622	−86 19 35.57			15	309
C/1995 O1	2006 12	11.155699	02 44 18.679	−86 03 10.78	23.2	T	15	309
C/1995 O1	2007 02	18.086437	02 09 52.415	−83 34 26.46	22.9	T	15	309
C/1995 O1	2007 02	18.107568	02 09 53.072	−83 34 23.72			15	309
C/1995 O1	2007 02	19.051107	02 10 20.498	−83 32 25.69	22.5	T	15	309
C/1995 O1	2007 02	19.090484	02 10 21.689	−83 32 20.70	22.7	T	15	309
C/1995 O1	2007 04	13.998324	02 52 51.081	−82 13 42.83	23.0	T	15	309
C/1995 O1	2007 08	13.350374	04 47 07.318	−84 06 10.81	23.0	T	15	309
C/1995 O1	2007 08	13.371252	04 47 08.139	−84 06 13.66			15	309
C/1995 O1	2007 09	11.112617	04 52 46.064	−85 11 48.81	22.9	T	15	309
C/1995 O1	2007 09	11.133907	04 52 45.817	−85 11 51.78			15	309
C/1995 O1	2007 10	05.213456	04 36 09.845	−86 03 22.21	20.5	T	15	309
C/1995 O1	2007 10	05.240497	04 36 07.873	−86 03 25.34			15	309
C/1995 O1	2007 11	11.160539	03 17 49.109	−86 42 55.04	21.5	T	15	309
C/1995 O1	2007 11	12.119021	03 15 14.801	−86 42 53.55	22.0	T	15	309
C/1995 O1	2007 11	12.195850	03 15 02.306	−86 42 53.38	21.4	T	15	309
C/1995 O1	2007 11	14.189821	03 09 41.729	−86 42 38.24	22.1	T	15	309
C/1995 O1	2007 11	14.220183	03 09 36.819	−86 42 37.84	21.7	T	15	309
C/1995 O1	2011 10	06.064259	02 06 00.014	−87 15 11.93	23.3	T	15	309
C/1995 O1	2011 10	23.145975	01 23 11.190	−87 17 15.22	23.8	T	15	309
C/1995 O1	2011 10	23.173123	01 23 06.965	−87 17 14.75	24.2	T	15	309
C/1995 O1	2011 10	23.200409	01 23 02.868	−87 17 14.39	23.7	T	15	309
C/1995 O1	2011 10	26.112051	01 15 50.907	−87 16 05.61	23.9	T	15	309
C/1995 O1	2011 10	26.159794	01 15 43.642	−87 16 04.29	24.1	T	15	309
C/1995 O1	2011 10	26.199825	01 15 37.877	−87 16 03.08	24.3	T	15	309
C/1995 O1	2013 08	13.308335	02 14 18.284	−86 24 44.38	24.1	T	15	309
C/1995 O1	2013 08	13.323140	02 14 17.806	−86 24 45.93	24.3	T	15	309
C/2010 U3 (Boattini)								
C/2010 U3	2017 07	13.19939	05 38 10.46	+62 54 30.7	18.0	N		J22
C/2010 U3	2017 07	13.20169	05 38 10.72	+62 54 31.2	18.0	N		J22
C/2010 U3	2017 07	13.20626	05 38 11.12	+62 54 32.0	18.0	N		J22
C/2010 U3	2017 07	27.04797	05 53 11.74	+63 45 28.4	19.0	N	K	I81
C/2010 U3	2017 07	27.05010	05 53 11.87	+63 45 29.2	18.7	N	K	I81

C/2010 U3	2017 07 27.05223	05 53 11.84	+63 45 30.7	16.9	N	K	I81
C/2010 U3	2017 07 28.97942	05 55 15.92	+63 53 04.2	17.8	N	K	K83
C/2010 U3	2017 07 28.98186	05 55 16.12	+63 53 05.0	17.7	N	K	K83
C/2010 U3	2017 07 28.99030	05 55 16.68	+63 53 07.1	17.9	N	K	K83
C/2010 U3	2017 08 04.20117	06 01 53.24	+64 18 16.6	17.9	N		J22
C/2010 U3	2017 08 04.20346	06 01 53.37	+64 18 17.9	17.9	N		J22
C/2010 U3	2017 08 04.21035	06 01 53.68	+64 18 19.8	17.9	N		J22
C/2010 U3	2017 08 07.06205	06 04 53.57	+64 30 13.8	17.0	N	K	C23
C/2010 U3	2017 08 07.06533	06 04 54.08	+64 30 17.0	17.6	N	K	C23
C/2010 U3	2017 08 07.06894	06 04 54.20	+64 30 18.7	17.9	N	K	C23
C/2010 U3	2017 08 14.02878	06 12 06.28	+65 00 31.4	18.3	N	K	K02
C/2010 U3	2017 08 14.03497	06 12 06.93	+65 00 34.4	18.1	N	K	K02
C/2010 U3	2017 08 23.86257	06 21 56.25	+65 45 51.5	17.8	N	K	107
C/2010 U3	2017 08 23.88411	06 21 57.69	+65 45 58.0	18.1	N	K	107
C/2010 U3	2017 08 24.08848	06 22 09.65	+65 46 56.4	18.5	T	K	461
C/2010 U3	2017 08 24.09334	06 22 09.94	+65 46 57.7	18.5	T	K	461
C/2010 U3	2017 08 24.09657	06 22 10.08	+65 46 58.9	18.5	T	K	461
C/2010 U3	2017 08 29.21042	06 27 03.90	+66 11 49.6	16.9	N		J22
C/2010 U3	2017 08 29.21498	06 27 03.97	+66 11 50.2	16.9	N		J22
C/2010 U3	2017 08 31.08877	06 28 49.48	+66 21 08.4	17.8	N	K	A77
C/2010 U3	2017 08 31.09786	06 28 50.01	+66 21 11.3	18.1	N	K	A77
C/2010 U3	2017 08 31.10695	06 28 50.59	+66 21 14.7	17.7	N	K	A77
C/2010 U3	2017 09 01.81204	06 30 24.97	+66 29 48.1			K	367
C/2010 U3	2017 09 01.81406	06 30 25.01	+66 29 48.7			K	367
C/2010 U3	2017 09 01.81609	06 30 25.11	+66 29 49.2	16.9	T	K	367
C/2010 U3	2017 09 03.01209	06 31 30.62	+66 35 52.5	17.7	N	K	K02
C/2010 U3	2017 09 03.01984	06 31 31.07	+66 35 52.9	18.4	N	K	K02
C/2010 U3	2017 09 04.88552	06 33 12.71	+66 45 37.1	17.1	N		C86
C/2010 U3	2017 09 04.89434	06 33 12.82	+66 45 33.6	16.5	N		C86
C/2010 U3	2017 09 04.90316	06 33 12.69	+66 45 31.1	16.6	N		C86
C/2010 U3	2017 09 10.06592	06 37 43.66	+67 12 33.2	17.5	N	K	C23
C/2010 U3	2017 09 10.06881	06 37 43.68	+67 12 33.8	17.7	N	K	C23
C/2010 U3	2017 09 10.07170	06 37 43.68	+67 12 34.6	17.4	N	K	C23
C/2010 U3	2017 09 10.07458	06 37 44.11	+67 12 35.5	17.5	N	K	C23
C/2010 U3	2017 09 13.85892	06 40 53.60	+67 32 52.6	17.6	N		I72
C/2010 U3	2017 09 13.87653	06 40 54.60	+67 32 58.1	17.5	N		I72
C/2010 U3	2017 09 13.89331	06 40 55.60	+67 33 04.4	17.9	N		I72
C/2010 U3	2017 09 15.62466	06 42 19.50	+67 42 30.8			K	D81
C/2010 U3	2017 09 15.63229	06 42 19.83	+67 42 34.0			K	D81
C/2010 U3	2017 09 15.63991	06 42 20.25	+67 42 36.9			K	D81
C/2010 U3	2017 09 15.64754	06 42 20.72	+67 42 38.4	16.7	T	K	D81
C/2010 U3	2017 09 15.88304	06 42 31.20	+67 43 55.7	17.3	N		I72
C/2010 U3	2017 09 15.91448	06 42 33.32	+67 44 06.6	17.5	N		I72
C/2010 U3	2017 09 15.93698	06 42 34.37	+67 44 12.6	17.5	N		I72
C/2010 U3	2017 09 17.09898	06 43 29.70	+67 50 38.4	17.8	N	K	C23
C/2010 U3	2017 09 17.10331	06 43 29.73	+67 50 38.7	17.5	N	K	C23
C/2010 U3	2017 09 17.10619	06 43 30.08	+67 50 40.4	17.6	N	K	C23
C/2010 U3	2017 09 26.59975	06 50 27.55	+68 44 21.4	17.6	T		T08
C/2010 U3	2017 09 26.60755	06 50 27.82	+68 44 23.7	18.2	T		T08
C/2010 U3	2017 09 26.61544	06 50 28.04	+68 44 26.8	17.5	T		T08
C/2010 U3	2017 09 26.62338	06 50 28.33	+68 44 30.0	18.0	T		T08
C/2010 U3	2017 09 26.89762	06 50 39.62	+68 46 03.4	18.0	N		I72
C/2010 U3	2017 09 26.91935	06 50 40.48	+68 46 10.9	17.8	N		I72
C/2010 U3	2017 09 26.94094	06 50 41.38	+68 46 18.5	17.9	N		I72

C/2011 J2 (LINEAR)

C/2011 J2	2017 09 15.37030	22 42 39.746	−25 28 25.85	22.1	T		F51
C/2011 J2	2017 09 15.38833	22 42 39.294	−25 28 28.98	22.2	T		F51
C/2011 J2	2017 09 15.39734	22 42 39.063	−25 28 30.79	22.2	T		F51

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

C/2011 KP$_{36}$	2017 07 11.74046	03 15 45.11	+04 50 28.7	16.6	T		349
C/2011 KP$_{36}$	2017 07 11.74594	03 15 45.40	+04 50 27.8				349
C/2011 KP$_{36}$	2017 07 12.20646	03 16 03.17	+04 50 19.2	17.5	N	9	G40
C/2011 KP$_{36}$	2017 07 12.21225	03 16 03.40	+04 50 18.9	17.5	N	9	G40
C/2011 KP$_{36}$	2017 07 12.21794	03 16 03.59	+04 50 18.9	17.6	N	9	G40
C/2011 KP$_{36}$	2017 07 18.73905	03 20 05.70	+04 46 48.0	16.7	T		349
C/2011 KP$_{36}$	2017 07 18.74748	03 20 05.97	+04 46 47.4				349
C/2011 KP$_{36}$	2017 07 19.11929	03 20 19.23	+04 46 30.7	17.1	N	K	160
C/2011 KP$_{36}$	2017 07 19.12172	03 20 19.30	+04 46 30.5	16.6	N	K	160
C/2011 KP$_{36}$	2017 07 19.12416	03 20 19.32	+04 46 30.2	16.6	N	K	160
C/2011 KP$_{36}$	2017 07 30.16539	03 26 23.27	+04 34 45.1	16.9	N		J22
C/2011 KP$_{36}$	2017 07 30.17024	03 26 23.45	+04 34 44.5	16.9	N		J22
C/2011 KP$_{36}$	2017 07 30.17190	03 26 23.50	+04 34 44.0	16.9	N		J22
C/2011 KP$_{36}$	2017 08 01.77850	03 27 40.54	+04 30 56.5			K	367
C/2011 KP$_{36}$	2017 08 01.78093	03 27 40.62	+04 30 56.5	15.8	T	K	367
C/2011 KP$_{36}$	2017 08 04.22630	03 28 49.71	+04 27 02.7	17.1	N	9	G40
C/2011 KP$_{36}$	2017 08 04.22910	03 28 49.76	+04 27 02.5	16.9	N	9	G40
C/2011 KP$_{36}$	2017 08 07.12655	03 30 07.48	+04 22 00.4	16.3	N	K	C23
C/2011 KP$_{36}$	2017 08 07.12954	03 30 07.61	+04 21 58.7	16.4	N	K	C23
C/2011 KP$_{36}$	2017 08 12.03817	03 32 08.75	+04 12 24.0	17.0	N		585
C/2011 KP$_{36}$	2017 08 12.03889	03 32 08.75	+04 12 23.8	16.9	N		585
C/2011 KP$_{36}$	2017 08 12.03965	03 32 08.79	+04 12 24.1	16.8	N		585
C/2011 KP$_{36}$	2017 08 12.04039	03 32 08.79	+04 12 23.4	17.2	N		585
C/2011 KP$_{36}$	2017 08 12.04117	03 32 08.82	+04 12 23.8	16.9	N		585
C/2011 KP$_{36}$	2017 08 12.04189	03 32 08.82	+04 12 23.4	17.0	N		585
C/2011 KP$_{36}$	2017 08 12.04262	03 32 08.89	+04 12 23.5	17.1	N		585
C/2011 KP$_{36}$	2017 08 12.04337	03 32 08.89	+04 12 23.2	16.9	N		585
C/2011 KP$_{36}$	2017 08 12.04414	03 32 08.89	+04 12 23.7	17.0	N		585
C/2011 KP$_{36}$	2017 08 12.04529	03 32 08.91	+04 12 23.0	17.0	N		585
C/2011 KP$_{36}$	2017 08 12.04605	03 32 08.95	+04 12 23.0	17.1	N		585
C/2011 KP$_{36}$	2017 08 12.04680	03 32 09.00	+04 12 22.4	17.0	N		585
C/2011 KP$_{36}$	2017 08 12.89850	03 32 28.43	+04 10 33.6	18	T		C51
Geocentric position (km)	+ 1919.2327	+ 6509.0088	+ 1002.8779				
C/2011 KP$_{36}$	2017 08 13.02941	03 32 31.41	+04 10 18.8				C51
Geocentric position (km)	+ 1900.2476	+ 6510.7633	+ 1027.2349				
C/2011 KP$_{36}$	2017 08 13.09486	03 32 32.96	+04 10 10.9				C51
Geocentric position (km)	+ 1890.7483	+ 6511.5861	+ 1039.3897				
C/2011 KP$_{36}$	2017 08 13.16031	03 32 34.45	+04 10 02.3				C51
Geocentric position (km)	+ 1881.2461	+ 6512.3823	+ 1051.5400				
C/2011 KP$_{36}$	2017 08 13.16044	03 32 34.51	+04 10 01.5				C51
Geocentric position (km)	+ 1895.1113	+ 6521.2594	+ 969.2904				
C/2011 KP$_{36}$	2017 08 13.18665	03 32 35.18	+04 09 58.6	17.4	N	9	G40
C/2011 KP$_{36}$	2017 08 13.22589	03 32 35.98	+04 09 54.1				C51
Geocentric position (km)	+ 1885.6281	+ 6522.1707	+ 981.4839				
C/2011 KP$_{36}$	2017 08 13.22738	03 32 36.06	+04 09 53.3	17.2	N	9	G40

C/2011 KP_{36}	2017 08 13.23200	03 32 36.15	+04 09 52.9	17.2	N	9	G40
C/2011 KP_{36}	2017 08 13.61860	03 32 44.67	+04 09 03.3				C51
Geocentric position (km)		+ 1828.6473	+ 6526.9568	+ 1054.4237			
C/2011 KP_{36}	2017 08 13.61873	03 32 44.65	+04 09 03.0				C51
Geocentric position (km)		+ 1842.4504	+ 6535.9790	+ 972.1803			
C/2011 KP_{36}	2017 08 13.74963	03 32 47.64	+04 08 47.7				C51
Geocentric position (km)		+ 1823.4822	+ 6537.6218	+ 996.4593			
C/2011 KP_{36}	2017 08 15.91004	03 33 34.56	+04 03 57.4	18	T		C51
Geocentric position (km)		+ 1564.2370	+ 6593.3153	+ 1066.8612			
C/2011 KP_{36}	2017 08 15.91017	03 33 34.44	+04 03 56.2				C51
Geocentric position (km)		+ 1577.7076	+ 6603.0367	+ 984.6104			
C/2011 KP_{36}	2017 08 16.04107	03 33 37.30	+04 03 39.8				C51
Geocentric position (km)		+ 1558.7105	+ 6603.8933	+ 1008.7109			
C/2011 KP_{36}	2017 08 16.08186	03 33 38.30	+04 03 32.8	17.3	N	K	160
C/2011 KP_{36}	2017 08 16.08422	03 33 38.33	+04 03 32.3	17.7	N	K	160
C/2011 KP_{36}	2017 08 16.08658	03 33 38.39	+04 03 32.0	17.3	N	K	160
C/2011 KP_{36}	2017 08 16.17198	03 33 39.97	+04 03 23.2				C51
Geocentric position (km)		+ 1539.7002	+ 6604.6151	+ 1032.7876			
C/2011 KP_{36}	2017 08 16.30288	03 33 42.77	+04 03 04.6				C51
Geocentric position (km)		+ 1520.6632	+ 6605.1911	+ 1056.9268			
C/2011 KP_{36}	2017 08 16.30641	03 33 42.98	+04 03 03.6	17.1	N		W96
C/2011 KP_{36}	2017 08 16.35146	03 33 43.90	+04 02 57.0	17.0	N		W96
C/2011 KP_{36}	2017 08 16.43391	03 33 45.41	+04 02 46.1				C51
Geocentric position (km)		+ 1515.0386	+ 6615.6479	+ 998.7866			
C/2011 KP_{36}	2017 08 16.63026	03 33 49.60	+04 02 18.1				C51
Geocentric position (km)		+ 1486.4239	+ 6616.3581	+ 1035.2170			
C/2011 KP_{36}	2017 08 16.89220	03 33 55.00	+04 01 42.3				C51
Geocentric position (km)		+ 1461.7115	+ 6627.2276	+ 1001.0165			
C/2011 KP_{36}	2017 08 17.02310	03 33 57.61	+04 01 22.6				C51
Geocentric position (km)		+ 1442.7053	+ 6627.7030	+ 1025.0457			
C/2011 KP_{36}	2017 08 17.05982	03 33 58.51	+04 01 17.2	17.1	N	K	160
C/2011 KP_{36}	2017 08 17.06193	03 33 58.55	+04 01 17.0	17.2	N	K	160
C/2011 KP_{36}	2017 08 17.06403	03 33 58.61	+04 01 16.4	17.3	N	K	160
C/2011 KP_{36}	2017 08 18.09293	03 34 19.22	+03 58 50.1	17.2	N	K	160
C/2011 KP_{36}	2017 08 18.09546	03 34 19.27	+03 58 49.7	17.2	N	K	160
C/2011 KP_{36}	2017 08 18.09785	03 34 19.31	+03 58 49.5	17.2	N	K	160
C/2011 KP_{36}	2017 08 19.06439	03 34 38.06	+03 56 29.1	16.7	N	K	C23
C/2011 KP_{36}	2017 08 19.06751	03 34 38.16	+03 56 28.1	16.5	N	K	C23
C/2011 KP_{36}	2017 08 19.07040	03 34 38.22	+03 56 27.6	16.5	N	K	C23
C/2011 KP_{36}	2017 08 19.07329	03 34 38.27	+03 56 27.4	16.8	N	K	C23
C/2011 KP_{36}	2017 08 19.10374	03 34 38.83	+03 56 23.2	17.7	N	K	160
C/2011 KP_{36}	2017 08 19.10581	03 34 38.87	+03 56 22.7	17.8	N	K	160
C/2011 KP_{36}	2017 08 19.10787	03 34 38.92	+03 56 22.3	17.3	N	K	160
C/2011 KP_{36}	2017 08 19.41365	03 34 44.75	+03 55 37.5	17.2	N		H47
C/2011 KP_{36}	2017 08 19.42194	03 34 44.89	+03 55 36.0	17.0	N		H47
C/2011 KP_{36}	2017 08 19.43025	03 34 45.09	+03 55 35.1	17.2	N		H47
C/2011 KP_{36}	2017 08 19.43867	03 34 45.24	+03 55 34.0	17.1	N		H47
C/2011 KP_{36}	2017 08 20.12087	03 34 58.07	+03 53 52.4	17.0	N		J22
C/2011 KP_{36}	2017 08 20.12404	03 34 58.08	+03 53 52.6	17.0	N		J22
C/2011 KP_{36}	2017 08 21.13407	03 35 16.47	+03 51 18.7	16.9	N	K	160
C/2011 KP_{36}	2017 08 21.13642	03 35 16.48	+03 51 19.1	17.6	N	K	160
C/2011 KP_{36}	2017 08 21.13876	03 35 16.54	+03 51 17.9	16.5	N	K	160
C/2011 KP_{36}	2017 08 23.09616	03 35 50.42	+03 46 13.8	17.4	N	K	160
C/2011 KP_{36}	2017 08 23.09851	03 35 50.47	+03 46 13.4	17.6	N	K	160
C/2011 KP_{36}	2017 08 23.10087	03 35 50.47	+03 46 12.7	17.6	N	K	160
C/2011 KP_{36}	2017 08 24.06157	03 36 06.20	+03 43 39.6	17.4	T	K	461
C/2011 KP_{36}	2017 08 24.06966	03 36 06.33	+03 43 38.3	17.3	T	K	461
C/2011 KP_{36}	2017 08 24.12909	03 36 07.27	+03 43 28.9	17.7	N	K	160
C/2011 KP_{36}	2017 08 24.13145	03 36 07.31	+03 43 28.4	17.8	N	K	160
C/2011 KP_{36}	2017 08 24.13381	03 36 07.36	+03 43 27.4	17.6	N	K	160
C/2011 KP_{36}	2017 08 26.72410	03 36 46.83	+03 36 20.8	15.8	T		D95
C/2011 KP_{36}	2017 08 26.73166	03 36 46.94	+03 36 19.6				D95
C/2011 KP_{36}	2017 08 26.73598	03 36 47.01	+03 36 18.8				D95
C/2011 KP_{36}	2017 08 28.09687	03 37 05.97	+03 32 26.8	16.8	N		J22
C/2011 KP_{36}	2017 08 28.10319	03 37 06.13	+03 32 26.3	16.8	N		J22
C/2011 KP_{36}	2017 08 29.08153	03 37 19.00	+03 29 36.8	16.5	N		C23
C/2011 KP_{36}	2017 08 29.08442	03 37 19.08	+03 29 35.8	16.5	N		C23
C/2011 KP_{36}	2017 08 29.09019	03 37 19.23	+03 29 34.7	16.9	N		C23
C/2011 KP_{36}	2017 08 31.11783	03 37 43.98	+03 23 35.8	17.2	N	K	A77
C/2011 KP_{36}	2017 08 31.12632	03 37 44.11	+03 23 34.4	17.0	N	K	A77
C/2011 KP_{36}	2017 09 01.75885	03 38 02.20	+03 18 37.7			K	367
C/2011 KP_{36}	2017 09 01.76149	03 38 02.21	+03 18 37.2			K	367
C/2011 KP_{36}	2017 09 01.76392	03 38 02.24	+03 18 36.8	15.7	T	K	367
C/2011 KP_{36}	2017 09 03.13921	03 38 16.18	+03 14 21.4	16.6	N		I81
C/2011 KP_{36}	2017 09 03.14347	03 38 16.22	+03 14 21.1	17.0	N		I81
C/2011 KP_{36}	2017 09 03.14631	03 38 16.21	+03 14 19.9	16.8	N		I81
C/2011 KP_{36}	2017 09 10.09493	03 39 07.92	+02 51 49.5	16.8	N	K	C23
C/2011 KP_{36}	2017 09 10.09853	03 39 07.90	+02 51 48.4	16.7	N	K	C23
C/2011 KP_{36}	2017 09 10.10214	03 39 07.94	+02 51 48.4	17.0	N	K	C23
C/2011 KP_{36}	2017 09 13.73669	03 39 22.42	+02 39 24.2			K	D81
C/2011 KP_{36}	2017 09 13.74431	03 39 22.45	+02 39 22.4			K	D81
C/2011 KP_{36}	2017 09 13.75194	03 39 22.48	+02 39 21.1			K	D81
C/2011 KP_{36}	2017 09 13.75958	03 39 22.51	+02 39 19.2	17.6	T	K	D81
C/2011 KP_{36}	2017 09 14.52142	03 39 24.49	+02 36 41.1	16.6	T		T05
C/2011 KP_{36}	2017 09 14.52347	03 39 24.49	+02 36 40.4	17.5	T		T05
C/2011 KP_{36}	2017 09 14.52830	03 39 24.50	+02 36 39.7	16.7	T		T05
C/2011 KP_{36}	2017 09 14.52943	03 39 24.51	+02 36 39.4	16.6	T		T05
C/2011 KP_{36}	2017 09 14.53043	03 39 24.50	+02 36 39.0	16.8	T		T05
C/2011 KP_{36}	2017 09 14.53148	03 39 24.51	+02 36 39.0	16.8	T		T05
C/2011 KP_{36}	2017 09 14.53616	03 39 24.53	+02 36 38.2	16.6	T		T05
C/2011 KP_{36}	2017 09 14.53776	03 39 24.50	+02 36 37.3	16.7	T		T05
C/2011 KP_{36}	2017 09 14.54262	03 39 24.53	+02 36 36.8	17.5	T		T05
C/2011 KP_{36}	2017 09 14.54353	03 39 24.54	+02 36 36.4	16.6	T		T05
C/2011 KP_{36}	2017 09 14.54451	03 39 24.53	+02 36 35.8	16.9	T		T05
C/2011 KP_{36}	2017 09 14.54549	03 39 24.54	+02 36 35.7	16.9	T		T05
C/2011 KP_{36}	2017 09 14.55036	03 39 24.54	+02 36 35.0	16.5	T		T05
C/2011 KP_{36}	2017 09 14.55224	03 39 24.55	+02 36 34.4	16.8	T		T05
C/2011 KP_{36}	2017 09 16.51433	03 39 27.77	+02 29 40.8	16.8	T		T08
C/2011 KP_{36}	2017 09 16.52115	03 39 27.76	+02 29 39.5	16.6	T		T08
C/2011 KP_{36}	2017 09 16.52841	03 39 27.80	+02 29 37.8	16.6	T		T08
C/2011 KP_{36}	2017 09 16.53511	03 39 27.78	+02 29 36.1	16.7	T		T08
C/2011 KP_{36}	2017 09 17.00559	03 39 28.17	+02 27 55.8	16.7	N		L51
C/2011 KP_{36}	2017 09 17.00995	03 39 28.15	+02 27 54.7	15.3	T		L51
C/2011 KP_{36}	2017 09 17.01213	03 39 28.16	+02 27 54.3				L51
C/2011 KP_{36}	2017 09 17.01431	03 39 28.16	+02 27 54.2				L51
C/2011 KP_{36}	2017 09 17.06808	03 39 28.19	+02 27 42.8	16.7	N		C23

C/2011 KP_{36}	2017 09 17.07241	03 39 28.23	+02 27 41.7	16.9	N	C23
C/2011 KP_{36}	2017 09 17.07673	03 39 28.21	+02 27 41.0	17.1	N	C23
C/2011 KP_{36}	2017 09 19.16695	03 39 28.13	+02 20 12.9	17.5	T	J43
C/2011 KP_{36}	2017 09 19.17561	03 39 28.12	+02 20 11.2	17.6	T	J43
C/2011 KP_{36}	2017 09 19.18429	03 39 28.10	+02 20 09.3	17.5	T	J43
C/2011 KP_{36}	2017 09 19.19302	03 39 28.09	+02 20 07.5	17.6	T	J43
C/2011 KP_{36}	2017 09 20.50539	03 39 26.64	+02 15 22.8	16.9	T	T08
C/2011 KP_{36}	2017 09 20.51227	03 39 26.62	+02 15 21.5	17.0	T	T08
C/2011 KP_{36}	2017 09 20.51331	03 39 26.62	+02 15 21.0	17.0	T	T08
C/2011 KP_{36}	2017 09 20.51964	03 39 26.62	+02 15 19.7	16.8	T	T08
C/2011 KP_{36}	2017 09 20.52011	03 39 26.60	+02 15 19.8	16.8	T	T08
C/2011 KP_{36}	2017 09 20.52636	03 39 26.60	+02 15 18.0	16.7	T	T08
C/2011 KP_{36}	2017 09 20.52736	03 39 26.59	+02 15 18.0	17.1	T	T08
C/2011 KP_{36}	2017 09 20.53407	03 39 26.60	+02 15 16.7	17.1	T	T08
C/2011 KP_{36}	2017 09 22.51343	03 39 22.23	+02 08 04.7	16.9	T	T05
C/2011 KP_{36}	2017 09 22.52043	03 39 22.20	+02 08 03.2	17.0	T	T05
C/2011 KP_{36}	2017 09 22.52782	03 39 22.18	+02 08 01.7	16.9	T	T05
C/2011 KP_{36}	2017 09 22.53455	03 39 22.16	+02 08 00.2	17.5	T	T05
C/2011 KP_{36}	2017 09 23.21487	03 39 19.97	+02 05 30.3	16.8	N	J22
C/2011 KP_{36}	2017 09 23.22189	03 39 19.96	+02 05 28.6	16.8	N	J22
C/2011 KP_{36}	2017 09 24.96936	03 39 13.48	+01 59 02.8	17.1	N	B96
C/2011 KP_{36}	2017 09 24.97100	03 39 13.47	+01 59 02.1	17.4	N	B96
C/2011 KP_{36}	2017 09 24.97263	03 39 13.45	+01 59 01.6	16.9	N	B96
C/2011 KP_{36}	2017 09 24.97426	03 39 13.44	+01 59 01.5	17.0	N	B96
C/2011 KP_{36}	2017 09 24.97590	03 39 13.42	+01 59 01.3	16.7	N	B96
C/2011 KP_{36}	2017 09 24.97753	03 39 13.33	+01 59 01.2	16.7	N	B96
C/2011 KP_{36}	2017 09 26.49182	03 39 06.05	+01 53 25.7	16.7	T	T05
C/2011 KP_{36}	2017 09 26.49872	03 39 06.01	+01 53 24.1	16.7	T	T05
C/2011 KP_{36}	2017 09 26.50496	03 39 05.97	+01 53 22.6	17.4	T	T05
C/2011 KP_{36}	2017 09 26.51181	03 39 05.93	+01 53 21.0	16.7	T	T05
C/2011 KP_{36}	2017 09 27.21721	03 39 01.97	+01 50 44.2	16.9	N	J22
C/2011 KP_{36}	2017 09 27.22191	03 39 01.95	+01 50 43.0	16.9	N	J22
C/2011 KP_{36}	2017 09 27.22662	03 39 01.92	+01 50 42.0	16.9	N	J22
C/2011 KP_{36}	2017 09 28.49896	03 38 54.20	+01 45 58.0	16.7	T	T08
C/2011 KP_{36}	2017 09 28.50618	03 38 54.16	+01 45 56.2	16.7	T	T08
C/2011 KP_{36}	2017 09 28.51338	03 38 54.07	+01 45 55.3	16.7	T	T08
C/2011 KP_{36}	2017 09 28.52052	03 38 54.04	+01 45 53.1	16.7	T	T08
C/2011 KP_{36}	2017 09 28.52249	03 38 54.03	+01 45 52.6	16.8	T	T08
C/2011 KP_{36}	2017 09 28.66603	03 38 53.11	+01 45 20.7	16.5	T	Q11
C/2011 KP_{36}	2017 09 28.67172	03 38 53.06	+01 45 19.1			Q11
C/2011 KP_{36}	2017 09 28.67882	03 38 53.01	+01 45 17.7			Q11

C/2012 F3 (PANSTARRS)

C/2012 F3	2017 07 04.79578	00 48 24.13	+01 01 27.5			1 Q62
C/2012 F3	2017 07 04.79865	00 48 24.14	+01 01 27.3			1 Q62
C/2012 F3	2017 07 04.80151	00 48 24.16	+01 01 27.0	19.0	T	1 Q62

C/2012 LP_{26} (Palomar)

C/2012 LP_{26}	2017 07 25.55800	23 52 19.966	−09 04 33.49	20.4	T	F51
C/2012 LP_{26}	2017 07 25.56917	23 52 19.924	−09 04 35.80	20.5	T	F51
C/2012 LP_{26}	2017 07 25.58032	23 52 19.891	−09 04 37.20	20.4	T	F51
C/2012 LP_{26}	2017 07 25.59148	23 52 19.846	−09 04 39.60	20.6	T	F51
C/2012 LP_{26}	2017 07 29.54080	23 52 04.90	−09 15 54.5	18.9	T	T08
C/2012 LP_{26}	2017 07 29.54723	23 52 04.91	−09 15 55.4	18.8	T	T08
C/2012 LP_{26}	2017 07 29.54924	23 52 04.79	−09 15 55.7	18.9	T	T08
C/2012 LP_{26}	2017 07 29.55569	23 52 04.69	−09 15 57.0	19.0	T	T08
C/2012 LP_{26}	2017 07 29.56411	23 52 04.74	−09 15 58.0	19.0	T	T08
C/2012 LP_{26}	2017 07 29.56606	23 52 04.75	−09 15 58.2	18.9	T	T08
C/2012 LP_{26}	2017 07 30.49914	23 52 00.401	−09 18 42.55	20.3	T	F51
C/2012 LP_{26}	2017 07 30.51116	23 52 00.328	−09 18 45.14	20.5	T	F51
C/2012 LP_{26}	2017 07 30.52310	23 52 00.278	−09 18 46.75	20.3	T	F51
C/2012 LP_{26}	2017 07 30.53500	23 52 00.203	−09 18 49.32	20.4	T	F51
C/2012 LP_{26}	2017 08 02.54652	23 51 43.37	−09 27 53.0	19.2	T	T08
C/2012 LP_{26}	2017 08 02.54864	23 51 43.36	−09 27 52.2	19.3	T	T08
C/2012 LP_{26}	2017 08 02.55648	23 51 43.17	−09 27 54.3	19.1	T	T08
C/2012 LP_{26}	2017 08 02.56865	23 51 43.29	−09 27 56.2	19.4	T	T08
C/2012 LP_{26}	2017 08 02.57702	23 51 43.16	−09 27 57.2	19.0	T	T08
C/2012 LP_{26}	2017 08 02.57939	23 51 43.02	−09 27 56.8	19.0	T	T08
C/2012 LP_{26}	2017 08 15.54197	23 49 53.25	−10 09 46.7	19.0	T	T08
C/2012 LP_{26}	2017 08 15.55081	23 49 53.03	−10 09 48.1	18.9	T	T08
C/2012 LP_{26}	2017 08 15.55976	23 49 53.03	−10 09 49.8	19.0	T	T08
C/2012 LP_{26}	2017 08 15.56854	23 49 52.92	−10 09 52.3	18.9	T	T08
C/2012 LP_{26}	2017 08 17.63451	23 49 30.29	−10 16 49.9			1 Q62
C/2012 LP_{26}	2017 08 17.63669	23 49 30.24	−10 16 50.0			1 Q62
C/2012 LP_{26}	2017 08 17.63887	23 49 30.22	−10 16 50.5	18.9	T	1 Q62
C/2012 LP_{26}	2017 08 18.48281	23 49 20.684	−10 19 44.09	20.0	T	F51
C/2012 LP_{26}	2017 08 18.49399	23 49 20.549	−10 19 46.57	20.2	T	F51
C/2012 LP_{26}	2017 08 18.50515	23 49 20.419	−10 19 48.66	20.0	T	F51
C/2012 LP_{26}	2017 08 18.51631	23 49 20.286	−10 19 51.08	20.3	T	F51
C/2012 LP_{26}	2017 08 23.52364	23 48 19.04	−10 37 03.9	18.6	T	T08
C/2012 LP_{26}	2017 08 23.53255	23 48 18.85	−10 37 05.1	18.9	T	T08
C/2012 LP_{26}	2017 08 23.54141	23 48 18.76	−10 37 08.6	19.1	T	T08
C/2012 LP_{26}	2017 08 23.55025	23 48 18.64	−10 37 08.7	18.6	T	T08
C/2012 LP_{26}	2017 08 23.99697	23 48 12.95	−10 38 41.2	19.4	T	K 461
C/2012 LP_{26}	2017 08 24.00992	23 48 12.77	−10 38 44.4	18.9	T	K 461
C/2012 LP_{26}	2017 09 15.40912	23 42 40.755	−11 54 42.46	19.9	T	F51
C/2012 LP_{26}	2017 09 15.42035	23 42 40.567	−11 54 44.73	20.1	T	F51
C/2012 LP_{26}	2017 09 15.43144	23 42 40.390	−11 54 46.75	20.0	T	F51
C/2012 LP_{26}	2017 09 15.44255	23 42 40.204	−11 54 48.98	20.1	T	F51
C/2012 LP_{26}	2017 09 15.52677	23 42 38.78	−11 55 05.3	19.1	T	T05
C/2012 LP_{26}	2017 09 15.53653	23 42 38.59	−11 55 06.6	18.9	T	T05
C/2012 LP_{26}	2017 09 15.54696	23 42 38.45	−11 55 09.3	18.8	T	T05
C/2012 LP_{26}	2017 09 15.55728	23 42 38.33	−11 55 11.0	18.8	T	T05
C/2012 LP_{26}	2017 09 20.40082	23 41 21.59	−12 10 22.8	18.7	T	T08
C/2012 LP_{26}	2017 09 20.40290	23 41 21.49	−12 10 25.0	19.1	T	T08
C/2012 LP_{26}	2017 09 20.40762	23 41 21.55	−12 10 23.8	18.7	T	T08
C/2012 LP_{26}	2017 09 20.41485	23 41 21.41	−12 10 26.2	18.6	T	T08
C/2012 LP_{26}	2017 09 20.41668	23 41 21.36	−12 10 25.2	18.9	T	T08
C/2012 LP_{26}	2017 09 20.42333	23 41 21.09	−12 10 29.2	18.8	T	T08
C/2012 LP_{26}	2017 09 22.39936	23 40 50.23	−12 16 27.0	19.2	T	T05
C/2012 LP_{26}	2017 09 22.40929	23 40 49.99	−12 16 28.3	19.2	T	T05
C/2012 LP_{26}	2017 09 22.41067	23 40 50.02	−12 16 29.0	19.6	T	T05
C/2012 LP_{26}	2017 09 22.42103	23 40 49.81	−12 16 31.4	19.3	T	T05
C/2012 LP_{26}	2017 09 23.39603	23 40 34.666	−12 19 24.25	20.0	T	F51
C/2012 LP_{26}	2017 09 23.40720	23 40 34.484	−12 19 26.34	20.3	T	F51
C/2012 LP_{26}	2017 09 23.41833	23 40 34.303	−12 19 28.21	19.9	T	F51
C/2012 LP_{26}	2017 09 23.42945	23 40 34.124	−12 19 30.30	20.2	T	F51

C/2012 LP_{26}	2017 09 24.98469	23 40 09.92	−12 24 04.2	18.8	N	K	A77
C/2012 LP_{26}	2017 09 25.00276	23 40 09.67	−12 24 08.0	19.2	N	K	A77
C/2012 LP_{26}	2017 09 25.02085	23 40 09.33	−12 24 10.5	19.0	N	K	A77
C/2012 LP_{26}	2017 09 26.37534	23 39 48.53	−12 28 02.9	19.2	T		T05
C/2012 LP_{26}	2017 09 26.37808	23 39 48.48	−12 28 03.9	19.1	T		T05
C/2012 LP_{26}	2017 09 26.38460	23 39 48.45	−12 28 04.9	19.5	T		T05
C/2012 LP_{26}	2017 09 26.39146	23 39 48.29	−12 28 06.0	19.0	T		T05
C/2012 LP_{26}	2017 09 26.39283	23 39 48.29	−12 28 07.1	19.0	T		T05
C/2012 LP_{26}	2017 09 26.39419	23 39 48.23	−12 28 08.0	19.0	T		T05
C/2012 LP_{26}	2017 09 26.39465	23 39 48.22	−12 28 07.1	19.1	T		T05

C/2013 C2 (Tenagra)

C/2013 C2	2017 06 22.58536	14 20 32.00	−23 32 27.5	19.9	N	K	Q68
C/2013 C2	2017 06 22.62983	14 20 31.76	−23 32 21.3	19.3	N	K	Q68
C/2013 C2	2017 06 23.58930	14 20 27.21	−23 30 19.6	20.0	N	K	Q68
C/2013 C2	2017 06 23.63411	14 20 26.99	−23 30 13.3	20.3	N	K	Q68
C/2013 C2	2017 06 30.43344	14 20 05.29	−23 16 30.4	19.3	N		Q68
C/2013 C2	2017 06 30.50258	14 20 05.12	−23 16 24.2	18.9	N		Q68
C/2013 C2	2017 07 11.48299	14 20 10.14	−22 57 07.1	19.6	N	K	Q68
C/2013 C2	2017 07 11.52433	14 20 10.19	−22 57 04.2	19.6	N	K	Q68
C/2013 C2	2017 07 16.28566	14 20 27.89	−22 49 57.2	18.8	T		T08
C/2013 C2	2017 07 16.29391	14 20 27.94	−22 50 00.4	19.1	T		T08
C/2013 C2	2017 07 16.30168	14 20 28.04	−22 49 57.1	18.8	T		T08
C/2013 C2	2017 07 16.30995	14 20 27.99	−22 49 55.5	18.9	T		T08
C/2013 C2	2017 07 17.44529	14 20 33.58	−22 48 20.4	19.3	N	K	Q68
C/2013 C2	2017 07 17.48697	14 20 33.76	−22 48 16.8	19.4	N	K	Q68
C/2013 C2	2017 07 18.42445	14 20 38.78	−22 47 01.2	19.2	N		Q68
C/2013 C2	2017 07 18.44280	14 20 38.82	−22 46 58.8	19.2	N		Q68
C/2013 C2	2017 07 19.51740	14 20 45.10	−22 45 33.8	19.4	N	K	Q68
C/2013 C2	2017 07 19.56279	14 20 45.46	−22 45 30.2	19.1	N	K	Q68

C/2013 P3 (Palomar)

C/2013 P3	2017 08 12.58349	01 31 26.485	−44 00 06.13	20.1	T		F51
C/2013 P3	2017 08 12.59179	01 31 26.384	−44 00 10.04	19.7	T		F51
C/2013 P3	2017 08 12.60005	01 31 26.314	−44 00 13.51	20.1	T		F51
C/2013 P3	2017 08 12.60831	01 31 26.253	−44 00 16.69	19.8	T		F51
C/2013 P3	2017 08 13.57340	01 31 19.478	−44 06 57.06	20.2	T		F51
C/2013 P3	2017 08 13.58179	01 31 19.382	−44 07 00.76	19.9	T		F51
C/2013 P3	2017 08 13.59019	01 31 19.305	−44 07 04.03	20.1	T		F51
C/2013 P3	2017 08 13.59860	01 31 19.259	−44 07 07.77	19.9	T		F51

C/2013 US_{10} (Catalina)

C/2013 US_{10}	2016 11 09.05368	04 46 06.23	+57 13 03.1	16.1	N		A24
C/2013 US_{10}	2016 11 09.05394	04 46 06.15	+57 13 03.2	16.8	N		A24
C/2013 US_{10}	2016 11 09.09655	04 46 00.65	+57 13 03.9	17.1	N		A24
C/2013 US_{10}	2016 11 09.09681	04 46 00.63	+57 13 03.6	17.4	N		A24
C/2013 US_{10}	2016 11 29.98251	04 01 31.27	+56 14 26.0	16.5	N		A24
C/2013 US_{10}	2016 11 29.98277	04 01 31.16	+56 14 25.0	16.5	N		A24
C/2013 US_{10}	2016 11 30.02707	04 01 25.77	+56 14 10.3	16.9	N		A24
C/2013 US_{10}	2016 11 30.02733	04 01 25.76	+56 14 10.6	16.8	N		A24
C/2013 US_{10}	2016 11 30.95973	03 59 33.87	+56 08 53.5	17.3	N		A24
C/2013 US_{10}	2016 11 30.95998	03 59 33.75	+56 08 52.1	17.8	N		A24
C/2013 US_{10}	2016 12 01.00347	03 59 28.61	+56 08 38.5	17.7	N		A24
C/2013 US_{10}	2016 12 01.00373	03 59 28.52	+56 08 36.1	17.6	N		A24
C/2013 US_{10}	2016 12 01.96585	03 57 34.14	+56 02 54.8	17.2	N		A24
C/2013 US_{10}	2016 12 01.96612	03 57 34.11	+56 02 54.7	17.2	N		A24
C/2013 US_{10}	2016 12 02.01246	03 57 28.58	+56 02 37.7	17.4	N		A24
C/2013 US_{10}	2016 12 02.01274	03 57 28.52	+56 02 37.5	17.4	N		A24
C/2013 US_{10}	2017 08 24.20812	04 06 10.97	+47 15 55.5	19.4	T	9	G40
C/2013 US_{10}	2017 08 24.21673	04 06 10.90	+47 15 57.7	19.5	T	9	G40
C/2013 US_{10}	2017 08 29.02552	04 05 20.83	+47 29 18.3	18.3	N	K	C23
C/2013 US_{10}	2017 08 29.03562	04 05 20.11	+47 29 17.5	19.4	N	K	C23
C/2013 US_{10}	2017 09 16.639316	03 59 05.286	+48 15 00.41	22.8	T	29	568
C/2013 US_{10}	2017 09 17.08313	03 58 52.35	+48 15 53.2	18.7	N	K	C23
C/2013 US_{10}	2017 09 17.09179	03 58 52.46	+48 15 55.4	18.8	N	K	C23
C/2013 US_{10}	2017 09 18.92470	03 57 59.44	+48 19 40.3	18.1	N	K	I81
C/2013 US_{10}	2017 09 18.92897	03 57 59.27	+48 19 40.8	18.3	N	K	I81

C/2013 V4 (Catalina)

C/2013 V4	2017 05 06.17335	14 06 32.61	+70 48 29.7	17.3	T		H15
C/2013 V4	2017 05 06.18315	14 06 31.85	+70 48 26.6	17.2	T		H15
C/2013 V4	2017 05 06.19277	14 06 30.86	+70 48 23.1	17.2	T		H15
C/2013 V4	2017 07 12.93235	13 32 19.22	+60 22 33.8	17.3	N	K	970
C/2013 V4	2017 07 12.93458	13 32 19.29	+60 22 33.2	17.4	N	K	C23
C/2013 V4	2017 07 12.93673	13 32 19.29	+60 22 31.4	17.3	N	K	970
C/2013 V4	2017 07 12.93747	13 32 19.31	+60 22 30.5	17.4	N	K	C23
C/2013 V4	2017 07 12.94180	13 32 19.43	+60 22 28.4	17.6	N	K	C23
C/2013 V4	2017 07 14.90191	13 32 44.01	+60 01 20.0	18.2	N	9	G40
C/2013 V4	2017 07 14.91587	13 32 44.18	+60 01 11.2	18.1	N	9	G40
C/2013 V4	2017 07 15.28142	13 32 49.05	+59 57 14.7	18.3	T		T08
C/2013 V4	2017 07 15.29560	13 32 49.18	+59 57 05.5	18.3	T		T08
C/2013 V4	2017 07 15.30629	13 32 49.46	+59 57 00.0	18.2	T		T08
C/2013 V4	2017 07 15.31071	13 32 49.43	+59 56 56.3	18.4	T		T08
C/2013 V4	2017 07 21.28172	13 34 25.31	+58 52 44.9	18.4	T		T05
C/2013 V4	2017 07 21.28269	13 34 25.29	+58 52 44.4	18.3	T		T05
C/2013 V4	2017 07 21.29419	13 34 25.48	+58 52 37.5	18.5	T		T05
C/2013 V4	2017 07 21.29713	13 34 25.60	+58 52 33.7	18.6	T		T05
C/2013 V4	2017 07 21.30156	13 34 25.53	+58 52 30.4	18.3	T		T05
C/2013 V4	2017 07 21.30762	13 34 25.67	+58 52 27.5	18.6	T		T05
C/2013 V4	2017 07 21.31108	13 34 25.85	+58 52 25.4	18.4	T		T05
C/2013 V4	2017 07 23.28240	13 35 03.20	+58 31 20.1	17.9	T		T08
C/2013 V4	2017 07 23.29420	13 35 03.51	+58 31 13.9	18.2	T		T08
C/2013 V4	2017 07 23.30104	13 35 03.58	+58 31 08.4	18.2	T		T08
C/2013 V4	2017 07 23.30981	13 35 03.78	+58 31 01.6	18.1	T		T08
C/2013 V4	2017 07 25.29343	13 35 44.42	+58 09 52.0	18.7	T		T05
C/2013 V4	2017 07 25.30265	13 35 44.60	+58 09 47.8	18.7	T		T05
C/2013 V4	2017 07 25.31117	13 35 44.68	+58 09 42.6	18.5	T		T05
C/2013 V4	2017 07 25.32861	13 35 44.93	+58 09 31.3	18.7	T		T05
C/2013 V4	2017 07 27.88529	13 36 41.34	+57 42 24.4	17.8	N		I72
C/2013 V4	2017 07 27.92791	13 36 42.27	+57 41 56.5	17.9	N		I72
C/2013 V4	2017 07 27.97302	13 36 43.21	+57 41 28.1	17.8	N		I72
C/2013 V4	2017 08 05.87459	13 40 30.25	+56 08 20.7	17.6	N	K	C23
C/2013 V4	2017 08 05.87819	13 40 30.35	+56 08 18.6	17.5	N	K	C23
C/2013 V4	2017 08 05.88180	13 40 30.46	+56 08 16.6	17.5	N	K	C23
C/2013 V4	2017 08 11.25356	13 43 07.71	+55 13 24.5	18.9	T		T05
C/2013 V4	2017 08 11.26502	13 43 08.16	+55 13 17.2	18.2	T		T05
C/2013 V4	2017 08 11.27777	13 43 08.52	+55 13 08.3	19.4	T		T05

C/2013 V4	2017 08 11.28202	13 43 08.71	+55 13 05.9	19.0	T	T05
C/2013 V4	2017 08 16.85171	13 46 06.42	+54 17 25.0	17.9	N	K C23
C/2013 V4	2017 08 16.85749	13 46 06.53	+54 17 22.0	17.8	N	K C23
C/2013 V4	2017 08 16.86182	13 46 06.59	+54 17 18.4	17.9	N	K C23
C/2013 V4	2017 09 15.81978	14 05 06.48	+49 46 06.2	17.9	N	K C23
C/2013 V4	2017 09 15.82339	14 05 06.61	+49 46 04.2	17.5	N	K C23
C/2013 V4	2017 09 15.82700	14 05 06.77	+49 46 01.2	18.0	N	K C23
C/2013 V4	2017 09 24.78690	14 11 28.78	+48 36 16.1	17.9	N	K C23
C/2013 V4	2017 09 24.79339	14 11 29.03	+48 36 13.0	17.7	N	K C23

C/2013 X1 (PANSTARRS)

C/2013 X1	2017 05 28.54421	12 36 43.04	−24 44 53.9	16.8	T	K D95
C/2013 X1	2017 05 28.55068	12 36 42.68	−24 44 49.8			K D95
C/2013 X1	2017 06 25.34711	12 25 02.95	−21 24 54.8	18.0	N	Q68
C/2013 X1	2017 06 25.36977	12 25 02.72	−21 24 47.6	18.1	N	Q68
C/2013 X1	2017 06 26.47741	12 24 51.25	−21 18 50.0	18.3	N	Q68
C/2013 X1	2017 06 26.49999	12 24 51.05	−21 18 42.6	18.1	N	Q68
C/2013 X1	2017 06 30.35999	12 24 19.89	−20 59 09.5	17.9	N	Q68
C/2013 X1	2017 06 30.38369	12 24 19.73	−20 59 02.7	18.1	N	Q68
C/2013 X1	2017 07 01.50368	12 24 13.02	−20 53 41.7	18.2	N	Q68
C/2013 X1	2017 07 01.52218	12 24 12.86	−20 53 37.9	18.3	N	Q68
C/2013 X1	2017 07 02.39320	12 24 08.44	−20 49 35.5	18.1	N	Q68
C/2013 X1	2017 07 02.41576	12 24 08.35	−20 49 29.2	18.3	N	Q68
C/2013 X1	2017 07 09.36976	12 23 53.30	−20 20 31.5	18.3	N	K Q68
C/2013 X1	2017 07 09.49658	12 23 53.29	−20 20 02.4	18.5	N	K Q68
C/2013 X1	2017 07 11.42049	12 23 55.48	−20 13 02.9	18.3	N	Q68
C/2013 X1	2017 07 11.44284	12 23 55.49	−20 12 58.0	18.5	N	Q68
C/2013 X1	2017 07 13.36599	12 24 00.16	−20 06 23.6	18.4	N	Q68
C/2013 X1	2017 07 13.38764	12 24 00.12	−20 06 19.5	18.3	N	Q68
C/2013 X1	2017 07 17.38666	12 24 17.38	−19 53 56.6	18.3	N	Q68
C/2013 X1	2017 07 17.40600	12 24 17.51	−19 53 53.5	18.2	N	Q68
C/2013 X1	2017 07 18.35907	12 24 23.07	−19 51 11.7	18.4	N	Q68
C/2013 X1	2017 07 18.38697	12 24 23.24	−19 51 07.1	18.5	N	Q68

C/2014 A4 (SONEAR)

C/2014 A4	2016 10 06.06366	21 52 46.35	+41 20 50.9	17.2	N	W71
C/2014 A4	2016 10 06.06568	21 52 46.22	+41 20 49.9	17.2	N	W71
C/2014 A4	2016 10 06.06752	21 52 46.04	+41 20 48.9	17.2	N	W71
C/2014 A4	2016 10 06.06936	21 52 45.85	+41 20 48.7	17.2	N	W71
C/2014 A4	2016 11 08.79050	21 23 53.29	+36 18 22.8	17.0	N	A24
C/2014 A4	2016 11 08.79122	21 23 53.29	+36 18 22.2	17.1	N	A24
C/2014 A4	2016 11 08.83394	21 23 51.91	+36 17 59.2	16.8	N	A24
C/2014 A4	2016 11 08.83466	21 23 51.88	+36 17 59.2	16.7	N	A24
C/2014 A4	2016 11 29.77623	21 18 12.45	+33 44 08.1	17.2	N	A24
C/2014 A4	2016 11 29.77694	21 18 12.46	+33 44 08.2	17.0	N	A24
C/2014 A4	2017 07 27.87314	20 34 08.29	+47 05 26.3	20.1	N	K A77
C/2014 A4	2017 07 27.93272	20 34 03.87	+47 05 22.2	19.6	N	K A77
C/2014 A4	2017 07 28.02529	20 33 56.91	+47 05 14.3	20.5	N	K A77
C/2014 A4	2017 07 28.06891	20 33 53.72	+47 05 10.6	20.3	N	K A77
C/2014 A4	2017 07 28.12176	20 33 49.78	+47 05 06.4	19.6	N	K A77
C/2014 A4	2017 09 17.116782	19 42 32.55	+42 34 08.0			K V03
C/2014 A4	2017 09 17.124439	19 42 32.12	+42 34 03.8	20.3	N	K V03

C/2014 OE$_4$ (PANSTARRS)

C/2014 OE$_4$	2017 07 06.41532	18 22 13.828	+65 48 01.39	18.3	T	F51
C/2014 OE$_4$	2017 07 06.43009	18 22 12.933	+65 48 03.69	18.3	T	F51
C/2014 OE$_4$	2017 07 06.44481	18 22 12.031	+65 48 05.91	18.3	T	F51
C/2014 OE$_4$	2017 07 07.69895	18 20 57.37	+65 51 10.9	16.3	T	349
C/2014 OE$_4$	2017 07 07.71110	18 20 56.66	+65 51 12.5			349
C/2014 OE$_4$	2017 07 08.40596	18 20 15.539	+65 52 48.52	17.6	T	F51
C/2014 OE$_4$	2017 07 08.41910	18 20 14.706	+65 52 50.38	17.6	T	F51
C/2014 OE$_4$	2017 07 08.43219	18 20 13.940	+65 52 52.01	17.6	T	F51
C/2014 OE$_4$	2017 07 08.44530	18 20 13.104	+65 52 53.88	17.7	T	F51
C/2014 OE$_4$	2017 07 11.39874	18 17 19.054	+65 58 41.23	18.3	T	F51
C/2014 OE$_4$	2017 07 11.41143	18 17 18.274	+65 58 42.57	18.5	T	F51
C/2014 OE$_4$	2017 07 11.42449	18 17 17.509	+65 58 43.86	18.1	T	F51
C/2014 OE$_4$	2017 07 11.43677	18 17 16.69	+65 58 44.7	16.9	T	T08
C/2014 OE$_4$	2017 07 11.43748	18 17 16.723	+65 58 45.18	18.3	T	F51
C/2014 OE$_4$	2017 07 11.45516	18 17 15.53	+65 58 46.2	16.9	T	T08
C/2014 OE$_4$	2017 07 11.45761	18 17 15.34	+65 58 46.2	17.0	T	T08
C/2014 OE$_4$	2017 07 11.46608	18 17 14.83	+65 58 47.5	16.9	T	T08
C/2014 OE$_4$	2017 07 11.47454	18 17 14.38	+65 58 47.9	16.9	T	T08
C/2014 OE$_4$	2017 07 11.47601	18 17 14.25	+65 58 48.5	17.0	T	T08
C/2014 OE$_4$	2017 07 11.47749	18 17 14.22	+65 58 48.4	16.9	T	T08
C/2014 OE$_4$	2017 07 11.49491	18 17 13.12	+65 58 50.2	16.9	T	T08
C/2014 OE$_4$	2017 07 13.01542	18 15 44.61	+66 01 12.3	16.4	N	C23
C/2014 OE$_4$	2017 07 13.01991	18 15 44.34	+66 01 11.9	16.2	N	C23
C/2014 OE$_4$	2017 07 13.02365	18 15 44.15	+66 01 13.1	16.3	N	C23
C/2014 OE$_4$	2017 07 15.45070	18 13 24.42	+66 04 09.9	16.9	T	T08
C/2014 OE$_4$	2017 07 15.47212	18 13 23.18	+66 04 11.1	16.9	T	T08
C/2014 OE$_4$	2017 07 15.47359	18 13 23.04	+66 04 11.2	16.9	T	T08
C/2014 OE$_4$	2017 07 15.49296	18 13 21.93	+66 04 12.3	16.8	T	T08
C/2014 OE$_4$	2017 07 17.44066	18 11 31.99	+66 05 51.0	17.1	T	T05
C/2014 OE$_4$	2017 07 17.45008	18 11 31.40	+66 05 51.1	17.1	T	T05
C/2014 OE$_4$	2017 07 17.45105	18 11 31.39	+66 05 51.3	17.2	T	T05
C/2014 OE$_4$	2017 07 17.46900	18 11 29.71	+66 05 43.9	16.9	T	T05
C/2014 OE$_4$	2017 07 20.62023	18 08 36.96	+66 07 08.7			K D81
C/2014 OE$_4$	2017 07 20.62099	18 08 36.81	+66 07 09.5			K D81
C/2014 OE$_4$	2017 07 20.62175	18 08 36.82	+66 07 08.9			K D81
C/2014 OE$_4$	2017 07 20.62251	18 08 36.72	+66 07 09.9	16.4	T	K D81
C/2014 OE$_4$	2017 07 20.91651	18 08 20.98	+66 07 11.9	16.1	N	C23
C/2014 OE$_4$	2017 07 20.92229	18 08 20.67	+66 07 11.9	16.6	N	C23
C/2014 OE$_4$	2017 07 20.92806	18 08 20.47	+66 07 12.4	16.1	N	C23
C/2014 OE$_4$	2017 07 21.40857	18 07 54.62	+66 07 15.3	17.2	T	T05
C/2014 OE$_4$	2017 07 21.41840	18 07 54.10	+66 07 14.8	17.3	T	T05
C/2014 OE$_4$	2017 07 21.43723	18 07 53.07	+66 07 14.8	17.1	T	T05
C/2014 OE$_4$	2017 07 21.43919	18 07 52.99	+66 07 14.8	17.1	T	T05
C/2014 OE$_4$	2017 07 23.38748	18 06 10.34	+66 06 59.6	16.8	T	T08
C/2014 OE$_4$	2017 07 23.39727	18 06 09.79	+66 06 59.8	16.9	T	T08
C/2014 OE$_4$	2017 07 23.41636	18 06 08.82	+66 06 59.4	16.9	T	T08
C/2014 OE$_4$	2017 07 23.41829	18 06 08.69	+66 06 59.1	16.9	T	T08
C/2014 OE$_4$	2017 07 25.40960	18 04 27.03	+66 06 08.0	17.2	T	T05
C/2014 OE$_4$	2017 07 25.41951	18 04 26.52	+66 06 07.6	17.2	T	T05
C/2014 OE$_4$	2017 07 25.43797	18 04 25.60	+66 06 07.0	17.3	T	T05
C/2014 OE$_4$	2017 07 25.44040	18 04 25.43	+66 06 07.0	17.4	T	T05
C/2014 OE$_4$	2017 07 27.95240	18 02 22.25	+66 04 10.0	16.3	N	C23

C/2014 OE_4	2017 07 27.95689	18 02 22.03	+66 04 09.5	16.3	N		C23
C/2014 OE_4	2017 07 27.96063	18 02 21.81	+66 04 09.9	16.7	N		C23
C/2014 OE_4	2017 07 31.38691	17 59 43.57	+66 00 04.3	16.9	T		T08
C/2014 OE_4	2017 07 31.39575	17 59 43.23	+66 00 03.2	17.0	T		T08
C/2014 OE_4	2017 07 31.39623	17 59 43.22	+66 00 03.9	17.0	T		T08
C/2014 OE_4	2017 07 31.39672	17 59 43.22	+66 00 03.3	17.0	T		T08
C/2014 OE_4	2017 07 31.39769	17 59 43.16	+66 00 02.6	17.1	T		T08
C/2014 OE_4	2017 07 31.39818	17 59 43.07	+66 00 03.0	17.1	T		T08
C/2014 OE_4	2017 07 31.41488	17 59 42.38	+66 00 01.5	17.0	T		T08
C/2014 OE_4	2017 08 02.36930	17 58 17.76	+65 56 59.1	17.2	T		T05
C/2014 OE_4	2017 08 02.37914	17 58 17.36	+65 56 58.1	17.2	T		T05
C/2014 OE_4	2017 08 02.39790	17 58 16.59	+65 56 56.1	17.2	T		T05
C/2014 OE_4	2017 08 02.40035	17 58 16.45	+65 56 56.0	17.3	T		T05
C/2014 OE_4	2017 08 04.36940	17 56 55.51	+65 53 21.0	16.9	T		T08
C/2014 OE_4	2017 08 04.37920	17 56 55.19	+65 53 19.7	16.8	T		T08
C/2014 OE_4	2017 08 04.38017	17 56 55.19	+65 53 19.8	16.9	T		T08
C/2014 OE_4	2017 08 04.39792	17 56 54.27	+65 53 17.3	16.9	T		T08
C/2014 OE_4	2017 08 05.94515	17 55 53.91	+65 50 08.3	16.5	N		C23
C/2014 OE_4	2017 08 05.94948	17 55 53.80	+65 50 07.9	16.4	N		C23
C/2014 OE_4	2017 08 05.95381	17 55 53.61	+65 50 07.0	16.3	N		C23
C/2014 OE_4	2017 08 06.37389	17 55 37.74	+65 49 13.9	16.7	N		T04
C/2014 OE_4	2017 08 06.38410	17 55 37.36	+65 49 12.7	16.8	N		T04
C/2014 OE_4	2017 08 06.39427	17 55 36.98	+65 49 11.0	16.7	N		T04
C/2014 OE_4	2017 08 06.95233	17 55 16.17	+65 47 55.6	16.7	N	K	Z80
C/2014 OE_4	2017 08 06.95473	17 55 16.08	+65 47 56.1	16.8	N	K	Z80
C/2014 OE_4	2017 08 06.95712	17 55 15.97	+65 47 55.5	16.7	N	K	Z80
C/2014 OE_4	2017 08 06.95952	17 55 15.85	+65 47 55.5	16.6	N	K	Z80
C/2014 OE_4	2017 08 06.96191	17 55 15.86	+65 47 55.1	16.7	N	K	Z80
C/2014 OE_4	2017 08 06.96431	17 55 15.75	+65 47 54.8	16.7	N	K	Z80
C/2014 OE_4	2017 08 07.35747	17 55 01.38	+65 47 02.1	17.3	T		T05
C/2014 OE_4	2017 08 07.36779	17 55 00.95	+65 47 00.6	17.2	T		T05
C/2014 OE_4	2017 08 07.36925	17 55 00.85	+65 47 00.6	17.2	T		T05
C/2014 OE_4	2017 08 07.37023	17 55 00.89	+65 47 00.3	17.3	T		T05
C/2014 OE_4	2017 08 07.37716	17 55 00.57	+65 46 59.5	17.4	T		T05
C/2014 OE_4	2017 08 07.37910	17 55 00.38	+65 47 00.0	17.8	T		T05
C/2014 OE_4	2017 08 07.38847	17 55 00.18	+65 46 56.7	17.0	T		T05
C/2014 OE_4	2017 08 09.57689	17 53 43.37	+65 41 39.2			K	D81
C/2014 OE_4	2017 08 09.58109	17 53 43.24	+65 41 38.2			K	D81
C/2014 OE_4	2017 08 09.59216	17 53 42.91	+65 41 38.3	15.9	T	K	D81
C/2014 OE_4	2017 08 09.60765	17 53 42.34	+65 41 35.4	16.4	T		D29
C/2014 OE_4	2017 08 09.62378	17 53 41.77	+65 41 32.7	16.3	T		D29
C/2014 OE_4	2017 08 09.63991	17 53 41.26	+65 41 29.9	16.5	T		D29
C/2014 OE_4	2017 08 10.97192	17 52 57.64	+65 38 01.0	16.8	N	K	K02
C/2014 OE_4	2017 08 10.97423	17 52 57.56	+65 38 00.7	16.8	N	K	K02
C/2014 OE_4	2017 08 12.92651	17 51 57.78	+65 32 35.3	16.7	N	9	G40
C/2014 OE_4	2017 08 12.93512	17 51 57.50	+65 32 33.8	16.7	N	9	G40
C/2014 OE_4	2017 08 13.96995	17 51 27.68	+65 29 30.2	17.2	N		K02
C/2014 OE_4	2017 08 13.97459	17 51 27.52	+65 29 29.3	16.9	N		K02
C/2014 OE_4	2017 08 13.97925	17 51 27.37	+65 29 28.9	16.7	N		K02
C/2014 OE_4	2017 08 14.86937	17 51 02.98	+65 26 47.0	16.5	N		C23
C/2014 OE_4	2017 08 14.87370	17 51 02.84	+65 26 46.3	16.4	N		C23
C/2014 OE_4	2017 08 14.87803	17 51 02.73	+65 26 45.3	16.4	N		C23
C/2014 OE_4	2017 08 15.34109	17 50 50.36	+65 25 19.8	17.4	T		T05
C/2014 OE_4	2017 08 15.35919	17 50 49.90	+65 25 16.2	17.5	T		T05
C/2014 OE_4	2017 08 15.36850	17 50 49.62	+65 25 14.7	17.4	T		T05
C/2014 OE_4	2017 08 15.36898	17 50 49.59	+65 25 14.2	17.4	T		T05
C/2014 OE_4	2017 08 15.95994	17 50 34.37	+65 23 22.8	16.5	N		K02
C/2014 OE_4	2017 08 15.96611	17 50 34.27	+65 23 21.3	17.0	N		K02
C/2014 OE_4	2017 08 15.97230	17 50 34.13	+65 23 20.2	17.0	N		K02
C/2014 OE_4	2017 08 17.02044	17 50 08.19	+65 19 57.6	16.8	N		Z17
C/2014 OE_4	2017 08 17.03052	17 50 07.89	+65 19 55.7	16.8	N		Z17
C/2014 OE_4	2017 08 17.03812	17 50 07.75	+65 19 53.9	16.8	N		Z17
C/2014 OE_4	2017 08 17.30857	17 50 01.467	+65 19 01.73	18.3	T		F51
C/2014 OE_4	2017 08 17.32246	17 50 01.081	+65 18 58.84	18.5	T		F51
C/2014 OE_4	2017 08 17.33634	17 50 00.778	+65 18 56.30	18.4	T		F51
C/2014 OE_4	2017 08 17.34081	17 50 00.48	+65 18 54.1	16.7	T		T08
C/2014 OE_4	2017 08 17.34133	17 50 00.46	+65 18 54.3	16.8	T		T08
C/2014 OE_4	2017 08 17.34184	17 50 00.46	+65 18 53.7	16.7	T		T08
C/2014 OE_4	2017 08 17.35025	17 50 00.405	+65 18 53.30	18.6	T		F51
C/2014 OE_4	2017 08 17.35069	17 50 00.24	+65 18 52.0	16.6	T		T08
C/2014 OE_4	2017 08 17.35119	17 50 00.24	+65 18 52.2	16.7	T		T08
C/2014 OE_4	2017 08 17.36994	17 49 59.84	+65 18 49.1	16.9	T		T08
C/2014 OE_4	2017 08 17.37044	17 49 59.79	+65 18 48.1	16.7	T		T08
C/2014 OE_4	2017 08 17.37354	17 49 59.73	+65 18 47.8	16.8	T		T08
C/2014 OE_4	2017 08 19.33756	17 49 16.20	+65 12 09.0	17.2	T		T05
C/2014 OE_4	2017 08 19.34731	17 49 15.94	+65 12 06.8	17.3	T		T05
C/2014 OE_4	2017 08 19.34876	17 49 15.95	+65 12 06.6	17.3	T		T05
C/2014 OE_4	2017 08 19.36654	17 49 15.56	+65 12 02.7	17.2	T		T05
C/2014 OE_4	2017 08 23.32087	17 48 04.01	+64 57 44.1	17.2	T		T05
C/2014 OE_4	2017 08 23.33867	17 48 03.71	+64 57 39.6	17.0	T		T05
C/2014 OE_4	2017 08 23.34914	17 48 03.55	+64 57 37.3	17.0	T		T05
C/2014 OE_4	2017 08 23.35013	17 48 03.53	+64 57 37.3	16.9	T		T05
C/2014 OE_4	2017 08 25.34790	17 47 35.70	+64 49 57.3	16.5	T		T08
C/2014 OE_4	2017 08 25.35594	17 47 35.62	+64 49 55.1	16.3	T		T08
C/2014 OE_4	2017 08 25.35844	17 47 35.52	+64 49 54.7	16.4	T		T08
C/2014 OE_4	2017 08 25.35992	17 47 35.52	+64 49 54.4	16.6	T		T08
C/2014 OE_4	2017 08 27.32485	17 47 13.76	+64 42 07.7	16.4	T		T05
C/2014 OE_4	2017 08 27.33509	17 47 13.66	+64 42 05.4	16.5	T		T05
C/2014 OE_4	2017 08 27.33703	17 47 13.63	+64 42 04.8	16.5	T		T05
C/2014 OE_4	2017 08 27.35256	17 47 13.45	+64 42 01.1	16.5	T		T05
C/2014 OE_4	2017 08 27.87341	17 47 08.69	+64 39 54.7	16.5	N		C23
C/2014 OE_4	2017 08 27.87774	17 47 08.63	+64 39 53.7	16.3	N		C23
C/2014 OE_4	2017 08 27.88207	17 47 08.55	+64 39 52.3	16.4	N		C23
C/2014 OE_4	2017 09 04.31389	17 46 39.89	+64 08 23.7	16.5	T		T05
C/2014 OE_4	2017 09 04.32450	17 46 39.86	+64 08 20.2	16.5	T		T05
C/2014 OE_4	2017 09 04.34186	17 46 39.94	+64 08 15.3	16.5	T		T05
C/2014 OE_4	2017 09 04.34467	17 46 39.92	+64 08 15.5	17.2	T		T05
C/2014 OE_4	2017 09 04.35935	17 46 39.94	+64 08 11.3	16.5	T		T05
C/2014 OE_4	2017 09 04.36213	17 46 39.87	+64 08 11.0	17.4	T		T05
C/2014 OE_4	2017 09 08.32543	17 46 55.68	+63 50 29.1	17.2	T		T05
C/2014 OE_4	2017 09 08.33046	17 46 55.73	+63 50 27.3	16.5	T		T05
C/2014 OE_4	2017 09 08.33091	17 46 55.65	+63 50 26.7	16.4	T		T05
C/2014 OE_4	2017 09 08.34077	17 46 55.74	+63 50 24.0	16.5	T		T05
C/2014 OE_4	2017 09 09.92186	17 47 08.01	+63 43 13.9	16.7	N	9	G40
C/2014 OE_4	2017 09 09.93067	17 47 08.08	+63 43 10.7	16.7	N	9	G40
C/2014 OE_4	2017 09 09.94553	17 47 08.14	+63 43 07.0	16.7	N	9	G40

C/2014 OE_4	2017 09 14.28276	17 47 58.39	+63 23 05.5	16.6	T	T08
C/2014 OE_4	2017 09 14.28659	17 47 58.46	+63 23 04.6	16.6	T	T08
C/2014 OE_4	2017 09 14.30247	17 47 58.67	+63 22 59.8	16.6	T	T08
C/2014 OE_4	2017 09 14.30803	17 47 58.73	+63 22 58.5	16.5	T	T08
C/2014 OE_4	2017 09 15.53529	17 48 17.58	+63 17 15.4		K	D81
C/2014 OE_4	2017 09 15.53884	17 48 17.66	+63 17 14.2		K	D81
C/2014 OE_4	2017 09 15.54286	17 48 17.63	+63 17 13.2		K	D81
C/2014 OE_4	2017 09 15.54639	17 48 17.67	+63 17 12.2	15.2	T	D95
C/2014 OE_4	2017 09 15.54687	17 48 17.65	+63 17 11.9	16.6	T K	D81
C/2014 OE_4	2017 09 15.55911	17 48 17.86	+63 17 08.6			D95
C/2014 OE_4	2017 09 15.56547	17 48 17.95	+63 17 06.9			D95
C/2014 OE_4	2017 09 15.88196	17 48 23.15	+63 15 37.9	16.3	N	C23
C/2014 OE_4	2017 09 15.88629	17 48 23.25	+63 15 37.0	16.4	N	C23
C/2014 OE_4	2017 09 15.89062	17 48 23.30	+63 15 35.7	16.5	N	C23
C/2014 OE_4	2017 09 16.27786	17 48 29.72	+63 13 47.3	16.8	T	T05
C/2014 OE_4	2017 09 16.28667	17 48 29.91	+63 13 44.6	16.8	T	T05
C/2014 OE_4	2017 09 16.28945	17 48 29.97	+63 13 44.3	17.4	T	T05
C/2014 OE_4	2017 09 16.29600	17 48 30.10	+63 13 42.5	17.4	T	T05
C/2014 OE_4	2017 09 16.30342	17 48 30.22	+63 13 39.9	17.3	T	T05
C/2014 OE_4	2017 09 16.30616	17 48 30.21	+63 13 39.1	16.8	T	T05
C/2014 OE_4	2017 09 16.30707	17 48 30.20	+63 13 39.3	17.3	T	T05
C/2014 OE_4	2017 09 16.30799	17 48 30.23	+63 13 38.6	16.9	T	T05
C/2014 OE_4	2017 09 18.26780	17 49 06.03	+63 04 27.4	16.5	T	T08
C/2014 OE_4	2017 09 18.27335	17 49 06.18	+63 04 26.1	17.0	T	T08
C/2014 OE_4	2017 09 18.28122	17 49 06.31	+63 04 23.4	16.5	T	T08
C/2014 OE_4	2017 09 18.28259	17 49 06.36	+63 04 22.8	16.6	T	T08
C/2014 OE_4	2017 09 18.28352	17 49 06.37	+63 04 23.3	17.0	T	T08
C/2014 OE_4	2017 09 18.28582	17 49 06.37	+63 04 22.1	16.5	T	T08
C/2014 OE_4	2017 09 18.28816	17 49 06.43	+63 04 21.4	16.5	T	T08
C/2014 OE_4	2017 09 18.29894	17 49 06.64	+63 04 18.0	16.5	T	T08
C/2014 OE_4	2017 09 18.55416	17 49 11.56	+63 03 06.7	16.5	T K	Q11
C/2014 OE_4	2017 09 18.55983	17 49 11.69	+63 03 05.3		K	Q11
C/2014 OE_4	2017 09 18.56547	17 49 11.82	+63 03 03.9		K	Q11
C/2014 OE_4	2017 09 18.60816	17 49 12.71	+63 02 50.1		K	D81
C/2014 OE_4	2017 09 18.60969	17 49 12.71	+63 02 49.8		K	D81
C/2014 OE_4	2017 09 18.61122	17 49 12.76	+63 02 49.0		K	D81
C/2014 OE_4	2017 09 18.61274	17 49 12.80	+63 02 49.2	16.8	T K	D81
C/2014 OE_4	2017 09 24.81744	17 51 40.13	+62 33 41.0	16.1	N	C23
C/2014 OE_4	2017 09 24.82177	17 51 40.32	+62 33 39.9	16.2	N	C23
C/2014 OE_4	2017 09 24.82609	17 51 40.38	+62 33 38.9	16.2	N	C23
C/2014 OE_4	2017 09 26.26206	17 52 21.04	+62 26 55.4	16.5	T	T08
C/2014 OE_4	2017 09 26.26856	17 52 21.21	+62 26 54.0	16.9	T	T08
C/2014 OE_4	2017 09 26.27925	17 52 21.54	+62 26 51.0	17.0	T	T08
C/2014 OE_4	2017 09 26.28990	17 52 21.83	+62 26 47.7	17.0	T	T08

C/2014 W2 (PANSTARRS)

C/2014 W2	2017 05 24.07412	16 40 45.70	−11 54 39.7	18.0	T	J04
C/2014 W2	2017 05 24.08581	16 40 45.00	−11 54 42.7	17.6	T	J04
C/2014 W2	2017 05 24.09750	16 40 44.42	−11 54 47.3	18.4	T	J04
C/2014 W2	2017 05 24.10919	16 40 43.79	−11 54 50.6	18.7	T	J04
C/2014 W2	2017 06 22.60501	16 13 44.76	−14 13 00.0	17.6	N	Q68
C/2014 W2	2017 06 22.65245	16 13 42.49	−14 13 12.6	17.2	N	Q68
C/2014 W2	2017 06 23.60828	16 12 57.18	−14 17 44.6	17.6	N	Q68
C/2014 W2	2017 06 23.65603	16 12 54.90	−14 17 58.0	17.5	N	Q68
C/2014 W2	2017 06 25.51187	16 11 28.82	−14 26 45.8	17.8	N	Q68
C/2014 W2	2017 06 25.55704	16 11 26.73	−14 26 58.6	17.1	N	Q68
C/2014 W2	2017 06 26.56482	16 10 41.01	−14 31 45.0	17.6	N	Q68
C/2014 W2	2017 06 26.57088	16 10 40.74	−14 31 46.7	17.6	N	Q68
C/2014 W2	2017 06 30.47625	16 07 51.05	−14 50 16.2	17.6	N	Q68
C/2014 W2	2017 06 30.51968	16 07 49.21	−14 50 28.2	17.7	N	Q68
C/2014 W2	2017 07 01.57806	16 07 05.26	−14 55 28.9	17.8	N	Q68
C/2014 W2	2017 07 01.62362	16 07 03.37	−14 55 41.7	17.6	N	Q68
C/2014 W2	2017 07 02.48955	16 06 28.26	−14 59 47.3	17.8	N	Q68
C/2014 W2	2017 07 02.53489	16 06 26.40	−15 00 00.5	17.8	N	Q68
C/2014 W2	2017 07 12.92169	16 00 13.29	−15 49 02.3	17.2	N K	C23
C/2014 W2	2017 07 12.92602	16 00 13.25	−15 49 03.3	17.1	N K	C23
C/2014 W2	2017 07 12.93034	16 00 13.08	−15 49 05.1	17.1	N K	C23
C/2014 W2	2017 07 14.03405	15 59 38.77	−15 54 15.8	17.5	N	J22
C/2014 W2	2017 07 14.03986	15 59 38.59	−15 54 16.2	17.5	N	J22
C/2014 W2	2017 07 15.32816	15 59 00.190	−16 00 21.02	19.3	T	F51
C/2014 W2	2017 07 15.34016	15 58 59.820	−16 00 24.43	19.2	T	F51
C/2014 W2	2017 07 15.35208	15 58 59.471	−16 00 27.75	19.2	T	F51
C/2014 W2	2017 07 15.36611	15 58 59.041	−16 00 31.72	19.1	T	F51
C/2014 W2	2017 07 16.30296	15 58 31.998	−16 04 55.73	19.4	T	F51
C/2014 W2	2017 07 16.31273	15 58 31.709	−16 04 58.57	19.4	T	F51
C/2014 W2	2017 07 16.32251	15 58 31.443	−16 05 01.24	19.1	T	F51
C/2014 W2	2017 07 16.33225	15 58 31.136	−16 05 04.19	19.1	T	F51
C/2014 W2	2017 07 17.46443	15 57 59.49	−16 10 21.2	18.1	N	Q68
C/2014 W2	2017 07 17.51066	15 57 58.22	−16 10 33.8	18.3	N	Q68
C/2014 W2	2017 07 18.85724	15 57 22.24	−16 16 56.3	16.2	N	585
C/2014 W2	2017 07 18.85795	15 57 22.22	−16 16 56.5	16.3	N	585
C/2014 W2	2017 07 18.85865	15 57 22.17	−16 16 55.9	16.3	N	585
C/2014 W2	2017 07 18.85936	15 57 22.19	−16 16 56.5	16.4	N	585
C/2014 W2	2017 07 18.86007	15 57 22.15	−16 16 56.8	16.3	N	585
C/2014 W2	2017 07 18.86078	15 57 22.16	−16 16 56.1	16.2	N	585
C/2014 W2	2017 07 19.53532	15 57 04.42	−16 20 04.8	18.0	N	Q68
C/2014 W2	2017 07 19.58568	15 57 03.09	−16 20 18.0	18.1	N	Q68
C/2014 W2	2017 07 20.32651	15 56 44.39	−16 23 48.2	17.8	T	T08
C/2014 W2	2017 07 20.33526	15 56 44.15	−16 23 50.9	17.9	T	T08
C/2014 W2	2017 07 20.34304	15 56 44.03	−16 23 53.2	17.7	T	T08
C/2014 W2	2017 07 20.35179	15 56 43.80	−16 23 55.0	17.9	T	T08
C/2014 W2	2017 07 20.54837	15 56 38.86	−16 24 49.3	18.0	N	Q68
C/2014 W2	2017 07 20.58246	15 56 38.03	−16 24 57.6	17.9	N	Q68
C/2014 W2	2017 07 21.53832	15 56 14.80	−16 29 27.5	18.2	N	Q68
C/2014 W2	2017 07 21.57527	15 56 13.91	−16 29 37.2	18.1	N	Q68
C/2014 W2	2017 07 22.52493	15 55 51.62	−16 34 04.7	18.0	N	Q68
C/2014 W2	2017 07 22.56357	15 55 50.81	−16 34 15.1	18.0	N	Q68
C/2014 W2	2017 07 24.90651	15 54 59.46	−16 45 16.3	18.2	N	9 G40
C/2014 W2	2017 07 24.91785	15 54 59.24	−16 45 18.4	18.1	N	9 G40
C/2014 W2	2017 07 26.31706	15 54 30.77	−16 51 50.5	18.2	T	T05
C/2014 W2	2017 07 26.32556	15 54 30.64	−16 51 52.3	18.4	T	T05
C/2014 W2	2017 07 26.33351	15 54 30.45	−16 51 54.7	18.3	T	T05
C/2014 W2	2017 07 26.34197	15 54 30.26	−16 51 57.3	18.4	T	T05
C/2014 W2	2017 07 26.89550	15 54 19.65	−16 54 32.5	17.6	N	J22
C/2014 W2	2017 07 26.89946	15 54 19.56	−16 54 34.3	17.6	N	J22
C/2014 W2	2017 07 26.90329	15 54 19.46	−16 54 35.0	17.6	N	J22

C/2014 W2	2017 08 14.27478	15 50 49.94	−18 20 03.9	17.8	T		T08
C/2014 W2	2017 08 14.28306	15 50 49.89	−18 20 07.1	18.2	T		T08
C/2014 W2	2017 08 14.29133	15 50 49.86	−18 20 09.5	17.6	T		T08
C/2014 W2	2017 08 14.29912	15 50 49.84	−18 20 10.9	17.8	T		T08
C/2014 W2	2017 08 16.27514	15 50 43.44	−18 29 20.5	18.8	T		T05
C/2014 W2	2017 08 16.28365	15 50 43.48	−18 29 23.9	18.4	T		T05
C/2014 W2	2017 08 16.29209	15 50 43.38	−18 29 25.6	18.9	T		T05
C/2014 W2	2017 08 16.30047	15 50 43.44	−18 29 28.1	18.4	T		T05
C/2014 W2	2017 08 20.27542	15 50 39.61	−18 47 51.3	17.9	T		T05
C/2014 W2	2017 08 20.28336	15 50 39.61	−18 47 53.2	18.7	T		T05
C/2014 W2	2017 08 20.29135	15 50 39.57	−18 47 55.6	18.6	T		T05
C/2014 W2	2017 08 20.29924	15 50 39.63	−18 47 57.2	18.3	T		T05
C/2014 W2	2017 08 24.26681	15 50 47.46	−19 06 17.6	18.8	T		T05
C/2014 W2	2017 08 24.27475	15 50 47.45	−19 06 19.4	17.9	T		T05
C/2014 W2	2017 08 24.28276	15 50 47.68	−19 06 21.6	19.0	T		T05
C/2014 W2	2017 08 24.29075	15 50 47.49	−19 06 24.9	18.8	T		T05
C/2014 W2	2017 09 01.24426	15 51 35.93	−19 43 00.8	18.6	T		T05
C/2014 W2	2017 09 01.24988	15 51 36.23	−19 43 02.2	17.4	T		T05
C/2014 W2	2017 09 01.25749	15 51 36.15	−19 43 06.0	18.4	T		T05
C/2014 W2	2017 09 01.26558	15 51 36.24	−19 43 07.3	18.6	T		T05
C/2014 W2	2017 09 11.22823	15 53 32.83	−20 28 44.2	18.3	T		T08
C/2014 W2	2017 09 11.23332	15 53 32.93	−20 28 45.6	18.3	T		T08
C/2014 W2	2017 09 11.24031	15 53 33.04	−20 28 48.0	18.4	T		T08
C/2014 W2	2017 09 11.24864	15 53 33.04	−20 28 48.9	18.3	T		T08

C/2015 B2 (PANSTARRS)

C/2015 B2	2017 07 30.49322	23 26 01.973	−05 50 56.83	21.6	T		F51
C/2015 B2	2017 07 30.50525	23 26 01.318	−05 50 56.28	21.5	T		F51
C/2015 B2	2017 07 30.51721	23 26 00.657	−05 50 56.06	21.6	T		F51
C/2015 B2	2017 08 03.52965	23 22 18.139	−05 48 00.10	21.7	T		F51
C/2015 B2	2017 08 03.54041	23 22 17.525	−05 47 59.86	21.5	T		F51
C/2015 B2	2017 08 03.55120	23 22 16.921	−05 47 59.47	21.8	T		F51
C/2015 B2	2017 08 03.56195	23 22 16.308	−05 47 58.75	21.7	T		F51
C/2015 B2	2017 08 20.412518	23 05 09.725	−05 42 05.84	20.5	T		29 568
C/2015 B2	2017 08 20.414396	23 05 09.602	−05 42 05.87	20.5	T		29 568
C/2015 B2	2017 08 28.38428	22 56 34.95	−05 41 42.6	20.0	T		G96
C/2015 B2	2017 08 28.39017	22 56 34.62	−05 41 40.9	20.2	T		G96
C/2015 B2	2017 08 28.39606	22 56 34.25	−05 41 41.4	19.8	T		G96
C/2015 B2	2017 08 28.40195	22 56 33.83	−05 41 40.9	20.1	T		G96
C/2015 B2	2017 09 01.38466	22 52 16.13	−05 41 44.1	19.9	T		G96
C/2015 B2	2017 09 01.38887	22 52 15.92	−05 41 44.9	19.7	T		G96
C/2015 B2	2017 09 01.39728	22 52 15.35	−05 41 43.6	19.8	T		G96
C/2015 B2	2017 09 12.32087	22 40 44.165	−05 41 42.73	21.6	T		F51
C/2015 B2	2017 09 12.33249	22 40 43.448	−05 41 42.53	21.5	T		F51
C/2015 B2	2017 09 12.35575	22 40 41.994	−05 41 42.44	21.5	T		F51

C/2015 D3 (PANSTARRS)

C/2015 D3	2017 01 27.47201	10 23 23.40	+27 50 25.3				32H06
C/2015 D3	2017 01 27.47407	10 23 23.31	+27 50 26.0				32H06
C/2015 D3	2017 01 27.47614	10 23 23.23	+27 50 26.7	18.7	T		32H06

C/2015 ER_{61} (PANSTARRS)

C/2015 ER_{61}	2017 05 22.75543	00 25 45.22	+08 21 17.6	12.5	N	K	Q19
C/2015 ER_{61}	2017 05 22.76064	00 25 46.38	+08 21 25.0	12.6	N	K	Q19
C/2015 ER_{61}	2017 05 22.76411	00 25 47.11	+08 21 30.4	12.3	N	K	Q19
C/2015 ER_{61}	2017 05 22.76932	00 25 48.38	+08 21 37.2	12.6	N	K	Q19
C/2015 ER_{61}	2017 05 22.77279	00 25 49.08	+08 21 40.7	12.6	N	K	Q19
C/2015 ER_{61}	2017 05 22.77626	00 25 49.88	+08 21 47.9	12.4	N	K	Q19
C/2015 ER_{61}	2017 05 28.73967	00 47 36.18	+10 38 42.5	9.7	T		D95
C/2015 ER_{61}	2017 05 28.74582	00 47 37.50	+10 38 50.3				D95
C/2015 ER_{61}	2017 05 28.74850	00 47 38.06	+10 38 54.0				D95
C/2015 ER_{61}	2017 06 04.73619	01 11 34.80	+13 01 00.9				349
C/2015 ER_{61}	2017 06 04.73784	01 11 35.14	+13 01 03.1				349
C/2015 ER_{61}	2017 06 04.73943	01 11 35.47	+13 01 05.1	9.4	T		349
C/2015 ER_{61}	2017 07 02.04768	02 29 42.03	+19 27 02.3	14.7	N	K	A71
C/2015 ER_{61}	2017 07 02.05306	02 29 42.87	+19 27 05.3	14.3	N	K	A71
C/2015 ER_{61}	2017 07 02.05843	02 29 43.60	+19 27 08.3	14.5	N	K	A71
C/2015 ER_{61}	2017 07 02.06311	02 29 44.27	+19 27 11.1	15.1	N	K	A71
C/2015 ER_{61}	2017 07 03.17316	02 32 24.35	+19 38 00.7	13.7	N		J22
C/2015 ER_{61}	2017 07 03.17510	02 32 24.64	+19 38 01.7	13.7	N		J22
C/2015 ER_{61}	2017 07 03.17576	02 32 24.73	+19 38 02.4	13.7	N		J22
C/2015 ER_{61}	2017 07 03.40437	02 32 57.26	+19 40 18.8	14.4	N		G39
C/2015 ER_{61}	2017 07 03.41336	02 32 58.51	+19 40 24.0	14.2	N		G39
C/2015 ER_{61}	2017 07 03.41558	02 32 58.80	+19 40 25.4	14.2	N		G39
C/2015 ER_{61}	2017 07 04.40429	02 35 18.98	+19 49 42.1	14.4	N		G39
C/2015 ER_{61}	2017 07 04.40807	02 35 19.46	+19 49 43.0	14.4	N		G39
C/2015 ER_{61}	2017 07 04.41334	02 35 20.18	+19 49 46.6	14.2	N		G39
C/2015 ER_{61}	2017 07 04.41557	02 35 20.50	+19 49 48.4	14.2	N		G39
C/2015 ER_{61}	2017 07 05.03090	02 36 46.70	+19 55 19.9	14.4	N	K	A71
C/2015 ER_{61}	2017 07 05.03714	02 36 47.61	+19 55 23.2	15.0	N	K	A71
C/2015 ER_{61}	2017 07 05.04486	02 36 48.66	+19 55 27.7	14.8	N	K	A71
C/2015 ER_{61}	2017 07 05.40432	02 37 38.69	+19 58 49.8	14.6	N		G39
C/2015 ER_{61}	2017 07 05.40810	02 37 39.24	+19 58 51.9	14.4	N		G39
C/2015 ER_{61}	2017 07 05.41252	02 37 39.84	+19 58 54.1	14.4	N		G39
C/2015 ER_{61}	2017 07 05.41475	02 37 40.16	+19 58 55.9	14.4	N		G39
C/2015 ER_{61}	2017 07 06.17512	02 39 25.24	+20 05 36.3	14.0	N	9	G40
C/2015 ER_{61}	2017 07 06.19086	02 39 27.39	+20 05 44.8	13.9	N	9	G40
C/2015 ER_{61}	2017 07 06.21172	02 39 30.23	+20 05 56.0	14.0	N	9	G40
C/2015 ER_{61}	2017 07 06.22032	02 39 31.41	+20 06 00.7	14.1	N	9	G40
C/2015 ER_{61}	2017 07 06.40432	02 39 56.55	+20 07 43.2	14.5	N		G39
C/2015 ER_{61}	2017 07 06.40662	02 39 56.83	+20 07 43.7	14.3	N		G39
C/2015 ER_{61}	2017 07 06.41189	02 39 57.65	+20 07 46.5	14.4	N		G39
C/2015 ER_{61}	2017 07 06.41485	02 39 57.99	+20 07 48.3	14.3	N		G39
C/2015 ER_{61}	2017 07 07.08269	02 41 29.13	+20 13 28.6	15.5	N	K	160
C/2015 ER_{61}	2017 07 07.08461	02 41 29.36	+20 13 30.0	15.6	N	K	160
C/2015 ER_{61}	2017 07 07.08653	02 41 29.57	+20 13 30.7	15.6	N	K	160
C/2015 ER_{61}	2017 07 07.40664	02 42 12.87	+20 16 21.5	14.5	N		G39
C/2015 ER_{61}	2017 07 07.40847	02 42 13.09	+20 16 22.2	14.3	N		W96
C/2015 ER_{61}	2017 07 07.41183	02 42 13.55	+20 16 24.5	14.3	N		G39
C/2015 ER_{61}	2017 07 07.41406	02 42 13.88	+20 16 25.5	14.3	N		G39
C/2015 ER_{61}	2017 07 07.41634	02 42 14.20	+20 16 26.8	14.2	N		W96
C/2015 ER_{61}	2017 07 07.42578	02 42 15.44	+20 16 31.5	14.2	N		W96
C/2015 ER_{61}	2017 07 07.57653	02 42 35.87	+20 17 43.7	14.6	T		T05
C/2015 ER_{61}	2017 07 07.58083	02 42 36.46	+20 17 46.0	14.6	T		T05
C/2015 ER_{61}	2017 07 07.58462	02 42 36.97	+20 17 47.9	14.6	T		T05
C/2015 ER_{61}	2017 07 07.58931	02 42 37.58	+20 17 50.4	14.5	T		T05
C/2015 ER_{61}	2017 07 07.59404	02 42 38.22	+20 17 52.7	14.7	T		T05

C/2015 ER_{61}	2017 07 07.60430	02 42 39.58	+20 17 58.0	14.6	T	T05
C/2015 ER_{61}	2017 07 07.75281	02 42 59.52	+20 19 11.9	10.5	T	349
C/2015 ER_{61}	2017 07 07.75587	02 42 59.95	+20 19 13.2			349
C/2015 ER_{61}	2017 07 07.75891	02 43 00.36	+20 19 14.9			349
C/2015 ER_{61}	2017 07 08.40432	02 44 26.64	+20 24 43.8	14.7	N	G39
C/2015 ER_{61}	2017 07 08.40506	02 44 26.71	+20 24 44.0	14.6	N	G39
C/2015 ER_{61}	2017 07 08.40580	02 44 26.91	+20 24 44.4	14.6	N	G39
C/2015 ER_{61}	2017 07 08.40662	02 44 26.98	+20 24 45.1	14.4	N	G39
C/2015 ER_{61}	2017 07 08.40818	02 44 27.16	+20 24 45.8	14.5	N	G39
C/2015 ER_{61}	2017 07 08.41179	02 44 27.63	+20 24 47.6	14.5	N	G39
C/2015 ER_{61}	2017 07 08.41253	02 44 27.74	+20 24 47.9	14.6	N	G39
C/2015 ER_{61}	2017 07 08.41328	02 44 27.87	+20 24 48.3	14.5	N	G39
C/2015 ER_{61}	2017 07 08.41402	02 44 27.92	+20 24 48.8	14.6	N	G39
C/2015 ER_{61}	2017 07 08.41476	02 44 28.09	+20 24 49.0	14.5	N	G39
C/2015 ER_{61}	2017 07 08.56143	02 44 47.66	+20 25 56.7	14.6	T	T05
C/2015 ER_{61}	2017 07 08.56191	02 44 47.73	+20 25 57.1	14.6	T	T05
C/2015 ER_{61}	2017 07 08.56240	02 44 47.79	+20 25 57.3	14.7	T	T05
C/2015 ER_{61}	2017 07 08.57496	02 44 49.45	+20 26 03.4	14.7	T	T05
C/2015 ER_{61}	2017 07 09.10966	02 46 00.21	+20 30 23.5	15.4	N	K 160
C/2015 ER_{61}	2017 07 09.11200	02 46 00.51	+20 30 24.7	15.3	N	K 160
C/2015 ER_{61}	2017 07 09.11433	02 46 00.83	+20 30 25.8	15.3	N	K 160
C/2015 ER_{61}	2017 07 09.40582	02 46 39.07	+20 32 53.4	14.5	N	G39
C/2015 ER_{61}	2017 07 09.40819	02 46 39.39	+20 32 54.6	14.5	N	G39
C/2015 ER_{61}	2017 07 09.41405	02 46 40.11	+20 32 57.2	14.5	N	G39
C/2015 ER_{61}	2017 07 10.40431	02 48 49.23	+20 40 48.0	14.7	N	G39
C/2015 ER_{61}	2017 07 10.40506	02 48 49.28	+20 40 48.2	14.7	N	G39
C/2015 ER_{61}	2017 07 10.40580	02 48 49.40	+20 40 48.6	14.8	N	G39
C/2015 ER_{61}	2017 07 10.40809	02 48 49.59	+20 40 50.0	14.6	N	G39
C/2015 ER_{61}	2017 07 10.41031	02 48 49.95	+20 40 50.3	14.4	N	G39
C/2015 ER_{61}	2017 07 10.41176	02 48 50.06	+20 40 50.8	14.4	N	G39
C/2015 ER_{61}	2017 07 10.41250	02 48 50.22	+20 40 51.9	14.5	N	G39
C/2015 ER_{61}	2017 07 10.41324	02 48 50.27	+20 40 51.2	14.5	N	G39
C/2015 ER_{61}	2017 07 10.41398	02 48 50.46	+20 40 51.6	14.5	N	G39
C/2015 ER_{61}	2017 07 10.41472	02 48 50.49	+20 40 51.8	14.6	N	G39
C/2015 ER_{61}	2017 07 10.41546	02 48 50.54	+20 40 53.2	14.6	N	G39
C/2015 ER_{61}	2017 07 10.59301	02 49 13.68	+20 42 11.0	14.9	T	T05
C/2015 ER_{61}	2017 07 10.60123	02 49 14.73	+20 42 14.9	14.9	T	T05
C/2015 ER_{61}	2017 07 10.60439	02 49 15.13	+20 42 16.5	14.8	T	T05
C/2015 ER_{61}	2017 07 10.61307	02 49 16.24	+20 42 20.6	14.9	T	T05
C/2015 ER_{61}	2017 07 10.62193	02 49 17.37	+20 42 24.6	15.0	T	T05
C/2015 ER_{61}	2017 07 11.40428	02 50 57.74	+20 48 27.3	14.8	N	G39
C/2015 ER_{61}	2017 07 11.40733	02 50 58.04	+20 48 29.5	14.6	N	G39
C/2015 ER_{61}	2017 07 11.41315	02 50 58.76	+20 48 32.4	14.6	N	G39
C/2015 ER_{61}	2017 07 11.41537	02 50 59.09	+20 48 33.3	14.6	N	G39
C/2015 ER_{61}	2017 07 12.40427	02 53 04.20	+20 55 55.2	14.8	N	G39
C/2015 ER_{61}	2017 07 12.40809	02 53 04.66	+20 55 57.5	14.7	N	G39
C/2015 ER_{61}	2017 07 12.41263	02 53 05.26	+20 55 59.0	14.7	N	G39
C/2015 ER_{61}	2017 07 12.41559	02 53 05.65	+20 56 00.6	14.6	N	G39
C/2015 ER_{61}	2017 07 13.14604	02 54 37.01	+21 01 13.9	14.1	N	J22
C/2015 ER_{61}	2017 07 13.14736	02 54 37.20	+21 01 14.3	14.1	N	J22
C/2015 ER_{61}	2017 07 13.14803	02 54 37.30	+21 01 15.2	14.1	N	J22
C/2015 ER_{61}	2017 07 13.36767	02 55 04.37	+21 02 54.0	14.5	N	W96
C/2015 ER_{61}	2017 07 13.40174	02 55 08.53	+21 03 09.1	14.5	N	W96
C/2015 ER_{61}	2017 07 13.40426	02 55 08.92	+21 03 10.1	14.7	N	G39
C/2015 ER_{61}	2017 07 13.40814	02 55 09.42	+21 03 11.8	14.6	N	G39
C/2015 ER_{61}	2017 07 13.41264	02 55 09.92	+21 03 14.2	14.7	N	G39
C/2015 ER_{61}	2017 07 13.41560	02 55 10.37	+21 03 14.5	14.7	N	G39
C/2015 ER_{61}	2017 07 14.40426	02 57 11.68	+21 10 10.9	14.9	N	G39
C/2015 ER_{61}	2017 07 14.41028	02 57 12.40	+21 10 13.6	14.6	N	G39
C/2015 ER_{61}	2017 07 14.41539	02 57 13.05	+21 10 15.0	14.7	N	G39
C/2015 ER_{61}	2017 07 15.09830	02 58 35.87	+21 14 48.6	15.3	N	K 160
C/2015 ER_{61}	2017 07 15.10110	02 58 36.21	+21 14 49.8	15.4	N	K 160
C/2015 ER_{61}	2017 07 15.10388	02 58 36.51	+21 14 50.9	15.4	N	K 160
C/2015 ER_{61}	2017 07 15.40355	02 59 12.52	+21 16 58.2	14.9	N	G39
C/2015 ER_{61}	2017 07 15.40588	02 59 12.76	+21 16 59.3	14.8	N	G39
C/2015 ER_{61}	2017 07 15.41171	02 59 13.50	+21 17 01.9	14.7	N	G39
C/2015 ER_{61}	2017 07 15.41468	02 59 13.91	+21 17 02.8	14.8	N	G39
C/2015 ER_{61}	2017 07 17.10775	03 02 34.22	+21 27 58.0	15.7	N	K 160
C/2015 ER_{61}	2017 07 17.11055	03 02 34.58	+21 27 59.8	15.7	N	K 160
C/2015 ER_{61}	2017 07 17.11335	03 02 34.90	+21 28 00.9	15.8	N	K 160
C/2015 ER_{61}	2017 07 18.10287	03 04 29.46	+21 34 11.7	15.3	N	K 160
C/2015 ER_{61}	2017 07 18.10658	03 04 29.95	+21 34 12.4	15.1	N	K 160
C/2015 ER_{61}	2017 07 18.11025	03 04 30.31	+21 34 14.6	15.5	N	K 160
C/2015 ER_{61}	2017 07 19.11050	03 06 24.24	+21 40 16.2	15.6	N	K 160
C/2015 ER_{61}	2017 07 19.11301	03 06 24.52	+21 40 17.1	15.5	N	K 160
C/2015 ER_{61}	2017 07 19.11581	03 06 24.83	+21 40 18.1	15.6	N	K 160
C/2015 ER_{61}	2017 07 19.77588	03 07 38.90	+21 44 12.0			K 367
C/2015 ER_{61}	2017 07 19.77709	03 07 39.04	+21 44 12.5			K 367
C/2015 ER_{61}	2017 07 19.77872	03 07 39.22	+21 44 13.1	11.3	T	K 367
C/2015 ER_{61}	2017 07 20.15635	03 08 21.39	+21 46 24.5	14.1	N	J22
C/2015 ER_{61}	2017 07 20.15814	03 08 21.57	+21 46 25.1	14.1	N	J22
C/2015 ER_{61}	2017 07 20.42608	03 08 51.09	+21 47 56.5	14.7	N	H47
C/2015 ER_{61}	2017 07 20.42982	03 08 51.51	+21 47 57.7	14.9	N	H47
C/2015 ER_{61}	2017 07 20.43446	03 08 52.02	+21 47 59.5	14.7	N	H47
C/2015 ER_{61}	2017 07 20.71606	03 09 23.11	+21 49 34.2			D81
C/2015 ER_{61}	2017 07 20.71683	03 09 23.19	+21 49 35.1			D81
C/2015 ER_{61}	2017 07 20.71759	03 09 23.26	+21 49 34.7			D81
C/2015 ER_{61}	2017 07 20.71836	03 09 23.27	+21 49 34.9	12.6	T	D81
C/2015 ER_{61}	2017 07 23.40382	03 14 11.30	+22 04 01.6	14.6	N	H47
C/2015 ER_{61}	2017 07 23.40799	03 14 11.63	+22 04 02.2	14.3	N	H47
C/2015 ER_{61}	2017 07 23.41121	03 14 12.07	+22 04 03.9	14.8	N	H47
C/2015 ER_{61}	2017 07 24.17137	03 15 31.08	+22 07 52.9	14.1	N	J22
C/2015 ER_{61}	2017 07 24.17316	03 15 31.18	+22 07 54.5	14.1	N	J22
C/2015 ER_{61}	2017 07 24.17403	03 15 31.32	+22 07 56.4	14.1	N	J22
C/2015 ER_{61}	2017 07 25.34197	03 17 30.50	+22 13 41.5	14.7	N	W96
C/2015 ER_{61}	2017 07 25.37694	03 17 33.93	+22 13 52.1	14.7	N	W96
C/2015 ER_{61}	2017 07 26.22270	03 18 58.58	+22 17 45.1	15.0	N	9 G40
C/2015 ER_{61}	2017 07 26.22551	03 18 58.87	+22 17 45.9	14.9	N	9 G40
C/2015 ER_{61}	2017 07 26.70802	03 19 46.51	+22 19 57.1	12.4	T	D95
C/2015 ER_{61}	2017 07 26.71022	03 19 46.72	+22 19 57.7			D95
C/2015 ER_{61}	2017 07 26.71315	03 19 46.99	+22 19 58.6			D95
C/2015 ER_{61}	2017 07 28.05962	03 21 57.50	+22 25 55.1	15.7	N	K 160
C/2015 ER_{61}	2017 07 28.06110	03 21 57.64	+22 25 55.5	15.6	N	K 160
C/2015 ER_{61}	2017 07 28.06249	03 21 57.78	+22 25 55.0	15.5	N	K 160
C/2015 ER_{61}	2017 07 28.36945	03 22 26.99	+22 27 20.2	14.8	N	W96
C/2015 ER_{61}	2017 07 28.38447	03 22 28.40	+22 27 24.1	12.6	T	W96

C/2015 ER_{61}	2017 07 28.40116	03 22 29.96	+22 27 28.7	14.8	N	W96
C/2015 ER_{61}	2017 07 29.05394	03 23 31.40	+22 30 06.9	14.9	N	K A71
C/2015 ER_{61}	2017 07 29.06276	03 23 32.24	+22 30 08.8	15.0	N	K A71
C/2015 ER_{61}	2017 07 29.18074	03 23 43.44	+22 30 39.1	15.0	N	9 G40
C/2015 ER_{61}	2017 07 29.18262	03 23 43.61	+22 30 39.7	14.9	N	9 G40
C/2015 ER_{61}	2017 07 29.18544	03 23 43.84	+22 30 40.2	15.0	N	9 G40
C/2015 ER_{61}	2017 07 30.12637	03 25 10.90	+22 34 26.9	14.6	N	J22
C/2015 ER_{61}	2017 07 30.12822	03 25 11.11	+22 34 27.4	14.6	N	J22
C/2015 ER_{61}	2017 07 30.12913	03 25 11.20	+22 34 28.5	14.6	N	J22
C/2015 ER_{61}	2017 07 30.77961	03 26 10.14	+22 37 00.9			349
C/2015 ER_{61}	2017 07 30.79221	03 26 11.30	+22 37 04.3	11.9	T	349
C/2015 ER_{61}	2017 07 31.07529	03 26 36.81	+22 38 06.4	15.8	N	K02
C/2015 ER_{61}	2017 07 31.08124	03 26 37.33	+22 38 08.0	15.8	N	K02
C/2015 ER_{61}	2017 07 31.08801	03 26 37.95	+22 38 09.5	15.6	N	K02
C/2015 ER_{61}	2017 08 01.04298	03 28 02.60	+22 41 42.6	15.0	N	I81
C/2015 ER_{61}	2017 08 01.04725	03 28 02.97	+22 41 43.8	14.9	N	I81
C/2015 ER_{61}	2017 08 01.04917	03 28 03.11	+22 41 44.1	14.6	N	I81
C/2015 ER_{61}	2017 08 01.06981	03 28 05.02	+22 41 49.4	15.5	N	K 215
C/2015 ER_{61}	2017 08 01.07109	03 28 05.13	+22 41 49.7	15.5	N	K 215
C/2015 ER_{61}	2017 08 01.07238	03 28 05.23	+22 41 49.9	15.5	N	K 215
C/2015 ER_{61}	2017 08 01.07490	03 28 05.36	+22 41 50.3	14.6	N	970
C/2015 ER_{61}	2017 08 01.08553	03 28 06.29	+22 41 52.9	14.6	N	970
C/2015 ER_{61}	2017 08 01.42779	03 28 36.22	+22 43 08.8	15.0	N	H47
C/2015 ER_{61}	2017 08 01.43152	03 28 36.54	+22 43 09.7	15.1	N	H47
C/2015 ER_{61}	2017 08 01.43509	03 28 36.86	+22 43 10.5	15.0	N	H47
C/2015 ER_{61}	2017 08 01.43869	03 28 37.10	+22 43 11.2	14.9	N	H47
C/2015 ER_{61}	2017 08 01.76591	03 29 05.56	+22 44 20.7			K 367
C/2015 ER_{61}	2017 08 01.76753	03 29 05.70	+22 44 21.0			K 367
C/2015 ER_{61}	2017 08 01.76875	03 29 05.80	+22 44 21.2	11.6	T	K 367
C/2015 ER_{61}	2017 08 02.09378	03 29 33.75	+22 45 29.3	14.7	N	B54
C/2015 ER_{61}	2017 08 02.09491	03 29 33.83	+22 45 30.1	14.7	N	B54
C/2015 ER_{61}	2017 08 02.09603	03 29 33.94	+22 45 30.0	14.8	N	B54
C/2015 ER_{61}	2017 08 03.09519	03 30 58.59	+22 48 53.2	15.6	N	K 160
C/2015 ER_{61}	2017 08 03.09860	03 30 58.88	+22 48 53.9	15.6	N	K 160
C/2015 ER_{61}	2017 08 03.10200	03 30 59.15	+22 48 54.8	15.6	N	K 160
C/2015 ER_{61}	2017 08 04.11005	03 32 22.60	+22 52 12.0	14.7	N	J22
C/2015 ER_{61}	2017 08 04.11378	03 32 22.94	+22 52 12.8	14.7	N	J22
C/2015 ER_{61}	2017 08 04.11502	03 32 23.01	+22 52 14.2	14.7	N	J22
C/2015 ER_{61}	2017 08 04.43600	03 32 48.96	+22 53 14.4	15.0	N	H47
C/2015 ER_{61}	2017 08 04.43961	03 32 49.26	+22 53 15.0	15.1	N	H47
C/2015 ER_{61}	2017 08 04.44443	03 32 49.64	+22 53 16.1	15.2	N	H47
C/2015 ER_{61}	2017 08 06.00346	03 34 53.65	+22 57 54.9	15.1	N	B96
C/2015 ER_{61}	2017 08 06.00509	03 34 53.76	+22 57 55.3	15.1	N	B96
C/2015 ER_{61}	2017 08 06.00672	03 34 53.86	+22 57 55.5	14.9	N	B96
C/2015 ER_{61}	2017 08 06.04792	03 34 57.06	+22 58 01.7	15.3	N	I81
C/2015 ER_{61}	2017 08 06.05445	03 34 57.51	+22 58 03.9	14.7	N	I81
C/2015 ER_{61}	2017 08 06.05953	03 34 57.95	+22 58 05.4	15.3	N	I81
C/2015 ER_{61}	2017 08 07.10984	03 36 18.62	+23 01 02.6	15.1	N	C23
C/2015 ER_{61}	2017 08 07.11583	03 36 19.08	+23 01 03.8	14.9	N	C23
C/2015 ER_{61}	2017 08 07.12108	03 36 19.43	+23 01 04.6	14.8	N	C23
C/2015 ER_{61}	2017 08 10.22616	03 40 04.84	+23 08 55.2	15.1	N	9 G40
C/2015 ER_{61}	2017 08 10.23093	03 40 05.12	+23 08 56.2	15.1	N	9 G40
C/2015 ER_{61}	2017 08 10.23436	03 40 05.33	+23 08 56.8	15.0	N	9 G40
C/2015 ER_{61}	2017 08 11.07306	03 41 02.94	+23 10 47.0	15.1	N	K02
C/2015 ER_{61}	2017 08 11.07771	03 41 03.26	+23 10 47.7	15.5	N	K02
C/2015 ER_{61}	2017 08 15.02216	03 45 14.40	+23 18 24.1	14.1	N	C36
C/2015 ER_{61}	2017 08 15.02292	03 45 14.44	+23 18 24.5	14.1	N	C36
C/2015 ER_{61}	2017 08 15.02367	03 45 14.49	+23 18 24.4	14.1	N	C36
C/2015 ER_{61}	2017 08 15.02443	03 45 14.54	+23 18 24.2	14.1	N	C36
C/2015 ER_{61}	2017 08 15.02519	03 45 14.58	+23 18 24.6	14.0	N	C36
C/2015 ER_{61}	2017 08 15.02669	03 45 14.68	+23 18 24.5	14.2	N	C36
C/2015 ER_{61}	2017 08 15.02745	03 45 14.72	+23 18 24.4	14.2	N	C36
C/2015 ER_{61}	2017 08 15.02821	03 45 14.75	+23 18 24.7	14.2	N	C36
C/2015 ER_{61}	2017 08 15.02896	03 45 14.77	+23 18 24.8	14.2	N	C36
C/2015 ER_{61}	2017 08 16.05376	03 46 14.80	+23 20 03.0	15.0	N	C23
C/2015 ER_{61}	2017 08 16.05900	03 46 15.15	+23 20 03.7	15.0	N	C23
C/2015 ER_{61}	2017 08 16.06500	03 46 15.46	+23 20 04.1	14.9	N	C23
C/2015 ER_{61}	2017 08 16.09516	03 46 17.20	+23 20 07.6	16.1	N	K 160
C/2015 ER_{61}	2017 08 16.09798	03 46 17.36	+23 20 07.9	16.1	N	K 160
C/2015 ER_{61}	2017 08 16.10079	03 46 17.51	+23 20 08.4	16.0	N	K 160
C/2015 ER_{61}	2017 08 17.04389	03 47 10.66	+23 21 32.8	15.8	N	K A71
C/2015 ER_{61}	2017 08 17.05252	03 47 11.08	+23 21 33.8	15.6	N	K A71
C/2015 ER_{61}	2017 08 17.05996	03 47 11.48	+23 21 34.5	15.7	N	K A71
C/2015 ER_{61}	2017 08 17.07306	03 47 12.34	+23 21 33.8	15.8	N	K 160
C/2015 ER_{61}	2017 08 17.07580	03 47 12.49	+23 21 34.0	15.8	N	K 160
C/2015 ER_{61}	2017 08 17.07853	03 47 12.60	+23 21 34.1	16.3	N	K 160
C/2015 ER_{61}	2017 08 17.10436	03 47 14.01	+23 21 36.8	14.9	N	J22
C/2015 ER_{61}	2017 08 17.10678	03 47 14.20	+23 21 37.0	14.9	N	J22
C/2015 ER_{61}	2017 08 17.10919	03 47 14.30	+23 21 37.4	14.9	N	J22
C/2015 ER_{61}	2017 08 17.34009	03 47 26.91	+23 22 02.8	15.3	N	W96
C/2015 ER_{61}	2017 08 17.38401	03 47 29.26	+23 22 06.3	15.4	N	W96
C/2015 ER_{61}	2017 08 18.10642	03 48 08.34	+23 22 57.3	16.2	N	K 160
C/2015 ER_{61}	2017 08 18.10917	03 48 08.48	+23 22 57.5	16.1	N	K 160
C/2015 ER_{61}	2017 08 18.11192	03 48 08.60	+23 22 57.6	16.1	N	K 160
C/2015 ER_{61}	2017 08 19.07795	03 48 59.05	+23 24 07.9	15.1	N	J01
C/2015 ER_{61}	2017 08 19.08005	03 48 59.20	+23 24 09.8	14.9	N	J22
C/2015 ER_{61}	2017 08 19.08164	03 48 59.21	+23 24 08.0	15.1	N	J01
C/2015 ER_{61}	2017 08 19.08252	03 48 59.27	+23 24 09.4	14.9	N	J22
C/2015 ER_{61}	2017 08 19.08501	03 48 59.46	+23 24 09.3	14.9	N	J22
C/2015 ER_{61}	2017 08 19.08903	03 48 59.62	+23 24 08.7	15.1	N	J01
C/2015 ER_{61}	2017 08 19.08967	03 48 59.51	+23 24 08.8	15.0	N	C23
C/2015 ER_{61}	2017 08 19.09566	03 48 59.86	+23 24 09.2	15.1	N	C23
C/2015 ER_{61}	2017 08 19.10090	03 49 00.12	+23 24 09.3	15.3	N	C23
C/2015 ER_{61}	2017 08 19.11657	03 49 00.92	+23 24 11.0	16.1	N	K 160
C/2015 ER_{61}	2017 08 19.11796	03 49 00.99	+23 24 11.1	16.2	N	K 160
C/2015 ER_{61}	2017 08 19.11922	03 49 01.02	+23 24 11.6	15.8	N	K 160
C/2015 ER_{61}	2017 08 19.18069	03 49 04.17	+23 24 16.4	15.5	N	23 I89
C/2015 ER_{61}	2017 08 19.18850	03 49 04.54	+23 24 17.2	15.6	N	23 I89
C/2015 ER_{61}	2017 08 19.75792	03 49 33.18	+23 24 54.9	12.9	T	349
C/2015 ER_{61}	2017 08 19.76311	03 49 33.41	+23 24 55.5			349
C/2015 ER_{61}	2017 08 20.06802	03 49 48.45	+23 25 13.2	16.1	N	K97
C/2015 ER_{61}	2017 08 20.08699	03 49 49.37	+23 25 14.4	15.9	N	K97
C/2015 ER_{61}	2017 08 20.09867	03 49 49.93	+23 25 15.1	16.0	N	K97
C/2015 ER_{61}	2017 08 20.99091	03 50 32.74	+23 26 07.9	14.4	N	107
C/2015 ER_{61}	2017 08 21.00383	03 50 33.41	+23 26 08.0	15.1	N	107
C/2015 ER_{61}	2017 08 21.01818	03 50 34.09	+23 26 08.9	16.0	N	107

C/2015 ER_{61}	2017 08 21.14743	03 50 40.06	+23 26 16.9	15.9	N	K 160
C/2015 ER_{61}	2017 08 21.15027	03 50 40.19	+23 26 17.0	16.0	N	K 160
C/2015 ER_{61}	2017 08 21.15311	03 50 40.30	+23 26 16.7	16.2	N	K 160
C/2015 ER_{61}	2017 08 21.40074	03 50 51.81	+23 26 31.5	15.3	N	H47
C/2015 ER_{61}	2017 08 21.40744	03 50 52.11	+23 26 31.8	15.0	N	H47
C/2015 ER_{61}	2017 08 21.41300	03 50 52.32	+23 26 32.2	15.2	N	H47
C/2015 ER_{61}	2017 08 22.17650	03 51 26.98	+23 27 10.2	14.7	N	2 G40
C/2015 ER_{61}	2017 08 22.17745	03 51 26.98	+23 27 10.4	14.7	N	2 G40
C/2015 ER_{61}	2017 08 22.17830	03 51 27.08	+23 27 10.5	14.8	N	2 G40
C/2015 ER_{61}	2017 08 22.35926	03 51 34.99	+23 27 23.6	15.3	N	W96
C/2015 ER_{61}	2017 08 22.38359	03 51 35.98	+23 27 24.7	15.4	N	W96
C/2015 ER_{61}	2017 08 22.41031	03 51 37.26	+23 27 20.8	15.4	N	K H47
C/2015 ER_{61}	2017 08 22.42328	03 51 37.81	+23 27 21.5	15.3	N	K H47
C/2015 ER_{61}	2017 08 22.43168	03 51 38.17	+23 27 22.0	15.5	N	K H47
C/2015 ER_{61}	2017 08 23.01096	03 52 03.40	+23 27 44.3	16.8	N	C47
C/2015 ER_{61}	2017 08 23.01797	03 52 03.64	+23 27 44.7	16.9	N	C47
C/2015 ER_{61}	2017 08 23.02055	03 52 03.80	+23 27 45.0	16.4	N	C47
C/2015 ER_{61}	2017 08 23.07579	03 52 06.13	+23 27 47.5	16.1	N	K97
C/2015 ER_{61}	2017 08 23.08023	03 52 06.30	+23 27 47.7	16.1	N	K97
C/2015 ER_{61}	2017 08 23.09637	03 52 06.98	+23 27 48.5	16.1	N	K97
C/2015 ER_{61}	2017 08 23.10985	03 52 07.53	+23 27 49.4	16.2	N	K 160
C/2015 ER_{61}	2017 08 23.11115	03 52 07.59	+23 27 49.1	16.1	N	K97
C/2015 ER_{61}	2017 08 23.11220	03 52 07.63	+23 27 49.5	16.1	N	K 160
C/2015 ER_{61}	2017 08 23.11498	03 52 07.75	+23 27 49.5	16.2	N	K 160
C/2015 ER_{61}	2017 08 23.11705	03 52 07.83	+23 27 49.4	16.1	N	K97
C/2015 ER_{61}	2017 08 23.41883	03 52 20.44	+23 28 03.1	15.3	N	K H47
C/2015 ER_{61}	2017 08 23.43170	03 52 20.97	+23 28 03.6	15.3	N	K H47
C/2015 ER_{61}	2017 08 23.44229	03 52 21.38	+23 28 03.9	15.4	N	K H47
C/2015 ER_{61}	2017 08 24.02953	03 52 45.66	+23 28 21.9	15.5	N	K Z80
C/2015 ER_{61}	2017 08 24.03101	03 52 45.67	+23 28 21.8	15.3	N	K Z80
C/2015 ER_{61}	2017 08 24.03249	03 52 45.73	+23 28 22.2	15.5	N	K Z80
C/2015 ER_{61}	2017 08 24.03396	03 52 45.84	+23 28 21.5	15.6	N	K Z80
C/2015 ER_{61}	2017 08 24.03543	03 52 45.84	+23 28 22.3	15.3	N	K Z80
C/2015 ER_{61}	2017 08 24.03690	03 52 45.95	+23 28 22.4	15.4	N	K Z80
C/2015 ER_{61}	2017 08 24.03837	03 52 46.00	+23 28 22.8	15.5	N	K Z80
C/2015 ER_{61}	2017 08 24.03985	03 52 46.01	+23 28 23.2	15.4	N	K Z80
C/2015 ER_{61}	2017 08 24.04132	03 52 46.07	+23 28 22.7	15.5	N	K Z80
C/2015 ER_{61}	2017 08 24.04279	03 52 46.15	+23 28 22.1	15.7	N	K Z80
C/2015 ER_{61}	2017 08 24.13610	03 52 49.93	+23 28 27.1	15.1	N	J01
C/2015 ER_{61}	2017 08 24.13988	03 52 50.06	+23 28 27.1	15.1	N	J01
C/2015 ER_{61}	2017 08 24.14252	03 52 50.12	+23 28 27.3	16.3	N	K 160
C/2015 ER_{61}	2017 08 24.14366	03 52 50.24	+23 28 27.2	15.2	N	J01
C/2015 ER_{61}	2017 08 24.14523	03 52 50.22	+23 28 27.3	16.4	N	K 160
C/2015 ER_{61}	2017 08 24.14796	03 52 50.33	+23 28 27.2	16.3	N	K 160
C/2015 ER_{61}	2017 08 25.06146	03 53 26.24	+23 28 54.3	15.1	N	B54
C/2015 ER_{61}	2017 08 25.06190	03 53 26.27	+23 28 54.3	15.2	N	B54
C/2015 ER_{61}	2017 08 25.06262	03 53 26.32	+23 28 53.9	15.1	N	B54
C/2015 ER_{61}	2017 08 25.13854	03 53 29.14	+23 28 56.2	15.2	N	J01
C/2015 ER_{61}	2017 08 25.16071	03 53 29.96	+23 28 57.0	15.2	N	J01
C/2015 ER_{61}	2017 08 25.17919	03 53 30.62	+23 28 57.7	15.2	N	J01
C/2015 ER_{61}	2017 08 26.02566	03 54 02.03	+23 29 15.4	15.2	N	K 970
C/2015 ER_{61}	2017 08 26.05135	03 54 02.92	+23 29 16.1	15.2	N	970
C/2015 ER_{61}	2017 08 26.69371	03 54 25.64	+23 29 28.3	13.2	T	D95
C/2015 ER_{61}	2017 08 26.69885	03 54 25.82	+23 29 28.6			D95
C/2015 ER_{61}	2017 08 26.70473	03 54 26.01	+23 29 28.7			D95
C/2015 ER_{61}	2017 08 26.79844	03 54 29.14	+23 29 30.3			K 367
C/2015 ER_{61}	2017 08 26.80046	03 54 29.21	+23 29 30.3			K 367
C/2015 ER_{61}	2017 08 26.80168	03 54 29.25	+23 29 30.3	12.7	T	K 367
C/2015 ER_{61}	2017 08 26.97164	03 54 35.21	+23 29 30.7	15.9	N	A29
C/2015 ER_{61}	2017 08 26.97719	03 54 35.45	+23 29 30.5	15.9	N	A29
C/2015 ER_{61}	2017 08 26.98347	03 54 35.68	+23 29 31.1	15.7	N	A29
C/2015 ER_{61}	2017 08 26.98918	03 54 35.89	+23 29 32.0	15.6	N	A29
C/2015 ER_{61}	2017 08 28.79659	03 55 33.50	+23 29 45.6	13.2	T	349
C/2015 ER_{61}	2017 08 28.80723	03 55 33.79	+23 29 45.7			349
C/2015 ER_{61}	2017 08 29.01787	03 55 40.18	+23 29 42.5	14.8	N	I81
C/2015 ER_{61}	2017 08 29.02951	03 55 40.53	+23 29 42.6	15.1	N	I81
C/2015 ER_{61}	2017 08 29.03945	03 55 40.82	+23 29 42.5	14.9	N	I81
C/2015 ER_{61}	2017 08 29.04144	03 55 40.94	+23 29 43.1	15.3	N	C23
C/2015 ER_{61}	2017 08 29.04721	03 55 41.07	+23 29 42.8	15.7	N	C23
C/2015 ER_{61}	2017 08 29.05442	03 55 41.32	+23 29 42.9	15.4	N	C23
C/2015 ER_{61}	2017 08 29.05807	03 55 41.46	+23 29 44.4	15.2	N	J22
C/2015 ER_{61}	2017 08 29.05929	03 55 41.55	+23 29 45.2	15.2	N	J22
C/2015 ER_{61}	2017 08 29.06177	03 55 41.56	+23 29 45.3	15.2	N	J22
C/2015 ER_{61}	2017 08 29.08008	03 55 42.00	+23 29 43.2	15.7	N	K97
C/2015 ER_{61}	2017 08 29.08155	03 55 42.05	+23 29 43.4	16.0	N	K97
C/2015 ER_{61}	2017 08 29.08745	03 55 42.22	+23 29 43.4	15.7	N	K97
C/2015 ER_{61}	2017 08 29.09188	03 55 42.35	+23 29 43.5	15.9	N	K97
C/2015 ER_{61}	2017 08 29.22155	03 55 46.13	+23 29 44.8	15.3	N	9 G40
C/2015 ER_{61}	2017 08 29.22486	03 55 46.25	+23 29 45.0	15.3	N	9 G40
C/2015 ER_{61}	2017 08 29.23061	03 55 46.40	+23 29 44.6	15.3	N	9 G40
C/2015 ER_{61}	2017 08 30.06517	03 56 09.93	+23 29 37.6	15.0	N	I81
C/2015 ER_{61}	2017 08 30.06801	03 56 10.00	+23 29 37.5	15.0	N	I81
C/2015 ER_{61}	2017 08 30.07227	03 56 10.12	+23 29 37.5	15.2	N	I81
C/2015 ER_{61}	2017 08 30.09354	03 56 10.73	+23 29 38.4	15.3	N	K A77
C/2015 ER_{61}	2017 08 30.09840	03 56 10.90	+23 29 38.1	15.2	N	K A77
C/2015 ER_{61}	2017 08 30.10326	03 56 11.06	+23 29 38.5	15.1	N	c A77
C/2015 ER_{61}	2017 08 31.01605	03 56 34.90	+23 29 26.5	15.6	N	K Z80
C/2015 ER_{61}	2017 08 31.01848	03 56 34.96	+23 29 26.1	15.8	N	K Z80
C/2015 ER_{61}	2017 08 31.02090	03 56 34.93	+23 29 26.6	15.6	N	K Z80
C/2015 ER_{61}	2017 08 31.02332	03 56 35.06	+23 29 26.2	15.5	N	K Z80
C/2015 ER_{61}	2017 08 31.02575	03 56 35.15	+23 29 26.2	15.7	N	K Z80
C/2015 ER_{61}	2017 08 31.02817	03 56 35.20	+23 29 27.1	15.8	N	K Z80
C/2015 ER_{61}	2017 08 31.75458	03 56 52.83	+23 29 15.5			372
C/2015 ER_{61}	2017 08 31.75771	03 56 52.93	+23 29 15.4	13.8	T	372
C/2015 ER_{61}	2017 09 01.02424	03 56 59.12	+23 29 07.8	15.1	N	I81
C/2015 ER_{61}	2017 09 01.03117	03 56 59.29	+23 29 07.6	15.2	N	I81
C/2015 ER_{61}	2017 09 01.03825	03 56 59.44	+23 29 07.6	15.2	N	I81
C/2015 ER_{61}	2017 09 01.09917	03 57 00.83	+23 29 06.7	15.3	N	C23
C/2015 ER_{61}	2017 09 01.10591	03 57 00.97	+23 29 06.7	15.4	N	C23
C/2015 ER_{61}	2017 09 01.11339	03 57 01.12	+23 29 06.6	15.3	N	C23
C/2015 ER_{61}	2017 09 02.72676	03 57 34.96	+23 28 22.8	13.3	T	D95
C/2015 ER_{61}	2017 09 02.73333	03 57 35.07	+23 28 22.6			D95
C/2015 ER_{61}	2017 09 02.73553	03 57 35.11	+23 28 22.5			D95
C/2015 ER_{61}	2017 09 02.73885	03 57 35.13	+23 28 22.9	15.1	N	K Q21
C/2015 ER_{61}	2017 09 02.74412	03 57 35.20	+23 28 22.9	15.0	N	K Q21
C/2015 ER_{61}	2017 09 02.75468	03 57 35.36	+23 28 22.6	15.1	N	K Q21

C/2015 ER_{61}	2017 09 03.06271	03 57 41.18	+23 28 11.2	15.2	N	K A58
C/2015 ER_{61}	2017 09 03.07588	03 57 41.43	+23 28 10.1	15.6	N	K A58
C/2015 ER_{61}	2017 09 03.07673	03 57 41.56	+23 28 08.6	15.6	N	I81
C/2015 ER_{61}	2017 09 03.08444	03 57 41.62	+23 28 09.1	15.4	N	I81
C/2015 ER_{61}	2017 09 03.08779	03 57 41.77	+23 28 08.6	15.6	N	K02
C/2015 ER_{61}	2017 09 03.08994	03 57 41.78	+23 28 08.2	15.6	N	I81
C/2015 ER_{61}	2017 09 03.08995	03 57 41.80	+23 28 09.0	15.2	N	K A58
C/2015 ER_{61}	2017 09 03.09398	03 57 41.89	+23 28 08.4	15.9	N	K02
C/2015 ER_{61}	2017 09 03.10021	03 57 42.00	+23 28 08.3	15.7	N	K02
C/2015 ER_{61}	2017 09 03.75104	03 57 53.47	+23 27 45.6	14.7	T	372
C/2015 ER_{61}	2017 09 03.75920	03 57 53.60	+23 27 45.3			372
C/2015 ER_{61}	2017 09 03.76785	03 57 53.67	+23 27 44.6			D81
C/2015 ER_{61}	2017 09 03.76861	03 57 53.69	+23 27 45.0			D81
C/2015 ER_{61}	2017 09 03.76938	03 57 53.71	+23 27 44.3			D81
C/2015 ER_{61}	2017 09 03.77014	03 57 53.70	+23 27 44.4	13.8	T	D81
C/2015 ER_{61}	2017 09 04.39218	03 58 03.85	+23 27 18.2	15.5	N	H47
C/2015 ER_{61}	2017 09 04.40419	03 58 04.01	+23 27 17.8	15.9	N	H47
C/2015 ER_{61}	2017 09 04.41279	03 58 04.13	+23 27 17.3	15.5	N	H47
C/2015 ER_{61}	2017 09 04.42033	03 58 04.21	+23 27 17.1	15.7	N	H47
C/2015 ER_{61}	2017 09 05.11521	03 58 14.54	+23 26 43.5	15.3	N	K A77
C/2015 ER_{61}	2017 09 05.12425	03 58 14.60	+23 26 43.1	15.2	N	K A77
C/2015 ER_{61}	2017 09 05.13325	03 58 14.72	+23 26 42.2	15.3	N	K A77
C/2015 ER_{61}	2017 09 05.39958	03 58 18.36	+23 26 30.1	15.8	N	H47
C/2015 ER_{61}	2017 09 05.40799	03 58 18.44	+23 26 29.8	15.6	N	H47
C/2015 ER_{61}	2017 09 05.41586	03 58 18.53	+23 26 29.3	15.6	N	H47
C/2015 ER_{61}	2017 09 05.42638	03 58 18.64	+23 26 28.9	15.5	N	H47
C/2015 ER_{61}	2017 09 08.02648	03 58 45.65	+23 23 50.7	15.2	N	585
C/2015 ER_{61}	2017 09 08.02701	03 58 45.63	+23 23 50.5	15.2	N	585
C/2015 ER_{61}	2017 09 08.02787	03 58 45.68	+23 23 50.5	15.1	N	585
C/2015 ER_{61}	2017 09 08.02923	03 58 45.63	+23 23 51.2	15.2	N	585
C/2015 ER_{61}	2017 09 08.02994	03 58 45.66	+23 23 50.6	15.2	N	585
C/2015 ER_{61}	2017 09 08.03065	03 58 45.69	+23 23 50.6	15.3	N	585
C/2015 ER_{61}	2017 09 08.03136	03 58 45.65	+23 23 50.6	15.2	N	585
C/2015 ER_{61}	2017 09 08.03206	03 58 45.67	+23 23 50.8	15.2	N	585
C/2015 ER_{61}	2017 09 08.03277	03 58 45.69	+23 23 50.4	15.3	N	585
C/2015 ER_{61}	2017 09 08.03348	03 58 45.69	+23 23 50.5	15.3	N	585
C/2015 ER_{61}	2017 09 08.03419	03 58 45.69	+23 23 50.4	15.3	N	585
C/2015 ER_{61}	2017 09 08.03490	03 58 45.69	+23 23 50.3	15.3	N	585
C/2015 ER_{61}	2017 09 08.03561	03 58 45.69	+23 23 50.4	15.3	N	585
C/2015 ER_{61}	2017 09 08.35938	03 58 48.01	+23 23 28.6	15.4	N	K 850
C/2015 ER_{61}	2017 09 08.37829	03 58 48.07	+23 23 27.4	15.3	N	K 850
C/2015 ER_{61}	2017 09 08.40674	03 58 48.20	+23 23 25.4	15.4	N	K 850
C/2015 ER_{61}	2017 09 10.03543	03 58 56.27	+23 21 18.6	15.3	N	C23
C/2015 ER_{61}	2017 09 10.04358	03 58 56.28	+23 21 17.8	15.5	N	C23
C/2015 ER_{61}	2017 09 10.04935	03 58 56.30	+23 21 17.3	15.4	N	C23
C/2015 ER_{61}	2017 09 14.04874	03 58 50.54	+23 14 54.7	15.7	N	L04
C/2015 ER_{61}	2017 09 14.05763	03 58 50.49	+23 14 53.4	15.8	N	L04
C/2015 ER_{61}	2017 09 14.10625	03 58 50.13	+23 14 48.5	15.8	N	L04
C/2015 ER_{61}	2017 09 14.12404	03 58 49.97	+23 14 46.6	15.6	N	L04
C/2015 ER_{61}	2017 09 14.23084	03 58 49.35	+23 14 36.1	15.5	N	J22
C/2015 ER_{61}	2017 09 14.23346	03 58 49.33	+23 14 35.8	15.5	N	J22
C/2015 ER_{61}	2017 09 14.23597	03 58 49.30	+23 14 35.2	15.5	N	J22
C/2015 ER_{61}	2017 09 15.02140	03 58 43.78	+23 13 05.2	15.1	N	585
C/2015 ER_{61}	2017 09 15.02211	03 58 43.81	+23 13 04.9	15.1	N	585
C/2015 ER_{61}	2017 09 15.02284	03 58 43.77	+23 13 05.2	15.1	N	585
C/2015 ER_{61}	2017 09 15.02356	03 58 43.73	+23 13 05.2	15.1	N	585
C/2015 ER_{61}	2017 09 15.02427	03 58 43.75	+23 13 05.1	15.2	N	585
C/2015 ER_{61}	2017 09 15.02571	03 58 43.74	+23 13 04.9	15.1	N	585
C/2015 ER_{61}	2017 09 15.02642	03 58 43.73	+23 13 04.7	15.1	N	585
C/2015 ER_{61}	2017 09 15.02713	03 58 43.74	+23 13 04.5	15.2	N	585
C/2015 ER_{61}	2017 09 15.02786	03 58 43.75	+23 13 04.2	15.2	N	585
C/2015 ER_{61}	2017 09 15.02930	03 58 43.71	+23 13 04.3	15.2	N	585
C/2015 ER_{61}	2017 09 15.03073	03 58 43.72	+23 13 04.2	15.2	N	585
C/2015 ER_{61}	2017 09 15.03215	03 58 43.69	+23 13 04.0	15.2	N	585
C/2015 ER_{61}	2017 09 15.08852	03 58 43.29	+23 12 57.1	15.5	N	K 970
C/2015 ER_{61}	2017 09 15.09611	03 58 43.21	+23 12 56.2	15.6	N	K 970
C/2015 ER_{61}	2017 09 15.10198	03 58 43.17	+23 12 55.2	15.9	N	K02
C/2015 ER_{61}	2017 09 15.10664	03 58 43.13	+23 12 54.6	15.9	N	K02
C/2015 ER_{61}	2017 09 15.11440	03 58 43.05	+23 12 53.7	16.0	N	K02
C/2015 ER_{61}	2017 09 15.67378	03 58 38.21	+23 11 48.6	13.3	T	D95
C/2015 ER_{61}	2017 09 15.67597	03 58 38.19	+23 11 48.3			D95
C/2015 ER_{61}	2017 09 15.68255	03 58 38.11	+23 11 47.7			D95
C/2015 ER_{61}	2017 09 16.00080	03 58 35.01	+23 11 07.7	15.5	N	C23
C/2015 ER_{61}	2017 09 16.00754	03 58 34.97	+23 11 06.8	15.4	N	C23
C/2015 ER_{61}	2017 09 16.01502	03 58 34.86	+23 11 05.9	15.5	N	C23
C/2015 ER_{61}	2017 09 16.10931	03 58 33.86	+23 10 55.2	15.4	N	J01
C/2015 ER_{61}	2017 09 16.11647	03 58 33.77	+23 10 54.2	15.4	N	J01
C/2015 ER_{61}	2017 09 16.13078	03 58 33.60	+23 10 52.3	15.4	N	J01
C/2015 ER_{61}	2017 09 17.04043	03 58 23.15	+23 08 57.2	15.3	N	585
C/2015 ER_{61}	2017 09 17.04114	03 58 23.15	+23 08 57.1	15.2	N	585
C/2015 ER_{61}	2017 09 17.04184	03 58 23.16	+23 08 56.8	15.3	N	585
C/2015 ER_{61}	2017 09 17.04256	03 58 23.12	+23 08 56.8	15.2	N	585
C/2015 ER_{61}	2017 09 17.04326	03 58 23.11	+23 08 56.7	15.1	N	585
C/2015 ER_{61}	2017 09 17.04397	03 58 23.09	+23 08 56.9	15.1	N	585
C/2015 ER_{61}	2017 09 17.04468	03 58 23.10	+23 08 56.5	15.2	N	585
C/2015 ER_{61}	2017 09 17.04539	03 58 23.08	+23 08 56.6	15.1	N	585
C/2015 ER_{61}	2017 09 17.04610	03 58 23.09	+23 08 56.3	15.1	N	585
C/2015 ER_{61}	2017 09 17.04680	03 58 23.07	+23 08 56.0	15.1	N	585
C/2015 ER_{61}	2017 09 17.04751	03 58 23.06	+23 08 56.4	15.0	N	585
C/2015 ER_{61}	2017 09 17.04822	03 58 23.04	+23 08 56.3	15.1	N	585
C/2015 ER_{61}	2017 09 17.07422	03 58 22.78	+23 08 52.0	15.3	N	I81
C/2015 ER_{61}	2017 09 17.07706	03 58 22.76	+23 08 51.4	15.3	N	I81
C/2015 ER_{61}	2017 09 17.07990	03 58 22.71	+23 08 51.2	15.4	N	I81
C/2015 ER_{61}	2017 09 18.051533	03 58 09.495	+23 06 42.14	16.3	N	5 089
C/2015 ER_{61}	2017 09 18.053076	03 58 09.435	+23 06 42.23	15.9	N	5 089
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C/2015 ER_{61}	2017 09 18.082783	03 58 08.976	+23 06 38.20	16.0	N	5 089
C/2015 ER_{61}	2017 09 18.084327	03 58 08.952	+23 06 37.68	16.0	N	5 089
C/2015 ER_{61}	2017 09 18.085878	03 58 08.939	+23 06 37.79	15.9	N	5 089
C/2015 ER_{61}	2017 09 18.31424	03 58 05.53	+23 06 12.5	15.7	N	W96
C/2015 ER_{61}	2017 09 18.34699	03 58 04.99	+23 06 08.3	15.7	N	W96
C/2015 ER_{61}	2017 09 18.99700	03 57 54.81	+23 04 28.5	15.0	N	I81
C/2015 ER_{61}	2017 09 19.00288	03 57 54.71	+23 04 27.8	15.3	N	I81
C/2015 ER_{61}	2017 09 19.00714	03 57 54.64	+23 04 27.1	15.5	N	I81
C/2015 ER_{61}	2017 09 19.17791	03 57 51.70	+23 04 05.1	15.6	N	9 G40
C/2015 ER_{61}	2017 09 19.18316	03 57 51.60	+23 04 04.4	15.7	N	9 G40

C/2015 ER_{61}	2017 09 19.19066	03 57 51.45	+23 04 03.4	15.6	N	9 G40
C/2015 ER_{61}	2017 09 19.19582	03 57 51.37	+23 04 02.5	15.6	N	9 G40
C/2015 ER_{61}	2017 09 19.22466	03 57 51.18	+23 03 56.8	16.2	N	K 850
C/2015 ER_{61}	2017 09 19.23910	03 57 50.87	+23 03 55.1	16.1	N	K 850
C/2015 ER_{61}	2017 09 19.25330	03 57 50.57	+23 03 53.2	16.5	N	K 850
C/2015 ER_{61}	2017 09 19.26738	03 57 50.32	+23 03 51.4	16.5	N	K 850
C/2015 ER_{61}	2017 09 19.98316	03 57 37.33	+23 02 03.7	15.3	N	I81
C/2015 ER_{61}	2017 09 19.98883	03 57 37.23	+23 02 02.9	15.4	N	I81
C/2015 ER_{61}	2017 09 19.99309	03 57 37.15	+23 02 02.4	15.4	N	I81
C/2015 ER_{61}	2017 09 21.28169	03 57 11.21	+22 58 44.5	15.4	N	KW33
C/2015 ER_{61}	2017 09 21.30702	03 57 10.53	+22 58 41.3	15.0	N	KW33
C/2015 ER_{61}	2017 09 21.33217	03 57 09.94	+22 58 37.5	15.0	N	KW33
C/2015 ER_{61}	2017 09 21.72826	03 57 01.24	+22 57 34.2			D81
C/2015 ER_{61}	2017 09 21.72902	03 57 01.22	+22 57 33.5			D81
C/2015 ER_{61}	2017 09 21.72978	03 57 01.19	+22 57 33.3			D81
C/2015 ER_{61}	2017 09 21.73054	03 57 01.16	+22 57 33.5	13.4	T	D81
C/2015 ER_{61}	2017 09 22.05766	03 56 53.78	+22 56 38.3	15.6	N	C23
C/2015 ER_{61}	2017 09 22.06440	03 56 53.60	+22 56 37.0	15.5	N	C23
C/2015 ER_{61}	2017 09 22.06592	03 56 53.55	+22 56 36.3	15.3	N	I81
C/2015 ER_{61}	2017 09 22.07188	03 56 53.44	+22 56 35.8	15.5	N	C23
C/2015 ER_{61}	2017 09 22.07293	03 56 53.36	+22 56 35.2	15.3	N	I81
C/2015 ER_{61}	2017 09 22.08003	03 56 53.20	+22 56 34.0	15.3	N	I81
C/2015 ER_{61}	2017 09 22.20549	03 56 50.19	+22 56 16.2	15.5	N	J22
C/2015 ER_{61}	2017 09 22.20941	03 56 50.16	+22 56 15.3	15.5	N	J22
C/2015 ER_{61}	2017 09 22.21333	03 56 49.96	+22 56 14.9	15.5	N	J22
C/2015 ER_{61}	2017 09 22.39536	03 56 45.71	+22 55 44.0	15.6	N	H47
C/2015 ER_{61}	2017 09 22.40853	03 56 45.40	+22 55 41.5	16.1	N	H47
C/2015 ER_{61}	2017 09 22.41677	03 56 45.16	+22 55 40.4	15.8	N	H47
C/2015 ER_{61}	2017 09 22.42503	03 56 44.96	+22 55 39.0	15.7	N	H47
C/2015 ER_{61}	2017 09 23.04277	03 56 29.86	+22 53 52.2	14.9	N	C36
C/2015 ER_{61}	2017 09 23.04365	03 56 29.83	+22 53 52.5	14.9	N	C36
C/2015 ER_{61}	2017 09 23.04664	03 56 29.91	+22 53 51.9	15.6	N	J01
C/2015 ER_{61}	2017 09 23.05067	03 56 29.65	+22 53 51.3	14.9	N	C36
C/2015 ER_{61}	2017 09 23.05155	03 56 29.62	+22 53 50.9	14.8	N	C36
C/2015 ER_{61}	2017 09 23.05243	03 56 29.59	+22 53 51.3	14.9	N	C36
C/2015 ER_{61}	2017 09 23.05506	03 56 29.52	+22 53 50.4	15.0	N	C36
C/2015 ER_{61}	2017 09 23.06814	03 56 29.38	+22 53 48.5	15.6	N	J01
C/2015 ER_{61}	2017 09 23.08963	03 56 28.80	+22 53 45.1	15.6	N	J01
C/2015 ER_{61}	2017 09 23.93044	03 56 06.89	+22 51 16.2	16.0	N	B96
C/2015 ER_{61}	2017 09 23.93207	03 56 06.82	+22 51 15.9	15.8	N	B96
C/2015 ER_{61}	2017 09 23.93372	03 56 06.77	+22 51 15.7	16.1	N	B96
C/2015 ER_{61}	2017 09 23.93535	03 56 06.71	+22 51 15.6	16.0	N	B96
C/2015 ER_{61}	2017 09 23.93698	03 56 06.64	+22 51 15.4	15.6	N	B96
C/2015 ER_{61}	2017 09 23.93861	03 56 06.59	+22 51 14.7	15.8	N	B96
C/2015 ER_{61}	2017 09 24.26397	03 55 57.60	+22 50 24.8	15.8	N	W96
C/2015 ER_{61}	2017 09 24.30761	03 55 56.28	+22 50 17.3	15.7	N	W96
C/2015 ER_{61}	2017 09 24.39786	03 55 53.76	+22 49 55.5	15.7	N	H47
C/2015 ER_{61}	2017 09 24.40411	03 55 53.56	+22 49 54.3	15.6	N	H47
C/2015 ER_{61}	2017 09 24.41060	03 55 53.35	+22 49 53.3	15.6	N	H47
C/2015 ER_{61}	2017 09 24.41868	03 55 53.16	+22 49 52.0	15.6	N	H47
C/2015 ER_{61}	2017 09 24.67917	03 55 45.97	+22 49 04.0	14.4	T	372
C/2015 ER_{61}	2017 09 24.68576	03 55 45.75	+22 49 02.8			372
C/2015 ER_{61}	2017 09 24.81201	03 55 41.90	+22 48 39.6			Q11
C/2015 ER_{61}	2017 09 24.82488	03 55 41.52	+22 48 37.1	13.4	T	Q11
C/2015 ER_{61}	2017 09 24.92995	03 55 38.85	+22 48 14.9	16.5	N	B96
C/2015 ER_{61}	2017 09 24.93160	03 55 38.71	+22 48 14.5	16.5	N	B96
C/2015 ER_{61}	2017 09 24.93323	03 55 38.69	+22 48 13.9	16.5	N	B96
C/2015 ER_{61}	2017 09 24.93486	03 55 38.63	+22 48 13.7	15.4	N	B96
C/2015 ER_{61}	2017 09 24.93649	03 55 38.58	+22 48 13.5	16.1	N	B96
C/2015 ER_{61}	2017 09 25.07240	03 55 34.52	+22 47 51.1	15.8	N	A77
C/2015 ER_{61}	2017 09 25.09338	03 55 33.86	+22 47 47.4	15.8	N	A77
C/2015 ER_{61}	2017 09 25.11509	03 55 33.19	+22 47 43.5	15.7	N	A77
C/2015 ER_{61}	2017 09 25.54172	03 55 20.44	+22 46 25.9	15.4	T	T08
C/2015 ER_{61}	2017 09 25.55894	03 55 19.93	+22 46 22.2	15.9	T	T08
C/2015 ER_{61}	2017 09 25.56063	03 55 19.83	+22 46 22.4	15.5	T	T08
C/2015 ER_{61}	2017 09 25.56891	03 55 19.57	+22 46 20.7	15.5	T	T08
C/2015 ER_{61}	2017 09 25.63514	03 55 17.86	+22 46 06.3			900
C/2015 ER_{61}	2017 09 25.64229	03 55 17.60	+22 46 04.4	12.0	T	900
C/2015 ER_{61}	2017 09 26.01338	03 55 06.06	+22 44 52.4	16.2	N	K97
C/2015 ER_{61}	2017 09 26.04422	03 55 05.05	+22 44 46.7	16.1	N	K97
C/2015 ER_{61}	2017 09 26.04441	03 55 05.07	+22 44 46.0	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04511	03 55 05.04	+22 44 45.9	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04581	03 55 05.02	+22 44 45.8	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04652	03 55 04.99	+22 44 45.8	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04722	03 55 04.96	+22 44 45.8	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04792	03 55 04.93	+22 44 45.5	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04862	03 55 04.93	+22 44 45.6	15.0	N	I81
C/2015 ER_{61}	2017 09 26.04933	03 55 04.89	+22 44 45.2	15.0	N	I81
C/2015 ER_{61}	2017 09 26.05003	03 55 04.89	+22 44 45.0	15.1	N	I81
C/2015 ER_{61}	2017 09 26.05074	03 55 04.86	+22 44 44.8	15.0	N	I81
C/2015 ER_{61}	2017 09 26.05302	03 55 04.78	+22 44 45.1	16.2	N	K97
C/2015 ER_{61}	2017 09 27.02803	03 54 33.30	+22 41 33.5	15.6	N	C36
C/2015 ER_{61}	2017 09 27.03227	03 54 33.11	+22 41 32.9	15.7	N	C36
C/2015 ER_{61}	2017 09 27.03315	03 54 33.09	+22 41 32.3	15.7	N	C36
C/2015 ER_{61}	2017 09 27.03402	03 54 33.07	+22 41 32.7	15.7	N	C36
C/2015 ER_{61}	2017 09 27.03490	03 54 33.03	+22 41 32.3	15.7	N	C36
C/2015 ER_{61}	2017 09 27.03578	03 54 33.00	+22 41 32.5	15.7	N	C36
C/2015 ER_{61}	2017 09 27.03666	03 54 32.97	+22 41 32.3	15.5	N	C36
C/2015 ER_{61}	2017 09 27.03753	03 54 32.94	+22 41 31.7	15.6	N	C36
C/2015 ER_{61}	2017 09 27.03841	03 54 32.91	+22 41 31.8	15.5	N	C36
C/2015 ER_{61}	2017 09 27.03929	03 54 32.87	+22 41 31.1	15.6	N	C36
C/2015 ER_{61}	2017 09 27.56421	03 54 15.15	+22 39 48.9	16.3	T	T05
C/2015 ER_{61}	2017 09 27.57586	03 54 14.71	+22 39 46.8	15.4	T	T05
C/2015 ER_{61}	2017 09 27.57679	03 54 14.68	+22 39 46.5	15.5	T	T05
C/2015 ER_{61}	2017 09 27.58949	03 54 14.23	+22 39 43.7	16.2	T	T05
C/2015 ER_{61}	2017 09 28.07154	03 53 57.57	+22 38 02.8	15.9	N	K A77
C/2015 ER_{61}	2017 09 28.07876	03 53 57.34	+22 38 01.2	15.9	N	K A77
C/2015 ER_{61}	2017 09 28.08519	03 53 57.06	+22 37 59.6	16.0	N	K A77
C/2015 ER_{61}	2017 09 28.09103	03 53 56.88	+22 37 58.7	15.9	N	K A77
C/2015 ER_{61}	2017 09 29.05537	03 53 22.05	+22 34 36.0	15.8	N	K K22
C/2015 ER_{61}	2017 09 29.07407	03 53 21.35	+22 34 32.3	15.8	N	K K22
C/2015 ER_{61}	2017 09 29.09720	03 53 20.43	+22 34 27.6	15.8	N	K K22
C/2015 ER_{61}	2017 09 29.54884	03 53 03.29	+22 32 53.8	15.5	T	T08
C/2015 ER_{61}	2017 09 29.55863	03 53 02.96	+22 32 51.4	15.4	T	T08
C/2015 ER_{61}	2017 09 29.56002	03 53 02.86	+22 32 51.1	15.5	T	T08
C/2015 ER_{61}	2017 09 29.56929	03 53 02.58	+22 32 48.6	15.8	T	T08

C/2015 ER_{61}-B	2017 08 23.97322	03 52 44.92	+23 28 23.3	14.6	N	K K47	
C/2015 ER_{61}-B	2017 08 23.97713	03 52 45.09	+23 28 23.3	14.6	N	K K47	
C/2015 ER_{61}-B	2017 08 23.98104	03 52 45.25	+23 28 23.6	14.6	N	K K47	
C/2015 ER_{61}-B	2017 08 23.98495	03 52 45.39	+23 28 23.8	14.6	N	K K47	

C/2015 H2 (PANSTARRS)

C/2015 H2	2017 06 30.60916	22 31 06.03	−34 01 40.8	18.2	N	Q68	
C/2015 H2	2017 06 30.64097	22 31 05.67	−34 01 41.9	18.2	N	Q68	
C/2015 H2	2017 07 01.67115	22 30 53.57	−34 02 24.3	18.3	N	Q68	
C/2015 H2	2017 07 01.69332	22 30 53.29	−34 02 25.2	18.1	N	Q68	
C/2015 H2	2017 07 02.60232	22 30 41.99	−34 03 02.2	18.1	N	Q68	
C/2015 H2	2017 07 02.63562	22 30 41.56	−34 03 04.4	18.3	N	Q68	
C/2015 H2	2017 07 07.71255	22 29 25.91	−34 06 38.9	18.3	N	Q68	
C/2015 H2	2017 07 07.73617	22 29 25.55	−34 06 39.9	18.3	N	Q68	
C/2015 H2	2017 07 15.68102	22 26 48.22	−34 12 00.1	18.1	N	Q68	
C/2015 H2	2017 07 15.70303	22 26 47.71	−34 12 01.0	18.1	N	Q68	
C/2015 H2	2017 07 17.56182	22 26 04.60	−34 13 06.7	18.0	N	Q68	
C/2015 H2	2017 07 17.59494	22 26 03.76	−34 13 07.6	18.1	N	Q68	
C/2015 H2	2017 07 20.62957	22 24 48.26	−34 14 43.4	18.1	N	Q68	
C/2015 H2	2017 07 20.64353	22 24 47.88	−34 14 43.7	18.2	N	Q68	
C/2015 H2	2017 08 01.48769	22 19 03.64	−34 17 26.2	17.9	T	T08	
C/2015 H2	2017 08 01.49399	22 19 03.47	−34 17 26.3	17.8	T	T08	
C/2015 H2	2017 08 01.49642	22 19 03.43	−34 17 26.5	17.9	T	T08	
C/2015 H2	2017 08 01.50009	22 19 03.29	−34 17 27.1	18.0	T	T08	
C/2015 H2	2017 08 01.51763	22 19 02.59	−34 17 26.4	17.9	T	T08	
C/2015 H2	2017 08 05.40048	22 16 56.49	−34 16 40.3	17.6	T	T08	
C/2015 H2	2017 08 05.41116	22 16 56.26	−34 16 38.6	17.7	T	T08	
C/2015 H2	2017 08 05.41505	22 16 56.08	−34 16 40.8	18.1	T	T08	
C/2015 H2	2017 08 05.41844	22 16 55.98	−34 16 38.9	17.9	T	T08	
C/2015 H2	2017 08 05.52047	22 16 52.53	−34 16 36.1	18.2	N	K E94	
C/2015 H2	2017 08 05.52546	22 16 52.32	−34 16 35.2	18.2	N	K E94	
C/2015 H2	2017 08 05.56755	22 16 50.90	−34 16 34.6	18.2	N	K E94	
C/2015 H2	2017 08 05.57251	22 16 50.69	−34 16 34.4	18.1	N	K E94	
C/2015 H2	2017 08 14.47900	22 11 45.75	−34 10 48.8	17.8	T	T08	
C/2015 H2	2017 08 14.48992	22 11 45.38	−34 10 45.9	18.0	T	T08	
C/2015 H2	2017 08 14.50445	22 11 44.82	−34 10 47.7	17.6	T	T08	
C/2015 H2	2017 08 14.51538	22 11 44.44	−34 10 45.3	18.0	T	T08	
C/2015 H2	2017 08 16.46936	22 10 35.91	−34 08 41.2	18.2	T	T05	
C/2015 H2	2017 08 16.47373	22 10 35.82	−34 08 40.6	18.4	T	T05	
C/2015 H2	2017 08 16.47567	22 10 35.65	−34 08 38.8	18.2	T	T05	
C/2015 H2	2017 08 16.48344	22 10 35.45	−34 08 38.5	18.4	T	T05	
C/2015 H2	2017 09 08.54223	21 57 40.82	−33 19 00.5	18.3	N	K Q68	
C/2015 H2	2017 09 08.66307	21 57 37.10	−33 18 37.2	18.3	N	K Q68	
C/2015 H2	2017 09 08.67487	21 57 36.68	−33 18 35.2	18.2	N	K Q68	
C/2015 H2	2017 09 26.32731	21 50 12.717	−32 10 01.28	19.6	T	F51	
C/2015 H2	2017 09 26.33948	21 50 12.459	−32 09 57.74	19.4	T	F51	

C/2015 LC_2 (PANSTARRS)

C/2015 LC_2	2017 07 20.86232	14 58 33.93	+30 57 22.3	18.8	T	K 461	
C/2015 LC_2	2017 07 20.87017	14 58 33.85	+30 57 21.5	18.8	T	K 461	
C/2015 LC_2	2017 08 21.81968	14 59 35.16	+29 48 48.2	19.5	T	K 461	
C/2015 LC_2	2017 08 21.82538	14 59 35.08	+29 48 46.7	19.3	T	K 461	
C/2015 LC_2	2017 08 23.81112	14 59 55.71	+29 44 07.8	19.2	T	K 461	
C/2015 LC_2	2017 08 23.81597	14 59 55.70	+29 44 07.0	19.2	T	K 461	

P/2015 M2 (PANSTARRS)

P/2015 M2	2017 09 25.43006	00 28 48.469	−01 58 14.50	20.9	T	F51
P/2015 M2	2017 09 25.43071	00 28 48.452	−01 58 14.54	20.7	T	F51
P/2015 M2	2017 09 25.44270	00 28 48.157	−01 58 16.48	21.0	T	F51
P/2015 M2	2017 09 25.44335	00 28 48.133	−01 58 16.47	20.9	T	F51
P/2015 M2	2017 09 25.45542	00 28 47.838	−01 58 18.44	20.5	T	F51
P/2015 M2	2017 09 25.45605	00 28 47.829	−01 58 18.44	20.8	T	F51
P/2015 M2	2017 09 25.46811	00 28 47.512	−01 58 19.95	21.1	T	F51
P/2015 M2	2017 09 25.46875	00 28 47.518	−01 58 20.38	21.1	T	F51
P/2015 M2	2017 09 28.39749	00 27 37.85	−02 05 42.6			G96
P/2015 M2	2017 09 28.40961	00 27 37.46	−02 05 45.4	19.4	T	G96
P/2015 M2	2017 09 28.41812	00 27 37.19	−02 05 46.5	19.3	T	G96
P/2015 M2	2017 09 28.42337	00 27 37.17	−02 05 47.4	19.6	T	G96
P/2015 M2	2017 09 29.47075	00 27 12.312	−02 08 22.26	20.5	T	F51
P/2015 M2	2017 09 29.48216	00 27 12.021	−02 08 23.84	20.9	T	F51
P/2015 M2	2017 09 29.49367	00 27 11.755	−02 08 25.61	20.7	T	F51
P/2015 M2	2017 09 29.50506	00 27 11.466	−02 08 27.27	21.1	T	F51
P/2015 M2	2017 09 30.29420	00 26 52.63	−02 10 25.1	19.8	T	691
P/2015 M2	2017 09 30.30595	00 26 52.29	−02 10 27.2	19.7	T	691
P/2015 M2	2017 09 30.31781	00 26 52.07	−02 10 28.1	19.8	T	691

C/2015 O1 (PANSTARRS)

C/2015 O1	2017 06 14.95125	17 57 58.06	+20 58 17.0	15.3	N	196	
C/2015 O1	2017 06 14.95875	17 57 57.29	+20 58 20.8	15.3	N	196	
C/2015 O1	2017 06 14.96831	17 57 56.30	+20 58 26.3	15.1	N	196	
C/2015 O1	2017 06 19.93575	17 49 22.14	+21 40 54.3	15.0	N	196	
C/2015 O1	2017 06 19.94322	17 49 21.35	+21 40 57.9	15.1	N	196	
C/2015 O1	2017 06 23.94003	17 42 21.57	+22 10 38.2	15.4	N	B96	
C/2015 O1	2017 06 23.94167	17 42 21.32	+22 10 38.5	15.4	N	B96	
C/2015 O1	2017 07 03.90322	17 24 55.77	+23 06 05.1	16.1	N	K 160	
C/2015 O1	2017 07 03.90584	17 24 55.50	+23 06 05.7	16.1	N	K 160	
C/2015 O1	2017 07 03.90846	17 24 55.20	+23 06 06.4	16.1	N	K 160	
C/2015 O1	2017 07 05.90762	17 21 29.09	+23 14 01.3	16.1	N	K 160	
C/2015 O1	2017 07 05.90997	17 21 28.85	+23 14 01.8	16.2	N	K 160	
C/2015 O1	2017 07 05.91231	17 21 28.60	+23 14 02.4	16.2	N	K 160	
C/2015 O1	2017 07 06.41264	17 20 37.30	+23 15 52.7	15.4	T	T08	
C/2015 O1	2017 07 06.42447	17 20 36.06	+23 15 55.1	15.5	T	T08	
C/2015 O1	2017 07 06.42497	17 20 36.01	+23 15 55.1	15.5	T	T08	
C/2015 O1	2017 07 06.43792	17 20 34.67	+23 15 57.9	15.5	T	T08	
C/2015 O1	2017 07 06.88133	17 19 49.47	+23 17 30.1	16.1	N	K 160	
C/2015 O1	2017 07 06.88382	17 19 49.21	+23 17 30.6	16.1	N	K 160	
C/2015 O1	2017 07 06.88633	17 19 48.98	+23 17 31.0	16.1	N	K 160	
C/2015 O1	2017 07 07.66947	17 18 29.14	+23 20 07.6			349	
C/2015 O1	2017 07 07.67659	17 18 28.40	+23 20 09.1	14.4	T	349	
C/2015 O1	2017 07 08.41801	17 17 13.37	+23 22 29.4	15.7	T	T05	
C/2015 O1	2017 07 08.42826	17 17 12.31	+23 22 31.4	15.7	T	T05	
C/2015 O1	2017 07 08.43634	17 17 11.49	+23 22 33.0	15.8	T	T05	
C/2015 O1	2017 07 08.45004	17 17 10.10	+23 22 35.3	15.8	T	T05	
C/2015 O1	2017 07 08.94087	17 16 20.64	+23 24 02.2	15.2	N	B96	
C/2015 O1	2017 07 08.94250	17 16 20.48	+23 24 02.3	15.2	N	B96	
C/2015 O1	2017 07 08.94414	17 16 20.38	+23 24 02.5	15.2	N	B96	
C/2015 O1	2017 07 08.94578	17 16 20.17	+23 24 02.8	15.1	N	B96	
C/2015 O1	2017 07 08.94741	17 16 20.01	+23 24 03.0	15.2	N	B96	

C/2015 O1	2017 07 08.94904	17 16 19.84	+23 24 03.4	15.2	N	B96
C/2015 O1	2017 07 08.95067	17 16 19.68	+23 24 03.8	15.2	N	B96
C/2015 O1	2017 07 09.99887	17 14 34.54	+23 26 58.0	15.4	N	9 G40
C/2015 O1	2017 07 10.09974	17 14 24.37	+23 27 13.8	15.5	N	9 G40
C/2015 O1	2017 07 10.39042	17 13 55.44	+23 27 59.5	15.5	T	T08
C/2015 O1	2017 07 10.40281	17 13 54.19	+23 28 01.3	15.5	T	T08
C/2015 O1	2017 07 10.41592	17 13 52.87	+23 28 03.3	15.5	T	T08
C/2015 O1	2017 07 10.86953	17 13 07.77	+23 29 10.0	14.8	N	585
C/2015 O1	2017 07 10.87120	17 13 07.60	+23 29 10.7	14.8	N	585
C/2015 O1	2017 07 10.87505	17 13 07.27	+23 29 10.2	14.8	N	585
C/2015 O1	2017 07 10.87600	17 13 07.13	+23 29 10.1	15.0	N	585
C/2015 O1	2017 07 10.87673	17 13 07.10	+23 29 10.6	14.9	N	585
C/2015 O1	2017 07 10.87754	17 13 06.99	+23 29 10.8	14.9	N	585
C/2015 O1	2017 07 10.87827	17 13 06.94	+23 29 10.6	14.8	N	585
C/2015 O1	2017 07 10.87899	17 13 06.85	+23 29 10.9	14.9	N	585
C/2015 O1	2017 07 10.87971	17 13 06.78	+23 29 10.9	14.7	N	585
C/2015 O1	2017 07 10.88043	17 13 06.71	+23 29 11.2	14.8	N	585
C/2015 O1	2017 07 10.88115	17 13 06.65	+23 29 10.7	14.9	N	585
C/2015 O1	2017 07 10.88188	17 13 06.61	+23 29 11.6	14.8	N	585
C/2015 O1	2017 07 10.88260	17 13 06.55	+23 29 11.5	14.8	N	585
C/2015 O1	2017 07 10.91463	17 13 03.41	+23 29 15.5	15.2	N	K Z78
C/2015 O1	2017 07 10.91736	17 13 03.14	+23 29 16.4	15.3	N	K Z78
C/2015 O1	2017 07 10.91887	17 13 02.93	+23 29 16.8	15.3	N	K Z78
C/2015 O1	2017 07 11.87927	17 11 28.08	+23 31 28.5	15.1	N	C86
C/2015 O1	2017 07 11.88116	17 11 27.88	+23 31 28.7	15.1	N	C86
C/2015 O1	2017 07 11.88490	17 11 27.52	+23 31 29.1	15.1	N	C86
C/2015 O1	2017 07 12.39273	17 10 37.53	+23 32 33.7	15.8	T	T05
C/2015 O1	2017 07 12.39544	17 10 37.26	+23 32 34.0	15.8	T	T05
C/2015 O1	2017 07 12.40941	17 10 35.88	+23 32 35.8	15.8	T	T05
C/2015 O1	2017 07 12.41025	17 10 35.80	+23 32 35.7	15.8	T	T05
C/2015 O1	2017 07 12.41074	17 10 35.75	+23 32 35.8	15.8	T	T05
C/2015 O1	2017 07 12.41602	17 10 35.23	+23 32 36.5	15.8	T	T05
C/2015 O1	2017 07 12.42217	17 10 34.62	+23 32 37.2	15.9	T	T05
C/2015 O1	2017 07 12.43422	17 10 33.42	+23 32 38.4	15.9	T	T05
C/2015 O1	2017 07 12.86934	17 09 50.98	+23 33 29.2	15.1	N	C86
C/2015 O1	2017 07 12.87120	17 09 50.80	+23 33 30.1	15.1	N	C86
C/2015 O1	2017 07 12.87497	17 09 50.46	+23 33 30.4	15.1	N	C86
C/2015 O1	2017 07 12.88811	17 09 49.17	+23 33 31.7	15.6	N	K14
C/2015 O1	2017 07 12.89992	17 09 47.99	+23 33 32.8	15.6	N	K14
C/2015 O1	2017 07 12.90425	17 09 47.54	+23 33 33.6	14.8	N	K 203
C/2015 O1	2017 07 12.90698	17 09 47.28	+23 33 33.8	15.7	N	K14
C/2015 O1	2017 07 12.93898	17 09 44.13	+23 33 37.2	16.2	N	B96
C/2015 O1	2017 07 12.94061	17 09 43.95	+23 33 37.3	16.3	N	B96
C/2015 O1	2017 07 12.94225	17 09 43.80	+23 33 37.4	16.2	N	B96
C/2015 O1	2017 07 12.94388	17 09 43.66	+23 33 37.7	16.3	N	B96
C/2015 O1	2017 07 12.94551	17 09 43.51	+23 33 37.8	16.3	N	B96
C/2015 O1	2017 07 12.94715	17 09 43.33	+23 33 37.9	16.2	N	B96
C/2015 O1	2017 07 12.94888	17 09 43.18	+23 33 38.1	16.3	N	B96
C/2015 O1	2017 07 12.95051	17 09 43.00	+23 33 38.2	16.4	N	B96
C/2015 O1	2017 07 12.95214	17 09 42.87	+23 33 38.7	16.4	N	B96
C/2015 O1	2017 07 12.98185	17 09 39.94	+23 33 42.1	15.6	N	K02
C/2015 O1	2017 07 12.98647	17 09 39.49	+23 33 42.7	15.5	N	K02
C/2015 O1	2017 07 12.98796	17 09 39.31	+23 33 43.1	14.7	N	K 203
C/2015 O1	2017 07 12.98800	17 09 39.32	+23 33 43.0	15.0	N	C23
C/2015 O1	2017 07 12.99249	17 09 38.88	+23 33 43.4	15.2	N	C23
C/2015 O1	2017 07 12.99425	17 09 38.71	+23 33 43.6	15.4	N	K02
C/2015 O1	2017 07 12.99623	17 09 38.52	+23 33 43.7	15.2	N	C23
C/2015 O1	2017 07 13.22891	17 09 15.83	+23 34 12.3	15.2	N	W96
C/2015 O1	2017 07 13.25744	17 09 13.06	+23 34 15.7	15.1	N	W96
C/2015 O1	2017 07 13.90181	17 08 10.63	+23 35 20.5	15.3	N	K C43
C/2015 O1	2017 07 13.90509	17 08 10.32	+23 35 20.8	15.3	N	K C43
C/2015 O1	2017 07 13.90837	17 08 09.99	+23 35 21.1	15.3	N	K C43
C/2015 O1	2017 07 13.91229	17 08 09.60	+23 35 21.5	15.5	N	K C43
C/2015 O1	2017 07 13.99060	17 08 02.02	+23 35 29.6	15.1	N	Z55
C/2015 O1	2017 07 13.99425	17 08 01.67	+23 35 29.8	15.1	N	Z55
C/2015 O1	2017 07 13.99603	17 08 01.49	+23 35 29.9	15.1	N	Z55
C/2015 O1	2017 07 13.99782	17 08 01.33	+23 35 30.2	15.1	N	Z55
C/2015 O1	2017 07 13.99907	17 08 01.20	+23 35 30.3	15.1	N	Z55
C/2015 O1	2017 07 14.05071	17 07 56.21	+23 35 36.2	15.1	N	J22
C/2015 O1	2017 07 14.05391	17 07 55.88	+23 35 35.7	15.1	N	J22
C/2015 O1	2017 07 14.05712	17 07 55.58	+23 35 35.8	15.1	N	J22
C/2015 O1	2017 07 14.86334	17 06 38.15	+23 36 49.8	16.1	N	K 160
C/2015 O1	2017 07 14.86609	17 06 37.89	+23 36 50.1	16.1	N	K 160
C/2015 O1	2017 07 14.86883	17 06 37.60	+23 36 50.3	16.0	N	K 160
C/2015 O1	2017 07 16.87977	17 03 26.96	+23 39 15.3	15.1	N	C86
C/2015 O1	2017 07 16.88166	17 03 26.79	+23 39 15.2	15.1	N	C86
C/2015 O1	2017 07 16.88539	17 03 26.39	+23 39 16.1	15.1	N	C86
C/2015 O1	2017 07 16.90143	17 03 24.89	+23 39 16.3	16.3	N	K 160
C/2015 O1	2017 07 16.90418	17 03 24.63	+23 39 16.5	16.3	N	K 160
C/2015 O1	2017 07 16.90693	17 03 24.35	+23 39 16.4	16.4	N	K 160
C/2015 O1	2017 07 16.94789	17 03 20.53	+23 39 18.2	14.9	N	987
C/2015 O1	2017 07 16.97591	17 03 17.89	+23 39 19.9	14.9	N	987
C/2015 O1	2017 07 17.88873	17 01 52.64	+23 40 06.9	15.8	N	L04
C/2015 O1	2017 07 17.89391	17 01 52.29	+23 40 06.7	15.4	N	L04
C/2015 O1	2017 07 17.89488	17 01 52.19	+23 40 06.5	15.9	N	K97
C/2015 O1	2017 07 17.89806	17 01 51.93	+23 40 07.2	15.3	N	511
C/2015 O1	2017 07 17.90025	17 01 51.73	+23 40 07.3	15.7	N	511
C/2015 O1	2017 07 17.90821	17 01 50.95	+23 40 07.2	15.9	N	K97
C/2015 O1	2017 07 17.93255	17 01 48.66	+23 40 08.4	15.9	N	K97
C/2015 O1	2017 07 17.96255	17 01 45.86	+23 40 09.3	14.7	N	585
C/2015 O1	2017 07 17.96279	17 01 45.85	+23 40 10.2	14.8	N	585
C/2015 O1	2017 07 17.96382	17 01 45.76	+23 40 09.7	14.8	N	585
C/2015 O1	2017 07 17.96595	17 01 45.56	+23 40 10.0	14.8	N	585
C/2015 O1	2017 07 17.96666	17 01 45.48	+23 40 09.8	14.8	N	585
C/2015 O1	2017 07 17.96737	17 01 45.44	+23 40 09.9	14.8	N	585
C/2015 O1	2017 07 17.96808	17 01 45.37	+23 40 09.8	14.8	N	585
C/2015 O1	2017 07 17.96878	17 01 45.32	+23 40 08.8	14.8	N	585
C/2015 O1	2017 07 17.96949	17 01 45.24	+23 40 09.8	14.8	N	585
C/2015 O1	2017 07 17.97020	17 01 45.17	+23 40 09.7	14.8	N	585
C/2015 O1	2017 07 17.98409	17 01 43.69	+23 40 11.1	14.6	N	987
C/2015 O1	2017 07 18.00231	17 01 42.25	+23 40 11.0	14.9	N	987
C/2015 O1	2017 07 18.36998	17 01 08.26	+23 40 27.2	15.6	T	T08
C/2015 O1	2017 07 18.38247	17 01 07.07	+23 40 27.8	15.6	T	T08
C/2015 O1	2017 07 18.39579	17 01 05.86	+23 40 28.0	15.5	T	T08
C/2015 O1	2017 07 18.40356	17 01 05.13	+23 40 28.4	15.5	T	T08
C/2015 O1	2017 07 18.88238	17 00 21.20	+23 40 43.6	16.2	N	K 160

C/2015 O1	2017 07 18.88514	17 00 20.94	+23 40 43.6	16.1	N	K 160
C/2015 O1	2017 07 18.88790	17 00 20.67	+23 40 44.0	16.1	N	K 160
C/2015 O1	2017 07 18.98221	17 00 11.99	+23 40 46.7	14.8	N	I81
C/2015 O1	2017 07 19.00068	17 00 10.29	+23 40 46.4	14.2	N	I81
C/2015 O1	2017 07 19.02228	17 00 08.31	+23 40 47.6	14.7	N	I81
C/2015 O1	2017 07 19.85468	16 58 52.58	+23 41 07.3	16.3	N	K 160
C/2015 O1	2017 07 19.85738	16 58 52.33	+23 41 07.4	16.6	N	K 160
C/2015 O1	2017 07 19.86018	16 58 52.04	+23 41 07.9	16.1	N	K 160
C/2015 O1	2017 07 19.89914	16 58 48.54	+23 41 09.0	15.4	N	C77
C/2015 O1	2017 07 19.90344	16 58 48.12	+23 41 08.4	15.4	N	C77
C/2015 O1	2017 07 19.91157	16 58 47.35	+23 41 08.4	14.9	N	585
C/2015 O1	2017 07 19.91313	16 58 47.24	+23 41 07.4	15.0	N	585
C/2015 O1	2017 07 19.91384	16 58 47.14	+23 41 08.5	15.1	N	585
C/2015 O1	2017 07 19.91455	16 58 47.08	+23 41 08.3	15.0	N	585
C/2015 O1	2017 07 19.91526	16 58 47.01	+23 41 08.5	15.0	N	585
C/2015 O1	2017 07 19.91527	16 58 46.99	+23 41 09.6	15.4	N	C77
C/2015 O1	2017 07 19.91596	16 58 46.97	+23 41 07.6	15.0	N	585
C/2015 O1	2017 07 19.91667	16 58 46.90	+23 41 08.4	15.0	N	585
C/2015 O1	2017 07 19.91738	16 58 46.82	+23 41 08.6	15.0	N	585
C/2015 O1	2017 07 19.91809	16 58 46.76	+23 41 08.4	15.0	N	585
C/2015 O1	2017 07 19.91880	16 58 46.70	+23 41 08.1	15.0	N	585
C/2015 O1	2017 07 19.91951	16 58 46.63	+23 41 07.9	15.0	N	585
C/2015 O1	2017 07 19.92022	16 58 46.56	+23 41 07.8	15.0	N	585
C/2015 O1	2017 07 19.92093	16 58 46.49	+23 41 08.5	15.1	N	585
C/2015 O1	2017 07 19.92163	16 58 46.42	+23 41 08.5	15.0	N	585
C/2015 O1	2017 07 19.92234	16 58 46.39	+23 41 08.2	15.0	N	585
C/2015 O1	2017 07 19.92305	16 58 46.32	+23 41 08.5	15.1	N	585
C/2015 O1	2017 07 19.92376	16 58 46.24	+23 41 08.4	15.1	N	585
C/2015 O1	2017 07 20.84365	16 57 23.55	+23 41 18.8	14.5	N	KK73
C/2015 O1	2017 07 20.85368	16 57 22.57	+23 41 19.1	14.6	N	KK73
C/2015 O1	2017 07 20.90860	16 57 17.70	+23 41 19.0	15.1	N	C23
C/2015 O1	2017 07 20.91159	16 57 17.43	+23 41 18.7	15.4	N	C23
C/2015 O1	2017 07 20.91459	16 57 17.14	+23 41 18.8	15.6	N	C23
C/2015 O1	2017 07 20.93858	16 57 15.03	+23 41 20.2	15.0	N	Z55
C/2015 O1	2017 07 20.94065	16 57 14.86	+23 41 19.2	15.0	N	Z55
C/2015 O1	2017 07 20.94228	16 57 14.70	+23 41 19.3	15.1	N	Z55
C/2015 O1	2017 07 20.94449	16 57 14.50	+23 41 19.1	15.0	N	Z55
C/2015 O1	2017 07 20.94568	16 57 14.39	+23 41 19.1	15.0	N	Z55
C/2015 O1	2017 07 20.94969	16 57 13.95	+23 41 19.2	16.1	N	K02
C/2015 O1	2017 07 20.95587	16 57 13.44	+23 41 19.0	15.7	N	K02
C/2015 O1	2017 07 20.96204	16 57 12.90	+23 41 19.1	15.7	N	K02
C/2015 O1	2017 07 20.96950	16 57 12.19	+23 41 19.9	15.0	N	212
C/2015 O1	2017 07 20.97094	16 57 12.07	+23 41 20.0	15.0	N	212
C/2015 O1	2017 07 20.97238	16 57 11.94	+23 41 19.9	15.1	N	212
C/2015 O1	2017 07 22.37062	16 55 08.21	+23 41 13.3	15.3	T	T08
C/2015 O1	2017 07 22.38231	16 55 07.17	+23 41 12.9	15.2	T	T08
C/2015 O1	2017 07 22.38280	16 55 07.14	+23 41 12.8	15.1	T	T08
C/2015 O1	2017 07 22.39523	16 55 06.01	+23 41 12.4	15.0	T	T08
C/2015 O1	2017 07 22.87565	16 54 24.16	+23 41 03.6	16.2	N	K 160
C/2015 O1	2017 07 22.87846	16 54 23.91	+23 41 03.5	16.2	N	K 160
C/2015 O1	2017 07 22.88128	16 54 23.67	+23 41 03.3	16.1	N	K 160
C/2015 O1	2017 07 22.95165	16 54 17.51	+23 41 01.5	15.0	N	I72
C/2015 O1	2017 07 22.96437	16 54 16.37	+23 41 03.3	14.9	N	J22
C/2015 O1	2017 07 22.96755	16 54 16.07	+23 41 02.3	14.9	N	J22
C/2015 O1	2017 07 22.96913	16 54 16.00	+23 41 01.2	14.9	N	J22
C/2015 O1	2017 07 22.97287	16 54 15.63	+23 41 01.9	15.0	N	I72
C/2015 O1	2017 07 22.97385	16 54 15.55	+23 41 01.7	15.0	N	I72
C/2015 O1	2017 07 24.89113	16 51 31.19	+23 39 59.5	14.9	N	KK73
C/2015 O1	2017 07 24.89499	16 51 30.91	+23 39 59.1	15.1	N	KK73
C/2015 O1	2017 07 25.87294	16 50 08.82	+23 39 11.3	15.9	N	K 160
C/2015 O1	2017 07 25.87550	16 50 08.61	+23 39 11.1	15.9	N	K 160
C/2015 O1	2017 07 25.87806	16 50 08.40	+23 39 10.6	15.9	N	K 160
C/2015 O1	2017 07 25.94328	16 50 02.94	+23 39 06.8	15.6	N	K02
C/2015 O1	2017 07 25.94791	16 50 02.55	+23 39 06.4	15.7	N	K02
C/2015 O1	2017 07 25.95410	16 50 02.04	+23 39 05.9	15.6	N	K02
C/2015 O1	2017 07 26.03309	16 49 55.43	+23 39 01.5	15.5	N	Z38
C/2015 O1	2017 07 26.03403	16 49 55.39	+23 39 02.2	15.5	N	Z38
C/2015 O1	2017 07 26.03497	16 49 55.24	+23 39 01.3	15.4	N	Z38
C/2015 O1	2017 07 26.03590	16 49 55.22	+23 39 02.8	15.5	N	Z38
C/2015 O1	2017 07 26.03684	16 49 55.17	+23 39 02.9	15.5	N	Z38
C/2015 O1	2017 07 26.03778	16 49 55.13	+23 39 01.7	15.5	N	Z38
C/2015 O1	2017 07 26.35138	16 49 29.09	+23 38 44.7	15.5	T	T08
C/2015 O1	2017 07 26.36302	16 49 28.11	+23 38 43.9	15.5	T	T08
C/2015 O1	2017 07 26.36350	16 49 28.07	+23 38 43.9	15.5	T	T08
C/2015 O1	2017 07 26.37513	16 49 27.11	+23 38 43.2	15.5	T	T08
C/2015 O1	2017 07 26.85672	16 48 47.51	+23 38 11.6	15.9	N	K 160
C/2015 O1	2017 07 26.85927	16 48 47.29	+23 38 11.4	15.9	N	K 160
C/2015 O1	2017 07 26.86183	16 48 47.12	+23 38 11.0	15.9	N	K 160
C/2015 O1	2017 07 26.94603	16 48 40.19	+23 38 06.0	14.6	N	I81
C/2015 O1	2017 07 26.95531	16 48 39.41	+23 38 05.4	14.7	N	I81
C/2015 O1	2017 07 26.96112	16 48 38.93	+23 38 04.9	14.8	N	I81
C/2015 O1	2017 07 27.32568	16 48 09.212	+23 37 41.11	16.8	T	F51
C/2015 O1	2017 07 27.33922	16 48 08.103	+23 37 39.62	16.7	T	F51
C/2015 O1	2017 07 27.35278	16 48 06.991	+23 37 38.92	16.8	T	F51
C/2015 O1	2017 07 27.36634	16 48 05.876	+23 37 37.64	16.7	T	F51
C/2015 O1	2017 07 27.84620	16 47 27.00	+23 37 01.2	15.2	T	152
C/2015 O1	2017 07 27.84826	16 47 26.87	+23 37 01.0	15.2	T	152
C/2015 O1	2017 07 27.84970	16 47 26.77	+23 37 00.7	15.2	T	152
C/2015 O1	2017 07 27.85113	16 47 26.55	+23 37 01.0	15.1	T	152
C/2015 O1	2017 07 27.87823	16 47 24.44	+23 36 59.2	15.5	N	K14
C/2015 O1	2017 07 27.88875	16 47 23.58	+23 36 58.8	15.7	N	K14
C/2015 O1	2017 07 27.89309	16 47 23.25	+23 36 58.0	15.4	N	B96
C/2015 O1	2017 07 27.89473	16 47 23.10	+23 36 57.9	15.4	N	B96
C/2015 O1	2017 07 27.89664	16 47 22.96	+23 36 57.8	15.4	N	B96
C/2015 O1	2017 07 27.89828	16 47 22.82	+23 36 57.7	15.4	N	B96
C/2015 O1	2017 07 27.89991	16 47 22.69	+23 36 57.6	15.4	N	B96
C/2015 O1	2017 07 27.90154	16 47 22.55	+23 36 57.4	15.4	N	B96
C/2015 O1	2017 07 27.90328	16 47 22.44	+23 36 57.2	15.4	N	B96
C/2015 O1	2017 07 27.95988	16 47 17.82	+23 36 52.7	15.7	N	K02
C/2015 O1	2017 07 27.96257	16 47 17.58	+23 36 52.8	15.2	N	C23
C/2015 O1	2017 07 27.96610	16 47 17.31	+23 36 52.3	15.5	N	K02
C/2015 O1	2017 07 27.96855	16 47 17.09	+23 36 52.4	15.1	N	C23
C/2015 O1	2017 07 27.97379	16 47 16.67	+23 36 52.1	15.0	N	C23
C/2015 O1	2017 07 27.97384	16 47 16.70	+23 36 51.5	16.0	N	K02
C/2015 O1	2017 07 28.35379	16 46 46.20	+23 36 22.8	15.7	T	T05
C/2015 O1	2017 07 28.36309	16 46 45.44	+23 36 22.1	15.8	T	T05

C/2015 O1	2017 07 28.36921	16 46 44.94	+23 36 21.4	15.8	T	T05
C/2015 O1	2017 07 28.38079	16 46 44.01	+23 36 20.6	15.6	T	T05
C/2015 O1	2017 07 28.86448	16 46 05.58	+23 35 39.6	15.5	N	K14
C/2015 O1	2017 07 28.88159	16 46 04.20	+23 35 38.2	15.6	N	K14
C/2015 O1	2017 07 29.87265	16 44 46.28	+23 34 07.2	15.1	N	Z55
C/2015 O1	2017 07 29.87389	16 44 46.16	+23 34 07.1	15.1	N	Z55
C/2015 O1	2017 07 29.87631	16 44 45.97	+23 34 07.1	15.0	N	Z55
C/2015 O1	2017 07 29.87697	16 44 45.93	+23 34 06.9	15.0	N	Z55
C/2015 O1	2017 07 29.93355	16 44 41.48	+23 34 01.4	15.6	N	9 G40
C/2015 O1	2017 07 29.94075	16 44 40.90	+23 34 01.0	15.6	N	9 G40
C/2015 O1	2017 07 29.94510	16 44 40.57	+23 34 00.2	15.6	N	9 G40
C/2015 O1	2017 07 29.94829	16 44 40.30	+23 33 59.2	16.7	N	C47
C/2015 O1	2017 07 29.95345	16 44 39.92	+23 33 58.5	16.6	N	C47
C/2015 O1	2017 07 29.95899	16 44 39.47	+23 33 58.2	16.3	N	C47
C/2015 O1	2017 07 29.96526	16 44 38.96	+23 33 57.4	16.1	N	C47
C/2015 O1	2017 07 29.97190	16 44 38.45	+23 33 56.8	16.7	N	C47
C/2015 O1	2017 07 30.13284	16 44 26.00	+23 33 41.5	15.6	N	KW25
C/2015 O1	2017 07 30.15706	16 44 24.10	+23 33 39.1	15.7	N	KW25
C/2015 O1	2017 07 30.89488	16 43 27.28	+23 32 23.8	15.7	N	K14
C/2015 O1	2017 07 30.90627	16 43 26.35	+23 32 22.8	15.7	N	K14
C/2015 O1	2017 07 30.91781	16 43 25.47	+23 32 21.5	15.7	N	K14
C/2015 O1	2017 07 30.92924	16 43 24.60	+23 32 20.4	15.7	N	K14
C/2015 O1	2017 07 30.94109	16 43 23.67	+23 32 18.3	15.6	N	K02
C/2015 O1	2017 07 30.94726	16 43 23.19	+23 32 17.6	15.7	N	K02
C/2015 O1	2017 07 30.95344	16 43 22.70	+23 32 16.9	16.0	N	K02
C/2015 O1	2017 07 31.05429	16 43 14.99	+23 32 06.5	15.1	N	I81
C/2015 O1	2017 07 31.05996	16 43 14.54	+23 32 05.5	15.3	N	I81
C/2015 O1	2017 07 31.88741	16 42 11.89	+23 30 34.0	15.8	N	K 160
C/2015 O1	2017 07 31.88996	16 42 11.70	+23 30 33.7	15.9	N	K 160
C/2015 O1	2017 07 31.89252	16 42 11.51	+23 30 33.2	15.8	N	K 160
C/2015 O1	2017 07 31.91280	16 42 09.95	+23 30 30.6	16.6	N	C47
C/2015 O1	2017 07 31.91612	16 42 09.73	+23 30 29.7	16.9	N	C47
C/2015 O1	2017 07 31.91981	16 42 09.48	+23 30 29.6	16.6	N	C47
C/2015 O1	2017 07 31.92350	16 42 09.16	+23 30 28.7	16.9	N	C47
C/2015 O1	2017 07 31.92719	16 42 08.91	+23 30 28.6	16.8	N	C47
C/2015 O1	2017 07 31.93088	16 42 08.59	+23 30 27.9	16.1	N	C47
C/2015 O1	2017 08 01.14356	16 41 52.72	+23 30 03.6	14.3	N	KW33
C/2015 O1	2017 08 01.15556	16 41 51.74	+23 30 02.9	14.2	N	KW33
C/2015 O1	2017 08 01.16757	16 41 50.84	+23 30 00.9	14.2	N	KW33
C/2015 O1	2017 08 01.34443	16 41 37.64	+23 29 41.0	15.9	T	T05
C/2015 O1	2017 08 01.35374	16 41 36.94	+23 29 40.0	15.8	T	T05
C/2015 O1	2017 08 01.36273	16 41 36.25	+23 29 38.9	15.8	T	T05
C/2015 O1	2017 08 01.36832	16 41 35.84	+23 29 38.2	15.8	T	T05
C/2015 O1	2017 08 01.94795	16 40 52.88	+23 28 27.6	15.9	N	J27
C/2015 O1	2017 08 01.95460	16 40 52.40	+23 28 25.4	15.9	N	J27
C/2015 O1	2017 08 01.95790	16 40 52.17	+23 28 26.7	15.9	N	J27
C/2015 O1	2017 08 02.84360	16 39 47.44	+23 26 31.8	16.0	N	K 160
C/2015 O1	2017 08 02.84736	16 39 47.18	+23 26 31.4	16.0	N	K 160
C/2015 O1	2017 08 02.85042	16 39 46.91	+23 26 31.0	16.0	N	K 160
C/2015 O1	2017 08 02.87751	16 39 45.00	+23 26 27.3	15.1	N	Z55
C/2015 O1	2017 08 02.88124	16 39 44.74	+23 26 26.8	15.1	N	Z55
C/2015 O1	2017 08 02.88339	16 39 44.55	+23 26 26.7	15.1	N	Z55
C/2015 O1	2017 08 02.88546	16 39 44.41	+23 26 26.4	15.1	N	Z55
C/2015 O1	2017 08 02.93547	16 39 40.71	+23 26 19.5	16.1	N	J27
C/2015 O1	2017 08 02.93775	16 39 40.59	+23 26 19.0	16.2	N	J27
C/2015 O1	2017 08 02.94078	16 39 40.37	+23 26 18.7			J27
C/2015 O1	2017 08 03.34531	16 39 11.18	+23 25 25.4	15.2	T	T08
C/2015 O1	2017 08 03.35414	16 39 10.53	+23 25 24.1	15.5	T	T08
C/2015 O1	2017 08 03.36160	16 39 09.99	+23 25 23.0	15.5	T	T08
C/2015 O1	2017 08 03.87044	16 38 33.67	+23 24 13.2	15.1	N	A77
C/2015 O1	2017 08 03.90229	16 38 31.40	+23 24 07.2	15.2	N	A77
C/2015 O1	2017 08 03.90314	16 38 31.48	+23 24 07.4	15.1	N	I72
C/2015 O1	2017 08 03.93286	16 38 29.32	+23 24 03.0	15.0	N	I72
C/2015 O1	2017 08 03.94058	16 38 28.70	+23 24 01.8	15.2	N	A77
C/2015 O1	2017 08 03.96376	16 38 27.12	+23 23 58.0	15.1	N	I72
C/2015 O1	2017 08 05.15203	16 37 03.80	+23 21 05.0	15.5	N	KW25
C/2015 O1	2017 08 05.16830	16 37 02.66	+23 21 02.6	15.1	N	KW25
C/2015 O1	2017 08 05.86019	16 36 15.14	+23 19 16.2	15.2	N	C23
C/2015 O1	2017 08 05.86619	16 36 14.72	+23 19 15.2	15.2	N	C23
C/2015 O1	2017 08 05.87143	16 36 14.36	+23 19 14.6	15.1	N	C23
C/2015 O1	2017 08 05.87802	16 36 13.90	+23 19 13.6	15.1	N	B96
C/2015 O1	2017 08 05.87966	16 36 13.82	+23 19 12.8	15.2	N	B96
C/2015 O1	2017 08 05.88130	16 36 13.68	+23 19 12.7	15.2	N	B96
C/2015 O1	2017 08 05.88321	16 36 13.58	+23 19 12.6	15.2	N	B96
C/2015 O1	2017 08 05.88484	16 36 13.47	+23 19 12.2	15.2	N	B96
C/2015 O1	2017 08 05.88663	16 36 13.33	+23 19 11.9	15.2	N	B96
C/2015 O1	2017 08 05.88837	16 36 13.23	+23 19 11.4	15.3	N	B96
C/2015 O1	2017 08 05.89000	16 36 13.12	+23 19 11.3	15.3	N	B96
C/2015 O1	2017 08 05.92099	16 36 10.94	+23 19 06.2	14.9	N	I81
C/2015 O1	2017 08 05.93200	16 36 10.24	+23 19 04.9	15.0	N	I81
C/2015 O1	2017 08 05.93388	16 36 10.08	+23 19 05.1	15.0	N	I81
C/2015 O1	2017 08 05.95556	16 36 08.57	+23 19 01.8	15.4	N	Z21
C/2015 O1	2017 08 05.96017	16 36 08.27	+23 19 01.5	15.4	N	Z21
C/2015 O1	2017 08 05.96587	16 36 07.87	+23 19 00.8	15.5	N	Z21
C/2015 O1	2017 08 06.32896	16 35 43.25	+23 18 03.3	15.8	T	T05
C/2015 O1	2017 08 06.34029	16 35 42.47	+23 18 01.4	15.8	T	T05
C/2015 O1	2017 08 06.35130	16 35 41.71	+23 17 59.4	15.9	T	T05
C/2015 O1	2017 08 06.35179	16 35 41.70	+23 17 59.6	15.9	T	T05
C/2015 O1	2017 08 06.86371	16 35 07.34	+23 16 36.1	16.0	N	K 160
C/2015 O1	2017 08 06.86661	16 35 07.14	+23 16 35.7	16.0	N	K 160
C/2015 O1	2017 08 06.86950	16 35 06.98	+23 16 35.5	16.0	N	K 160
C/2015 O1	2017 08 06.87804	16 35 06.37	+23 16 34.0	15.2	N	C86
C/2015 O1	2017 08 06.88405	16 35 06.02	+23 16 33.1	15.2	N	C86
C/2015 O1	2017 08 06.88707	16 35 05.79	+23 16 33.2	15.1	N	C86
C/2015 O1	2017 08 07.04453	16 34 55.37	+23 16 08.3	18	T	C51
Geocentric position (km)		− 2823.8300	− 5693.4100	+ 2579.0177		
C/2015 O1	2017 08 07.17544	16 34 46.64	+23 15 45.9			C51
Geocentric position (km)		− 2811.8454	− 5709.9401	+ 2555.5197		
C/2015 O1	2017 08 07.29370	16 34 38.771	+23 15 26.06	16.9	T	F51
C/2015 O1	2017 08 07.30401	16 34 38.075	+23 15 24.37	16.9	T	F51
C/2015 O1	2017 08 07.32471	16 34 36.687	+23 15 20.87	16.9	T	F51
C/2015 O1	2017 08 07.37179	16 34 33.66	+23 15 13.9			C51
Geocentric position (km)		− 2793.6773	− 5734.5084	+ 2520.2715		
C/2015 O1	2017 08 07.56827	16 34 20.70	+23 14 40.9			C51
Geocentric position (km)		− 2772.3154	− 5725.2614	+ 2565.1024		

C/2015 O1	2017 08 07.63372	16 34 16.37	+23 14 28.8				C51
Geocentric position (km)	− 2766.2373	− 5733.4188	+ 2553.4377				
C/2015 O1	2017 08 07.76463	16 34 07.83	+23 14 07.4				C51
Geocentric position (km)	− 2754.0082	− 5749.6551	+ 2530.0952				
C/2015 O1	2017 08 07.86308	16 34 01.27	+23 13 50.1	15.6	N		K14
C/2015 O1	2017 08 07.87276	16 34 00.62	+23 13 47.9	15.7	N		K14
C/2015 O1	2017 08 07.88219	16 33 59.97	+23 13 46.6	15.7	N		K14
C/2015 O1	2017 08 07.89161	16 33 59.30	+23 13 44.3	15.7	N		K14
C/2015 O1	2017 08 08.02656	16 33 50.66	+23 13 23.5				C51
Geocentric position (km)	− 2726.5659	− 5749.0759	+ 2560.6710				
C/2015 O1	2017 08 08.86676	16 32 56.34	+23 10 55.8	15.1	N		Z55
C/2015 O1	2017 08 08.86777	16 32 56.29	+23 10 55.6	15.1	N		Z55
C/2015 O1	2017 08 08.86906	16 32 56.22	+23 10 55.8	15.1	N		Z55
C/2015 O1	2017 08 08.86973	16 32 56.14	+23 10 55.5	15.1	N		Z55
C/2015 O1	2017 08 08.87380	16 32 55.90	+23 10 54.8	15.1	N		Z55
C/2015 O1	2017 08 08.92510	16 32 52.65	+23 10 45.5	15.0	N		I72
C/2015 O1	2017 08 08.96083	16 32 50.35	+23 10 39.0	15.0	N		I72
C/2015 O1	2017 08 08.98892	16 32 48.53	+23 10 34.0	14.9	N		I72
C/2015 O1	2017 08 09.45536	16 32 18.91	+23 09 11.3			K	D81
C/2015 O1	2017 08 09.45841	16 32 18.73	+23 09 10.1			K	D81
C/2015 O1	2017 08 09.46146	16 32 18.54	+23 09 09.9			K	D81
C/2015 O1	2017 08 09.46451	16 32 18.35	+23 09 09.1	14.2	T	K	D81
C/2015 O1	2017 08 09.81021	16 31 56.57	+23 08 06.0	15.1	N	K	L04
C/2015 O1	2017 08 09.81560	16 31 56.26	+23 08 05.2	15.1	N	K	L04
C/2015 O1	2017 08 09.82128	16 31 55.88	+23 08 04.1	15.1	N	K	L04
C/2015 O1	2017 08 09.97239	16 31 46.42	+23 07 36.0	14.9	N		I81
C/2015 O1	2017 08 09.97605	16 31 46.18	+23 07 35.5	15.0	N		I81
C/2015 O1	2017 08 09.97750	16 31 46.10	+23 07 35.2	14.9	N		I81
C/2015 O1	2017 08 10.32121	16 31 24.75	+23 06 32.8	15.4	T		T05
C/2015 O1	2017 08 10.33029	16 31 24.18	+23 06 31.0	15.4	T		T05
C/2015 O1	2017 08 10.33899	16 31 23.62	+23 06 29.4	15.4	T		T05
C/2015 O1	2017 08 10.35352	16 31 22.70	+23 06 26.8	15.5	T		T05
C/2015 O1	2017 08 10.90587	16 30 48.83	+23 04 42.5	15.3	N	9	G40
C/2015 O1	2017 08 10.91519	16 30 48.24	+23 04 40.1	16.1	N		K02
C/2015 O1	2017 08 10.91612	16 30 48.16	+23 04 41.1	15.3	N	9	G40
C/2015 O1	2017 08 10.91729	16 30 48.12	+23 04 40.6	15.3	N	9	G40
C/2015 O1	2017 08 10.91954	16 30 47.96	+23 04 39.0	16.1	N		K02
C/2015 O1	2017 08 10.92075	16 30 47.89	+23 04 40.4	15.3	N	9	G40
C/2015 O1	2017 08 10.92389	16 30 47.69	+23 04 38.7	16.1	N		K02
C/2015 O1	2017 08 10.96612	16 30 45.09	+23 04 31.8	15.1	N		J22
C/2015 O1	2017 08 10.97087	16 30 44.80	+23 04 30.2	15.1	N		J22
C/2015 O1	2017 08 12.29164	16 29 25.51	+23 00 15.8	15.2	T		T08
C/2015 O1	2017 08 12.30054	16 29 24.97	+23 00 14.0	15.2	T		T08
C/2015 O1	2017 08 12.30948	16 29 24.44	+23 00 12.2	15.2	T		T08
C/2015 O1	2017 08 12.31844	16 29 23.90	+23 00 10.4	15.2	T		T08
C/2015 O1	2017 08 12.49681	16 29 13.40	+22 59 34.8				900
C/2015 O1	2017 08 12.50395	16 29 12.98	+22 59 33.4	14.2	T		900
C/2015 O1	2017 08 12.84874	16 28 52.77	+22 58 24.2	15.9	N	K	160
C/2015 O1	2017 08 12.85181	16 28 52.66	+22 58 23.6	15.9	N	K	160
C/2015 O1	2017 08 12.85488	16 28 52.45	+22 58 22.6	15.8	N	K	160
C/2015 O1	2017 08 12.90260	16 28 49.65	+22 58 13.3	15.2	N	K	A77
C/2015 O1	2017 08 12.91041	16 28 49.19	+22 58 11.7	15.3	N	K	A77
C/2015 O1	2017 08 12.91827	16 28 48.71	+22 58 10.1	15.4	N	K	A77
C/2015 O1	2017 08 13.88728	16 27 52.96	+22 54 53.5	14.7	T		Z43
C/2015 O1	2017 08 13.90768	16 27 51.77	+22 54 49.2	15.1	N	K	K24
C/2015 O1	2017 08 13.91018	16 27 51.66	+22 54 48.8	14.8	T		Z43
C/2015 O1	2017 08 13.91417	16 27 51.47	+22 54 47.6	16.0	N		K02
C/2015 O1	2017 08 13.92035	16 27 51.10	+22 54 46.5	15.7	N		K02
C/2015 O1	2017 08 13.92653	16 27 50.75	+22 54 45.2	15.7	N		K02
C/2015 O1	2017 08 13.94248	16 27 49.83	+22 54 42.1	14.5	T		Z43
C/2015 O1	2017 08 13.96343	16 27 48.62	+22 54 37.2	15.2	N	K	K24
C/2015 O1	2017 08 14.28437	16 27 30.52	+22 53 32.9	15.4	T		T05
C/2015 O1	2017 08 14.28593	16 27 30.43	+22 53 32.5	15.4	T		T05
C/2015 O1	2017 08 14.29387	16 27 29.97	+22 53 30.8	15.4	T		T05
C/2015 O1	2017 08 14.30175	16 27 29.52	+22 53 29.3	15.4	T		T05
C/2015 O1	2017 08 14.31590	16 27 28.73	+22 53 26.1	15.5	T		T05
C/2015 O1	2017 08 14.32375	16 27 28.28	+22 53 24.4	15.5	T		T05
C/2015 O1	2017 08 14.33150	16 27 27.84	+22 53 22.8	15.5	T		T05
C/2015 O1	2017 08 14.33986	16 27 27.35	+22 53 21.2	15.5	T		T05
C/2015 O1	2017 08 14.82106	16 27 00.48	+22 51 40.8	15.3	N	K	A71
C/2015 O1	2017 08 14.82635	16 27 00.18	+22 51 39.3	15.3	N	K	A71
C/2015 O1	2017 08 14.83552	16 26 59.73	+22 51 36.8	16.0	N	K	160
C/2015 O1	2017 08 14.83894	16 26 59.54	+22 51 36.1	16.0	N	K	160
C/2015 O1	2017 08 14.84237	16 26 59.35	+22 51 35.4	16.0	N	K	160
C/2015 O1	2017 08 14.84777	16 26 59.05	+22 51 34.3	15.4	N	K	A77
C/2015 O1	2017 08 14.84889	16 26 58.95	+22 51 33.7	16.6	N		C47
C/2015 O1	2017 08 14.85221	16 26 58.82	+22 51 32.7	17.0	N		C47
C/2015 O1	2017 08 14.85375	16 26 58.70	+22 51 33.3	15.2	N		C23
C/2015 O1	2017 08 14.85431	16 26 58.69	+22 51 33.2	15.1	N		C86
C/2015 O1	2017 08 14.85710	16 26 58.52	+22 51 32.7	15.4	N	K	A77
C/2015 O1	2017 08 14.85735	16 26 58.52	+22 51 32.4	15.2	N		C86
C/2015 O1	2017 08 14.85824	16 26 58.43	+22 51 32.1	15.5	N		C23
C/2015 O1	2017 08 14.85959	16 26 58.36	+22 51 32.1	16.8	N		C47
C/2015 O1	2017 08 14.86198	16 26 58.21	+22 51 31.4	15.6	N		C23
C/2015 O1	2017 08 14.86328	16 26 58.18	+22 51 30.8	16.1	N		C47
C/2015 O1	2017 08 14.86338	16 26 58.19	+22 51 30.8	15.1	N		C86
C/2015 O1	2017 08 14.86643	16 26 58.03	+22 51 30.4	13.9	T	K	A77
C/2015 O1	2017 08 14.86697	16 26 57.97	+22 51 30.2	15.9	N		C47
C/2015 O1	2017 08 14.87066	16 26 57.76	+22 51 29.0	16.6	N		C47
C/2015 O1	2017 08 14.87435	16 26 57.56	+22 51 28.4	17.0	N		C47
C/2015 O1	2017 08 15.85087	16 26 04.15	+22 48 02.1	15.0	N		Z55
C/2015 O1	2017 08 15.85176	16 26 04.03	+22 48 01.6	15.1	N		Z55
C/2015 O1	2017 08 15.85325	16 26 04.02	+22 48 01.8	15.1	N		Z55
C/2015 O1	2017 08 15.85385	16 26 03.93	+22 48 01.2	15.0	N		Z55
C/2015 O1	2017 08 15.91007	16 26 00.87	+22 47 48.4	16.1	N		K02
C/2015 O1	2017 08 15.91471	16 26 00.62	+22 47 47.5	15.7	N		K02
C/2015 O1	2017 08 15.91934	16 26 00.36	+22 47 46.2	16.1	N		K02
C/2015 O1	2017 08 16.25897	16 25 42.14	+22 46 34.9	15.6	T		T08
C/2015 O1	2017 08 16.26994	16 25 41.54	+22 46 32.4	15.5	T		T08
C/2015 O1	2017 08 16.27828	16 25 41.09	+22 46 30.6	15.5	T		T08
C/2015 O1	2017 08 16.28522	16 25 40.71	+22 46 29.1	15.6	T		T08
C/2015 O1	2017 08 16.82304	16 25 12.17	+22 44 31.4	16.3	N	K	160
C/2015 O1	2017 08 16.82579	16 25 12.05	+22 44 30.4	16.2	N	K	160
C/2015 O1	2017 08 16.82841	16 25 11.87	+22 44 30.0	16.3	N	K	160
C/2015 O1	2017 08 16.84661	16 25 10.93	+22 44 25.8	16.0	N		C47
C/2015 O1	2017 08 16.85030	16 25 10.73	+22 44 24.9	16.3	N		C47

C/2015 O1	2017 08 16.85436	16 25 10.51	+22 44 23.9	16.8	N	C47
C/2015 O1	2017 08 16.85842	16 25 10.31	+22 44 22.8	16.6	N	C47
C/2015 O1	2017 08 16.86248	16 25 10.08	+22 44 22.0	16.7	N	C47
C/2015 O1	2017 08 16.86563	16 25 09.94	+22 44 21.6	15.1	N	C86
C/2015 O1	2017 08 16.86691	16 25 09.85	+22 44 21.0	16.4	N	C47
C/2015 O1	2017 08 16.86866	16 25 09.78	+22 44 21.3	15.1	N	C86
C/2015 O1	2017 08 16.87473	16 25 09.44	+22 44 21.1	15.1	N	C86
C/2015 O1	2017 08 16.91869	16 25 07.12	+22 44 10.0	15.1	N	Z50
C/2015 O1	2017 08 16.92145	16 25 06.96	+22 44 09.5	15.1	N	Z50
C/2015 O1	2017 08 16.92944	16 25 06.58	+22 44 07.5	15.2	N	Z50
C/2015 O1	2017 08 17.68995	16 24 26.99	+22 41 21.4	16.0	N	C97
C/2015 O1	2017 08 17.74658	16 24 24.05	+22 41 08.3	16.0	N	C97
C/2015 O1	2017 08 17.85691	16 24 18.43	+22 40 43.0	16.3	N	K 160
C/2015 O1	2017 08 17.85966	16 24 18.28	+22 40 42.3	16.3	N	K 160
C/2015 O1	2017 08 17.86243	16 24 18.10	+22 40 41.8	16.4	N	K 160
C/2015 O1	2017 08 17.98793	16 24 11.70	+22 40 13.5	15.1	N	J22
C/2015 O1	2017 08 17.99263	16 24 11.39	+22 40 13.0	15.1	N	J22
C/2015 O1	2017 08 17.99418	16 24 11.31	+22 40 13.0	15.1	N	J22
C/2015 O1	2017 08 18.29348	16 23 56.15	+22 39 06.5	15.8	T	T05
C/2015 O1	2017 08 18.30251	16 23 55.68	+22 39 04.5	15.8	T	T05
C/2015 O1	2017 08 18.31167	16 23 55.21	+22 39 02.4	15.8	T	T05
C/2015 O1	2017 08 18.32056	16 23 54.75	+22 39 00.3	15.9	T	T05
C/2015 O1	2017 08 18.83408	16 23 29.02	+22 37 03.8	16.1	N	K 160
C/2015 O1	2017 08 18.83687	16 23 28.88	+22 37 03.1	16.1	N	K 160
C/2015 O1	2017 08 18.83966	16 23 28.73	+22 37 02.6	16.3	N	K 160
C/2015 O1	2017 08 18.85478	16 23 27.97	+22 36 59.1	15.5	N	C23
C/2015 O1	2017 08 18.86301	16 23 27.55	+22 36 57.3	15.2	N	C23
C/2015 O1	2017 08 18.87574	16 23 26.91	+22 36 54.4	15.2	N	C23
C/2015 O1	2017 08 18.89159	16 23 26.12	+22 36 50.4	13.2	T	Z43
C/2015 O1	2017 08 18.91559	16 23 24.92	+22 36 45.2	13.4	T	Z43
C/2015 O1	2017 08 18.93858	16 23 23.76	+22 36 40.0	14.1	T	Z43
C/2015 O1	2017 08 19.85472	16 22 38.83	+22 33 11.1	15.9	N	K97
C/2015 O1	2017 08 19.87096	16 22 38.03	+22 33 07.4	15.9	N	K97
C/2015 O1	2017 08 19.89307	16 22 36.96	+22 33 02.2	16.0	N	K97
C/2015 O1	2017 08 20.84083	16 21 51.73	+22 29 23.2	15.9	N	K97
C/2015 O1	2017 08 20.85985	16 21 50.84	+22 29 18.8	15.7	N	K97
C/2015 O1	2017 08 20.88816	16 21 49.46	+22 29 12.0	15.8	N	K97
C/2015 O1	2017 08 20.89810	16 21 48.97	+22 29 10.2	15.1	N	J01
C/2015 O1	2017 08 20.90169	16 21 48.81	+22 29 08.8	15.1	N	J01
C/2015 O1	2017 08 20.90527	16 21 48.64	+22 29 07.9	15.1	N	J01
C/2015 O1	2017 08 21.68422	16 21 12.43	+22 26 06.4	16.0	N	C97
C/2015 O1	2017 08 21.72048	16 21 10.73	+22 25 58.2	16.0	N	C97
C/2015 O1	2017 08 21.76896	16 21 08.46	+22 25 46.2	16.0	N	C97
C/2015 O1	2017 08 21.82356	16 21 06.08	+22 25 33.1	16.3	N	K 160
C/2015 O1	2017 08 21.82634	16 21 05.92	+22 25 32.5	16.4	N	K 160
C/2015 O1	2017 08 21.82913	16 21 05.80	+22 25 32.1	16.4	N	K 160
C/2015 O1	2017 08 21.91945	16 21 01.64	+22 25 10.4	14.0	T	Z43
C/2015 O1	2017 08 21.94214	16 21 00.59	+22 25 05.0	14.2	T	Z43
C/2015 O1	2017 08 22.82582	16 20 20.85	+22 21 34.9	16.8	N	C47
C/2015 O1	2017 08 22.82914	16 20 20.71	+22 21 34.8	16.9	N	C47
C/2015 O1	2017 08 22.83283	16 20 20.56	+22 21 33.8	16.0	N	C47
C/2015 O1	2017 08 22.83513	16 20 20.48	+22 21 33.4	16.0	N	K 160
C/2015 O1	2017 08 22.83652	16 20 20.40	+22 21 32.9	16.1	N	C47
C/2015 O1	2017 08 22.83787	16 20 20.36	+22 21 32.7	16.0	N	K 160
C/2015 O1	2017 08 22.84021	16 20 20.23	+22 21 32.0	16.8	N	C47
C/2015 O1	2017 08 22.84060	16 20 20.20	+22 21 32.3	16.4	N	K 160
C/2015 O1	2017 08 22.84759	16 20 19.89	+22 21 30.2	16.8	N	C47
C/2015 O1	2017 08 22.95912	16 20 14.92	+22 21 04.1	14.8	N	I81
C/2015 O1	2017 08 22.96597	16 20 14.63	+22 21 02.2	15.1	N	I81
C/2015 O1	2017 08 22.97165	16 20 14.38	+22 21 00.8	14.9	N	I81
C/2015 O1	2017 08 23.79607	16 19 38.40	+22 17 44.3	15.3	N	K A71
C/2015 O1	2017 08 23.79938	16 19 38.29	+22 17 43.6	15.2	N	K A71
C/2015 O1	2017 08 23.80266	16 19 38.14	+22 17 42.3	15.2	N	K A71
C/2015 O1	2017 08 23.80553	16 19 37.99	+22 17 42.1	15.3	N	K A71
C/2015 O1	2017 08 23.80799	16 19 37.90	+22 17 41.5	15.2	N	K A71
C/2015 O1	2017 08 23.81370	16 19 37.71	+22 17 39.1	16.4	N	C47
C/2015 O1	2017 08 23.81739	16 19 37.50	+22 17 38.6	16.9	N	C47
C/2015 O1	2017 08 23.82145	16 19 37.35	+22 17 37.3	17.0	N	C47
C/2015 O1	2017 08 23.82551	16 19 37.18	+22 17 36.3	16.8	N	C47
C/2015 O1	2017 08 23.82957	16 19 37.01	+22 17 35.0	16.8	N	C47
C/2015 O1	2017 08 23.83362	16 19 36.83	+22 17 34.3	15.7	N	C47
C/2015 O1	2017 08 24.14536	16 19 23.45	+22 16 19.5	14.9	T	V83
C/2015 O1	2017 08 24.15302	16 19 23.13	+22 16 17.9	15.1	T	V83
C/2015 O1	2017 08 24.16104	16 19 22.78	+22 16 15.5	14.9	T	V83
C/2015 O1	2017 08 24.16888	16 19 22.37	+22 16 12.0	17.0	T	V83
C/2015 O1	2017 08 24.18105	16 19 21.95	+22 16 10.8	14.8	T	V83
C/2015 O1	2017 08 24.19082	16 19 21.49	+22 16 08.7	15.3	T	V83
C/2015 O1	2017 08 24.23670	16 19 19.60	+22 15 58.6	15.5	T	T08
C/2015 O1	2017 08 24.24684	16 19 19.16	+22 15 56.3	14.9	T	T08
C/2015 O1	2017 08 24.25661	16 19 18.73	+22 15 53.9	14.9	T	T08
C/2015 O1	2017 08 24.26490	16 19 18.38	+22 15 51.9	14.9	T	T08
C/2015 O1	2017 08 25.86393	16 18 12.22	+22 09 22.0	15.3	N	970
C/2015 O1	2017 08 25.86829	16 18 12.03	+22 09 20.9	15.1	N	970
C/2015 O1	2017 08 25.87316	16 18 11.87	+22 09 20.2	15.3	N	Z50
C/2015 O1	2017 08 25.87632	16 18 11.73	+22 09 19.7	15.2	N	Z50
C/2015 O1	2017 08 25.88262	16 18 11.47	+22 09 18.0	15.2	N	Z50
C/2015 O1	2017 08 26.51973	16 17 46.05	+22 06 42.5			K 367
C/2015 O1	2017 08 26.52095	16 17 46.00	+22 06 42.0			K 367
C/2015 O1	2017 08 26.52257	16 17 45.93	+22 06 41.6	14.8	T	K 367
C/2015 O1	2017 08 27.83290	16 16 55.43	+22 01 18.5	15.3	N	C23
C/2015 O1	2017 08 27.83589	16 16 55.30	+22 01 18.1	15.4	N	C23
C/2015 O1	2017 08 27.83889	16 16 55.19	+22 01 17.2	15.2	N	C23
C/2015 O1	2017 08 28.86568	16 16 17.18	+21 57 02.6	15.9	N	K97
C/2015 O1	2017 08 28.88197	16 16 16.57	+21 56 58.5	15.9	N	K97
C/2015 O1	2017 08 28.89233	16 16 16.19	+21 56 55.9	15.8	N	K97
C/2015 O1	2017 08 28.89643	16 16 15.99	+21 56 54.8	15.3	N	I81
C/2015 O1	2017 08 28.90069	16 16 15.85	+21 56 54.1	14.9	N	I81
C/2015 O1	2017 08 28.90353	16 16 15.74	+21 56 53.3	14.9	N	I81
C/2015 O1	2017 08 29.86746	16 15 41.35	+21 52 53.7	15.8	N	K97
C/2015 O1	2017 08 29.89540	16 15 40.37	+21 52 46.3	15.9	N	K97
C/2015 O1	2017 08 29.91160	16 15 39.79	+21 52 42.5	16.1	N	K97
C/2015 O1	2017 08 29.94167	16 15 38.69	+21 52 35.1	14.9	N	I81
C/2015 O1	2017 08 29.94615	16 15 38.54	+21 52 34.1	14.9	N	I81
C/2015 O1	2017 08 29.95042	16 15 38.39	+21 52 33.0	14.9	N	I81
C/2015 O1	2017 08 30.24047	16 15 28.31	+21 51 21.8	14.8	T	T05
C/2015 O1	2017 08 30.24743	16 15 28.07	+21 51 20.1	14.9	T	T05

C/2015 O1	2017 08 30.25233	16 15 27.89	+21 51 18.9	14.8	T	T05
C/2015 O1	2017 08 30.25404	16 15 27.83	+21 51 18.4	14.8	T	T05
C/2015 O1	2017 08 30.53475	16 15 18.11	+21 50 07.9			900
C/2015 O1	2017 08 30.54154	16 15 17.88	+21 50 06.3	14.0	T	900
C/2015 O1	2017 08 31.24739	16 14 54.113	+21 47 10.40	16.6	T	F51
C/2015 O1	2017 08 31.25775	16 14 53.749	+21 47 07.71	16.7	T	F51
C/2015 O1	2017 08 31.26820	16 14 53.402	+21 47 05.15	16.5	T	F51
C/2015 O1	2017 08 31.27860	16 14 53.035	+21 47 02.46	16.5	T	F51
C/2015 O1	2017 09 01.23833	16 14 21.60	+21 43 03.0	14.9	T	T08
C/2015 O1	2017 09 01.23882	16 14 21.58	+21 43 03.0	14.9	T	T08
C/2015 O1	2017 09 01.24234	16 14 21.47	+21 43 02.0	14.9	T	T08
C/2015 O1	2017 09 01.25483	16 14 21.05	+21 42 58.8	14.9	T	T08
C/2015 O1	2017 09 01.85381	16 14 02.05	+21 40 27.8	14.8	N	585
C/2015 O1	2017 09 01.85452	16 14 01.97	+21 40 27.9	14.8	N	585
C/2015 O1	2017 09 01.85522	16 14 01.97	+21 40 27.8	14.8	N	585
C/2015 O1	2017 09 01.85593	16 14 01.95	+21 40 27.4	15.0	N	585
C/2015 O1	2017 09 01.85664	16 14 01.95	+21 40 27.1	14.8	N	585
C/2015 O1	2017 09 01.85735	16 14 01.92	+21 40 27.4	14.8	N	585
C/2015 O1	2017 09 01.86059	16 14 01.81	+21 40 26.4	14.9	N	585
C/2015 O1	2017 09 01.86130	16 14 01.80	+21 40 25.4	14.8	N	585
C/2015 O1	2017 09 01.86202	16 14 01.77	+21 40 25.5	14.9	N	585
C/2015 O1	2017 09 01.86273	16 14 01.73	+21 40 25.7	14.9	N	585
C/2015 O1	2017 09 01.86344	16 14 01.70	+21 40 26.4	14.9	N	585
C/2015 O1	2017 09 01.86414	16 14 01.69	+21 40 25.1	14.9	N	585
C/2015 O1	2017 09 01.86485	16 14 01.67	+21 40 25.4	15.0	N	585
C/2015 O1	2017 09 01.86556	16 14 01.68	+21 40 24.9	15.0	N	585
C/2015 O1	2017 09 01.86627	16 14 01.62	+21 40 25.2	14.8	N	585
C/2015 O1	2017 09 01.86698	16 14 01.62	+21 40 24.8	14.9	N	585
C/2015 O1	2017 09 01.86769	16 14 01.58	+21 40 24.5	14.8	N	585
C/2015 O1	2017 09 01.96212	16 13 58.64	+21 40 00.8	14.8	N	I81
C/2015 O1	2017 09 01.96310	16 13 58.61	+21 39 59.9	14.8	N	I81
C/2015 O1	2017 09 01.96426	16 13 58.57	+21 40 00.2	15.0	N	I81
C/2015 O1	2017 09 02.91111	16 13 29.54	+21 36 03.4	15.8	N	K02
C/2015 O1	2017 09 02.91575	16 13 29.43	+21 36 01.7	15.9	N	K02
C/2015 O1	2017 09 02.92347	16 13 29.17	+21 35 59.9	15.7	N	K02
C/2015 O1	2017 09 02.97294	16 13 27.67	+21 35 47.9	14.9	N	I81
C/2015 O1	2017 09 02.98779	16 13 27.21	+21 35 43.9	15.4	N	I81
C/2015 O1	2017 09 02.99190	16 13 27.08	+21 35 42.4	15.4	N	I81
C/2015 O1	2017 09 03.25034	16 13 19.38	+21 34 39.3	14.8	T	T05
C/2015 O1	2017 09 03.25638	16 13 19.20	+21 34 37.7	14.8	T	T05
C/2015 O1	2017 09 03.25999	16 13 19.11	+21 34 37.2	14.9	T	T05
C/2015 O1	2017 09 03.26513	16 13 18.94	+21 34 35.5	14.7	T	T05
C/2015 O1	2017 09 03.26883	16 13 18.84	+21 34 34.9	14.9	T	T05
C/2015 O1	2017 09 03.27379	16 13 18.67	+21 34 33.4	14.8	T	T05
C/2015 O1	2017 09 03.27739	16 13 18.59	+21 34 32.7	14.9	T	T05
C/2015 O1	2017 09 03.28589	16 13 18.38	+21 34 30.2	15.9	T	T05
C/2015 O1	2017 09 03.45367	16 13 13.38	+21 33 48.4	14.3	T	349
C/2015 O1	2017 09 03.45868	16 13 13.23	+21 33 47.3			349
C/2015 O1	2017 09 04.83700	16 12 33.80	+21 28 02.1	15.1	N	C86
C/2015 O1	2017 09 04.84447	16 12 33.59	+21 28 00.1	15.1	N	C86
C/2015 O1	2017 09 04.84818	16 12 33.53	+21 27 59.3	15.1	N	C86
C/2015 O1	2017 09 04.96079	16 12 30.35	+21 27 31.0	15.1	N	I81
C/2015 O1	2017 09 04.97299	16 12 30.03	+21 27 27.7	14.8	N	I81
C/2015 O1	2017 09 04.97517	16 12 29.95	+21 27 27.6	14.6	N	I81
C/2015 O1	2017 09 05.87387	16 12 05.62	+21 23 43.4	14.8	N	I81
C/2015 O1	2017 09 05.87529	16 12 05.58	+21 23 42.9	14.9	N	I81
C/2015 O1	2017 09 05.89078	16 12 05.12	+21 23 39.1	15.2	N	I81
C/2015 O1	2017 09 07.85328	16 11 15.31	+21 15 31.5	14.8	N	585
C/2015 O1	2017 09 07.85400	16 11 15.27	+21 15 31.5	14.8	N	585
C/2015 O1	2017 09 07.85471	16 11 15.24	+21 15 31.5	14.8	N	585
C/2015 O1	2017 09 07.85542	16 11 15.24	+21 15 31.0	14.9	N	585
C/2015 O1	2017 09 07.85613	16 11 15.22	+21 15 31.0	14.8	N	585
C/2015 O1	2017 09 07.85684	16 11 15.19	+21 15 30.9	14.8	N	585
C/2015 O1	2017 09 07.85755	16 11 15.17	+21 15 30.6	14.8	N	585
C/2015 O1	2017 09 07.85826	16 11 15.17	+21 15 30.4	15.0	N	585
C/2015 O1	2017 09 07.85897	16 11 15.14	+21 15 30.2	14.8	N	585
C/2015 O1	2017 09 07.85968	16 11 15.12	+21 15 30.0	14.8	N	585
C/2015 O1	2017 09 07.86039	16 11 15.11	+21 15 29.9	14.8	N	585
C/2015 O1	2017 09 07.86110	16 11 15.09	+21 15 29.7	14.8	N	585
C/2015 O1	2017 09 07.86181	16 11 15.08	+21 15 29.5	14.8	N	585
C/2015 O1	2017 09 07.86251	16 11 15.06	+21 15 29.3	14.7	N	585
C/2015 O1	2017 09 07.86322	16 11 15.03	+21 15 29.1	14.9	N	585
C/2015 O1	2017 09 07.86393	16 11 15.02	+21 15 28.9	14.7	N	585
C/2015 O1	2017 09 07.86464	16 11 15.03	+21 15 28.7	14.8	N	585
C/2015 O1	2017 09 07.86535	16 11 14.98	+21 15 28.6	14.7	N	585
C/2015 O1	2017 09 07.86605	16 11 14.98	+21 15 28.7	14.7	N	585
C/2015 O1	2017 09 07.86897	16 11 14.91	+21 15 28.0	15.3	N	9 G40
C/2015 O1	2017 09 07.87550	16 11 14.76	+21 15 26.9	15.2	N	9 G40
C/2015 O1	2017 09 07.88469	16 11 14.53	+21 15 24.5	15.3	N	9 G40
C/2015 O1	2017 09 07.88586	16 11 14.50	+21 15 24.0	15.2	N	9 G40
C/2015 O1	2017 09 08.85576	16 10 51.53	+21 11 24.1	14.9	N	I81
C/2015 O1	2017 09 08.86196	16 10 51.38	+21 11 22.7	15.0	N	I81
C/2015 O1	2017 09 08.86737	16 10 51.24	+21 11 21.5	15.4	N	9 G40
C/2015 O1	2017 09 08.87197	16 10 51.11	+21 11 20.2	15.4	N	9 G40
C/2015 O1	2017 09 08.87311	16 10 51.13	+21 11 20.1	15.3	N	9 G40
C/2015 O1	2017 09 08.87414	16 10 51.08	+21 11 19.4	15.0	N	I81
C/2015 O1	2017 09 08.87938	16 10 50.98	+21 11 19.3	15.3	N	9 G40
C/2015 O1	2017 09 08.88358	16 10 50.88	+21 11 17.6	15.4	N	9 G40
C/2015 O1	2017 09 10.46154	16 10 15.73	+21 04 50.3			K D81
C/2015 O1	2017 09 10.46459	16 10 15.65	+21 04 49.6			K D81
C/2015 O1	2017 09 10.46764	16 10 15.57	+21 04 49.7			K D81
C/2015 O1	2017 09 10.47069	16 10 15.49	+21 04 48.8	14.8	T	K D81
C/2015 O1	2017 09 10.83286	16 10 07.88	+21 03 19.3	15.1	N	C86
C/2015 O1	2017 09 10.83657	16 10 07.85	+21 03 18.2	15.2	N	C86
C/2015 O1	2017 09 10.84398	16 10 07.71	+21 03 17.8	15.1	N	C86
C/2015 O1	2017 09 10.96051	16 10 05.14	+21 02 49.1	15.1	N	J22
C/2015 O1	2017 09 10.96378	16 10 05.11	+21 02 47.4	15.1	N	J22
C/2015 O1	2017 09 10.96697	16 10 05.07	+21 02 46.6	15.1	N	J22
C/2015 O1	2017 09 11.25460	16 09 59.14	+21 01 37.3	14.9	T	T05
C/2015 O1	2017 09 11.26297	16 09 58.96	+21 01 35.3	14.8	T	T05
C/2015 O1	2017 09 11.27034	16 09 58.81	+21 01 33.5	14.8	T	T05
C/2015 O1	2017 09 11.27742	16 09 58.67	+21 01 31.7	14.8	T	T05
C/2015 O1	2017 09 11.84737	16 09 47.21	+20 59 12.7	15.1	N	Z55
C/2015 O1	2017 09 11.84968	16 09 47.17	+20 59 12.2	15.2	N	Z55
C/2015 O1	2017 09 11.85034	16 09 47.15	+20 59 11.5	15.2	N	Z55
C/2015 O1	2017 09 11.85146	16 09 47.13	+20 59 11.5	15.1	N	Z55

C/2015 O1	2017 09 12.80143	16 09 28.76	+20 55 21.9	15.2	N	K A77
C/2015 O1	2017 09 12.80663	16 09 28.66	+20 55 20.7	15.1	N	K A77
C/2015 O1	2017 09 12.81183	16 09 28.58	+20 55 19.7	14.5	T	K A77
C/2015 O1	2017 09 13.88424	16 09 08.97	+20 51 02.1	15.1	N	C86
C/2015 O1	2017 09 13.88799	16 09 08.92	+20 51 01.9	15.1	N	C86
C/2015 O1	2017 09 13.89171	16 09 08.86	+20 51 00.9	15.1	N	C86
C/2015 O1	2017 09 15.47686	16 08 42.16	+20 44 44.6	14.4	T	D95
C/2015 O1	2017 09 15.48117	16 08 42.10	+20 44 43.6			D95
C/2015 O1	2017 09 15.48225	16 08 42.08	+20 44 43.4			D95
C/2015 O1	2017 09 15.80687	16 08 36.98	+20 43 26.7	15.0	N	C23
C/2015 O1	2017 09 15.81211	16 08 36.88	+20 43 25.4	14.9	N	C23
C/2015 O1	2017 09 15.81660	16 08 36.82	+20 43 24.7	14.9	N	C23
C/2015 O1	2017 09 16.82310	16 08 21.56	+20 39 29.1	14.8	N	I81
C/2015 O1	2017 09 16.83518	16 08 21.39	+20 39 26.2	14.9	N	I81
C/2015 O1	2017 09 16.84198	16 08 21.28	+20 39 24.8	14.9	N	I81
C/2015 O1	2017 09 17.82792	16 08 07.36	+20 35 37.0	15.0	N	212
C/2015 O1	2017 09 17.83222	16 08 07.30	+20 35 35.9	15.0	N	212
C/2015 O1	2017 09 17.83797	16 08 07.22	+20 35 34.7	15.0	N	212
C/2015 O1	2017 09 18.89367	16 07 53.41	+20 31 32.9	14.8	N	I81
C/2015 O1	2017 09 18.89628	16 07 53.32	+20 31 32.0	14.8	N	I81
C/2015 O1	2017 09 19.217277	16 07 49.421	+20 30 19.77	15.6	T	29 568
C/2015 O1	2017 09 19.219068	16 07 49.398	+20 30 19.36	15.8	T	29 568
C/2015 O1	2017 09 19.220935	16 07 49.374	+20 30 18.91	16.2	T	29 568
C/2015 O1	2017 09 19.83249	16 07 42.04	+20 28 00.6	14.9	N	I81
C/2015 O1	2017 09 19.83983	16 07 41.96	+20 27 58.8	14.8	N	I81
C/2015 O1	2017 09 19.84693	16 07 41.88	+20 27 57.3	14.8	N	I81
C/2015 O1	2017 09 20.80429	16 07 31.23	+20 24 23.0	15.9	N	K97
C/2015 O1	2017 09 20.81944	16 07 31.00	+20 24 19.9	15.1	N	C23
C/2015 O1	2017 09 20.82243	16 07 30.98	+20 24 19.1	15.1	N	C23
C/2015 O1	2017 09 20.82356	16 07 31.03	+20 24 18.6	16.0	N	K97
C/2015 O1	2017 09 20.82542	16 07 30.95	+20 24 18.6	15.2	N	C23
C/2015 O1	2017 09 20.84578	16 07 30.78	+20 24 13.6	16.1	N	K97
C/2015 O1	2017 09 21.83146	16 07 20.67	+20 20 36.6	14.8	N	I81
C/2015 O1	2017 09 21.83835	16 07 20.59	+20 20 35.1	14.8	N	I81
C/2015 O1	2017 09 21.84545	16 07 20.53	+20 20 33.6	14.9	N	I81
C/2015 O1	2017 09 22.80341	16 07 11.63	+20 17 05.4	15.2	N	B96
C/2015 O1	2017 09 22.80505	16 07 11.62	+20 17 04.7	15.1	N	B96
C/2015 O1	2017 09 22.80830	16 07 11.59	+20 17 04.1	15.1	N	B96
C/2015 O1	2017 09 22.80993	16 07 11.59	+20 17 03.2	15.2	N	B96
C/2015 O1	2017 09 22.81156	16 07 11.60	+20 17 02.8	15.2	N	B96
C/2015 O1	2017 09 22.88072	16 07 10.92	+20 16 50.8	14.7	N	J22
C/2015 O1	2017 09 22.88869	16 07 10.97	+20 16 48.6	14.7	N	J22
C/2015 O1	2017 09 23.78633	16 07 03.43	+20 13 34.0	15.3	N	B96
C/2015 O1	2017 09 23.78796	16 07 03.39	+20 13 33.7	15.3	N	B96
C/2015 O1	2017 09 23.78959	16 07 03.38	+20 13 33.5	15.3	N	B96
C/2015 O1	2017 09 23.79123	16 07 03.36	+20 13 33.3	15.4	N	B96
C/2015 O1	2017 09 23.79287	16 07 03.34	+20 13 33.0	15.3	N	B96
C/2015 O1	2017 09 23.79450	16 07 03.33	+20 13 32.9	15.3	N	B96
C/2015 O1	2017 09 24.78648	16 06 55.89	+20 10 03.4	15.4	N	B96
C/2015 O1	2017 09 24.78811	16 06 55.87	+20 10 03.0	15.3	N	B96
C/2015 O1	2017 09 24.78975	16 06 55.86	+20 10 02.6	15.3	N	B96
C/2015 O1	2017 09 24.79139	16 06 55.85	+20 10 01.9	15.4	N	B96
C/2015 O1	2017 09 24.79302	16 06 55.84	+20 10 01.6	15.4	N	B96
C/2015 O1	2017 09 24.79465	16 06 55.79	+20 10 01.5	15.4	N	B96
C/2015 O1	2017 09 25.77917	16 06 49.37	+20 06 36.8	16.7	N	C47
C/2015 O1	2017 09 25.78434	16 06 49.31	+20 06 35.9	15.9	N	C47
C/2015 O1	2017 09 25.78987	16 06 49.23	+20 06 34.2	16.8	N	C47
C/2015 O1	2017 09 25.80094	16 06 49.21	+20 06 32.1	16.2	N	C47
C/2015 O1	2017 09 25.85226	16 06 48.88	+20 06 22.3	14.4	N	I81
C/2015 O1	2017 09 25.85297	16 06 48.87	+20 06 22.2	14.4	N	I81
C/2015 O1	2017 09 25.85367	16 06 48.86	+20 06 22.0	14.5	N	I81
C/2015 O1	2017 09 25.85437	16 06 48.85	+20 06 21.9	14.4	N	I81
C/2015 O1	2017 09 25.85507	16 06 48.86	+20 06 21.7	14.5	N	I81
C/2015 O1	2017 09 25.85578	16 06 48.86	+20 06 21.6	14.5	N	I81
C/2015 O1	2017 09 25.85648	16 06 48.84	+20 06 21.5	14.4	N	I81
C/2015 O1	2017 09 25.85718	16 06 48.84	+20 06 21.2	14.5	N	I81
C/2015 O1	2017 09 25.85789	16 06 48.84	+20 06 21.3	14.4	N	I81
C/2015 O1	2017 09 25.85859	16 06 48.84	+20 06 21.2	14.4	N	I81
C/2015 O1	2017 09 26.76383	16 06 43.70	+20 03 16.3	14.9	N	K87
C/2015 O1	2017 09 26.77580	16 06 43.62	+20 03 13.7	14.9	N	K87
C/2015 O1	2017 09 26.78778	16 06 43.53	+20 03 10.9	14.9	N	K87

C/2015 T2 (PANSTARRS)

C/2015 T2	2017 08 17.98717	01 22 11.84	+43 19 46.9	19.6	T	K 461
C/2015 T2	2017 08 17.99307	01 22 11.59	+43 19 48.5	19.0	T	K 461
C/2015 T2	2017 08 18.99686	01 21 22.75	+43 24 42.3	19.3	T	K 461
C/2015 T2	2017 08 19.00275	01 21 22.45	+43 24 44.1	19.2	T	K 461
C/2015 T2	2017 09 01.49275	01 08 53.958	+44 20 43.94	19.5	T	F51
C/2015 T2	2017 09 01.50450	01 08 53.223	+44 20 46.23	19.7	T	F51
C/2015 T2	2017 09 01.51624	01 08 52.500	+44 20 48.82	19.6	T	F51
C/2015 T2	2017 09 01.52801	01 08 51.763	+44 20 51.21	19.5	T	F51
C/2015 T2	2017 09 06.57852	01 03 30.431	+44 36 19.10	20.6	T	F51
C/2015 T2	2017 09 06.59064	01 03 29.638	+44 36 21.38	20.4	T	F51
C/2015 T2	2017 09 06.60306	01 03 28.809	+44 36 22.93	20.3	T	F51
C/2015 T2	2017 09 06.61516	01 03 28.012	+44 36 24.98	20.3	T	F51
C/2015 T2	2017 09 25.82209	00 40 35.60	+45 01 18.6	18.9	T	K 215
C/2015 T2	2017 09 25.82401	00 40 35.45	+45 01 18.4	18.9	T	K 215
C/2015 T2	2017 09 25.82594	00 40 35.30	+45 01 18.3	18.9	T	K 215

C/2015 V1 (PANSTARRS)

C/2015 V1	2016 11 08.97159	03 44 16.70	+59 17 53.3	17.3	N	A24
C/2015 V1	2016 11 08.97230	03 44 16.62	+59 17 53.3	16.8	N	A24
C/2015 V1	2016 11 09.01612	03 44 10.62	+59 17 41.0	17.5	N	A24
C/2015 V1	2016 11 09.01684	03 44 10.44	+59 17 41.1	17.4	N	A24
C/2015 V1	2016 11 29.90455	02 57 45.92	+56 31 25.3	16.7	N	A24
C/2015 V1	2016 11 29.90527	02 57 45.87	+56 31 24.4	16.7	N	A24
C/2015 V1	2016 11 29.94711	02 57 40.70	+56 30 56.4	16.9	N	A24
C/2015 V1	2016 11 29.94783	02 57 40.60	+56 30 56.0	17.1	N	A24
C/2015 V1	2016 11 30.88129	02 55 47.13	+56 20 29.2	16.6	N	A24
C/2015 V1	2016 11 30.88200	02 55 47.04	+56 20 28.8	16.8	N	A24
C/2015 V1	2016 11 30.92326	02 55 42.00	+56 20 00.6	16.5	N	A24
C/2015 V1	2016 11 30.92398	02 55 41.93	+56 20 00.3	16.8	N	A24
C/2015 V1	2016 12 01.88674	02 53 46.37	+56 08 59.0	17.3	N	A24
C/2015 V1	2016 12 01.88747	02 53 46.38	+56 08 58.5	17.1	N	A24
C/2015 V1	2016 12 01.92889	02 53 41.32	+56 08 30.0	17.3	N	A24
C/2015 V1	2016 12 01.92961	02 53 41.26	+56 08 29.7	17.2	N	A24
C/2015 V1	2017 07 03.45439	02 44 21.22	+31 29 42.0			5 U69

C/2015 V1	2017 07 03.45735	02 44 21.24	+31 29 41.5	15.9	T	5	U69
C/2015 V1	2017 07 11.71191	02 45 00.73	+31 14 46.6				349
C/2015 V1	2017 07 11.72431	02 45 00.77	+31 14 45.3	15.8	T		349
C/2015 V1	2017 07 13.09774	02 45 02.24	+31 12 00.0	16.4	N	K	C23
C/2015 V1	2017 07 13.10223	02 45 02.43	+31 11 57.7	16.4	N	K	C23
C/2015 V1	2017 07 15.08988	02 45 01.67	+31 07 48.7	17.5	N	K	160
C/2015 V1	2017 07 15.09240	02 45 01.60	+31 07 48.3	17.4	N	K	160
C/2015 V1	2017 07 15.09477	02 45 01.62	+31 07 47.8	17.3	N	K	160
C/2015 V1	2017 07 17.09941	02 44 57.66	+31 03 24.6	17.8	N	K	160
C/2015 V1	2017 07 17.10177	02 44 57.64	+31 03 24.4	17.8	N	K	160
C/2015 V1	2017 07 17.10414	02 44 57.60	+31 03 24.1	17.4	N	K	160
C/2015 V1	2017 07 18.03854	02 44 54.45	+31 01 15.7	16.6	N	K	585
C/2015 V1	2017 07 18.03925	02 44 54.45	+31 01 16.0	16.4	N	K	585
C/2015 V1	2017 07 18.03997	02 44 54.51	+31 01 15.9	16.6	N	K	585
C/2015 V1	2017 07 18.04069	02 44 54.49	+31 01 15.7	16.6	N	K	585
C/2015 V1	2017 07 18.04141	02 44 54.49	+31 01 15.4	16.0	N	K	585
C/2015 V1	2017 07 18.04214	02 44 54.47	+31 01 15.8	16.2	N	K	585
C/2015 V1	2017 07 18.04532	02 44 54.42	+31 01 14.8	15.9	N	K	585
C/2015 V1	2017 07 18.04696	02 44 54.49	+31 01 14.7	15.7	N	K	585
C/2015 V1	2017 07 18.07646	02 44 54.44	+31 01 10.7	17.2	N	K	160
C/2015 V1	2017 07 18.07927	02 44 54.37	+31 01 10.1	16.5	N	K	160
C/2015 V1	2017 07 18.08208	02 44 54.31	+31 01 09.2	17.3	N	K	160
C/2015 V1	2017 07 19.08300	02 44 50.12	+30 58 49.4	17.5	N	K	160
C/2015 V1	2017 07 19.08537	02 44 50.11	+30 58 49.1	17.5	N	K	160
C/2015 V1	2017 07 19.08759	02 44 50.10	+30 58 48.6	17.4	N	K	160
C/2015 V1	2017 07 21.20750	02 44 38.15	+30 53 39.7	16.5	N		J22
C/2015 V1	2017 07 21.20907	02 44 38.14	+30 53 39.7	16.5	N		J22
C/2015 V1	2017 07 21.21225	02 44 38.11	+30 53 39.5	16.5	N		J22
C/2015 V1	2017 07 26.69269	02 43 47.09	+30 38 54.7	15.4	T		D95
C/2015 V1	2017 07 26.69485	02 43 47.04	+30 38 54.3				D95
C/2015 V1	2017 07 26.70133	02 43 46.97	+30 38 53.0				D95
C/2015 V1	2017 07 29.31021	02 43 11.89	+30 31 05.4	16.6	N		W96
C/2015 V1	2017 07 29.33271	02 43 11.55	+30 31 01.9	16.6	N		W96
C/2015 V1	2017 07 30.08373	02 43 00.10	+30 28 37.1	16.5	N		J22
C/2015 V1	2017 07 30.08696	02 43 00.07	+30 28 37.0	16.5	N		J22
C/2015 V1	2017 07 30.09017	02 43 00.02	+30 28 36.2	16.5	N		J22
C/2015 V1	2017 07 31.00356	02 42 45.22	+30 25 38.1	16.8	N		C36
C/2015 V1	2017 07 31.00620	02 42 45.19	+30 25 38.4	16.5	N		C36
C/2015 V1	2017 07 31.00707	02 42 45.06	+30 25 38.8	16.7	N		C36
C/2015 V1	2017 07 31.00795	02 42 45.10	+30 25 40.1	16.7	N		C36
C/2015 V1	2017 07 31.04580	02 42 44.52	+30 25 31.4	16.9	N		K02
C/2015 V1	2017 07 31.05042	02 42 44.45	+30 25 29.8	16.8	N		K02
C/2015 V1	2017 07 31.05505	02 42 44.40	+30 25 29.0	16.8	N		K02
C/2015 V1	2017 08 01.75910	02 42 14.26	+30 19 48.1			K	367
C/2015 V1	2017 08 01.76072	02 42 14.23	+30 19 47.8			K	367
C/2015 V1	2017 08 01.76193	02 42 14.20	+30 19 47.6	15.9	T	K	367
C/2015 V1	2017 08 02.08191	02 42 08.23	+30 18 41.2	16.5	N		B54
C/2015 V1	2017 08 03.08319	02 41 48.67	+30 15 10.9	16.5	N		B54
C/2015 V1	2017 08 03.08628	02 41 48.61	+30 15 10.4	16.5	N		B54
C/2015 V1	2017 08 06.00642	02 40 45.17	+30 04 22.6	16.5	N		I81
C/2015 V1	2017 08 06.01050	02 40 44.98	+30 04 20.3	16.0	N		I81
C/2015 V1	2017 08 06.01412	02 40 44.88	+30 04 19.4	16.1	N		I81
C/2015 V1	2017 08 06.04001	02 40 44.28	+30 04 14.0	16.5	N		B96
C/2015 V1	2017 08 06.04164	02 40 44.23	+30 04 13.8	16.6	N		B96
C/2015 V1	2017 08 06.04328	02 40 44.18	+30 04 13.6	16.5	N		B96
C/2015 V1	2017 08 06.04491	02 40 44.10	+30 04 13.2	16.1	N		B96
C/2015 V1	2017 08 06.04654	02 40 44.08	+30 04 12.9	16.3	N		B96
C/2015 V1	2017 08 06.04818	02 40 44.05	+30 04 12.7	16.4	N		B96
C/2015 V1	2017 08 08.59634	02 39 40.33	+29 54 03.0	16.4	T		T08
C/2015 V1	2017 08 08.60478	02 39 40.05	+29 54 01.1	16.3	T		T08
C/2015 V1	2017 08 08.61377	02 39 39.81	+29 53 58.1	16.3	T		T08
C/2015 V1	2017 08 08.62317	02 39 39.58	+29 53 56.4	16.9	T		T08
C/2015 V1	2017 08 11.03040	02 38 32.14	+29 43 35.2	17.2	N	K	K02
C/2015 V1	2017 08 11.03736	02 38 31.86	+29 43 33.2	17.0	N	K	K02
C/2015 V1	2017 08 12.60856	02 37 43.92	+29 36 28.6	16.4	T		T08
C/2015 V1	2017 08 12.61376	02 37 43.74	+29 36 27.0	16.4	T		T08
C/2015 V1	2017 08 12.61865	02 37 43.60	+29 36 25.7	16.5	T		T08
C/2015 V1	2017 08 12.62302	02 37 43.45	+29 36 24.6	16.5	T		T08
C/2015 V1	2017 08 12.62892	02 37 43.25	+29 36 23.4	16.6	T		T08
C/2015 V1	2017 08 14.01636	02 36 58.31	+29 29 47.2	16.3	N		C10
C/2015 V1	2017 08 14.03083	02 36 57.83	+29 29 43.7	16.5	N		C10
C/2015 V1	2017 08 14.04606	02 36 57.34	+29 29 39.7	16.5	N		C10
C/2015 V1	2017 08 14.62121	02 36 37.86	+29 26 54.2	17.4	T		T05
C/2015 V1	2017 08 14.62444	02 36 37.78	+29 26 52.4	17.3	T		T05
C/2015 V1	2017 08 14.63218	02 36 37.50	+29 26 50.4	17.4	T		T05
C/2015 V1	2017 08 14.63407	02 36 37.44	+29 26 49.5	16.6	T		T05
C/2015 V1	2017 08 15.02700	02 36 23.98	+29 24 52.3	17.3	N	K	C47
C/2015 V1	2017 08 15.03180	02 36 23.85	+29 24 50.6	17.4	N	K	C47
C/2015 V1	2017 08 15.03734	02 36 23.65	+29 24 48.8	17.9	N	K	C47
C/2015 V1	2017 08 15.04324	02 36 23.39	+29 24 48.4	17.7	N	K	C47
C/2015 V1	2017 08 16.03630	02 35 48.44	+29 19 48.8	17.3	N	K	160
C/2015 V1	2017 08 16.03878	02 35 48.36	+29 19 47.8	17.3	N	K	160
C/2015 V1	2017 08 16.04112	02 35 48.28	+29 19 47.1	17.3	N	K	160
C/2015 V1	2017 08 16.07791	02 35 47.00	+29 19 34.9	16.5	N		C23
C/2015 V1	2017 08 16.07813	02 35 46.95	+29 19 35.3	17.1	N		K02
C/2015 V1	2017 08 16.08224	02 35 46.77	+29 19 34.3	16.4	N		C23
C/2015 V1	2017 08 16.08275	02 35 46.74	+29 19 33.9	16.7	N		K02
C/2015 V1	2017 08 16.08657	02 35 46.63	+29 19 32.5	16.4	N		C23
C/2015 V1	2017 08 16.08895	02 35 46.53	+29 19 32.1	16.8	N		K02
C/2015 V1	2017 08 16.60760	02 35 27.68	+29 16 53.8	16.4	T		T08
C/2015 V1	2017 08 16.61602	02 35 27.37	+29 16 51.2	16.4	T		T08
C/2015 V1	2017 08 16.62401	02 35 27.06	+29 16 48.6	16.4	T		T08
C/2015 V1	2017 08 16.63323	02 35 26.72	+29 16 45.5	16.3	T		T08
C/2015 V1	2017 08 16.99602	02 35 13.38	+29 14 50.5	17.8	N		C47
C/2015 V1	2017 08 16.99861	02 35 13.27	+29 14 49.9	17.3	N		C47
C/2015 V1	2017 08 17.00156	02 35 13.20	+29 14 48.9	17.4	N		C47
C/2015 V1	2017 08 17.00451	02 35 13.07	+29 14 48.7	17.7	N		C47
C/2015 V1	2017 08 17.00746	02 35 12.87	+29 14 47.1	17.7	N		C47
C/2015 V1	2017 08 17.00900	02 35 12.89	+29 14 47.0	17.3	N	K	160
C/2015 V1	2017 08 17.01124	02 35 12.80	+29 14 46.4	17.4	N	K	160
C/2015 V1	2017 08 17.01152	02 35 12.82	+29 14 46.0	17.0	N		C47
C/2015 V1	2017 08 17.01384	02 35 12.69	+29 14 45.8	17.5	N	K	160
C/2015 V1	2017 08 17.07181	02 35 10.61	+29 14 28.1	16.3	N		J22
C/2015 V1	2017 08 17.07499	02 35 10.53	+29 14 26.3	16.3	N		J22
C/2015 V1	2017 08 17.07816	02 35 10.38	+29 14 25.7	16.3	N		J22
C/2015 V1	2017 08 18.02988	02 34 34.25	+29 09 22.0	17.3	N	K	160

C/2015 V1	2017 08 18.03268	02 34 34.14	+29 09 21.1	17.3	N	K 160
C/2015 V1	2017 08 18.03549	02 34 34.05	+29 09 20.5	17.2	N	K 160
C/2015 V1	2017 08 18.61178	02 34 11.54	+29 06 14.2	17.1	T	T05
C/2015 V1	2017 08 18.62451	02 34 11.03	+29 06 10.1	17.1	T	T05
C/2015 V1	2017 08 18.63623	02 34 10.56	+29 06 06.0	16.9	T	T05
C/2015 V1	2017 08 19.03587	02 33 54.79	+29 03 53.0	17.3	N	K 160
C/2015 V1	2017 08 19.03862	02 33 54.69	+29 03 52.1	17.4	N	K 160
C/2015 V1	2017 08 19.04083	02 33 54.60	+29 03 51.5	17.6	N	K 160
C/2015 V1	2017 08 20.06767	02 33 13.00	+28 58 08.9	15.2	T	K 104
C/2015 V1	2017 08 20.07878	02 33 12.52	+28 58 03.8	15.5	T	K 104
C/2015 V1	2017 08 21.07056	02 32 30.89	+28 52 18.2	17.3	N	K 160
C/2015 V1	2017 08 21.07336	02 32 30.76	+28 52 17.2	17.4	N	K 160
C/2015 V1	2017 08 21.07616	02 32 30.58	+28 52 16.2	17.5	N	K 160
C/2015 V1	2017 08 22.59292	02 31 24.38	+28 43 14.0	17.0	T	T05
C/2015 V1	2017 08 22.60512	02 31 23.82	+28 43 09.7	17.0	T	T05
C/2015 V1	2017 08 22.61746	02 31 23.28	+28 43 05.0	16.9	T	T05
C/2015 V1	2017 08 22.63009	02 31 22.72	+28 43 00.2	17.0	T	T05
C/2015 V1	2017 08 23.04588	02 31 04.07	+28 40 26.1	16.6	N	K 160
C/2015 V1	2017 08 23.04865	02 31 03.92	+28 40 25.0	17.4	N	K 160
C/2015 V1	2017 08 23.05140	02 31 03.78	+28 40 24.4	17.3	N	K 160
C/2015 V1	2017 08 23.96874	02 30 21.69	+28 34 38.7	17.7	N	C47
C/2015 V1	2017 08 23.97243	02 30 21.50	+28 34 38.2	17.6	N	C47
C/2015 V1	2017 08 23.97649	02 30 21.33	+28 34 37.1	17.9	N	C47
C/2015 V1	2017 08 23.98055	02 30 21.14	+28 34 35.1	17.8	N	C47
C/2015 V1	2017 08 23.98461	02 30 20.95	+28 34 33.4	17.1	N	C47
C/2015 V1	2017 08 23.98867	02 30 20.75	+28 34 32.3	17.9	N	C47
C/2015 V1	2017 08 23.99273	02 30 20.55	+28 34 30.5	17.5	N	C47
C/2015 V1	2017 08 24.07879	02 30 16.51	+28 33 58.0	17.5	N	K 160
C/2015 V1	2017 08 24.08144	02 30 16.38	+28 33 56.9	17.5	N	K 160
C/2015 V1	2017 08 24.08409	02 30 16.26	+28 33 55.8	17.5	N	K 160
C/2015 V1	2017 08 24.11164	02 30 15.03	+28 33 46.0	16.4	N	J22
C/2015 V1	2017 08 24.11481	02 30 14.85	+28 33 44.7	16.4	N	J22
C/2015 V1	2017 08 24.11795	02 30 14.75	+28 33 43.2	16.4	N	J22
C/2015 V1	2017 08 24.58941	02 29 52.45	+28 30 43.9	16.0	T	T08
C/2015 V1	2017 08 24.59914	02 29 52.01	+28 30 40.1	16.1	T	T08
C/2015 V1	2017 08 24.60715	02 29 51.60	+28 30 37.1	16.1	T	T08
C/2015 V1	2017 08 24.61526	02 29 51.22	+28 30 33.9	16.0	T	T08
C/2015 V1	2017 08 26.61950	02 28 13.34	+28 17 17.8	16.3	T	T05
C/2015 V1	2017 08 26.62596	02 28 13.13	+28 17 14.2	15.1	T	D95
C/2015 V1	2017 08 26.62947	02 28 12.82	+28 17 13.7	16.4	T	T05
C/2015 V1	2017 08 26.63029	02 28 12.92	+28 17 12.4			D95
C/2015 V1	2017 08 26.63871	02 28 12.41	+28 17 09.7	16.3	T	T05
C/2015 V1	2017 08 26.63896	02 28 12.46	+28 17 08.9			D95
C/2015 V1	2017 08 29.00214	02 26 09.97	+28 00 33.4	16.1	N	C23
C/2015 V1	2017 08 29.00647	02 26 09.71	+28 00 30.7	16.6	N	C23
C/2015 V1	2017 08 29.01080	02 26 09.47	+28 00 29.5	16.1	N	C23
C/2015 V1	2017 08 30.02940	02 25 14.25	+27 53 00.8	16.1	N	I81
C/2015 V1	2017 08 30.03366	02 25 14.03	+27 52 58.9	16.1	N	I81
C/2015 V1	2017 08 30.03650	02 25 13.87	+27 52 57.6	16.5	N	I81
C/2015 V1	2017 08 30.07558	02 25 11.67	+27 52 40.6	16.2	N	K A77
C/2015 V1	2017 08 30.08128	02 25 11.35	+27 52 38.0	16.2	N	K A77
C/2015 V1	2017 08 30.08695	02 25 11.04	+27 52 35.5	16.2	N	K A77
C/2015 V1	2017 08 30.66058	02 24 39.37	+27 48 17.6			900
C/2015 V1	2017 08 30.66380	02 24 39.18	+27 48 16.2	15.1	T	900
C/2015 V1	2017 08 30.92427	02 24 24.64	+27 46 16.9	18.0	N	K C47
C/2015 V1	2017 08 30.92796	02 24 24.38	+27 46 14.5	17.9	N	K C47
C/2015 V1	2017 08 30.93165	02 24 24.16	+27 46 13.1	18.3	N	K C47
C/2015 V1	2017 08 30.93534	02 24 23.96	+27 46 11.6	17.9	N	K C47
C/2015 V1	2017 08 30.94198	02 24 23.63	+27 46 08.6	17.9	N	K C47
C/2015 V1	2017 08 31.98810	02 23 24.13	+27 38 04.3	16.5	N	C10
C/2015 V1	2017 08 31.99876	02 23 23.50	+27 37 59.6	16.5	N	C10
C/2015 V1	2017 09 01.04786	02 23 20.66	+27 37 37.0	16.5	N	C10
C/2015 V1	2017 09 01.95384	02 22 28.00	+27 30 25.3	16.2	N	J38
C/2015 V1	2017 09 01.95600	02 22 27.83	+27 30 24.1	16.2	N	J38
C/2015 V1	2017 09 01.95816	02 22 27.68	+27 30 23.7	16.2	N	J38
C/2015 V1	2017 09 02.00537	02 22 24.92	+27 30 01.6	16.2	N	I72
C/2015 V1	2017 09 02.01510	02 22 24.28	+27 29 56.0	16.1	N	I81
C/2015 V1	2017 09 02.01794	02 22 24.10	+27 29 54.5	16.1	N	I81
C/2015 V1	2017 09 02.02078	02 22 23.94	+27 29 53.3	16.1	N	I81
C/2015 V1	2017 09 02.05117	02 22 22.23	+27 29 39.5	16.2	N	I72
C/2015 V1	2017 09 02.09725	02 22 19.42	+27 29 17.2	16.3	N	I72
C/2015 V1	2017 09 02.32030	02 22 06.18	+27 27 32.6	16.5	N	W96
C/2015 V1	2017 09 02.34921	02 22 04.42	+27 27 17.4	16.4	N	W96
C/2015 V1	2017 09 02.47145	02 21 57.232	+27 26 16.08	18.0	T	F51
C/2015 V1	2017 09 02.48180	02 21 56.607	+27 26 11.07	17.9	T	F51
C/2015 V1	2017 09 02.49213	02 21 55.988	+27 26 06.04	17.9	T	F51
C/2015 V1	2017 09 02.61678	02 21 48.58	+27 25 04.3	15.5	T	349
C/2015 V1	2017 09 02.62630	02 21 47.99	+27 24 59.8			349
C/2015 V1	2017 09 02.99233	02 21 25.98	+27 21 59.7	16.3	N	C23
C/2015 V1	2017 09 02.99607	02 21 25.76	+27 21 57.8	16.1	N	C23
C/2015 V1	2017 09 03.00056	02 21 25.50	+27 21 55.0	16.4	N	C23
C/2015 V1	2017 09 03.03109	02 21 23.69	+27 21 40.3	16.7	N	K02
C/2015 V1	2017 09 03.03574	02 21 23.35	+27 21 38.1	16.5	N	K02
C/2015 V1	2017 09 03.04039	02 21 23.09	+27 21 35.6	16.7	N	K02
C/2015 V1	2017 09 03.04378	02 21 22.92	+27 21 34.3	16.5	N	I81
C/2015 V1	2017 09 03.04804	02 21 22.59	+27 21 31.3	16.5	N	I81
C/2015 V1	2017 09 03.05088	02 21 22.43	+27 21 30.5	16.4	N	I81
C/2015 V1	2017 09 06.47258	02 17 47.991	+26 52 05.65	18.1	T	F51
C/2015 V1	2017 09 06.48596	02 17 47.110	+26 51 58.56	18.0	T	F51
C/2015 V1	2017 09 06.49973	02 17 46.199	+26 51 51.13	18.1	T	F51
C/2015 V1	2017 09 06.51312	02 17 45.321	+26 51 43.97	18.1	T	F51
C/2015 V1	2017 09 08.27532	02 15 48.73	+26 35 36.4	16.2	N	W96
C/2015 V1	2017 09 08.28813	02 15 47.81	+26 35 28.6	16.4	N	W96
C/2015 V1	2017 09 08.30250	02 15 46.86	+26 35 20.9	16.2	N	W96
C/2015 V1	2017 09 09.98978	02 13 51.39	+26 19 10.2	16.4	N	J01
C/2015 V1	2017 09 10.00054	02 13 50.71	+26 19 03.6	16.4	N	J01
C/2015 V1	2017 09 10.00413	02 13 50.39	+26 19 01.6	16.3	N	J01
C/2015 V1	2017 09 11.54715	02 12 01.41	+26 03 42.9	15.8	T	T05
C/2015 V1	2017 09 11.55719	02 12 00.71	+26 03 37.0	15.9	T	T05
C/2015 V1	2017 09 11.55859	02 12 00.60	+26 03 36.3	15.9	T	T05
C/2015 V1	2017 09 11.57503	02 11 59.40	+26 03 26.2	15.8	T	T05
C/2015 V1	2017 09 12.04612	02 11 25.59	+25 58 37.3	16.7	N	K02
C/2015 V1	2017 09 12.05230	02 11 25.14	+25 58 33.4	16.8	N	K02
C/2015 V1	2017 09 12.05847	02 11 24.69	+25 58 29.6	17.1	N	K02
C/2015 V1	2017 09 13.52354	02 09 37.63	+25 43 17.6	15.9	T	T08
C/2015 V1	2017 09 13.53296	02 09 36.89	+25 43 11.1	16.5	T	T08

C/2015 V1	2017 09 13.53598	02 09 36.67	+25 43 09.1	16.6	T	T08
C/2015 V1	2017 09 13.55194	02 09 35.51	+25 42 59.3	15.9	T	T08
C/2015 V1	2017 09 13.86478	02 09 12.29	+25 39 38.2	16.0	N	C36
C/2015 V1	2017 09 13.86566	02 09 12.26	+25 39 37.2	16.1	N	C36
C/2015 V1	2017 09 13.86654	02 09 12.16	+25 39 37.3	16.0	N	C36
C/2015 V1	2017 09 13.86742	02 09 12.12	+25 39 36.0	15.8	N	C36
C/2015 V1	2017 09 13.86830	02 09 12.04	+25 39 35.4	16.0	N	C36
C/2015 V1	2017 09 13.95216	02 09 05.85	+25 38 42.4	16.2	N	J01
C/2015 V1	2017 09 13.96951	02 09 04.53	+25 38 31.1	16.2	N	J01
C/2015 V1	2017 09 13.98396	02 09 03.44	+25 38 22.0	16.2	N	J01
C/2015 V1	2017 09 14.40215	02 08 32.16	+25 33 55.4	15.1	T	703
C/2015 V1	2017 09 14.40774	02 08 31.75	+25 33 51.8	15.1	T	703
C/2015 V1	2017 09 14.41326	02 08 31.28	+25 33 46.9	15.4	T	703
C/2015 V1	2017 09 14.41875	02 08 30.84	+25 33 43.6	15.4	T	703
C/2015 V1	2017 09 14.53385	02 08 22.33	+25 32 27.6			D95
C/2015 V1	2017 09 14.53817	02 08 21.98	+25 32 24.9			D95
C/2015 V1	2017 09 14.54464	02 08 21.48	+25 32 21.0	15.0	T	D95
C/2015 V1	2017 09 14.75810	02 08 05.32	+25 30 03.5			K D81
C/2015 V1	2017 09 14.76573	02 08 04.68	+25 29 57.5			K D81
C/2015 V1	2017 09 14.77336	02 08 04.12	+25 29 51.7			K D81
C/2015 V1	2017 09 14.78099	02 08 03.61	+25 29 46.2	15.4	T	K D81
C/2015 V1	2017 09 15.06367	02 07 42.19	+25 26 41.6	16.7	N	K02
C/2015 V1	2017 09 15.06832	02 07 41.82	+25 26 37.4	16.5	N	K02
C/2015 V1	2017 09 15.07609	02 07 41.22	+25 26 33.1	16.7	N	K02
C/2015 V1	2017 09 15.35398	02 07 20.04	+25 23 33.6	16.2	N	W96
C/2015 V1	2017 09 15.36804	02 07 18.95	+25 23 23.8	16.2	N	W96
C/2015 V1	2017 09 15.38132	02 07 17.94	+25 23 14.5	16.2	N	W96
C/2015 V1	2017 09 15.73785	02 06 50.86	+25 19 15.9	16.1	N	L51
C/2015 V1	2017 09 15.74079	02 06 50.68	+25 19 14.0			L51
C/2015 V1	2017 09 15.74226	02 06 50.56	+25 19 12.9			L51
C/2015 V1	2017 09 15.74375	02 06 50.47	+25 19 11.9	15.5	T	L51
C/2015 V1	2017 09 16.14675	02 06 19.27	+25 14 43.3	16.2	N	J22
C/2015 V1	2017 09 16.14999	02 06 19.10	+25 14 41.8	16.2	N	J22
C/2015 V1	2017 09 16.15322	02 06 18.82	+25 14 39.2	16.2	N	J22
C/2015 V1	2017 09 17.50867	02 04 33.26	+24 59 15.9	15.9	T	T08
C/2015 V1	2017 09 17.51777	02 04 32.53	+24 59 09.5	15.8	T	T08
C/2015 V1	2017 09 17.52581	02 04 31.89	+24 59 03.7	15.9	T	T08
C/2015 V1	2017 09 17.53103	02 04 31.48	+24 59 00.5	15.9	T	T08
C/2015 V1	2017 09 18.95894	02 02 38.02	+24 42 15.4	15.9	N	I81
C/2015 V1	2017 09 18.96320	02 02 37.67	+24 42 12.5	15.9	N	I81
C/2015 V1	2017 09 18.96604	02 02 37.44	+24 42 10.4	15.8	N	I81
C/2015 V1	2017 09 19.93873	02 01 18.85	+24 30 29.9	15.9	N	I81
C/2015 V1	2017 09 19.94583	02 01 18.27	+24 30 24.8	15.9	N	I81
C/2015 V1	2017 09 19.95151	02 01 17.80	+24 30 20.7	15.9	N	I81
C/2015 V1	2017 09 20.25311	02 00 53.14	+24 26 44.3	16.2	N	W96
C/2015 V1	2017 09 20.29283	02 00 49.88	+24 26 15.4	16.2	N	W96
C/2015 V1	2017 09 21.57762	01 59 04.013	+24 10 20.66	17.6	T	F51
C/2015 V1	2017 09 21.59152	01 59 02.835	+24 10 10.32	17.7	T	F51
C/2015 V1	2017 09 21.60539	01 59 01.674	+24 09 59.75	17.8	T	F51
C/2015 V1	2017 09 21.61928	01 59 00.512	+24 09 49.22	17.8	T	F51
C/2015 V1	2017 09 21.99568	01 58 29.37	+24 05 04.1	16.0	N	I81
C/2015 V1	2017 09 22.00278	01 58 28.76	+24 04 58.6	16.0	N	I81
C/2015 V1	2017 09 22.00846	01 58 28.30	+24 04 54.4	15.8	N	I81
C/2015 V1	2017 09 22.19123	01 58 13.09	+24 02 36.1	17.1	N	K 850
C/2015 V1	2017 09 22.21474	01 58 11.11	+24 02 18.4	17.0	N	K 850
C/2015 V1	2017 09 22.23826	01 58 09.11	+24 02 00.8	16.8	N	K 850
C/2015 V1	2017 09 22.26189	01 58 07.10	+24 01 42.9	17.2	N	K 850
C/2015 V1	2017 09 22.28530	01 58 05.16	+24 01 25.0	17.4	N	K 850
C/2015 V1	2017 09 22.90637	01 57 13.05	+23 53 28.9	16.2	N	B96
C/2015 V1	2017 09 22.90801	01 57 12.88	+23 53 27.3	16.1	N	B96
C/2015 V1	2017 09 22.90964	01 57 12.74	+23 53 26.4	16.2	N	B96
C/2015 V1	2017 09 22.91127	01 57 12.64	+23 53 25.3	16.3	N	B96
C/2015 V1	2017 09 22.91291	01 57 12.48	+23 53 23.3	16.2	N	B96
C/2015 V1	2017 09 22.91454	01 57 12.35	+23 53 22.4	16.3	N	B96
C/2015 V1	2017 09 22.92393	01 57 11.56	+23 53 15.8	16.1	N	C10
C/2015 V1	2017 09 22.94359	01 57 09.90	+23 53 00.7	16.1	N	C10
C/2015 V1	2017 09 22.96587	01 57 08.02	+23 52 43.8	16.1	N	C10
C/2015 V1	2017 09 23.50650	01 56 22.23	+23 45 46.0	16.2	T	T05
C/2015 V1	2017 09 23.51537	01 56 21.47	+23 45 39.0	16.1	T	T05
C/2015 V1	2017 09 23.51819	01 56 21.20	+23 45 36.6	17.0	T	T05
C/2015 V1	2017 09 23.53334	01 56 19.90	+23 45 24.8	17.0	T	T05
C/2015 V1	2017 09 23.90701	01 55 48.26	+23 40 31.1	16.3	N	B96
C/2015 V1	2017 09 23.90865	01 55 48.11	+23 40 29.7	16.3	N	B96
C/2015 V1	2017 09 23.91028	01 55 47.87	+23 40 29.1	16.5	N	B96
C/2015 V1	2017 09 23.91192	01 55 47.80	+23 40 27.9	16.5	N	B96
C/2015 V1	2017 09 23.91355	01 55 47.67	+23 40 26.6	16.5	N	B96
C/2015 V1	2017 09 23.91519	01 55 47.51	+23 40 24.3	16.4	N	B96
C/2015 V1	2017 09 24.90480	01 54 22.80	+23 27 21.2	16.5	N	B96
C/2015 V1	2017 09 24.90644	01 54 22.64	+23 27 20.2	16.4	N	B96
C/2015 V1	2017 09 24.90807	01 54 22.55	+23 27 17.8	16.7	N	B96
C/2015 V1	2017 09 24.90970	01 54 22.31	+23 27 17.1	16.3	N	B96
C/2015 V1	2017 09 24.91134	01 54 22.18	+23 27 16.4	16.4	N	B96
C/2015 V1	2017 09 24.91297	01 54 22.10	+23 27 14.1	16.3	N	B96
C/2015 V1	2017 09 25.63902	01 53 19.30	+23 17 31.5			Q11
C/2015 V1	2017 09 25.64473	01 53 18.80	+23 17 26.8			Q11
C/2015 V1	2017 09 25.65043	01 53 18.30	+23 17 22.3	15.7	T	Q11
C/2015 V1	2017 09 25.81381	01 53 04.22	+23 15 08.7	16.4	N	K 215
C/2015 V1	2017 09 25.81509	01 53 04.11	+23 15 07.7	16.4	N	K 215
C/2015 V1	2017 09 25.81637	01 53 03.98	+23 15 06.7	16.5	N	K 215
C/2015 V1	2017 09 25.88145	01 52 58.27	+23 14 12.9	17.7	N	C47
C/2015 V1	2017 09 25.88477	01 52 58.09	+23 14 10.3	17.6	N	C47
C/2015 V1	2017 09 25.92024	01 52 54.90	+23 13 42.7	16.1	N	J01
C/2015 V1	2017 09 25.92892	01 52 54.16	+23 13 35.9	16.1	N	J01
C/2015 V1	2017 09 25.95494	01 52 51.92	+23 13 14.7	16.1	N	J01
C/2015 V1	2017 09 26.96410	01 51 23.63	+22 59 25.7	15.6	N	C36
C/2015 V1	2017 09 26.96567	01 51 23.45	+22 59 24.2	15.7	N	C36
C/2015 V1	2017 09 26.96882	01 51 23.18	+22 59 22.2	15.6	N	C36
C/2015 V1	2017 09 27.50558	01 50 36.06	+22 51 57.2	15.7	T	T05
C/2015 V1	2017 09 27.51585	01 50 35.13	+22 51 48.5	15.8	T	T05
C/2015 V1	2017 09 27.53252	01 50 33.64	+22 51 34.4	15.8	T	T05
C/2015 V1	2017 09 27.53724	01 50 33.22	+22 51 30.6	15.7	T	T05
C/2015 V1	2017 09 28.01192	01 49 51.24	+22 44 51.3	17.1	N	K 160
C/2015 V1	2017 09 28.01469	01 49 51.05	+22 44 48.7	16.0	N	K 160
C/2015 V1	2017 09 28.01747	01 49 50.80	+22 44 46.4	17.4	N	K 160
C/2015 V1	2017 09 28.12354	01 49 41.38	+22 43 17.7	16.0	N	J22
C/2015 V1	2017 09 28.12692	01 49 41.08	+22 43 14.3	16.0	N	J22

C/2015 V1	2017 09 28.13014	01 49 40.78	+22 43 12.0	16.0	N	J22
C/2015 V1	2017 09 28.66171	01 48 53.63	+22 35 41.1			900
C/2015 V1	2017 09 28.66886	01 48 52.99	+22 35 35.0	14.8	T	900
C/2015 V1	2017 09 30.01588	01 46 52.48	+22 16 16.1	16.2	N	K A71
C/2015 V1	2017 09 30.02459	01 46 51.67	+22 16 07.7	16.2	N	K A71
C/2015 V1	2017 09 30.03329	01 46 50.89	+22 16 00.0	16.2	N	K A71
C/2015 V1	2017 10 01.30829	01 44 56.11	+21 57 24.3	14.7	T	703
C/2015 V1	2017 10 01.31322	01 44 55.56	+21 57 19.1	14.8	T	703
C/2015 V1	2017 10 01.31814	01 44 55.13	+21 57 15.0	14.7	T	703
C/2015 V1	2017 10 01.32307	01 44 54.71	+21 57 11.2	14.7	T	703

C/2015 V2 (Johnson)

C/2015 V2	2015 01 27.22418	06 06 14.409	+53 10 16.66	19.8	T	F51
C/2015 V2	2015 01 27.23730	06 06 13.933	+53 10 16.11	19.6	T	F51
C/2015 V2	2015 01 27.25052	06 06 13.473	+53 10 15.48	19.7	T	F51
C/2015 V2	2015 01 27.26360	06 06 12.988	+53 10 14.87	19.6	T	F51
C/2015 V2	2017 02 09.14311	15 48 55.00	+44 58 10.2	13.8	N	11G40
C/2015 V2	2017 02 09.18542	15 48 59.13	+44 58 18.4	13.8	N	11G40
C/2015 V2	2017 02 09.22649	15 49 03.13	+44 58 25.8	14.3	N	11G40
C/2015 V2	2017 03 04.59830	16 20 34.19	+46 19 36.0	10.7	T	D95
C/2015 V2	2017 03 04.60342	16 20 34.45	+46 19 37.5			D95
C/2015 V2	2017 03 04.60562	16 20 34.61	+46 19 37.9			D95
C/2015 V2	2017 05 03.84549	15 47 33.30	+42 55 21.6	11.9	N	K14
C/2015 V2	2017 05 03.85944	15 47 31.38	+42 55 02.3	11.9	N	K14
C/2015 V2	2017 05 03.86562	15 47 30.56	+42 54 54.3	11.8	N	K14
C/2015 V2	2017 05 03.87978	15 47 28.66	+42 54 34.6	11.9	N	K14
C/2015 V2	2017 05 18.60062	15 12 59.33	+34 40 24.9	8.3	T	349
C/2015 V2	2017 05 18.60512	15 12 58.67	+34 40 13.1			349
C/2015 V2	2017 05 18.60957	15 12 58.03	+34 40 01.0			349
C/2015 V2	2017 05 22.63068	15 03 42.54	+31 28 41.2	12.3	N	Q19
C/2015 V2	2017 05 22.63432	15 03 42.12	+31 28 30.6	12.4	N	Q19
C/2015 V2	2017 05 22.63762	15 03 41.60	+31 28 20.4	12.4	N	Q19
C/2015 V2	2017 05 22.64109	15 03 41.17	+31 28 10.4	12.5	N	Q19
C/2015 V2	2017 05 22.64457	15 03 40.71	+31 27 57.9	12.4	N	Q19
C/2015 V2	2017 05 22.64804	15 03 40.18	+31 27 48.9	12.2	N	Q19
C/2015 V2	2017 05 22.65325	15 03 39.53	+31 27 32.1	12.3	N	Q19
C/2015 V2	2017 05 22.65845	15 03 38.74	+31 27 16.0	12.4	N	Q19
C/2015 V2	2017 05 22.66366	15 03 37.98	+31 27 00.5	12.3	N	Q19
C/2015 V2	2017 05 22.66887	15 03 37.28	+31 26 44.4	12.4	N	Q19
C/2015 V2	2017 05 22.67408	15 03 36.57	+31 26 28.7	12.3	N	Q19
C/2015 V2	2017 05 22.67929	15 03 35.88	+31 26 12.8	12.4	N	Q19
C/2015 V2	2017 05 22.68450	15 03 35.16	+31 25 56.9	12.4	N	Q19
C/2015 V2	2017 05 22.68936	15 03 34.45	+31 25 43.0	12.5	N	Q19
C/2015 V2	2017 05 28.66403	14 50 45.95	+25 58 48.7			349
C/2015 V2	2017 05 28.66787	14 50 45.48	+25 58 35.2			349
C/2015 V2	2017 05 28.67169	14 50 45.02	+25 58 21.9			349
C/2015 V2	2017 05 28.67547	14 50 44.53	+25 58 08.7	8.2	T	349
C/2015 V2	2017 05 28.69465	14 50 42.20	+25 57 00.7	8.5	T	D95
C/2015 V2	2017 05 28.70272	14 50 41.19	+25 56 32.1			D95
C/2015 V2	2017 05 28.70541	14 50 40.86	+25 56 22.3			D95
C/2015 V2	2017 05 29.57424	14 48 56.78	+25 05 02.9	12.3	N	Q19
C/2015 V2	2017 05 29.57795	14 48 56.33	+25 04 49.4	12.3	N	Q19
C/2015 V2	2017 05 29.58142	14 48 55.92	+25 04 37.5	12.2	N	Q19
C/2015 V2	2017 05 29.58489	14 48 55.48	+25 04 24.5	12.2	N	Q19
C/2015 V2	2017 05 29.58836	14 48 55.01	+25 04 11.3	12.2	N	Q19
C/2015 V2	2017 05 29.59183	14 48 54.61	+25 03 59.5	12.3	N	Q19
C/2015 V2	2017 05 29.59531	14 48 54.22	+25 03 47.1	12.4	N	Q19
C/2015 V2	2017 05 29.59878	14 48 53.76	+25 03 34.9	12.2	N	Q19
C/2015 V2	2017 05 29.60225	14 48 53.34	+25 03 21.7	12.3	N	Q19
C/2015 V2	2017 05 29.60920	14 48 52.49	+25 02 56.6	12.3	N	Q19
C/2015 V2	2017 05 29.61267	14 48 51.99	+25 02 44.9	12.4	N	Q19
C/2015 V2	2017 05 29.61614	14 48 51.68	+25 02 31.9	12.3	N	Q19
C/2015 V2	2017 05 29.61961	14 48 51.19	+25 02 20.1	12.3	N	Q19
C/2015 V2	2017 05 29.62309	14 48 50.82	+25 02 07.2	12.4	N	Q19
C/2015 V2	2017 05 29.62656	14 48 50.36	+25 01 54.6	12.4	N	Q19
C/2015 V2	2017 05 29.63003	14 48 49.98	+25 01 42.8	12.3	N	Q19
C/2015 V2	2017 05 29.63350	14 48 49.50	+25 01 30.0	12.2	N	Q19
C/2015 V2	2017 05 29.63697	14 48 49.12	+25 01 17.6	12.3	N	Q19
C/2015 V2	2017 05 29.64045	14 48 48.68	+25 01 05.6	12.2	N	Q19
C/2015 V2	2017 05 29.64392	14 48 48.23	+25 00 52.5	12.3	N	Q19
C/2015 V2	2017 05 29.64652	14 48 47.94	+25 00 43.3	12.4	N	Q19
C/2015 V2	2017 06 13.86446	14 24 46.39	+08 31 14.6	12.4	N	K A71
C/2015 V2	2017 06 13.86564	14 24 46.30	+08 31 10.7	12.0	N	K A71
C/2015 V2	2017 06 13.86698	14 24 46.19	+08 31 04.7	12.4	N	K A71
C/2015 V2	2017 06 13.86831	14 24 46.10	+08 30 59.4	12.1	N	K A71
C/2015 V2	2017 06 23.90469	14 16 01.07	−02 24 02.1	12.7	N	B96
C/2015 V2	2017 06 23.90597	14 16 01.04	−02 24 07.2	12.7	N	B96
C/2015 V2	2017 06 23.90726	14 16 00.99	−02 24 11.7	12.7	N	B96
C/2015 V2	2017 06 23.90855	14 16 00.91	−02 24 17.1	12.7	N	B96
C/2015 V2	2017 06 23.90984	14 16 00.88	−02 24 21.9	12.7	N	B96
C/2015 V2	2017 06 23.91112	14 16 00.83	−02 24 26.7	12.7	N	B96
C/2015 V2	2017 06 23.91241	14 16 00.78	−02 24 31.1	12.7	N	B96
C/2015 V2	2017 06 23.91397	14 16 00.71	−02 24 37.0	12.7	N	B96
C/2015 V2	2017 06 23.91560	14 16 00.66	−02 24 43.4	12.8	N	B96
C/2015 V2	2017 07 05.82967	14 12 35.44	−13 48 20.6	13.8	N	K 160
C/2015 V2	2017 07 05.83339	14 12 35.43	−13 48 32.2	13.8	N	K 160
C/2015 V2	2017 07 05.83764	14 12 35.40	−13 48 44.9	13.7	N	K 160
C/2015 V2	2017 07 06.32455	14 12 35.70	−14 13 56.1	13.3	T	T05
C/2015 V2	2017 07 06.32651	14 12 35.70	−14 14 02.2	13.3	T	T05
C/2015 V2	2017 07 06.33237	14 12 35.69	−14 14 20.3	13.3	T	T05
C/2015 V2	2017 07 06.33432	14 12 35.69	−14 14 26.3	13.3	T	T05
C/2015 V2	2017 07 06.34074	14 12 35.68	−14 14 46.0	13.3	T	T05
C/2015 V2	2017 07 06.34275	14 12 35.68	−14 14 52.3	13.3	T	T05
C/2015 V2	2017 07 06.34914	14 12 35.67	−14 15 12.0	13.3	T	T05
C/2015 V2	2017 07 06.35114	14 12 35.67	−14 15 18.2	13.3	T	T05
C/2015 V2	2017 07 06.84156	14 12 36.97	−14 40 30.8	13.7	N	K 160
C/2015 V2	2017 07 06.84357	14 12 36.97	−14 40 37.0	13.7	N	K 160
C/2015 V2	2017 07 06.84580	14 12 36.94	−14 40 44.3	13.6	N	K 160
C/2015 V2	2017 07 07.50389	14 12 39.39	−15 14 09.3	9.6	T	349
C/2015 V2	2017 07 07.50586	14 12 39.39	−15 14 15.2			349
C/2015 V2	2017 07 07.54303	14 12 39.49	−15 16 07.9			D81
C/2015 V2	2017 07 07.54345	14 12 39.50	−15 16 08.8			D81
C/2015 V2	2017 07 07.54391	14 12 39.49	−15 16 10.1			D81
C/2015 V2	2017 07 07.54433	14 12 39.49	−15 16 11.0	10.3	T	D81
C/2015 V2	2017 07 08.34376	14 12 44.15	−15 56 12.7	12.8	T	T08
C/2015 V2	2017 07 08.35117	14 12 44.18	−15 56 34.8	12.9	T	T08

C/2015 V2	2017 07 08.36601	14 12 44.25	−15 57 18.9	12.9	T		T08
C/2015 V2	2017 07 08.87023	14 12 48.35	−16 22 18.7	12.4	N		Z55
C/2015 V2	2017 07 08.87119	14 12 48.36	−16 22 21.4	12.4	N		Z55
C/2015 V2	2017 07 08.87168	14 12 48.38	−16 22 22.8	12.4	N		Z55
C/2015 V2	2017 07 08.87226	14 12 48.36	−16 22 24.8	12.4	N		Z55
C/2015 V2	2017 07 09.88508	14 12 58.07	−17 11 50.5	12.2	N		J01
C/2015 V2	2017 07 09.89021	14 12 58.17	−17 12 04.2	12.3	N		J01
C/2015 V2	2017 07 09.89642	14 12 58.23	−17 12 22.2	13.1	N	9	G40
C/2015 V2	2017 07 09.89787	14 12 58.21	−17 12 27.8	12.3	N		J01
C/2015 V2	2017 07 09.90103	14 12 58.28	−17 12 35.5	13.1	N	9	G40
C/2015 V2	2017 07 09.90457	14 12 58.31	−17 12 45.7	13.2	N	9	G40
C/2015 V2	2017 07 09.91028	14 12 58.33	−17 13 02.4	13.1	N	9	G40
C/2015 V2	2017 07 09.91492	14 12 58.39	−17 13 15.8	13.1	N	9	G40
C/2015 V2	2017 07 10.83418	14 13 09.53	−17 57 19.1	12.4	N		585
C/2015 V2	2017 07 10.83447	14 13 09.56	−17 57 20.2	12.3	N		585
C/2015 V2	2017 07 10.83471	14 13 09.54	−17 57 20.7	12.4	N		585
C/2015 V2	2017 07 10.83657	14 13 09.60	−17 57 26.2	12.3	N		585
C/2015 V2	2017 07 10.83830	14 13 09.65	−17 57 30.8	12.4	N		585
C/2015 V2	2017 07 10.84026	14 13 09.62	−17 57 36.6	12.3	N		585
C/2015 V2	2017 07 10.84062	14 13 09.65	−17 57 37.6	12.3	N		585
C/2015 V2	2017 07 10.84174	14 13 09.70	−17 57 41.4	14.0	N	K	160
C/2015 V2	2017 07 10.84448	14 13 09.73	−17 57 49.2	14.0	N	K	160
C/2015 V2	2017 07 10.84724	14 13 09.79	−17 57 56.8	14.1	N	K	160
C/2015 V2	2017 07 11.90571	14 13 25.32	−18 47 42.1	12.5	N		C86
C/2015 V2	2017 07 11.90669	14 13 25.34	−18 47 45.2	12.5	N		C86
C/2015 V2	2017 07 11.90858	14 13 25.36	−18 47 49.9	12.5	N		C86
C/2015 V2	2017 07 11.96866	14 13 26.85	−18 50 29.5	12.7	T		Y00
C/2015 V2	2017 07 11.97023	14 13 26.81	−18 50 34.6	12.6	T		Y00
C/2015 V2	2017 07 11.97213	14 13 26.79	−18 50 40.1	12.5	T		Y00
C/2015 V2	2017 07 12.82356	14 13 41.20	−19 30 04.4	14.2	N	K	160
C/2015 V2	2017 07 12.82708	14 13 41.29	−19 30 13.9	14.0	N	K	160
C/2015 V2	2017 07 12.83056	14 13 41.43	−19 30 23.2	14.0	N	K	160
C/2015 V2	2017 07 12.90024	14 13 42.56	−19 33 35.0	12.4	N		C86
C/2015 V2	2017 07 12.90124	14 13 42.50	−19 33 37.4	12.4	N		C86
C/2015 V2	2017 07 12.90311	14 13 42.64	−19 33 42.9	12.4	N		C86
C/2015 V2	2017 07 12.98955	14 13 44.01	−19 37 38.3	12.2	N		J22
C/2015 V2	2017 07 12.99019	14 13 44.10	−19 37 39.4	12.2	N		J22
C/2015 V2	2017 07 12.99206	14 13 44.19	−19 37 45.4	12.2	N		J22
C/2015 V2	2017 07 13.88464	14 14 02.15	−20 18 09.3	12.2	N		J01
C/2015 V2	2017 07 13.88689	14 14 02.23	−20 18 15.6	12.2	N		J01
C/2015 V2	2017 07 13.89411	14 14 02.29	−20 18 35.3	12.3	N		J01
C/2015 V2	2017 07 14.28819	14 14 10.77	−20 36 09.4	13.4	T		T05
C/2015 V2	2017 07 14.29719	14 14 10.94	−20 36 33.4	13.4	T		T05
C/2015 V2	2017 07 14.30515	14 14 11.10	−20 36 54.5	13.4	T		T05
C/2015 V2	2017 07 14.31314	14 14 11.24	−20 37 15.7	13.4	T		T05
C/2015 V2	2017 07 14.47205	14 14 14.95	−20 44 20.5				372
C/2015 V2	2017 07 14.47465	14 14 14.99	−20 44 27.6	10.5	T		372
C/2015 V2	2017 07 14.47747	14 14 15.05	−20 44 35.0				372
C/2015 V2	2017 07 14.82142	14 14 22.85	−20 59 48.0	14.1	N	K	160
C/2015 V2	2017 07 14.82479	14 14 22.92	−20 59 56.9	14.1	N	K	160
C/2015 V2	2017 07 14.82819	14 14 23.01	−21 00 05.8	14.0	N	K	160
C/2015 V2	2017 07 16.82346	14 15 14.28	−22 26 22.0	14.1	N	K	160
C/2015 V2	2017 07 16.82711	14 15 14.33	−22 26 31.0	14.0	N	K	160
C/2015 V2	2017 07 16.83078	14 15 14.45	−22 26 40.0	13.9	N	K	160
C/2015 V2	2017 07 16.87905	14 15 15.80	−22 28 42.9	12.4	N		J01
C/2015 V2	2017 07 16.88350	14 15 15.97	−22 28 54.3	12.4	N		J01
C/2015 V2	2017 07 16.88652	14 15 16.01	−22 29 01.7	12.3	N		J01
C/2015 V2	2017 07 16.90360	14 15 16.52	−22 29 43.2	12.7	N		C86
C/2015 V2	2017 07 16.90455	14 15 16.50	−22 29 46.1	12.7	N		C86
C/2015 V2	2017 07 17.47063	14 15 32.87	−22 53 37.9				D81
C/2015 V2	2017 07 17.47139	14 15 32.92	−22 53 39.2				D81
C/2015 V2	2017 07 17.47215	14 15 32.95	−22 53 41.3				D81
C/2015 V2	2017 07 17.47292	14 15 32.94	−22 53 44.0	10.8	T		D81
C/2015 V2	2017 07 18.48618	14 16 04.09	−23 35 46.8				349
C/2015 V2	2017 07 18.49012	14 16 04.20	−23 35 56.3				349
C/2015 V2	2017 07 18.49395	14 16 04.31	−23 36 05.8	9.8	T		349
C/2015 V2	2017 07 18.83680	14 16 15.50	−23 50 08.3	14.1	N	K	160
C/2015 V2	2017 07 18.83891	14 16 15.56	−23 50 13.5	14.1	N	K	160
C/2015 V2	2017 07 18.84101	14 16 15.60	−23 50 19.1	14.2	N	K	160
C/2015 V2	2017 07 19.82208	14 16 48.86	−24 29 59.7	14.3	N	K	160
C/2015 V2	2017 07 19.82337	14 16 48.88	−24 30 03.7	14.3	N	K	160
C/2015 V2	2017 07 19.82481	14 16 48.93	−24 30 07.2	13.8	N	K	160
C/2015 V2	2017 07 19.89602	14 16 51.45	−24 32 56.6	12.6	N		J22
C/2015 V2	2017 07 19.89734	14 16 51.48	−24 33 00.1	12.6	N		J22
C/2015 V2	2017 07 19.89868	14 16 51.55	−24 33 03.1	12.6	N		J22
C/2015 V2	2017 07 20.27887	14 17 05.06	−24 48 11.7	13.3	T		T08
C/2015 V2	2017 07 20.28714	14 17 05.34	−24 48 31.2	13.3	T		T08
C/2015 V2	2017 07 20.29493	14 17 05.60	−24 48 49.8	13.3	T		T08
C/2015 V2	2017 07 20.30316	14 17 05.88	−24 49 09.1	13.2	T		T08
C/2015 V2	2017 07 23.89428	14 19 30.13	−27 07 02.8	12.3	N		J22
C/2015 V2	2017 07 23.89632	14 19 30.28	−27 07 07.4	12.3	N		J22
C/2015 V2	2017 07 23.89699	14 19 30.29	−27 07 08.6	12.3	N		J22
C/2015 V2	2017 07 24.88102	14 20 14.72	−27 43 21.9	12.3	N		J01
C/2015 V2	2017 07 24.88326	14 20 14.88	−27 43 25.3	12.4	N		J01
C/2015 V2	2017 07 25.50299	14 20 43.78	−28 05 45.0	13.3	N		Q68
C/2015 V2	2017 07 25.55304	14 20 46.11	−28 07 31.9	13.4	N		Q68
C/2015 V2	2017 07 26.28111	14 21 21.59	−28 33 41.9	13.6	T		T05
C/2015 V2	2017 07 26.28962	14 21 21.99	−28 33 59.9	13.6	T		T05
C/2015 V2	2017 07 26.29762	14 21 22.36	−28 34 17.0	13.6	T		T05
C/2015 V2	2017 07 26.30614	14 21 22.77	−28 34 35.0	13.6	T		T05
C/2015 V2	2017 07 30.49905	14 25 07.75	−30 57 44.1	14.4	N		467
C/2015 V2	2017 07 30.49984	14 25 07.82	−30 57 45.9	14.6	N		467
C/2015 V2	2017 07 30.50064	14 25 07.83	−30 57 47.5	14.4	N		467
C/2015 V2	2017 08 01.26629	14 26 53.46	−31 55 04.7	13.5	T		T08
C/2015 V2	2017 08 01.27459	14 26 53.95	−31 55 20.4	13.4	T		T08
C/2015 V2	2017 08 01.28237	14 26 54.40	−31 55 35.3	13.3	T		T08
C/2015 V2	2017 08 02.88052	14 28 35.29	−32 45 48.2	12.6	N		J22
C/2015 V2	2017 08 02.88124	14 28 35.34	−32 45 49.8	12.6	N		J22
C/2015 V2	2017 08 02.88321	14 28 35.46	−32 45 53.0	12.6	N		J22
C/2015 V2	2017 08 03.26050	14 28 59.97	−32 57 31.8	13.8	T		T05
C/2015 V2	2017 08 03.26750	14 29 00.41	−32 57 44.6	14.0	T		T05
C/2015 V2	2017 08 03.27494	14 29 00.87	−32 57 58.2	13.8	T		T05
C/2015 V2	2017 08 03.28230	14 29 01.34	−32 58 11.8	13.7	T		T05
C/2015 V2	2017 08 05.26756	14 31 15.00	−33 58 12.4	13.1	T		T08
C/2015 V2	2017 08 05.27491	14 31 15.49	−33 58 25.4	13.1	T		T08
C/2015 V2	2017 08 05.28220	14 31 15.97	−33 58 38.3	13.5	T		T08

C/2015 V2	2017 08 05.28902	14 31 16.44	−33 58 50.5	13.2	T	T08
C/2015 V2	2017 08 06.87502	14 33 08.66	−34 45 19.8	12.9	N	J22
C/2015 V2	2017 08 06.87641	14 33 08.77	−34 45 22.0	12.9	N	J22
C/2015 V2	2017 08 06.87774	14 33 08.92	−34 45 24.5	12.9	N	J22
C/2015 V2	2017 08 10.24835	14 37 22.81	−36 20 03.9	13.2	T	T08
C/2015 V2	2017 08 10.25352	14 37 23.21	−36 20 12.3	13.2	T	T08
C/2015 V2	2017 08 10.26079	14 37 23.75	−36 20 24.2	13.4	T	T08
C/2015 V2	2017 08 10.26853	14 37 24.36	−36 20 36.8	13.2	T	T08
C/2015 V2	2017 08 12.42574	14 40 17.95	−37 18 26.5	11.1	T	349
C/2015 V2	2017 08 12.42818	14 40 18.09	−37 18 30.7			349
C/2015 V2	2017 08 15.38034	14 44 29.14	−38 34 17.2	12.6	N	31Q62
C/2015 V2	2017 08 15.38153	14 44 29.20	−38 34 19.1	12.6	N	31Q62
C/2015 V2	2017 08 15.38245	14 44 29.30	−38 34 20.5	12.6	N	31Q62
C/2015 V2	2017 08 16.24542	14 45 45.48	−38 55 55.0	14.0	T	T05
C/2015 V2	2017 08 16.25102	14 45 45.95	−38 56 03.3	14.1	T	T05
C/2015 V2	2017 08 16.25853	14 45 46.60	−38 56 14.4	14.2	T	T05
C/2015 V2	2017 08 20.97139	14 53 06.51	−40 48 27.4	12.4	N	K X39
C/2015 V2	2017 08 20.98836	14 53 08.17	−40 48 50.2	12.6	N	K X39
C/2015 V2	2017 08 21.00460	14 53 09.71	−40 49 12.3	12.6	N	K X39
C/2015 V2	2017 08 30.85017	15 10 31.97	−44 18 45.9	13.6	N	9 G40
C/2015 V2	2017 08 30.85110	15 10 32.12	−44 18 47.0	13.6	N	9 G40
C/2015 V2	2017 08 31.85278	15 12 27.14	−44 38 21.7	13.8	N	9 G40
C/2015 V2	2017 08 31.85966	15 12 27.89	−44 38 30.0	13.9	N	9 G40
C/2015 V2	2017 09 01.03245	15 12 47.89	−44 41 47.3	13.9	N	3W88
C/2015 V2	2017 09 01.03950	15 12 48.72	−44 41 55.3	13.9	N	3W88
C/2015 V2	2017 09 01.04089	15 12 48.86	−44 41 56.7	13.9	N	3W88
C/2015 V2	2017 09 01.04265	15 12 49.06	−44 41 58.9	13.9	N	3W88
C/2015 V2	2017 09 01.04615	15 12 49.46	−44 42 02.7	14.0	N	3W88
C/2015 V2	2017 09 01.49842	15 13 42.07	−44 50 46.8	14.2	N	32Q62
C/2015 V2	2017 09 01.50501	15 13 42.87	−44 50 53.6	14.2	N	32Q62
C/2015 V2	2017 09 12.36683	15 36 24.76	−48 02 52.4	14.0	N	Q68
C/2015 V2	2017 09 12.38982	15 36 27.82	−48 03 13.9	14.0	N	Q68
C/2015 V2	2017 09 14.42216	15 41 03.24	−48 35 36.7	13.6	N	32Q62
C/2015 V2	2017 09 14.43532	15 41 05.03	−48 35 48.8	13.5	N	32Q62
C/2015 V2	2017 09 15.00492	15 42 23.37	−48 44 41.1	12.1	T	K I47
C/2015 V2	2017 09 15.01240	15 42 24.39	−48 44 48.0	12.1	T	K I47
C/2015 V2	2017 09 15.02497	15 42 26.12	−48 44 59.3	12.1	T	K I47
C/2015 V2	2017 09 15.39693	15 43 17.54	−48 50 43.7	14.1	N	Q68
C/2015 V2	2017 09 15.42762	15 43 21.80	−48 51 12.0	14.1	N	Q68
C/2015 V2	2017 09 15.49218	15 43 30.72	−48 52 10.6	14.3	N	Q68
C/2015 V2	2017 09 15.50047	15 43 31.86	−48 52 17.4	14.2	N	Q68
C/2015 V2	2017 09 17.99687	15 49 23.21	−49 29 56.1	13.9	N	3W88
C/2015 V2	2017 09 18.00469	15 49 24.31	−49 30 03.1	13.9	N	3W88
C/2015 V2	2017 09 18.00964	15 49 25.02	−49 30 07.3	13.9	N	3W88
C/2015 V2	2017 09 18.01137	15 49 25.27	−49 30 08.9	13.9	N	3W88
C/2015 V2	2017 09 18.01767	15 49 26.14	−49 30 14.1	13.9	N	3W88
C/2015 V2	2017 09 30.99695	16 22 20.36	−52 20 51.8	14.2	N	W96
C/2015 V2	2017 10 01.01604	16 22 23.48	−52 21 05.8	14.3	N	W96

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

C/2015 VL_{62}	2016 11 08.87971	01 35 33.31	+27 24 52.6	16.6	N	A24
C/2015 VL_{62}	2016 11 08.88043	01 35 33.14	+27 24 52.5	16.7	N	A24
C/2015 VL_{62}	2016 11 08.92257	01 35 27.67	+27 24 24.3	16.7	N	A24
C/2015 VL_{62}	2016 11 08.92329	01 35 27.60	+27 24 23.9	16.8	N	A24
C/2015 VL_{62}	2016 11 29.77420	00 55 38.97	+23 06 09.2	16.8	N	A24
C/2015 VL_{62}	2016 11 29.77492	00 55 38.90	+23 06 08.3	16.8	N	A24
C/2015 VL_{62}	2016 11 29.81848	00 55 34.58	+23 05 35.1	16.7	N	A24
C/2015 VL_{62}	2016 11 29.81921	00 55 34.51	+23 05 34.7	16.6	N	A24
C/2015 VL_{62}	2017 06 23.66256	00 04 31.40	+15 55 55.8	15.1	T	D95
C/2015 VL_{62}	2017 06 23.66688	00 04 31.12	+15 55 55.6			D95
C/2015 VL_{62}	2017 06 23.67444	00 04 30.62	+15 55 55.4			D95
C/2015 VL_{62}	2017 07 03.19726	23 52 50.08	+15 40 32.8	15.5	N	J22
C/2015 VL_{62}	2017 07 03.20111	23 52 49.72	+15 40 32.3	15.5	N	J22
C/2015 VL_{62}	2017 07 03.20499	23 52 49.37	+15 40 31.8	15.5	N	J22
C/2015 VL_{62}	2017 07 04.06975	23 51 33.14	+15 38 07.2	16.6	N	K 160
C/2015 VL_{62}	2017 07 04.07226	23 51 32.91	+15 38 06.7	16.6	N	K 160
C/2015 VL_{62}	2017 07 04.07478	23 51 32.72	+15 38 06.4	16.7	N	K 160
C/2015 VL_{62}	2017 07 06.05374	23 48 29.47	+15 31 51.6	16.7	N	K 160
C/2015 VL_{62}	2017 07 06.05648	23 48 29.20	+15 31 51.1	16.8	N	K 160
C/2015 VL_{62}	2017 07 06.05925	23 48 28.93	+15 31 50.8	16.8	N	K 160
C/2015 VL_{62}	2017 07 06.62707	23 47 34.18	+15 29 49.5	14.2	T	349
C/2015 VL_{62}	2017 07 06.64703	23 47 32.18	+15 29 45.8			349
C/2015 VL_{62}	2017 07 07.02048	23 46 55.45	+15 28 25.1	16.8	N	K 160
C/2015 VL_{62}	2017 07 07.02328	23 46 55.13	+15 28 24.9	16.7	N	K 160
C/2015 VL_{62}	2017 07 07.02608	23 46 54.88	+15 28 24.3	16.8	N	K 160
C/2015 VL_{62}	2017 07 10.95846	23 40 00.34	+15 11 26.3	15.2	N	585
C/2015 VL_{62}	2017 07 10.95916	23 40 00.27	+15 11 25.5	15.3	N	585
C/2015 VL_{62}	2017 07 10.95987	23 40 00.19	+15 11 25.4	15.2	N	585
C/2015 VL_{62}	2017 07 10.96058	23 40 00.07	+15 11 25.4	15.4	N	585
C/2015 VL_{62}	2017 07 10.96129	23 40 00.02	+15 11 24.9	15.3	N	585
C/2015 VL_{62}	2017 07 10.96200	23 39 59.91	+15 11 25.2	15.3	N	585
C/2015 VL_{62}	2017 07 10.96271	23 39 59.90	+15 11 25.1	15.2	N	585
C/2015 VL_{62}	2017 07 10.96341	23 39 59.76	+15 11 24.3	15.3	N	585
C/2015 VL_{62}	2017 07 10.96412	23 39 59.69	+15 11 24.3	15.1	N	585
C/2015 VL_{62}	2017 07 10.96485	23 39 59.61	+15 11 24.2	15.3	N	585
C/2015 VL_{62}	2017 07 10.96558	23 39 59.53	+15 11 24.0	15.1	N	585
C/2015 VL_{62}	2017 07 10.96630	23 39 59.44	+15 11 23.9	15.2	N	585
C/2015 VL_{62}	2017 07 12.60964	23 36 50.23	+15 02 48.5	16.0	T	T05
C/2015 VL_{62}	2017 07 12.62072	23 36 48.91	+15 02 45.2	16.2	T	T05
C/2015 VL_{62}	2017 07 12.63221	23 36 47.58	+15 02 40.3	16.0	T	T05
C/2015 VL_{62}	2017 07 13.03711	23 35 59.57	+15 00 22.5	16.5	N	K K02
C/2015 VL_{62}	2017 07 13.04484	23 35 58.69	+15 00 20.1	16.7	N	K K02
C/2015 VL_{62}	2017 07 13.07869	23 35 54.58	+15 00 08.5	15.2	N	C23
C/2015 VL_{62}	2017 07 13.08318	23 35 54.05	+15 00 07.2	15.4	N	C23
C/2015 VL_{62}	2017 07 13.08692	23 35 53.59	+15 00 05.8	15.2	N	C23
C/2015 VL_{62}	2017 07 15.02191	23 31 55.05	+14 48 20.4	16.2	N	K 160
C/2015 VL_{62}	2017 07 15.02464	23 31 54.76	+14 48 19.1	15.5	N	K 160
C/2015 VL_{62}	2017 07 15.02738	23 31 54.41	+14 48 18.0	15.6	N	K 160
C/2015 VL_{62}	2017 07 17.02093	23 27 33.96	+14 34 35.7	15.1	N	987
C/2015 VL_{62}	2017 07 17.03225	23 27 32.44	+14 34 30.6	15.2	N	987
C/2015 VL_{62}	2017 07 17.04884	23 27 30.25	+14 34 24.3	16.5	N	K 160
C/2015 VL_{62}	2017 07 17.05122	23 27 29.92	+14 34 23.4	16.6	N	K 160
C/2015 VL_{62}	2017 07 17.05387	23 27 29.54	+14 34 22.7	16.4	N	K 160
C/2015 VL_{62}	2017 07 17.97887	23 25 23.47	+14 27 25.3	17.1	N	C47
C/2015 VL_{62}	2017 07 17.98219	23 25 23.01	+14 27 23.9	16.1	N	C47
C/2015 VL_{62}	2017 07 17.98588	23 25 22.52	+14 27 22.0	17.2	N	C47

C/2015 VL_{62}	2017 07 17.98957	23 25 21.98	+14 27 20.7	17.3	N		C47
C/2015 VL_{62}	2017 07 17.99326	23 25 21.48	+14 27 19.0	16.2	N		C47
C/2015 VL_{62}	2017 07 17.99610	23 25 21.11	+14 27 17.3	14.9	N		585
C/2015 VL_{62}	2017 07 17.99681	23 25 21.00	+14 27 17.0	15.0	N		585
C/2015 VL_{62}	2017 07 17.99695	23 25 20.96	+14 27 17.2	16.7	N		C47
C/2015 VL_{62}	2017 07 17.99752	23 25 20.92	+14 27 16.4	15.0	N		585
C/2015 VL_{62}	2017 07 17.99823	23 25 20.83	+14 27 16.3	15.0	N		585
C/2015 VL_{62}	2017 07 17.99894	23 25 20.70	+14 27 16.1	15.0	N		585
C/2015 VL_{62}	2017 07 17.99964	23 25 20.62	+14 27 15.6	15.0	N		585
C/2015 VL_{62}	2017 07 18.00035	23 25 20.53	+14 27 15.3	15.0	N		585
C/2015 VL_{62}	2017 07 18.00106	23 25 20.42	+14 27 15.2	15.1	N		585
C/2015 VL_{62}	2017 07 18.00177	23 25 20.33	+14 27 14.7	15.1	N		585
C/2015 VL_{62}	2017 07 18.00248	23 25 20.22	+14 27 14.4	15.1	N		585
C/2015 VL_{62}	2017 07 18.01422	23 25 18.57	+14 27 09.4	16.5	N	K	160
C/2015 VL_{62}	2017 07 18.01700	23 25 18.22	+14 27 08.4	16.6	N	K	160
C/2015 VL_{62}	2017 07 18.01979	23 25 17.81	+14 27 07.3	15.8	N	K	160
C/2015 VL_{62}	2017 07 18.05865	23 25 12.45	+14 26 47.9	15.2	N		987
C/2015 VL_{62}	2017 07 18.06080	23 25 12.14	+14 26 47.0	15.2	N		987
C/2015 VL_{62}	2017 07 18.06744	23 25 11.21	+14 26 44.5	15.2	N		987
C/2015 VL_{62}	2017 07 18.22302	23 24 49.69	+14 25 36.8	15.9	N		W96
C/2015 VL_{62}	2017 07 18.26809	23 24 43.36	+14 25 15.9	15.8	N		W96
C/2015 VL_{62}	2017 07 18.43242	23 24 20.18	+14 23 58.6	14.0	T	K	I47
C/2015 VL_{62}	2017 07 18.43782	23 24 19.47	+14 23 55.8	14.0	T	K	I47
C/2015 VL_{62}	2017 07 18.44321	23 24 18.69	+14 23 53.3	14.0	T	K	I47
C/2015 VL_{62}	2017 07 18.44807	23 24 18.05	+14 23 50.7	14.0	T	K	I47
C/2015 VL_{62}	2017 07 18.57113	23 24 00.96	+14 22 48.8	15.9	T		T08
C/2015 VL_{62}	2017 07 18.58231	23 23 59.35	+14 22 42.6	15.8	T		T08
C/2015 VL_{62}	2017 07 18.59321	23 23 57.84	+14 22 38.3	15.9	T		T08
C/2015 VL_{62}	2017 07 18.60303	23 23 56.48	+14 22 33.2	15.8	T		T08
C/2015 VL_{62}	2017 07 18.99238	23 23 01.50	+14 19 23.4	15.4	N		585
C/2015 VL_{62}	2017 07 18.99309	23 23 01.43	+14 19 22.8	15.4	N		585
C/2015 VL_{62}	2017 07 18.99380	23 23 01.32	+14 19 22.5	15.3	N		585
C/2015 VL_{62}	2017 07 18.99451	23 23 01.23	+14 19 22.1	15.3	N		585
C/2015 VL_{62}	2017 07 18.99664	23 23 00.90	+14 19 20.9	15.3	N		585
C/2015 VL_{62}	2017 07 18.99805	23 23 00.73	+14 19 20.3	15.4	N		585
C/2015 VL_{62}	2017 07 18.99876	23 23 00.62	+14 19 20.1	15.3	N		585
C/2015 VL_{62}	2017 07 19.02048	23 22 57.54	+14 19 09.8	15.7	N	K	160
C/2015 VL_{62}	2017 07 19.02327	23 22 57.10	+14 19 08.6	16.5	N	K	160
C/2015 VL_{62}	2017 07 19.02604	23 22 56.71	+14 19 07.5	16.4	N	K	160
C/2015 VL_{62}	2017 07 19.13352	23 22 41.39	+14 18 15.1	15.5	N		J22
C/2015 VL_{62}	2017 07 19.13740	23 22 40.83	+14 18 13.2	15.5	N		J22
C/2015 VL_{62}	2017 07 19.14125	23 22 40.29	+14 18 11.6	15.5	N		J22
C/2015 VL_{62}	2017 07 19.75660	23 21 11.78	+14 13 01.6			K	367
C/2015 VL_{62}	2017 07 19.75822	23 21 11.55	+14 13 00.6			K	367
C/2015 VL_{62}	2017 07 19.75943	23 21 11.38	+14 13 00.1	14.0	T	K	367
C/2015 VL_{62}	2017 07 19.95797	23 20 42.61	+14 11 18.1	16.5	N	K	160
C/2015 VL_{62}	2017 07 19.96067	23 20 42.21	+14 11 16.6	16.4	N	K	160
C/2015 VL_{62}	2017 07 19.96318	23 20 41.85	+14 11 15.3	16.5	N	K	160
C/2015 VL_{62}	2017 07 19.96749	23 20 41.14	+14 11 13.2	15.7	N		K83
C/2015 VL_{62}	2017 07 19.96874	23 20 41.03	+14 11 12.1	15.4	N		K83
C/2015 VL_{62}	2017 07 19.97348	23 20 40.37	+14 11 09.2	15.2	N		K83
C/2015 VL_{62}	2017 07 19.97545	23 20 40.07	+14 11 08.1	15.3	N		K83
C/2015 VL_{62}	2017 07 20.39556	23 19 38.33	+14 07 29.4	15.6	N	K	H47
C/2015 VL_{62}	2017 07 20.40519	23 19 36.84	+14 07 24.5	15.6	N	K	H47
C/2015 VL_{62}	2017 07 20.41535	23 19 35.37	+14 07 18.8	15.5	N	K	H47
C/2015 VL_{62}	2017 07 20.97264	23 18 12.68	+14 02 18.9	15.4	N		Z55
C/2015 VL_{62}	2017 07 20.97516	23 18 12.29	+14 02 16.8	15.4	N		Z55
C/2015 VL_{62}	2017 07 20.97628	23 18 12.23	+14 02 16.7	15.3	N		Z55
C/2015 VL_{62}	2017 07 20.97723	23 18 12.01	+14 02 16.4	15.3	N		Z55
C/2015 VL_{62}	2017 07 20.97882	23 18 11.70	+14 02 15.6	15.3	N		Z55
C/2015 VL_{62}	2017 07 21.03420	23 18 03.44	+14 01 45.2	15.4	N		212
C/2015 VL_{62}	2017 07 21.03708	23 18 03.01	+14 01 43.7	15.4	N		212
C/2015 VL_{62}	2017 07 21.03998	23 18 02.54	+14 01 42.6	15.4	N		212
C/2015 VL_{62}	2017 07 21.06541	23 17 58.60	+14 01 28.0	16.3	N		K02
C/2015 VL_{62}	2017 07 21.07157	23 17 57.72	+14 01 24.3	16.4	N		K02
C/2015 VL_{62}	2017 07 21.07774	23 17 56.80	+14 01 20.7	15.5	N		K02
C/2015 VL_{62}	2017 07 22.55350	23 14 10.84	+13 47 20.3	15.4	T		T08
C/2015 VL_{62}	2017 07 22.56490	23 14 09.00	+13 47 13.5	15.7	T		T08
C/2015 VL_{62}	2017 07 22.56992	23 14 08.21	+13 47 10.5	15.7	T		T08
C/2015 VL_{62}	2017 07 22.58140	23 14 06.48	+13 47 03.8	15.2	T		T08
C/2015 VL_{62}	2017 07 22.91003	23 13 14.97	+13 43 45.1	15.2	N		C36
C/2015 VL_{62}	2017 07 22.91179	23 13 14.69	+13 43 43.6	15.4	N		C36
C/2015 VL_{62}	2017 07 22.91354	23 13 14.38	+13 43 42.4	15.3	N		C36
C/2015 VL_{62}	2017 07 22.91530	23 13 14.09	+13 43 41.2	15.4	N		C36
C/2015 VL_{62}	2017 07 22.92057	23 13 13.27	+13 43 38.4	15.3	N		C36
C/2015 VL_{62}	2017 07 22.92233	23 13 13.02	+13 43 37.9	15.2	N		C36
C/2015 VL_{62}	2017 07 22.92583	23 13 12.46	+13 43 35.2	15.2	N		C36
C/2015 VL_{62}	2017 07 22.92759	23 13 12.16	+13 43 34.1	15.2	N		C36
C/2015 VL_{62}	2017 07 22.96604	23 13 06.26	+13 43 10.8	15.2	N		I72
C/2015 VL_{62}	2017 07 22.96683	23 13 06.12	+13 43 11.2	15.2	N		I72
C/2015 VL_{62}	2017 07 22.99535	23 13 01.58	+13 42 54.0	15.1	N		I72
C/2015 VL_{62}	2017 07 23.07036	23 12 49.70	+13 42 09.7	15.6	N	9	G40
C/2015 VL_{62}	2017 07 23.07323	23 12 49.24	+13 42 07.9	15.5	N	9	G40
C/2015 VL_{62}	2017 07 23.08016	23 12 48.12	+13 42 03.8	15.5	N	9	G40
C/2015 VL_{62}	2017 07 23.08370	23 12 47.57	+13 42 01.7	15.5	N	9	G40
C/2015 VL_{62}	2017 07 23.37411	23 12 01.39	+13 39 02.3	15.4	N	K	H47
C/2015 VL_{62}	2017 07 23.37941	23 12 00.53	+13 38 59.1	15.7	N	K	H47
C/2015 VL_{62}	2017 07 23.38409	23 11 59.77	+13 38 56.4	15.5	N	K	H47
C/2015 VL_{62}	2017 07 23.98507	23 10 23.43	+13 32 39.2	15.3	N		Z55
C/2015 VL_{62}	2017 07 23.98612	23 10 23.32	+13 32 39.0	15.3	N		Z55
C/2015 VL_{62}	2017 07 23.98694	23 10 23.14	+13 32 38.1	15.4	N		Z55
C/2015 VL_{62}	2017 07 23.98773	23 10 23.00	+13 32 38.0	15.3	N		Z55
C/2015 VL_{62}	2017 07 24.56094	23 08 49.46	+13 26 27.5	16.2	T		T05
C/2015 VL_{62}	2017 07 24.56143	23 08 49.38	+13 26 27.1	16.1	T		T05
C/2015 VL_{62}	2017 07 24.57083	23 08 47.84	+13 26 21.2	16.1	T		T05
C/2015 VL_{62}	2017 07 24.58500	23 08 45.49	+13 26 11.8	16.1	T		T05
C/2015 VL_{62}	2017 07 24.75258	23 08 17.96	+13 24 24.4	15.1	N	N	Q62
C/2015 VL_{62}	2017 07 24.75383	23 08 17.76	+13 24 23.6	15.1	N	N	Q62
C/2015 VL_{62}	2017 07 25.30313	23 06 46.73	+13 18 14.6	15.5	N		W96
C/2015 VL_{62}	2017 07 25.33250	23 06 41.77	+13 17 54.2	15.5	N		W96
C/2015 VL_{62}	2017 07 26.03407	23 04 43.63	+13 09 43.9	16.4	N		K02
C/2015 VL_{62}	2017 07 26.04024	23 04 42.58	+13 09 39.5	16.1	N		K02
C/2015 VL_{62}	2017 07 26.04800	23 04 41.26	+13 09 33.5	15.5	N		K02
C/2015 VL_{62}	2017 07 26.93168	23 02 09.81	+12 58 58.6	15.2	N		I72
C/2015 VL_{62}	2017 07 26.93245	23 02 09.63	+12 58 58.5	15.3	N		I72
C/2015 VL_{62}	2017 07 26.93323	23 02 09.45	+12 58 57.5	15.2	N		I72

C/2015 VL_{62}	2017 07 26.96878	23 02 03.16	+12 58 30.0	14.9	N		C36
C/2015 VL_{62}	2017 07 26.96966	23 02 03.02	+12 58 29.3	14.9	N		C36
C/2015 VL_{62}	2017 07 26.97572	23 02 01.94	+12 58 24.9	14.9	N		C36
C/2015 VL_{62}	2017 07 26.97660	23 02 01.77	+12 58 24.4	15.0	N		C36
C/2015 VL_{62}	2017 07 26.97836	23 02 01.45	+12 58 22.6	14.8	N		C36
C/2015 VL_{62}	2017 07 27.15120	23 01 31.40	+12 56 17.7	15.3	N		J22
C/2015 VL_{62}	2017 07 27.15507	23 01 30.69	+12 56 14.8	15.3	N		J22
C/2015 VL_{62}	2017 07 27.15896	23 01 30.06	+12 56 12.2	15.3	N		J22
C/2015 VL_{62}	2017 07 27.36445	23 00 54.22	+12 53 38.1	15.6	N	K	H47
C/2015 VL_{62}	2017 07 27.36960	23 00 53.30	+12 53 34.3	15.3	N	K	H47
C/2015 VL_{62}	2017 07 27.37530	23 00 52.30	+12 53 30.0	15.3	N	K	H47
C/2015 VL_{62}	2017 07 27.93051	22 59 14.63	+12 46 27.5	15.6	N		B96
C/2015 VL_{62}	2017 07 27.93214	22 59 14.38	+12 46 26.2	15.7	N		B96
C/2015 VL_{62}	2017 07 27.93377	22 59 14.07	+12 46 25.5	15.7	N		B96
C/2015 VL_{62}	2017 07 27.93541	22 59 13.78	+12 46 24.3	15.6	N		B96
C/2015 VL_{62}	2017 07 27.93704	22 59 13.50	+12 46 22.4	15.6	N		B96
C/2015 VL_{62}	2017 07 28.04105	22 58 54.96	+12 45 02.9	16.6	N		K02
C/2015 VL_{62}	2017 07 28.04346	22 58 54.52	+12 45 00.6	15.9	N		C23
C/2015 VL_{62}	2017 07 28.04723	22 58 53.82	+12 44 57.7	16.5	N		K02
C/2015 VL_{62}	2017 07 28.04830	22 58 53.62	+12 44 57.8	16.4	N	K	160
C/2015 VL_{62}	2017 07 28.05086	22 58 53.16	+12 44 55.9	16.5	N	K	160
C/2015 VL_{62}	2017 07 28.05094	22 58 53.21	+12 44 54.8	15.3	N		C23
C/2015 VL_{62}	2017 07 28.05341	22 58 52.73	+12 44 53.6	16.4	N	K	160
C/2015 VL_{62}	2017 07 28.05344	22 58 52.75	+12 44 53.4	16.6	N		K02
C/2015 VL_{62}	2017 07 28.05768	22 58 52.02	+12 44 49.5	15.4	N		C23
C/2015 VL_{62}	2017 07 28.08891	22 58 46.42	+12 44 26.4	15.2	N		J01
C/2015 VL_{62}	2017 07 28.09804	22 58 44.78	+12 44 19.1	15.1	N		J01
C/2015 VL_{62}	2017 07 28.11617	22 58 41.54	+12 44 04.9	15.1	N		J01
C/2015 VL_{62}	2017 07 28.35340	22 57 59.24	+12 41 00.6	15.6	N		H47
C/2015 VL_{62}	2017 07 28.35797	22 57 58.41	+12 40 56.9	15.5	N		H47
C/2015 VL_{62}	2017 07 28.36023	22 57 58.02	+12 40 55.3	15.4	N		H47
C/2015 VL_{62}	2017 07 28.36400	22 57 57.45	+12 40 52.6	15.8	N		H47
C/2015 VL_{62}	2017 07 28.77053	22 56 44.42	+12 35 31.0	15.9	N		193
C/2015 VL_{62}	2017 07 28.77170	22 56 44.20	+12 35 30.1	15.9	N		193
C/2015 VL_{62}	2017 07 28.77286	22 56 44.00	+12 35 29.3	16.4	N		193
C/2015 VL_{62}	2017 07 28.77403	22 56 43.79	+12 35 28.0	16.2	N		193
C/2015 VL_{62}	2017 07 28.77520	22 56 43.61	+12 35 27.1	15.5	N		193
C/2015 VL_{62}	2017 07 28.77635	22 56 43.36	+12 35 26.1	16.3	N		193
C/2015 VL_{62}	2017 07 28.77752	22 56 43.13	+12 35 25.4	15.6	N		193
C/2015 VL_{62}	2017 07 28.78211	22 56 42.31	+12 35 21.9	16.0	N		193
C/2015 VL_{62}	2017 07 28.78328	22 56 42.09	+12 35 21.0	16.0	N		193
C/2015 VL_{62}	2017 07 28.78443	22 56 41.85	+12 35 20.0	15.4	N		193
C/2015 VL_{62}	2017 07 28.78677	22 56 41.48	+12 35 18.1	15.9	N		193
C/2015 VL_{62}	2017 07 28.79146	22 56 40.67	+12 35 13.9	15.5	N		193
C/2015 VL_{62}	2017 07 28.79309	22 56 40.29	+12 35 13.0	16.3	N		193
C/2015 VL_{62}	2017 07 28.79390	22 56 40.20	+12 35 12.1	15.6	N		193
C/2015 VL_{62}	2017 07 28.79472	22 56 40.03	+12 35 11.6	15.5	N		193
C/2015 VL_{62}	2017 07 28.79554	22 56 39.90	+12 35 10.8	15.6	N		193
C/2015 VL_{62}	2017 07 28.79635	22 56 39.75	+12 35 10.2	15.4	N		193
C/2015 VL_{62}	2017 07 28.79799	22 56 39.45	+12 35 08.9	15.4	N		193
C/2015 VL_{62}	2017 07 28.80560	22 56 38.00	+12 35 03.0	15.4	N		193
C/2015 VL_{62}	2017 07 28.80664	22 56 37.88	+12 35 02.3	15.4	N		193
C/2015 VL_{62}	2017 07 28.80979	22 56 37.31	+12 35 00.1	15.2	N		193
C/2015 VL_{62}	2017 07 29.00798	22 56 01.47	+12 32 19.5	15.8	N	K	A71
C/2015 VL_{62}	2017 07 29.01356	22 56 00.49	+12 32 15.2	15.9	N	K	A71
C/2015 VL_{62}	2017 07 29.01800	22 55 59.52	+12 32 12.2	17.3	N		C47
C/2015 VL_{62}	2017 07 29.02006	22 55 59.29	+12 32 09.7	15.8	N	K	A71
C/2015 VL_{62}	2017 07 29.02096	22 55 58.98	+12 32 09.8	17.2	N		C47
C/2015 VL_{62}	2017 07 29.02428	22 55 58.36	+12 32 07.0	17.2	N		C47
C/2015 VL_{62}	2017 07 29.02760	22 55 57.76	+12 32 04.2	17.1	N		C47
C/2015 VL_{62}	2017 07 29.03092	22 55 57.21	+12 32 01.4	17.3	N		C47
C/2015 VL_{62}	2017 07 29.03424	22 55 56.56	+12 31 58.8	17.0	N		C47
C/2015 VL_{62}	2017 07 29.58456	22 54 16.16	+12 24 35.7	17.7	N		467
C/2015 VL_{62}	2017 07 29.58582	22 54 15.99	+12 24 35.0	17.8	N		467
C/2015 VL_{62}	2017 07 29.58708	22 54 15.70	+12 24 33.6	17.5	N		467
C/2015 VL_{62}	2017 07 29.78575	22 53 39.26	+12 21 43.2	15.7	N		193
C/2015 VL_{62}	2017 07 29.78657	22 53 39.13	+12 21 42.4	15.8	N		193
C/2015 VL_{62}	2017 07 29.78740	22 53 38.96	+12 21 42.0	16.1	N		193
C/2015 VL_{62}	2017 07 29.78821	22 53 38.81	+12 21 41.3	16.1	N		193
C/2015 VL_{62}	2017 07 29.78903	22 53 38.65	+12 21 40.7	16.2	N		193
C/2015 VL_{62}	2017 07 29.78984	22 53 38.51	+12 21 40.0	15.9	N		193
C/2015 VL_{62}	2017 07 29.79066	22 53 38.36	+12 21 39.2	16.0	N		193
C/2015 VL_{62}	2017 07 29.79148	22 53 38.22	+12 21 38.6	15.8	N		193
C/2015 VL_{62}	2017 07 29.79229	22 53 38.04	+12 21 38.1	16.5	N		193
C/2015 VL_{62}	2017 07 29.79311	22 53 37.89	+12 21 37.3	16.2	N		193
C/2015 VL_{62}	2017 07 29.79394	22 53 37.74	+12 21 36.5	16.1	N		193
C/2015 VL_{62}	2017 07 29.79475	22 53 37.59	+12 21 35.9	15.9	N		193
C/2015 VL_{62}	2017 07 29.80458	22 53 35.77	+12 21 27.8	16.1	N		193
C/2015 VL_{62}	2017 07 29.80541	22 53 35.60	+12 21 27.1	16.1	N		193
C/2015 VL_{62}	2017 07 29.80622	22 53 35.45	+12 21 26.3	16.0	N		193
C/2015 VL_{62}	2017 07 29.80704	22 53 35.30	+12 21 25.7	16.1	N		193
C/2015 VL_{62}	2017 07 29.80785	22 53 35.13	+12 21 25.2	16.3	N		193
C/2015 VL_{62}	2017 07 29.80867	22 53 35.02	+12 21 24.3	16.0	N		193
C/2015 VL_{62}	2017 07 29.80949	22 53 34.84	+12 21 23.7	16.2	N		193
C/2015 VL_{62}	2017 07 29.81030	22 53 34.70	+12 21 23.0	16.2	N		193
C/2015 VL_{62}	2017 07 29.81112	22 53 34.54	+12 21 22.5	16.3	N		193
C/2015 VL_{62}	2017 07 29.81194	22 53 34.40	+12 21 21.7	16.1	N		193
C/2015 VL_{62}	2017 07 29.81275	22 53 34.29	+12 21 20.9	16.3	N		193
C/2015 VL_{62}	2017 07 29.81358	22 53 34.08	+12 21 20.2	16.0	N		193
C/2015 VL_{62}	2017 07 29.82640	22 53 31.73	+12 21 09.5	16.1	N		193
C/2015 VL_{62}	2017 07 29.82744	22 53 31.52	+12 21 08.6	16.1	N		193
C/2015 VL_{62}	2017 07 29.82850	22 53 31.33	+12 21 07.9	16.2	N		193
C/2015 VL_{62}	2017 07 29.82955	22 53 31.13	+12 21 07.0	16.1	N		193
C/2015 VL_{62}	2017 07 29.83059	22 53 30.92	+12 21 05.9	15.8	N		193
C/2015 VL_{62}	2017 07 29.83164	22 53 30.73	+12 21 05.1	16.0	N		193
C/2015 VL_{62}	2017 07 29.83269	22 53 30.54	+12 21 04.3	16.0	N		193
C/2015 VL_{62}	2017 07 29.83374	22 53 30.35	+12 21 03.4	16.1	N		193
C/2015 VL_{62}	2017 07 29.83479	22 53 30.15	+12 21 02.6	16.2	N		193
C/2015 VL_{62}	2017 07 29.83583	22 53 29.96	+12 21 01.7	16.0	N		193
C/2015 VL_{62}	2017 07 29.84626	22 53 28.01	+12 20 53.0	15.8	N		193
C/2015 VL_{62}	2017 07 29.84731	22 53 27.81	+12 20 52.0	16.2	N		193
C/2015 VL_{62}	2017 07 29.84837	22 53 27.65	+12 20 51.1	16.2	N		193
C/2015 VL_{62}	2017 07 29.84941	22 53 27.47	+12 20 50.6	15.9	N		193
C/2015 VL_{62}	2017 07 29.85046	22 53 27.25	+12 20 49.7	16.2	N		193
C/2015 VL_{62}	2017 07 29.85150	22 53 27.05	+12 20 48.8	15.8	N		193
C/2015 VL_{62}	2017 07 29.85256	22 53 26.82	+12 20 47.8	16.0	N		193

C/2015 VL_{62}	2017 07 29.85361	22 53 26.65	+12 20 47.0	15.9	N		193
C/2015 VL_{62}	2017 07 29.85465	22 53 26.46	+12 20 45.9	16.0	N		193
C/2015 VL_{62}	2017 07 29.85571	22 53 26.27	+12 20 45.3	16.0	N		193
C/2015 VL_{62}	2017 07 29.85675	22 53 26.05	+12 20 44.4	16.2	N		193
C/2015 VL_{62}	2017 07 29.91851	22 53 14.88	+12 19 51.4	15.4	N	K	K73
C/2015 VL_{62}	2017 07 29.92322	22 53 13.99	+12 19 47.9	15.4	N	K	K73
C/2015 VL_{62}	2017 07 29.95979	22 53 07.15	+12 19 17.4	15.3	N		Z55
C/2015 VL_{62}	2017 07 29.96150	22 53 06.94	+12 19 16.2	15.3	N		Z55
C/2015 VL_{62}	2017 07 29.96273	22 53 06.64	+12 19 15.0	15.3	N		Z55
C/2015 VL_{62}	2017 07 29.96396	22 53 06.44	+12 19 14.4	15.3	N		Z55
C/2015 VL_{62}	2017 07 30.04464	22 52 51.28	+12 18 06.0	17.3	N		C47
C/2015 VL_{62}	2017 07 30.04796	22 52 50.70	+12 18 03.2	17.4	N		C47
C/2015 VL_{62}	2017 07 30.05165	22 52 50.01	+12 18 00.0	16.5	N		C47
C/2015 VL_{62}	2017 07 30.05534	22 52 49.29	+12 17 56.9	17.4	N		C47
C/2015 VL_{62}	2017 07 30.05903	22 52 48.59	+12 17 54.1	17.4	N		C47
C/2015 VL_{62}	2017 07 30.06309	22 52 47.83	+12 17 50.3	17.3	N		C47
C/2015 VL_{62}	2017 07 30.27745	22 52 08.18	+12 14 49.6	16.4	N		KW25
C/2015 VL_{62}	2017 07 30.28782	22 52 06.21	+12 14 41.2	16.5	N		KW25
C/2015 VL_{62}	2017 07 30.40259	22 51 44.72	+12 13 02.6	16.0	N	K	H47
C/2015 VL_{62}	2017 07 30.41009	22 51 43.35	+12 12 56.4	15.9	N	K	H47
C/2015 VL_{62}	2017 07 30.52969	22 51 21.06	+12 11 14.8	15.8	T		T08
C/2015 VL_{62}	2017 07 30.53017	22 51 20.96	+12 11 14.4	15.7	T		T08
C/2015 VL_{62}	2017 07 30.53191	22 51 20.70	+12 11 17.4	17.1	N		467
C/2015 VL_{62}	2017 07 30.53316	22 51 20.47	+12 11 16.3	17.3	N		467
C/2015 VL_{62}	2017 07 30.53442	22 51 20.20	+12 11 15.4	17.4	N		467
C/2015 VL_{62}	2017 07 30.53737	22 51 19.62	+12 11 08.2	15.7	T		T08
C/2015 VL_{62}	2017 07 30.54933	22 51 17.35	+12 10 57.9	15.7	T		T08
C/2015 VL_{62}	2017 07 31.03537	22 49 46.04	+12 03 52.9	15.6	N	K	Z80
C/2015 VL_{62}	2017 07 31.03681	22 49 45.83	+12 03 51.9	15.5	N	K	Z80
C/2015 VL_{62}	2017 07 31.03827	22 49 45.52	+12 03 50.4	15.5	N	K	Z80
C/2015 VL_{62}	2017 07 31.03973	22 49 45.23	+12 03 49.6	15.6	N	K	Z80
C/2015 VL_{62}	2017 07 31.04118	22 49 44.97	+12 03 48.3	15.6	N	K	Z80
C/2015 VL_{62}	2017 07 31.04264	22 49 44.66	+12 03 46.5	15.6	N	K	Z80
C/2015 VL_{62}	2017 07 31.04409	22 49 44.42	+12 03 45.7	15.5	N	K	Z80
C/2015 VL_{62}	2017 07 31.04555	22 49 44.17	+12 03 43.9	15.6	N	K	Z80
C/2015 VL_{62}	2017 07 31.04701	22 49 43.86	+12 03 43.2	15.5	N	K	Z80
C/2015 VL_{62}	2017 07 31.92227	22 46 57.20	+11 50 41.8	15.2	T	K	C27
C/2015 VL_{62}	2017 07 31.93713	22 46 54.06	+11 50 29.2	16.6	N		193
C/2015 VL_{62}	2017 07 31.93969	22 46 53.57	+11 50 26.9	16.3	N		193
C/2015 VL_{62}	2017 07 31.94225	22 46 53.06	+11 50 24.6	16.7	N		193
C/2015 VL_{62}	2017 07 31.94481	22 46 52.58	+11 50 22.2	16.2	N		193
C/2015 VL_{62}	2017 07 31.94737	22 46 52.08	+11 50 19.9	16.3	N		193
C/2015 VL_{62}	2017 07 31.94799	22 46 52.30	+11 50 17.2	15.3	T	K	C27
C/2015 VL_{62}	2017 07 31.94993	22 46 51.60	+11 50 17.5	16.2	N		193
C/2015 VL_{62}	2017 07 31.95249	22 46 51.08	+11 50 15.2	16.3	N		193
C/2015 VL_{62}	2017 07 31.95505	22 46 50.63	+11 50 12.6	15.8	N		193
C/2015 VL_{62}	2017 07 31.95760	22 46 50.11	+11 50 10.5	16.2	N		193
C/2015 VL_{62}	2017 07 31.95925	22 46 49.91	+11 50 07.1	14.9	N		C36
C/2015 VL_{62}	2017 07 31.96013	22 46 49.71	+11 50 06.7	14.9	N		C36
C/2015 VL_{62}	2017 07 31.96016	22 46 49.63	+11 50 07.9	15.8	N		193
C/2015 VL_{62}	2017 07 31.96101	22 46 49.55	+11 50 05.6	14.8	N		C36
C/2015 VL_{62}	2017 07 31.96189	22 46 49.41	+11 50 04.6	14.9	N		C36
C/2015 VL_{62}	2017 07 31.96272	22 46 49.15	+11 50 05.8	16.3	N		193
C/2015 VL_{62}	2017 07 31.96277	22 46 49.21	+11 50 04.1	14.8	N		C36
C/2015 VL_{62}	2017 07 31.96423	22 46 49.13	+11 50 03.9	15.4	T	K	C27
C/2015 VL_{62}	2017 07 31.96453	22 46 48.91	+11 50 02.3	15.0	N		C36
C/2015 VL_{62}	2017 07 31.96529	22 46 48.63	+11 50 03.4	16.1	N		193
C/2015 VL_{62}	2017 07 31.96539	22 46 48.73	+11 50 01.6	14.9	N		C36
C/2015 VL_{62}	2017 07 31.96627	22 46 48.57	+11 50 00.7	15.0	N		C36
C/2015 VL_{62}	2017 07 31.96785	22 46 48.10	+11 50 01.3	16.2	N		193
C/2015 VL_{62}	2017 07 31.97041	22 46 47.63	+11 49 58.8	16.3	N		193
C/2015 VL_{62}	2017 07 31.97296	22 46 47.15	+11 49 56.6	16.5	N		193
C/2015 VL_{62}	2017 07 31.97409	22 46 47.20	+11 49 53.5	15.4	N		I81
C/2015 VL_{62}	2017 07 31.98120	22 46 45.86	+11 49 46.4	14.9	N		I81
C/2015 VL_{62}	2017 07 31.98688	22 46 44.78	+11 49 41.0	14.7	N		I81
C/2015 VL_{62}	2017 08 01.00404	22 46 41.34	+11 49 27.2	17.0	N		C47
C/2015 VL_{62}	2017 08 01.00699	22 46 40.76	+11 49 24.3	16.7	N		C47
C/2015 VL_{62}	2017 08 01.01031	22 46 40.13	+11 49 20.6	17.3	N		C47
C/2015 VL_{62}	2017 08 01.01363	22 46 39.48	+11 49 18.3	17.0	N		C47
C/2015 VL_{62}	2017 08 01.06509	22 46 29.62	+11 48 30.5	15.1	N		970
C/2015 VL_{62}	2017 08 01.07116	22 46 28.46	+11 48 25.2	15.0	N		970
C/2015 VL_{62}	2017 08 01.18372	22 46 07.04	+11 46 42.4	14.4	N		KW33
C/2015 VL_{62}	2017 08 01.19579	22 46 04.62	+11 46 31.6	14.3	N		KW33
C/2015 VL_{62}	2017 08 01.20785	22 46 02.26	+11 46 20.4	14.3	N		KW33
C/2015 VL_{62}	2017 08 01.38112	22 45 28.46	+11 43 41.0	15.6	N	K	H47
C/2015 VL_{62}	2017 08 01.38713	22 45 27.28	+11 43 35.4	15.5	N	K	H47
C/2015 VL_{62}	2017 08 01.39366	22 45 26.00	+11 43 29.3	15.5	N	K	H47
C/2015 VL_{62}	2017 08 01.53704	22 44 58.22	+11 41 17.5	16.0	T		T05
C/2015 VL_{62}	2017 08 01.55822	22 44 54.07	+11 40 57.5	15.9	T		T05
C/2015 VL_{62}	2017 08 01.55870	22 44 53.97	+11 40 57.1	16.0	T		T05
C/2015 VL_{62}	2017 08 01.74087	22 44 18.53	+11 38 05.9			K	367
C/2015 VL_{62}	2017 08 01.74208	22 44 18.31	+11 38 04.6			K	367
C/2015 VL_{62}	2017 08 01.74492	22 44 17.76	+11 38 02.0	13.9	T	K	367
C/2015 VL_{62}	2017 08 01.95179	22 43 37.55	+11 34 45.5	15.1	N		J38
C/2015 VL_{62}	2017 08 01.95268	22 43 37.40	+11 34 44.9	15.1	N		J38
C/2015 VL_{62}	2017 08 01.95356	22 43 37.16	+11 34 44.6	15.2	N		J38
C/2015 VL_{62}	2017 08 03.14703	22 39 40.87	+11 15 29.0	15.1	N		B54
C/2015 VL_{62}	2017 08 03.14778	22 39 40.73	+11 15 28.3	15.2	N		B54
C/2015 VL_{62}	2017 08 03.14815	22 39 40.64	+11 15 27.5	15.1	N		B54
C/2015 VL_{62}	2017 08 03.15041	22 39 40.13	+11 15 25.7	15.1	N		B54
C/2015 VL_{62}	2017 08 03.49536	22 38 31.22	+11 09 43.2	15.7	T		T08
C/2015 VL_{62}	2017 08 03.51225	22 38 27.86	+11 09 25.9	15.3	T		T08
C/2015 VL_{62}	2017 08 03.51882	22 38 26.45	+11 09 19.7	15.6	T		T08
C/2015 VL_{62}	2017 08 03.53239	22 38 23.69	+11 09 06.2	15.7	T		T08
C/2015 VL_{62}	2017 08 04.03571	22 36 42.28	+11 00 34.3	16.5	N		B74
C/2015 VL_{62}	2017 08 04.04004	22 36 41.39	+11 00 29.9	16.5	N		B74
C/2015 VL_{62}	2017 08 04.04438	22 36 40.38	+11 00 26.0	16.5	N		B74
C/2015 VL_{62}	2017 08 04.26789	22 35 54.92	+10 56 41.2	15.4	N		W96
C/2015 VL_{62}	2017 08 04.27868	22 35 52.70	+10 56 30.2	15.4	N		W96
C/2015 VL_{62}	2017 08 04.28457	22 35 51.50	+10 56 23.0	15.6	N		W97
C/2015 VL_{62}	2017 08 04.29385	22 35 49.60	+10 56 14.4	15.4	N		W96
C/2015 VL_{62}	2017 08 04.29937	22 35 48.48	+10 56 09.0	15.4	N		W97
C/2015 VL_{62}	2017 08 04.30864	22 35 46.52	+10 55 59.3	15.4	N		W96
C/2015 VL_{62}	2017 08 04.39002	22 35 29.97	+10 54 30.5	15.5	N		H47
C/2015 VL_{62}	2017 08 04.39410	22 35 29.14	+10 54 26.3	15.4	N		H47
C/2015 VL_{62}	2017 08 04.39728	22 35 28.48	+10 54 23.1	15.5	N		H47

C/2015 VL_{62}	2017 08 04.40154	22 35 27.57	+10 54 18.6	15.4	N	H47
C/2015 VL_{62}	2017 08 04.91521	22 33 42.70	+10 45 21.2	15.5	N	595
C/2015 VL_{62}	2017 08 04.91606	22 33 42.65	+10 45 20.0	14.7	N	K14
C/2015 VL_{62}	2017 08 04.92052	22 33 41.65	+10 45 14.9	15.8	N	K14
C/2015 VL_{62}	2017 08 04.92278	22 33 41.15	+10 45 13.0	15.4	N	595
C/2015 VL_{62}	2017 08 04.92366	22 33 41.02	+10 45 11.7	14.7	N	K14
C/2015 VL_{62}	2017 08 04.92787	22 33 40.14	+10 45 08.0	15.8	N	K14
C/2015 VL_{62}	2017 08 04.93034	22 33 39.58	+10 45 05.2	15.8	N	595
C/2015 VL_{62}	2017 08 04.93209	22 33 39.32	+10 45 03.4	14.8	N	K14
C/2015 VL_{62}	2017 08 05.05321	22 33 14.13	+10 42 55.3	15.3	N	J01
C/2015 VL_{62}	2017 08 05.06475	22 33 11.72	+10 42 43.3	15.3	N	J01
C/2015 VL_{62}	2017 08 05.07164	22 33 10.38	+10 42 35.3	15.2	N	J01
C/2015 VL_{62}	2017 08 05.20644	22 32 42.66	+10 40 13.4	16.0	N	KW25
C/2015 VL_{62}	2017 08 05.21468	22 32 40.96	+10 40 04.8	15.8	N	KW25
C/2015 VL_{62}	2017 08 05.96244	22 30 05.73	+10 26 36.8	15.4	N	B96
C/2015 VL_{62}	2017 08 05.96409	22 30 05.38	+10 26 35.3	15.4	N	B96
C/2015 VL_{62}	2017 08 05.96572	22 30 05.03	+10 26 33.4	15.4	N	B96
C/2015 VL_{62}	2017 08 05.96735	22 30 04.69	+10 26 31.9	15.4	N	B96
C/2015 VL_{62}	2017 08 05.96898	22 30 04.39	+10 26 29.6	15.3	N	B96
C/2015 VL_{62}	2017 08 05.97033	22 30 04.07	+10 26 28.7	15.7	N	C23
C/2015 VL_{62}	2017 08 05.97061	22 30 04.04	+10 26 27.7	15.3	N	B96
C/2015 VL_{62}	2017 08 05.97557	22 30 03.01	+10 26 22.6	15.5	N	C23
C/2015 VL_{62}	2017 08 05.97707	22 30 02.66	+10 26 21.1	15.6	N	C23
C/2015 VL_{62}	2017 08 06.51035	22 28 10.83	+10 16 35.7	16.0	T	T05
C/2015 VL_{62}	2017 08 06.52574	22 28 07.55	+10 16 18.6	16.1	T	T05
C/2015 VL_{62}	2017 08 06.53284	22 28 06.04	+10 16 10.8	16.0	T	T05
C/2015 VL_{62}	2017 08 06.53333	22 28 05.95	+10 16 10.2	16.0	T	T05
C/2015 VL_{62}	2017 08 08.97500	22 19 24.38	+09 29 07.7	15.1	N	I72
C/2015 VL_{62}	2017 08 08.97656	22 19 24.03	+09 29 05.5	15.1	N	I72
C/2015 VL_{62}	2017 08 09.00428	22 19 18.01	+09 28 32.3	15.1	N	I72
C/2015 VL_{62}	2017 08 09.95894	22 15 49.65	+09 09 10.9	14.9	N	C36
C/2015 VL_{62}	2017 08 09.95981	22 15 49.43	+09 09 10.1	14.7	N	C36
C/2015 VL_{62}	2017 08 09.96069	22 15 49.27	+09 09 09.6	14.7	N	C36
C/2015 VL_{62}	2017 08 09.96245	22 15 48.93	+09 09 07.1	14.7	N	C36
C/2015 VL_{62}	2017 08 09.96333	22 15 48.69	+09 09 06.2	14.7	N	C36
C/2015 VL_{62}	2017 08 10.94799	22 12 12.00	+08 48 38.9	15.1	N	Z55
C/2015 VL_{62}	2017 08 10.94921	22 12 11.82	+08 48 36.7	15.2	N	Z55
C/2015 VL_{62}	2017 08 10.95001	22 12 11.68	+08 48 36.8	15.1	N	Z55
C/2015 VL_{62}	2017 08 10.95132	22 12 11.30	+08 48 35.3	15.0	N	Z55
C/2015 VL_{62}	2017 08 10.99921	22 12 00.62	+08 47 33.7	16.1	N	K02
C/2015 VL_{62}	2017 08 11.00385	22 11 59.64	+08 47 26.8	15.2	N	K02
C/2015 VL_{62}	2017 08 11.00850	22 11 58.58	+08 47 21.9	16.1	N	K02
C/2015 VL_{62}	2017 08 11.49954	22 10 09.66	+08 36 58.2	15.1	T	T08
C/2015 VL_{62}	2017 08 11.50841	22 10 07.67	+08 36 46.9	15.1	T	T08
C/2015 VL_{62}	2017 08 11.51728	22 10 05.69	+08 36 35.5	15.1	T	T08
C/2015 VL_{62}	2017 08 11.52610	22 10 03.70	+08 36 24.2	15.2	T	T08
C/2015 VL_{62}	2017 08 11.85862	22 08 49.85	+08 29 14.8	15.2	N	K K73
C/2015 VL_{62}	2017 08 11.87290	22 08 46.69	+08 28 55.9	15.1	N	K K73
C/2015 VL_{62}	2017 08 11.99287	22 08 19.82	+08 26 22.2	15.4	N	9 G40
C/2015 VL_{62}	2017 08 11.99708	22 08 18.86	+08 26 16.7	15.3	N	9 G40
C/2015 VL_{62}	2017 08 12.00053	22 08 18.06	+08 26 12.2	15.3	N	9 G40
C/2015 VL_{62}	2017 08 12.00515	22 08 17.05	+08 26 06.1	15.3	N	9 G40
C/2015 VL_{62}	2017 08 12.18716	22 07 36.28	+08 22 07.2	18.7	N	Z38
C/2015 VL_{62}	2017 08 12.18851	22 07 35.94	+08 22 06.1	14.9	N	Z38
C/2015 VL_{62}	2017 08 12.18965	22 07 35.59	+08 22 07.8	15.0	N	Z38
C/2015 VL_{62}	2017 08 12.59976	22 06 03.97	+08 13 09.0			900
C/2015 VL_{62}	2017 08 12.60691	22 06 02.36	+08 12 59.6	13.7	T	900
C/2015 VL_{62}	2017 08 12.91878	22 04 52.31	+08 06 07.7	15.5	N	K C27
C/2015 VL_{62}	2017 08 12.94253	22 04 46.95	+08 05 36.1	15.4	N	K C27
C/2015 VL_{62}	2017 08 12.94469	22 04 46.43	+08 05 33.5	16.1	N	K 160
C/2015 VL_{62}	2017 08 12.94810	22 04 45.66	+08 05 29.0	16.1	N	K 160
C/2015 VL_{62}	2017 08 12.95150	22 04 44.94	+08 05 23.9	15.2	N	K 160
C/2015 VL_{62}	2017 08 13.23711	22 03 40.58	+07 59 09.1	15.2	N	W96
C/2015 VL_{62}	2017 08 13.26650	22 03 33.87	+07 58 29.9	15.2	N	W96
C/2015 VL_{62}	2017 08 13.49612	22 02 42.14	+07 53 18.7	15.4	T	T05
C/2015 VL_{62}	2017 08 13.50517	22 02 40.10	+07 53 06.5	15.4	T	T05
C/2015 VL_{62}	2017 08 13.51433	22 02 38.00	+07 52 54.3	15.4	T	T05
C/2015 VL_{62}	2017 08 13.52347	22 02 35.93	+07 52 42.1	15.4	T	T05
C/2015 VL_{62}	2017 08 13.81198	22 01 30.97	+07 46 13.1	14.0	N	K K73
C/2015 VL_{62}	2017 08 13.82350	22 01 28.32	+07 45 55.2	13.7	N	K73
C/2015 VL_{62}	2017 08 13.88827	22 01 13.62	+07 44 28.4	13.8	N	C43
C/2015 VL_{62}	2017 08 13.89154	22 01 12.89	+07 44 23.5	13.8	N	C43
C/2015 VL_{62}	2017 08 13.89480	22 01 12.14	+07 44 19.8	13.8	N	C43
C/2015 VL_{62}	2017 08 13.89807	22 01 11.39	+07 44 15.2	13.7	N	C43
C/2015 VL_{62}	2017 08 13.90134	22 01 10.66	+07 44 10.7	13.8	N	C43
C/2015 VL_{62}	2017 08 13.94222	22 01 01.46	+07 43 16.1	15.0	N	Z50
C/2015 VL_{62}	2017 08 13.94353	22 01 01.14	+07 43 14.1	15.0	N	Z50
C/2015 VL_{62}	2017 08 13.94484	22 01 00.84	+07 43 12.2	14.9	N	Z50
C/2015 VL_{62}	2017 08 13.97236	22 00 54.51	+07 42 35.2	15.4	N	C27
C/2015 VL_{62}	2017 08 13.98836	22 00 50.89	+07 42 12.6	16.0	N	K02
C/2015 VL_{62}	2017 08 13.99454	22 00 49.49	+07 42 04.3	15.9	N	K02
C/2015 VL_{62}	2017 08 14.00072	22 00 48.11	+07 41 55.8	15.4	N	K02
C/2015 VL_{62}	2017 08 14.00999	22 00 45.93	+07 41 44.4	15.4	N	C27
C/2015 VL_{62}	2017 08 14.86732	21 57 31.48	+07 22 10.5	16.1	N	K 160
C/2015 VL_{62}	2017 08 14.87074	21 57 30.69	+07 22 05.8	16.1	N	K 160
C/2015 VL_{62}	2017 08 14.87310	21 57 30.22	+07 22 02.4	15.5	N	K14
C/2015 VL_{62}	2017 08 14.87417	21 57 29.91	+07 22 01.2	16.1	N	K 160
C/2015 VL_{62}	2017 08 14.87707	21 57 29.33	+07 21 57.0	15.1	N	K14
C/2015 VL_{62}	2017 08 14.87992	21 57 28.70	+07 21 52.8	14.6	N	K14
C/2015 VL_{62}	2017 08 14.88280	21 57 27.99	+07 21 49.5	15.4	N	K14
C/2015 VL_{62}	2017 08 14.88568	21 57 27.38	+07 21 45.0	14.6	N	K14
C/2015 VL_{62}	2017 08 14.88924	21 57 26.51	+07 21 40.3	15.4	N	K14
C/2015 VL_{62}	2017 08 14.89040	21 57 26.25	+07 21 37.8	15.1	N	C23
C/2015 VL_{62}	2017 08 14.89787	21 57 24.49	+07 21 28.8	15.1	N	C86
C/2015 VL_{62}	2017 08 14.89938	21 57 24.20	+07 21 25.5	15.3	N	C23
C/2015 VL_{62}	2017 08 14.89947	21 57 24.09	+07 21 25.9	15.0	N	C86
C/2015 VL_{62}	2017 08 14.90266	21 57 23.38	+07 21 21.5	15.1	N	C86
C/2015 VL_{62}	2017 08 14.90537	21 57 22.81	+07 21 17.2	15.5	N	C23
C/2015 VL_{62}	2017 08 14.97601	21 57 06.51	+07 19 38.7	14.7	N	C36
C/2015 VL_{62}	2017 08 14.97677	21 57 06.36	+07 19 37.7	14.7	N	C36
C/2015 VL_{62}	2017 08 14.97752	21 57 06.20	+07 19 36.6	14.7	N	C36
C/2015 VL_{62}	2017 08 14.98130	21 57 05.67	+07 19 33.6	14.8	N	C36
C/2015 VL_{62}	2017 08 15.00497	21 56 59.92	+07 18 59.7	16.9	N	C47
C/2015 VL_{62}	2017 08 15.00866	21 56 59.09	+07 18 54.7	15.6	N	C47
C/2015 VL_{62}	2017 08 15.01272	21 56 58.13	+07 18 49.0	17.0	N	C47
C/2015 VL_{62}	2017 08 15.01678	21 56 57.22	+07 18 43.6	16.2	N	C47

C/2015 VL_{62}	2017 08 15.02084	21 56 56.37	+07 18 37.3	16.8	N	C47
C/2015 VL_{62}	2017 08 15.02489	21 56 55.37	+07 18 32.3	17.0	N	C47
C/2015 VL_{62}	2017 08 15.13153	21 56 31.00	+07 16 05.9	15.1	N	J22
C/2015 VL_{62}	2017 08 15.13541	21 56 30.17	+07 16 01.1	15.1	N	J22
C/2015 VL_{62}	2017 08 15.13926	21 56 29.30	+07 15 56.1	15.1	N	J22
C/2015 VL_{62}	2017 08 15.47526	21 55 12.90	+07 08 07.4	15.1	T	T08
C/2015 VL_{62}	2017 08 15.48409	21 55 10.86	+07 07 55.2	15.1	T	T08
C/2015 VL_{62}	2017 08 15.49296	21 55 08.82	+07 07 42.9	15.1	T	T08
C/2015 VL_{62}	2017 08 15.50179	21 55 06.78	+07 07 30.5	15.1	T	T08
C/2015 VL_{62}	2017 08 15.84895	21 53 47.69	+06 59 22.2	15.7	N	K14
C/2015 VL_{62}	2017 08 15.85578	21 53 46.12	+06 59 12.8	15.2	N	K14
C/2015 VL_{62}	2017 08 15.86569	21 53 43.96	+06 58 58.5	14.8	N	K14
C/2015 VL_{62}	2017 08 15.86904	21 53 42.97	+06 58 54.2	15.5	N	108
C/2015 VL_{62}	2017 08 15.87006	21 53 42.81	+06 58 52.8	14.4	N	108
C/2015 VL_{62}	2017 08 15.87207	21 53 42.34	+06 58 49.9	15.6	N	108
C/2015 VL_{62}	2017 08 15.87308	21 53 42.10	+06 58 48.4	14.5	N	108
C/2015 VL_{62}	2017 08 15.87611	21 53 41.39	+06 58 44.4	15.6	N	108
C/2015 VL_{62}	2017 08 15.93535	21 53 27.79	+06 57 21.0	16.5	N	K 160
C/2015 VL_{62}	2017 08 15.93769	21 53 27.24	+06 57 17.8	16.5	N	K 160
C/2015 VL_{62}	2017 08 15.93976	21 53 26.78	+06 57 14.7	16.6	N	K 160
C/2015 VL_{62}	2017 08 15.98152	21 53 17.24	+06 56 15.0	15.3	N	K02
C/2015 VL_{62}	2017 08 15.98769	21 53 15.85	+06 56 06.4	16.3	N	K02
C/2015 VL_{62}	2017 08 15.99385	21 53 14.38	+06 55 57.7	15.3	N	K02
C/2015 VL_{62}	2017 08 16.04433	21 53 03.21	+06 54 53.2	15.0	T	Y00
C/2015 VL_{62}	2017 08 16.04531	21 53 03.04	+06 54 50.0	15.0	T	Y00
C/2015 VL_{62}	2017 08 16.04629	21 53 02.78	+06 54 49.1	15.1	T	Y00
C/2015 VL_{62}	2017 08 16.82049	21 50 05.36	+06 36 23.8	15.2	N	K A71
C/2015 VL_{62}	2017 08 16.82574	21 50 04.16	+06 36 16.4	15.1	N	K A71
C/2015 VL_{62}	2017 08 16.83098	21 50 02.97	+06 36 08.6	15.0	N	K A71
C/2015 VL_{62}	2017 08 16.83570	21 50 01.88	+06 36 02.3	15.2	N	K A71
C/2015 VL_{62}	2017 08 16.83989	21 50 00.88	+06 35 55.8	15.3	N	K A71
C/2015 VL_{62}	2017 08 16.89444	21 49 48.22	+06 34 38.5	15.6	N	K 160
C/2015 VL_{62}	2017 08 16.89719	21 49 47.59	+06 34 34.6	15.5	N	K 160
C/2015 VL_{62}	2017 08 16.89994	21 49 46.94	+06 34 30.5	16.2	N	K 160
C/2015 VL_{62}	2017 08 16.91101	21 49 44.56	+06 34 14.6	15.2	N	C86
C/2015 VL_{62}	2017 08 16.91502	21 49 43.63	+06 34 09.1	15.2	N	C86
C/2015 VL_{62}	2017 08 16.91700	21 49 43.09	+06 34 06.4	15.2	N	C86
C/2015 VL_{62}	2017 08 16.94278	21 49 37.14	+06 33 30.4	15.3	N	I88
C/2015 VL_{62}	2017 08 16.94434	21 49 36.82	+06 33 28.1	15.3	N	I88
C/2015 VL_{62}	2017 08 16.94670	21 49 36.23	+06 33 24.7	15.3	N	I88
C/2015 VL_{62}	2017 08 16.97498	21 49 29.62	+06 32 42.8	16.2	N	C47
C/2015 VL_{62}	2017 08 16.97756	21 49 29.02	+06 32 39.0	15.9	N	C47
C/2015 VL_{62}	2017 08 16.98052	21 49 28.35	+06 32 34.8	17.0	N	C47
C/2015 VL_{62}	2017 08 16.98347	21 49 27.66	+06 32 30.3	16.8	N	C47
C/2015 VL_{62}	2017 08 16.98642	21 49 26.98	+06 32 26.6	16.2	N	C47
C/2015 VL_{62}	2017 08 16.98937	21 49 26.27	+06 32 22.1	16.7	N	C47
C/2015 VL_{62}	2017 08 16.99306	21 49 25.41	+06 32 17.4	16.7	N	C47
C/2015 VL_{62}	2017 08 17.47349	21 47 35.31	+06 20 47.0	15.7	T	T05
C/2015 VL_{62}	2017 08 17.48366	21 47 32.96	+06 20 32.3	15.8	T	T05
C/2015 VL_{62}	2017 08 17.49336	21 47 30.71	+06 20 18.3	15.7	T	T05
C/2015 VL_{62}	2017 08 17.50359	21 47 28.33	+06 20 03.5	15.8	T	T05
C/2015 VL_{62}	2017 08 17.83326	21 46 12.82	+06 12 04.2	15.8	T	108
C/2015 VL_{62}	2017 08 17.83773	21 46 11.95	+06 11 57.6	14.5	N	108
C/2015 VL_{62}	2017 08 17.85119	21 46 08.68	+06 11 38.4	14.1	N	108
C/2015 VL_{62}	2017 08 17.94283	21 45 47.51	+06 09 24.8	15.2	N	K 160
C/2015 VL_{62}	2017 08 17.94527	21 45 46.94	+06 09 20.9			107
C/2015 VL_{62}	2017 08 17.94563	21 45 46.84	+06 09 20.9	16.2	N	K 160
C/2015 VL_{62}	2017 08 17.94842	21 45 46.19	+06 09 16.8	16.2	N	K 160
C/2015 VL_{62}	2017 08 17.94965	21 45 45.94	+06 09 14.6			107
C/2015 VL_{62}	2017 08 17.95451	21 45 44.80	+06 09 07.0			107
C/2015 VL_{62}	2017 08 17.95938	21 45 43.70	+06 09 00.2			107
C/2015 VL_{62}	2017 08 17.97883	21 45 39.23	+06 08 32.5	15.0	N	Z50
C/2015 VL_{62}	2017 08 17.98135	21 45 38.67	+06 08 29.0	15.0	N	Z50
C/2015 VL_{62}	2017 08 17.98264	21 45 38.35	+06 08 26.7	15.1	N	Z50
C/2015 VL_{62}	2017 08 18.87169	21 42 14.02	+05 46 43.6	16.1	N	K A71
C/2015 VL_{62}	2017 08 18.87834	21 42 12.50	+05 46 33.8	15.6	N	K A71
C/2015 VL_{62}	2017 08 18.88430	21 42 11.18	+05 46 24.6	14.9	N	C23
C/2015 VL_{62}	2017 08 18.88498	21 42 10.97	+05 46 24.3	15.8	N	K A71
C/2015 VL_{62}	2017 08 18.88697	21 42 10.53	+05 46 20.9	15.5	N	C23
C/2015 VL_{62}	2017 08 18.88922	21 42 10.02	+05 46 17.4	15.0	N	C23
C/2015 VL_{62}	2017 08 18.89107	21 42 09.58	+05 46 15.3	15.7	N	K A71
C/2015 VL_{62}	2017 08 18.89467	21 42 08.71	+05 46 10.1	15.0	N	K 160
C/2015 VL_{62}	2017 08 18.89605	21 42 08.40	+05 46 07.8	15.8	N	K A71
C/2015 VL_{62}	2017 08 18.89700	21 42 08.14	+05 46 07.0	16.1	N	K 160
C/2015 VL_{62}	2017 08 18.89909	21 42 07.67	+05 46 03.7	16.1	N	K 160
C/2015 VL_{62}	2017 08 18.94742	21 41 56.56	+05 44 52.3	15.4	N	K14
C/2015 VL_{62}	2017 08 18.95079	21 41 55.83	+05 44 47.2	14.6	N	K14
C/2015 VL_{62}	2017 08 18.95243	21 41 55.44	+05 44 44.7	15.1	N	J01
C/2015 VL_{62}	2017 08 18.95404	21 41 55.08	+05 44 42.4	14.5	N	K14
C/2015 VL_{62}	2017 08 18.95694	21 41 54.42	+05 44 38.9	15.1	N	J01
C/2015 VL_{62}	2017 08 18.97346	21 41 50.53	+05 44 13.6	15.1	N	J01
C/2015 VL_{62}	2017 08 19.20912	21 40 56.28	+05 38 30.4	15.2	N	W96
C/2015 VL_{62}	2017 08 19.25419	21 40 45.85	+05 37 23.6	15.2	N	W96
C/2015 VL_{62}	2017 08 19.99394	21 37 55.76	+05 18 57.3	16.1	N	K97
C/2015 VL_{62}	2017 08 20.00633	21 37 52.88	+05 18 38.4	16.0	N	K97
C/2015 VL_{62}	2017 08 20.01816	21 37 50.16	+05 18 20.5	16.0	N	K97
C/2015 VL_{62}	2017 08 20.87512	21 34 33.47	+04 56 53.8	15.0	N	Z55
C/2015 VL_{62}	2017 08 20.87576	21 34 33.38	+04 56 55.2	15.1	N	Z55
C/2015 VL_{62}	2017 08 20.87741	21 34 32.91	+04 56 51.9	15.0	N	Z55
C/2015 VL_{62}	2017 08 20.87806	21 34 32.75	+04 56 50.3	15.0	N	Z55
C/2015 VL_{62}	2017 08 20.89584	21 34 28.44	+04 56 20.6	14.9	N	C36
C/2015 VL_{62}	2017 08 20.89917	21 34 27.73	+04 56 15.9	15.1	N	C36
C/2015 VL_{62}	2017 08 20.90249	21 34 26.92	+04 56 11.5	15.0	N	C36
C/2015 VL_{62}	2017 08 20.90359	21 34 26.64	+04 56 09.4	15.1	N	C36
C/2015 VL_{62}	2017 08 20.90581	21 34 26.12	+04 56 05.8	15.2	N	C36
C/2015 VL_{62}	2017 08 20.93880	21 34 18.73	+04 55 17.3	15.0	N	Z50
C/2015 VL_{62}	2017 08 20.94139	21 34 18.14	+04 55 13.5	15.0	N	Z50
C/2015 VL_{62}	2017 08 20.94273	21 34 17.82	+04 55 11.4	15.0	N	Z50
C/2015 VL_{62}	2017 08 20.96886	21 34 11.68	+04 54 31.6	16.1	N	K 160
C/2015 VL_{62}	2017 08 20.97162	21 34 11.04	+04 54 27.4	16.2	N	K 160
C/2015 VL_{62}	2017 08 20.97440	21 34 10.44	+04 54 23.2	15.8	N	K 160
C/2015 VL_{62}	2017 08 21.00096	21 34 04.33	+04 53 43.1	15.9	N	K97
C/2015 VL_{62}	2017 08 21.00750	21 34 02.81	+04 53 33.2	16.0	N	K97
C/2015 VL_{62}	2017 08 21.01225	21 34 01.70	+04 53 26.1	16.0	N	K97
C/2015 VL_{62}	2017 08 21.08013	21 33 46.08	+04 51 43.2	14.8	T	583
C/2015 VL_{62}	2017 08 21.08117	21 33 45.85	+04 51 41.3	14.9	T	583

C/2015 VL_{62}	2017 08 21.08152	21 33 45.76	+04 51 41.0	14.5	T	583
C/2015 VL_{62}	2017 08 21.08186	21 33 45.64	+04 51 40.3	14.7	T	583
C/2015 VL_{62}	2017 08 21.08221	21 33 45.54	+04 51 39.9	14.8	T	583
C/2015 VL_{62}	2017 08 21.08256	21 33 45.56	+04 51 39.2	14.5	T	583
C/2015 VL_{62}	2017 08 21.46509	21 32 17.80	+04 42 01.6	15.9	T	T05
C/2015 VL_{62}	2017 08 21.47454	21 32 15.69	+04 41 47.4	15.8	T	T05
C/2015 VL_{62}	2017 08 21.48459	21 32 13.35	+04 41 32.1	15.9	T	T05
C/2015 VL_{62}	2017 08 21.70076	21 31 24.01	+04 36 03.9	16.1	N	C97
C/2015 VL_{62}	2017 08 21.74974	21 31 12.75	+04 34 49.5	16.0	N	C97
C/2015 VL_{62}	2017 08 21.78793	21 31 03.97	+04 33 51.5	16.2	N	C97
C/2015 VL_{62}	2017 08 21.80926	21 30 59.12	+04 33 16.8	15.7	N	108
C/2015 VL_{62}	2017 08 21.81015	21 30 58.90	+04 33 15.9	15.8	N	108
C/2015 VL_{62}	2017 08 21.81373	21 30 58.15	+04 33 09.6	14.2	N	108
C/2015 VL_{62}	2017 08 21.81819	21 30 57.08	+04 33 03.3	15.9	N	108
C/2015 VL_{62}	2017 08 21.99134	21 30 17.36	+04 28 41.2	15.1	N	J22
C/2015 VL_{62}	2017 08 21.99314	21 30 16.99	+04 28 38.7	15.1	N	J22
C/2015 VL_{62}	2017 08 21.99493	21 30 16.59	+04 28 34.7	15.1	N	J22
C/2015 VL_{62}	2017 08 22.00449	21 30 14.20	+04 28 19.9	16.1	N	J27
C/2015 VL_{62}	2017 08 22.00802	21 30 13.39	+04 28 14.4	15.1	N	J27
C/2015 VL_{62}	2017 08 22.01136	21 30 12.71	+04 28 08.9	16.3	N	J27
C/2015 VL_{62}	2017 08 22.31626	21 29 02.76	+04 20 24.2	15.4	N	H47
C/2015 VL_{62}	2017 08 22.31856	21 29 02.31	+04 20 19.7	15.0	N	H47
C/2015 VL_{62}	2017 08 22.81734	21 27 08.58	+04 07 35.5	15.7	N	108
C/2015 VL_{62}	2017 08 22.81913	21 27 08.08	+04 07 33.2	15.0	N	108
C/2015 VL_{62}	2017 08 22.82270	21 27 07.28	+04 07 27.7	15.5	N	108
C/2015 VL_{62}	2017 08 22.87735	21 26 54.86	+04 06 03.9	15.3	N	C35
C/2015 VL_{62}	2017 08 22.88184	21 26 53.80	+04 05 57.1	15.3	N	C35
C/2015 VL_{62}	2017 08 22.88409	21 26 53.22	+04 05 53.9	15.4	N	C35
C/2015 VL_{62}	2017 08 22.89421	21 26 50.85	+04 05 38.0	16.3	N	K 160
C/2015 VL_{62}	2017 08 22.89694	21 26 50.22	+04 05 33.7	16.3	N	K 160
C/2015 VL_{62}	2017 08 22.89967	21 26 49.60	+04 05 29.5	16.2	N	K 160
C/2015 VL_{62}	2017 08 22.90928	21 26 47.41	+04 05 15.1	17.1	N	C47
C/2015 VL_{62}	2017 08 22.91998	21 26 44.94	+04 04 58.3	17.2	N	C47
C/2015 VL_{62}	2017 08 22.92662	21 26 43.38	+04 04 47.8	16.8	N	C47
C/2015 VL_{62}	2017 08 22.93105	21 26 42.39	+04 04 41.5	15.6	N	C47
C/2015 VL_{62}	2017 08 22.93843	21 26 40.83	+04 04 29.6	16.9	N	C47
C/2015 VL_{62}	2017 08 23.00920	21 26 24.49	+04 02 41.2	15.9	N	K97
C/2015 VL_{62}	2017 08 23.02291	21 26 21.35	+04 02 20.0	15.9	N	K97
C/2015 VL_{62}	2017 08 23.18669	21 25 44.24	+03 58 08.6	14.5	T	V83
C/2015 VL_{62}	2017 08 23.19427	21 25 42.47	+03 57 56.9	15.0	T	V83
C/2015 VL_{62}	2017 08 23.20236	21 25 40.55	+03 57 44.0	16.7	T	V83
C/2015 VL_{62}	2017 08 23.21104	21 25 38.57	+03 57 30.6	16.0	T	V83
C/2015 VL_{62}	2017 08 23.21832	21 25 37.01	+03 57 20.1	14.3	T	V83
C/2015 VL_{62}	2017 08 23.23418	21 25 33.29	+03 56 55.8	16.5	T	V83
C/2015 VL_{62}	2017 08 23.29751	21 25 18.76	+03 55 18.5	15.3	N	K H47
C/2015 VL_{62}	2017 08 23.30628	21 25 16.71	+03 55 05.2	15.7	N	K H47
C/2015 VL_{62}	2017 08 23.31212	21 25 15.41	+03 54 56.0	15.1	N	K H47
C/2015 VL_{62}	2017 08 23.94283	21 22 51.99	+03 38 42.3	16.0	N	C47
C/2015 VL_{62}	2017 08 23.94652	21 22 51.12	+03 38 36.8	16.8	N	C47
C/2015 VL_{62}	2017 08 23.95058	21 22 50.21	+03 38 30.4	16.9	N	C47
C/2015 VL_{62}	2017 08 23.95463	21 22 49.26	+03 38 24.2	16.7	N	C47
C/2015 VL_{62}	2017 08 23.95869	21 22 48.37	+03 38 17.8	15.7	N	C47
C/2015 VL_{62}	2017 08 23.96275	21 22 47.41	+03 38 11.5	16.7	N	C47
C/2015 VL_{62}	2017 08 23.96642	21 22 46.73	+03 38 07.2	15.2	N	J01
C/2015 VL_{62}	2017 08 23.96644	21 22 46.63	+03 38 06.1	17.0	N	C47
C/2015 VL_{62}	2017 08 23.97128	21 22 45.64	+03 37 58.9	15.2	N	J01
C/2015 VL_{62}	2017 08 23.97453	21 22 44.86	+03 37 53.4	15.2	N	J01
C/2015 VL_{62}	2017 08 23.98075	21 22 43.49	+03 37 43.7	14.2	N	B75
C/2015 VL_{62}	2017 08 23.98225	21 22 43.03	+03 37 42.1	15.9	N	B75
C/2015 VL_{62}	2017 08 23.98373	21 22 42.71	+03 37 38.7	15.3	N	B75
C/2015 VL_{62}	2017 08 23.98446	21 22 42.52	+03 37 31.6	14.0	N	B75
C/2015 VL_{62}	2017 08 23.98519	21 22 42.34	+03 37 32.1	13.9	N	B75
C/2015 VL_{62}	2017 08 24.61389	21 20 19.94	+03 21 24.2	14.5	T	Q11
C/2015 VL_{62}	2017 08 24.62523	21 20 17.37	+03 21 06.9			Q11
C/2015 VL_{62}	2017 08 24.63093	21 20 16.05	+03 20 58.4			Q11
C/2015 VL_{62}	2017 08 24.88973	21 19 17.55	+03 14 15.9	16.1	N	B34
C/2015 VL_{62}	2017 08 24.89169	21 19 17.07	+03 14 12.7	16.1	N	B34
C/2015 VL_{62}	2017 08 24.89412	21 19 16.51	+03 14 10.1	16.1	N	B34
C/2015 VL_{62}	2017 08 24.97172	21 18 59.73	+03 12 14.6	15.3	T	Y00
C/2015 VL_{62}	2017 08 24.97272	21 18 59.44	+03 12 12.3	15.1	T	Y00
C/2015 VL_{62}	2017 08 24.97372	21 18 59.15	+03 12 11.1	15.2	T	Y00
C/2015 VL_{62}	2017 08 25.81981	21 15 48.39	+02 50 11.5	15.8	N	K14
C/2015 VL_{62}	2017 08 25.87162	21 15 36.75	+02 48 49.7	15.6	N	K14
C/2015 VL_{62}	2017 08 25.87576	21 15 35.91	+02 48 44.4	14.2	N	K14
C/2015 VL_{62}	2017 08 25.93222	21 15 23.07	+02 47 16.0	15.0	N	Z50
C/2015 VL_{62}	2017 08 25.93285	21 15 22.95	+02 47 14.9	15.0	N	Z50
C/2015 VL_{62}	2017 08 25.93416	21 15 22.65	+02 47 13.0	15.0	N	Z50
C/2015 VL_{62}	2017 08 25.96417	21 15 15.86	+02 46 25.6	15.2	N	K 970
C/2015 VL_{62}	2017 08 25.97181	21 15 14.13	+02 46 13.7	15.2	N	K 970
C/2015 VL_{62}	2017 08 26.06230	21 14 53.84	+02 43 54.6	14.7	N	2 G40
C/2015 VL_{62}	2017 08 26.06324	21 14 53.60	+02 43 53.0	14.8	N	2 G40
C/2015 VL_{62}	2017 08 26.06409	21 14 53.47	+02 43 51.8	14.6	N	2 G40
C/2015 VL_{62}	2017 08 26.52639	21 13 10.22	+02 31 50.9	14.5	T	D95
C/2015 VL_{62}	2017 08 26.52869	21 13 09.70	+02 31 47.1			D95
C/2015 VL_{62}	2017 08 26.52984	21 13 09.48	+02 31 45.3			D95
C/2015 VL_{62}	2017 08 26.54907	21 13 05.17	+02 31 15.7			K 367
C/2015 VL_{62}	2017 08 26.55029	21 13 04.90	+02 31 13.8			K 367
C/2015 VL_{62}	2017 08 26.55191	21 13 04.54	+02 31 11.3	14.0	T	K 367
C/2015 VL_{62}	2017 08 26.88525	21 11 50.14	+02 22 29.6	15.1	N	C36
C/2015 VL_{62}	2017 08 26.88701	21 11 49.68	+02 22 27.8	15.2	N	C36
C/2015 VL_{62}	2017 08 26.88788	21 11 49.51	+02 22 26.4	15.2	N	C36
C/2015 VL_{62}	2017 08 27.90179	21 08 05.22	+01 56 06.7	15.6	N	C23
C/2015 VL_{62}	2017 08 27.90478	21 08 04.57	+01 56 01.5	14.8	N	C23
C/2015 VL_{62}	2017 08 27.90778	21 08 03.90	+01 55 56.7	14.9	N	C23
C/2015 VL_{62}	2017 08 28.89616	21 04 27.30	+01 30 18.4	15.1	N	212
C/2015 VL_{62}	2017 08 28.89745	21 04 26.90	+01 30 15.5			K C43
C/2015 VL_{62}	2017 08 28.89759	21 04 26.98	+01 30 16.1	15.1	N	212
C/2015 VL_{62}	2017 08 28.89903	21 04 26.64	+01 30 13.9	15.1	N	212
C/2015 VL_{62}	2017 08 28.90046	21 04 26.33	+01 30 11.4	15.1	N	212
C/2015 VL_{62}	2017 08 28.90086	21 04 26.19	+01 30 10.1			K C43
C/2015 VL_{62}	2017 08 28.90475	21 04 25.29	+01 30 04.1			K C43
C/2015 VL_{62}	2017 08 28.90937	21 04 24.28	+01 29 56.9			K C43
C/2015 VL_{62}	2017 08 28.91435	21 04 23.19	+01 29 49.2			K C43
C/2015 VL_{62}	2017 08 28.93348	21 04 19.06	+01 29 20.7	15.3	N	J22
C/2015 VL_{62}	2017 08 28.93438	21 04 18.91	+01 29 19.5	15.3	N	J22
C/2015 VL_{62}	2017 08 28.93615	21 04 18.49	+01 29 17.0	15.3	N	J22

C/2015 VL_{62}	2017 08 29.99710	21 00 28.48	+01 01 46.4	15.5	N	I81
C/2015 VL_{62}	2017 08 29.99994	21 00 27.92	+01 01 41.7	14.7	N	I81
C/2015 VL_{62}	2017 08 30.01023	21 00 25.66	+01 01 25.7	15.3	N	I81
C/2015 VL_{62}	2017 08 30.09181	21 00 08.42	+00 59 19.7	15.7	N	750
C/2015 VL_{62}	2017 08 30.10543	21 00 04.96	+00 58 57.0	14.3	N	750
C/2015 VL_{62}	2017 08 30.77481	20 57 41.91	+00 41 42.6	16.2	N	B34
C/2015 VL_{62}	2017 08 30.83600	20 57 28.72	+00 40 08.1	16.4	N	B34
C/2015 VL_{62}	2017 08 30.90124	20 57 14.75	+00 38 27.3	16.3	N	B34
C/2015 VL_{62}	2017 08 30.93159	20 57 08.46	+00 37 40.1	15.2	N	Z55
C/2015 VL_{62}	2017 08 30.93238	20 57 08.23	+00 37 39.1	15.3	N	Z55
C/2015 VL_{62}	2017 08 30.93293	20 57 08.09	+00 37 38.0	15.3	N	Z55
C/2015 VL_{62}	2017 08 30.93387	20 57 07.92	+00 37 37.0	15.3	N	Z55
C/2015 VL_{62}	2017 08 30.93439	20 57 07.81	+00 37 35.7	15.3	N	Z55
C/2015 VL_{62}	2017 08 31.65208	20 54 35.60	+00 19 09.5	14.5	T	372
C/2015 VL_{62}	2017 08 31.65972	20 54 33.95	+00 18 57.7			372
C/2015 VL_{62}	2017 08 31.84054	20 53 56.19	+00 14 18.1	15.6	N	C10
C/2015 VL_{62}	2017 08 31.88367	20 53 47.07	+00 13 11.8	15.6	N	C10
C/2015 VL_{62}	2017 08 31.88844	20 53 46.07	+00 13 04.8	15.6	N	C10
C/2015 VL_{62}	2017 08 31.89537	20 53 44.44	+00 12 53.9	15.0	N	C36
C/2015 VL_{62}	2017 08 31.89625	20 53 44.23	+00 12 52.5	15.1	N	C36
C/2015 VL_{62}	2017 08 31.89888	20 53 43.71	+00 12 48.8	15.1	N	C36
C/2015 VL_{62}	2017 08 31.89976	20 53 43.52	+00 12 47.1	15.0	N	C36
C/2015 VL_{62}	2017 08 31.90064	20 53 43.39	+00 12 46.0	15.0	N	C36
C/2015 VL_{62}	2017 08 31.92535	20 53 38.31	+00 12 08.6	15.1	N	Z50
C/2015 VL_{62}	2017 08 31.92602	20 53 38.16	+00 12 07.3	15.1	N	Z50
C/2015 VL_{62}	2017 08 31.92670	20 53 38.00	+00 12 06.5	15.1	N	Z50
C/2015 VL_{62}	2017 09 01.84973	20 50 25.46	−00 11 28.2	15.2	N	K14
C/2015 VL_{62}	2017 09 01.85749	20 50 23.86	−00 11 39.9	15.0	N	K14
C/2015 VL_{62}	2017 09 01.86483	20 50 22.29	−00 11 50.9	15.2	N	K14
C/2015 VL_{62}	2017 09 01.87830	20 50 19.52	−00 12 11.1	15.3	N	K14
C/2015 VL_{62}	2017 09 01.87870	20 50 19.37	−00 12 12.0	15.3	N	C27
C/2015 VL_{62}	2017 09 01.88625	20 50 17.84	−00 12 23.9	14.8	N	K14
C/2015 VL_{62}	2017 09 01.88763	20 50 17.51	−00 12 25.7	15.3	N	C27
C/2015 VL_{62}	2017 09 01.90331	20 50 14.23	−00 12 49.6	15.4	N	C27
C/2015 VL_{62}	2017 09 01.93071	20 50 08.56	−00 13 32.0	15.3	N	J38
C/2015 VL_{62}	2017 09 01.93201	20 50 08.32	−00 13 34.1	15.4	N	J38
C/2015 VL_{62}	2017 09 01.93331	20 50 08.02	−00 13 35.4	15.3	N	J38
C/2015 VL_{62}	2017 09 02.54008	20 48 02.96	−00 28 59.0	14.0	T	349
C/2015 VL_{62}	2017 09 02.54530	20 48 01.90	−00 29 07.2			349
C/2015 VL_{62}	2017 09 04.83547	20 40 20.82	−01 26 30.4	15.6	N	C35
C/2015 VL_{62}	2017 09 04.83689	20 40 20.57	−01 26 31.9	15.5	N	C35
C/2015 VL_{62}	2017 09 04.83829	20 40 20.29	−01 26 34.7	15.6	N	C35
C/2015 VL_{62}	2017 09 05.81322	20 37 09.46	−01 50 34.9	15.6	N	C86
C/2015 VL_{62}	2017 09 05.81656	20 37 08.73	−01 50 41.3	15.4	N	C86
C/2015 VL_{62}	2017 09 05.81821	20 37 08.45	−01 50 43.6	15.4	N	C86
C/2015 VL_{62}	2017 09 06.83324	20 33 53.42	−02 15 25.6	15.0	N	K K19
C/2015 VL_{62}	2017 09 06.84113	20 33 51.88	−02 15 37.4	15.0	N	K K19
C/2015 VL_{62}	2017 09 06.84903	20 33 50.35	−02 15 48.3	15.0	N	K K19
C/2015 VL_{62}	2017 09 06.87413	20 33 45.54	−02 16 24.3	15.6	N	9 G40
C/2015 VL_{62}	2017 09 06.88391	20 33 43.70	−02 16 38.3	15.6	N	9 G40
C/2015 VL_{62}	2017 09 06.88881	20 33 42.76	−02 16 45.4	15.6	N	9 G40
C/2015 VL_{62}	2017 09 08.42343	20 28 55.48	−02 53 29.3			K D81
C/2015 VL_{62}	2017 09 08.42387	20 28 55.38	−02 53 29.7			K D81
C/2015 VL_{62}	2017 09 08.42429	20 28 55.28	−02 53 30.5			K D81
C/2015 VL_{62}	2017 09 08.42471	20 28 55.09	−02 53 31.1	14.6	T	K D81
C/2015 VL_{62}	2017 09 09.87459	20 24 31.66	−03 27 28.4	15.6	N	J01
C/2015 VL_{62}	2017 09 09.88909	20 24 29.01	−03 27 48.5	15.6	N	J01
C/2015 VL_{62}	2017 09 09.89814	20 24 27.38	−03 28 01.4	15.7	N	J01
C/2015 VL_{62}	2017 09 09.97958	20 24 12.81	−03 29 54.8	15.5	N	K K02
C/2015 VL_{62}	2017 09 09.98341	20 24 12.08	−03 30 00.3	15.8	N	K K02
C/2015 VL_{62}	2017 09 10.80983	20 21 46.15	−03 48 58.4	15.7	N	C86
C/2015 VL_{62}	2017 09 10.81150	20 21 45.92	−03 49 01.0	15.6	N	C86
C/2015 VL_{62}	2017 09 10.81207	20 21 45.73	−03 49 02.1			K C43
C/2015 VL_{62}	2017 09 10.81753	20 21 44.79	−03 49 09.5			K C43
C/2015 VL_{62}	2017 09 10.82306	20 21 43.84	−03 49 17.3			K C43
C/2015 VL_{62}	2017 09 10.82350	20 21 43.81	−03 49 17.1	16.1	N	K14
C/2015 VL_{62}	2017 09 10.82852	20 21 42.99	−03 49 24.3	14.9	N	K14
C/2015 VL_{62}	2017 09 10.83275	20 21 42.19	−03 49 29.7	16.2	N	K14
C/2015 VL_{62}	2017 09 10.83698	20 21 41.46	−03 49 36.0	16.1	N	K14
C/2015 VL_{62}	2017 09 10.84416	20 21 40.24	−03 49 45.8	14.7	N	K14
C/2015 VL_{62}	2017 09 10.92334	20 21 26.38	−03 51 34.0	15.6	N	J22
C/2015 VL_{62}	2017 09 10.92528	20 21 25.96	−03 51 36.5	15.6	N	J22
C/2015 VL_{62}	2017 09 10.92720	20 21 25.63	−03 51 38.4	15.6	N	J22
C/2015 VL_{62}	2017 09 11.84573	20 18 46.78	−04 12 25.1	15.1	N	K77
C/2015 VL_{62}	2017 09 11.85259	20 18 45.58	−04 12 33.5	15.1	N	K77
C/2015 VL_{62}	2017 09 11.85538	20 18 45.16	−04 12 36.9	15.6	N	I57
C/2015 VL_{62}	2017 09 11.86840	20 18 42.81	−04 12 54.3	15.7	N	I57
C/2015 VL_{62}	2017 09 11.86950	20 18 42.69	−04 12 55.5	15.6	N	I57
C/2015 VL_{62}	2017 09 11.87807	20 18 41.15	−04 13 08.2	15.1	N	585
C/2015 VL_{62}	2017 09 11.87879	20 18 41.00	−04 13 10.3	15.1	N	585
C/2015 VL_{62}	2017 09 11.88028	20 18 40.81	−04 13 11.7	15.1	N	585
C/2015 VL_{62}	2017 09 11.88105	20 18 40.68	−04 13 12.5	15.4	N	585
C/2015 VL_{62}	2017 09 11.88177	20 18 40.52	−04 13 13.6	15.2	N	585
C/2015 VL_{62}	2017 09 11.88248	20 18 40.43	−04 13 14.2	15.2	N	585
C/2015 VL_{62}	2017 09 11.88320	20 18 40.23	−04 13 15.4	15.5	N	585
C/2015 VL_{62}	2017 09 11.88392	20 18 40.12	−04 13 16.3	15.4	N	585
C/2015 VL_{62}	2017 09 11.88470	20 18 40.07	−04 13 17.2	15.2	N	585
C/2015 VL_{62}	2017 09 11.88541	20 18 39.84	−04 13 19.1	15.4	N	585
C/2015 VL_{62}	2017 09 11.88613	20 18 39.71	−04 13 18.6	15.4	N	585
C/2015 VL_{62}	2017 09 13.42934	20 14 20.96	−04 47 25.9	15.3	T	D95
C/2015 VL_{62}	2017 09 13.43122	20 14 20.58	−04 47 28.6			K D81
C/2015 VL_{62}	2017 09 13.43225	20 14 20.47	−04 47 29.6			D95
C/2015 VL_{62}	2017 09 13.43293	20 14 20.32	−04 47 30.7			K D81
C/2015 VL_{62}	2017 09 13.43371	20 14 20.24	−04 47 31.6			D95
C/2015 VL_{62}	2017 09 13.43484	20 14 19.96	−04 47 32.6	15.3	T	K D81
C/2015 VL_{62}	2017 09 13.771325	20 13 24.735	−04 54 52.12	16.4	N	5 089
C/2015 VL_{62}	2017 09 13.772878	20 13 24.487	−04 54 54.65	17.0	N	5 089
C/2015 VL_{62}	2017 09 13.774429	20 13 24.229	−04 54 56.40	16.5	N	5 089
C/2015 VL_{62}	2017 09 13.802575	20 13 19.619	−04 55 32.79	16.1	N	5 089
C/2015 VL_{62}	2017 09 13.804128	20 13 19.364	−04 55 34.95	16.4	N	5 089
C/2015 VL_{62}	2017 09 13.805679	20 13 19.037	−04 55 36.88	16.1	N	5 089
C/2015 VL_{62}	2017 09 13.81802	20 13 17.05	−04 55 53.8	15.8	N	C36
C/2015 VL_{62}	2017 09 13.81890	20 13 16.83	−04 55 54.6	15.8	N	C36
C/2015 VL_{62}	2017 09 13.82446	20 13 15.90	−04 56 02.0	15.8	N	C36
C/2015 VL_{62}	2017 09 13.87429	20 13 07.89	−04 57 05.9	15.9	N	J01
C/2015 VL_{62}	2017 09 13.88029	20 13 06.92	−04 57 13.6	15.9	N	J01

C/2015 VL_{62}	2017 09 13.89230	20 13 04.92	−04 57 28.9	15.8	N	J01
C/2015 VL_{62}	2017 09 14.32560	20 11 54.90	−05 06 47.6	15.4	T	T05
C/2015 VL_{62}	2017 09 14.33247	20 11 53.77	−05 06 56.4	15.5	T	T05
C/2015 VL_{62}	2017 09 14.346752	20 11 51.219	−05 07 14.48	16.7	T	29 568
C/2015 VL_{62}	2017 09 14.34685	20 11 51.30	−05 07 14.7	16.3	T	T05
C/2015 VL_{62}	2017 09 14.348686	20 11 50.910	−05 07 16.95	16.1	T	29 568
C/2015 VL_{62}	2017 09 14.767000	20 10 44.105	−05 16 14.41	16.2	N	5 089
C/2015 VL_{62}	2017 09 14.768550	20 10 43.863	−05 16 16.54	16.2	N	5 089
C/2015 VL_{62}	2017 09 14.770100	20 10 43.624	−05 16 18.84	16.4	N	5 089
C/2015 VL_{62}	2017 09 14.771652	20 10 43.366	−05 16 20.75	16.4	N	5 089
C/2015 VL_{62}	2017 09 14.773203	20 10 43.091	−05 16 23.48	16.1	N	5 089
C/2015 VL_{62}	2017 09 14.774754	20 10 42.922	−05 16 25.51	16.0	N	5 089
C/2015 VL_{62}	2017 09 14.797995	20 10 39.124	−05 16 53.79	16.3	N	5 089
C/2015 VL_{62}	2017 09 14.799545	20 10 38.884	−05 16 55.60	16.3	N	5 089
C/2015 VL_{62}	2017 09 14.801096	20 10 38.629	−05 16 57.60	16.3	N	5 089
C/2015 VL_{62}	2017 09 14.91587	20 10 20.50	−05 19 25.3	15.6	N	J38
C/2015 VL_{62}	2017 09 14.91675	20 10 20.29	−05 19 24.8	15.7	N	J38
C/2015 VL_{62}	2017 09 14.91763	20 10 20.19	−05 19 25.9	15.7	N	J38
C/2015 VL_{62}	2017 09 14.96240	20 10 12.93	−05 20 23.1	16.9	N	K K02
C/2015 VL_{62}	2017 09 14.96794	20 10 12.01	−05 20 30.5	17.0	N	K K02
C/2015 VL_{62}	2017 09 14.97309	20 10 11.16	−05 20 36.9	16.9	N	K K02
C/2015 VL_{62}	2017 09 15.90392	20 07 45.52	−05 40 08.7	15.5	N	C23
C/2015 VL_{62}	2017 09 15.90916	20 07 44.69	−05 40 15.3	15.7	N	C23
C/2015 VL_{62}	2017 09 15.91366	20 07 43.97	−05 40 21.2	15.4	N	C23
C/2015 VL_{62}	2017 09 16.07542	20 07 19.05	−05 43 42.4	16.2	N	I15
C/2015 VL_{62}	2017 09 16.09485	20 07 16.03	−05 44 06.5	15.9	N	I15
C/2015 VL_{62}	2017 09 16.09916	20 07 15.35	−05 44 11.7	16.6	N	I15
C/2015 VL_{62}	2017 09 16.63984	20 05 52.87	−05 55 18.6	16.6	N	C97
C/2015 VL_{62}	2017 09 16.64133	20 05 52.66	−05 55 20.7	16.7	N	C97
C/2015 VL_{62}	2017 09 16.64282	20 05 52.40	−05 55 22.5	16.7	N	C97
C/2015 VL_{62}	2017 09 16.64430	20 05 52.22	−05 55 23.9	16.6	N	C97
C/2015 VL_{62}	2017 09 16.64620	20 05 51.84	−05 55 26.5	16.7	N	C97
C/2015 VL_{62}	2017 09 16.64769	20 05 51.59	−05 55 28.0	16.6	N	C97
C/2015 VL_{62}	2017 09 16.97947	20 05 01.30	−06 02 15.9	15.8	N	C35
C/2015 VL_{62}	2017 09 16.98124	20 05 01.05	−06 02 17.9	15.8	N	C35
C/2015 VL_{62}	2017 09 16.98301	20 05 00.81	−06 02 20.4	15.7	N	C35
C/2015 VL_{62}	2017 09 17.759031	20 03 05.406	−06 18 00.53	16.3	N	5 089
C/2015 VL_{62}	2017 09 17.760575	20 03 05.177	−06 18 02.09	16.3	N	5 089
C/2015 VL_{62}	2017 09 17.762126	20 03 04.946	−06 18 04.13	16.4	N	5 089
C/2015 VL_{62}	2017 09 17.763678	20 03 04.728	−06 18 05.89	16.4	N	5 089
C/2015 VL_{62}	2017 09 17.765228	20 03 04.509	−06 18 07.81	16.4	N	5 089
C/2015 VL_{62}	2017 09 17.774593	20 03 03.091	−06 18 19.17	16.5	N	5 089
C/2015 VL_{62}	2017 09 17.784532	20 03 01.649	−06 18 30.47	16.3	N	5 089
C/2015 VL_{62}	2017 09 17.786950	20 03 01.262	−06 18 33.44	16.3	N	5 089
C/2015 VL_{62}	2017 09 17.788504	20 03 01.078	−06 18 35.77	16.2	N	5 089
C/2015 VL_{62}	2017 09 17.89826	20 02 45.01	−06 20 46.2	15.7	N	212
C/2015 VL_{62}	2017 09 17.90116	20 02 44.57	−06 20 50.7	15.9	N	212
C/2015 VL_{62}	2017 09 17.90404	20 02 44.15	−06 20 53.6	15.9	N	212
C/2015 VL_{62}	2017 09 18.03212	20 02 25.14	−06 23 26.6	15.9	N	J22
C/2015 VL_{62}	2017 09 18.03468	20 02 24.75	−06 23 29.7	15.9	N	J22
C/2015 VL_{62}	2017 09 18.03722	20 02 24.39	−06 23 32.4	15.9	N	J22
C/2015 VL_{62}	2017 09 18.60160	20 01 02.63	−06 34 43.0	15.1	T	Q11
C/2015 VL_{62}	2017 09 18.60730	20 01 01.82	−06 34 49.7			Q11
C/2015 VL_{62}	2017 09 18.61301	20 01 01.01	−06 34 56.5			Q11
C/2015 VL_{62}	2017 09 18.65254	20 00 55.39	−06 35 43.9	16.2	T	C48
C/2015 VL_{62}	2017 09 18.65878	20 00 54.50	−06 35 51.3	16.2	T	C48
C/2015 VL_{62}	2017 09 18.66507	20 00 53.58	−06 35 59.1	15.7	T	C48
C/2015 VL_{62}	2017 09 18.67132	20 00 52.69	−06 36 06.1	15.9	T	C48
C/2015 VL_{62}	2017 09 18.67757	20 00 51.77	−06 36 13.5	16.0	T	C48
C/2015 VL_{62}	2017 09 18.731323	20 00 44.171	−06 37 16.97	16.7	N	5 089
C/2015 VL_{62}	2017 09 18.732867	20 00 43.991	−06 37 18.91	16.2	N	5 089
C/2015 VL_{62}	2017 09 18.734418	20 00 43.727	−06 37 20.24	16.4	N	5 089
C/2015 VL_{62}	2017 09 18.750057	20 00 41.452	−06 37 38.76	16.3	N	5 089
C/2015 VL_{62}	2017 09 18.751606	20 00 41.260	−06 37 40.36	16.3	N	5 089
C/2015 VL_{62}	2017 09 18.753157	20 00 41.026	−06 37 42.22	16.5	N	5 089
C/2015 VL_{62}	2017 09 18.780138	20 00 37.170	−06 38 14.45	16.1	N	5 089
C/2015 VL_{62}	2017 09 18.781687	20 00 36.993	−06 38 15.90	16.2	N	5 089
C/2015 VL_{62}	2017 09 18.783238	20 00 36.676	−06 38 17.62	16.3	N	5 089
C/2015 VL_{62}	2017 09 19.81680	19 58 11.00	−06 58 19.5			K C43
C/2015 VL_{62}	2017 09 19.81898	19 58 10.66	−06 58 21.6			K C43
C/2015 VL_{62}	2017 09 19.82125	19 58 10.36	−06 58 24.5			K C43
C/2015 VL_{62}	2017 09 19.82357	19 58 10.01	−06 58 27.1			K C43
C/2015 VL_{62}	2017 09 19.85866	19 58 05.02	−06 59 07.1	15.9	N	J53
C/2015 VL_{62}	2017 09 19.86280	19 58 04.49	−06 59 11.8	15.8	N	J53
C/2015 VL_{62}	2017 09 19.86350	19 58 04.41	−06 59 12.5	15.8	N	J53
C/2015 VL_{62}	2017 09 19.91078	19 57 57.90	−07 00 06.1	16.0	N	212
C/2015 VL_{62}	2017 09 19.91366	19 57 57.51	−07 00 09.2	15.9	N	212
C/2015 VL_{62}	2017 09 19.91653	19 57 57.04	−07 00 12.3	16.1	N	212
C/2015 VL_{62}	2017 09 20.83999	19 55 50.74	−07 17 41.9	15.9	N	C86
C/2015 VL_{62}	2017 09 20.84325	19 55 50.32	−07 17 45.9	16.0	N	C86
C/2015 VL_{62}	2017 09 20.84492	19 55 50.09	−07 17 46.5	16.1	N	C86
C/2015 VL_{62}	2017 09 21.16621	19 55 06.79	−07 23 47.5	15.4	N	KW33
C/2015 VL_{62}	2017 09 21.19020	19 55 03.75	−07 24 13.5	15.3	N	KW33
C/2015 VL_{62}	2017 09 21.80777	19 53 42.17	−07 35 38.5	16.7	N	K 215
C/2015 VL_{62}	2017 09 21.80906	19 53 41.99	−07 35 40.0	16.8	N	K 215
C/2015 VL_{62}	2017 09 21.81034	19 53 41.81	−07 35 41.0	17.0	N	K 215
C/2015 VL_{62}	2017 09 21.88037	19 53 32.52	−07 36 57.8	15.5	N	I81
C/2015 VL_{62}	2017 09 21.88605	19 53 31.82	−07 37 04.4	15.5	N	I81
C/2015 VL_{62}	2017 09 21.89315	19 53 30.91	−07 37 12.3	15.2	N	I81
C/2015 VL_{62}	2017 09 22.80309	19 51 33.45	−07 53 40.6	17.1	N	K 160
C/2015 VL_{62}	2017 09 22.80573	19 51 33.10	−07 53 43.4	17.2	N	K 160
C/2015 VL_{62}	2017 09 22.80837	19 51 32.76	−07 53 46.1	17.3	N	K 160
C/2015 VL_{62}	2017 09 22.97964	19 51 10.87	−07 56 48.8	15.8	N	9 G40
C/2015 VL_{62}	2017 09 22.98293	19 51 10.42	−07 56 52.6	15.9	N	9 G40
C/2015 VL_{62}	2017 09 22.98638	19 51 09.98	−07 56 56.1	15.9	N	9 G40
C/2015 VL_{62}	2017 09 22.99361	19 51 09.11	−07 57 04.0	16.0	N	9 G40
C/2015 VL_{62}	2017 09 22.99689	19 51 08.65	−07 57 07.7	15.9	N	9 G40
C/2015 VL_{62}	2017 09 24.83920	19 47 22.29	−08 29 19.7	16.2	N	K C23
C/2015 VL_{62}	2017 09 24.84069	19 47 22.11	−08 29 21.3	15.1	N	K C23
C/2015 VL_{62}	2017 09 24.84219	19 47 21.95	−08 29 23.1	15.9	N	K C23
C/2015 VL_{62}	2017 09 25.05135	19 46 57.39	−08 32 56.0	16.5	N	750
C/2015 VL_{62}	2017 09 25.06147	19 46 55.88	−08 33 02.2	16.5	N	750
C/2015 VL_{62}	2017 09 25.79525	19 45 29.83	−08 45 28.6	16.8	N	K K87
C/2015 VL_{62}	2017 09 25.80374	19 45 28.84	−08 45 37.5	16.7	N	K K87
C/2015 VL_{62}	2017 09 25.81225	19 45 27.83	−08 45 45.5	16.7	N	K K87
C/2015 VL_{62}	2017 09 26.28455	19 44 33.51	−08 53 35.0	16.8	T	T05

C/2015 VL_{62}	2017 09 26.29763	19 44 32.00	−08 53 48.0	16.8	T	T05
C/2015 VL_{62}	2017 09 26.30458	19 44 31.31	−08 53 55.0	15.8	T	T05
C/2015 VL_{62}	2017 09 28.28536	19 40 52.61	−09 25 51.0	16.5	T	T08
C/2015 VL_{62}	2017 09 28.29250	19 40 51.79	−09 25 57.6	16.4	T	T08
C/2015 VL_{62}	2017 09 28.29963	19 40 51.20	−09 26 04.4	15.9	T	T08
C/2015 VL_{62}	2017 09 28.30677	19 40 50.44	−09 26 11.0	15.8	T	T08
C/2015 VL_{62}	2017 09 30.28898	19 37 25.69	−09 56 38.4	16.0	T	T05
C/2015 VL_{62}	2017 09 30.29600	19 37 24.86	−09 56 44.5	17.0	T	T05
C/2015 VL_{62}	2017 09 30.30313	19 37 24.12	−09 56 50.7	16.8	T	T05
C/2015 VL_{62}	2017 09 30.31039	19 37 23.47	−09 56 57.6	15.9	T	T05

C/2016 A1 (PANSTARRS)

C/2016 A1	2017 03 20.43398	08 28 29.35	+02 21 08.7			D95
C/2016 A1	2017 03 20.43829	08 28 29.20	+02 21 12.1			D95
C/2016 A1	2017 03 20.44259	08 28 29.03	+02 21 15.1	15.5	T	D95

C/2016 A8 (LINEAR)

C/2016 A8	2016 08 23.97615	22 03 02.11	+40 01 09.7	14.1	N	196
C/2016 A8	2016 08 23.98753	22 02 56.65	+40 00 36.6	14.1	N	196
C/2016 A8	2016 08 23.99727	22 02 51.97	+40 00 08.3	14.1	N	196

C/2016 B1 (NEOWISE)

C/2016 B1	2017 07 03.91718	17 57 22.69	+27 09 41.9	18.2	N	K 160
C/2016 B1	2017 07 03.91953	17 57 22.61	+27 09 42.0	18.7	N	K 160
C/2016 B1	2017 07 03.92188	17 57 22.56	+27 09 42.7	18.3	N	K 160
C/2016 B1	2017 07 05.92155	17 56 11.57	+27 16 25.6	18.8	N	K 160
C/2016 B1	2017 07 05.92361	17 56 11.47	+27 16 26.2	18.7	N	K 160
C/2016 B1	2017 07 05.92567	17 56 11.45	+27 16 26.7	18.5	N	K 160
C/2016 B1	2017 07 06.43034	17 55 53.74	+27 17 58.7	17.9	T	T08
C/2016 B1	2017 07 06.44141	17 55 53.36	+27 18 01.3	18.0	T	T08
C/2016 B1	2017 07 06.44446	17 55 53.23	+27 18 02.8	18.0	T	T08
C/2016 B1	2017 07 06.46000	17 55 52.72	+27 18 04.1	17.8	T	T08
C/2016 B1	2017 07 06.89531	17 55 37.76	+27 19 19.3	18.4	N	K 160
C/2016 B1	2017 07 06.89775	17 55 37.68	+27 19 19.8	18.3	N	K 160
C/2016 B1	2017 07 06.90020	17 55 37.61	+27 19 20.7	18.6	N	K 160
C/2016 B1	2017 07 08.95277	17 54 27.97	+27 24 38.2	18.0	N	B96
C/2016 B1	2017 07 08.95766	17 54 27.86	+27 24 38.9	17.7	N	B96
C/2016 B1	2017 07 08.96257	17 54 27.63	+27 24 39.8	18.3	N	B96
C/2016 B1	2017 07 10.90676	17 53 24.06	+27 28 42.9	17.7	N	K 585
C/2016 B1	2017 07 10.90748	17 53 24.02	+27 28 42.4	17.8	N	K 585
C/2016 B1	2017 07 10.90820	17 53 24.00	+27 28 42.8	17.8	N	K 585
C/2016 B1	2017 07 10.90892	17 53 23.99	+27 28 42.7	17.9	N	K 585
C/2016 B1	2017 07 10.90964	17 53 23.94	+27 28 43.0	18.0	N	K 585
C/2016 B1	2017 07 10.91036	17 53 23.90	+27 28 42.8	18.1	N	K 585
C/2016 B1	2017 07 10.91107	17 53 23.89	+27 28 43.1	18.0	N	K 585
C/2016 B1	2017 07 10.91179	17 53 23.86	+27 28 42.9	18.0	N	K 585
C/2016 B1	2017 07 10.91250	17 53 23.83	+27 28 42.8	17.9	N	K 585
C/2016 B1	2017 07 10.91321	17 53 23.81	+27 28 42.8	18.1	N	K 585
C/2016 B1	2017 07 10.91393	17 53 23.79	+27 28 43.0	17.9	N	K 585
C/2016 B1	2017 07 12.99900	17 52 18.34	+27 32 00.8	18.5	N	K C23
C/2016 B1	2017 07 13.00333	17 52 18.11	+27 32 01.7	19.6	N	K C23
C/2016 B1	2017 07 13.86172	17 51 52.14	+27 33 06.9	17.2	N	K14
C/2016 B1	2017 07 13.89363	17 51 51.27	+27 33 07.9	17.8	N	K14
C/2016 B1	2017 07 14.88541	17 51 21.84	+27 34 08.3	18.1	N	K 160
C/2016 B1	2017 07 14.88765	17 51 21.74	+27 34 08.7	17.7	N	K 160
C/2016 B1	2017 07 14.88988	17 51 21.65	+27 34 09.0	17.9	N	K 160
C/2016 B1	2017 07 16.04831	17 50 48.14	+27 35 02.7	17.8	N	J22
C/2016 B1	2017 07 16.05155	17 50 48.07	+27 35 02.7	17.8	N	J22
C/2016 B1	2017 07 17.89767	17 49 56.83	+27 35 49.5	19.0	N	K 160
C/2016 B1	2017 07 17.89987	17 49 56.76	+27 35 49.5	19.2	N	K 160
C/2016 B1	2017 07 17.90206	17 49 56.67	+27 35 49.3	19.2	N	K 160
C/2016 B1	2017 07 18.91166	17 49 29.83	+27 35 56.7	18.2	N	K 160
C/2016 B1	2017 07 18.91390	17 49 29.73	+27 35 56.8	18.7	N	K 160
C/2016 B1	2017 07 18.91611	17 49 29.70	+27 35 56.7	18.4	N	K 160
C/2016 B1	2017 07 19.04342	17 49 26.36	+27 35 57.0	16.9	N	K I81
C/2016 B1	2017 07 19.04524	17 49 26.34	+27 35 57.2	17.3	N	K I81
C/2016 B1	2017 07 19.04706	17 49 26.29	+27 35 57.0	17.1	N	K I81
C/2016 B1	2017 07 19.92995	17 49 03.49	+27 35 50.0	17.3	N	K 585
C/2016 B1	2017 07 19.93208	17 49 03.47	+27 35 49.6	17.3	N	K 585
C/2016 B1	2017 07 19.93281	17 49 03.46	+27 35 49.0	17.4	N	K 585
C/2016 B1	2017 07 19.93354	17 49 03.42	+27 35 49.3	17.4	N	K 585
C/2016 B1	2017 07 19.93427	17 49 03.41	+27 35 49.1	17.4	N	K 585
C/2016 B1	2017 07 19.93500	17 49 03.37	+27 35 49.5	17.3	N	K 585
C/2016 B1	2017 07 19.93575	17 49 03.34	+27 35 48.6	17.4	N	K 585
C/2016 B1	2017 07 19.93650	17 49 03.33	+27 35 49.6	17.2	N	K 585
C/2016 B1	2017 07 19.93723	17 49 03.31	+27 35 49.5	17.2	N	K 585
C/2016 B1	2017 07 19.93796	17 49 03.30	+27 35 49.5	17.1	N	K 585
C/2016 B1	2017 07 19.93869	17 49 03.28	+27 35 49.4	17.0	N	K 585
C/2016 B1	2017 07 19.93954	17 49 03.29	+27 35 49.8	16.9	N	K 585
C/2016 B1	2017 07 20.21664	17 48 56.32	+27 35 46.9	18.0	T	H45
C/2016 B1	2017 07 20.21873	17 48 56.26	+27 35 46.7	18.0	T	H45
C/2016 B1	2017 07 20.21986	17 48 56.25	+27 35 46.6	18.0	T	H45
C/2016 B1	2017 07 20.22134	17 48 56.19	+27 35 46.5	18.0	T	H45
C/2016 B1	2017 07 20.22323	17 48 56.11	+27 35 46.2	17.9	T	H45
C/2016 B1	2017 07 20.98899	17 48 37.13	+27 35 28.4	19.0	N	K K02
C/2016 B1	2017 07 20.99670	17 48 36.94	+27 35 29.0	18.6	N	K K02
C/2016 B1	2017 07 22.05197	17 48 11.65	+27 34 57.1	18.1	N	212
C/2016 B1	2017 07 22.06346	17 48 11.30	+27 34 54.8	17.6	N	212
C/2016 B1	2017 07 22.07642	17 48 11.03	+27 34 50.9	17.7	N	212
C/2016 B1	2017 07 22.39050	17 48 03.80	+27 34 43.0	17.6	T	T08
C/2016 B1	2017 07 22.40011	17 48 03.53	+27 34 41.6	17.8	T	T08
C/2016 B1	2017 07 22.41693	17 48 03.12	+27 34 41.5	17.9	T	T08
C/2016 B1	2017 07 22.41741	17 48 03.13	+27 34 41.4	18.0	T	T08
C/2016 B1	2017 07 25.95932	17 46 46.59	+27 30 54.4	18.2	N	K K02
C/2016 B1	2017 07 25.96705	17 46 46.45	+27 30 54.0	18.3	N	K K02
C/2016 B1	2017 07 26.97610	17 46 26.90	+27 29 22.7	17.1	N	K I81
C/2016 B1	2017 07 26.97967	17 46 26.78	+27 29 22.7	17.3	N	K I81
C/2016 B1	2017 07 26.98324	17 46 26.65	+27 29 22.6	17.1	N	K I81
C/2016 B1	2017 07 27.90247	17 46 09.68	+27 27 51.7	18.0	N	I72
C/2016 B1	2017 07 27.94091	17 46 08.97	+27 27 48.1	17.7	N	I72
C/2016 B1	2017 07 27.97710	17 46 08.20	+27 27 44.1	18.3	N	K C23
C/2016 B1	2017 07 27.98071	17 46 08.02	+27 27 42.8	18.0	N	K C23
C/2016 B1	2017 07 27.98432	17 46 08.10	+27 27 42.4	18.1	N	K C23
C/2016 B1	2017 07 27.98568	17 46 08.05	+27 27 43.7	17.8	N	I72
C/2016 B1	2017 07 29.92467	17 45 34.85	+27 23 59.5	19.6	N	K C47
C/2016 B1	2017 07 29.92836	17 45 34.77	+27 23 58.1	19.8	N	K C47
C/2016 B1	2017 07 29.93574	17 45 34.69	+27 23 57.9	19.7	N	K C47

C/2016 B1	2017 07 29.93943	17 45 34.65	+27 23 56.8	19.8	N	K	C47
C/2016 B1	2017 07 29.94452	17 45 34.56	+27 23 56.4	19.6	N	K	C47
C/2016 B1	2017 07 30.91531	17 45 19.35	+27 21 50.5	17.5	N	K	970
C/2016 B1	2017 07 30.92063	17 45 19.25	+27 21 50.1	17.4	N	K	970
C/2016 B1	2017 08 03.90593	17 44 26.63	+27 11 44.2	17.7	N		I72
C/2016 B1	2017 08 03.93584	17 44 26.45	+27 11 39.6	18.2	N		I72
C/2016 B1	2017 08 03.96660	17 44 26.00	+27 11 33.0	17.9	N		I72
C/2016 B1	2017 08 05.90873	17 44 06.07	+27 05 45.8	18.1	N	K	C23
C/2016 B1	2017 08 05.91451	17 44 06.20	+27 05 45.0	17.8	N	K	C23
C/2016 B1	2017 08 05.98234	17 44 05.53	+27 05 33.0	17.8	N	K	I81
C/2016 B1	2017 08 05.98586	17 44 05.52	+27 05 30.7	17.9	N	K	I81
C/2016 B1	2017 08 05.99125	17 44 05.43	+27 05 29.6	18.0	N	K	I81
C/2016 B1	2017 08 08.92826	17 43 43.04	+26 55 50.6	18.0	N		I72
C/2016 B1	2017 08 08.96373	17 43 42.80	+26 55 43.1	18.0	N		I72
C/2016 B1	2017 08 08.99172	17 43 42.55	+26 55 38.7	18.1	N		I72
C/2016 B1	2017 08 09.52802	17 43 39.48	+26 53 44.8			K	D81
C/2016 B1	2017 08 09.53183	17 43 39.50	+26 53 43.7			K	D81
C/2016 B1	2017 08 09.53527	17 43 39.45	+26 53 42.9	15.5	T	K	D81
C/2016 B1	2017 08 09.99519	17 43 36.90	+26 52 05.4	18.3	N	K	I81
C/2016 B1	2017 08 10.00392	17 43 36.91	+26 52 02.7	16.7	N	K	I81
C/2016 B1	2017 08 10.01170	17 43 36.98	+26 52 01.2	18.1	N	K	I81
C/2016 B1	2017 08 15.93787	17 43 25.00	+26 28 51.4	18.1	N	K	C23
C/2016 B1	2017 08 15.94075	17 43 25.03	+26 28 51.8	17.7	N	K	C23
C/2016 B1	2017 08 15.94364	17 43 25.02	+26 28 50.0	17.8	N	K	C23
C/2016 B1	2017 08 15.94653	17 43 25.02	+26 28 49.9	17.9	N	K	C23
C/2016 B1	2017 08 20.97442	17 43 42.99	+26 06 43.9	18.3	N	9	G40
C/2016 B1	2017 08 20.98583	17 43 43.06	+26 06 40.9	18.3	N	9	G40
C/2016 B1	2017 08 20.99670	17 43 43.12	+26 06 37.4	18.6	N	9	G40
C/2016 B1	2017 08 23.88647	17 44 05.12	+25 53 05.9	19.4	N	K	C47
C/2016 B1	2017 08 23.89385	17 44 05.19	+25 53 03.9	19.1	N	K	C47
C/2016 B1	2017 08 23.90123	17 44 05.23	+25 53 01.5	19.5	N	K	C47
C/2016 B1	2017 08 23.91599	17 44 05.34	+25 52 58.2	19.1	N	K	C47
C/2016 B1	2017 08 25.93291	17 44 25.72	+25 43 14.1	17.3	N	K	970
C/2016 B1	2017 08 25.93988	17 44 25.83	+25 43 11.7	17.4	N	K	970
C/2016 B1	2017 08 28.25735	17 44 54.27	+25 31 50.6	18	T		C51
Geocentric position (km)	− 607.8359	− 6185.2639	+ 2893.7006				
C/2016 B1	2017 08 28.51916	17 44 57.76	+25 30 33.0				C51
Geocentric position (km)	− 575.1910	− 6206.6415	+ 2855.1276				
C/2016 B1	2017 08 28.58461	17 44 58.77	+25 30 15.2				C51
Geocentric position (km)	− 566.9281	− 6212.1420	+ 2844.8175				
C/2016 B1	2017 08 28.58474	17 44 58.62	+25 30 12.2				C51
Geocentric position (km)	− 575.4828	− 6176.1531	+ 2920.1329				
C/2016 B1	2017 08 28.71564	17 45 00.41	+25 29 34.5				C51
Geocentric position (km)	− 559.0308	− 6187.3044	+ 2899.6952				
C/2016 B1	2017 08 28.78109	17 45 01.46	+25 29 13.6				C51
Geocentric position (km)	− 550.7842	− 6192.8462	+ 2889.4582				
C/2016 B1	2017 08 29.23938	17 45 07.81	+25 26 55.8				C51
Geocentric position (km)	− 501.6883	− 6195.2240	+ 2893.1404				
C/2016 B1	2017 08 29.50119	17 45 11.65	+25 25 37.9				C51
Geocentric position (km)	− 468.4201	− 6216.7899	+ 2852.2541				
C/2016 B1	2017 08 29.63209	17 45 13.51	+25 24 59.4				C51
Geocentric position (km)	− 451.7108	− 6227.3961	+ 2831.7849				
C/2016 B1	2017 08 29.97790	17 45 18.58	+25 23 11.8	17.9	N	K	I81
C/2016 B1	2017 08 29.98217	17 45 18.64	+25 23 10.2	18.5	N	K	I81
C/2016 B1	2017 08 29.98644	17 45 18.66	+25 23 09.0	18.4	N	K	I81
C/2016 B1	2017 08 31.53070	17 45 43.11	+25 15 21.8	18	T		C51
Geocentric position (km)	− 246.5223	− 6234.4927	+ 2841.2953				
C/2016 B1	2017 08 31.85809	17 45 48.56	+25 13 43.1				C51
Geocentric position (km)	− 214.4795	− 6223.9629	+ 2866.6600				
C/2016 B1	2017 08 31.92354	17 45 49.63	+25 13 22.2				C51
Geocentric position (km)	− 205.9644	− 6228.8455	+ 2856.6898				
C/2016 B1	2017 09 01.05444	17 45 51.88	+25 12 41.8				C51
Geocentric position (km)	− 188.8879	− 6238.5582	+ 2836.6481				
C/2016 B1	2017 09 01.18534	17 45 54.13	+25 12 02.0				C51
Geocentric position (km)	− 171.7765	− 6248.1282	+ 2816.6497				
C/2016 B1	2017 09 01.18547	17 45 54.07	+25 12 01.8				C51
Geocentric position (km)	− 182.5842	− 6213.0960	+ 2892.1294				
C/2016 B1	2017 09 01.25092	17 45 55.22	+25 11 43.1				C51
Geocentric position (km)	− 174.0506	− 6217.9951	+ 2882.1433				
C/2016 B1	2017 09 01.51273	17 45 59.81	+25 10 22.7				C51
Geocentric position (km)	− 139.8218	− 6237.2340	+ 2842.2475				
C/2016 B1	2017 09 01.64363	17 46 02.08	+25 09 43.3				C51
Geocentric position (km)	− 122.6467	− 6246.6689	+ 2822.2971				
C/2016 B1	2017 09 01.77466	17 46 04.37	+25 09 01.6				C51
Geocentric position (km)	− 116.6059	− 6221.2297	+ 2877.9280				
C/2016 B1	2017 09 01.90557	17 46 06.63	+25 08 22.2				C51
Geocentric position (km)	− 99.4335	− 6230.6997	+ 2858.0700				
C/2016 B1	2017 09 11.25961	17 49 32.40	+24 19 52.2	18.9	T		T05
C/2016 B1	2017 09 11.27081	17 49 32.71	+24 19 48.1	19.0	T		T05
C/2016 B1	2017 09 11.27791	17 49 32.81	+24 19 46.0	18.9	T		T05
C/2016 B1	2017 09 11.28518	17 49 33.06	+24 19 43.0	18.0	T		T05
C/2016 B1	2017 09 15.85552	17 51 41.34	+23 56 00.0	17.8	N	K	C23
C/2016 B1	2017 09 15.86274	17 51 41.42	+23 55 55.5	18.0	N	K	C23
C/2016 B1	2017 09 15.86725	17 51 41.64	+23 55 54.3	18.6	N		I72
C/2016 B1	2017 09 15.89836	17 51 42.51	+23 55 44.2	18.4	N		I72
C/2016 B1	2017 09 15.92162	17 51 43.17	+23 55 36.1	18.4	N		I72
C/2016 B1	2017 09 17.26127	17 52 24.17	+23 48 43.6	18.6	T		T08
C/2016 B1	2017 09 17.26855	17 52 24.46	+23 48 40.0	19.0	T		T08
C/2016 B1	2017 09 17.27571	17 52 24.58	+23 48 37.9	18.6	T		T08
C/2016 B1	2017 09 17.28280	17 52 24.77	+23 48 35.6	18.3	T		T08
C/2016 B1	2017 09 18.45271	17 53 01.64	+23 42 35.6			K	D81
C/2016 B1	2017 09 18.45654	17 53 01.83	+23 42 34.4			K	D81
C/2016 B1	2017 09 18.46038	17 53 01.89	+23 42 32.6			K	D81
C/2016 B1	2017 09 18.46423	17 53 02.05	+23 42 32.5	18.3	T	K	D81
C/2016 B1	2017 09 18.90912	17 53 16.37	+23 40 14.0	18.4	N	K	212
C/2016 B1	2017 09 18.92852	17 53 17.02	+23 40 07.9	18.8	N	K	212
C/2016 B1	2017 09 18.95086	17 53 17.68	+23 40 02.4	19.2	N	K	212
C/2016 B1	2017 09 19.87075	17 53 47.95	+23 35 18.1	18.4	N	K	I81
C/2016 B1	2017 09 19.87430	17 53 48.05	+23 35 17.1	18.2	N	K	I81
C/2016 B1	2017 09 19.87786	17 53 48.18	+23 35 16.5	17.4	N	K	I81
C/2016 B1	2017 09 21.86813	17 54 55.73	+23 25 10.8	18.0	N	K	I81
C/2016 B1	2017 09 21.87167	17 54 55.85	+23 25 09.5	18.3	N	K	I81
C/2016 B1	2017 09 21.87522	17 54 55.96	+23 25 08.0	18.1	N	K	I81
C/2016 B1	2017 09 23.84422	17 56 05.72	+23 15 14.0	19.4	N		B96
C/2016 B1	2017 09 23.84913	17 56 05.89	+23 15 15.1	18.4	N		B96
C/2016 B1	2017 09 23.85240	17 56 05.93	+23 15 16.8	19.5	N		B96

C/2016 B1	2017 09 24.13594	17 56 16.34	+23 13 49.5	18.1	T		G96
C/2016 B1	2017 09 24.14330	17 56 16.57	+23 13 46.8	18.1	T		G96
C/2016 B1	2017 09 24.15068	17 56 16.85	+23 13 44.9	18.0	T		G96
C/2016 B1	2017 09 24.84376	17 56 42.25	+23 10 18.7	20.5	N	K	B96
C/2016 B1	2017 09 24.84867	17 56 42.36	+23 10 16.3	19.1	N	K	B96
C/2016 B1	2017 09 25.23048	17 56 56.65	+23 08 24.1	18.1	T		T08
C/2016 B1	2017 09 25.23890	17 56 56.91	+23 08 21.1	19.0	T		T08
C/2016 B1	2017 09 25.24865	17 56 57.30	+23 08 17.4	18.8	T		T08
C/2016 B1	2017 09 25.25099	17 56 57.33	+23 08 18.6	18.8	T		T08
C/2016 B1	2017 09 25.81204	17 57 18.29	+23 05 32.1	18.3	N	K	C23
C/2016 B1	2017 09 25.81781	17 57 18.43	+23 05 27.7	17.4	N	K	C23

C/2016 M1 (PANSTARRS)

C/2016 M1	2016 11 08.176550	17 21 40.492	+62 52 04.76	20.0	T		245
Geocentric position (AU)		−0.03040246	−1.37338897	−0.59783856			
C/2016 M1	2017 06 09.93354	18 29 19.28	+54 08 26.1	15.5	N		585
C/2016 M1	2017 07 01.89225	17 58 05.50	+52 51 22.0	16.9	N	K	A71
C/2016 M1	2017 07 01.90112	17 58 04.71	+52 51 18.7	16.7	N	K	A71
C/2016 M1	2017 07 01.91000	17 58 03.91	+52 51 15.1	16.7	N	K	A71
C/2016 M1	2017 07 01.92775	17 58 02.41	+52 51 08.1	16.6	N	K	A71
C/2016 M1	2017 07 08.35159	17 49 02.046	+52 01 39.58	16.9	T		F51
C/2016 M1	2017 07 08.36591	17 49 00.849	+52 01 32.10	16.9	T		F51
C/2016 M1	2017 07 08.38014	17 48 59.654	+52 01 24.80	17.1	T		F51
C/2016 M1	2017 07 08.39436	17 48 58.474	+52 01 17.34	17.1	T		F51
C/2016 M1	2017 07 08.51194	17 48 48.93	+52 00 15.1	15.3	T		349
C/2016 M1	2017 07 08.52281	17 48 48.05	+52 00 09.3				349
C/2016 M1	2017 07 08.53367	17 48 47.11	+52 00 03.4				349
C/2016 M1	2017 07 08.89661	17 48 17.38	+51 56 53.7	15.9	N		B96
C/2016 M1	2017 07 08.90152	17 48 17.13	+51 56 49.1	16.1	N		B96
C/2016 M1	2017 07 08.90648	17 48 16.61	+51 56 47.1	16.0	N		B96
C/2016 M1	2017 07 08.94118	17 48 13.67	+51 56 29.4	15.6	N		Z55
C/2016 M1	2017 07 08.94196	17 48 13.80	+51 56 30.0	15.9	N		Z55
C/2016 M1	2017 07 08.94236	17 48 13.71	+51 56 30.0	15.9	N		Z55
C/2016 M1	2017 07 10.89827	17 45 35.14	+51 38 39.3	16.4	N	9	G40
C/2016 M1	2017 07 10.90814	17 45 34.33	+51 38 33.7	16.4	N	9	G40
C/2016 M1	2017 07 10.91309	17 45 33.92	+51 38 30.9	16.4	N	9	G40
C/2016 M1	2017 07 10.93524	17 45 31.97	+51 38 17.7	15.7	N		585
C/2016 M1	2017 07 10.93595	17 45 31.87	+51 38 17.5	15.8	N		585
C/2016 M1	2017 07 10.93666	17 45 31.88	+51 38 17.1	15.7	N		585
C/2016 M1	2017 07 10.93737	17 45 31.80	+51 38 16.4	15.9	N		585
C/2016 M1	2017 07 10.93808	17 45 31.75	+51 38 15.6	15.8	N		585
C/2016 M1	2017 07 10.93879	17 45 31.73	+51 38 15.7	16.0	N		585
C/2016 M1	2017 07 10.93950	17 45 31.65	+51 38 15.4	15.7	N		585
C/2016 M1	2017 07 10.94021	17 45 31.52	+51 38 15.0	15.9	N		585
C/2016 M1	2017 07 10.94092	17 45 31.49	+51 38 14.3	15.9	N		585
C/2016 M1	2017 07 10.94163	17 45 31.49	+51 38 14.2	15.8	N		585
C/2016 M1	2017 07 10.94234	17 45 31.40	+51 38 13.9	15.7	N		585
C/2016 M1	2017 07 10.94305	17 45 31.37	+51 38 13.2	15.8	N		585
C/2016 M1	2017 07 10.94376	17 45 31.21	+51 38 12.8	15.8	N		585
C/2016 M1	2017 07 10.94446	17 45 31.23	+51 38 12.4	15.7	N		585
C/2016 M1	2017 07 10.94544	17 45 31.18	+51 38 12.0	15.7	N		585
C/2016 M1	2017 07 10.94686	17 45 31.07	+51 38 11.3	15.8	N		585
C/2016 M1	2017 07 10.94756	17 45 30.99	+51 38 10.6	15.8	N		585
C/2016 M1	2017 07 10.94827	17 45 30.92	+51 38 10.1	15.8	N		585
C/2016 M1	2017 07 10.94898	17 45 30.88	+51 38 10.0	15.7	N		585
C/2016 M1	2017 07 11.43922	17 44 51.62	+51 33 31.7	16.3	T		T08
C/2016 M1	2017 07 11.45270	17 44 50.54	+51 33 24.2	16.3	T		T08
C/2016 M1	2017 07 11.46007	17 44 49.93	+51 33 19.7	16.3	T		T08
C/2016 M1	2017 07 11.47156	17 44 49.00	+51 33 13.1	16.3	T		T08
C/2016 M1	2017 07 11.86542	17 44 17.91	+51 29 24.8	15.6	N		C86
C/2016 M1	2017 07 11.87155	17 44 17.32	+51 29 21.8	15.5	N		C86
C/2016 M1	2017 07 11.87457	17 44 17.06	+51 29 20.6	15.5	N		C86
C/2016 M1	2017 07 12.85569	17 42 59.58	+51 19 42.0	15.7	N		C86
C/2016 M1	2017 07 12.86179	17 42 59.01	+51 19 38.0	15.8	N		C86
C/2016 M1	2017 07 12.86481	17 42 58.74	+51 19 37.0	15.9	N		C86
C/2016 M1	2017 07 12.92601	17 42 53.96	+51 18 59.6	15.9	N		B96
C/2016 M1	2017 07 12.92765	17 42 53.82	+51 18 58.6	16.7	N		B96
C/2016 M1	2017 07 12.92928	17 42 53.73	+51 18 58.1	16.8	N		B96
C/2016 M1	2017 07 12.93091	17 42 53.58	+51 18 56.9	16.7	N		B96
C/2016 M1	2017 07 12.93255	17 42 53.44	+51 18 55.9	16.2	N		B96
C/2016 M1	2017 07 12.93418	17 42 53.31	+51 18 55.3	16.7	N		B96
C/2016 M1	2017 07 12.99745	17 42 48.27	+51 18 16.7	16.2	N		K02
C/2016 M1	2017 07 13.00365	17 42 47.80	+51 18 12.9	16.3	N		K02
C/2016 M1	2017 07 13.00570	17 42 47.60	+51 18 11.8	15.9	N		C23
C/2016 M1	2017 07 13.00981	17 42 47.25	+51 18 09.4	16.6	N		K02
C/2016 M1	2017 07 13.01019	17 42 47.23	+51 18 09.3	16.1	N		C23
C/2016 M1	2017 07 13.01393	17 42 46.98	+51 18 06.8	16.0	N		C23
C/2016 M1	2017 07 13.88939	17 41 38.70	+51 09 15.1	15.8	N		Z55
C/2016 M1	2017 07 13.89049	17 41 38.61	+51 09 14.1	15.8	N		Z55
C/2016 M1	2017 07 13.89137	17 41 38.63	+51 09 14.0	15.8	N		Z55
C/2016 M1	2017 07 13.89214	17 41 38.54	+51 09 13.1	15.9	N		Z55
C/2016 M1	2017 07 13.89304	17 41 38.42	+51 09 12.6	15.8	N		Z55
C/2016 M1	2017 07 13.90611	17 41 37.45	+51 09 04.4	15.8	N		J01
C/2016 M1	2017 07 13.91339	17 41 36.85	+51 09 00.1	15.7	N		J01
C/2016 M1	2017 07 13.92488	17 41 35.96	+51 08 52.9	15.6	N		J01
C/2016 M1	2017 07 14.876174	17 40 22.435	+50 58 59.42	16.5	T	5	089
C/2016 M1	2017 07 14.877547	17 40 22.333	+50 58 58.76	16.5	T	5	089
C/2016 M1	2017 07 14.878925	17 40 22.225	+50 58 57.76	16.6	T	5	089
C/2016 M1	2017 07 14.880302	17 40 22.097	+50 58 56.93	16.5	T	5	089
C/2016 M1	2017 07 14.881680	17 40 22.020	+50 58 55.77	16.5	T	5	089
C/2016 M1	2017 07 14.883056	17 40 21.899	+50 58 55.29	16.6	T	5	089
C/2016 M1	2017 07 15.04102	17 40 09.80	+50 57 15.4	16.1	N		J22
C/2016 M1	2017 07 15.04557	17 40 09.41	+50 57 13.1	16.1	N		J22
C/2016 M1	2017 07 15.05014	17 40 09.07	+50 57 10.1	16.1	N		J22
C/2016 M1	2017 07 16.86097	17 37 52.16	+50 37 32.1	15.2	T	K	104
C/2016 M1	2017 07 16.86616	17 37 51.85	+50 37 29.8	16.3	N		C86
C/2016 M1	2017 07 16.86912	17 37 51.55	+50 37 26.8	15.3	T	K	104
C/2016 M1	2017 07 16.86928	17 37 51.59	+50 37 28.3	16.3	N		C86
C/2016 M1	2017 07 16.87536	17 37 51.05	+50 37 24.2	16.3	N		C86
C/2016 M1	2017 07 17.796552	17 36 42.693	+50 27 03.44	16.5	T	5	089
C/2016 M1	2017 07 17.798331	17 36 42.543	+50 27 02.17	16.5	T	5	089
C/2016 M1	2017 07 17.800114	17 36 42.422	+50 27 01.12	16.5	T	5	089
C/2016 M1	2017 07 17.820741	17 36 40.892	+50 26 46.78	16.6	T	5	089
C/2016 M1	2017 07 17.822534	17 36 40.733	+50 26 45.70	16.5	T	5	089
C/2016 M1	2017 07 17.824328	17 36 40.603	+50 26 44.48	16.5	T	5	089
C/2016 M1	2017 07 17.851991	17 36 38.532	+50 26 25.57	16.5	T	5	089

C/2016 M1	2017 07 17.853770	17 36 38.407	+50 26 24.36	16.6	T	5	089
C/2016 M1	2017 07 17.855552	17 36 38.282	+50 26 23.19	16.5	T	5	089
C/2016 M1	2017 07 17.89435	17 36 35.41	+50 25 57.2	16.8	N		C47
C/2016 M1	2017 07 17.89587	17 36 35.31	+50 25 55.3	16.0	N		L04
C/2016 M1	2017 07 17.89804	17 36 35.18	+50 25 54.5	17.3	N		C47
C/2016 M1	2017 07 17.90105	17 36 34.95	+50 25 51.6	16.0	N		L04
C/2016 M1	2017 07 17.90173	17 36 34.83	+50 25 51.6	17.3	N		C47
C/2016 M1	2017 07 17.90542	17 36 34.67	+50 25 49.1	17.3	N		C47
C/2016 M1	2017 07 17.90698	17 36 34.46	+50 25 47.9	16.1	N		L04
C/2016 M1	2017 07 17.90911	17 36 34.32	+50 25 46.6	17.2	N		C47
C/2016 M1	2017 07 17.91280	17 36 34.09	+50 25 44.4	17.2	N		C47
C/2016 M1	2017 07 17.91361	17 36 33.98	+50 25 42.8	16.0	N		L04
C/2016 M1	2017 07 17.91612	17 36 33.80	+50 25 41.6	16.5	N		C47
C/2016 M1	2017 07 18.831728	17 35 26.891	+50 15 10.52	16.6	T	5	089
C/2016 M1	2017 07 18.833511	17 35 26.769	+50 15 09.19	16.5	T	5	089
C/2016 M1	2017 07 18.835292	17 35 26.626	+50 15 08.08	16.6	T	5	089
C/2016 M1	2017 07 18.842930	17 35 26.076	+50 15 02.63	16.6	T	5	089
C/2016 M1	2017 07 18.857616	17 35 24.975	+50 14 52.46	16.5	T	5	089
C/2016 M1	2017 07 18.89169	17 35 22.54	+50 14 28.7	16.4	N		511
C/2016 M1	2017 07 18.89243	17 35 22.49	+50 14 28.2	16.4	N		511
C/2016 M1	2017 07 18.89316	17 35 22.42	+50 14 27.7	16.4	N		511
C/2016 M1	2017 07 18.89389	17 35 22.38	+50 14 27.6	16.5	N		511
C/2016 M1	2017 07 18.89462	17 35 22.32	+50 14 27.3	16.5	N		511
C/2016 M1	2017 07 19.02389	17 35 12.92	+50 12 55.6	15.5	N		I81
C/2016 M1	2017 07 19.02806	17 35 12.59	+50 12 52.8	15.5	N		I81
C/2016 M1	2017 07 19.03168	17 35 12.33	+50 12 50.3	15.6	N		I81
C/2016 M1	2017 07 19.39417	17 34 46.18	+50 08 36.4	16.3	T		T08
C/2016 M1	2017 07 19.40047	17 34 45.70	+50 08 32.0	16.3	T		T08
C/2016 M1	2017 07 19.41133	17 34 44.91	+50 08 24.3	16.2	T		T08
C/2016 M1	2017 07 19.42251	17 34 44.12	+50 08 16.3	16.1	T		T08
C/2016 M1	2017 07 19.819996	17 34 15.698	+50 03 34.09	16.6	T	5	089
C/2016 M1	2017 07 19.821794	17 34 15.562	+50 03 32.77	16.5	T	5	089
C/2016 M1	2017 07 19.823586	17 34 15.398	+50 03 31.11	16.6	T	5	089
C/2016 M1	2017 07 19.825378	17 34 15.301	+50 03 30.04	16.6	T	5	089
C/2016 M1	2017 07 19.827170	17 34 15.182	+50 03 28.75	16.5	T	5	089
C/2016 M1	2017 07 19.828963	17 34 15.028	+50 03 27.73	16.6	T	5	089
C/2016 M1	2017 07 19.845395	17 34 13.862	+50 03 15.64	16.5	T	5	089
C/2016 M1	2017 07 19.847173	17 34 13.724	+50 03 14.39	16.4	T	5	089
C/2016 M1	2017 07 19.85182	17 34 13.43	+50 03 11.5	16.4	N		511
C/2016 M1	2017 07 19.85255	17 34 13.40	+50 03 10.7	16.4	N		511
C/2016 M1	2017 07 19.85329	17 34 13.35	+50 03 10.5	16.4	N		511
C/2016 M1	2017 07 19.853534	17 34 13.271	+50 03 09.93	16.5	T	5	089
C/2016 M1	2017 07 19.89994	17 34 09.89	+50 02 36.7	15.7	N		K83
C/2016 M1	2017 07 19.90176	17 34 09.72	+50 02 36.0	15.8	N		K83
C/2016 M1	2017 07 19.90676	17 34 09.47	+50 02 31.4	15.6	N		K83
C/2016 M1	2017 07 19.92680	17 34 08.04	+50 02 17.4	16.3	N		K14
C/2016 M1	2017 07 19.94371	17 34 06.79	+50 02 05.2	16.2	N		K14
C/2016 M1	2017 07 20.22448	17 33 46.77	+49 58 44.4	16.0	N		H45
C/2016 M1	2017 07 20.22641	17 33 46.63	+49 58 43.0	16.0	N		H45
C/2016 M1	2017 07 20.22782	17 33 46.54	+49 58 41.8	16.1	N		H45
C/2016 M1	2017 07 20.22889	17 33 46.47	+49 58 41.2	16.1	N		H45
C/2016 M1	2017 07 20.23067	17 33 46.32	+49 58 40.0	16.0	N		H45
C/2016 M1	2017 07 20.86181	17 33 01.83	+49 51 03.0	15.9	N		Z55
C/2016 M1	2017 07 20.86326	17 33 01.78	+49 51 02.3	15.9	N		Z55
C/2016 M1	2017 07 20.86425	17 33 01.68	+49 51 00.9	15.9	N		Z55
C/2016 M1	2017 07 20.86620	17 33 01.59	+49 51 00.0	15.9	N		Z55
C/2016 M1	2017 07 20.86698	17 33 01.60	+49 50 58.5	15.8	N		Z55
C/2016 M1	2017 07 20.93378	17 32 56.73	+49 50 10.0	16.0	N		C23
C/2016 M1	2017 07 20.93902	17 32 56.43	+49 50 06.6	15.8	N		C23
C/2016 M1	2017 07 20.94351	17 32 56.12	+49 50 02.2	15.5	N		C23
C/2016 M1	2017 07 20.96535	17 32 54.54	+49 49 46.8	16.5	N		K02
C/2016 M1	2017 07 20.97153	17 32 54.14	+49 49 41.9	16.8	N		K02
C/2016 M1	2017 07 20.97770	17 32 53.65	+49 49 37.7	16.3	N		K02
C/2016 M1	2017 07 20.97910	17 32 53.56	+49 49 37.1	15.9	N		212
C/2016 M1	2017 07 20.98054	17 32 53.47	+49 49 36.1	15.9	N		212
C/2016 M1	2017 07 20.98198	17 32 53.35	+49 49 35.0	15.9	N		212
C/2016 M1	2017 07 20.98343	17 32 53.25	+49 49 34.0	15.9	N		212
C/2016 M1	2017 07 21.38135	17 32 25.44	+49 44 42.4	16.5	T		T05
C/2016 M1	2017 07 21.39377	17 32 24.55	+49 44 33.4	16.6	T		T05
C/2016 M1	2017 07 21.40358	17 32 23.87	+49 44 25.9	16.6	T		T05
C/2016 M1	2017 07 21.41304	17 32 23.18	+49 44 19.1	16.6	T		T05
C/2016 M1	2017 07 22.93636	17 30 38.54	+49 25 15.5	15.8	N		I72
C/2016 M1	2017 07 22.95516	17 30 37.36	+49 25 02.9	15.8	N		I72
C/2016 M1	2017 07 22.97943	17 30 35.80	+49 24 44.1	15.7	N		I72
C/2016 M1	2017 07 23.38008	17 30 08.64	+49 19 37.8	16.2	T		T08
C/2016 M1	2017 07 23.39242	17 30 07.79	+49 19 28.2	16.1	T		T08
C/2016 M1	2017 07 23.40212	17 30 07.14	+49 19 20.6	16.2	T		T08
C/2016 M1	2017 07 23.41150	17 30 06.50	+49 19 13.4	16.2	T		T08
C/2016 M1	2017 07 24.89829	17 28 28.06	+48 59 53.8	15.5	N	K	K73
C/2016 M1	2017 07 24.90385	17 28 27.72	+48 59 49.9	15.6	N	K	K73
C/2016 M1	2017 07 24.91090	17 28 27.24	+48 59 44.0	15.8	N		A77
C/2016 M1	2017 07 24.95915	17 28 24.10	+48 59 06.6	16.8	N		A77
C/2016 M1	2017 07 25.06812	17 28 16.94	+48 57 39.2	16.7	N		A77
C/2016 M1	2017 07 25.38279	17 27 56.59	+48 53 30.4	16.6	T		T05
C/2016 M1	2017 07 25.39530	17 27 55.76	+48 53 20.2	16.6	T		T05
C/2016 M1	2017 07 25.40457	17 27 55.16	+48 53 12.8	16.6	T		T05
C/2016 M1	2017 07 25.41364	17 27 54.56	+48 53 05.6	16.6	T		T05
C/2016 M1	2017 07 25.84359	17 27 27.02	+48 47 20.8	16.7	N	K	107
C/2016 M1	2017 07 25.85796	17 27 26.11	+48 47 09.8	16.7	N	K	107
C/2016 M1	2017 07 25.87376	17 27 25.05	+48 46 56.3	16.7	N	K	107
C/2016 M1	2017 07 25.88291	17 27 24.57	+48 46 48.9	15.7	N		970
C/2016 M1	2017 07 25.88577	17 27 24.36	+48 46 46.4	15.6	N		970
C/2016 M1	2017 07 25.97986	17 27 18.22	+48 45 30.4	16.1	N		K02
C/2016 M1	2017 07 25.98603	17 27 17.83	+48 45 25.7	16.4	N		K02
C/2016 M1	2017 07 25.99066	17 27 17.53	+48 45 21.8	16.0	N		K02
C/2016 M1	2017 07 26.91707	17 26 19.08	+48 32 49.6	15.7	N		I72
C/2016 M1	2017 07 26.91787	17 26 18.95	+48 32 48.9	15.8	N		I72
C/2016 M1	2017 07 26.91866	17 26 18.90	+48 32 48.4	15.8	N		I72
C/2016 M1	2017 07 26.96376	17 26 16.07	+48 32 10.7	15.4	N		I81
C/2016 M1	2017 07 26.96802	17 26 15.80	+48 32 07.0	15.4	N		I81
C/2016 M1	2017 07 26.97086	17 26 15.64	+48 32 04.9	15.4	N		I81
C/2016 M1	2017 07 27.91897	17 25 16.95	+48 19 01.4	16.1	N		B96
C/2016 M1	2017 07 27.91987	17 25 16.88	+48 19 00.4	16.1	N		C23
C/2016 M1	2017 07 27.92060	17 25 16.86	+48 18 59.9	16.1	N		B96
C/2016 M1	2017 07 27.92225	17 25 16.73	+48 18 58.6	16.0	N		B96
C/2016 M1	2017 07 27.92388	17 25 16.65	+48 18 57.4	16.0	N		B96

C/2016 M1	2017 07 27.92436	17 25 16.59	+48 18 57.1	16.0	N	C23
C/2016 M1	2017 07 27.92551	17 25 16.56	+48 18 56.0	16.1	N	B96
C/2016 M1	2017 07 27.92810	17 25 16.37	+48 18 53.6	15.8	N	C23
C/2016 M1	2017 07 27.97740	17 25 13.31	+48 18 12.2	16.2	N	K02
C/2016 M1	2017 07 27.98045	17 25 13.13	+48 18 10.6	15.7	N	Z55
C/2016 M1	2017 07 27.98185	17 25 13.03	+48 18 09.0	15.7	N	Z55
C/2016 M1	2017 07 27.98250	17 25 13.01	+48 18 08.9	15.7	N	Z55
C/2016 M1	2017 07 27.98331	17 25 12.96	+48 18 08.1	15.8	N	Z55
C/2016 M1	2017 07 27.98359	17 25 12.94	+48 18 07.2	16.3	N	K02
C/2016 M1	2017 07 27.98396	17 25 12.88	+48 18 07.4	15.8	N	Z55
C/2016 M1	2017 07 27.99140	17 25 12.46	+48 18 00.7	16.2	N	K02
C/2016 M1	2017 07 28.85517	17 24 20.25	+48 05 55.9	16.0	N	K14
C/2016 M1	2017 07 28.88830	17 24 18.21	+48 05 27.7	15.7	N	K14
C/2016 M1	2017 07 28.90196	17 24 17.38	+48 05 16.4	15.5	N	K14
C/2016 M1	2017 07 28.91461	17 24 16.61	+48 05 05.3	15.6	N	K14
C/2016 M1	2017 07 28.92523	17 24 15.97	+48 04 56.2	15.8	N	K14
C/2016 M1	2017 07 29.89772	17 23 18.37	+47 51 06.3	17.2	N	C47
C/2016 M1	2017 07 29.90141	17 23 18.14	+47 51 03.5	17.1	N	C47
C/2016 M1	2017 07 29.90510	17 23 17.92	+47 51 00.1	16.8	N	C47
C/2016 M1	2017 07 29.90879	17 23 17.72	+47 50 56.8	17.1	N	C47
C/2016 M1	2017 07 29.91248	17 23 17.50	+47 50 53.5	17.5	N	C47
C/2016 M1	2017 07 29.91617	17 23 17.28	+47 50 50.5	16.8	N	C47
C/2016 M1	2017 07 29.91986	17 23 17.06	+47 50 47.3	17.5	N	C47
C/2016 M1	2017 07 30.05425	17 23 09.10	+47 48 51.2	15.8	N	J22
C/2016 M1	2017 07 30.05818	17 23 08.88	+47 48 48.8	15.8	N	J22
C/2016 M1	2017 07 30.06209	17 23 08.62	+47 48 45.2	15.8	N	J22
C/2016 M1	2017 07 30.85737	17 22 22.93	+47 37 15.0	15.7	N	C95
C/2016 M1	2017 07 30.89397	17 22 20.71	+47 36 43.3	15.7	N	970
C/2016 M1	2017 07 30.89701	17 22 20.54	+47 36 40.4	15.6	N	970
C/2016 M1	2017 07 30.90421	17 22 20.18	+47 36 34.2	15.8	N	C95
C/2016 M1	2017 07 30.95108	17 22 17.46	+47 35 53.0	15.8	N	C95
C/2016 M1	2017 07 30.95703	17 22 17.08	+47 35 47.9	16.1	N	K02
C/2016 M1	2017 07 30.96319	17 22 16.74	+47 35 42.8	16.7	N	K02
C/2016 M1	2017 07 30.96937	17 22 16.40	+47 35 37.4	16.2	N	K02
C/2016 M1	2017 07 31.01364	17 22 13.87	+47 34 58.1	15.8	N	C95
C/2016 M1	2017 07 31.04442	17 22 12.10	+47 34 31.0	15.6	N	I81
C/2016 M1	2017 07 31.04725	17 22 11.90	+47 34 27.7	15.7	N	I81
C/2016 M1	2017 07 31.05008	17 22 11.79	+47 34 25.9	15.7	N	I81
C/2016 M1	2017 07 31.37373	17 21 53.44	+47 29 43.8	16.2	T	T08
C/2016 M1	2017 07 31.38197	17 21 52.97	+47 29 36.6	16.2	T	T08
C/2016 M1	2017 07 31.39185	17 21 52.40	+47 29 28.0	16.2	T	T08
C/2016 M1	2017 07 31.40207	17 21 51.83	+47 29 18.6	16.3	T	T08
C/2016 M1	2017 08 01.01840	17 21 17.25	+47 20 13.4	16.8	N	C47
C/2016 M1	2017 08 01.02062	17 21 17.18	+47 20 11.7	17.5	N	C47
C/2016 M1	2017 08 01.02320	17 21 17.02	+47 20 09.7	17.3	N	C47
C/2016 M1	2017 08 01.02578	17 21 16.87	+47 20 06.6	17.0	N	C47
C/2016 M1	2017 08 01.02837	17 21 16.74	+47 20 04.6	16.3	N	C47
C/2016 M1	2017 08 01.03095	17 21 16.59	+47 20 02.3	17.4	N	C47
C/2016 M1	2017 08 01.15159	17 21 09.96	+47 18 15.8	15.8	N	KW33
C/2016 M1	2017 08 01.16357	17 21 09.24	+47 18 04.6	15.3	N	KW33
C/2016 M1	2017 08 01.17560	17 21 08.61	+47 17 54.6	15.3	N	KW33
C/2016 M1	2017 08 02.10336	17 20 17.84	+47 04 04.3			I15
C/2016 M1	2017 08 02.10769	17 20 17.62	+47 04 00.6			I15
C/2016 M1	2017 08 02.11202	17 20 17.38	+47 03 57.0			I15
C/2016 M1	2017 08 02.36332	17 20 03.83	+47 00 11.0	16.5	T	T05
C/2016 M1	2017 08 02.37424	17 20 03.28	+47 00 01.2	16.6	T	T05
C/2016 M1	2017 08 02.38450	17 20 02.65	+46 59 51.8	16.4	T	T05
C/2016 M1	2017 08 02.39351	17 20 02.18	+46 59 43.5	16.4	T	T05
C/2016 M1	2017 08 02.90207	17 19 35.14	+46 52 02.1	15.8	N	Z55
C/2016 M1	2017 08 02.90348	17 19 35.07	+46 52 00.9	15.8	N	Z55
C/2016 M1	2017 08 02.90433	17 19 35.02	+46 52 00.2	15.8	N	Z55
C/2016 M1	2017 08 02.90569	17 19 34.97	+46 51 59.2	15.7	N	Z55
C/2016 M1	2017 08 02.91682	17 19 34.36	+46 51 48.7	16.7	N	J27
C/2016 M1	2017 08 02.91833	17 19 34.30	+46 51 47.4	16.6	N	J27
C/2016 M1	2017 08 02.92136	17 19 34.10	+46 51 44.8	16.5	N	J27
C/2016 M1	2017 08 03.88146	17 18 44.09	+46 37 05.5	15.8	N	C86
C/2016 M1	2017 08 03.89042	17 18 43.39	+46 36 56.0	15.9	N	C86
C/2016 M1	2017 08 03.90722	17 18 42.68	+46 36 41.9	15.8	N	I72
C/2016 M1	2017 08 03.90877	17 18 42.60	+46 36 40.3	15.8	N	I72
C/2016 M1	2017 08 03.93902	17 18 41.00	+46 36 12.5	15.8	N	I72
C/2016 M1	2017 08 04.36398	17 18 19.28	+46 29 39.9	16.1	T	T08
C/2016 M1	2017 08 04.37434	17 18 18.72	+46 29 30.2	15.9	T	T08
C/2016 M1	2017 08 04.38405	17 18 18.25	+46 29 21.2	15.9	T	T08
C/2016 M1	2017 08 04.39354	17 18 17.76	+46 29 12.3	15.9	T	T08
C/2016 M1	2017 08 04.88165	17 17 53.16	+46 21 37.9	16.2	N	595
C/2016 M1	2017 08 04.90566	17 17 51.96	+46 21 15.5	16.4	N	595
C/2016 M1	2017 08 05.89475	17 17 03.17	+46 05 47.5	15.8	N	B96
C/2016 M1	2017 08 05.89607	17 17 03.10	+46 05 46.2	15.7	N	C23
C/2016 M1	2017 08 05.89638	17 17 03.08	+46 05 46.1	15.8	N	B96
C/2016 M1	2017 08 05.89801	17 17 03.00	+46 05 44.6	15.9	N	B96
C/2016 M1	2017 08 05.89965	17 17 02.94	+46 05 42.7	15.8	N	B96
C/2016 M1	2017 08 05.90057	17 17 02.90	+46 05 42.0	15.6	N	C23
C/2016 M1	2017 08 05.90128	17 17 02.87	+46 05 41.5	15.8	N	B96
C/2016 M1	2017 08 05.90292	17 17 02.80	+46 05 39.8	15.9	N	B96
C/2016 M1	2017 08 05.90431	17 17 02.69	+46 05 38.0	15.8	N	C23
C/2016 M1	2017 08 05.94019	17 17 00.95	+46 05 04.1	15.5	N	I81
C/2016 M1	2017 08 05.94209	17 17 00.85	+46 05 02.5	15.5	N	I81
C/2016 M1	2017 08 05.94360	17 17 00.93	+46 04 58.5	13.6	N	I81
C/2016 M1	2017 08 06.89956	17 16 15.02	+45 49 53.6	16.5	N	K 160
C/2016 M1	2017 08 06.90263	17 16 14.88	+45 49 50.7	16.5	N	K 160
C/2016 M1	2017 08 06.90506	17 16 14.73	+45 49 48.3	15.7	N	K14
C/2016 M1	2017 08 06.90553	17 16 14.76	+45 49 48.2	16.5	N	K 160
C/2016 M1	2017 08 06.91488	17 16 14.26	+45 49 38.8	15.7	N	K14
C/2016 M1	2017 08 06.91932	17 16 14.06	+45 49 34.7	15.7	N	K14
C/2016 M1	2017 08 06.92373	17 16 13.87	+45 49 30.3	15.6	N	K14
C/2016 M1	2017 08 06.94294	17 16 12.94	+45 49 12.4	15.7	N	I72
C/2016 M1	2017 08 06.94475	17 16 12.99	+45 49 11.3	15.6	N	I72
C/2016 M1	2017 08 07.00355	17 16 10.07	+45 48 13.9	15.7	N	I72
C/2016 M1	2017 08 07.34379	17 15 54.20	+45 42 49.2	16.6	T	T05
C/2016 M1	2017 08 07.35356	17 15 53.74	+45 42 39.7	16.6	T	T05
C/2016 M1	2017 08 07.36091	17 15 53.40	+45 42 32.2	16.9	T	T05
C/2016 M1	2017 08 07.36190	17 15 53.33	+45 42 31.6	16.6	T	T05
C/2016 M1	2017 08 07.89641	17 15 28.68	+45 33 56.4	15.7	N	K14
C/2016 M1	2017 08 07.90433	17 15 28.34	+45 33 48.8	15.8	N	K14
C/2016 M1	2017 08 09.01494	17 14 38.29	+45 15 50.6	15.9	N	Z55
C/2016 M1	2017 08 09.01626	17 14 38.35	+45 15 48.8	16.0	N	Z55

C/2016 M1	2017 08 09.01757	17 14 38.32	+45 15 48.2	15.8	N		Z55
C/2016 M1	2017 08 09.01885	17 14 38.17	+45 15 47.5	15.8	N		Z55
C/2016 M1	2017 08 09.46841	17 14 18.65	+45 08 27.0			K	D81
C/2016 M1	2017 08 09.47147	17 14 18.51	+45 08 24.1			K	D81
C/2016 M1	2017 08 09.47452	17 14 18.38	+45 08 21.0			K	D81
C/2016 M1	2017 08 09.47757	17 14 18.25	+45 08 17.9	14.8	T	K	D81
C/2016 M1	2017 08 09.98388	17 13 56.36	+44 59 59.5	15.6	N		I81
C/2016 M1	2017 08 09.98751	17 13 56.21	+44 59 55.7	15.6	N		I81
C/2016 M1	2017 08 09.99041	17 13 56.11	+44 59 53.0	15.7	N		I81
C/2016 M1	2017 08 10.92963	17 13 16.59	+44 44 22.6	16.3	N		K02
C/2016 M1	2017 08 10.93428	17 13 16.43	+44 44 18.3	16.3	N		K02
C/2016 M1	2017 08 10.94201	17 13 16.11	+44 44 10.5	16.1	N		K02
C/2016 M1	2017 08 11.96824	17 12 34.40	+44 27 06.0	15.7	N		J22
C/2016 M1	2017 08 11.97206	17 12 34.28	+44 27 01.9	15.7	N		J22
C/2016 M1	2017 08 11.97584	17 12 34.17	+44 26 58.4	15.7	N		J22
C/2016 M1	2017 08 12.15523	17 12 27.19	+44 23 56.8	19	T		C51
Geocentric position (km)	− 2120.4923	− 4470.6590	+ 4742.2910				
C/2016 M1	2017 08 12.41704	17 12 16.92	+44 19 34.0				C51
Geocentric position (km)	− 2106.3886	− 4514.6722	+ 4706.8043				
C/2016 M1	2017 08 12.51543	17 12 12.90	+44 17 54.1				900
C/2016 M1	2017 08 12.52258	17 12 12.62	+44 17 46.8	15.3	T		900
C/2016 M1	2017 08 12.54794	17 12 11.83	+44 17 21.6				C51
Geocentric position (km)	− 2099.1625	− 4536.5856	+ 4688.9550				
C/2016 M1	2017 08 12.61339	17 12 09.17	+44 16 14.3				C51
Geocentric position (km)	− 2095.5046	− 4547.5135	+ 4680.0110				
C/2016 M1	2017 08 12.67885	17 12 06.56	+44 15 10.3				C51
Geocentric position (km)	− 2091.8173	− 4558.4172	+ 4671.0560				
C/2016 M1	2017 08 12.67897	17 12 06.68	+44 15 08.5				C51
Geocentric position (km)	− 2081.4717	− 4500.6751	+ 4731.0884				
C/2016 M1	2017 08 12.74442	17 12 04.11	+44 14 02.1				C51
Geocentric position (km)	− 2077.8716	− 4511.6742	+ 4722.2041				
C/2016 M1	2017 08 12.80988	17 12 01.57	+44 12 56.0				C51
Geocentric position (km)	− 2074.2335	− 4522.6091	+ 4713.3447				
C/2016 M1	2017 08 12.87533	17 11 59.02	+44 11 49.9				C51
Geocentric position (km)	− 2070.5675	− 4533.5264	+ 4704.4787				
C/2016 M1	2017 08 12.94078	17 11 56.54	+44 10 43.5				C51
Geocentric position (km)	− 2066.8699	− 4544.4213	+ 4695.5945				
C/2016 M1	2017 08 13.00623	17 11 54.05	+44 09 36.4				C51
Geocentric position (km)	− 2063.1482	− 4555.3169	+ 4686.6815				
C/2016 M1	2017 08 13.07168	17 11 51.54	+44 08 31.3				C51
Geocentric position (km)	− 2059.3928	− 4566.1743	+ 4677.7734				
C/2016 M1	2017 08 13.20259	17 11 46.47	+44 06 18.6				C51
Geocentric position (km)	− 2051.7988	− 4587.8472	+ 4659.9005				
C/2016 M1	2017 08 13.26804	17 11 44.08	+44 05 12.3				C51
Geocentric position (km)	− 2047.9593	− 4598.6650	+ 4650.9274				
C/2016 M1	2017 08 13.26816	17 11 44.00	+44 05 10.9				C51
Geocentric position (km)	− 2038.3127	− 4541.0674	+ 4711.1721				
C/2016 M1	2017 08 13.32061	17 11 41.96	+44 04 18.7	15.8	T		T08
C/2016 M1	2017 08 13.32990	17 11 41.61	+44 04 09.2	15.9	T		T08
C/2016 M1	2017 08 13.34339	17 11 41.09	+44 03 55.4	15.8	T		T08
C/2016 M1	2017 08 13.34390	17 11 41.06	+44 03 55.0	15.8	T		T08
C/2016 M1	2017 08 13.39907	17 11 39.12	+44 02 58.9				C51
Geocentric position (km)	− 2030.7622	− 4562.7819	+ 4693.4479				
C/2016 M1	2017 08 13.46452	17 11 36.65	+44 01 52.4				C51
Geocentric position (km)	− 2026.9436	− 4573.6067	+ 4684.5701				
C/2016 M1	2017 08 13.52997	17 11 34.18	+44 00 45.4				C51
Geocentric position (km)	− 2023.0988	− 4584.4368	+ 4675.6524				
C/2016 M1	2017 08 13.59542	17 11 31.69	+43 59 38.8				C51
Geocentric position (km)	− 2019.2254	− 4595.2448	+ 4666.7203				
C/2016 M1	2017 08 13.66087	17 11 29.21	+43 58 30.8				C51
Geocentric position (km)	− 2015.3201	− 4606.0139	+ 4657.8017				
C/2016 M1	2017 08 13.79178	17 11 24.33	+43 56 18.4				C51
Geocentric position (km)	− 2007.4250	− 4627.5056	+ 4639.9032				
C/2016 M1	2017 08 13.87864	17 11 21.07	+43 54 49.3	16.1	T		Z43
C/2016 M1	2017 08 13.90553	17 11 20.05	+43 54 21.5	16.0	T		Z43
C/2016 M1	2017 08 13.92281	17 11 19.56	+43 54 04.9				C51
Geocentric position (km)	− 1990.5620	− 4591.5003	+ 4682.5718				
C/2016 M1	2017 08 13.92925	17 11 19.13	+43 53 57.3	16.5	N		K02
C/2016 M1	2017 08 13.92993	17 11 19.09	+43 53 56.7	15.9	T		Z43
C/2016 M1	2017 08 13.93546	17 11 18.92	+43 53 51.2	16.6	N		K02
C/2016 M1	2017 08 13.94163	17 11 18.67	+43 53 44.9	16.2	N		K02
C/2016 M1	2017 08 13.95780	17 11 18.06	+43 53 29.5	15.8	N	9	G40
C/2016 M1	2017 08 13.96475	17 11 17.80	+43 53 22.3	15.9	N	9	G40
C/2016 M1	2017 08 13.96706	17 11 17.72	+43 53 19.6	15.9	N	9	G40
C/2016 M1	2017 08 13.96941	17 11 17.62	+43 53 17.2	15.9	N	9	G40
C/2016 M1	2017 08 14.86322	17 10 45.25	+43 37 59.9	15.8	N		C23
C/2016 M1	2017 08 14.86547	17 10 45.17	+43 37 57.5	15.6	N		C23
C/2016 M1	2017 08 14.86772	17 10 45.07	+43 37 55.5	15.8	N		C23
C/2016 M1	2017 08 14.87962	17 10 44.64	+43 37 43.0	16.4	N	K	160
C/2016 M1	2017 08 14.88305	17 10 44.51	+43 37 39.5	16.4	N	K	160
C/2016 M1	2017 08 14.88312	17 10 44.53	+43 37 39.6	15.8	N		C86
C/2016 M1	2017 08 14.88647	17 10 44.37	+43 37 36.1	16.4	N	K	160
C/2016 M1	2017 08 14.88910	17 10 44.31	+43 37 33.9	15.8	N		C86
C/2016 M1	2017 08 14.89208	17 10 44.20	+43 37 30.8	15.8	N		C86
C/2016 M1	2017 08 14.89756	17 10 43.94	+43 37 25.0	17.5	N		C47
C/2016 M1	2017 08 14.90162	17 10 43.86	+43 37 20.3	17.3	N		C47
C/2016 M1	2017 08 14.90605	17 10 43.62	+43 37 15.7	17.2	N		C47
C/2016 M1	2017 08 14.91047	17 10 43.47	+43 37 10.6	16.9	N		C47
C/2016 M1	2017 08 14.91490	17 10 43.33	+43 37 06.6	17.3	N		C47
C/2016 M1	2017 08 14.91933	17 10 43.19	+43 37 02.0	17.3	N		C47
C/2016 M1	2017 08 15.30930	17 10 29.48	+43 30 20.7	16.7	T		T05
C/2016 M1	2017 08 15.31166	17 10 29.367	+43 30 18.56	17.3	T		F51
C/2016 M1	2017 08 15.31569	17 10 29.24	+43 30 13.9	16.7	T		T05
C/2016 M1	2017 08 15.32355	17 10 28.96	+43 30 05.8	16.7	T		T05
C/2016 M1	2017 08 15.32509	17 10 28.889	+43 30 04.68	17.2	T		F51
C/2016 M1	2017 08 15.33719	17 10 28.48	+43 29 51.6	16.6	T		T05
C/2016 M1	2017 08 15.33849	17 10 28.395	+43 29 50.75	17.4	T		F51
C/2016 M1	2017 08 15.35192	17 10 27.924	+43 29 36.84	17.4	T		F51
C/2016 M1	2017 08 15.92231	17 10 08.24	+43 19 45.0	16.6	N		K02
C/2016 M1	2017 08 15.92851	17 10 08.05	+43 19 38.4	16.2	N		K02
C/2016 M1	2017 08 15.93468	17 10 07.84	+43 19 32.1	16.6	N		K02
C/2016 M1	2017 08 16.89571	17 09 35.79	+43 02 51.2	15.9	N		C86
C/2016 M1	2017 08 16.90177	17 09 35.55	+43 02 45.7	15.8	N		C86
C/2016 M1	2017 08 16.90487	17 09 35.40	+43 02 42.5	15.8	N		C86
C/2016 M1	2017 08 16.90607	17 09 35.37	+43 02 40.1	17.3	N		C47
C/2016 M1	2017 08 16.90939	17 09 35.27	+43 02 36.8	16.5	N		C47

C/2016 M1	2017 08 16.91308	17 09 35.14	+43 02 32.9	16.9	N	C47
C/2016 M1	2017 08 16.91677	17 09 35.01	+43 02 29.2	17.1	N	C47
C/2016 M1	2017 08 16.92415	17 09 34.74	+43 02 21.8	16.2	N	C47
C/2016 M1	2017 08 17.38160	17 09 19.94	+42 54 23.1	15.9	N	T04
C/2016 M1	2017 08 17.38621	17 09 19.78	+42 54 18.3	16.0	N	T04
C/2016 M1	2017 08 17.38966	17 09 19.66	+42 54 14.4	16.0	N	T04
C/2016 M1	2017 08 17.69692	17 09 09.93	+42 48 53.7	16.4	N	C97
C/2016 M1	2017 08 17.75306	17 09 08.21	+42 47 53.7	16.4	N	C97
C/2016 M1	2017 08 17.82338	17 09 06.02	+42 46 38.8	16.6	N	K 160
C/2016 M1	2017 08 17.82616	17 09 05.93	+42 46 35.9	16.6	N	K 160
C/2016 M1	2017 08 17.82885	17 09 05.81	+42 46 33.0	16.6	N	K 160
C/2016 M1	2017 08 18.90870	17 08 32.81	+42 27 32.5	14.8	T	Z43
C/2016 M1	2017 08 18.93414	17 08 32.04	+42 27 04.9	15.1	T	Z43
C/2016 M1	2017 08 18.98132	17 08 30.53	+42 26 15.8	16.3	N	9 G40
C/2016 M1	2017 08 18.99230	17 08 30.23	+42 26 04.1	16.3	N	9 G40
C/2016 M1	2017 08 19.01629	17 08 29.48	+42 25 38.6	16.2	N	9 G40
C/2016 M1	2017 08 19.26373	17 08 22.323	+42 21 16.74	17.5	T	F51
C/2016 M1	2017 08 19.27590	17 08 21.949	+42 21 03.97	17.5	T	F51
C/2016 M1	2017 08 19.28801	17 08 21.589	+42 20 51.02	17.4	T	F51
C/2016 M1	2017 08 19.30010	17 08 21.216	+42 20 38.21	17.4	T	F51
C/2016 M1	2017 08 19.30518	17 08 21.08	+42 20 32.4	16.4	T	T05
C/2016 M1	2017 08 19.31447	17 08 20.79	+42 20 22.3	16.4	T	T05
C/2016 M1	2017 08 19.32091	17 08 20.61	+42 20 15.5	16.4	T	T05
C/2016 M1	2017 08 19.33406	17 08 20.21	+42 20 01.7	16.5	T	T05
C/2016 M1	2017 08 19.90801	17 08 03.70	+42 09 50.0	16.6	N	K97
C/2016 M1	2017 08 19.92709	17 08 03.14	+42 09 29.7	16.5	N	K97
C/2016 M1	2017 08 19.94328	17 08 02.68	+42 09 12.0	16.6	N	K97
C/2016 M1	2017 08 20.89231	17 07 36.43	+41 52 17.1	16.5	N	K97
C/2016 M1	2017 08 20.92465	17 07 35.56	+41 51 42.4	16.4	N	K97
C/2016 M1	2017 08 20.93053	17 07 35.40	+41 51 36.1	16.4	N	K97
C/2016 M1	2017 08 20.94865	17 07 34.89	+41 51 16.9	15.7	N	J01
C/2016 M1	2017 08 20.95581	17 07 34.67	+41 51 09.9	15.7	N	J01
C/2016 M1	2017 08 20.96297	17 07 34.45	+41 51 01.3	15.7	N	J01
C/2016 M1	2017 08 21.70411	17 07 14.96	+41 37 45.4	16.5	N	C97
C/2016 M1	2017 08 21.72366	17 07 14.45	+41 37 24.4	16.6	N	C97
C/2016 M1	2017 08 21.77526	17 07 13.09	+41 36 28.3	16.7	N	C97
C/2016 M1	2017 08 21.91556	17 07 09.51	+41 33 56.3	14.6	T	Z43
C/2016 M1	2017 08 21.93848	17 07 08.91	+41 33 31.3	15.4	T	Z43
C/2016 M1	2017 08 22.88204	17 06 45.49	+41 16 32.3	16.8	N	C47
C/2016 M1	2017 08 22.88573	17 06 45.30	+41 16 27.3	16.8	N	C47
C/2016 M1	2017 08 22.89384	17 06 45.21	+41 16 18.3	16.7	N	C47
C/2016 M1	2017 08 22.89790	17 06 45.07	+41 16 13.7	17.0	N	C47
C/2016 M1	2017 08 22.90196	17 06 44.93	+41 16 09.6	16.9	N	C47
C/2016 M1	2017 08 22.97397	17 06 43.23	+41 14 51.1	15.5	N	I81
C/2016 M1	2017 08 22.97823	17 06 43.12	+41 14 46.5	15.5	N	I81
C/2016 M1	2017 08 22.98107	17 06 43.06	+41 14 43.4	15.5	N	I81
C/2016 M1	2017 08 23.26866	17 06 36.231	+41 09 32.89	16.8	T	F51
C/2016 M1	2017 08 23.29326	17 06 35.64	+41 09 05.9	16.0	T	T05
C/2016 M1	2017 08 23.30254	17 06 35.393	+41 08 56.03	16.8	T	F51
C/2016 M1	2017 08 23.30509	17 06 35.35	+41 08 52.8	16.0	T	T05
C/2016 M1	2017 08 23.31485	17 06 35.091	+41 08 42.60	16.9	T	F51
C/2016 M1	2017 08 23.31642	17 06 35.05	+41 08 40.6	16.1	T	T05
C/2016 M1	2017 08 23.32291	17 06 34.92	+41 08 33.3	16.3	T	T05
C/2016 M1	2017 08 23.32713	17 06 34.792	+41 08 29.23	16.9	T	F51
C/2016 M1	2017 08 23.86075	17 06 22.41	+40 58 47.9	17.1	N	C47
C/2016 M1	2017 08 23.86407	17 06 22.35	+40 58 43.4	17.3	N	C47
C/2016 M1	2017 08 23.86776	17 06 22.28	+40 58 39.7	17.2	N	C47
C/2016 M1	2017 08 23.87145	17 06 22.18	+40 58 36.0	16.6	N	C47
C/2016 M1	2017 08 23.87514	17 06 22.06	+40 58 31.5	17.3	N	C47
C/2016 M1	2017 08 23.87883	17 06 21.99	+40 58 27.8	17.3	N	C47
C/2016 M1	2017 08 23.88289	17 06 21.90	+40 58 23.4	17.2	N	C47
C/2016 M1	2017 08 24.22120	17 06 14.20	+40 52 14.5	15.8	T	H45
C/2016 M1	2017 08 24.22229	17 06 14.18	+40 52 13.3	15.7	T	H45
C/2016 M1	2017 08 24.22396	17 06 14.14	+40 52 11.3	15.7	T	H45
C/2016 M1	2017 08 24.22508	17 06 14.10	+40 52 10.3	15.7	T	H45
C/2016 M1	2017 08 24.22601	17 06 14.08	+40 52 09.4	15.9	T	H45
C/2016 M1	2017 08 24.22694	17 06 14.06	+40 52 08.2	15.8	T	H45
C/2016 M1	2017 08 24.96895	17 05 57.96	+40 38 37.3	15.5	N	B54
C/2016 M1	2017 08 24.97042	17 05 57.91	+40 38 35.3	15.5	N	B54
C/2016 M1	2017 08 24.97439	17 05 57.81	+40 38 31.4	15.6	N	B54
C/2016 M1	2017 08 25.27730	17 05 51.49	+40 33 00.1	15.5	T	T08
C/2016 M1	2017 08 25.28735	17 05 51.29	+40 32 49.0	15.5	T	T08
C/2016 M1	2017 08 25.29132	17 05 51.20	+40 32 44.7	15.5	T	T08
C/2016 M1	2017 08 25.29482	17 05 51.11	+40 32 40.9	15.5	T	T08
C/2016 M1	2017 08 25.83233	17 05 40.14	+40 22 50.4	16.1	N	K14
C/2016 M1	2017 08 25.84221	17 05 39.91	+40 22 39.6	16.0	N	K14
C/2016 M1	2017 08 25.84713	17 05 39.75	+40 22 33.6	15.6	N	970
C/2016 M1	2017 08 25.85005	17 05 39.74	+40 22 30.7	16.2	N	K14
C/2016 M1	2017 08 25.85367	17 05 39.64	+40 22 26.4	15.6	N	970
C/2016 M1	2017 08 25.85788	17 05 39.65	+40 22 21.9	16.2	N	K14
C/2016 M1	2017 08 25.86571	17 05 39.43	+40 22 13.6	16.2	N	K14
C/2016 M1	2017 08 26.52703	17 05 26.40	+40 10 05.5			K 367
C/2016 M1	2017 08 26.52824	17 05 26.38	+40 10 04.2			K 367
C/2016 M1	2017 08 26.52946	17 05 26.36	+40 10 02.8	15.0	T	K 367
C/2016 M1	2017 08 26.84766	17 05 20.36	+40 04 12.1	15.8	N	KK25
C/2016 M1	2017 08 26.85393	17 05 20.21	+40 04 05.1	15.8	N	KK25
C/2016 M1	2017 08 26.86177	17 05 20.10	+40 03 56.8	16.3	N	K14
C/2016 M1	2017 08 26.86210	17 05 20.07	+40 03 56.2	15.8	N	KK25
C/2016 M1	2017 08 26.87497	17 05 19.77	+40 03 42.8	16.3	N	K14
C/2016 M1	2017 08 26.88412	17 05 19.67	+40 03 31.4	15.4	N	K14
C/2016 M1	2017 08 27.84017	17 05 02.43	+39 45 55.0	15.8	N	C23
C/2016 M1	2017 08 27.84317	17 05 02.36	+39 45 51.1	15.7	N	C23
C/2016 M1	2017 08 27.84616	17 05 02.33	+39 45 48.3	15.6	N	C23
C/2016 M1	2017 08 27.89961	17 05 01.36	+39 44 49.1	15.8	N	KK25
C/2016 M1	2017 08 27.90548	17 05 01.25	+39 44 42.4	15.7	N	KK25
C/2016 M1	2017 08 27.91136	17 05 01.14	+39 44 35.4	15.7	N	KK25
C/2016 M1	2017 08 28.88462	17 04 44.97	+39 26 36.2	15.6	N	212
C/2016 M1	2017 08 28.88606	17 04 44.95	+39 26 34.5	15.6	N	212
C/2016 M1	2017 08 28.88750	17 04 44.93	+39 26 32.8	15.6	N	212
C/2016 M1	2017 08 28.88896	17 04 44.91	+39 26 31.1	15.5	N	212
C/2016 M1	2017 08 28.91540	17 04 44.55	+39 26 01.2	15.2	N	I81
C/2016 M1	2017 08 28.91966	17 04 44.47	+39 25 57.4	15.3	N	I81
C/2016 M1	2017 08 28.92108	17 04 44.39	+39 25 55.8	15.5	N	I81
C/2016 M1	2017 08 29.03835	17 04 42.53	+39 23 45.5	16.2	N	I15
C/2016 M1	2017 08 29.04052	17 04 42.50	+39 23 43.0	16.1	N	I15
C/2016 M1	2017 08 29.04268	17 04 42.45	+39 23 40.5	16.1	N	I15

C/2016 M1	2017 08 29.85979	17 04 29.91	+39 08 30.2	15.9	N	K77
C/2016 M1	2017 08 29.86639	17 04 29.79	+39 08 23.2	15.9	N	K77
C/2016 M1	2017 08 29.87296	17 04 29.70	+39 08 15.9	15.9	N	K77
C/2016 M1	2017 08 29.96648	17 04 28.42	+39 06 30.5	15.1	N	I81
C/2016 M1	2017 08 29.96932	17 04 28.36	+39 06 27.8	15.2	N	I81
C/2016 M1	2017 08 29.97216	17 04 28.32	+39 06 24.6	15.2	N	I81
C/2016 M1	2017 08 30.55390	17 04 20.04	+38 55 35.8			900
C/2016 M1	2017 08 30.56104	17 04 19.93	+38 55 27.7	14.9	T	900
C/2016 M1	2017 08 30.87102	17 04 15.75	+38 49 42.3	15.5	N	Z55
C/2016 M1	2017 08 30.87204	17 04 15.76	+38 49 41.3	15.4	N	Z55
C/2016 M1	2017 08 30.87281	17 04 15.78	+38 49 39.8	15.6	N	Z55
C/2016 M1	2017 08 30.87362	17 04 15.74	+38 49 38.9	15.6	N	Z55
C/2016 M1	2017 08 30.87441	17 04 15.73	+38 49 38.1	15.5	N	Z55
C/2016 M1	2017 08 30.96464	17 04 14.47	+38 47 55.3	17.0	N	K C47
C/2016 M1	2017 08 30.96796	17 04 14.39	+38 47 52.5	17.5	N	K C47
C/2016 M1	2017 08 30.97977	17 04 14.25	+38 47 39.1	17.5	N	K C47
C/2016 M1	2017 08 30.98383	17 04 14.22	+38 47 34.2	17.6	N	K C47
C/2016 M1	2017 08 31.00677	17 04 14.02	+38 47 09.8	16.2	N	I15
C/2016 M1	2017 08 31.01110	17 04 13.92	+38 47 04.8	16.1	N	I15
C/2016 M1	2017 08 31.01542	17 04 13.89	+38 47 00.0	16.5	N	I15
C/2016 M1	2017 08 31.26181	17 04 10.67	+38 42 25.1	15.5	T	T05
C/2016 M1	2017 08 31.27208	17 04 10.53	+38 42 13.6	15.4	T	T05
C/2016 M1	2017 08 31.27500	17 04 10.49	+38 42 10.4	15.4	T	T05
C/2016 M1	2017 09 01.24200	17 03 58.672	+38 24 07.42	16.3	T	F51
C/2016 M1	2017 09 01.25461	17 03 58.496	+38 23 53.07	16.5	T	F51
C/2016 M1	2017 09 01.27971	17 03 58.177	+38 23 24.90	17.1	T	F51
C/2016 M1	2017 09 01.87580	17 03 51.51	+38 12 14.2	15.4	N	585
C/2016 M1	2017 09 01.88005	17 03 51.44	+38 12 09.2	15.5	N	585
C/2016 M1	2017 09 01.88076	17 03 51.43	+38 12 08.6	15.5	N	585
C/2016 M1	2017 09 01.88147	17 03 51.44	+38 12 07.5	15.5	N	585
C/2016 M1	2017 09 01.88218	17 03 51.43	+38 12 06.7	15.5	N	585
C/2016 M1	2017 09 01.88289	17 03 51.42	+38 12 06.0	15.5	N	585
C/2016 M1	2017 09 01.88369	17 03 51.41	+38 12 05.1	15.5	N	585
C/2016 M1	2017 09 01.97487	17 03 50.38	+38 10 23.9	15.6	N	I72
C/2016 M1	2017 09 02.02020	17 03 49.93	+38 09 32.8	15.6	N	I72
C/2016 M1	2017 09 02.06652	17 03 49.48	+38 08 43.3	15.6	N	I72
C/2016 M1	2017 09 02.23272	17 03 47.81	+38 05 34.2	15.4	T	T08
C/2016 M1	2017 09 02.24850	17 03 47.64	+38 05 16.5	15.4	T	T08
C/2016 M1	2017 09 02.25100	17 03 47.62	+38 05 13.8	15.4	T	T08
C/2016 M1	2017 09 02.26200	17 03 47.47	+38 05 01.2	16.0	T	T08
C/2016 M1	2017 09 02.94465	17 03 40.70	+37 52 12.1	16.1	N	K02
C/2016 M1	2017 09 02.94928	17 03 40.65	+37 52 07.4	16.4	N	K02
C/2016 M1	2017 09 02.95704	17 03 40.56	+37 51 57.8	15.9	N	K02
C/2016 M1	2017 09 03.00627	17 03 40.11	+37 51 01.9	15.4	N	I81
C/2016 M1	2017 09 03.01553	17 03 40.04	+37 50 51.9	15.4	N	I81
C/2016 M1	2017 09 03.01837	17 03 40.00	+37 50 48.6	15.4	N	I81
C/2016 M1	2017 09 04.23762	17 03 29.55	+37 27 55.4	15.4	T	T05
C/2016 M1	2017 09 04.23808	17 03 29.56	+37 27 55.3	15.4	T	T05
C/2016 M1	2017 09 04.23855	17 03 29.55	+37 27 54.2	15.3	T	T05
C/2016 M1	2017 09 04.23901	17 03 29.52	+37 27 54.2	16.5	T	T05
C/2016 M1	2017 09 04.23949	17 03 29.56	+37 27 53.4	15.4	T	T05
C/2016 M1	2017 09 04.24675	17 03 29.50	+37 27 44.9	15.3	T	T05
C/2016 M1	2017 09 04.25448	17 03 29.43	+37 27 36.4	15.4	T	T05
C/2016 M1	2017 09 04.25495	17 03 29.43	+37 27 35.7	15.3	T	T05
C/2016 M1	2017 09 04.25545	17 03 29.40	+37 27 35.6	15.4	T	T05
C/2016 M1	2017 09 04.26366	17 03 29.33	+37 27 26.2	15.3	T	T05
C/2016 M1	2017 09 04.26462	17 03 29.32	+37 27 25.4	16.5	T	T05
C/2016 M1	2017 09 04.27031	17 03 29.29	+37 27 18.9	15.4	T	T05
C/2016 M1	2017 09 04.79671	17 03 25.38	+37 17 23.2	15.4	N	C35
C/2016 M1	2017 09 04.79824	17 03 25.46	+37 17 21.3	15.4	N	C35
C/2016 M1	2017 09 04.79992	17 03 25.31	+37 17 19.3	15.5	N	C35
C/2016 M1	2017 09 04.87138	17 03 24.82	+37 15 59.6	15.6	N	C86
C/2016 M1	2017 09 04.87606	17 03 24.79	+37 15 54.3	15.6	N	C86
C/2016 M1	2017 09 04.87838	17 03 24.72	+37 15 51.9	15.7	N	C86
C/2016 M1	2017 09 05.90043	17 03 18.23	+36 56 35.5	15.2	N	I81
C/2016 M1	2017 09 05.90185	17 03 18.24	+36 56 34.2	15.8	N	I81
C/2016 M1	2017 09 05.90469	17 03 18.19	+36 56 30.8	15.4	N	I81
C/2016 M1	2017 09 08.87591	17 03 06.35	+36 00 25.1	15.4	N	I81
C/2016 M1	2017 09 08.87750	17 03 06.33	+36 00 22.8	15.2	N	I81
C/2016 M1	2017 09 08.87833	17 03 06.28	+36 00 22.2	15.2	N	I81
C/2016 M1	2017 09 08.92110	17 03 06.17	+35 59 34.1	15.6	N	J22
C/2016 M1	2017 09 08.92906	17 03 06.18	+35 59 25.6	15.6	N	J22
C/2016 M1	2017 09 09.92035	17 03 04.64	+35 40 39.9	15.6	N	970
C/2016 M1	2017 09 09.92718	17 03 04.59	+35 40 32.0	15.5	N	970
C/2016 M1	2017 09 10.86659	17 03 04.26	+35 22 47.3	15.5	N	C86
C/2016 M1	2017 09 10.87124	17 03 04.25	+35 22 42.2	15.5	N	C86
C/2016 M1	2017 09 10.87358	17 03 04.30	+35 22 40.0	15.6	N	C86
C/2016 M1	2017 09 11.07784	17 03 04.40	+35 18 46.3	15.2	T	V83
C/2016 M1	2017 09 11.08797	17 03 04.30	+35 18 35.2	15.8	T	V83
C/2016 M1	2017 09 11.09848	17 03 04.27	+35 18 23.3	15.8	T	V83
C/2016 M1	2017 09 11.10804	17 03 04.27	+35 18 12.3	15.9	T	V83
C/2016 M1	2017 09 11.11869	17 03 04.27	+35 18 00.3	15.7	T	V83
C/2016 M1	2017 09 11.12595	17 03 04.29	+35 17 52.0	15.8	T	V83
C/2016 M1	2017 09 11.83421	17 03 04.81	+35 04 27.5	15.2	N	K77
C/2016 M1	2017 09 11.84181	17 03 04.82	+35 04 19.5	15.3	N	K77
C/2016 M1	2017 09 11.96815	17 03 04.99	+35 01 54.9	16.5	N	K02
C/2016 M1	2017 09 11.97124	17 03 04.98	+35 01 51.2	16.6	N	K02
C/2016 M1	2017 09 11.97588	17 03 04.99	+35 01 45.9	16.5	N	K02
C/2016 M1	2017 09 12.22323	17 03 05.42	+34 57 07.3	15.3	T	T05
C/2016 M1	2017 09 12.22415	17 03 05.43	+34 57 06.3	15.3	T	T05
C/2016 M1	2017 09 12.22507	17 03 05.45	+34 57 05.1	15.4	T	T05
C/2016 M1	2017 09 12.22553	17 03 05.44	+34 57 04.8	15.3	T	T05
C/2016 M1	2017 09 12.23162	17 03 05.43	+34 56 57.7	15.3	T	T05
C/2016 M1	2017 09 12.23345	17 03 05.44	+34 56 55.6	15.3	T	T05
C/2016 M1	2017 09 12.23912	17 03 05.45	+34 56 49.2	15.3	T	T05
C/2016 M1	2017 09 12.24049	17 03 05.45	+34 56 47.7	15.3	T	T05
C/2016 M1	2017 09 13.84872	17 03 09.58	+34 26 23.1	15.5	N	I72
C/2016 M1	2017 09 13.86657	17 03 09.63	+34 26 02.7	15.6	N	I72
C/2016 M1	2017 09 13.86853	17 03 09.66	+34 25 59.0	15.5	N	J38
C/2016 M1	2017 09 13.87034	17 03 09.67	+34 25 57.1	15.5	N	J38
C/2016 M1	2017 09 13.87396	17 03 09.67	+34 25 52.9	15.5	N	J38
C/2016 M1	2017 09 13.88328	17 03 09.70	+34 25 43.7	15.5	N	I72
C/2016 M1	2017 09 13.92612	17 03 09.73	+34 24 54.2	15.6	N	C86
C/2016 M1	2017 09 13.92850	17 03 09.79	+34 24 50.8	15.6	N	C86
C/2016 M1	2017 09 13.93322	17 03 09.80	+34 24 44.9	15.6	N	C86
C/2016 M1	2017 09 14.22164	17 03 11.01	+34 19 19.3	15.4	T	T08

C/2016 M1	2017 09 14.22256	17 03 11.00	+34 19 18.4	15.4	T	T08
C/2016 M1	2017 09 14.23014	17 03 11.04	+34 19 09.7	15.3	T	T08
C/2016 M1	2017 09 14.23336	17 03 11.04	+34 19 06.1	15.4	T	T08
C/2016 M1	2017 09 15.49704	17 03 16.80	+33 55 12.3			D95
C/2016 M1	2017 09 15.50136	17 03 16.82	+33 55 07.6			D95
C/2016 M1	2017 09 15.50244	17 03 16.86	+33 55 06.4			K D81
C/2016 M1	2017 09 15.50568	17 03 16.80	+33 55 02.5	14.2	T	D95
C/2016 M1	2017 09 15.50779	17 03 16.85	+33 55 00.5			K D81
C/2016 M1	2017 09 15.51313	17 03 16.93	+33 54 52.8			K D81
C/2016 M1	2017 09 15.51847	17 03 16.94	+33 54 46.9	15.0	T	K D81
C/2016 M1	2017 09 15.84235	17 03 18.73	+33 48 40.4	15.5	N	C23
C/2016 M1	2017 09 15.84759	17 03 18.77	+33 48 34.8	15.5	N	C23
C/2016 M1	2017 09 15.85208	17 03 18.78	+33 48 29.4	15.5	N	C23
C/2016 M1	2017 09 15.87029	17 03 18.88	+33 48 10.4	15.5	N	I72
C/2016 M1	2017 09 15.88138	17 03 18.94	+33 47 56.6	15.4	N	J53
C/2016 M1	2017 09 15.88402	17 03 18.93	+33 47 53.0	15.4	N	J53
C/2016 M1	2017 09 15.88797	17 03 18.96	+33 47 48.9	15.5	N	J53
C/2016 M1	2017 09 15.90142	17 03 19.05	+33 47 34.9	15.5	N	I72
C/2016 M1	2017 09 15.91068	17 03 19.07	+33 47 23.4	15.5	N	J22
C/2016 M1	2017 09 15.91470	17 03 19.08	+33 47 19.4	15.5	N	J22
C/2016 M1	2017 09 15.91867	17 03 19.13	+33 47 14.1	15.5	N	J22
C/2016 M1	2017 09 15.92469	17 03 19.17	+33 47 08.5	15.5	N	I72
C/2016 M1	2017 09 16.84458	17 03 24.99	+33 29 45.4	15.4	N	I81
C/2016 M1	2017 09 16.84742	17 03 25.01	+33 29 41.9	15.4	N	I81
C/2016 M1	2017 09 16.85026	17 03 25.03	+33 29 39.0	15.5	N	I81
C/2016 M1	2017 09 17.24674	17 03 27.80	+33 22 11.2	15.4	T	T08
C/2016 M1	2017 09 17.25473	17 03 27.86	+33 22 02.0	15.4	T	T08
C/2016 M1	2017 09 17.26224	17 03 27.89	+33 21 53.4	15.4	T	T08
C/2016 M1	2017 09 17.26952	17 03 27.96	+33 21 45.1	15.4	T	T08
C/2016 M1	2017 09 17.84983	17 03 32.32	+33 10 48.4	15.5	N	212
C/2016 M1	2017 09 17.85273	17 03 32.34	+33 10 45.1	15.5	N	212
C/2016 M1	2017 09 17.85560	17 03 32.38	+33 10 41.8	15.5	N	212
C/2016 M1	2017 09 18.22534	17 03 35.36	+33 03 44.5	16.0	T	T08
C/2016 M1	2017 09 18.22626	17 03 35.38	+33 03 43.3	16.0	T	T08
C/2016 M1	2017 09 18.22764	17 03 35.39	+33 03 41.7	16.0	T	T08
C/2016 M1	2017 09 18.23224	17 03 35.42	+33 03 36.6	16.0	T	T08
C/2016 M1	2017 09 18.50829	17 03 37.71	+32 58 23.8	14.2	T	Q11
C/2016 M1	2017 09 18.51679	17 03 37.77	+32 58 14.3			Q11
C/2016 M1	2017 09 18.52249	17 03 37.83	+32 58 07.7			Q11
C/2016 M1	2017 09 19.83616	17 03 50.03	+32 33 24.6	15.4	N	J53
C/2016 M1	2017 09 19.84015	17 03 50.07	+32 33 20.0	15.4	N	J53
C/2016 M1	2017 09 19.84411	17 03 50.11	+32 33 15.2	15.4	N	J53
C/2016 M1	2017 09 19.84878	17 03 50.13	+32 33 10.8	15.5	N	Z55
C/2016 M1	2017 09 19.85200	17 03 50.18	+32 33 06.8	15.4	N	I81
C/2016 M1	2017 09 19.85245	17 03 50.17	+32 33 06.8	15.5	N	Z55
C/2016 M1	2017 09 19.85369	17 03 50.19	+32 33 05.6	15.5	N	Z55
C/2016 M1	2017 09 19.85451	17 03 50.20	+32 33 04.5	15.5	N	Z55
C/2016 M1	2017 09 19.85911	17 03 50.25	+32 32 58.9	15.4	N	I81
C/2016 M1	2017 09 19.86480	17 03 50.30	+32 32 52.4	15.4	N	I81
C/2016 M1	2017 09 20.90466	17 04 01.21	+32 13 21.3	15.4	N	C86
C/2016 M1	2017 09 20.91167	17 04 01.26	+32 13 13.1	15.5	N	C86
C/2016 M1	2017 09 20.91400	17 04 01.30	+32 13 10.3	15.5	N	C86
C/2016 M1	2017 09 21.13738	17 04 03.77	+32 08 58.7	15.2	N	KW33
C/2016 M1	2017 09 21.16155	17 04 04.05	+32 08 31.6	15.2	N	KW33
C/2016 M1	2017 09 21.18577	17 04 04.32	+32 08 04.7	15.4	N	KW33
C/2016 M1	2017 09 21.24296	17 04 05.004	+32 07 01.46	17.1	T	F51
C/2016 M1	2017 09 21.25601	17 04 05.147	+32 06 46.70	17.1	T	F51
C/2016 M1	2017 09 21.26912	17 04 05.283	+32 06 31.80	17.0	T	F51
C/2016 M1	2017 09 21.28219	17 04 05.422	+32 06 17.11	17.0	T	F51
C/2016 M1	2017 09 21.84921	17 04 12.12	+31 55 39.0	15.3	N	I81
C/2016 M1	2017 09 21.85630	17 04 12.20	+31 55 30.6	15.3	N	I81
C/2016 M1	2017 09 21.86056	17 04 12.24	+31 55 26.2	15.3	N	I81
C/2016 M1	2017 09 22.18372	17 04 16.26	+31 49 23.4			703
C/2016 M1	2017 09 22.18913	17 04 16.29	+31 49 17.0			703
C/2016 M1	2017 09 22.78778	17 04 23.87	+31 38 05.5	15.9	N	K A77
C/2016 M1	2017 09 22.79379	17 04 23.94	+31 37 59.4	15.9	N	K A77
C/2016 M1	2017 09 22.79966	17 04 24.00	+31 37 52.5	16.0	N	K A77
C/2016 M1	2017 09 22.80604	17 04 24.09	+31 37 46.2	16.1	N	K A77
C/2016 M1	2017 09 22.81341	17 04 24.16	+31 37 37.0	16.2	N	K A77
C/2016 M1	2017 09 22.84024	17 04 24.60	+31 37 07.2	15.4	N	J22
C/2016 M1	2017 09 22.84394	17 04 24.52	+31 37 02.2	15.6	N	B96
C/2016 M1	2017 09 22.84557	17 04 24.54	+31 37 00.2	15.5	N	B96
C/2016 M1	2017 09 22.84617	17 04 24.58	+31 37 00.8	15.4	N	J22
C/2016 M1	2017 09 22.84720	17 04 24.57	+31 36 58.6	15.5	N	B96
C/2016 M1	2017 09 22.84884	17 04 24.58	+31 36 56.9	15.5	N	B96
C/2016 M1	2017 09 22.85047	17 04 24.66	+31 36 55.0	15.5	N	B96
C/2016 M1	2017 09 22.85211	17 04 24.62	+31 36 53.1	15.5	N	B96
C/2016 M1	2017 09 23.25100	17 04 29.92	+31 29 26.9	15.6	T	T05
C/2016 M1	2017 09 23.25966	17 04 30.02	+31 29 17.2	15.6	T	T05
C/2016 M1	2017 09 23.26814	17 04 30.14	+31 29 07.7	15.6	T	T05
C/2016 M1	2017 09 23.27648	17 04 30.23	+31 28 58.2	15.6	T	T05
C/2016 M1	2017 09 23.83122	17 04 37.85	+31 18 36.8	15.7	N	B96
C/2016 M1	2017 09 23.83285	17 04 37.86	+31 18 34.6	15.7	N	B96
C/2016 M1	2017 09 23.83448	17 04 37.86	+31 18 32.7	15.7	N	B96
C/2016 M1	2017 09 23.83612	17 04 37.90	+31 18 31.1	15.7	N	B96
C/2016 M1	2017 09 23.83775	17 04 37.90	+31 18 29.5	15.7	N	B96
C/2016 M1	2017 09 23.83939	17 04 37.92	+31 18 27.6	15.7	N	B96
C/2016 M1	2017 09 24.79652	17 04 51.78	+31 00 38.5	15.5	N	C23
C/2016 M1	2017 09 24.80101	17 04 51.87	+31 00 33.3	15.5	N	C23
C/2016 M1	2017 09 24.80476	17 04 51.91	+31 00 29.1	15.5	N	C23
C/2016 M1	2017 09 24.82920	17 04 52.30	+31 00 01.7	15.7	N	B96
C/2016 M1	2017 09 24.83083	17 04 52.30	+30 59 59.9	15.7	N	B96
C/2016 M1	2017 09 24.83248	17 04 52.32	+30 59 58.1	15.7	N	B96
C/2016 M1	2017 09 24.83411	17 04 52.38	+30 59 56.1	15.7	N	B96
C/2016 M1	2017 09 24.83574	17 04 52.38	+30 59 54.6	15.7	N	B96
C/2016 M1	2017 09 24.83737	17 04 52.41	+30 59 52.7	15.7	N	B96
C/2016 M1	2017 09 25.25253	17 04 58.69	+30 52 10.5	15.3	T	T08
C/2016 M1	2017 09 25.26005	17 04 58.80	+30 52 02.1	15.3	T	T08
C/2016 M1	2017 09 25.26738	17 04 58.90	+30 51 53.9	15.3	T	T08
C/2016 M1	2017 09 25.27471	17 04 59.00	+30 51 45.7	15.3	T	T08
C/2016 M1	2017 09 25.76341	17 05 06.66	+30 42 40.5	16.4	N	K K87
C/2016 M1	2017 09 25.77124	17 05 06.80	+30 42 31.6	16.4	N	K K87
C/2016 M1	2017 09 25.77909	17 05 06.91	+30 42 22.8	16.4	N	K K87
C/2016 M1	2017 09 25.80280	17 05 07.28	+30 41 56.5	16.2	N	C47
C/2016 M1	2017 09 25.80650	17 05 07.31	+30 41 52.7	16.2	N	C47
C/2016 M1	2017 09 25.81055	17 05 07.38	+30 41 48.1	16.7	N	C47

C/2016 M1	2017 09 25.81461	17 05 07.41	+30 41 43.7	17.2	N	C47
C/2016 M1	2017 09 25.81867	17 05 07.54	+30 41 39.5	17.0	N	C47
C/2016 M1	2017 09 25.82273	17 05 07.58	+30 41 34.8	17.1	N	C47
C/2016 M1	2017 09 25.84001	17 05 07.90	+30 41 15.2	15.1	N	I81
C/2016 M1	2017 09 25.84072	17 05 07.91	+30 41 14.5	15.1	N	I81
C/2016 M1	2017 09 25.84142	17 05 07.93	+30 41 13.6	15.1	N	I81
C/2016 M1	2017 09 25.84212	17 05 07.94	+30 41 12.8	15.1	N	I81
C/2016 M1	2017 09 25.84283	17 05 07.94	+30 41 12.1	15.1	N	I81
C/2016 M1	2017 09 25.84353	17 05 07.96	+30 41 11.3	15.0	N	I81
C/2016 M1	2017 09 25.84423	17 05 07.97	+30 41 10.5	15.1	N	I81
C/2016 M1	2017 09 25.84494	17 05 07.96	+30 41 09.8	15.1	N	I81
C/2016 M1	2017 09 25.84564	17 05 07.99	+30 41 08.9	15.1	N	I81
C/2016 M1	2017 09 26.88523	17 05 24.97	+30 21 55.1	15.4	N	I72
C/2016 M1	2017 09 26.90725	17 05 25.33	+30 21 30.4	15.4	N	I72
C/2016 M1	2017 09 26.92889	17 05 25.69	+30 21 06.3	15.4	N	I72
C/2016 M1	2017 09 27.23815	17 05 31.02	+30 15 23.2	15.2	T	T05
C/2016 M1	2017 09 27.25111	17 05 31.25	+30 15 08.7	15.2	T	T05
C/2016 M1	2017 09 27.26039	17 05 31.39	+30 14 58.5	15.2	T	T05
C/2016 M1	2017 09 27.26870	17 05 31.52	+30 14 49.2	15.2	T	T05
C/2016 M1	2017 09 29.24243	17 06 07.38	+29 38 28.2	15.3	T	T08
C/2016 M1	2017 09 29.25192	17 06 07.56	+29 38 17.7	15.3	T	T08
C/2016 M1	2017 09 29.26111	17 06 07.74	+29 38 07.7	15.3	T	T08
C/2016 M1	2017 09 29.26913	17 06 07.87	+29 37 58.9	15.9	T	T08
C/2016 M1	2017 09 29.84890	17 06 19.10	+29 27 21.0	15.6	N	9 G40
C/2016 M1	2017 09 29.85404	17 06 19.17	+29 27 14.9	15.6	N	9 G40
C/2016 M1	2017 09 29.86352	17 06 19.34	+29 27 04.1	15.6	N	9 G40
C/2016 M1	2017 10 01.12818	17 06 44.91	+29 03 57.3	14.6	T	703
C/2016 M1	2017 10 01.13354	17 06 45.03	+29 03 51.3	14.5	T	703
C/2016 M1	2017 10 01.13888	17 06 45.13	+29 03 45.3	14.6	T	703
C/2016 M1	2017 10 01.14424	17 06 45.27	+29 03 39.6	14.5	T	703

C/2016 N4 (MASTER)

C/2016 N4	2017 06 28.60599	00 41 16.43	+40 53 23.6			D95
C/2016 N4	2017 06 28.60707	00 41 16.44	+40 53 25.1	15.8	T	D95
C/2016 N4	2017 06 30.45350	00 41 42.25	+41 37 24.2			5 U69
C/2016 N4	2017 06 30.45545	00 41 42.27	+41 37 26.4	15.6	T	5 U69
C/2016 N4	2017 07 04.12096	00 42 22.22	+43 05 50.6	16.5	N	J22
C/2016 N4	2017 07 04.12414	00 42 22.30	+43 05 56.3	16.5	N	J22
C/2016 N4	2017 07 04.12734	00 42 22.30	+43 06 02.6	16.5	N	J22
C/2016 N4	2017 07 07.73263	00 42 45.06	+44 34 23.0			349
C/2016 N4	2017 07 07.73975	00 42 45.07	+44 34 33.8	15.0	T	349
C/2016 N4	2017 07 13.02359	00 42 45.44	+46 46 21.5	17.4	N	K K02
C/2016 N4	2017 07 13.02980	00 42 45.38	+46 46 30.7	17.2	N	K K02
C/2016 N4	2017 07 13.08843	00 42 45.09	+46 47 59.5	16.2	N	C23
C/2016 N4	2017 07 13.09217	00 42 45.11	+46 48 04.6	16.4	N	C23
C/2016 N4	2017 07 13.09517	00 42 45.07	+46 48 09.8	15.7	N	C23
C/2016 N4	2017 07 15.90040	00 42 26.70	+47 59 08.0	16.4	N	K 107
C/2016 N4	2017 07 15.90721	00 42 26.60	+47 59 17.4	17.0	N	K 107
C/2016 N4	2017 07 17.96227	00 42 04.05	+48 51 41.1	17.0	N	C47
C/2016 N4	2017 07 17.96596	00 42 04.04	+48 51 46.2	17.7	N	C47
C/2016 N4	2017 07 17.96965	00 42 03.93	+48 51 51.9	17.2	N	C47
C/2016 N4	2017 07 17.97334	00 42 03.89	+48 51 57.8	17.4	N	C47
C/2016 N4	2017 07 17.97703	00 42 03.85	+48 52 03.4	16.9	N	C47
C/2016 N4	2017 07 19.76212	00 41 37.42	+49 37 47.1			K 367
C/2016 N4	2017 07 19.76374	00 41 37.41	+49 37 49.7			K 367
C/2016 N4	2017 07 19.76536	00 41 37.37	+49 37 52.0	14.7	T	K 367
C/2016 N4	2017 07 20.19354	00 41 30.06	+49 48 51.8	16.4	N	J22
C/2016 N4	2017 07 20.19672	00 41 30.01	+49 48 57.2	16.4	N	J22
C/2016 N4	2017 07 20.19990	00 41 29.97	+49 49 01.7	16.4	N	J22
C/2016 N4	2017 07 20.95954	00 41 16.26	+50 08 31.5	16.0	N	K C23
C/2016 N4	2017 07 20.96179	00 41 16.14	+50 08 34.7	16.3	N	K C23
C/2016 N4	2017 07 20.96404	00 41 16.09	+50 08 38.5	16.2	N	K C23
C/2016 N4	2017 07 20.96628	00 41 15.99	+50 08 41.1	16.3	N	K C23
C/2016 N4	2017 07 21.02525	00 41 14.89	+50 10 13.1	17.3	N	K02
C/2016 N4	2017 07 21.02988	00 41 14.80	+50 10 20.0	16.8	N	K02
C/2016 N4	2017 07 22.04089	00 40 54.25	+50 36 22.8	16.3	N	212
C/2016 N4	2017 07 22.04233	00 40 54.22	+50 36 25.1	16.4	N	212
C/2016 N4	2017 07 22.04376	00 40 54.20	+50 36 27.3	16.3	N	212
C/2016 N4	2017 07 22.04521	00 40 54.17	+50 36 29.3	16.4	N	212
C/2016 N4	2017 07 22.96318	00 40 33.52	+51 00 08.3	16.2	N	I72
C/2016 N4	2017 07 22.98882	00 40 32.90	+51 00 49.2	16.2	N	I72
C/2016 N4	2017 07 22.99042	00 40 32.79	+51 00 50.6	16.2	N	I72
C/2016 N4	2017 07 25.99829	00 39 10.80	+52 18 35.5	16.4	N	K02
C/2016 N4	2017 07 26.00292	00 39 10.66	+52 18 42.2	16.9	N	K02
C/2016 N4	2017 07 26.00755	00 39 10.49	+52 18 49.2	16.5	N	K02
C/2016 N4	2017 07 27.25864	00 38 29.37	+52 51 10.6	19	T	C51
Geocentric position (km)	+ 984.3546	+ 2866.2348	+ 6143.8468			
C/2016 N4	2017 07 27.38954	00 38 24.96	+52 54 35.3			C51
Geocentric position (km)	+ 963.2512	+ 2849.4653	+ 6154.9523			
C/2016 N4	2017 07 27.40137	00 38 24.59	+52 54 55.8	16.5	N	H47
C/2016 N4	2017 07 27.40409	00 38 24.54	+52 55 00.1	16.6	N	H47
C/2016 N4	2017 07 27.40660	00 38 24.47	+52 55 03.9	16.6	N	H47
C/2016 N4	2017 07 27.40971	00 38 24.31	+52 55 08.7	16.3	N	H47
C/2016 N4	2017 07 27.52045	00 38 20.38	+52 57 58.0			C51
Geocentric position (km)	+ 942.2066	+ 2832.5608	+ 6165.9727			
C/2016 N4	2017 07 27.65148	00 38 16.00	+53 01 22.9			C51
Geocentric position (km)	+ 967.2752	+ 2876.2552	+ 6141.8492			
C/2016 N4	2017 07 27.78238	00 38 11.06	+53 04 44.6			C51
Geocentric position (km)	+ 946.2669	+ 2859.3357	+ 6152.9828			
C/2016 N4	2017 07 27.91328	00 38 06.33	+53 08 09.6			C51
Geocentric position (km)	+ 925.5751	+ 2842.6231	+ 6163.8369			
C/2016 N4	2017 07 27.91508	00 38 06.64	+53 08 11.7	16.2	N	I72
C/2016 N4	2017 07 27.91587	00 38 06.69	+53 08 12.9	16.0	N	I72
C/2016 N4	2017 07 27.97873	00 38 03.99	+53 09 49.9			C51
Geocentric position (km)	+ 915.1205	+ 2834.0413	+ 6169.3322			
C/2016 N4	2017 07 28.00451	00 38 03.53	+53 10 29.8	16.1	N	I72
C/2016 N4	2017 07 28.06882	00 38 01.07	+53 12 12.1	16.0	N	C23
C/2016 N4	2017 07 28.07315	00 38 00.92	+53 12 16.9	15.6	N	C23
C/2016 N4	2017 07 28.07603	00 38 00.74	+53 12 22.5	16.2	N	C23
C/2016 N4	2017 07 28.16045	00 37 57.58	+53 14 35.1	16.3	N	9 G40
C/2016 N4	2017 07 28.16139	00 37 57.55	+53 14 36.8	16.4	N	9 G40
C/2016 N4	2017 07 28.16325	00 37 57.49	+53 14 39.6	16.4	N	9 G40
C/2016 N4	2017 07 28.16418	00 37 57.46	+53 14 41.1	16.4	N	9 G40
C/2016 N4	2017 07 28.24054	00 37 54.44	+53 16 36.9			C51
Geocentric position (km)	+ 873.5774	+ 2799.5471	+ 6191.0090			

C/2016 N4	2017 07 28.24067	00 37 54.37	+53 16 36.9			C51
Geocentric position (km)	+ 919.0794	+ 2860.9526	+ 6156.3140			
C/2016 N4	2017 07 28.37157	00 37 49.52	+53 19 59.0			C51
Geocentric position (km)	+ 898.3147	+ 2843.7594	+ 6167.3075			
C/2016 N4	2017 07 30.02447	00 36 44.34	+54 02 48.8	17.8	N	C47
C/2016 N4	2017 07 30.02779	00 36 44.29	+54 02 53.6	18.0	N	C47
C/2016 N4	2017 07 30.03148	00 36 44.12	+54 02 59.5	17.6	N	C47
C/2016 N4	2017 07 30.03517	00 36 43.97	+54 03 05.2	17.0	N	C47
C/2016 N4	2017 07 30.03886	00 36 43.76	+54 03 11.2	17.2	N	C47
C/2016 N4	2017 07 30.04255	00 36 43.62	+54 03 16.6	17.0	N	C47
C/2016 N4	2017 07 30.10688	00 36 40.99	+54 04 57.6	16.4	N	J22
C/2016 N4	2017 07 30.11010	00 36 40.85	+54 05 02.5	16.4	N	J22
C/2016 N4	2017 07 30.11326	00 36 40.69	+54 05 07.3	16.4	N	J22
C/2016 N4	2017 07 30.93209	00 36 05.11	+54 26 17.1	16.2	N	C36
C/2016 N4	2017 07 30.93297	00 36 05.06	+54 26 18.2	16.3	N	C36
C/2016 N4	2017 07 30.93385	00 36 05.00	+54 26 19.6	16.2	N	C36
C/2016 N4	2017 07 30.93560	00 36 04.91	+54 26 22.4	16.2	N	C36
C/2016 N4	2017 07 30.93736	00 36 04.91	+54 26 25.2	16.3	N	C36
C/2016 N4	2017 07 30.93824	00 36 04.80	+54 26 26.3	16.1	N	C36
C/2016 N4	2017 07 30.93912	00 36 04.85	+54 26 28.0	16.1	N	C36
C/2016 N4	2017 07 30.93999	00 36 04.76	+54 26 29.2	16.2	N	C36
C/2016 N4	2017 07 30.94087	00 36 04.68	+54 26 30.5	16.5	N	C36
C/2016 N4	2017 07 30.94263	00 36 04.69	+54 26 33.8	16.3	N	C36
C/2016 N4	2017 07 30.97888	00 36 03.04	+54 27 29.0	16.5	N	K02
C/2016 N4	2017 07 30.98567	00 36 02.74	+54 27 39.4	16.4	N	K02
C/2016 N4	2017 07 30.99331	00 36 02.43	+54 27 51.2	16.5	N	K02
C/2016 N4	2017 07 31.56770	00 35 36.04	+54 42 43.7	16.5	T	T08
C/2016 N4	2017 07 31.57792	00 35 35.54	+54 42 59.5	16.6	T	T08
C/2016 N4	2017 07 31.59538	00 35 34.69	+54 43 26.8	16.5	T	T08
C/2016 N4	2017 07 31.59950	00 35 34.50	+54 43 33.1	16.6	T	T08
C/2016 N4	2017 07 31.60732	00 35 34.11	+54 43 45.2	16.5	T	T08
C/2016 N4	2017 07 31.61611	00 35 33.67	+54 43 58.8	16.6	T	T08
C/2016 N4	2017 07 31.99209	00 35 16.13	+54 53 39.1	17.2	N	I81
C/2016 N4	2017 07 31.99920	00 35 15.78	+54 53 50.1	16.7	N	I81
C/2016 N4	2017 08 01.00488	00 35 15.50	+54 53 58.9	16.1	N	I81
C/2016 N4	2017 08 01.05432	00 35 13.14	+54 55 16.3	16.1	N	970
C/2016 N4	2017 08 01.05735	00 35 12.99	+54 55 21.0	16.0	N	970
C/2016 N4	2017 08 01.15660	00 35 08.03	+54 57 56.0	16.4	N	B54
C/2016 N4	2017 08 01.15735	00 35 08.02	+54 57 57.1	16.5	N	B54
C/2016 N4	2017 08 01.15809	00 35 08.00	+54 57 58.2	16.6	N	B54
C/2016 N4	2017 08 01.18772	00 35 06.79	+54 58 42.6	15.7	N	KW33
C/2016 N4	2017 08 01.19985	00 35 06.17	+54 59 01.6	15.5	N	KW33
C/2016 N4	2017 08 01.21188	00 35 05.58	+54 59 20.4	15.6	N	KW33
C/2016 N4	2017 08 01.79138	00 34 36.67	+55 14 18.8	16.6	N	K 367
C/2016 N4	2017 08 01.79300	00 34 36.61	+55 14 21.0	16.5	N	K 367
C/2016 N4	2017 08 01.79421	00 34 36.52	+55 14 22.7	16.6	N	K 367
C/2016 N4	2017 08 02.57571	00 33 56.23	+55 34 32.1	16.8	T	T05
C/2016 N4	2017 08 02.58526	00 33 55.70	+55 34 46.5	17.0	T	T05
C/2016 N4	2017 08 02.59578	00 33 55.12	+55 35 02.9	16.9	T	T05
C/2016 N4	2017 08 04.87561	00 31 46.09	+56 33 33.5	16.6	N	K14
C/2016 N4	2017 08 04.88763	00 31 45.04	+56 33 52.4	16.2	N	K14
C/2016 N4	2017 08 04.89557	00 31 44.74	+56 34 04.0	16.2	N	K14
C/2016 N4	2017 08 04.89828	00 31 44.51	+56 34 09.2	16.4	N	K L04
C/2016 N4	2017 08 04.90291	00 31 44.28	+56 34 15.3	15.9	N	K14
C/2016 N4	2017 08 04.90597	00 31 44.00	+56 34 20.9	16.4	N	K L04
C/2016 N4	2017 08 04.91419	00 31 43.49	+56 34 34.0	16.4	N	K L04
C/2016 N4	2017 08 05.99130	00 30 35.87	+57 02 05.6	15.8	N	C23
C/2016 N4	2017 08 05.99419	00 30 35.38	+57 02 10.1	15.9	N	C23
C/2016 N4	2017 08 06.01649	00 30 34.19	+57 02 44.2	16.0	N	I81
C/2016 N4	2017 08 06.02011	00 30 34.00	+57 02 49.6	16.0	N	I81
C/2016 N4	2017 08 06.02303	00 30 33.90	+57 02 54.0	15.8	N	I81
C/2016 N4	2017 08 06.52486	00 30 00.77	+57 15 44.4	16.3	N	T04
C/2016 N4	2017 08 06.52828	00 30 00.51	+57 15 49.4	16.5	N	T04
C/2016 N4	2017 08 06.53242	00 30 00.22	+57 15 55.7	16.4	N	T04
C/2016 N4	2017 08 06.86494	00 29 37.93	+57 24 20.9	16.1	N	C86
C/2016 N4	2017 08 06.86726	00 29 37.80	+57 24 23.5	16.0	N	C86
C/2016 N4	2017 08 06.87184	00 29 37.64	+57 24 32.0	16.5	N	C86
C/2016 N4	2017 08 07.54302	00 28 50.79	+57 41 37.2	16.6	T	T05
C/2016 N4	2017 08 07.55050	00 28 50.34	+57 41 48.5	17.0	T	T05
C/2016 N4	2017 08 07.55802	00 28 49.83	+57 42 00.0	16.8	T	T05
C/2016 N4	2017 08 07.56551	00 28 49.27	+57 42 11.7	16.8	T	T05
C/2016 N4	2017 08 09.43503	00 26 30.61	+58 29 25.4	16.5	N	T03
C/2016 N4	2017 08 09.43836	00 26 30.37	+58 29 30.7	16.5	N	T03
C/2016 N4	2017 08 09.44085	00 26 30.17	+58 29 34.3	16.5	N	T03
C/2016 N4	2017 08 09.56258	00 26 20.38	+58 32 37.9	16.3	T	T08
C/2016 N4	2017 08 09.57189	00 26 19.63	+58 32 52.1	16.4	T	T08
C/2016 N4	2017 08 09.58075	00 26 18.92	+58 33 06.0	16.6	T	T08
C/2016 N4	2017 08 09.59056	00 26 18.07	+58 33 20.7	16.6	T	T08
C/2016 N4	2017 08 11.01660	00 24 21.95	+59 09 01.8	16.6	N	K02
C/2016 N4	2017 08 11.02279	00 24 21.45	+59 09 10.9	16.7	N	K02
C/2016 N4	2017 08 11.56877	00 23 34.42	+59 22 48.3	16.9	T	T05
C/2016 N4	2017 08 11.57744	00 23 33.62	+59 23 01.0	16.6	T	T05
C/2016 N4	2017 08 11.58610	00 23 32.88	+59 23 13.6	16.6	T	T05
C/2016 N4	2017 08 12.02980	00 22 54.05	+59 34 13.5	16.0	N	Z50
C/2016 N4	2017 08 12.03227	00 22 53.82	+59 34 17.3	15.9	N	Z50
C/2016 N4	2017 08 12.03595	00 22 53.49	+59 34 22.6	15.9	N	Z50
C/2016 N4	2017 08 13.12137	00 21 13.97	+60 01 11.7	16.4	N	K A77
C/2016 N4	2017 08 13.12574	00 21 13.51	+60 01 18.5	16.4	N	K A77
C/2016 N4	2017 08 13.13005	00 21 13.13	+60 01 24.6	16.4	N	K A77
C/2016 N4	2017 08 13.56123	00 20 32.24	+60 11 59.9	16.5	T	T08
C/2016 N4	2017 08 13.57009	00 20 31.35	+60 12 12.9	16.3	T	T08
C/2016 N4	2017 08 13.58770	00 20 29.62	+60 12 38.4	16.5	T	T08
C/2016 N4	2017 08 13.97146	00 19 52.72	+60 22 01.1	16.3	N	K14
C/2016 N4	2017 08 13.98032	00 19 51.78	+60 22 14.0	15.8	N	K14
C/2016 N4	2017 08 13.98755	00 19 51.20	+60 22 24.8	16.2	N	K14
C/2016 N4	2017 08 13.99478	00 19 50.46	+60 22 35.5	16.4	N	K14
C/2016 N4	2017 08 14.00197	00 19 49.80	+60 22 46.8	16.1	N	K14
C/2016 N4	2017 08 14.00638	00 19 49.24	+60 22 52.2	17.1	N	K K02
C/2016 N4	2017 08 14.01411	00 19 48.41	+60 23 03.3	16.8	N	K K02
C/2016 N4	2017 08 14.84233	00 18 25.72	+60 43 12.8	16.2	N	C86
C/2016 N4	2017 08 14.84818	00 18 25.15	+60 43 20.7	16.2	N	C86
C/2016 N4	2017 08 14.90722	00 18 19.14	+60 44 47.6	16.1	N	C23
C/2016 N4	2017 08 14.91172	00 18 18.73	+60 44 53.6	15.7	N	C23
C/2016 N4	2017 08 14.91546	00 18 18.30	+60 44 59.7	15.9	N	C23
C/2016 N4	2017 08 15.54623	00 17 12.46	+61 00 16.9	16.6	T	T05
C/2016 N4	2017 08 15.55638	00 17 11.39	+61 00 31.4	16.5	T	T05

C/2016 N4	2017 08 15.56631	00 17 10.29	+61 00 45.8	16.5	T		T05
C/2016 N4	2017 08 16.14024	00 16 08.98	+61 14 34.0	16.4	N		Z21
C/2016 N4	2017 08 16.14361	00 16 08.65	+61 14 38.8	16.5	N		Z21
C/2016 N4	2017 08 16.14777	00 16 08.15	+61 14 45.0	16.5	N		Z21
C/2016 N4	2017 08 17.05272	00 14 28.02	+61 36 20.9	18.3	N	K	C47
C/2016 N4	2017 08 17.05457	00 14 27.86	+61 36 23.4	16.1	N	K	C47
C/2016 N4	2017 08 17.05715	00 14 27.40	+61 36 28.6	17.1	N	K	C47
C/2016 N4	2017 08 17.05936	00 14 27.29	+61 36 30.0	16.7	N	K	C47
C/2016 N4	2017 08 17.54598	00 13 31.60	+61 48 03.0	16.3	T		T08
C/2016 N4	2017 08 17.55476	00 13 30.62	+61 48 15.6	16.3	T		T08
C/2016 N4	2017 08 17.56357	00 13 29.59	+61 48 28.1	16.4	T		T08
C/2016 N4	2017 08 17.98909	00 12 40.22	+61 58 29.8	16.2	N		Z50
C/2016 N4	2017 08 18.00014	00 12 38.88	+61 58 45.4	16.3	N		Z50
C/2016 N4	2017 08 18.00135	00 12 38.73	+61 58 47.0	16.3	N		Z50
C/2016 N4	2017 08 19.97223	00 08 36.00	+62 44 38.1	16.3	N		J22
C/2016 N4	2017 08 19.97699	00 08 35.58	+62 44 42.1	16.3	N		J22
C/2016 N4	2017 08 19.97859	00 08 35.28	+62 44 45.5	16.3	N		J22
C/2016 N4	2017 08 20.93109	00 06 30.20	+63 06 31.3	17.0	N	K	A71
C/2016 N4	2017 08 20.93772	00 06 29.26	+63 06 41.1	16.8	N	K	A71
C/2016 N4	2017 08 20.94435	00 06 28.34	+63 06 49.5	16.9	N	K	A71
C/2016 N4	2017 08 23.50729	00 00 26.46	+64 03 56.7	16.7	T		T05
C/2016 N4	2017 08 23.50827	00 00 26.33	+64 03 57.7	17.0	T		T05
C/2016 N4	2017 08 23.52863	00 00 23.09	+64 04 24.4	17.1	T		T05
C/2016 N4	2017 08 23.98873	23 59 14.26	+64 14 22.7	16.4	N		B75
C/2016 N4	2017 08 23.98980	23 59 14.13	+64 14 24.3	15.9	N		B75
C/2016 N4	2017 08 23.99087	23 59 14.02	+64 14 25.4	16.3	N		B75
C/2016 N4	2017 08 23.99459	23 59 13.45	+64 14 29.9	16.9	N		C47
C/2016 N4	2017 08 23.99680	23 59 12.97	+64 14 33.1	17.1	N		C47
C/2016 N4	2017 08 23.99975	23 59 12.51	+64 14 37.3	17.1	N		C47
C/2016 N4	2017 08 24.00270	23 59 12.05	+64 14 40.8	17.1	N		C47
C/2016 N4	2017 08 24.00565	23 59 11.63	+64 14 45.4	16.9	N		C47
C/2016 N4	2017 08 25.91735	23 54 11.09	+64 55 24.4	16.1	N		Z50
C/2016 N4	2017 08 25.91991	23 54 10.66	+64 55 27.6	16.1	N		Z50
C/2016 N4	2017 08 25.92896	23 54 09.15	+64 55 38.9	16.1	N		Z50
C/2016 N4	2017 08 25.99439	23 53 58.34	+64 57 01.0	16.1	N	K	970
C/2016 N4	2017 08 26.00166	23 53 57.15	+64 57 10.0	16.0	N	K	970
C/2016 N4	2017 08 26.57173	23 52 22.98	+65 08 59.4			K	367
C/2016 N4	2017 08 26.57335	23 52 22.67	+65 09 01.7			K	367
C/2016 N4	2017 08 26.57497	23 52 22.33	+65 09 03.5	15.0	T	K	367
C/2016 N4	2017 08 27.90906	23 48 33.77	+65 36 09.5	15.9	N		C23
C/2016 N4	2017 08 27.91130	23 48 33.41	+65 36 12.0	15.9	N		C23
C/2016 N4	2017 08 27.91355	23 48 32.90	+65 36 14.8	15.5	N		C23
C/2016 N4	2017 08 27.98117	23 48 21.20	+65 37 37.1	16.3	N		J22
C/2016 N4	2017 08 27.98433	23 48 20.60	+65 37 41.0	16.3	N		J22
C/2016 N4	2017 08 27.98750	23 48 20.04	+65 37 44.9	16.3	N		J22
C/2016 N4	2017 08 28.95395	23 45 27.15	+65 56 50.1	12.7	N	K	I81
C/2016 N4	2017 08 28.96074	23 45 25.85	+65 56 58.0	13.3	N	K	I81
C/2016 N4	2017 08 28.96754	23 45 24.36	+65 57 05.8	16.2	N	K	I81
C/2016 N4	2017 08 29.00690	23 45 17.00	+65 57 51.8	15.8	N		212
C/2016 N4	2017 08 29.01071	23 45 16.52	+65 57 58.0	16.1	N		212
C/2016 N4	2017 08 29.01453	23 45 15.83	+65 58 02.4	16.2	N		212
C/2016 N4	2017 08 30.04957	23 42 03.36	+66 17 58.8	16.4	N	K	A77
C/2016 N4	2017 08 30.05605	23 42 02.10	+66 18 06.5	16.4	N	K	A77
C/2016 N4	2017 08 30.06253	23 42 00.88	+66 18 13.8	16.4	N	K	A77
C/2016 N4	2017 08 30.62628	23 40 13.46	+66 28 51.4				900
C/2016 N4	2017 08 30.63342	23 40 12.05	+66 28 59.6	15.6	T		900
C/2016 N4	2017 08 30.79605	23 39 41.05	+66 32 00.0	16.9	N	K	B34
C/2016 N4	2017 08 30.85901	23 39 28.62	+66 33 11.1	17.1	N	K	B34
C/2016 N4	2017 08 30.92288	23 39 16.18	+66 34 23.3	16.9	N	K	B34
C/2016 N4	2017 08 30.94404	23 39 11.94	+66 34 46.1	17.7	N		C47
C/2016 N4	2017 08 30.94700	23 39 11.33	+66 34 50.1	17.7	N		C47
C/2016 N4	2017 08 30.95032	23 39 10.70	+66 34 53.5	16.9	N		C47
C/2016 N4	2017 08 30.95364	23 39 10.08	+66 34 57.4	17.5	N		C47
C/2016 N4	2017 08 30.95696	23 39 09.42	+66 35 00.8	17.6	N		C47
C/2016 N4	2017 08 30.96028	23 39 08.63	+66 35 03.8	18.0	N		C47
C/2016 N4	2017 08 31.52047	23 37 18.45	+66 45 23.6	15.8	T		T05
C/2016 N4	2017 08 31.53066	23 37 16.38	+66 45 35.0	15.9	T		T05
C/2016 N4	2017 08 31.53271	23 37 15.97	+66 45 36.9	15.8	T		T05
C/2016 N4	2017 08 31.54745	23 37 13.01	+66 45 53.0	15.9	T		T05
C/2016 N4	2017 09 02.49042	23 30 35.53	+67 20 18.2	15.9	T		T08
C/2016 N4	2017 09 02.49093	23 30 35.40	+67 20 18.7	15.8	T		T08
C/2016 N4	2017 09 02.50045	23 30 33.35	+67 20 28.2	15.8	T		T08
C/2016 N4	2017 09 02.50096	23 30 33.22	+67 20 28.8	15.9	T		T08
C/2016 N4	2017 09 02.50221	23 30 32.99	+67 20 30.4	15.9	T		T08
C/2016 N4	2017 09 02.50404	23 30 32.58	+67 20 31.9	15.9	T		T08
C/2016 N4	2017 09 04.82635	23 22 06.63	+67 58 47.9	16.3	N		C86
C/2016 N4	2017 09 04.82836	23 22 06.21	+67 58 50.1	16.3	N		C86
C/2016 N4	2017 09 04.83035	23 22 05.71	+67 58 51.8	16.3	N		C86
C/2016 N4	2017 09 04.89262	23 21 51.53	+67 59 52.0	16.1	N		Z55
C/2016 N4	2017 09 04.89359	23 21 51.31	+67 59 53.1	16.1	N		Z55
C/2016 N4	2017 09 04.89528	23 21 51.05	+67 59 54.2	16.1	N		Z55
C/2016 N4	2017 09 04.89591	23 21 50.88	+67 59 54.0	16.1	N		Z55
C/2016 N4	2017 09 04.89657	23 21 50.68	+67 59 55.4	16.2	N		Z55
C/2016 N4	2017 09 05.82212	23 18 19.35	+68 14 13.2	16.3	N		C86
C/2016 N4	2017 09 05.82412	23 18 18.84	+68 14 14.4	16.5	N		C86
C/2016 N4	2017 09 05.82612	23 18 18.31	+68 14 15.1	16.4	N		C86
C/2016 N4	2017 09 08.07329	23 09 23.61	+68 46 45.2	15.8	N	9	G40
C/2016 N4	2017 09 08.07447	23 09 23.31	+68 46 46.0	15.7	N	9	G40
C/2016 N4	2017 09 08.07804	23 09 22.44	+68 46 48.9	15.6	N	9	G40
C/2016 N4	2017 09 08.08017	23 09 21.93	+68 46 50.9	15.8	N	9	G40
C/2016 N4	2017 09 08.08499	23 09 20.67	+68 46 54.8	15.8	N	9	G40
C/2016 N4	2017 09 08.44783	23 07 51.85	+68 51 49.9	15.9	T		T05
C/2016 N4	2017 09 08.45650	23 07 49.65	+68 51 57.1	16.6	T		T05
C/2016 N4	2017 09 08.45696	23 07 49.55	+68 51 57.1	15.8	T		T05
C/2016 N4	2017 09 08.47474	23 07 45.13	+68 52 11.5	15.8	T		T05
C/2016 N4	2017 09 09.91089	23 01 46.21	+69 10 44.6	15.5	N		970
C/2016 N4	2017 09 09.91696	23 01 44.63	+69 10 48.6	15.7	N		970
C/2016 N4	2017 09 09.95603	23 01 34.57	+69 11 18.5	16.3	N		J01
C/2016 N4	2017 09 09.97785	23 01 28.97	+69 11 35.1	16.3	N		J01
C/2016 N4	2017 09 09.98144	23 01 28.08	+69 11 37.6	16.3	N		J01
C/2016 N4	2017 09 09.99089	23 01 25.60	+69 11 43.6	16.6	N		K02
C/2016 N4	2017 09 09.99674	23 01 24.08	+69 11 47.6	16.1	N		K02
C/2016 N4	2017 09 10.00258	23 01 22.59	+69 11 52.9	16.6	N		K02
C/2016 N4	2017 09 10.07900	23 01 02.96	+69 12 48.6	15.8	N		C23
C/2016 N4	2017 09 10.08332	23 01 01.87	+69 12 51.9	15.7	N		C23
C/2016 N4	2017 09 10.08765	23 01 00.75	+69 12 55.1	15.7	N		C23

C/2016 N4	2017 09 10.82270	22 57 52.75	+69 21 45.4	16.4	N	C86
C/2016 N4	2017 09 10.82468	22 57 52.33	+69 21 46.4	16.4	N	C86
C/2016 N4	2017 09 10.82666	22 57 51.78	+69 21 48.4	16.4	N	C86
C/2016 N4	2017 09 10.88021	22 57 37.81	+69 22 26.6	16.1	N	K14
C/2016 N4	2017 09 10.88846	22 57 35.67	+69 22 32.7	16.6	N	K14
C/2016 N4	2017 09 11.81630	22 53 33.80	+69 33 06.2	16.3	N	K14
C/2016 N4	2017 09 11.82225	22 53 32.19	+69 33 10.2	16.2	N	K14
C/2016 N4	2017 09 11.82795	22 53 30.68	+69 33 14.2	16.3	N	K14
C/2016 N4	2017 09 11.83363	22 53 29.22	+69 33 18.0	16.2	N	K14
C/2016 N4	2017 09 11.83931	22 53 27.73	+69 33 21.9	16.3	N	K14
C/2016 N4	2017 09 12.08369	22 52 22.71	+69 36 02.1	16.7	N	K02
C/2016 N4	2017 09 12.08986	22 52 20.91	+69 36 05.9	16.2	N	K02
C/2016 N4	2017 09 12.09604	22 52 19.39	+69 36 10.2	16.7	N	K02
C/2016 N4	2017 09 12.95253	22 48 31.94	+69 45 12.3	16.3	N	J01
C/2016 N4	2017 09 12.97229	22 48 26.59	+69 45 24.2	16.3	N	J01
C/2016 N4	2017 09 12.97448	22 48 25.95	+69 45 26.1	16.3	N	J01
C/2016 N4	2017 09 13.49644	22 46 05.85	+69 50 38.0			K D81
C/2016 N4	2017 09 13.49948	22 46 05.03	+69 50 40.4			K D81
C/2016 N4	2017 09 13.50292	22 46 04.05	+69 50 42.1			K D81
C/2016 N4	2017 09 13.50635	22 46 03.41	+69 50 44.7	14.8	T	K D81
C/2016 N4	2017 09 13.89396	22 44 18.09	+69 54 29.0	16.4	N	K C77
C/2016 N4	2017 09 13.90071	22 44 16.33	+69 54 32.8	16.4	N	K C77
C/2016 N4	2017 09 13.90832	22 44 14.18	+69 54 37.8	16.4	N	K C77
C/2016 N4	2017 09 14.01493	22 43 45.16	+69 55 38.0	16.3	N	J22
C/2016 N4	2017 09 14.01822	22 43 44.24	+69 55 40.6	16.3	N	J22
C/2016 N4	2017 09 14.02146	22 43 43.48	+69 55 41.6	16.3	N	J22
C/2016 N4	2017 09 14.40809	22 41 58.04	+69 59 16.7	15.8	T	T08
C/2016 N4	2017 09 14.42530	22 41 53.26	+69 59 26.2	15.8	T	T08
C/2016 N4	2017 09 14.43456	22 41 50.73	+69 59 31.2	15.8	T	T08
C/2016 N4	2017 09 14.43502	22 41 50.58	+69 59 31.3	15.9	T	T08
C/2016 N4	2017 09 16.02466	22 34 32.06	+70 13 02.0	16.1	N	J53
C/2016 N4	2017 09 16.02949	22 34 30.70	+70 13 04.1	16.1	N	J53
C/2016 N4	2017 09 16.03722	22 34 28.52	+70 13 07.5	16.0	N	J53
C/2016 N4	2017 09 16.72943	22 31 16.06	+70 18 22.7			L51
C/2016 N4	2017 09 16.73380	22 31 14.76	+70 18 24.2	15.9	N	L51
C/2016 N4	2017 09 16.73597	22 31 14.18	+70 18 25.2	15.0	T	L51
C/2016 N4	2017 09 16.74034	22 31 13.08	+70 18 27.4			L51
C/2016 N4	2017 09 18.93746	22 20 53.05	+70 32 40.0	15.6	N	I81
C/2016 N4	2017 09 18.94454	22 20 51.06	+70 32 42.9	15.4	N	I81
C/2016 N4	2017 09 18.95192	22 20 48.96	+70 32 45.7	14.4	N	I81
C/2016 N4	2017 09 19.97721	22 15 57.27	+70 38 08.8	16.1	N	J53
C/2016 N4	2017 09 19.98108	22 15 56.17	+70 38 09.7	16.3	N	J53
C/2016 N4	2017 09 19.98397	22 15 55.37	+70 38 10.7	16.3	N	J53
C/2016 N4	2017 09 20.82844	22 11 55.10	+70 41 57.0	16.2	N	C23
C/2016 N4	2017 09 20.83817	22 11 52.41	+70 41 59.4	15.9	N	C23
C/2016 N4	2017 09 20.84641	22 11 50.05	+70 42 01.5	16.0	N	C23
C/2016 N4	2017 09 20.84878	22 11 49.36	+70 42 02.2	16.4	N	C86
C/2016 N4	2017 09 20.85275	22 11 48.30	+70 42 03.1	16.5	N	C86
C/2016 N4	2017 09 20.85674	22 11 47.22	+70 42 03.8	16.4	N	C86
C/2016 N4	2017 09 21.96268	22 06 31.68	+70 46 11.5	15.4	N	I81
C/2016 N4	2017 09 21.96694	22 06 30.44	+70 46 12.2	15.5	N	I81
C/2016 N4	2017 09 21.97120	22 06 29.22	+70 46 13.1	15.5	N	I81
C/2016 N4	2017 09 21.99772	22 06 21.90	+70 46 19.5	16.3	N	J22
C/2016 N4	2017 09 22.00096	22 06 20.71	+70 46 20.2	16.3	N	J22
C/2016 N4	2017 09 22.00420	22 06 19.95	+70 46 21.3	16.3	N	J22
C/2016 N4	2017 09 22.90094	22 02 04.90	+70 48 57.6	16.6	N	K87
C/2016 N4	2017 09 22.90740	22 02 02.99	+70 48 58.5	17.0	N	K87
C/2016 N4	2017 09 22.91464	22 02 00.88	+70 48 59.8	17.0	N	K87
C/2016 N4	2017 09 22.92190	22 01 58.88	+70 49 01.0	16.6	N	K87
C/2016 N4	2017 09 22.92419	22 01 58.29	+70 49 02.3	16.3	N	J01
C/2016 N4	2017 09 22.93316	22 01 55.68	+70 49 03.8	16.3	N	J01
C/2016 N4	2017 09 22.94815	22 01 51.40	+70 49 06.0	16.3	N	J01
C/2016 N4	2017 09 23.87039	21 57 30.11	+70 51 07.8	17.0	N	B96
C/2016 N4	2017 09 23.87203	21 57 29.68	+70 51 08.3	16.4	N	B96
C/2016 N4	2017 09 23.87366	21 57 29.07	+70 51 08.8	16.5	N	B96
C/2016 N4	2017 09 23.87693	21 57 28.19	+70 51 08.9	16.5	N	B96
C/2016 N4	2017 09 23.87856	21 57 27.76	+70 51 09.1	16.6	N	B96
C/2016 N4	2017 09 25.94734	21 47 46.29	+70 53 27.5	15.3	N	I81
C/2016 N4	2017 09 25.94805	21 47 46.11	+70 53 27.4	15.4	N	I81
C/2016 N4	2017 09 25.94875	21 47 45.91	+70 53 27.5	15.2	N	I81
C/2016 N4	2017 09 25.94946	21 47 45.69	+70 53 27.5	15.3	N	I81
C/2016 N4	2017 09 25.95016	21 47 45.51	+70 53 27.5	15.3	N	I81
C/2016 N4	2017 09 25.95086	21 47 45.33	+70 53 27.4	15.3	N	I81
C/2016 N4	2017 09 25.95157	21 47 45.15	+70 53 27.3	15.2	N	I81
C/2016 N4	2017 09 25.95227	21 47 44.94	+70 53 27.5	15.2	N	I81
C/2016 N4	2017 09 25.95297	21 47 44.77	+70 53 27.5	15.3	N	I81
C/2016 N4	2017 09 25.95368	21 47 44.52	+70 53 27.6	15.2	N	I81

C/2016 N6 (PANSTARRS)

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C/2016 N6	2017 07 06.39192	16 05 01.372	+61 25 46.80	17.5	T	F51
C/2016 N6	2017 07 07.36914	16 02 54.07	+61 22 14.5	16.4	T	T08
C/2016 N6	2017 07 07.37858	16 02 52.89	+61 22 12.2	16.4	T	T08
C/2016 N6	2017 07 07.38056	16 02 52.61	+61 22 11.6	16.4	T	T08
C/2016 N6	2017 07 07.39699	16 02 50.43	+61 22 08.1	16.4	T	T08
C/2016 N6	2017 07 08.55334	16 00 21.84	+61 17 33.9	15.8	T	349
C/2016 N6	2017 07 08.56422	16 00 20.47	+61 17 31.0			349
C/2016 N6	2017 07 08.57514	16 00 19.07	+61 17 28.6			349
C/2016 N6	2017 07 08.91163	15 59 36.33	+61 16 04.1	16.4	N	B96
C/2016 N6	2017 07 08.91654	15 59 35.70	+61 16 02.8	16.4	N	B96
C/2016 N6	2017 07 08.92144	15 59 35.10	+61 16 01.8	16.4	N	B96
C/2016 N6	2017 07 11.39997	15 54 25.92	+61 04 44.1	16.5	T	T08
C/2016 N6	2017 07 11.40442	15 54 25.35	+61 04 43.0	16.5	T	T08
C/2016 N6	2017 07 11.40788	15 54 24.94	+61 04 42.2	16.4	T	T08
C/2016 N6	2017 07 11.41587	15 54 23.96	+61 04 39.3	16.4	T	T08
C/2016 N6	2017 07 12.88804	15 51 25.92	+60 57 08.9	16.3	N	107
C/2016 N6	2017 07 12.89810	15 51 24.72	+60 57 06.0	16.1	N	107
C/2016 N6	2017 07 12.89983	15 51 24.56	+60 57 05.1	17.0	N	B96
C/2016 N6	2017 07 12.90147	15 51 24.39	+60 57 04.5	17.3	N	B96
C/2016 N6	2017 07 12.90473	15 51 23.97	+60 57 03.4	17.0	N	B96
C/2016 N6	2017 07 12.90638	15 51 23.79	+60 57 03.1	17.0	N	B96
C/2016 N6	2017 07 12.90801	15 51 23.53	+60 57 02.8	17.2	N	B96
C/2016 N6	2017 07 12.90866	15 51 23.36	+60 57 02.5	16.5	N	C86
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C/2016 N6	2017 07 12.91706	15 51 22.53	+60 56 59.4	16.5	N	C86
C/2016 N6	2017 07 12.91730	15 51 22.35	+60 57 00.0	15.7	N	970
C/2016 N6	2017 07 12.92467	15 51 21.46	+60 56 57.8	15.9	N	970
C/2016 N6	2017 07 12.92737	15 51 21.12	+60 56 56.7	15.9	N	970
C/2016 N6	2017 07 12.96315	15 51 16.87	+60 56 45.4	16.1	N	K02
C/2016 N6	2017 07 12.96931	15 51 16.14	+60 56 43.7	16.4	N	K02
C/2016 N6	2017 07 12.97549	15 51 15.41	+60 56 42.0	15.8	N	K02
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C/2016 N6	2017 07 13.02302	15 51 09.68	+60 56 26.5	16.4	N	J22
C/2016 N6	2017 07 13.04044	15 51 07.63	+60 56 20.5	16.1	N	C23
C/2016 N6	2017 07 13.04343	15 51 07.22	+60 56 19.5	16.0	N	C23
C/2016 N6	2017 07 13.04643	15 51 06.88	+60 56 18.4	15.9	N	C23
C/2016 N6	2017 07 13.87818	15 49 28.58	+60 51 47.3	16.4	N	Z55
C/2016 N6	2017 07 13.88012	15 49 28.32	+60 51 47.9	16.4	N	Z55
C/2016 N6	2017 07 13.88094	15 49 28.27	+60 51 48.2	16.4	N	Z55
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C/2016 N6	2017 07 16.91250	15 43 40.90	+60 33 56.3	16.2	N	C86
C/2016 N6	2017 07 16.91994	15 43 40.16	+60 33 52.5	16.2	N	C86
C/2016 N6	2017 07 16.92367	15 43 39.72	+60 33 51.9	16.3	N	C86
C/2016 N6	2017 07 17.86888	15 41 55.28	+60 27 52.2	17.6	N	C47
C/2016 N6	2017 07 17.87257	15 41 54.97	+60 27 49.0	17.4	N	C47
C/2016 N6	2017 07 17.87625	15 41 54.56	+60 27 47.9	16.9	N	C47
C/2016 N6	2017 07 17.87994	15 41 54.12	+60 27 46.2	16.8	N	C47
C/2016 N6	2017 07 17.88363	15 41 53.76	+60 27 44.2	17.5	N	C47
C/2016 N6	2017 07 17.88769	15 41 53.22	+60 27 43.1	17.3	N	C47
C/2016 N6	2017 07 17.89175	15 41 52.80	+60 27 42.1	17.3	N	C47
C/2016 N6	2017 07 19.03342	15 39 49.41	+60 20 10.3	15.6	N	I81
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C/2016 N6	2017 07 19.03994	15 39 48.75	+60 20 07.5	15.5	N	I81
C/2016 N6	2017 07 19.33984	15 39 16.80	+60 18 07.3	16.2	T	T08
C/2016 N6	2017 07 19.34763	15 39 15.94	+60 18 04.4	16.3	T	T08
C/2016 N6	2017 07 19.35596	15 39 15.05	+60 18 00.6	16.2	T	T08
C/2016 N6	2017 07 19.35790	15 39 14.84	+60 18 00.4	16.3	T	T08
C/2016 N6	2017 07 19.36032	15 39 14.57	+60 17 59.0	16.3	T	T08
C/2016 N6	2017 07 19.36178	15 39 14.44	+60 17 58.5	16.2	T	T08
C/2016 N6	2017 07 19.37311	15 39 13.20	+60 17 53.8	16.3	T	T08
C/2016 N6	2017 07 20.90045	15 36 33.73	+60 07 17.8	15.7	N	C23
C/2016 N6	2017 07 20.90344	15 36 33.40	+60 07 16.2	16.0	N	C23
C/2016 N6	2017 07 20.90644	15 36 33.12	+60 07 15.2	15.7	N	C23
C/2016 N6	2017 07 20.96118	15 36 27.44	+60 06 51.9	16.1	N	Z55
C/2016 N6	2017 07 20.96244	15 36 27.36	+60 06 51.2	16.1	N	Z55
C/2016 N6	2017 07 21.33906	15 35 48.81	+60 04 10.7	16.5	T	T05
C/2016 N6	2017 07 21.34102	15 35 48.62	+60 04 09.9	16.5	T	T05
C/2016 N6	2017 07 21.35579	15 35 47.12	+60 04 03.3	16.6	T	T05
C/2016 N6	2017 07 21.36314	15 35 46.38	+60 04 00.0	16.6	T	T05
C/2016 N6	2017 07 23.96122	15 31 29.45	+59 44 43.5	16.1	N	J22
C/2016 N6	2017 07 23.96507	15 31 29.17	+59 44 42.3	16.1	N	J22
C/2016 N6	2017 07 23.96896	15 31 28.93	+59 44 39.5	16.1	N	J22
C/2016 N6	2017 07 25.33108	15 29 20.22	+59 34 05.5	16.7	T	T05
C/2016 N6	2017 07 25.34039	15 29 19.36	+59 34 01.2	16.7	T	T05
C/2016 N6	2017 07 25.35769	15 29 17.76	+59 33 53.1	16.7	T	T05
C/2016 N6	2017 07 25.36256	15 29 17.30	+59 33 50.3	16.7	T	T05
C/2016 N6	2017 07 25.87811	15 28 29.90	+59 29 45.2	16.4	N	Z55
C/2016 N6	2017 07 25.87961	15 28 29.79	+59 29 44.8	16.3	N	Z55
C/2016 N6	2017 07 25.88036	15 28 29.67	+59 29 44.7	16.3	N	Z55
C/2016 N6	2017 07 25.88109	15 28 29.65	+59 29 43.6	16.2	N	Z55
C/2016 N6	2017 07 26.88311	15 26 58.90	+59 21 40.0	16.5	N	L04
C/2016 N6	2017 07 26.89178	15 26 58.05	+59 21 35.9	16.5	N	L04
C/2016 N6	2017 07 26.91073	15 26 56.42	+59 21 26.8	16.1	N	I72
C/2016 N6	2017 07 26.93532	15 26 54.31	+59 21 14.9	16.0	N	I72
C/2016 N6	2017 07 26.93686	15 26 54.01	+59 21 14.5	16.1	N	I72
C/2016 N6	2017 07 26.98891	15 26 49.47	+59 20 48.2	15.6	N	I81
C/2016 N6	2017 07 26.99317	15 26 49.09	+59 20 45.8	15.7	N	I81
C/2016 N6	2017 07 26.99601	15 26 48.81	+59 20 45.0	15.6	N	I81
C/2016 N6	2017 07 27.88663	15 25 30.43	+59 13 27.5	16.0	N	I72
C/2016 N6	2017 07 27.92988	15 25 26.62	+59 13 05.5	16.0	N	I72
C/2016 N6	2017 07 27.93010	15 25 26.57	+59 13 05.3	16.0	N	C23
C/2016 N6	2017 07 27.93515	15 25 26.15	+59 13 02.9	15.8	N	C23
C/2016 N6	2017 07 27.93889	15 25 25.80	+59 13 00.9	16.0	N	C23
C/2016 N6	2017 07 27.94179	15 25 25.55	+59 12 59.2	16.2	N	K02
C/2016 N6	2017 07 27.94645	15 25 25.11	+59 12 57.3	16.7	N	K02
C/2016 N6	2017 07 27.95419	15 25 24.48	+59 12 52.9	16.5	N	K02
C/2016 N6	2017 07 27.97574	15 25 22.59	+59 12 42.5	16.1	N	I72
C/2016 N6	2017 07 28.93363	15 24 00.42	+59 04 43.6	16.1	N	K14
C/2016 N6	2017 07 28.94786	15 23 59.24	+59 04 35.8	16.0	N	K14
C/2016 N6	2017 07 29.87424	15 22 41.75	+58 56 44.5	17.5	N	C47
C/2016 N6	2017 07 29.87793	15 22 41.40	+58 56 43.3	16.5	N	C47
C/2016 N6	2017 07 29.88162	15 22 41.11	+58 56 41.2	16.7	N	C47
C/2016 N6	2017 07 29.88531	15 22 40.75	+58 56 39.3	17.4	N	C47
C/2016 N6	2017 07 29.88900	15 22 40.50	+58 56 37.5	17.3	N	C47
C/2016 N6	2017 07 29.89269	15 22 40.20	+58 56 35.5	17.4	N	C47
C/2016 N6	2017 07 29.89639	15 22 39.83	+58 56 33.7	17.3	N	C47
C/2016 N6	2017 07 30.90215	15 21 17.97	+58 47 55.1	15.8	N	970
C/2016 N6	2017 07 30.90898	15 21 17.41	+58 47 51.8	15.7	N	970
C/2016 N6	2017 07 31.30280	15 20 45.98	+58 44 27.5	16.4	T	T08
C/2016 N6	2017 07 31.31158	15 20 45.31	+58 44 23.0	16.4	T	T08
C/2016 N6	2017 07 31.32041	15 20 44.59	+58 44 18.5	16.3	T	T08
C/2016 N6	2017 07 31.33165	15 20 43.65	+58 44 12.5	16.4	T	T08
C/2016 N6	2017 07 31.93250	15 19 56.40	+58 38 56.0	16.9	N	C47
C/2016 N6	2017 07 31.93582	15 19 56.13	+58 38 54.0	16.5	N	C47
C/2016 N6	2017 07 31.93951	15 19 55.80	+58 38 52.5	16.1	N	C47
C/2016 N6	2017 07 31.94320	15 19 55.51	+58 38 50.0	17.2	N	C47
C/2016 N6	2017 07 31.94689	15 19 55.18	+58 38 48.4	17.3	N	C47
C/2016 N6	2017 07 31.95058	15 19 54.94	+58 38 46.2	16.6	N	C47
C/2016 N6	2017 08 01.14758	15 19 39.70	+58 37 03.5	15.7	N	KW33
C/2016 N6	2017 08 01.15953	15 19 38.75	+58 36 57.0	15.8	N	KW33
C/2016 N6	2017 08 01.17157	15 19 37.74	+58 36 50.8	15.7	N	KW33

C/2016 N6	2017 08 01.26382	15 19 30.714	+58 36 02.27	17.1	T	F51
C/2016 N6	2017 08 01.27792	15 19 29.604	+58 35 54.72	17.2	T	F51
C/2016 N6	2017 08 01.29202	15 19 28.498	+58 35 47.27	17.2	T	F51
C/2016 N6	2017 08 01.30610	15 19 27.394	+58 35 39.76	17.1	T	F51
C/2016 N6	2017 08 02.30574	15 18 11.32	+58 26 48.1	16.5	T	T05
C/2016 N6	2017 08 02.31673	15 18 10.48	+58 26 42.2	16.5	T	T05
C/2016 N6	2017 08 02.32653	15 18 09.72	+58 26 36.8	16.5	T	T05
C/2016 N6	2017 08 02.33290	15 18 09.27	+58 26 33.4	16.4	T	T05
C/2016 N6	2017 08 03.87296	15 16 16.62	+58 12 41.7	16.0	N	C86
C/2016 N6	2017 08 03.87595	15 16 16.30	+58 12 40.1	16.1	N	C86
C/2016 N6	2017 08 04.29994	15 15 46.11	+58 08 49.0	16.0	T	T08
C/2016 N6	2017 08 04.30922	15 15 45.44	+58 08 43.8	16.3	T	T08
C/2016 N6	2017 08 04.31509	15 15 44.98	+58 08 40.7	16.3	T	T08
C/2016 N6	2017 08 04.32828	15 15 44.05	+58 08 33.5	16.2	T	T08
C/2016 N6	2017 08 05.86531	15 13 58.16	+57 54 25.5	16.0	N	B96
C/2016 N6	2017 08 05.86694	15 13 58.04	+57 54 24.9	16.1	N	B96
C/2016 N6	2017 08 05.86858	15 13 57.97	+57 54 23.2	16.0	N	B96
C/2016 N6	2017 08 05.87027	15 13 57.82	+57 54 22.6	16.0	N	B96
C/2016 N6	2017 08 05.87190	15 13 57.77	+57 54 21.7	16.1	N	B96
C/2016 N6	2017 08 05.87354	15 13 57.58	+57 54 21.1	16.0	N	B96
C/2016 N6	2017 08 05.88537	15 13 56.74	+57 54 14.5	15.9	N	C23
C/2016 N6	2017 08 05.88970	15 13 56.45	+57 54 12.0	16.0	N	C23
C/2016 N6	2017 08 05.89403	15 13 56.16	+57 54 09.6	16.0	N	C23
C/2016 N6	2017 08 05.95235	15 13 52.25	+57 53 37.1	15.7	N	I81
C/2016 N6	2017 08 05.95525	15 13 52.04	+57 53 35.6	15.7	N	I81
C/2016 N6	2017 08 05.95888	15 13 51.80	+57 53 33.5	15.6	N	I81
C/2016 N6	2017 08 06.89345	15 12 50.03	+57 44 52.9	16.4	N	C86
C/2016 N6	2017 08 06.89855	15 12 49.64	+57 44 50.0	16.2	N	K14
C/2016 N6	2017 08 06.89956	15 12 49.64	+57 44 49.5	16.4	N	C86
C/2016 N6	2017 08 06.90258	15 12 49.48	+57 44 48.1	16.4	N	C86
C/2016 N6	2017 08 06.93035	15 12 47.58	+57 44 32.1	16.1	N	K14
C/2016 N6	2017 08 06.93318	15 12 47.41	+57 44 30.2	16.1	N	K14
C/2016 N6	2017 08 06.93602	15 12 47.21	+57 44 28.6	15.9	N	K14
C/2016 N6	2017 08 06.93886	15 12 47.08	+57 44 27.0	16.0	N	K14
C/2016 N6	2017 08 07.28947	15 12 24.40	+57 41 11.5	16.5	T	T05
C/2016 N6	2017 08 07.29697	15 12 23.89	+57 41 07.2	16.5	T	T05
C/2016 N6	2017 08 07.30450	15 12 23.41	+57 41 03.0	16.4	T	T05
C/2016 N6	2017 08 07.31634	15 12 22.60	+57 40 56.3	16.4	T	T05
C/2016 N6	2017 08 09.31169	15 10 18.58	+57 22 08.1	16.3	T	T08
C/2016 N6	2017 08 09.32205	15 10 17.94	+57 22 02.4	16.3	T	T08
C/2016 N6	2017 08 09.33041	15 10 17.44	+57 21 57.4	16.2	T	T08
C/2016 N6	2017 08 09.55194	15 10 04.26	+57 19 51.1			KD81
C/2016 N6	2017 08 09.55499	15 10 03.97	+57 19 48.5			KD81
C/2016 N6	2017 08 09.55804	15 10 03.73	+57 19 47.0			KD81
C/2016 N6	2017 08 09.56530	15 10 03.50	+57 19 43.0	15.2	T	KD81
C/2016 N6	2017 08 10.87249	15 08 47.38	+57 07 15.8	16.2	N	Z55
C/2016 N6	2017 08 10.87549	15 08 47.19	+57 07 14.2	16.3	N	Z55
C/2016 N6	2017 08 10.87617	15 08 47.14	+57 07 13.1	16.2	N	Z55
C/2016 N6	2017 08 10.87686	15 08 47.12	+57 07 13.3	16.3	N	Z55
C/2016 N6	2017 08 10.87757	15 08 47.05	+57 07 12.5	16.3	N	Z55
C/2016 N6	2017 08 10.94763	15 08 42.93	+57 06 33.3	16.2	N	J22
C/2016 N6	2017 08 10.94843	15 08 42.95	+57 06 30.5	16.2	N	K02
C/2016 N6	2017 08 10.94955	15 08 42.85	+57 06 31.0	16.2	N	J22
C/2016 N6	2017 08 10.95461	15 08 42.57	+57 06 27.0	16.5	N	K02
C/2016 N6	2017 08 10.96078	15 08 42.25	+57 06 23.7	15.8	N	K02
C/2016 N6	2017 08 11.28916	15 08 23.76	+57 03 16.2	16.2	T	T05
C/2016 N6	2017 08 11.29529	15 08 23.39	+57 03 12.6	16.7	T	T05
C/2016 N6	2017 08 11.29783	15 08 23.25	+57 03 11.1	16.7	T	T05
C/2016 N6	2017 08 11.30296	15 08 22.94	+57 03 08.1	16.7	T	T05
C/2016 N6	2017 08 12.53444	15 07 15.43	+56 51 16.5			900
C/2016 N6	2017 08 12.54158	15 07 15.03	+56 51 12.5	15.7	T	900
C/2016 N6	2017 08 13.27596	15 06 36.28	+56 44 07.5	16.0	T	T08
C/2016 N6	2017 08 13.29104	15 06 35.48	+56 43 58.5	16.0	T	T08
C/2016 N6	2017 08 13.29882	15 06 35.07	+56 43 54.0	16.0	T	T08
C/2016 N6	2017 08 13.30869	15 06 34.55	+56 43 48.0	16.1	T	T08
C/2016 N6	2017 08 13.92465	15 06 02.88	+56 37 48.4	15.7	N	KK24
C/2016 N6	2017 08 13.95146	15 06 01.50	+56 37 33.0	16.2	N	K02
C/2016 N6	2017 08 13.95554	15 06 01.31	+56 37 30.9	15.9	N	KK24
C/2016 N6	2017 08 13.95766	15 06 01.17	+56 37 29.3	16.2	N	K02
C/2016 N6	2017 08 13.96391	15 06 00.87	+56 37 25.5	16.0	N	K02
C/2016 N6	2017 08 14.86946	15 05 15.71	+56 28 38.1	16.1	N	C86
C/2016 N6	2017 08 14.87543	15 05 15.42	+56 28 34.7	16.1	N	C86
C/2016 N6	2017 08 14.87624	15 05 15.33	+56 28 33.7	17.3	N	C47
C/2016 N6	2017 08 14.87841	15 05 15.29	+56 28 32.8	16.1	N	C86
C/2016 N6	2017 08 14.87993	15 05 15.11	+56 28 31.2	17.2	N	C47
C/2016 N6	2017 08 14.88399	15 05 14.89	+56 28 29.2	17.4	N	C47
C/2016 N6	2017 08 14.88805	15 05 14.69	+56 28 26.8	17.3	N	C47
C/2016 N6	2017 08 14.89211	15 05 14.54	+56 28 24.3	16.7	N	C47
C/2016 N6	2017 08 14.89617	15 05 14.24	+56 28 21.3	17.3	N	C47
C/2016 N6	2017 08 15.25457	15 04 56.956	+56 24 53.62	17.5	T	F51
C/2016 N6	2017 08 15.26812	15 04 56.258	+56 24 45.59	17.4	T	F51
C/2016 N6	2017 08 15.28165	15 04 55.590	+56 24 37.68	17.2	T	F51
C/2016 N6	2017 08 15.28670	15 04 55.38	+56 24 34.9	16.5	T	T05
C/2016 N6	2017 08 15.28815	15 04 55.28	+56 24 34.3	16.8	T	T05
C/2016 N6	2017 08 15.29519	15 04 54.923	+56 24 29.68	17.2	T	F51
C/2016 N6	2017 08 15.29796	15 04 54.81	+56 24 28.5	16.6	T	T05
C/2016 N6	2017 08 15.30244	15 04 54.59	+56 24 25.9	16.6	T	T05
C/2016 N6	2017 08 15.92649	15 04 24.99	+56 18 20.5	15.9	N	C23
C/2016 N6	2017 08 15.93082	15 04 24.72	+56 18 17.1	15.7	N	C23
C/2016 N6	2017 08 15.93515	15 04 24.49	+56 18 14.4	15.8	N	C23
C/2016 N6	2017 08 15.94840	15 04 23.88	+56 18 06.4	16.0	N	KK02
C/2016 N6	2017 08 15.95457	15 04 23.54	+56 18 02.5	16.2	N	KK02
C/2016 N6	2017 08 16.86828	15 03 41.38	+56 09 07.2	17.4	N	C47
C/2016 N6	2017 08 16.87197	15 03 41.31	+56 09 05.0	17.4	N	C47
C/2016 N6	2017 08 16.87603	15 03 41.09	+56 09 03.0	17.3	N	C47
C/2016 N6	2017 08 16.88009	15 03 40.94	+56 08 59.8	16.9	N	C47
C/2016 N6	2017 08 16.88124	15 03 40.76	+56 09 00.2	16.2	N	C86
C/2016 N6	2017 08 16.88415	15 03 40.73	+56 08 58.3	17.3	N	C47
C/2016 N6	2017 08 16.88427	15 03 40.73	+56 08 58.1	16.2	N	C86
C/2016 N6	2017 08 16.88858	15 03 40.55	+56 08 55.4	16.5	N	C47
C/2016 N6	2017 08 16.89039	15 03 40.55	+56 08 54.7	16.1	N	C86
C/2016 N6	2017 08 17.97634	15 02 52.48	+55 58 16.8	16.0	N	J22
C/2016 N6	2017 08 17.98020	15 02 52.23	+55 58 14.8	16.0	N	J22
C/2016 N6	2017 08 17.98405	15 02 52.05	+55 58 13.0	16.0	N	J22
C/2016 N6	2017 08 19.26854	15 01 58.27	+55 45 37.8	16.5	T	T05
C/2016 N6	2017 08 19.27192	15 01 58.14	+55 45 35.7	16.4	T	T05

C/2016 N6	2017 08 19.28466	15 01 57.61	+55 45 28.2	16.5	T	T05
C/2016 N6	2017 08 19.29537	15 01 57.14	+55 45 21.9	16.5	T	T05
C/2016 N6	2017 08 21.90164	15 00 17.04	+55 19 46.2	15.5	T	Z43
C/2016 N6	2017 08 21.92363	15 00 16.29	+55 19 33.3	14.8	T	Z43
C/2016 N6	2017 08 21.94697	15 00 15.43	+55 19 19.4	16.2	T	Z43
C/2016 N6	2017 08 22.85171	14 59 43.58	+55 10 27.2	17.3	N	C47
C/2016 N6	2017 08 22.85614	14 59 43.42	+55 10 24.3	17.1	N	C47
C/2016 N6	2017 08 22.86573	14 59 43.01	+55 10 18.2	16.6	N	C47
C/2016 N6	2017 08 22.87052	14 59 42.90	+55 10 16.6	17.2	N	C47
C/2016 N6	2017 08 22.87532	14 59 42.80	+55 10 13.3	17.0	N	C47
C/2016 N6	2017 08 22.88086	14 59 42.38	+55 10 09.7	17.1	N	C47
C/2016 N6	2017 08 22.98734	14 59 38.89	+55 09 07.3	15.5	N	I81
C/2016 N6	2017 08 22.99160	14 59 38.76	+55 09 05.0	15.6	N	I81
C/2016 N6	2017 08 22.99444	14 59 38.67	+55 09 03.3	15.6	N	I81
C/2016 N6	2017 08 23.25813	14 59 29.68	+55 06 30.0	16.3	T	T05
C/2016 N6	2017 08 23.26815	14 59 29.32	+55 06 23.8	16.4	T	T05
C/2016 N6	2017 08 23.27504	14 59 29.11	+55 06 19.7	16.5	T	T05
C/2016 N6	2017 08 23.28343	14 59 28.84	+55 06 14.8	16.2	T	T05
C/2016 N6	2017 08 23.83512	14 59 10.47	+55 00 49.4	16.3	N	C47
C/2016 N6	2017 08 23.83844	14 59 10.28	+55 00 46.3	17.3	N	C47
C/2016 N6	2017 08 23.84213	14 59 10.18	+55 00 45.2	17.0	N	C47
C/2016 N6	2017 08 23.84729	14 59 10.01	+55 00 42.1	16.9	N	C47
C/2016 N6	2017 08 23.85430	14 59 09.81	+55 00 37.9	16.9	N	C47
C/2016 N6	2017 08 23.85726	14 59 09.78	+55 00 35.7	17.1	N	C47
C/2016 N6	2017 08 25.26415	14 58 25.31	+54 46 52.6	16.2	T	T08
C/2016 N6	2017 08 25.27426	14 58 25.02	+54 46 46.7	15.8	T	T08
C/2016 N6	2017 08 25.27883	14 58 24.89	+54 46 44.0	15.8	T	T08
C/2016 N6	2017 08 25.87381	14 58 07.04	+54 40 54.5	15.6	N	970
C/2016 N6	2017 08 25.87962	14 58 06.90	+54 40 50.9	15.6	N	970
C/2016 N6	2017 08 25.89611	14 58 06.46	+54 40 41.3	16.2	N	Z50
C/2016 N6	2017 08 25.89916	14 58 06.37	+54 40 39.2	16.2	N	Z50
C/2016 N6	2017 08 25.89975	14 58 06.25	+54 40 39.6	16.1	N	9 G40
C/2016 N6	2017 08 25.90826	14 58 06.16	+54 40 34.0	16.2	N	Z50
C/2016 N6	2017 08 25.91556	14 58 05.82	+54 40 30.0	15.9	N	9 G40
C/2016 N6	2017 08 26.53417	14 57 47.98	+54 34 28.5			K 367
C/2016 N6	2017 08 26.53843	14 57 47.84	+54 34 26.5			K 367
C/2016 N6	2017 08 26.53964	14 57 47.82	+54 34 26.0	15.6	T	K 367
C/2016 N6	2017 08 26.82207	14 57 39.92	+54 31 40.9	15.8	N	K K25
C/2016 N6	2017 08 26.82970	14 57 39.72	+54 31 36.7	15.8	N	K K25
C/2016 N6	2017 08 27.84784	14 57 12.21	+54 21 44.1	15.8	N	C23
C/2016 N6	2017 08 27.85217	14 57 12.05	+54 21 41.6	15.5	N	C23
C/2016 N6	2017 08 27.85649	14 57 11.97	+54 21 39.3	15.7	N	C23
C/2016 N6	2017 08 27.88043	14 57 11.32	+54 21 25.0	15.5	N	K K25
C/2016 N6	2017 08 27.88815	14 57 11.07	+54 21 20.6	15.9	N	K K25
C/2016 N6	2017 08 29.88025	14 56 22.06	+54 02 08.2	15.8	N	J22
C/2016 N6	2017 08 29.88120	14 56 21.91	+54 02 05.5	16.1	N	K77
C/2016 N6	2017 08 29.88412	14 56 21.96	+54 02 04.9	15.8	N	J22
C/2016 N6	2017 08 29.88559	14 56 21.80	+54 02 03.0	16.1	N	K77
C/2016 N6	2017 08 29.88789	14 56 21.69	+54 02 02.3	15.8	N	J22
C/2016 N6	2017 08 29.89218	14 56 21.58	+54 01 58.9	16.0	N	K77
C/2016 N6	2017 08 29.95277	14 56 20.37	+54 01 24.8	15.6	N	I81
C/2016 N6	2017 08 29.95859	14 56 20.24	+54 01 21.5	15.6	N	I81
C/2016 N6	2017 08 29.96283	14 56 20.15	+54 01 18.8	15.7	N	I81
C/2016 N6	2017 08 31.26775	14 55 51.40	+53 48 49.8	15.7	T	T05
C/2016 N6	2017 08 31.27937	14 55 51.15	+53 48 43.2	15.7	T	T05
C/2016 N6	2017 08 31.27985	14 55 51.14	+53 48 43.0	15.6	T	T05
C/2016 N6	2017 08 31.29079	14 55 50.88	+53 48 36.8	15.6	T	T05
C/2016 N6	2017 09 01.82639	14 55 20.38	+53 33 58.9	15.6	N	585
C/2016 N6	2017 09 01.82810	14 55 20.37	+53 33 57.9	15.7	N	585
C/2016 N6	2017 09 01.82895	14 55 20.34	+53 33 57.7	15.6	N	585
C/2016 N6	2017 09 01.82967	14 55 20.34	+53 33 56.9	15.7	N	585
C/2016 N6	2017 09 01.83040	14 55 20.32	+53 33 56.6	15.7	N	585
C/2016 N6	2017 09 01.83112	14 55 20.28	+53 33 55.3	15.8	N	585
C/2016 N6	2017 09 01.83184	14 55 20.29	+53 33 55.7	15.8	N	585
C/2016 N6	2017 09 01.83257	14 55 20.25	+53 33 54.8	15.8	N	585
C/2016 N6	2017 09 01.83329	14 55 20.25	+53 33 54.1	15.8	N	585
C/2016 N6	2017 09 01.83401	14 55 20.26	+53 33 54.7	15.7	N	585
C/2016 N6	2017 09 01.83473	14 55 20.24	+53 33 54.3	15.9	N	585
C/2016 N6	2017 09 01.83547	14 55 20.21	+53 33 53.8	15.7	N	585
C/2016 N6	2017 09 01.98306	14 55 17.58	+53 32 30.5	16.2	N	K I72
C/2016 N6	2017 09 02.00070	14 55 17.08	+53 32 19.0	16.1	N	K I72
C/2016 N6	2017 09 02.02881	14 55 16.71	+53 32 03.4	16.1	N	K I72
C/2016 N6	2017 09 02.50115	14 55 08.02	+53 27 36.3	15.4	T	D95
C/2016 N6	2017 09 02.50655	14 55 07.92	+53 27 33.3			D95
C/2016 N6	2017 09 02.51409	14 55 07.74	+53 27 28.9			D95
C/2016 N6	2017 09 02.92953	14 55 00.47	+53 23 32.2	16.3	N	K02
C/2016 N6	2017 09 02.93262	14 55 00.50	+53 23 31.8	15.9	N	K02
C/2016 N6	2017 09 02.93883	14 55 00.52	+53 23 27.3	16.4	N	K02
C/2016 N6	2017 09 03.03287	14 54 58.83	+53 22 34.7	15.5	N	I81
C/2016 N6	2017 09 03.03571	14 54 58.79	+53 22 33.3	15.5	N	I81
C/2016 N6	2017 09 03.03996	14 54 58.73	+53 22 31.3	15.4	N	I81
C/2016 N6	2017 09 03.50009	14 54 50.97	+53 18 12.1	15.5	T	349
C/2016 N6	2017 09 03.51292	14 54 50.71	+53 18 05.2			349
C/2016 N6	2017 09 04.24912	14 54 38.98	+53 11 11.7	16.4	T	T05
C/2016 N6	2017 09 04.26038	14 54 38.85	+53 11 05.7	15.7	T	T05
C/2016 N6	2017 09 04.27265	14 54 38.64	+53 10 58.7	15.7	T	T05
C/2016 N6	2017 09 04.27569	14 54 38.59	+53 10 57.0	15.6	T	T05
C/2016 N6	2017 09 04.85528	14 54 29.98	+53 05 32.4	15.9	N	C86
C/2016 N6	2017 09 04.85900	14 54 29.91	+53 05 30.2	16.1	N	C86
C/2016 N6	2017 09 04.86644	14 54 29.82	+53 05 26.1	16.0	N	C86
C/2016 N6	2017 09 04.98038	14 54 28.18	+53 04 21.7	15.6	N	I81
C/2016 N6	2017 09 04.98463	14 54 28.13	+53 04 19.3	15.5	N	I81
C/2016 N6	2017 09 04.98747	14 54 28.09	+53 04 17.8	15.6	N	I81
C/2016 N6	2017 09 07.93255	14 53 51.47	+52 37 10.7	15.6	N	585
C/2016 N6	2017 09 07.93326	14 53 51.47	+52 37 10.1	15.7	N	585
C/2016 N6	2017 09 07.93468	14 53 51.45	+52 37 09.6	15.7	N	585
C/2016 N6	2017 09 07.93539	14 53 51.47	+52 37 09.1	15.6	N	585
C/2016 N6	2017 09 07.93609	14 53 51.45	+52 37 08.4	15.8	N	585
C/2016 N6	2017 09 07.93680	14 53 51.39	+52 37 08.0	15.6	N	585
C/2016 N6	2017 09 07.93751	14 53 51.39	+52 37 07.9	15.6	N	585
C/2016 N6	2017 09 07.93822	14 53 51.41	+52 37 07.9	15.7	N	585
C/2016 N6	2017 09 07.93893	14 53 51.39	+52 37 06.6	15.7	N	585
C/2016 N6	2017 09 07.93963	14 53 51.45	+52 37 06.8	15.7	N	585
C/2016 N6	2017 09 07.94034	14 53 51.42	+52 37 06.7	15.7	N	585
C/2016 N6	2017 09 07.94105	14 53 51.37	+52 37 05.8	15.6	N	585
C/2016 N6	2017 09 07.94176	14 53 51.33	+52 37 05.2	15.7	N	585

C/2016 N6	2017 09 07.94247	14 53 51.33	+52 37 05.1	15.7	N	585
C/2016 N6	2017 09 07.94318	14 53 51.43	+52 37 05.1	15.7	N	585
C/2016 N6	2017 09 07.94389	14 53 51.33	+52 37 04.2	15.6	N	585
C/2016 N6	2017 09 07.94459	14 53 51.35	+52 37 03.6	15.5	N	585
C/2016 N6	2017 09 07.94530	14 53 51.33	+52 37 03.2	15.5	N	585
C/2016 N6	2017 09 08.24837	14 53 48.19	+52 34 20.5	15.7	T	T05
C/2016 N6	2017 09 08.24975	14 53 48.17	+52 34 19.7	15.7	T	T05
C/2016 N6	2017 09 08.25485	14 53 48.13	+52 34 16.8	15.6	T	T05
C/2016 N6	2017 09 08.26781	14 53 47.98	+52 34 09.8	15.6	T	T05
C/2016 N6	2017 09 08.95488	14 53 41.36	+52 27 55.4	16.0	N	J22
C/2016 N6	2017 09 08.95890	14 53 41.21	+52 27 54.0	16.0	N	J22
C/2016 N6	2017 09 08.96287	14 53 41.08	+52 27 51.7	16.0	N	J22
C/2016 N6	2017 09 10.85060	14 53 26.14	+52 10 56.8	16.1	N	C86
C/2016 N6	2017 09 10.85796	14 53 26.12	+52 10 51.6	16.2	N	C86
C/2016 N6	2017 09 10.86164	14 53 26.00	+52 10 49.3	16.1	N	C86
C/2016 N6	2017 09 10.98698	14 53 25.29	+52 09 42.6	16.0	N	K02
C/2016 N6	2017 09 10.99160	14 53 25.22	+52 09 40.1	16.1	N	K02
C/2016 N6	2017 09 10.99934	14 53 25.17	+52 09 35.8	16.1	N	K02
C/2016 N6	2017 09 11.91369	14 53 19.58	+52 01 31.3	16.1	N	585
C/2016 N6	2017 09 11.91440	14 53 19.53	+52 01 30.2	16.1	N	585
C/2016 N6	2017 09 11.91583	14 53 19.59	+52 01 29.8	16.0	N	585
C/2016 N6	2017 09 11.91873	14 53 19.59	+52 01 28.8	15.7	N	585
C/2016 N6	2017 09 11.91946	14 53 19.54	+52 01 27.8	15.5	N	585
C/2016 N6	2017 09 11.92022	14 53 19.55	+52 01 27.1	15.6	N	585
C/2016 N6	2017 09 11.92317	14 53 19.51	+52 01 26.2	16.1	N	585
C/2016 N6	2017 09 11.92391	14 53 19.57	+52 01 25.9	15.9	N	585
C/2016 N6	2017 09 11.92534	14 53 19.51	+52 01 24.4	15.4	N	585
C/2016 N6	2017 09 11.92609	14 53 19.56	+52 01 23.9	15.6	N	585
C/2016 N6	2017 09 11.92681	14 53 19.58	+52 01 24.0	15.7	N	585
C/2016 N6	2017 09 11.99028	14 53 19.14	+52 00 50.0	16.5	N	K02
C/2016 N6	2017 09 11.99645	14 53 19.13	+52 00 47.0	16.2	N	K02
C/2016 N6	2017 09 12.00263	14 53 19.09	+52 00 44.0	15.7	N	K02
C/2016 N6	2017 09 12.45522	14 53 16.69	+51 56 47.0			K D81
C/2016 N6	2017 09 12.45828	14 53 16.67	+51 56 45.3			K D81
C/2016 N6	2017 09 12.46133	14 53 16.71	+51 56 43.7			K D81
C/2016 N6	2017 09 12.46437	14 53 16.64	+51 56 42.0	14.6	T	K D81
C/2016 N6	2017 09 12.82085	14 53 14.91	+51 53 34.4	15.6	N	K A77
C/2016 N6	2017 09 12.82823	14 53 14.99	+51 53 30.5	15.7	N	K A77
C/2016 N6	2017 09 12.83562	14 53 14.87	+51 53 26.1	15.0	T	K A77
C/2016 N6	2017 09 13.85308	14 53 10.93	+51 44 37.0	16.4	N	9 G40
C/2016 N6	2017 09 13.85798	14 53 10.89	+51 44 34.6	16.2	N	9 G40
C/2016 N6	2017 09 13.91245	14 53 10.78	+51 44 07.3	16.1	N	C86
C/2016 N6	2017 09 13.91617	14 53 10.83	+51 44 04.2	16.1	N	C86
C/2016 N6	2017 09 13.91990	14 53 10.71	+51 44 03.2	16.2	N	C86
C/2016 N6	2017 09 15.11161	14 53 07.80	+51 33 49.8	15.6	T	703
C/2016 N6	2017 09 15.11775	14 53 07.81	+51 33 46.6	15.4	T	703
C/2016 N6	2017 09 15.12387	14 53 07.79	+51 33 43.3	15.4	T	703
C/2016 N6	2017 09 15.12999	14 53 07.76	+51 33 40.2	14.5	T	703
C/2016 N6	2017 09 15.45917	14 53 07.08	+51 30 51.4	15.0	T	D95
C/2016 N6	2017 09 15.46995	14 53 07.06	+51 30 45.9			D95
C/2016 N6	2017 09 15.47318	14 53 07.04	+51 30 44.0			D95
C/2016 N6	2017 09 15.83044	14 53 06.66	+51 27 42.3	15.6	N	C23
C/2016 N6	2017 09 15.83611	14 53 06.67	+51 27 39.4	15.5	N	C23
C/2016 N6	2017 09 15.84060	14 53 06.63	+51 27 37.0	15.7	N	C23
C/2016 N6	2017 09 15.87973	14 53 06.59	+51 27 18.1	16.0	N	I72
C/2016 N6	2017 09 15.91122	14 53 06.55	+51 27 01.6	16.0	N	I72
C/2016 N6	2017 09 15.93378	14 53 06.53	+51 26 50.3	16.0	N	I72
C/2016 N6	2017 09 19.90232	14 53 11.35	+50 54 03.0	15.5	N	I81
C/2016 N6	2017 09 19.90943	14 53 11.36	+50 53 59.0	15.5	N	I81
C/2016 N6	2017 09 19.91512	14 53 11.40	+50 53 56.5	15.5	N	I81
C/2016 N6	2017 09 20.88483	14 53 15.08	+50 46 10.2	15.8	N	C86
C/2016 N6	2017 09 20.89226	14 53 15.08	+50 46 07.1	15.8	N	C86
C/2016 N6	2017 09 20.89975	14 53 15.16	+50 46 03.6	15.8	N	C86
C/2016 N6	2017 09 22.11265	14 53 21.19	+50 36 31.0	15.3	T	703
C/2016 N6	2017 09 22.12629	14 53 21.25	+50 36 24.4	15.3	T	703
C/2016 N6	2017 09 22.13153	14 53 21.29	+50 36 22.0	15.3	T	703
C/2016 N6	2017 09 22.13674	14 53 21.30	+50 36 19.3	15.3	T	703
C/2016 N6	2017 09 24.77328	14 53 39.13	+50 16 05.2	15.7	N	C23
C/2016 N6	2017 09 24.77777	14 53 39.20	+50 16 03.4	15.2	N	C23
C/2016 N6	2017 09 24.78300	14 53 39.25	+50 16 00.9	15.4	N	C23
C/2016 N6	2017 09 25.82541	14 53 48.09	+50 08 13.7	17.1	N	C47
C/2016 N6	2017 09 25.83057	14 53 48.14	+50 08 11.3	17.2	N	C47
C/2016 N6	2017 09 25.83611	14 53 48.22	+50 08 08.8	16.2	N	C47
C/2016 N6	2017 09 25.84164	14 53 48.24	+50 08 06.1	15.7	N	C47
C/2016 N6	2017 09 25.86050	14 53 48.38	+50 07 57.6	15.6	N	J22
C/2016 N6	2017 09 25.86451	14 53 48.40	+50 07 56.3	15.6	N	J22
C/2016 N6	2017 09 25.86846	14 53 48.45	+50 07 54.2	15.6	N	J22
C/2016 N6	2017 09 26.89441	14 53 58.22	+50 00 24.0	15.6	N	I72
C/2016 N6	2017 09 26.91620	14 53 58.43	+50 00 14.4	15.6	N	I72
C/2016 N6	2017 09 26.93779	14 53 58.68	+50 00 04.4	15.6	N	I72

C/2016 Q2 (PANSTARRS)

C/2016 Q2	2017 07 23.00603	21 18 30.83	−04 19 49.3	20.4	T	K 461
C/2016 Q2	2017 07 23.01250	21 18 30.68	−04 19 49.5	19.8	T	K 461
C/2016 Q2	2017 07 29.00545	21 15 54.38	−04 18 27.9	20.3	T	K 461
C/2016 Q2	2017 07 29.01201	21 15 54.20	−04 18 28.2	20.5	T	K 461
C/2016 Q2	2017 08 23.41470	21 04 29.264	−04 20 54.19	21.2	T	F51
C/2016 Q2	2017 08 23.42738	21 04 28.925	−04 20 54.44	21.3	T	F51
C/2016 Q2	2017 08 23.44001	21 04 28.577	−04 20 54.81	21.3	T	F51
C/2016 Q2	2017 08 23.45263	21 04 28.237	−04 20 54.98	21.5	T	F51
C/2016 Q2	2017 08 23.89092	21 04 16.67	−04 21 02.4	20.1	T	K 461
C/2016 Q2	2017 08 23.89899	21 04 16.41	−04 21 02.0	20.2	T	K 461
C/2016 Q2	2017 08 24.41164	21 04 02.853	−04 21 12.38	21.6	T	F51
C/2016 Q2	2017 08 24.41293	21 04 02.822	−04 21 12.45	21.3	T	F51
C/2016 Q2	2017 08 24.42366	21 04 02.544	−04 21 12.83	21.8	T	F51
C/2016 Q2	2017 08 24.42496	21 04 02.489	−04 21 12.67	21.4	T	F51
C/2016 Q2	2017 08 24.43568	21 04 02.206	−04 21 12.84	21.5	T	F51
C/2016 Q2	2017 08 24.43697	21 04 02.173	−04 21 13.18	21.6	T	F51
C/2016 Q2	2017 08 24.44768	21 04 01.887	−04 21 13.35	21.7	T	F51
C/2016 Q2	2017 08 24.44898	21 04 01.849	−04 21 13.16	21.8	T	F51
C/2016 Q2	2017 08 25.87200	21 03 24.36	−04 21 39.1	19.6	N	K A71
C/2016 Q2	2017 08 25.89149	21 03 23.93	−04 21 39.2	19.8	N	K A71
C/2016 Q2	2017 09 13.376454	20 55 49.083	−04 28 48.39	20.3	T	29 568
C/2016 Q2	2017 09 13.378661	20 55 49.035	−04 28 48.48	20.3	T	29 568
C/2016 Q2	2017 09 16.31972	20 54 43.950	−04 30 00.50	21.4	T	F51
C/2016 Q2	2017 09 16.33238	20 54 43.656	−04 30 00.77	21.5	T	F51

C/2016 Q2	2017 09 16.34506	20 54 43.374	−04 30 01.01	21.7	T		F51
C/2016 Q2	2017 09 16.35770	20 54 43.104	−04 30 01.46	21.7	T		F51

C/2016 R2 (PANSTARRS)

C/2016 R2	2017 06 25.82506	04 28 39.13	−07 35 00.1			1	Q62
C/2016 R2	2017 06 25.82758	04 28 39.29	−07 34 59.0	14.7	T	1	Q62
C/2016 R2	2017 07 19.42526	04 50 27.19	−05 39 13.7	16.7	N	3W88	
C/2016 R2	2017 07 19.43064	04 50 27.48	−05 39 12.3	16.8	N	3W88	
C/2016 R2	2017 07 19.43639	04 50 27.75	−05 39 10.5	16.8	N	3W88	
C/2016 R2	2017 08 01.79876	05 02 02.04	−04 47 23.2			K	367
C/2016 R2	2017 08 01.80119	05 02 02.14	−04 47 22.2			K	367
C/2016 R2	2017 08 01.80402	05 02 02.33	−04 47 21.9	15.0	T	K	367
C/2016 R2	2017 08 03.42505	05 03 22.98	−04 41 36.7	17.0	N	3W88	
C/2016 R2	2017 08 03.43065	05 03 23.23	−04 41 36.1	17.0	N	3W88	
C/2016 R2	2017 08 03.43638	05 03 23.53	−04 41 34.7	17.0	N	3W88	
C/2016 R2	2017 08 07.22182	05 06 28.77	−04 28 45.7	16.1	N	J22	
C/2016 R2	2017 08 07.22980	05 06 29.08	−04 28 44.3	16.1	N	J22	
C/2016 R2	2017 08 13.33934	05 11 16.60	−04 09 12.2	16.2	N	W96	
C/2016 R2	2017 08 13.38283	05 11 18.57	−04 09 04.1	16.3	N	W96	
C/2016 R2	2017 08 16.36623	05 13 33.35	−04 00 02.9	16.2	N	W96	
C/2016 R2	2017 08 16.39182	05 13 34.48	−03 59 58.6	16.3	N	W96	
C/2016 R2	2017 08 19.79284	05 16 03.11	−03 50 06.5			349	
C/2016 R2	2017 08 19.79948	05 16 03.42	−03 50 05.2	14.3	T	349	
C/2016 R2	2017 08 20.22152	05 16 21.49	−03 48 52.1	16.2	N	9	G40
C/2016 R2	2017 08 20.23181	05 16 21.93	−03 48 50.9	16.3	N	9	G40
C/2016 R2	2017 08 26.80625	05 20 50.96	−03 30 40.8			K	367
C/2016 R2	2017 08 26.80747	05 20 51.01	−03 30 40.6			K	367
C/2016 R2	2017 08 26.80909	05 20 51.08	−03 30 40.4	14.3	T	K	367
C/2016 R2	2017 08 29.10810	05 22 19.45	−03 24 33.3	16.2	N	K	C23
C/2016 R2	2017 08 29.11099	05 22 19.55	−03 24 32.2	16.0	N	K	C23
C/2016 R2	2017 08 29.11387	05 22 19.62	−03 24 31.5	16.4	N	K	C23
C/2016 R2	2017 08 30.30762	05 23 04.31	−03 21 20.3	16.2	N	W96	
C/2016 R2	2017 08 30.34078	05 23 05.58	−03 21 14.6	15.8	N	W96	
C/2016 R2	2017 09 01.15418	05 24 11.47	−03 16 33.1	16.1	N	K	C23
C/2016 R2	2017 09 01.15568	05 24 11.62	−03 16 32.4	16.4	N	K	C23
C/2016 R2	2017 09 01.15793	05 24 11.57	−03 16 32.8	15.5	N	K	C23
C/2016 R2	2017 09 01.35006	05 24 18.51	−03 15 59.5	16.1	N	W96	
C/2016 R2	2017 09 01.36976	05 24 19.23	−03 15 56.9	16.1	N	W96	
C/2016 R2	2017 09 01.39094	05 24 19.95	−03 15 53.6	16.1	N	W96	
C/2016 R2	2017 09 01.78351	05 24 33.92	−03 14 54.5			K	367
C/2016 R2	2017 09 01.78472	05 24 33.96	−03 14 54.3			K	367
C/2016 R2	2017 09 01.78634	05 24 34.02	−03 14 54.0	14.2	T	K	367
C/2016 R2	2017 09 02.15540	05 24 47.06	−03 13 56.7	16.1	N	K	A77
C/2016 R2	2017 09 02.16358	05 24 47.35	−03 13 56.2	16.1	N	K	A77
C/2016 R2	2017 09 02.75964	05 25 08.19	−03 12 22.5	13.4	T	D95	
C/2016 R2	2017 09 02.76503	05 25 08.38	−03 12 21.8			D95	
C/2016 R2	2017 09 02.76719	05 25 08.45	−03 12 21.3			D95	
C/2016 R2	2017 09 02.77653	05 25 08.75	−03 12 19.7	15.8	N	K	Q21
C/2016 R2	2017 09 02.78181	05 25 08.86	−03 12 19.4	15.4	N	K	Q21
C/2016 R2	2017 09 02.80047	05 25 09.62	−03 12 15.8			K	D81
C/2016 R2	2017 09 02.80089	05 25 09.63	−03 12 15.8			K	D81
C/2016 R2	2017 09 02.80296	05 25 09.66	−03 12 15.6			K	D81
C/2016 R2	2017 09 02.80464	05 25 09.70	−03 12 15.4	14.1	T	349	
C/2016 R2	2017 09 02.80550	05 25 09.74	−03 12 15.1	13.7	T	K	D81
C/2016 R2	2017 09 02.81050	05 25 09.89	−03 12 14.4			349	
C/2016 R2	2017 09 08.31997	05 28 10.95	−02 58 00.5	16.0	N	W96	
C/2016 R2	2017 09 08.35025	05 28 11.91	−02 57 55.9	16.0	N	W96	
C/2016 R2	2017 09 08.38111	05 28 12.80	−02 57 51.4	15.9	N	W96	
C/2016 R2	2017 09 08.59039	05 28 19.27	−02 57 20.9	15.6	T	T08	
C/2016 R2	2017 09 08.59728	05 28 19.45	−02 57 19.7	15.6	T	T08	
C/2016 R2	2017 09 08.60421	05 28 19.68	−02 57 18.5	15.7	T	T08	
C/2016 R2	2017 09 08.61120	05 28 19.88	−02 57 17.4	15.6	T	T08	
C/2016 R2	2017 09 08.61445	05 28 19.96	−02 57 17.0	15.7	T	T08	
C/2016 R2	2017 09 08.62144	05 28 20.17	−02 57 15.8	15.7	T	T08	
C/2016 R2	2017 09 08.62859	05 28 20.41	−02 57 14.7	15.7	T	T08	
C/2016 R2	2017 09 08.63547	05 28 20.58	−02 57 13.5	15.6	T	T08	
C/2016 R2	2017 09 10.10601	05 29 04.95	−02 53 27.2	15.8	N	C23	
C/2016 R2	2017 09 10.11034	05 29 05.06	−02 53 26.8	16.0	N	C23	
C/2016 R2	2017 09 10.11466	05 29 05.18	−02 53 25.8	15.8	N	C23	
C/2016 R2	2017 09 12.05446	05 30 01.01	−02 48 25.0	15.3	N	585	
C/2016 R2	2017 09 12.05517	05 30 01.04	−02 48 25.5	15.4	N	585	
C/2016 R2	2017 09 12.05588	05 30 01.04	−02 48 24.6	15.2	N	585	
C/2016 R2	2017 09 12.05659	05 30 01.10	−02 48 25.7	15.3	N	585	
C/2016 R2	2017 09 12.05730	05 30 01.12	−02 48 24.8	15.5	N	585	
C/2016 R2	2017 09 12.05801	05 30 01.18	−02 48 24.4	15.4	N	585	
C/2016 R2	2017 09 12.05871	05 30 01.16	−02 48 24.6	15.5	N	585	
C/2016 R2	2017 09 12.05942	05 30 01.15	−02 48 24.9	15.4	N	585	
C/2016 R2	2017 09 12.06013	05 30 01.18	−02 48 24.1	15.2	N	585	
C/2016 R2	2017 09 12.06084	05 30 01.20	−02 48 24.1	15.4	N	585	
C/2016 R2	2017 09 12.06155	05 30 01.22	−02 48 23.7	15.4	N	585	
C/2016 R2	2017 09 12.06225	05 30 01.24	−02 48 24.0	15.3	N	585	
C/2016 R2	2017 09 12.06296	05 30 01.27	−02 48 24.1	15.4	N	585	
C/2016 R2	2017 09 12.06367	05 30 01.32	−02 48 23.5	15.3	N	585	
C/2016 R2	2017 09 12.06438	05 30 01.26	−02 48 24.0	15.4	N	585	
C/2016 R2	2017 09 12.06508	05 30 01.31	−02 48 23.9	15.3	N	585	
C/2016 R2	2017 09 12.10552	05 30 02.42	−02 48 16.1	16.5	N	K02	
C/2016 R2	2017 09 12.11230	05 30 02.74	−02 48 17.2	16.2	N	K02	
C/2016 R2	2017 09 12.11994	05 30 02.96	−02 48 14.8	16.5	N	K02	
C/2016 R2	2017 09 12.40916	05 30 10.87	−02 47 28.0	16	T		C51
Geocentric position (km)		− 1487.1077	+ 6688.4019	−	410.3528		
C/2016 R2	2017 09 12.54006	05 30 14.48	−02 47 07.8				C51
Geocentric position (km)		− 1505.0596	+ 6685.5262	−	391.0600		
C/2016 R2	2017 09 12.80187	05 30 21.68	−02 46 26.9				C51
Geocentric position (km)		− 1540.8915	+ 6679.4721	−	352.6043		
C/2016 R2	2017 09 12.86732	05 30 23.45	−02 46 17.1				C51
Geocentric position (km)		− 1549.8309	+ 6677.8913	−	343.0344		
C/2016 R2	2017 09 12.86744	05 30 23.49	−02 46 16.6				C51
Geocentric position (km)		− 1538.3420	+ 6675.8692	−	426.0806		
C/2016 R2	2017 09 12.93290	05 30 25.29	−02 46 06.5				C51
Geocentric position (km)		− 1547.3059	+ 6674.3985	−	416.4922		
C/2016 R2	2017 09 12.99835	05 30 27.06	−02 45 56.5				C51
Geocentric position (km)		− 1556.2630	+ 6672.8956	−	406.9103		
C/2016 R2	2017 09 14.12531	05 30 57.30	−02 43 02.2	17.0	N	K	215
C/2016 R2	2017 09 14.12660	05 30 57.33	−02 43 02.1	17.0	N	K	215
C/2016 R2	2017 09 14.12790	05 30 57.38	−02 43 02.0	16.8	N	K	215
C/2016 R2	2017 09 15.07646	05 31 21.96	−02 40 32.2	15.3	N		585

C/2016 R2	2017 09 15.07717	05 31 21.98	−02 40 32.1	15.3	N	585
C/2016 R2	2017 09 15.07788	05 31 22.00	−02 40 32.3	15.4	N	585
C/2016 R2	2017 09 15.07859	05 31 22.02	−02 40 32.0	15.4	N	585
C/2016 R2	2017 09 15.07930	05 31 22.03	−02 40 31.9	15.3	N	585
C/2016 R2	2017 09 15.08000	05 31 22.07	−02 40 31.6	15.3	N	585
C/2016 R2	2017 09 15.08072	05 31 22.07	−02 40 31.9	15.4	N	585
C/2016 R2	2017 09 15.08151	05 31 22.08	−02 40 31.4	15.5	N	585
C/2016 R2	2017 09 15.08222	05 31 22.12	−02 40 31.6	15.4	N	585
C/2016 R2	2017 09 15.08293	05 31 22.14	−02 40 31.2	15.4	N	585
C/2016 R2	2017 09 15.08371	05 31 22.14	−02 40 31.1	15.4	N	585
C/2016 R2	2017 09 15.08450	05 31 22.22	−02 40 31.1	15.4	N	585
C/2016 R2	2017 09 15.08521	05 31 22.17	−02 40 31.0	15.4	N	585
C/2016 R2	2017 09 15.08599	05 31 22.18	−02 40 30.7	15.4	N	585
C/2016 R2	2017 09 15.08674	05 31 22.22	−02 40 30.9	15.4	N	585
C/2016 R2	2017 09 15.13612	05 31 23.50	−02 40 23.1	16.2	N	K02
C/2016 R2	2017 09 15.14383	05 31 23.71	−02 40 22.2	16.1	N	K02
C/2016 R2	2017 09 15.15241	05 31 23.91	−02 40 21.3	16.4	N	K02
C/2016 R2	2017 09 15.72808	05 31 38.49	−02 38 49.1	14.0	T	D95
C/2016 R2	2017 09 15.72916	05 31 38.50	−02 38 48.7			D95
C/2016 R2	2017 09 15.73239	05 31 38.60	−02 38 48.5			D95
C/2016 R2	2017 09 17.10947	05 32 12.12	−02 35 09.8	15.7	N	C23
C/2016 R2	2017 09 17.11380	05 32 12.18	−02 35 09.2	15.7	N	C23
C/2016 R2	2017 09 17.11813	05 32 12.29	−02 35 08.4	15.7	N	C23
C/2016 R2	2017 09 18.34914	05 32 40.86	−02 31 47.7	15.9	N	W96
C/2016 R2	2017 09 18.38657	05 32 41.67	−02 31 41.7	15.9	N	W96
C/2016 R2	2017 09 19.13979	05 32 58.49	−02 29 42.6	15.5	N	I81
C/2016 R2	2017 09 19.14405	05 32 58.58	−02 29 42.0	15.6	N	I81
C/2016 R2	2017 09 19.14689	05 32 58.66	−02 29 41.0	16.0	N	I81
C/2016 R2	2017 09 19.15926	05 32 58.96	−02 29 38.1	16.0	N	K A77
C/2016 R2	2017 09 19.16666	05 32 59.06	−02 29 37.3	16.0	N	K A77
C/2016 R2	2017 09 19.17405	05 32 59.21	−02 29 36.7	14.4	T	K A77
C/2016 R2	2017 09 22.19749	05 34 01.14	−02 21 17.3	15.4	N	I81
C/2016 R2	2017 09 22.20033	05 34 01.15	−02 21 17.0	15.2	N	I81
C/2016 R2	2017 09 22.20317	05 34 01.21	−02 21 16.5	15.3	N	I81
C/2016 R2	2017 09 23.10593	05 34 18.01	−02 18 42.1	15.9	N	K A71
C/2016 R2	2017 09 23.11255	05 34 18.16	−02 18 40.8	15.9	N	K A71
C/2016 R2	2017 09 23.11917	05 34 18.25	−02 18 40.0	16.0	N	K A71
C/2016 R2	2017 09 24.35528	05 34 40.00	−02 15 05.1	15.9	N	W96
C/2016 R2	2017 09 24.39372	05 34 40.60	−02 14 58.5	15.8	N	W96
C/2016 R2	2017 09 24.72778	05 34 46.28	−02 14 03.6	15.1	T	372
C/2016 R2	2017 09 24.73476	05 34 46.40	−02 14 01.7			372
C/2016 R2	2017 09 25.14712	05 34 53.06	−02 12 49.8	15.9	N	A77
C/2016 R2	2017 09 25.15794	05 34 53.26	−02 12 48.0	15.7	N	A77
C/2016 R2	2017 09 25.17094	05 34 53.42	−02 12 45.9	15.7	N	A77
C/2016 R2	2017 09 25.42443	05 34 57.48	−02 12 01.2	15.9	N	H47
C/2016 R2	2017 09 25.43294	05 34 57.61	−02 11 59.7	15.9	N	H47
C/2016 R2	2017 09 25.44120	05 34 57.73	−02 11 58.4	15.9	N	H47
C/2016 R2	2017 09 25.45215	05 34 57.90	−02 11 56.4	15.7	N	H47
C/2016 R2	2017 09 30.10268	05 36 00.05	−01 57 44.9	16.6	N	K A71
C/2016 R2	2017 09 30.10931	05 36 00.12	−01 57 43.8	16.7	N	K A71
C/2016 R2	2017 09 30.11593	05 36 00.18	−01 57 42.7	16.6	N	K A71

C/2016 T3 (PANSTARRS)

C/2016 T3	2017 09 06.22623	08 06 01.14	+15 44 52.6	17.0	N	9 G40
C/2016 T3	2017 09 06.23317	08 06 01.93	+15 44 48.4	17.3	N	9 G40
C/2016 T3	2017 09 17.15523	08 24 22.90	+13 29 13.9	17.6	N	K A77
C/2016 T3	2017 09 17.16415	08 24 23.66	+13 29 06.9	17.6	N	K A77
C/2016 T3	2017 09 17.17307	08 24 24.55	+13 29 00.1	17.8	N	K A77

C/2016 VZ_{18} (PANSTARRS)

C/2016 VZ_{18}	2017 07 25.257177	14 35 04.258	+02 56 57.74	23.6	T	29 568
C/2016 VZ_{18}	2017 07 25.260480	14 35 04.470	+02 56 54.09	23.6	T	29 568

P/2016 WM_{48} (Lemmon)

P/2016 WM_{48}	2017 08 15.32650	17 19 16.104	+48 38 18.75	21.7	T	F51
P/2016 WM_{48}	2017 08 15.33992	17 19 14.693	+48 37 46.87	21.6	T	F51
P/2016 WM_{48}	2017 08 15.35334	17 19 13.249	+48 37 14.74	21.9	T	F51

C/2017 B3 (LINEAR)

C/2017 B3	2017 03 04.64767	12 43 47.34	−26 55 34.6	17.5	T	K D95
C/2017 B3	2017 03 04.65338	12 43 47.12	−26 55 38.1			K D95
C/2017 B3	2017 06 30.35160	11 57 05.50	−26 26 32.2	18.2	N	Q68
C/2017 B3	2017 06 30.37423	11 57 05.66	−26 26 32.9	18.3	N	Q68
C/2017 B3	2017 07 02.38492	11 57 21.47	−26 27 26.4	18.2	N	Q68
C/2017 B3	2017 07 02.40737	11 57 21.65	−26 27 27.3	18.0	N	Q68
C/2017 B3	2017 07 09.36159	11 58 35.49	−26 32 42.0	18.1	N	K Q68
C/2017 B3	2017 07 09.49055	11 58 37.03	−26 32 48.9	18.4	N	K Q68
C/2017 B3	2017 07 11.41233	11 59 02.69	−26 34 53.7	17.9	N	Q68
C/2017 B3	2017 07 11.43466	11 59 03.04	−26 34 55.9	17.6	N	Q68
C/2017 B3	2017 07 13.35714	11 59 30.82	−26 37 15.3	17.9	N	Q68
C/2017 B3	2017 07 13.38149	11 59 31.19	−26 37 17.2	18.1	N	Q68
C/2017 B3	2017 07 17.37553	12 00 35.62	−26 43 00.0	18.0	N	Q68
C/2017 B3	2017 07 17.39784	12 00 36.01	−26 43 02.2	17.9	N	Q68
C/2017 B3	2017 07 18.35090	12 00 52.73	−26 44 34.4	18.0	N	Q68
C/2017 B3	2017 07 18.37887	12 00 53.21	−26 44 37.1	17.9	N	Q68
C/2017 B3	2017 07 21.41324	12 01 49.64	−26 49 56.5	17.6	N	Q68
C/2017 B3	2017 07 21.43394	12 01 50.10	−26 49 59.9	18.0	N	Q68

C/2017 C2 (PANSTARRS)

C/2017 C2	2017 08 21.621200	05 10 50.638	+05 22 36.12	22.6	T	29 568
C/2017 C2	2017 08 21.624466	05 10 50.639	+05 22 33.14	22.8	T	29 568
C/2017 C2	2017 09 17.621542	05 03 53.589	−02 23 55.90	22.2	T	29 568
C/2017 C2	2017 09 17.624800	05 03 53.475	−02 23 59.69	22.2	T	29 568

C/2017 D2 (Barros)

C/2017 D2	2017 07 06.53118	22 05 35.96	−35 27 37.3	17.2	T	T05
C/2017 D2	2017 07 06.54048	22 05 35.70	−35 27 32.3	17.1	T	T05
C/2017 D2	2017 07 06.54980	22 05 35.44	−35 27 27.9	17.2	T	T05
C/2017 D2	2017 07 06.55937	22 05 35.18	−35 27 23.3	17.2	T	T05
C/2017 D2	2017 07 07.21178	22 05 17.67	−35 21 49.7	17.4	T	Y00
C/2017 D2	2017 07 07.21341	22 05 17.61	−35 21 49.6	17.4	T	Y00
C/2017 D2	2017 07 07.22096	22 05 17.33	−35 21 46.0	17.6	T	Y00
C/2017 D2	2017 07 07.22397	22 05 17.37	−35 21 45.0	17.7	T	Y00
C/2017 D2	2017 07 07.23149	22 05 17.01	−35 21 40.9	17.6	T	Y00
C/2017 D2	2017 07 07.23307	22 05 16.98	−35 21 40.1	17.7	T	Y00
C/2017 D2	2017 07 16.07447	22 00 00.97	−34 01 50.8	17.1	N	B74
C/2017 D2	2017 07 16.07949	22 00 00.73	−34 01 48.3	17.1	N	B74

C/2017 D2	2017 07 16.08536	22 00 00.46	−34 01 44.6	17.2	N	B74
C/2017 D2	2017 07 19.00877	21 57 46.21	−33 32 46.7	16.7	T	K 585
C/2017 D2	2017 07 19.01089	21 57 46.16	−33 32 44.3	16.8	T	K 585
C/2017 D2	2017 07 19.01266	21 57 46.03	−33 32 44.2	16.8	N	K 585
C/2017 D2	2017 07 20.50729	21 56 32.30	−33 17 20.7	16.9	T	T08
C/2017 D2	2017 07 20.51696	21 56 31.79	−33 17 14.9	16.8	T	T08
C/2017 D2	2017 07 20.52278	21 56 31.50	−33 17 11.0	16.8	T	T08
C/2017 D2	2017 07 24.50425	21 53 00.28	−32 34 18.1	16.7	T	T08
C/2017 D2	2017 07 24.51200	21 52 59.82	−32 34 13.1	16.7	T	T08
C/2017 D2	2017 07 24.51395	21 52 59.70	−32 34 11.7	16.7	T	T08
C/2017 D2	2017 07 24.52173	21 52 59.26	−32 34 07.0	16.7	T	T08
C/2017 D2	2017 07 25.01869	21 52 31.65	−32 28 34.5	17.0	N	B74
C/2017 D2	2017 07 25.02523	21 52 31.29	−32 28 29.5	17.0	N	B74
C/2017 D2	2017 07 25.03309	21 52 30.86	−32 28 25.1	17.0	N	B74
C/2017 D2	2017 07 26.76110	21 50 51.90	−32 08 37.2	16.6	N	¡ Q62
C/2017 D2	2017 07 26.76954	21 50 51.40	−32 08 31.5	16.7	N	¡ Q62
C/2017 D2	2017 07 28.28571	21 49 22.67	−31 50 49.6	16.7	N	W96
C/2017 D2	2017 07 28.30459	21 49 21.52	−31 50 36.1	16.7	N	W96
C/2017 D2	2017 07 28.32430	21 49 20.30	−31 50 21.9	16.7	N	W96
C/2017 D2	2017 07 29.57425	21 48 05.65	−31 35 23.4	17.9	N	467
C/2017 D2	2017 07 29.57551	21 48 05.56	−31 35 22.6	17.5	N	467
C/2017 D2	2017 07 29.57819	21 48 05.41	−31 35 20.6	17.9	N	467
C/2017 D2	2017 07 29.57948	21 48 05.31	−31 35 19.6	17.9	N	467
C/2017 D2	2017 07 29.58074	21 48 05.21	−31 35 18.7	18.0	N	467
C/2017 D2	2017 07 30.54235	21 47 06.95	−31 23 36.0	17.8	N	467
C/2017 D2	2017 07 30.54360	21 47 06.86	−31 23 35.4	16.9	N	467
C/2017 D2	2017 07 30.54486	21 47 06.78	−31 23 34.4	17.3	N	467
C/2017 D2	2017 07 31.02538	21 46 37.29	−31 17 45.0	16.7	N	K A77
C/2017 D2	2017 07 31.04488	21 46 36.02	−31 17 31.1	16.7	N	K A77
C/2017 D2	2017 07 31.06510	21 46 34.75	−31 17 15.6	17.1	N	K A77
C/2017 D2	2017 08 01.04827	21 45 34.18	−31 05 01.5	17.1	N	B74
C/2017 D2	2017 08 01.05464	21 45 33.76	−31 04 56.7	17.1	N	B74
C/2017 D2	2017 08 01.05910	21 45 33.46	−31 04 52.8	17.0	N	B74
C/2017 D2	2017 08 01.12397	21 45 29.58	−31 03 59.7	17.3	T	Y00
C/2017 D2	2017 08 01.13527	21 45 28.84	−31 03 51.4	17.4	T	Y00
C/2017 D2	2017 08 01.14810	21 45 28.01	−31 03 41.6	17.3	T	Y00
C/2017 D2	2017 08 01.46898	21 45 08.04	−30 59 42.2	16.8	T	T08
C/2017 D2	2017 08 01.47307	21 45 07.80	−30 59 39.5	16.7	T	T08
C/2017 D2	2017 08 01.48302	21 45 07.14	−30 59 31.8	16.7	T	T08
C/2017 D2	2017 08 01.49767	21 45 06.17	−30 59 20.7	16.7	T	T08
C/2017 D2	2017 08 03.45206	21 43 03.75	−30 34 18.6	16.8	T	T05
C/2017 D2	2017 08 03.45402	21 43 03.61	−30 34 16.9	17.0	T	T05
C/2017 D2	2017 08 03.45745	21 43 03.43	−30 34 14.3	17.1	T	T05
C/2017 D2	2017 08 03.46669	21 43 02.79	−30 34 06.6	17.6	T	T05
C/2017 D2	2017 08 03.97237	21 42 30.94	−30 27 31.4	17.1	N	B74
C/2017 D2	2017 08 03.97666	21 42 30.67	−30 27 29.4	17.1	N	B74
C/2017 D2	2017 08 03.99335	21 42 29.62	−30 27 15.2	17.2	N	B74
C/2017 D2	2017 08 04.32001	21 42 08.55	−30 22 53.4	16.7	N	W96
C/2017 D2	2017 08 04.33913	21 42 07.29	−30 22 38.2	16.7	N	W96
C/2017 D2	2017 08 04.35887	21 42 06.00	−30 22 22.3	16.6	N	W96
C/2017 D2	2017 08 05.38883	21 41 01.02	−30 08 47.2	16.5	T	T08
C/2017 D2	2017 08 05.39611	21 41 00.51	−30 08 42.0	16.8	T	T08
C/2017 D2	2017 08 05.40339	21 40 59.98	−30 08 36.7	16.0	T	T08
C/2017 D2	2017 08 05.41067	21 40 59.58	−30 08 30.3	16.9	T	T08
C/2017 D2	2017 08 05.57697	21 40 48.72	−30 06 10.9	16.7	N	E94
C/2017 D2	2017 08 05.58190	21 40 48.40	−30 06 07.2	17.0	N	E94
C/2017 D2	2017 08 05.58690	21 40 48.07	−30 06 02.9	16.8	N	E94
C/2017 D2	2017 08 10.46901	21 35 36.18	−28 58 49.4	16.5	T	T08
C/2017 D2	2017 08 10.48255	21 35 35.28	−28 58 38.2	16.5	T	T08
C/2017 D2	2017 08 10.48411	21 35 35.21	−28 58 37.3	16.5	T	T08
C/2017 D2	2017 08 10.49238	21 35 34.66	−28 58 29.8	16.7	T	T08
C/2017 D2	2017 08 12.28243	21 33 40.84	−28 32 46.6	16.6	N	W96
C/2017 D2	2017 08 12.31109	21 33 38.99	−28 32 21.8	16.7	N	W96
C/2017 D2	2017 08 12.61772	21 33 19.88	−28 28 00.7			900
C/2017 D2	2017 08 12.62487	21 33 19.43	−28 27 54.5	14.7	T	900
C/2017 D2	2017 08 13.41710	21 32 29.543	−28 16 21.01	17.3	T	F51
C/2017 D2	2017 08 13.42853	21 32 28.749	−28 16 10.88	17.3	T	F51
C/2017 D2	2017 08 13.43999	21 32 28.040	−28 16 00.94	17.4	T	F51
C/2017 D2	2017 08 14.02223	21 31 51.54	−28 07 28.9	16.3	N	J22
C/2017 D2	2017 08 14.02610	21 31 51.36	−28 07 25.9	16.3	N	J22
C/2017 D2	2017 08 14.02997	21 31 51.11	−28 07 22.0	16.3	N	J22
C/2017 D2	2017 08 14.46284	21 31 23.85	−28 00 58.8	16.4	T	T08
C/2017 D2	2017 08 14.46908	21 31 23.45	−28 00 53.5	16.5	T	T08
C/2017 D2	2017 08 14.48316	21 31 22.53	−28 00 40.9	16.5	T	T08
C/2017 D2	2017 08 14.49461	21 31 21.80	−28 00 30.7	16.4	T	T08
C/2017 D2	2017 08 16.44016	21 29 21.57	−27 31 31.6	17.1	T	T05
C/2017 D2	2017 08 16.44848	21 29 21.01	−27 31 24.5	17.1	T	T05
C/2017 D2	2017 08 16.45480	21 29 20.61	−27 31 18.4	17.2	T	T05
C/2017 D2	2017 08 16.46501	21 29 19.98	−27 31 09.4	16.9	T	T05
C/2017 D2	2017 08 17.38692	21 28 24.21	−27 17 08.6	16.6	N	32Q62
C/2017 D2	2017 08 17.40070	21 28 23.37	−27 16 56.3	16.5	N	32Q62
C/2017 D2	2017 08 17.94346	21 27 50.33	−27 08 49.7	17.4	N	B74
C/2017 D2	2017 08 17.95090	21 27 49.86	−27 08 42.9	17.4	N	B74
C/2017 D2	2017 08 17.95777	21 27 49.44	−27 08 36.3	17.4	N	B74
C/2017 D2	2017 08 18.44836	21 27 19.81	−27 01 07.2	16.4	T	T08
C/2017 D2	2017 08 18.45719	21 27 19.26	−27 00 59.4	16.5	T	T08
C/2017 D2	2017 08 18.46395	21 27 18.84	−27 00 53.0	16.7	T	T08
C/2017 D2	2017 08 18.47483	21 27 18.16	−27 00 43.1	16.5	T	T08
C/2017 D2	2017 08 18.90807	21 26 52.50	−26 54 07.3	17.1	N	K A71
C/2017 D2	2017 08 18.91574	21 26 52.08	−26 54 00.5	17.2	N	K A71
C/2017 D2	2017 08 18.98810	21 26 48.00	−26 52 51.1	16.7	T	t W98
C/2017 D2	2017 08 18.99519	21 26 47.58	−26 52 40.6	16.8	T	t W98
C/2017 D2	2017 08 19.00227	21 26 46.94	−26 52 30.9	16.8	T	t W98
C/2017 D2	2017 08 20.94346	21 24 53.10	−26 22 45.2	16.5	N	K K25
C/2017 D2	2017 08 20.95052	21 24 52.77	−26 22 38.8	16.5	N	K K25
C/2017 D2	2017 08 20.98666	21 24 50.77	−26 22 04.8	16.4	N	J22
C/2017 D2	2017 08 20.98861	21 24 50.62	−26 22 02.6	16.4	N	J22
C/2017 D2	2017 08 20.99453	21 24 50.26	−26 21 57.6	16.4	N	J22
C/2017 D2	2017 08 21.95057	21 23 55.51	−26 07 06.3	16.7	N	K K25
C/2017 D2	2017 08 21.96235	21 23 54.83	−26 06 55.4	16.6	N	K K25
C/2017 D2	2017 08 22.42174	21 23 28.82	−25 59 43.7	16.7	T	T08
C/2017 D2	2017 08 22.43056	21 23 28.31	−25 59 35.5	16.7	T	T08
C/2017 D2	2017 08 22.43943	21 23 27.79	−25 59 26.9	16.4	T	T08
C/2017 D2	2017 08 22.44826	21 23 27.26	−25 59 19.3	16.6	T	T08
C/2017 D2	2017 08 22.91675	21 23 01.24	−25 52 00.4	17.2	N	K 107
C/2017 D2	2017 08 22.92477	21 23 00.78	−25 51 52.7	16.2	N	C35

C/2017 D2	2017 08 22.92680	21 23 00.66	−25 51 50.8	16.7	N	K 107
C/2017 D2	2017 08 22.92773	21 23 00.64	−25 51 49.8	16.0	N	C35
C/2017 D2	2017 08 22.93685	21 23 00.10	−25 51 41.5	17.0	N	K 107
C/2017 D2	2017 08 22.94619	21 22 59.53	−25 51 32.0	16.9	N	K 107
C/2017 D2	2017 08 22.95193	21 22 59.20	−25 51 27.2	17.0	N	K 107
C/2017 D2	2017 08 23.89789	21 22 07.05	−25 36 34.8	16.8	N	K A71
C/2017 D2	2017 08 23.90451	21 22 06.67	−25 36 28.7	16.8	N	K A71
C/2017 D2	2017 08 23.91223	21 22 06.24	−25 36 21.0	16.8	N	K A71
C/2017 D2	2017 08 24.43267	21 21 37.94	−25 28 08.7	16.7	T	T05
C/2017 D2	2017 08 24.44112	21 21 37.47	−25 28 00.6	16.5	T	T05
C/2017 D2	2017 08 24.44957	21 21 37.01	−25 27 52.5	16.4	T	T05
C/2017 D2	2017 08 24.46395	21 21 36.19	−25 27 39.0	16.7	T	T05
C/2017 D2	2017 08 24.96361	21 21 09.51	−25 19 46.6	17.0	N	B74
C/2017 D2	2017 08 24.96897	21 21 09.20	−25 19 41.6	17.1	N	B74
C/2017 D2	2017 08 24.97432	21 21 08.89	−25 19 35.3	171	N	B74
C/2017 D2	2017 08 27.94693	21 18 36.02	−24 32 20.3	16.4	N	J22
C/2017 D2	2017 08 27.95078	21 18 35.84	−24 32 16.9	16.4	N	J22
C/2017 D2	2017 08 27.95463	21 18 35.61	−24 32 13.0	16.4	N	J22
C/2017 D2	2017 08 28.41295	21 18 12.86	−24 24 53.4	16.5	T	T05
C/2017 D2	2017 08 28.41912	21 18 12.53	−24 24 47.5	16.4	T	T05
C/2017 D2	2017 08 28.42721	21 18 12.10	−24 24 39.7	16.5	T	T05
C/2017 D2	2017 08 28.44292	21 18 11.31	−24 24 24.6	16.2	T	T05
C/2017 D2	2017 08 28.98766	21 17 44.98	−24 15 42.8	16.6	N	212
C/2017 D2	2017 08 28.99340	21 17 44.71	−24 15 36.7	16.6	N	212
C/2017 D2	2017 08 28.99914	21 17 44.39	−24 15 31.9	16.6	N	212
C/2017 D2	2017 08 30.91469	21 16 14.99	−23 44 49.5	17.0	T	9 G40
C/2017 D2	2017 08 30.92215	21 16 14.65	−23 44 41.6	17.0	T	9 G40
C/2017 D2	2017 08 31.57291	21 15 45.26	−23 34 15.5			900
C/2017 D2	2017 08 31.58005	21 15 44.91	−23 34 08.6	15.8	T	900
C/2017 D2	2017 08 31.85714	21 15 32.82	−23 29 41.8	16.8	N	K C10
C/2017 D2	2017 08 31.91168	21 15 30.32	−23 28 49.8	17.1	N	K C10
C/2017 D2	2017 09 02.58017	21 14 19.02	−23 02 00.4	15.8	T	349
C/2017 D2	2017 09 02.58484	21 14 18.79	−23 01 56.2			349
C/2017 D2	2017 09 08.43248	21 10 43.73	−21 28 12.3			K D81
C/2017 D2	2017 09 08.43536	21 10 43.65	−21 28 08.8			K D81
C/2017 D2	2017 09 08.43881	21 10 43.63	−21 28 04.1	16.8	T	K D81
C/2017 D2	2017 09 08.66798	21 10 35.78	−21 24 17.5	17.7	N	Q68
C/2017 D2	2017 09 08.69911	21 10 34.77	−21 23 48.4	17.0	N	Q68
C/2017 D2	2017 09 10.93295	21 09 28.46	−20 48 23.0	17.0	N	J22
C/2017 D2	2017 09 10.93905	21 09 28.25	−20 48 16.8	17.0	N	J22
C/2017 D2	2017 09 10.94104	21 09 28.22	−20 48 14.2	17.0	N	J22
C/2017 D2	2017 09 11.38288	21 09 15.86	−20 41 14.6	16.9	T	T08
C/2017 D2	2017 09 11.39118	21 09 15.60	−20 41 06.2	17.3	T	T08
C/2017 D2	2017 09 11.39900	21 09 15.40	−20 40 59.9	16.9	T	T08
C/2017 D2	2017 09 11.40741	21 09 15.14	−20 40 51.5	17.2	T	T08
C/2017 D2	2017 09 11.90466	21 09 02.00	−20 33 01.4	17.0	N	B74
C/2017 D2	2017 09 11.91017	21 09 01.84	−20 32 56.6	17.0	N	B74
C/2017 D2	2017 09 11.92635	21 09 01.34	−20 32 40.9	17.0	N	B74
C/2017 D2	2017 09 11.93403	21 09 01.20	−20 32 35.0	17.2	N	K K02
C/2017 D2	2017 09 11.94168	21 09 00.99	−20 32 26.7	17.4	N	K K02
C/2017 D2	2017 09 13.91014	21 08 12.43	−20 01 24.9	17.6	N	K K02
C/2017 D2	2017 09 13.91705	21 08 12.29	−20 01 18.5	17.5	N	K K02
C/2017 D2	2017 09 14.80323	21 07 52.70	−19 47 25.8	17.9	T	K 215
C/2017 D2	2017 09 14.80590	21 07 52.60	−19 47 22.9			K 215
C/2017 D2	2017 09 14.80877	21 07 52.50	−19 47 20.1	18.0	T	K 215
C/2017 D2	2017 09 14.92804	21 07 49.82	−19 45 29.1	17.4	N	K K02
C/2017 D2	2017 09 14.93320	21 07 49.66	−19 45 23.7	17.6	N	K K02
C/2017 D2	2017 09 15.39863	21 07 39.92	−19 38 06.5	16.8	T	T05
C/2017 D2	2017 09 15.40892	21 07 39.68	−19 37 56.6	16.7	T	T05
C/2017 D2	2017 09 15.41317	21 07 39.61	−19 37 52.9	16.8	T	T05
C/2017 D2	2017 09 15.41916	21 07 39.45	−19 37 46.8	16.9	T	T05
C/2017 D2	2017 09 15.42298	21 07 39.38	−19 37 43.4	16.8	T	T05
C/2017 D2	2017 09 15.42948	21 07 39.23	−19 37 36.8	16.9	T	T05
C/2017 D2	2017 09 15.43315	21 07 39.14	−19 37 34.1	16.8	T	T05
C/2017 D2	2017 09 15.44391	21 07 38.93	−19 37 23.3	16.9	T	T05
C/2017 D2	2017 09 15.94030	21 07 29.13	−19 29 42.2	16.6	N	K C23
C/2017 D2	2017 09 15.94618	21 07 28.94	−19 29 35.3	16.9	N	K C23
C/2017 D2	2017 09 17.36104	21 07 02.99	−19 07 36.9	17.8	T	T05
C/2017 D2	2017 09 17.36938	21 07 02.86	−19 07 29.2	17.8	T	T05
C/2017 D2	2017 09 17.37029	21 07 02.86	−19 07 28.8	17.3	T	T05
C/2017 D2	2017 09 17.37722	21 07 02.69	−19 07 22.2	17.8	T	T05
C/2017 D2	2017 09 17.37862	21 07 02.68	−19 07 21.0	17.3	T	T05
C/2017 D2	2017 09 17.38553	21 07 02.55	−19 07 14.8	17.2	T	T05
C/2017 D2	2017 09 17.38646	21 07 02.51	−19 07 13.8	17.8	T	T05
C/2017 D2	2017 09 17.39480	21 07 02.39	−19 07 05.8	17.2	T	T05
C/2017 D2	2017 09 17.73931	21 06 56.62	−19 01 46.5	17.8	N	C97
C/2017 D2	2017 09 17.74091	21 06 56.63	−19 01 45.0	17.8	N	C97
C/2017 D2	2017 09 17.74252	21 06 56.59	−19 01 43.5	17.9	N	C97
C/2017 D2	2017 09 17.74412	21 06 56.54	−19 01 42.4	18.0	N	C97
C/2017 D2	2017 09 17.74619	21 06 56.53	−19 01 39.3	18.0	N	C97
C/2017 D2	2017 09 17.74869	21 06 56.52	−19 01 37.3	17.9	N	C97
C/2017 D2	2017 09 17.75045	21 06 56.50	−19 01 35.8	17.8	N	C97
C/2017 D2	2017 09 17.75206	21 06 56.41	−19 01 34.7	17.8	N	C97
C/2017 D2	2017 09 18.02046	21 06 51.96	−18 57 26.2	17.1	N	J22
C/2017 D2	2017 09 18.02449	21 06 51.88	−18 57 22.5	17.1	N	J22
C/2017 D2	2017 09 18.02845	21 06 51.83	−18 57 18.8	17.1	N	J22
C/2017 D2	2017 09 18.12037	21 06 50.47	−18 55 49.6	17.6	N	3W88
C/2017 D2	2017 09 18.12632	21 06 50.34	−18 55 43.8	17.4	N	3W88
C/2017 D2	2017 09 18.13141	21 06 50.28	−18 55 39.4	17.5	N	3W88
C/2017 D2	2017 09 21.35542	21 06 07.88	−18 06 27.4	17.4	T	T05
C/2017 D2	2017 09 21.36324	21 06 07.73	−18 06 19.2	18.0	T	T05
C/2017 D2	2017 09 21.37199	21 06 07.74	−18 06 11.9	17.4	T	T05
C/2017 D2	2017 09 21.37979	21 06 07.54	−18 06 03.5	18.1	T	T05
C/2017 D2	2017 09 24.59756	21 05 42.65	−17 17 44.1			K Q11
C/2017 D2	2017 09 24.60111	21 05 42.61	−17 17 40.3	16.8	T	K Q11
C/2017 D2	2017 09 24.83292	21 05 41.74	−17 14 14.1	17.7	N	B74
C/2017 D2	2017 09 24.84043	21 05 41.70	−17 14 07.4	17.7	N	B74
C/2017 D2	2017 09 24.84940	21 05 41.63	−17 13 59.6	17.7	N	B74
C/2017 D2	2017 09 25.94257	21 05 37.43	−16 57 46.5	17.4	N	J22
C/2017 D2	2017 09 25.94461	21 05 37.42	−16 57 44.8	17.4	N	J22
C/2017 D2	2017 09 25.95052	21 05 37.38	−16 57 38.2	17.4	N	J22
C/2017 D2	2017 09 27.31253	21 05 35.07	−16 37 37.0	17.3	T	T08
C/2017 D2	2017 09 27.32037	21 05 35.04	−16 37 30.7	17.7	T	T08
C/2017 D2	2017 09 27.32819	21 05 35.03	−16 37 23.7	17.2	T	T08
C/2017 D2	2017 09 27.33600	21 05 35.00	−16 37 16.6	17.6	T	T08

C/2017 D2	2017 09 28.56263	21 05 35.39	−16 19 22.5			900
C/2017 D2	2017 09 28.56977	21 05 35.41	−16 19 16.1	17.0	T	900

C/2017 D3 (ATLAS)

C/2017 D3	2017 06 24.49404	11 50 24.64	−09 38 19.9	18.1	N	Q68
C/2017 D3	2017 06 24.50848	11 50 24.71	−09 38 13.2	18.2	N	Q68
C/2017 D3	2017 07 02.36725	11 50 41.12	−08 30 44.0	18.0	N	Q68
C/2017 D3	2017 07 02.38144	11 50 41.17	−08 30 37.8	18.1	N	Q68
C/2017 D3	2017 07 08.25657	11 51 20.34	−07 45 53.6	18.0	T	T08
C/2017 D3	2017 07 08.26303	11 51 20.42	−07 45 51.9	17.9	T	T08
C/2017 D3	2017 07 08.27148	11 51 20.50	−07 45 48.0	17.9	T	T08
C/2017 D3	2017 07 08.27994	11 51 20.60	−07 45 44.5	17.7	T	T08
C/2017 D3	2017 07 11.38765	11 51 49.77	−07 23 53.9	18.1	N	Q68
C/2017 D3	2017 07 11.41003	11 51 50.01	−07 23 43.6	18.2	N	Q68
C/2017 D3	2017 07 17.25115	11 52 59.55	−06 45 58.7	18.1	T	T08
C/2017 D3	2017 07 17.25406	11 52 59.56	−06 45 56.7	18.1	T	T08
C/2017 D3	2017 07 17.25892	11 52 59.64	−06 45 56.0	18.1	T	T08
C/2017 D3	2017 07 17.26622	11 52 59.71	−06 45 53.7	18.2	T	T08
C/2017 D3	2017 07 17.35902	11 53 01.06	−06 45 17.9	18.2	N	Q68
C/2017 D3	2017 07 17.37321	11 53 01.25	−06 45 12.4	18.0	N	Q68

C/2017 E1 (Borisov)

C/2017 E1	2017 06 25.82482	03 03 48.34	+07 50 11.4			1 Q62
C/2017 E1	2017 06 25.82652	03 03 48.54	+07 50 10.8	15.8	T	1 Q62

C/2017 E3 (PANSTARRS)

C/2017 E3	2017 06 25.37204	12 41 25.60	−30 49 19.9	17.5	N	Q68
C/2017 E3	2017 06 25.47707	12 41 27.26	−30 48 22.8	17.6	N	Q68
C/2017 E3	2017 06 26.50210	12 41 44.22	−30 39 08.4	17.5	N	Q68
C/2017 E3	2017 06 26.52565	12 41 44.61	−30 38 55.6	17.4	N	Q68
C/2017 E3	2017 06 30.38579	12 42 54.45	−30 05 02.9	17.6	N	Q68
C/2017 E3	2017 06 30.42316	12 42 55.11	−30 04 43.9	17.6	N	Q68
C/2017 E3	2017 07 01.52428	12 43 16.65	−29 55 20.2	17.6	N	Q68
C/2017 E3	2017 07 01.54679	12 43 17.08	−29 55 08.9	17.4	N	Q68
C/2017 E3	2017 07 02.41784	12 43 34.65	−29 47 48.5	17.6	N	Q68
C/2017 E3	2017 07 02.45699	12 43 35.46	−29 47 29.6	17.5	N	Q68
C/2017 E3	2017 07 07.52543	12 45 26.26	−29 06 17.7	17.6	N	Q68
C/2017 E3	2017 07 07.53144	12 45 26.18	−29 06 16.1	17.6	N	Q68
C/2017 E3	2017 07 08.28643	12 45 44.02	−29 00 23.5	17.5	T	T08
C/2017 E3	2017 07 08.29038	12 45 43.96	−29 00 20.7	17.6	T	T08
C/2017 E3	2017 07 08.29481	12 45 44.15	−29 00 19.6	17.3	T	T08
C/2017 E3	2017 07 08.29878	12 45 44.21	−29 00 16.6	17.4	T	T08
C/2017 E3	2017 07 09.39110	12 46 10.43	−28 51 48.4	17.6	N	Q68
C/2017 E3	2017 07 09.43911	12 46 11.56	−28 51 26.2	17.6	N	Q68
C/2017 E3	2017 07 10.25807	12 46 31.74	−28 45 13.5	17.8	T	T05
C/2017 E3	2017 07 10.26516	12 46 31.79	−28 45 08.9	17.8	T	T05
C/2017 E3	2017 07 10.27372	12 46 31.99	−28 45 05.6	17.8	T	T05
C/2017 E3	2017 07 10.28216	12 46 32.18	−28 45 01.7	17.9	T	T05
C/2017 E3	2017 07 11.44496	12 47 01.20	−28 36 15.5	17.6	N	Q68
C/2017 E3	2017 07 11.46964	12 47 01.78	−28 36 04.0	17.4	N	Q68
C/2017 E3	2017 07 13.39473	12 47 51.48	−28 21 53.4	17.5	N	Q68
C/2017 E3	2017 07 13.42928	12 47 52.41	−28 21 39.0	17.6	N	Q68
C/2017 E3	2017 07 17.40810	12 49 40.78	−27 53 31.6	17.6	N	Q68
C/2017 E3	2017 07 17.43171	12 49 41.45	−27 53 22.3	17.7	N	Q68
C/2017 E3	2017 07 18.38913	12 50 08.69	−27 46 50.5	17.6	N	Q68
C/2017 E3	2017 07 18.41373	12 50 09.39	−27 46 40.6	17.6	N	Q68
C/2017 E3	2017 07 19.48603	12 50 40.40	−27 39 29.8	17.6	N	Q68
C/2017 E3	2017 07 19.51214	12 50 41.15	−27 39 19.5	17.7	N	Q68
C/2017 E3	2017 07 20.25255	12 51 02.89	−27 34 26.7	17.7	T	T08
C/2017 E3	2017 07 20.25692	12 51 03.01	−27 34 25.1	17.5	T	T08
C/2017 E3	2017 07 20.26323	12 51 03.19	−27 34 22.6	17.6	T	T08
C/2017 E3	2017 07 20.27205	12 51 03.46	−27 34 19.1	17.6	T	T08
C/2017 E3	2017 07 21.44554	12 51 38.43	−27 26 38.9	17.7	N	Q68
C/2017 E3	2017 07 21.48767	12 51 39.72	−27 26 22.5	17.6	N	Q68
C/2017 E3	2017 07 22.47302	12 52 09.57	−27 20 03.4	18.0	N	Q68
C/2017 E3	2017 07 22.49947	12 52 10.32	−27 19 53.7	17.7	N	Q68

C/2017 F2 (PANSTARRS)

C/2017 F2	2017 07 19.249670	11 59 12.019	+34 10 59.98	21.5	T	29 568
C/2017 F2	2017 07 19.253593	11 59 12.136	+34 10 57.94	21.2	T	29 568

P/2017 G2 (PANSTARRS)

P/2017 G2	2017 07 15.25787	13 05 37.01	+36 51 14.3	18.9	T	T08
P/2017 G2	2017 07 15.25884	13 05 37.04	+36 51 12.2	18.7	T	T08
P/2017 G2	2017 07 15.25982	13 05 37.06	+36 51 12.1	18.7	T	T08
P/2017 G2	2017 07 15.26372	13 05 37.32	+36 51 06.9	18.9	T	T08
P/2017 G2	2017 07 18.30173	13 08 55.85	+35 42 43.6	18.7	T	T08
P/2017 G2	2017 07 18.31032	13 08 56.39	+35 42 31.8	19.0	T	T08
P/2017 G2	2017 07 18.31874	13 08 56.90	+35 42 20.1	19.3	T	T08
P/2017 G2	2017 07 18.32722	13 08 57.56	+35 42 08.9	19.1	T	T08
P/2017 G2	2017 07 26.31151	13 17 57.05	+32 43 51.8	19.1	T	T08
P/2017 G2	2017 07 26.32010	13 17 57.54	+32 43 41.3	18.9	T	T08
P/2017 G2	2017 07 26.32866	13 17 58.05	+32 43 29.3	18.9	T	T08
P/2017 G2	2017 07 26.33695	13 17 58.63	+32 43 19.9	18.8	T	T08

C/2017 G3 (PANSTARRS)

C/2017 G3	2017 05 23.20739	12 11 40.97	+27 09 30.4			32H06
C/2017 G3	2017 05 23.20980	12 11 40.61	+27 09 30.7			32H06
C/2017 G3	2017 05 23.21222	12 11 40.23	+27 09 30.4	20.3	T	32H06

C/2017 K1 (PANSTARRS)

C/2017 K1	2017 07 15.32087	15 03 49.054	−23 31 10.40	20.8	T	F51
C/2017 K1	2017 07 15.33280	15 03 48.704	−23 31 06.80	20.7	T	F51
C/2017 K1	2017 07 15.34479	15 03 48.358	−23 31 03.37	20.7	T	F51
C/2017 K1	2017 07 15.35671	15 03 47.994	−23 30 59.84	20.8	T	F51

C/2017 K2 (PANSTARRS)

C/2017 K2	2013 05 12.587567	17 49 49.521	+70 25 00.31	21.4	T	F 568
C/2017 K2	2013 05 12.595074	17 49 49.373	+70 25 00.84	21.7	T	F 568
C/2017 K2	2013 05 12.602580	17 49 49.216	+70 25 01.58	21.7	T	F 568
C/2017 K2	2013 05 13.607057	17 49 25.447	+70 26 18.03	22.1	T	F 568
C/2017 K2	2015 11 23.07791	17 26 17.90	+61 53 06.2	19.8	N	K 703
C/2017 K2	2016 05 06.46114	17 56 45.75	+66 06 28.0	19.9	N	K 703
C/2017 K2	2016 06 05.36402	17 42 49.27	+66 42 16.1	20.4	N	K 703
C/2017 K2	2016 06 13.38135	17 38 30.72	+66 43 12.7	19.7	N	K 703
C/2017 K2	2016 07 11.30756	17 23 55.51	+66 15 45.5	19.7	N	K 703
C/2017 K2	2017 03 22.49608	18 07 31.64	+61 54 24.7	19.1	N	K 703
C/2017 K2	2017 04 07.47283	18 06 36.31	+62 44 55.8	18.8	N	K 703
C/2017 K2	2017 04 16.46146	18 05 03.37	+63 11 55.6	19.2	N	K 703

C/2017 K2	2017 04 21.45011	18 03 52.67	+63 26 05.5	19.4	N	K	703
C/2017 K2	2017 04 26.44587	18 02 28.12	+63 39 30.7	19.6	N	K	703
C/2017 K2	2017 05 03.41804	18 00 08.28	+63 56 39.2	19.5	N	K	703
C/2017 K2	2017 05 03.42375	18 00 08.09	+63 56 40.8	19.7	N	K	703
C/2017 K2	2017 05 03.42947	18 00 07.95	+63 56 41.8	19.5	N	K	703
C/2017 K2	2017 07 04.96271	17 27 59.62	+64 25 42.8	19.1	T	K	461
C/2017 K2	2017 07 05.00136	17 27 58.33	+64 25 39.0			K	461
C/2017 K2	2017 07 06.94671	17 26 56.82	+64 22 19.2	19.0	T	K	461
C/2017 K2	2017 07 06.96966	17 26 56.28	+64 22 17.2	19.4	T	K	461
C/2017 K2	2017 07 09.93342	17 25 24.54	+64 16 44.8	19.1	N	K	A77
C/2017 K2	2017 07 09.97751	17 25 23.33	+64 16 40.2	18.8	N	K	A77
C/2017 K2	2017 07 12.96800	17 23 53.38	+64 10 30.5	18.0	N	K	970
C/2017 K2	2017 07 12.99200	17 23 52.72	+64 10 26.6	17.6	N	K	970
C/2017 K2	2017 07 13.02762	17 23 51.68	+64 10 22.1	18.4	N	K	C23
C/2017 K2	2017 07 13.03627	17 23 51.56	+64 10 22.4	18.7	N	K	C23
C/2017 K2	2017 07 15.37901	17 22 43.388	+64 05 08.11	20.8	T		F51
C/2017 K2	2017 07 15.39134	17 22 42.994	+64 05 06.12	21.0	T		F51
C/2017 K2	2017 07 15.40367	17 22 42.648	+64 05 04.51	20.7	T		F51
C/2017 K2	2017 07 15.41598	17 22 42.281	+64 05 02.61	20.9	T		F51
C/2017 K2	2017 07 17.86382	17 21 33.21	+63 59 13.8	19.2	N	K	157
C/2017 K2	2017 07 17.87223	17 21 32.93	+63 59 11.8	18.8	N	K	157
C/2017 K2	2017 07 17.88064	17 21 32.73	+63 59 10.8	19.2	N	K	157
C/2017 K2	2017 07 18.04140	17 21 28.23	+63 58 48.3	18.4	N		J22
C/2017 K2	2017 07 18.05376	17 21 27.90	+63 58 45.4	18.4	N		J22
C/2017 K2	2017 07 20.90707	17 20 10.47	+63 51 30.0	19.5	T	K	461
C/2017 K2	2017 07 20.91676	17 20 10.26	+63 51 27.7	19.5	T	K	461
C/2017 K2	2017 07 21.92694	17 19 43.81	+63 48 47.6	18.6	N		Z50
C/2017 K2	2017 07 21.93106	17 19 43.54	+63 48 46.6	18.4	N		Z50
C/2017 K2	2017 07 21.93514	17 19 43.50	+63 48 45.6	18.5	N		Z50
C/2017 K2	2017 07 21.96453	17 19 42.60	+63 48 41.3	17.7	N	K	J01
C/2017 K2	2017 07 21.97528	17 19 42.31	+63 48 39.6	18.0	N	K	J01
C/2017 K2	2017 07 21.98962	17 19 41.88	+63 48 37.2	18.3	N	K	J01
C/2017 K2	2017 07 25.91005	17 18 02.78	+63 37 39.7	18.0	N	K	970
C/2017 K2	2017 07 25.91842	17 18 02.75	+63 37 37.0	18.1	N	K	970
C/2017 K2	2017 07 25.94560	17 18 02.06	+63 37 32.8			K	461
C/2017 K2	2017 07 25.95529	17 18 01.86	+63 37 30.9	19.6	T	K	461
C/2017 K2	2017 07 26.98243	17 17 36.89	+63 34 30.6	18.6	N	K	213
C/2017 K2	2017 07 27.03567	17 17 35.62	+63 34 20.6	18.6	N	K	213
C/2017 K2	2017 07 27.07370	17 17 34.58	+63 34 14.6	18.9	N	K	213
C/2017 K2	2017 07 27.89150	17 17 15.58	+63 31 47.2	18.5	N		I72
C/2017 K2	2017 07 27.93398	17 17 14.46	+63 31 40.6	18.4	N		I72
C/2017 K2	2017 07 27.94203	17 17 14.25	+63 31 38.3	18.2	N	K	C23
C/2017 K2	2017 07 27.94489	17 17 14.16	+63 31 37.9	18.7	N	K	A77
C/2017 K2	2017 07 27.94563	17 17 14.17	+63 31 37.7	18.1	N	K	C23
C/2017 K2	2017 07 27.94924	17 17 13.96	+63 31 39.0	18.4	N	K	C23
C/2017 K2	2017 07 27.95479	17 17 14.01	+63 31 35.7	18.8	N		J01
C/2017 K2	2017 07 27.95713	17 17 13.92	+63 31 35.8	18.8	N	K	A77
C/2017 K2	2017 07 27.97918	17 17 13.53	+63 31 35.6	18.5	N		I72
C/2017 K2	2017 07 27.98686	17 17 13.18	+63 31 31.1	18.5	N		J01
C/2017 K2	2017 07 28.05095	17 17 11.82	+63 31 18.8	18.6	N		J01
C/2017 K2	2017 07 28.92454	17 16 51.45	+63 28 40.0	19.0	N		C95
C/2017 K2	2017 07 28.98153	17 16 50.19	+63 28 29.4	19.1	N		C95
C/2017 K2	2017 07 28.99567	17 16 49.82	+63 28 26.6	19.0	N		C95
C/2017 K2	2017 07 30.87658	17 16 07.64	+63 22 36.3	18.8	N	K	A77
C/2017 K2	2017 07 30.91114	17 16 06.64	+63 22 30.2	19.1	N	K	A77
C/2017 K2	2017 07 30.93971	17 16 06.17	+63 22 24.7	19.1	N	K	A77
C/2017 K2	2017 08 02.83012	17 15 04.57	+63 13 06.4	18.5	T		461
C/2017 K2	2017 08 02.83567	17 15 04.44	+63 13 05.2	19.2	T		461
C/2017 K2	2017 08 02.87772	17 15 03.50	+63 12 57.1	19.1	N	K	A77
C/2017 K2	2017 08 02.90663	17 15 02.97	+63 12 50.6	19.3	N	K	A77
C/2017 K2	2017 08 02.93267	17 15 02.54	+63 12 45.3	19.4	N	K	A77
C/2017 K2	2017 08 05.93302	17 14 02.84	+63 02 40.9	18.2	N	K	C23
C/2017 K2	2017 08 05.94024	17 14 02.94	+63 02 39.0	18.1	N	K	C23
C/2017 K2	2017 08 15.95646	17 11 18.52	+62 26 30.4	18.0	N	K	C23
C/2017 K2	2017 08 15.95935	17 11 18.64	+62 26 30.1	17.8	N	K	C23
C/2017 K2	2017 08 15.96223	17 11 18.36	+62 26 28.3	18.3	N	K	C23
C/2017 K2	2017 08 17.25582	17 11 01.381	+62 21 32.76	20.7	T		F51
C/2017 K2	2017 08 17.26876	17 11 01.174	+62 21 29.63	20.8	T		F51
C/2017 K2	2017 08 17.28169	17 11 01.030	+62 21 26.89	20.6	T		F51
C/2017 K2	2017 08 17.29464	17 11 00.831	+62 21 23.77	20.7	T		F51
C/2017 K2	2017 08 17.82643	17 10 53.91	+62 19 21.8	19.6	T		461
C/2017 K2	2017 08 17.85733	17 10 53.50	+62 19 14.7	19.2	T		461
C/2017 K2	2017 08 18.83639	17 10 41.47	+62 15 27.6	19.3	T		461
C/2017 K2	2017 08 18.86918	17 10 41.03	+62 15 20.0	19.1	T		461
C/2017 K2	2017 08 19.97088	17 10 28.01	+62 11 02.2	19.8	N	K	J01
C/2017 K2	2017 08 19.99910	17 10 27.68	+62 10 55.5	19.8	N	K	J01
C/2017 K2	2017 08 20.02732	17 10 27.31	+62 10 48.9	19.8	N	K	J01
C/2017 K2	2017 08 21.83393	17 10 07.39	+62 03 43.4	18.8	N	K	A77
C/2017 K2	2017 08 21.86772	17 10 07.11	+62 03 34.9	19.0	N	K	A77
C/2017 K2	2017 08 22.92979	17 09 56.23	+61 59 22.2	18.4	N	K	213
C/2017 K2	2017 08 22.94158	17 09 56.13	+61 59 20.0	18.8	N	K	213
C/2017 K2	2017 08 27.86132	17 09 14.45	+61 39 27.8	18.2	N	K	C23
C/2017 K2	2017 08 27.86853	17 09 14.24	+61 39 27.3	18.3	N	K	C23
C/2017 K2	2017 08 29.02109	17 09 06.33	+61 34 45.7	19.0	N		J22
C/2017 K2	2017 08 29.03962	17 09 06.28	+61 34 39.5	19.0	N		J22
C/2017 K2	2017 08 29.90132	17 09 00.65	+61 31 06.4	19.0	N		K77
C/2017 K2	2017 08 29.91226	17 09 00.58	+61 31 03.9	19.1	N		K77
C/2017 K2	2017 08 29.92301	17 09 00.56	+61 31 01.4	18.8	N		K77
C/2017 K2	2017 09 02.55436	17 08 42.44	+61 16 00.0	17.7	T	K	D95
C/2017 K2	2017 09 02.55864	17 08 42.52	+61 15 57.2			K	D95
C/2017 K2	2017 09 07.25675	17 08 29.467	+60 56 16.49	20.6	T		F51
C/2017 K2	2017 09 07.27113	17 08 29.396	+60 56 12.57	20.5	T		F51
C/2017 K2	2017 09 07.28552	17 08 29.397	+60 56 09.04	20.4	T		F51
C/2017 K2	2017 09 07.29992	17 08 29.368	+60 56 05.10	20.6	T		F51
C/2017 K2	2017 09 12.88505	17 08 29.24	+60 32 29.4	19.1	N		J01
C/2017 K2	2017 09 12.88977	17 08 29.18	+60 32 29.3	19.0	N		J22
C/2017 K2	2017 09 12.89611	17 08 29.25	+60 32 26.9	19.1	N		J01
C/2017 K2	2017 09 12.90664	17 08 29.30	+60 32 23.6	19.0	N		J01
C/2017 K2	2017 09 12.90852	17 08 29.17	+60 32 23.7	19.0	N		J22
C/2017 K2	2017 09 14.231212	17 08 31.658	+60 26 47.86	18.9	T		29 568
C/2017 K2	2017 09 14.240049	17 08 31.674	+60 26 45.57	18.9	T		29 568
C/2017 K2	2017 09 14.245595	17 08 31.688	+60 26 44.17	18.8	T		29 568
C/2017 K2	2017 09 14.252361	17 08 31.703	+60 26 42.43	18.9	T		29 568
C/2017 K2	2017 09 15.51475	17 08 34.65	+60 21 22.2	17.9	T	K	D95
C/2017 K2	2017 09 15.53383	17 08 34.83	+60 21 16.7			K	D95
C/2017 K2	2017 09 15.84469	17 08 35.55	+60 19 58.4	18.8	N		I88

C/2017 K2	2017 09 15.84616	17 08 35.64	+60 19 56.0	18.7	N	I88
C/2017 K2	2017 09 15.84763	17 08 35.77	+60 19 56.3	18.5	N	I88
C/2017 K2	2017 09 15.86878	17 08 35.86	+60 19 51.2	18.2	N	K C23
C/2017 K2	2017 09 15.87311	17 08 35.79	+60 19 50.1	18.2	N	K C23
C/2017 K2	2017 09 15.87744	17 08 35.68	+60 19 49.8	18.1	N	K C23
C/2017 K2	2017 09 18.53352	17 08 45.46	+60 08 36.0			K Q11
C/2017 K2	2017 09 18.54242	17 08 45.51	+60 08 33.9	17.6	T	K Q11
C/2017 K2	2017 09 25.78554	17 09 29.90	+59 38 11.1	18.3	N	K C23
C/2017 K2	2017 09 25.79131	17 09 30.11	+59 38 09.2	18.4	N	K C23
C/2017 K2	2017 09 25.79708	17 09 29.92	+59 38 09.1	18.4	N	K C23

P/2017 K3 (Gasparovic)

P/2017 K3	2017 07 15.25444	16 02 57.77	−27 17 54.7	19.7	T	2 F65
P/2017 K3	2017 07 15.29277	16 02 58.67	−27 17 52.6	19.7	T	2 F65
P/2017 K3	2017 07 15.32911	16 02 59.54	−27 17 50.5	19.7	T	2 F65
P/2017 K3	2017 07 18.11073	16 04 18.81	−27 15 19.4			3W88
P/2017 K3	2017 07 18.11925	16 04 18.99	−27 15 19.8	18.6	T	3W88
P/2017 K3	2017 07 18.44629	16 04 29.27	−27 15 04.2			1 Q62
P/2017 K3	2017 07 18.45114	16 04 29.43	−27 15 03.9			1 Q62
P/2017 K3	2017 07 18.45599	16 04 29.60	−27 15 03.5	18.5	T	1 Q62
P/2017 K3	2017 07 18.98865	16 04 46.59	−27 14 38.6	18.5	T	3W88
P/2017 K3	2017 07 19.06968	16 04 49.03	−27 14 35.0	18.5	T	3W88
P/2017 K3	2017 07 19.12873	16 04 50.86	−27 14 31.9	18.7	T	3W88
P/2017 K3	2017 07 19.17039	16 04 52.12	−27 14 29.0	18.6	T	3W88
P/2017 K3	2017 07 20.33040	16 05 30.92	−27 13 44.1	18.6	T	T08
P/2017 K3	2017 07 20.33867	16 05 31.17	−27 13 45.6	18.6	T	T08
P/2017 K3	2017 07 20.34694	16 05 31.24	−27 13 42.7	18.8	T	T08
P/2017 K3	2017 07 20.35567	16 05 31.69	−27 13 42.0	19.0	T	T08

C/2017 K4 (ATLAS)

C/2017 K4	2017 06 30.66388	16 49 55.33	−36 43 18.8	16.5	T	19 E10
C/2017 K4	2017 06 30.66544	16 49 55.29	−36 43 18.1	16.4	T	19 E10
C/2017 K4	2017 06 30.66698	16 49 55.23	−36 43 17.7	16.4	T	19 E10
C/2017 K4	2017 06 30.66853	16 49 55.15	−36 43 17.1	16.5	T	19 E10
C/2017 K4	2017 06 30.67008	16 49 55.11	−36 43 16.6	16.5	T	19 E10
C/2017 K4	2017 06 30.67162	16 49 55.09	−36 43 15.6	16.5	T	19 E10
C/2017 K4	2017 06 30.67317	16 49 55.03	−36 43 15.2	16.5	T	19 E10
C/2017 K4	2017 06 30.67472	16 49 54.97	−36 43 14.6	16.4	T	19 E10
C/2017 K4	2017 06 30.67627	16 49 54.93	−36 43 14.0	16.4	T	19 E10
C/2017 K4	2017 07 14.48125	16 44 27.83	−35 11 13.8			372
C/2017 K4	2017 07 14.48490	16 44 27.77	−35 11 12.4			372
C/2017 K4	2017 07 14.48924	16 44 27.68	−35 11 10.6	15.6	T	372
C/2017 K4	2017 07 16.49271	16 43 59.65	−34 57 08.9			372
C/2017 K4	2017 07 16.49625	16 43 59.59	−34 57 07.2			372
C/2017 K4	2017 07 16.52083	16 43 59.23	−34 56 57.1	15.5	T	372
C/2017 K4	2017 07 18.53634	16 43 36.77	−34 42 46.1	15.7	T	349
C/2017 K4	2017 07 18.54985	16 43 36.59	−34 42 40.7			349
C/2017 K4	2017 07 24.38478	16 43 04.03	−34 01 29.9	16.4	N	K E94
C/2017 K4	2017 07 24.42022	16 43 04.05	−34 01 13.0	16.4	N	K E94
C/2017 K4	2017 07 24.44294	16 43 04.06	−34 01 03.1	16.4	N	K E94
C/2017 K4	2017 07 26.34742	16 43 04.38	−33 47 44.2	16.2	T	T05
C/2017 K4	2017 07 26.35641	16 43 04.37	−33 47 40.6	16.1	T	T05
C/2017 K4	2017 07 26.36489	16 43 04.38	−33 47 36.9	16.1	T	T05
C/2017 K4	2017 07 26.37382	16 43 04.39	−33 47 33.0	16.1	T	T05
C/2017 K4	2017 08 01.31786	16 43 40.68	−33 06 17.9	16.0	T	T08
C/2017 K4	2017 08 01.32613	16 43 40.75	−33 06 14.2	16.0	T	T08
C/2017 K4	2017 08 01.33438	16 43 40.84	−33 06 10.7	16.0	T	T08
C/2017 K4	2017 08 01.34264	16 43 40.91	−33 06 07.5	15.9	T	T08
C/2017 K4	2017 08 05.34341	16 44 35.17	−32 38 58.3	16.0	T	T08
C/2017 K4	2017 08 05.35797	16 44 35.39	−32 38 52.3	15.7	T	T08
C/2017 K4	2017 08 05.36688	16 44 35.52	−32 38 48.5	15.9	T	T08
C/2017 K4	2017 08 06.36174	16 44 52.76	−32 32 09.5	16.0	T	T08
C/2017 K4	2017 08 06.36953	16 44 52.90	−32 32 06.8	15.7	T	T08
C/2017 K4	2017 08 06.37729	16 44 53.05	−32 32 03.3	15.7	T	T08
C/2017 K4	2017 08 06.38556	16 44 53.16	−32 31 59.8	15.9	T	T08
C/2017 K4	2017 08 08.36206	16 45 31.80	−32 18 54.6	16.4	T	T05
C/2017 K4	2017 08 08.36913	16 45 31.94	−32 18 51.9	16.2	T	T05
C/2017 K4	2017 08 08.37731	16 45 32.11	−32 18 48.4	16.2	T	T05
C/2017 K4	2017 08 09.48669	16 45 56.38	−32 11 33.5			K D81
C/2017 K4	2017 08 09.48878	16 45 56.53	−32 11 33.8			K D81
C/2017 K4	2017 08 09.49087	16 45 56.53	−32 11 32.6	15.5	T	K D81
C/2017 K4	2017 08 14.31311	16 48 02.29	−31 40 33.3	15.8	T	T08
C/2017 K4	2017 08 14.32090	16 48 02.50	−31 40 30.2	16.0	T	T08
C/2017 K4	2017 08 14.32920	16 48 02.74	−31 40 27.0	16.0	T	T08
C/2017 K4	2017 08 14.33804	16 48 02.99	−31 40 23.8	16.0	T	T08
C/2017 K4	2017 08 16.30101	16 49 03.83	−31 28 06.8	16.6	T	T05
C/2017 K4	2017 08 16.31147	16 49 04.15	−31 28 03.0	16.4	T	T05
C/2017 K4	2017 08 16.31990	16 49 04.42	−31 27 59.7	16.5	T	T05
C/2017 K4	2017 08 17.67596	16 49 49.68	−31 19 37.5	16.8	N	C97
C/2017 K4	2017 08 17.72986	16 49 51.45	−31 19 17.2	16.7	N	C97
C/2017 K4	2017 08 18.29759	16 50 11.24	−31 15 49.3	15.8	T	T08
C/2017 K4	2017 08 18.31474	16 50 11.81	−31 15 43.0	15.9	T	T08
C/2017 K4	2017 08 18.32301	16 50 12.09	−31 15 40.0	15.9	T	T08
C/2017 K4	2017 08 27.44956	16 56 30.05	−30 22 00.6	16.0	T	D95
C/2017 K4	2017 08 27.45172	16 56 30.10	−30 21 59.2			D95
C/2017 K4	2017 08 27.46035	16 56 30.52	−30 21 57.6			D95
C/2017 K4	2017 09 18.41504	17 18 38.98	−28 27 24.5			K D81
C/2017 K4	2017 09 18.42141	17 18 39.47	−28 27 21.4	15.3	T	K D81

C/2017 K5 (PANSTARRS)

C/2017 K5	2017 07 21.89515	17 37 37.00	+42 49 22.2			K 461
C/2017 K5	2017 07 21.91085	17 37 36.55	+42 49 17.7	21.0	T	K 461
C/2017 K5	2017 07 22.94441	17 37 11.88	+42 43 35.2	20.4	T	K 461
C/2017 K5	2017 07 22.95519	17 37 11.56	+42 43 31.8	20.8	T	K 461

C/2017 K6 (Jacques)

C/2017 K6	2017 07 15.29087	00 54 31.83	−69 25 48.7	17.1	N	W96
C/2017 K6	2017 07 15.32429	00 54 37.70	−69 26 20.5	17.1	N	W96
C/2017 K6	2017 07 18.37352	01 03 43.67	−70 14 03.8	17.5	N	3W88
C/2017 K6	2017 07 18.39255	01 03 46.93	−70 14 21.2	17.5	N	3W88
C/2017 K6	2017 07 20.71616	01 10 50.36	−70 49 59.8	18.0	N	19 E10
C/2017 K6	2017 07 20.75976	01 10 58.50	−70 50 39.4	17.6	N	19 E10
C/2017 K6	2017 07 24.37654	01 22 08.03	−71 44 37.3	17.4	N	K E94
C/2017 K6	2017 07 24.40186	01 22 13.15	−71 45 00.0	17.3	N	K E94
C/2017 K6	2017 07 24.41201	01 22 14.77	−71 45 08.6	17.3	N	K E94
C/2017 K6	2017 07 27.26534	01 31 10.73	−72 26 24.5	17.1	N	W96
C/2017 K6	2017 07 27.28886	01 31 15.06	−72 26 45.2	17.0	N	W96
C/2017 K6	2017 07 27.31144	01 31 19.18	−72 27 04.6	17.1	N	W96

C/2017 K6	2017 07 29.23956	01 37 25.06	−72 54 08.3	16.9	N		W96
C/2017 K6	2017 07 29.27293	01 37 31.18	−72 54 36.4	16.9	N		W96
C/2017 K6	2017 07 31.25421	01 43 48.87	−73 21 43.9	17.2	N		W96
C/2017 K6	2017 07 31.29264	01 43 56.15	−73 22 15.7	17.0	N		W96
C/2017 K6	2017 07 31.33251	01 44 03.49	−73 22 48.5	17.0	N		W96
C/2017 K6	2017 08 03.37468	01 53 45.88	−74 03 01.1	17.5	N		3W88
C/2017 K6	2017 08 03.38315	01 53 47.55	−74 03 07.9	17.6	N		3W88
C/2017 K6	2017 08 05.65373	02 01 02.90	−74 31 59.6	17.2	N	K	E94
C/2017 K6	2017 08 05.69466	02 01 10.69	−74 32 30.6	17.2	N	K	E94
C/2017 K6	2017 08 05.73522	02 01 18.35	−74 33 00.8	17.2	N	K	E94
C/2017 K6	2017 08 10.51990	02 16 30.61	−75 30 21.7	17.3	N		32Q62
C/2017 K6	2017 08 10.54019	02 16 34.56	−75 30 35.9	17.4	N		32Q62
C/2017 K6	2017 08 10.54298	02 16 35.13	−75 30 38.2	17.4	N		32Q62
C/2017 K6	2017 08 13.27281	02 25 06.35	−76 01 22.5	16.7	N		W96
C/2017 K6	2017 08 13.30075	02 25 11.42	−76 01 41.6	16.7	N		W96
C/2017 K6	2017 08 24.46616	02 57 31.19	−77 51 38.8	16.3	N		32Q62
C/2017 K6	2017 08 24.48915	02 57 34.88	−77 51 52.6	16.2	N		32Q62
C/2017 K6	2017 08 27.12006	03 04 13.59	−78 14 15.4	17.5	T		Y00
C/2017 K6	2017 08 27.13179	03 04 15.37	−78 14 21.3	17.2	T		Y00
C/2017 K6	2017 08 27.14356	03 04 17.03	−78 14 28.0	17.2	T		Y00
C/2017 K6	2017 09 01.34105	03 15 49.63	−78 54 47.1	17.1	N		3W88
C/2017 K6	2017 09 01.34391	03 15 49.87	−78 54 48.2	17.0	N		3W88
C/2017 K6	2017 09 01.35497	03 15 51.22	−78 54 53.2	17.1	N		3W88
C/2017 K6	2017 09 01.35776	03 15 51.67	−78 54 54.4	17.0	N		3W88
C/2017 K6	2017 09 11.22325	03 30 08.98	−79 57 47.0	16.4	N		KW96
C/2017 K6	2017 09 11.26685	03 30 10.82	−79 58 02.5	16.4	N		KW96
C/2017 K6	2017 09 13.13183	03 31 29.66	−80 07 49.9	15.7	T	K	I47
C/2017 K6	2017 09 13.13896	03 31 29.82	−80 07 52.6	15.7	T	K	I47
C/2017 K6	2017 09 13.15313	03 31 30.61	−80 07 57.5	15.7	T	K	I47
C/2017 K6	2017 09 16.31444	03 32 31.50	−80 23 05.9	16.8	N		3W88
C/2017 K6	2017 09 16.32476	03 32 31.43	−80 23 08.7	16.8	N		3W88
C/2017 K6	2017 09 16.32935	03 32 31.47	−80 23 10.3	16.8	N		3W88
C/2017 K6	2017 09 19.31121	03 32 03.82	−80 35 25.2	16.3	N		W96
C/2017 K6	2017 09 19.32552	03 32 03.44	−80 35 28.7	16.3	N		W96
C/2017 K6	2017 09 19.34059	03 32 02.83	−80 35 31.8	16.3	N		W96
C/2017 K6	2017 09 19.53093	03 31 59.18	−80 36 11.2	16.3	T	K	423
C/2017 K6	2017 09 19.56855	03 31 58.00	−80 36 20.0	16.4	T	K	423
C/2017 K6	2017 09 25.48394	03 26 31.42	−80 53 29.4	16.4	T	K	423
C/2017 K6	2017 09 25.50651	03 26 29.43	−80 53 32.7	16.3	T	K	423

C/2017 M3 (PANSTARRS)

C/2017 M3	2017 07 19.20169	12 15 47.04	+54 13 56.1				5 U69
C/2017 M3	2017 07 19.20548	12 15 47.10	+54 13 52.3				5 U69
C/2017 M3	2017 07 19.20928	12 15 47.21	+54 13 48.3	20.9	T		5 U69

C/2017 M4 (ATLAS)

C/2017 M4	2017 06 23.92047	21 37 31.08	+69 10 25.1	18.3	N		B96
C/2017 M4	2017 06 23.92375	21 37 30.73	+69 10 27.5	18.1	N		B96
C/2017 M4	2017 06 23.93038	21 37 29.90	+69 10 29.6	17.9	N		B96
C/2017 M4	2017 06 23.93528	21 37 29.31	+69 10 31.0	18.2	N		B96
C/2017 M4	2017 07 02.00741	21 22 06.35	+69 55 16.0	18.0	N	K	A71
C/2017 M4	2017 07 02.01332	21 22 05.56	+69 55 17.9	18.2	N	K	A71
C/2017 M4	2017 07 02.02072	21 22 04.64	+69 55 20.0	18.3	N	K	A71
C/2017 M4	2017 07 02.02811	21 22 03.70	+69 55 22.4	18.2	N	K	A71
C/2017 M4	2017 07 06.95122	21 11 17.56	+70 16 24.1				461
C/2017 M4	2017 07 06.96520	21 11 15.57	+70 16 26.8	17.8	T		461
C/2017 M4	2017 07 07.53023	21 09 57.56	+70 18 30.0	18.1	T		T08
C/2017 M4	2017 07 07.53865	21 09 56.29	+70 18 33.5	18.2	T		T08
C/2017 M4	2017 07 07.54807	21 09 55.12	+70 18 35.0	18.0	T		T08
C/2017 M4	2017 07 07.55701	21 09 53.87	+70 18 36.3	18.0	T		T08
C/2017 M4	2017 07 07.57405	21 09 51.326	+70 18 40.93	18.3	T		F51
C/2017 M4	2017 07 07.58441	21 09 49.844	+70 18 43.08	18.2	T		F51
C/2017 M4	2017 07 07.59475	21 09 48.454	+70 18 45.12	18.3	T		F51
C/2017 M4	2017 07 07.60508	21 09 46.977	+70 18 47.31	18.2	T		F51
C/2017 M4	2017 07 08.62832	21 07 23.99	+70 22 18.7	17.4	T		349
C/2017 M4	2017 07 08.64610	21 07 21.51	+70 22 22.4				349
C/2017 M4	2017 07 08.92630	21 06 42.06	+70 23 16.9	17.9	N		B96
C/2017 M4	2017 07 08.92956	21 06 41.55	+70 23 17.2	18.0	N		B96
C/2017 M4	2017 07 08.93446	21 06 40.87	+70 23 18.2	17.5	N		B96
C/2017 M4	2017 07 10.53734	21 02 50.516	+70 28 10.39	19.1	T		F51
C/2017 M4	2017 07 10.54978	21 02 48.713	+70 28 12.85	18.7	T		F51
C/2017 M4	2017 07 11.50678	21 00 28.92	+70 30 48.7	17.9	T		T08
C/2017 M4	2017 07 11.52667	21 00 26.21	+70 30 50.0	17.9	T		T08
C/2017 M4	2017 07 11.54547	21 00 23.23	+70 30 53.4	18.1	T		T08
C/2017 M4	2017 07 11.55147	21 00 22.45	+70 30 54.3	18.1	T		T08
C/2017 M4	2017 07 12.91440	20 57 00.08	+70 34 09.0	18.1	N		B96
C/2017 M4	2017 07 12.91766	20 56 59.77	+70 34 09.6	17.0	N		B96
C/2017 M4	2017 07 12.91929	20 56 59.40	+70 34 09.9	17.8	N		B96
C/2017 M4	2017 07 12.92094	20 56 58.84	+70 34 10.3	17.3	N		B96
C/2017 M4	2017 07 14.95541	20 51 50.34	+70 38 03.7	17.1	N		C23
C/2017 M4	2017 07 14.96119	20 51 49.39	+70 38 04.3	17.1	N		C23
C/2017 M4	2017 07 14.96551	20 51 48.74	+70 38 04.6	17.4	N		C23
C/2017 M4	2017 07 15.52516	20 50 22.78	+70 38 57.8	18.1	T		T08
C/2017 M4	2017 07 15.53887	20 50 20.37	+70 38 58.0	18.2	T		T08
C/2017 M4	2017 07 15.54719	20 50 18.96	+70 38 58.6	17.9	T		T08
C/2017 M4	2017 07 15.55598	20 50 17.88	+70 39 00.3	17.8	T		T08
C/2017 M4	2017 07 16.06616	20 48 59.11	+70 39 42.3	17.6	N		J22
C/2017 M4	2017 07 16.07409	20 48 57.60	+70 39 42.9	17.6	N		J22
C/2017 M4	2017 07 16.56024	20 47 41.82	+70 40 18.8	17.2	T		372
C/2017 M4	2017 07 16.56458	20 47 41.12	+70 40 19.1				372
C/2017 M4	2017 07 17.96340	20 44 01.70	+70 41 38.2	18.1	N	K	157
C/2017 M4	2017 07 17.96761	20 44 00.97	+70 41 38.4	17.7	N	K	157
C/2017 M4	2017 07 17.97182	20 44 00.25	+70 41 38.9	17.6	N	K	157
C/2017 M4	2017 07 17.97604	20 43 59.71	+70 41 39.1	17.9	N	K	157
C/2017 M4	2017 07 17.98025	20 43 58.92	+70 41 39.0	17.7	N	K	157
C/2017 M4	2017 07 17.98446	20 43 58.23	+70 41 39.3	17.9	N	K	157
C/2017 M4	2017 07 20.31034	20 37 47.57	+70 42 32.8	17.6	T		H45
C/2017 M4	2017 07 20.31299	20 37 47.11	+70 42 32.8	17.6	T		H45
C/2017 M4	2017 07 20.31483	20 37 46.85	+70 42 32.8	17.7	T		H45
C/2017 M4	2017 07 20.69267	20 36 46.27	+70 42 31.9			K	D81
C/2017 M4	2017 07 20.69572	20 36 45.50	+70 42 31.4			K	D81
C/2017 M4	2017 07 20.69801	20 36 45.14	+70 42 32.4	17.4	T	K	D81
C/2017 M4	2017 07 21.00549	20 35 55.75	+70 42 28.3	17.8	N	K	K02
C/2017 M4	2017 07 21.01321	20 35 54.55	+70 42 28.3	17.6	N	K	K02
C/2017 M4	2017 07 21.96645	20 33 20.38	+70 42 08.8	18.2	T		461
C/2017 M4	2017 07 21.96968	20 33 19.89	+70 42 08.3	18.3	T		461
C/2017 M4	2017 07 21.97291	20 33 19.24	+70 42 08.5	18.2	T		461

C/2017 M4	2017 07 21.97614	20 33 18.72	+70 42 08.3	18.2	T		461
C/2017 M4	2017 07 22.94184	20 30 42.59	+70 41 30.0	18.0	N		I72
C/2017 M4	2017 07 22.96122	20 30 39.25	+70 41 28.6	17.8	N		I72
C/2017 M4	2017 07 22.98692	20 30 35.07	+70 41 27.0	17.8	N		I72
C/2017 M4	2017 07 23.46630	20 29 16.50	+70 41 02.3	18.0	T		T08
C/2017 M4	2017 07 23.48432	20 29 13.67	+70 41 00.5	18.0	T		T08
C/2017 M4	2017 07 23.49454	20 29 11.87	+70 40 59.5	17.9	T		T08
C/2017 M4	2017 07 27.90818	20 17 09.25	+70 33 22.5	17.7	N		B96
C/2017 M4	2017 07 27.90981	20 17 09.10	+70 33 22.3	17.6	N		B96
C/2017 M4	2017 07 27.91146	20 17 08.78	+70 33 22.1	17.7	N		B96
C/2017 M4	2017 07 27.91309	20 17 08.48	+70 33 22.0	17.4	N		B96
C/2017 M4	2017 07 27.91472	20 17 08.25	+70 33 20.9	17.5	N		B96
C/2017 M4	2017 07 27.91635	20 17 07.88	+70 33 20.8	17.5	N		B96
C/2017 M4	2017 07 28.05962	20 16 44.23	+70 32 58.9	17.0	N		C23
C/2017 M4	2017 07 28.06395	20 16 43.52	+70 32 59.0	17.7	N		C23
C/2017 M4	2017 07 28.06683	20 16 43.13	+70 32 58.0	17.2	N		C23
C/2017 M4	2017 07 28.96821	20 14 15.43	+70 30 34.9	18.7	N	K	C47
C/2017 M4	2017 07 28.97189	20 14 14.88	+70 30 33.9	18.8	N	K	C47
C/2017 M4	2017 07 28.97558	20 14 14.25	+70 30 33.7	18.9	N	K	C47
C/2017 M4	2017 07 28.97927	20 14 13.65	+70 30 32.8	18.6	N	K	C47
C/2017 M4	2017 07 28.98296	20 14 13.02	+70 30 32.4	18.9	N	K	C47
C/2017 M4	2017 07 28.98665	20 14 12.46	+70 30 31.7	18.8	N	K	C47
C/2017 M4	2017 07 28.99034	20 14 11.76	+70 30 31.3	18.7	N	K	C47
C/2017 M4	2017 07 29.92909	20 11 38.43	+70 27 43.3	17.8	N	K	157
C/2017 M4	2017 07 29.93329	20 11 37.68	+70 27 42.6	17.9	N	K	157
C/2017 M4	2017 07 29.93749	20 11 37.00	+70 27 41.6	17.7	N	K	157
C/2017 M4	2017 07 29.94169	20 11 36.34	+70 27 41.0	17.7	N	K	157
C/2017 M4	2017 07 29.94642	20 11 35.56	+70 27 40.1	18.1	N	K	157
C/2017 M4	2017 07 30.00230	20 11 26.35	+70 27 29.4	19.1	N	K	C47
C/2017 M4	2017 07 30.00599	20 11 25.66	+70 27 28.4	18.8	N	K	C47
C/2017 M4	2017 07 30.00968	20 11 25.16	+70 27 27.7	18.3	N	K	C47
C/2017 M4	2017 07 30.01337	20 11 24.50	+70 27 27.2	18.9	N	K	C47
C/2017 M4	2017 07 30.01706	20 11 24.02	+70 27 26.3	18.1	N	K	C47
C/2017 M4	2017 07 30.02112	20 11 23.25	+70 27 26.1	19.0	N	K	C47
C/2017 M4	2017 07 30.88037	20 09 03.53	+70 24 34.2	17.7	N		J22
C/2017 M4	2017 07 30.88237	20 09 03.19	+70 24 33.5	17.7	N		J22
C/2017 M4	2017 07 30.88627	20 09 02.53	+70 24 32.1	17.7	N		J22
C/2017 M4	2017 07 30.92490	20 08 56.09	+70 24 25.5	17.7	N	K	970
C/2017 M4	2017 07 30.92870	20 08 55.45	+70 24 24.7	17.7	N	K	970
C/2017 M4	2017 07 31.46497	20 07 27.97	+70 22 30.3	17.9	T		T08
C/2017 M4	2017 07 31.47517	20 07 26.44	+70 22 27.9	17.8	T		T08
C/2017 M4	2017 07 31.47713	20 07 26.01	+70 22 27.6	17.9	T		T08
C/2017 M4	2017 08 02.89449	20 00 55.47	+70 12 37.8	18.0	N		461
C/2017 M4	2017 08 02.89726	20 00 55.04	+70 12 37.1	17.6	N		461
C/2017 M4	2017 08 02.89865	20 00 54.80	+70 12 36.9	17.8	N		461
C/2017 M4	2017 08 02.90003	20 00 54.61	+70 12 36.4	17.7	N		461
C/2017 M4	2017 08 02.90142	20 00 54.36	+70 12 36.2	18.0	N		461
C/2017 M4	2017 08 02.90419	20 00 53.88	+70 12 35.4	17.9	N		461
C/2017 M4	2017 08 02.90558	20 00 53.71	+70 12 35.1	18.0	N		461
C/2017 M4	2017 08 04.40917	19 56 53.70	+70 05 28.5	17.9	T		T08
C/2017 M4	2017 08 04.41543	19 56 52.556	+70 05 26.83	18.4	T		F51
C/2017 M4	2017 08 04.42776	19 56 50.76	+70 05 23.9	17.8	T		T08
C/2017 M4	2017 08 04.42862	19 56 50.508	+70 05 22.92	18.5	T		F51
C/2017 M4	2017 08 04.43757	19 56 48.91	+70 05 19.5	17.8	T		T08
C/2017 M4	2017 08 04.43903	19 56 48.97	+70 05 19.9	17.9	T		T08
C/2017 M4	2017 08 04.45491	19 56 46.221	+70 05 14.88	18.7	T		F51
C/2017 M4	2017 08 05.90778	19 52 57.24	+69 57 38.1	17.6	N		B96
C/2017 M4	2017 08 05.90941	19 52 56.83	+69 57 37.3	17.4	N		B96
C/2017 M4	2017 08 05.91104	19 52 56.57	+69 57 37.0	17.3	N		B96
C/2017 M4	2017 08 05.91267	19 52 56.30	+69 57 36.8	17.5	N		B96
C/2017 M4	2017 08 05.91594	19 52 55.68	+69 57 35.0	17.6	N		B96
C/2017 M4	2017 08 05.95731	19 52 49.35	+69 57 21.8	17.5	N	K	C23
C/2017 M4	2017 08 05.96092	19 52 48.46	+69 57 20.7	17.3	N	K	C23
C/2017 M4	2017 08 05.96597	19 52 47.87	+69 57 18.3	16.7	N	K	C23
C/2017 M4	2017 08 08.93515	19 45 09.21	+69 39 34.4	17.4	N		I72
C/2017 M4	2017 08 08.96992	19 45 03.89	+69 39 20.6	17.4	N		I72
C/2017 M4	2017 08 08.99775	19 44 59.69	+69 39 09.6	17.3	N		I72
C/2017 M4	2017 08 09.09912	19 44 43.87	+69 38 28.3	17.8	N		Z17
C/2017 M4	2017 08 09.10934	19 44 42.35	+69 38 25.1	17.5	N		Z17
C/2017 M4	2017 08 09.11943	19 44 40.84	+69 38 21.1	18.0	N		Z17
C/2017 M4	2017 08 09.40927	19 43 57.03	+69 36 28.1	18.1	T		T08
C/2017 M4	2017 08 09.42017	19 43 55.27	+69 36 23.5	17.6	T		T08
C/2017 M4	2017 08 09.42068	19 43 55.24	+69 36 23.7	17.8	T		T08
C/2017 M4	2017 08 09.43841	19 43 52.56	+69 36 15.6	17.6	T		T08
C/2017 M4	2017 08 09.59920	19 43 28.32	+69 35 10.9	17.9	T		D29
C/2017 M4	2017 08 09.59997	19 43 28.29	+69 35 10.8	17.7	T		D29
C/2017 M4	2017 08 09.61533	19 43 25.92	+69 35 04.0	17.2	T		D29
C/2017 M4	2017 08 09.61610	19 43 25.74	+69 35 05.3	18.0	T		D29
C/2017 M4	2017 08 09.63146	19 43 23.39	+69 34 57.5	17.7	T		D29
C/2017 M4	2017 08 09.63223	19 43 23.18	+69 34 58.7	17.9	T		D29
C/2017 M4	2017 08 09.89273	19 42 44.30	+69 33 13.2	17.7	N	9	G40
C/2017 M4	2017 08 09.90110	19 42 43.06	+69 33 09.3	17.5	N	9	G40
C/2017 M4	2017 08 12.57514	19 36 07.51	+69 13 54.6				900
C/2017 M4	2017 08 12.58229	19 36 06.53	+69 13 51.7	17.4	T		900
C/2017 M4	2017 08 13.40949	19 34 07.27	+69 07 27.0	17.6	T		T08
C/2017 M4	2017 08 13.41000	19 34 07.23	+69 07 26.3	17.8	T		T08
C/2017 M4	2017 08 13.42039	19 34 05.72	+69 07 21.5	17.7	T		T08
C/2017 M4	2017 08 13.42141	19 34 05.54	+69 07 21.3	17.7	T		T08
C/2017 M4	2017 08 13.98190	19 32 45.50	+69 02 53.3	17.6	N		J22
C/2017 M4	2017 08 13.98579	19 32 44.84	+69 02 51.2	17.6	N		J22
C/2017 M4	2017 08 13.98965	19 32 44.38	+69 02 49.5	17.6	N		J22
C/2017 M4	2017 08 14.81184	19 30 48.48	+68 56 05.8	17.8	N		107
C/2017 M4	2017 08 14.82189	19 30 47.06	+68 56 00.6	17.5	N		107
C/2017 M4	2017 08 14.83194	19 30 45.78	+68 55 55.4	17.2	N		107
C/2017 M4	2017 08 14.96609	19 30 26.71	+68 54 47.7	17.4	N	K	K61
C/2017 M4	2017 08 14.96747	19 30 26.77	+68 54 46.1	17.4	N	K	K61
C/2017 M4	2017 08 15.96788	19 28 07.88	+68 46 17.0	17.6	N		C23
C/2017 M4	2017 08 15.96932	19 28 07.59	+68 46 16.7	17.7	N		C23
C/2017 M4	2017 08 15.97221	19 28 07.21	+68 46 15.3	17.0	N		C23
C/2017 M4	2017 08 17.39228	19 24 54.35	+68 33 41.3	17.4	T		T08
C/2017 M4	2017 08 17.40222	19 24 53.03	+68 33 35.9	17.8	T		T08
C/2017 M4	2017 08 17.41207	19 24 51.81	+68 33 30.6	17.6	T		T08
C/2017 M4	2017 08 17.41415	19 24 51.45	+68 33 29.2	17.7	T		T08
C/2017 M4	2017 08 17.83076	19 23 55.94	+68 29 40.7	17.8	N		461
C/2017 M4	2017 08 17.83400	19 23 55.47	+68 29 38.9	17.5	N		461
C/2017 M4	2017 08 17.83723	19 23 55.02	+68 29 37.1	17.6	N		461

C/2017 M4	2017 08 17.84047	19 23 54.61	+68 29 35.5	17.9	N		461
C/2017 M4	2017 08 17.91398	19 23 45.08	+68 28 54.8	17.6	T		Z22
C/2017 M4	2017 08 17.91904	19 23 44.21	+68 28 52.0	17.7	T		Z22
C/2017 M4	2017 08 17.92466	19 23 43.48	+68 28 49.0	18.1	T		Z22
C/2017 M4	2017 08 18.32280	19 22 50.728	+68 25 07.47	19.0	T		F51
C/2017 M4	2017 08 18.33741	19 22 48.780	+68 24 59.27	19.0	T		F51
C/2017 M4	2017 08 18.35205	19 22 46.829	+68 24 51.05	19.0	T		F51
C/2017 M4	2017 08 18.36669	19 22 44.886	+68 24 42.86	18.8	T		F51
C/2017 M4	2017 08 18.84070	19 21 42.86	+68 20 15.0	17.4	N		461
C/2017 M4	2017 08 18.84232	19 21 42.64	+68 20 14.1	17.9	N		461
C/2017 M4	2017 08 18.84393	19 21 42.39	+68 20 13.2	17.7	N		461
C/2017 M4	2017 08 18.84555	19 21 42.19	+68 20 12.2	17.9	N		461
C/2017 M4	2017 08 18.84717	19 21 41.96	+68 20 11.4	17.7	N		461
C/2017 M4	2017 08 18.84879	19 21 41.75	+68 20 10.5	17.8	N		461
C/2017 M4	2017 08 18.85040	19 21 41.53	+68 20 09.5	17.7	N		461
C/2017 M4	2017 08 18.86631	19 21 39.45	+68 20 00.1	18.2	N		L01
C/2017 M4	2017 08 18.86900	19 21 39.10	+68 19 58.5	18.1	N		L01
C/2017 M4	2017 08 19.39712	19 20 30.63	+68 14 56.3	18.0	T		T05
C/2017 M4	2017 08 19.40691	19 20 29.37	+68 14 50.3	18.1	T		T05
C/2017 M4	2017 08 19.40739	19 20 29.25	+68 14 50.0	17.8	T		T05
C/2017 M4	2017 08 20.90827	19 17 18.67	+68 00 02.7	17.5	N	K	K25
C/2017 M4	2017 08 20.91742	19 17 17.50	+67 59 57.6	17.5	N	K	K25
C/2017 M4	2017 08 20.97461	19 17 10.06	+67 59 23.2	17.8	N		J22
C/2017 M4	2017 08 20.98058	19 17 09.62	+67 59 20.7	17.8	N		J22
C/2017 M4	2017 08 20.98255	19 17 09.36	+67 59 18.7	17.8	N		J22
C/2017 M4	2017 08 21.91786	19 15 13.77	+67 49 46.0	17.5	N	K	K25
C/2017 M4	2017 08 21.92854	19 15 12.41	+67 49 39.5	17.6	N	K	K25
C/2017 M4	2017 08 22.90201	19 13 14.67	+67 39 29.5	17.5	T		106
C/2017 M4	2017 08 22.91223	19 13 13.43	+67 39 23.1	17.4	T		106
C/2017 M4	2017 08 22.92245	19 13 12.26	+67 39 16.4	17.2	T		106
C/2017 M4	2017 08 22.93268	19 13 10.99	+67 39 10.0	17.5	T		106
C/2017 M4	2017 08 23.37899	19 12 17.92	+67 34 25.5	18.2	T		T05
C/2017 M4	2017 08 23.37947	19 12 17.88	+67 34 25.2	18.1	T		T05
C/2017 M4	2017 08 23.38939	19 12 16.69	+67 34 18.5	17.8	T		T05
C/2017 M4	2017 08 23.40821	19 12 14.33	+67 34 06.5	17.9	T		T05
C/2017 M4	2017 08 25.35879	19 08 28.841	+67 12 45.80	18.3	T		F51
C/2017 M4	2017 08 25.37242	19 08 27.274	+67 12 36.55	18.3	T		F51
C/2017 M4	2017 08 25.38623	19 08 25.694	+67 12 27.33	18.5	T		F51
C/2017 M4	2017 08 25.38821	19 08 25.61	+67 12 25.7	17.3	T		T08
C/2017 M4	2017 08 25.38922	19 08 25.47	+67 12 25.2	17.3	T		T08
C/2017 M4	2017 08 25.39875	19 08 24.38	+67 12 18.8	17.6	T		T08
C/2017 M4	2017 08 25.39974	19 08 24.34	+67 12 18.5	17.2	T		T08
C/2017 M4	2017 08 25.39986	19 08 24.147	+67 12 17.98	18.5	T		F51
C/2017 M4	2017 08 25.94847	19 07 22.71	+67 06 06.7	17.2	N	K	970
C/2017 M4	2017 08 25.95574	19 07 21.90	+67 06 02.0	17.5	N	K	970
C/2017 M4	2017 08 27.36468	19 04 47.97	+66 49 50.8	17.1	T		T05
C/2017 M4	2017 08 27.37434	19 04 46.93	+66 49 44.3	17.4	T		T05
C/2017 M4	2017 08 27.37577	19 04 46.78	+66 49 43.2	17.3	T		T05
C/2017 M4	2017 08 27.39234	19 04 44.96	+66 49 31.3	17.8	T		T05
C/2017 M4	2017 08 27.88402	19 03 52.64	+66 43 46.2	17.0	N		C23
C/2017 M4	2017 08 27.88835	19 03 52.18	+66 43 42.1	17.0	N		C23
C/2017 M4	2017 08 27.89267	19 03 51.70	+66 43 40.3	16.5	N		C23
C/2017 M4	2017 08 28.93185	19 02 03.29	+66 31 17.7	16.3	N	K	I81
C/2017 M4	2017 08 28.93612	19 02 02.86	+66 31 14.8	16.3	N	K	I81
C/2017 M4	2017 08 28.94039	19 02 02.43	+66 31 11.9	17.4	N	K	I81
C/2017 M4	2017 08 29.93024	19 00 21.71	+66 19 12.4	17.6	N		K77
C/2017 M4	2017 08 29.93741	19 00 21.04	+66 19 07.1	17.6	N		K77
C/2017 M4	2017 08 29.94457	19 00 20.34	+66 19 01.9	17.6	N		K77
C/2017 M4	2017 08 30.04157	19 00 10.88	+66 17 50.1	17.7	N		J22
C/2017 M4	2017 08 30.04346	19 00 10.78	+66 17 49.5	17.7	N		J22
C/2017 M4	2017 08 30.04723	19 00 10.50	+66 17 47.1	17.7	N		J22
C/2017 M4	2017 08 30.57180	18 59 18.18	+66 11 19.4				900
C/2017 M4	2017 08 30.57894	18 59 17.46	+66 11 14.2	17.3	T		900
C/2017 M4	2017 09 01.98093	18 55 29.44	+65 40 59.9	17.7	N		I72
C/2017 M4	2017 09 02.02667	18 55 25.32	+65 40 24.2	17.8	N		I72
C/2017 M4	2017 09 02.07282	18 55 21.05	+65 39 48.5	17.8	N		I72
C/2017 M4	2017 09 02.35919	18 54 54.90	+65 36 06.9	17.6	T		T08
C/2017 M4	2017 09 02.35969	18 54 54.91	+65 36 07.1	17.6	T		T08
C/2017 M4	2017 09 02.36166	18 54 54.66	+65 36 05.8	17.2	T		T08
C/2017 M4	2017 09 02.61303	18 54 31.95	+65 32 49.7	17.1	T		D95
C/2017 M4	2017 09 02.61519	18 54 31.71	+65 32 48.1				D95
C/2017 M4	2017 09 02.62813	18 54 30.51	+65 32 37.8				D95
C/2017 M4	2017 09 02.99309	18 53 57.93	+65 27 53.9	17.5	N	K	K02
C/2017 M4	2017 09 03.00083	18 53 57.28	+65 27 47.5	17.6	N	K	K02
C/2017 M4	2017 09 03.02342	18 53 55.26	+65 27 29.3	18.0	N		I81
C/2017 M4	2017 09 03.02769	18 53 54.93	+65 27 26.7	17.2	N		I81
C/2017 M4	2017 09 03.03053	18 53 54.66	+65 27 24.7	17.3	N		I81
C/2017 M4	2017 09 04.33324	18 52 01.38	+65 10 18.0	17.8	T		T05
C/2017 M4	2017 09 04.34281	18 52 00.55	+65 10 10.3	17.7	T		T05
C/2017 M4	2017 09 04.36028	18 51 59.03	+65 09 56.7	17.4	T		T05
C/2017 M4	2017 09 04.37772	18 51 57.61	+65 09 41.8	17.2	T		T05
C/2017 M4	2017 09 04.38004	18 51 57.43	+65 09 40.6	17.8	T		T05
C/2017 M4	2017 09 04.99248	18 51 05.86	+65 01 30.0	16.9	N		I81
C/2017 M4	2017 09 04.99674	18 51 05.47	+65 01 26.8	16.9	N		I81
C/2017 M4	2017 09 04.99958	18 51 05.24	+65 01 24.5	16.8	N		I81
C/2017 M4	2017 09 07.31701	18 47 59.210	+64 29 59.07	18.4	T		F51
C/2017 M4	2017 09 07.33069	18 47 58.151	+64 29 47.73	18.4	T		F51
C/2017 M4	2017 09 07.34445	18 47 57.082	+64 29 36.22	18.3	T		F51
C/2017 M4	2017 09 07.97045	18 47 09.36	+64 20 56.5	17.2	N	K	585
C/2017 M4	2017 09 07.97117	18 47 09.31	+64 20 55.9	17.2	N	K	585
C/2017 M4	2017 09 07.97203	18 47 09.20	+64 20 55.2	17.3	N	K	585
C/2017 M4	2017 09 07.97290	18 47 09.17	+64 20 54.5	17.3	N	K	585
C/2017 M4	2017 09 07.97416	18 47 09.04	+64 20 53.3	17.1	N	K	585
C/2017 M4	2017 09 07.97461	18 47 09.02	+64 20 53.1	17.3	N	K	585
C/2017 M4	2017 09 07.97546	18 47 08.93	+64 20 52.2	17.0	N	K	585
C/2017 M4	2017 09 07.97617	18 47 08.88	+64 20 51.5	17.2	N	K	585
C/2017 M4	2017 09 07.97724	18 47 08.80	+64 20 50.6	17.1	N	K	585
C/2017 M4	2017 09 07.97759	18 47 08.78	+64 20 50.3	17.2	N	K	585
C/2017 M4	2017 09 07.97845	18 47 08.71	+64 20 49.6	17.2	N	K	585
C/2017 M4	2017 09 08.32725	18 46 42.68	+64 16 00.2	17.2	T		T05
C/2017 M4	2017 09 08.32908	18 46 42.53	+64 15 59.0	17.7	T		T05
C/2017 M4	2017 09 08.34448	18 46 41.38	+64 15 46.3	17.2	T		T05
C/2017 M4	2017 09 09.86937	18 44 50.88	+63 54 23.1	17.4	N		J22
C/2017 M4	2017 09 09.87337	18 44 50.63	+63 54 19.7	17.4	N		J22
C/2017 M4	2017 09 09.87733	18 44 50.37	+63 54 16.4	17.4	N		J22
C/2017 M4	2017 09 10.00836	18 44 41.01	+63 52 23.5	17.5	N		K02

C/2017 M4	2017 09 10.01128	18 44 40.90	+63 52 22.4	17.4	N		K02
C/2017 M4	2017 09 11.94304	18 42 30.11	+63 24 46.1	17.0	N	K	585
C/2017 M4	2017 09 11.94376	18 42 30.23	+63 24 45.9	17.2	N	K	585
C/2017 M4	2017 09 11.94449	18 42 30.10	+63 24 45.4	17.1	N	K	585
C/2017 M4	2017 09 11.94522	18 42 30.06	+63 24 45.0	17.2	N	K	585
C/2017 M4	2017 09 11.94595	18 42 29.98	+63 24 44.0	17.3	N	K	585
C/2017 M4	2017 09 11.94669	18 42 29.92	+63 24 42.9	17.1	N	K	585
C/2017 M4	2017 09 11.94816	18 42 29.85	+63 24 41.7	17.1	N	K	585
C/2017 M4	2017 09 11.94890	18 42 29.88	+63 24 41.7	16.9	N	K	585
C/2017 M4	2017 09 11.94963	18 42 29.76	+63 24 40.5	16.9	N	K	585
C/2017 M4	2017 09 11.95037	18 42 29.78	+63 24 40.1	16.9	N	K	585
C/2017 M4	2017 09 11.95112	18 42 29.65	+63 24 39.2	17.0	N	K	585
C/2017 M4	2017 09 11.95187	18 42 29.60	+63 24 38.3	16.9	N	K	585
C/2017 M4	2017 09 13.55001	18 40 48.68	+63 01 27.5			K	D81
C/2017 M4	2017 09 13.55459	18 40 48.24	+63 01 24.5			K	D81
C/2017 M4	2017 09 13.55917	18 40 48.04	+63 01 20.7			K	D81
C/2017 M4	2017 09 13.56375	18 40 47.65	+63 01 16.1	17.4	T	K	D81
C/2017 M4	2017 09 13.81164	18 40 32.70	+62 57 38.0	17.1	N	K	A77
C/2017 M4	2017 09 13.81816	18 40 32.25	+62 57 32.6	17.3	N	K	A77
C/2017 M4	2017 09 13.82509	18 40 31.87	+62 57 26.3	17.3	N	K	A77
C/2017 M4	2017 09 13.85223	18 40 30.37	+62 57 04.7	17.4	N		I72
C/2017 M4	2017 09 13.86990	18 40 29.29	+62 56 48.4	17.7	N		I72
C/2017 M4	2017 09 13.88678	18 40 28.23	+62 56 33.3	17.7	N		I72
C/2017 M4	2017 09 15.00333	18 39 22.07	+62 40 05.7	17.8	N	K	K02
C/2017 M4	2017 09 15.00797	18 39 21.91	+62 40 02.2	17.4	N	K	K02
C/2017 M4	2017 09 15.01263	18 39 21.62	+62 39 57.8	17.2	N	K	K02
C/2017 M4	2017 09 15.64085	18 38 45.92	+62 30 39.9	16.7	T		D95
C/2017 M4	2017 09 15.64301	18 38 45.70	+62 30 37.8				D95
C/2017 M4	2017 09 15.64948	18 38 45.37	+62 30 32.3				D95
C/2017 M4	2017 09 15.87351	18 38 33.01	+62 27 14.6	17.8	N		I72
C/2017 M4	2017 09 15.89312	18 38 31.88	+62 26 55.8	16.9	N		C23
C/2017 M4	2017 09 15.89745	18 38 31.59	+62 26 51.9	17.0	N		C23
C/2017 M4	2017 09 15.90178	18 38 31.42	+62 26 48.3	17.0	N		C23
C/2017 M4	2017 09 15.90523	18 38 31.21	+62 26 46.0	17.8	N		I72
C/2017 M4	2017 09 15.92784	18 38 29.96	+62 26 25.7	17.8	N		I72
C/2017 M4	2017 09 17.04823	18 37 29.09	+62 09 40.6	17.6	N		J22
C/2017 M4	2017 09 17.05221	18 37 28.87	+62 09 38.4	17.6	N		J22
C/2017 M4	2017 09 17.05617	18 37 28.51	+62 09 34.9	17.6	N		J22
C/2017 M4	2017 09 17.24532	18 37 18.923	+62 06 45.01	18.5	T		F51
C/2017 M4	2017 09 17.25718	18 37 18.284	+62 06 34.33	18.5	T		F51
C/2017 M4	2017 09 17.26903	18 37 17.648	+62 06 23.62	18.6	T		F51
C/2017 M4	2017 09 17.28089	18 37 17.016	+62 06 12.87	18.5	T		F51
C/2017 M4	2017 09 17.69388	18 36 55.61	+62 00 01.1	17.6	N		C97
C/2017 M4	2017 09 17.69547	18 36 55.49	+61 59 58.7	17.6	N		C97
C/2017 M4	2017 09 17.69707	18 36 55.29	+61 59 57.0	17.8	N		C97
C/2017 M4	2017 09 17.69867	18 36 55.36	+61 59 56.7	17.7	N		C97
C/2017 M4	2017 09 17.70026	18 36 55.27	+61 59 54.6	17.8	N		C97
C/2017 M4	2017 09 18.27520	18 36 26.28	+61 51 15.0	17.4	T		T08
C/2017 M4	2017 09 18.28491	18 36 25.79	+61 51 06.3	17.6	T		T08
C/2017 M4	2017 09 18.30124	18 36 25.01	+61 50 51.4	17.1	T		T08
C/2017 M4	2017 09 18.30541	18 36 24.79	+61 50 47.3	17.2	T		T08
C/2017 M4	2017 09 18.57606	18 36 11.19	+61 46 41.2	16.4	T	K	Q11
C/2017 M4	2017 09 18.58209	18 36 10.84	+61 46 35.6			K	Q11
C/2017 M4	2017 09 18.90805	18 35 55.00	+61 41 39.7	17.5	N	K	A77
C/2017 M4	2017 09 18.91386	18 35 54.77	+61 41 34.5	17.5	N	K	A77
C/2017 M4	2017 09 18.92011	18 35 54.45	+61 41 28.7	17.5	N	K	A77
C/2017 M4	2017 09 19.88444	18 35 08.80	+61 26 50.6	16.8	N		I81
C/2017 M4	2017 09 19.89154	18 35 08.43	+61 26 43.6	16.5	N		I81
C/2017 M4	2017 09 19.89722	18 35 08.19	+61 26 38.5	16.8	N		I81
C/2017 M4	2017 09 21.76835	18 33 45.48	+60 58 01.0	18.0	N	K	K87
C/2017 M4	2017 09 21.77631	18 33 45.20	+60 57 53.6	18.0	N	K	K87
C/2017 M4	2017 09 21.78427	18 33 44.82	+60 57 46.1	18.0	N	K	K87
C/2017 M4	2017 09 21.79542	18 33 44.29	+60 57 36.4	18.1	N	K	K87
C/2017 M4	2017 09 21.91156	18 33 39.46	+60 55 48.9	16.8	N		I81
C/2017 M4	2017 09 21.92150	18 33 39.01	+60 55 39.5	16.4	N		I81
C/2017 M4	2017 09 21.92433	18 33 38.93	+60 55 36.8	16.4	N		I81
C/2017 M4	2017 09 22.86966	18 33 00.31	+60 41 03.3	17.5	N		B96
C/2017 M4	2017 09 22.87131	18 33 00.22	+60 41 01.8	17.2	N		B96
C/2017 M4	2017 09 22.87294	18 33 00.22	+60 41 00.2	17.5	N		B96
C/2017 M4	2017 09 22.87457	18 33 00.14	+60 40 58.7	17.4	N		B96
C/2017 M4	2017 09 22.87620	18 33 00.02	+60 40 57.2	17.4	N		B96
C/2017 M4	2017 09 22.87784	18 32 59.96	+60 40 55.6	17.4	N		B96
C/2017 M4	2017 09 22.97208	18 32 56.10	+60 39 27.6	18.1	N	K	C47
C/2017 M4	2017 09 22.97614	18 32 56.02	+60 39 23.5	18.5	N	K	C47
C/2017 M4	2017 09 22.98020	18 32 55.86	+60 39 20.5	18.6	N	K	C47
C/2017 M4	2017 09 22.98426	18 32 55.66	+60 39 16.1	18.8	N	K	C47
C/2017 M4	2017 09 22.98832	18 32 55.55	+60 39 12.5	18.5	N	K	C47
C/2017 M4	2017 09 22.99237	18 32 55.39	+60 39 08.9	18.9	N	K	C47
C/2017 M4	2017 09 23.86049	18 32 21.85	+60 25 43.3	17.3	N		B96
C/2017 M4	2017 09 23.86212	18 32 21.82	+60 25 42.2	17.7	N		B96
C/2017 M4	2017 09 23.86539	18 32 21.67	+60 25 38.9	17.6	N		B96
C/2017 M4	2017 09 24.82816	18 31 46.32	+60 10 43.1	17.0	N		C23
C/2017 M4	2017 09 24.83248	18 31 46.20	+60 10 38.7	17.1	N		C23
C/2017 M4	2017 09 24.83681	18 31 46.05	+60 10 34.4	17.2	N		C23
C/2017 M4	2017 09 24.85481	18 31 45.38	+60 10 17.4	17.6	N		B96
C/2017 M4	2017 09 24.85645	18 31 45.35	+60 10 16.1	17.5	N		B96
C/2017 M4	2017 09 24.85809	18 31 45.32	+60 10 14.8	17.4	N		B96
C/2017 M4	2017 09 24.85972	18 31 45.16	+60 10 13.1	17.5	N		B96
C/2017 M4	2017 09 24.86135	18 31 45.16	+60 10 11.4	17.4	N		B96
C/2017 M4	2017 09 24.86299	18 31 45.14	+60 10 10.1	17.5	N		B96
C/2017 M4	2017 09 25.83628	18 31 11.41	+59 55 01.5	17.5	N		J22
C/2017 M4	2017 09 25.84028	18 31 11.24	+59 54 57.4	17.5	N		J22
C/2017 M4	2017 09 25.84424	18 31 11.12	+59 54 54.0	17.5	N		J22
C/2017 M4	2017 09 26.88841	18 30 37.03	+59 38 36.2	17.5	N		I72
C/2017 M4	2017 09 26.91032	18 30 36.31	+59 38 15.8	17.5	N		I72
C/2017 M4	2017 09 26.93190	18 30 35.62	+59 37 55.4	17.4	N		I72
C/2017 M4	2017 09 27.92591	18 30 05.25	+59 22 21.0			9	G40
C/2017 M4	2017 09 27.93627	18 30 04.91	+59 22 11.2	17.1	N	9	G40
C/2017 M4	2017 09 29.95346	18 29 09.10	+58 50 30.2	16.9	N	K	C47
C/2017 M4	2017 09 29.95715	18 29 09.01	+58 50 25.8	16.9	N	K	C47
C/2017 M4	2017 09 29.96084	18 29 08.81	+58 50 21.9	17.8	N	K	C47
C/2017 M4	2017 09 29.96453	18 29 08.73	+58 50 19.0	17.8	N	K	C47
C/2017 M4	2017 09 29.96822	18 29 08.71	+58 50 16.0	18.1	N	K	C47
C/2017 M4	2017 09 29.97191	18 29 08.61	+58 50 11.9	17.7	N	K	C47

C/2017 M5 (TOTAS)

C/2017 M5	2017 07 15.34321	18 22 53.41	−06 39 10.2	19.2	T	2	F65
C/2017 M5	2017 07 15.40519	18 22 52.25	−06 39 10.9	19.1	T	2	F65
C/2017 M5	2017 07 19.94967	18 21 33.19	−06 40 31.0	18.2	T	K	585
C/2017 M5	2017 07 19.95038	18 21 33.18	−06 40 31.3	18.3	T	K	585
C/2017 M5	2017 07 19.95109	18 21 33.20	−06 40 30.9	19.3	N	K	585
C/2017 M5	2017 07 19.95215	18 21 33.15	−06 40 31.5	19.0	N	K	585
C/2017 M5	2017 07 19.95357	18 21 33.11	−06 40 31.5	19.2	N	K	585
C/2017 M5	2017 07 19.95570	18 21 33.11	−06 40 31.6	19.2	N	K	585
C/2017 M5	2017 07 20.922063	18 21 17.154	−06 40 56.29	18.6	T	K	J04
C/2017 M5	2017 07 20.935661	18 21 16.872	−06 40 56.51	18.0	T	K	J04
C/2017 M5	2017 07 22.66630	18 20 48.78	−06 41 44.7			1	Q62
C/2017 M5	2017 07 22.66959	18 20 48.73	−06 41 45.2	18.4	T	1	Q62
C/2017 M5	2017 07 22.93811	18 20 44.56	−06 41 54.9	18.6	N	9	G40
C/2017 M5	2017 07 22.94880	18 20 44.36	−06 41 55.3	18.5	N	9	G40
C/2017 M5	2017 08 10.39391	18 17 00.71	−06 58 11.6	20.0	N	Q	Q62
C/2017 M5	2017 08 10.41838	18 17 00.50	−06 58 13.8	19.5	N	Q	Q62
C/2017 M5	2017 08 10.44100	18 17 00.27	−06 58 14.9	19.3	N	Q	Q62
C/2017 M5	2017 08 12.37907	18 16 46.03	−07 00 38.7	17.7	N	Q	Q62
C/2017 M5	2017 08 12.39145	18 16 45.97	−07 00 39.6	17.9	N	Q	Q62
C/2017 M5	2017 08 16.00587	18 16 24.59	−07 05 22.1	18.8	T	9	G40
C/2017 M5	2017 08 16.03422	18 16 24.43	−07 05 24.4	19.1	T	9	G40
C/2017 M5	2017 08 16.07144	18 16 24.25	−07 05 27.0	19.2	T	9	G40
C/2017 M5	2017 08 16.59870	18 16 21.72	−07 06 09.0	17.4	N	32	Q62
C/2017 M5	2017 08 16.61205	18 16 21.64	−07 06 10.2	17.4	N	32	Q62
C/2017 M5	2017 08 18.37898	18 16 14.47	−07 08 37.3	18.9	N		T03
C/2017 M5	2017 08 18.38938	18 16 14.43	−07 08 37.6	18.9	N		T03
C/2017 M5	2017 08 18.39978	18 16 14.41	−07 08 38.7	20.0	N		T03
C/2017 M5	2017 08 25.80329	18 16 03.74	−07 19 33.2	18.9	N	K	A71
C/2017 M5	2017 08 25.81628	18 16 03.74	−07 19 34.2	18.8	N	K	A71
C/2017 M5	2017 08 25.82927	18 16 03.74	−07 19 34.8	19.0	N	K	A71
C/2017 M5	2017 08 28.37968	18 16 07.69	−07 23 32.2	17.2	N	32	Q62
C/2017 M5	2017 08 28.41924	18 16 07.74	−07 23 35.2	17.0	N	32	Q62
C/2017 M5	2017 09 25.46722	18 21 11.53	−08 09 24.1	18.4	T	K	Q11
C/2017 M5	2017 09 25.47684	18 21 11.71	−08 09 25.1			K	Q11

C/2017 O1 (ASASSN)

C/2017 O1	2017 07 19.320856	02 32 48.17	−10 31 56.1			A	807
C/2017 O1	2017 07 19.322130	02 32 48.46	−10 31 56.2			A	807
C/2017 O1	2017 07 19.323405	02 32 48.58	−10 31 57.0			A	807
C/2017 O1	2017 07 19.72696	02 33 28.26	−10 24 15.6				247
C/2017 O1	2017 07 19.72696	1 144.3578	-17.0571	375			247
C/2017 O1	2017 07 19.73544	02 33 29.06	−10 24 05.5				247
C/2017 O1	2017 07 19.73544	1 144.3578	-17.0571	375			247
C/2017 O1	2017 07 19.78870	02 33 34.36	−10 23 04.1				247
C/2017 O1	2017 07 19.78870	1 144.3578	-17.0571	375			247
C/2017 O1	2017 07 19.82594	02 33 37.94	−10 22 22.0				247
C/2017 O1	2017 07 19.82594	1 144.3578	-17.0571	375			247
C/2017 O1	2017 07 20.353535	02 34 29.89	−10 12 16.0	15.2	T		W85
C/2017 O1	2017 07 20.355076	02 34 30.03	−10 12 14.3				W85
C/2017 O1	2017 07 21.06371	02 35 39.69	−09 58 41.6	15.0	T		470
C/2017 O1	2017 07 21.06666	02 35 40.00	−09 58 38.2	14.7	T		470
C/2017 O1	2017 07 21.06967	02 35 40.28	−09 58 34.5	15.4	T		470
C/2017 O1	2017 07 21.08649	02 35 41.86	−09 58 15.0	15.5	T		C10
C/2017 O1	2017 07 21.09670	02 35 42.89	−09 58 03.0	15.4	T		C10
C/2017 O1	2017 07 21.10300	02 35 43.52	−09 57 55.7	15.8	T		470
C/2017 O1	2017 07 21.10475	02 35 43.69	−09 57 54.3	15.2	T		C10
C/2017 O1	2017 07 21.10521	02 35 43.72	−09 57 53.3	15.7	T		470
C/2017 O1	2017 07 21.10735	02 35 43.93	−09 57 51.1	15.6	T		470
C/2017 O1	2017 07 21.11439	02 35 44.59	−09 57 42.7	15.2	T		C10
C/2017 O1	2017 07 21.157174	02 35 48.76	−09 56 47.6	15.8	T		K91
C/2017 O1	2017 07 21.158784	02 35 48.91	−09 56 45.6	15.8	T		K91
C/2017 O1	2017 07 21.160386	02 35 49.07	−09 56 43.9	15.8	T		K91
C/2017 O1	2017 07 21.162015	02 35 49.23	−09 56 41.9	15.8	T		K91
C/2017 O1	2017 07 21.163619	02 35 49.38	−09 56 40.0	15.8	T		K91
C/2017 O1	2017 07 21.17645	02 35 50.80	−09 56 30.0	15.4	T	9	G40
C/2017 O1	2017 07 21.18551	02 35 51.68	−09 56 19.5	15.4	T	9	G40
C/2017 O1	2017 07 21.18583	02 35 51.72	−09 56 19.3	15.1	T		J22
C/2017 O1	2017 07 21.18913	02 35 52.00	−09 56 15.2	15.4	T	9	G40
C/2017 O1	2017 07 21.18942	02 35 52.07	−09 56 14.9	15.1	T		J22
C/2017 O1	2017 07 21.19130	02 35 52.24	−09 56 12.8	15.3	T	9	G40
C/2017 O1	2017 07 21.19303	02 35 52.38	−09 56 10.7	15.1	T		J22
C/2017 O1	2017 07 21.20288	02 35 53.35	−09 55 59.3	15.3	T	9	G40
C/2017 O1	2017 07 21.206946	02 35 53.735	−09 55 54.64	15.1	T		J04
C/2017 O1	2017 07 21.208046	02 35 53.838	−09 55 53.35	15.0	T		J04
C/2017 O1	2017 07 21.209147	02 35 53.944	−09 55 52.15	15.2	T		J04
C/2017 O1	2017 07 21.28964	02 36 01.94	−09 54 14.0	15.2	T		W96
C/2017 O1	2017 07 21.31935	02 36 04.82	−09 53 39.5	15.2	T		W96
C/2017 O1	2017 07 21.34983	02 36 07.76	−09 53 04.2	15.2	T		W96
C/2017 O1	2017 07 21.36660	02 36 09.38	−09 52 44.8	15.2	T		W96
C/2017 O1	2017 07 21.40278	02 36 12.87	−09 52 02.1	15.5	T	3	W88
C/2017 O1	2017 07 21.42477	02 36 15.02	−09 51 36.1	15.5	T	3	W88
C/2017 O1	2017 07 21.43063	02 36 15.59	−09 51 29.2	15.4	T	3	W88
C/2017 O1	2017 07 21.43499	02 36 15.99	−09 51 24.4	15.5	T	3	W88
C/2017 O1	2017 07 21.47753	02 36 20.29	−09 50 40.3			5	U69
C/2017 O1	2017 07 21.47947	02 36 20.48	−09 50 38.1			5	U69
C/2017 O1	2017 07 21.48128	02 36 20.65	−09 50 36.0	12.0	T	5	U69
C/2017 O1	2017 07 21.71054	02 36 43.23	−09 46 02.0	15.7	T	2	Q62
C/2017 O1	2017 07 21.71359	02 36 43.53	−09 45 58.9	15.8	T	2	Q62
C/2017 O1	2017 07 21.73448	02 36 45.49	−09 45 40.6				349
C/2017 O1	2017 07 21.74036	02 36 46.10	−09 45 33.2	11.9	T		349
C/2017 O1	2017 07 21.75282	02 36 47.31	−09 45 13.4				25Q62
C/2017 O1	2017 07 21.75856	02 36 47.85	−09 45 06.8				25Q62
C/2017 O1	2017 07 21.76040	02 36 48.02	−09 45 04.6	12.0	T		25Q62
C/2017 O1	2017 07 21.79615	02 36 51.49	−09 44 22.9	14.8	T	3	Q62
C/2017 O1	2017 07 21.80170	02 36 52.02	−09 44 16.4	14.8	T	3	Q62
C/2017 O1	2017 07 21.80725	02 36 52.55	−09 44 09.9	14.8	T	3	Q62
C/2017 O1	2017 07 22.26587	02 37 37.62	−09 35 12.8	15.5	T		Y00
C/2017 O1	2017 07 22.27020	02 37 38.05	−09 35 07.8	15.5	T		Y00
C/2017 O1	2017 07 22.27526	02 37 38.54	−09 35 01.7	15.5	T		Y00
C/2017 O1	2017 07 22.27616	02 37 38.64	−09 35 00.7	15.5	T		Y00
C/2017 O1	2017 07 22.27946	02 37 38.95	−09 34 56.9	15.5	T		Y00
C/2017 O1	2017 07 22.28275	02 37 39.27	−09 34 53.0	15.5	T		Y00
C/2017 O1	2017 07 22.36145	02 37 46.85	−09 33 20.7	15.5	T		Y00
C/2017 O1	2017 07 22.36422	02 37 47.12	−09 33 17.4	15.4	T		Y00
C/2017 O1	2017 07 22.36695	02 37 47.38	−09 33 14.1	15.4	T		Y00

C/2017 O1	2017 07 22.396099	02 37 50.35	−09 32 38.8	16.0	T	W85
C/2017 O1	2017 07 22.397929	02 37 50.53	−09 32 36.6	16.0	T	W85
C/2017 O1	2017 07 22.399753	02 37 50.69	−09 32 34.5	16.0	T	W85
C/2017 O1	2017 07 22.401581	02 37 50.87	−09 32 32.3	16.0	T	W85
C/2017 O1	2017 07 22.403410	02 37 51.06	−09 32 30.1	16.1	T	W85
C/2017 O1	2017 07 22.405238	02 37 51.22	−09 32 28.1	16.0	T	W85
C/2017 O1	2017 07 22.407133	02 37 51.41	−09 32 25.7	16.0	T	W85
C/2017 O1	2017 07 22.78411	02 38 28.38	−09 25 00.3	15.0	T	3 Q62
C/2017 O1	2017 07 22.78803	02 38 28.76	−09 24 55.7	14.9	T	3 Q62
C/2017 O1	2017 07 22.79203	02 38 29.14	−09 24 51.0	14.9	T	3 Q62
C/2017 O1	2017 07 23.10904	02 39 00.25	−09 18 41.2	14.9	T	587
C/2017 O1	2017 07 23.11272	02 39 00.64	−09 18 36.7			587
C/2017 O1	2017 07 23.21573	02 39 10.64	−09 16 33.7	13.7	T	Z22
C/2017 O1	2017 07 23.21834	02 39 10.90	−09 16 30.5	13.7	T	Z22
C/2017 O1	2017 07 23.22086	02 39 11.15	−09 16 27.2	13.7	T	Z22
C/2017 O1	2017 07 23.22361	02 39 11.43	−09 16 23.9	13.8	T	Z22
C/2017 O1	2017 07 23.43953	02 39 32.48	−09 12 06.8	14.7	T	K H47
C/2017 O1	2017 07 23.44201	02 39 32.72	−09 12 04.6	14.0	T	K H47
C/2017 O1	2017 07 23.47725	02 39 36.33	−09 11 22.3	15.3	T	15U69
C/2017 O1	2017 07 23.47834	02 39 36.42	−09 11 20.9	15.3	T	15U69
C/2017 O1	2017 07 23.47925	02 39 36.51	−09 11 20.0	15.3	T	15U69
C/2017 O1	2017 07 23.48032	02 39 36.63	−09 11 18.5	15.3	T	15U69
C/2017 O1	2017 07 23.68017	02 39 56.24	−09 07 13.8	16.0	T	0 Q62
C/2017 O1	2017 07 23.68444	02 39 56.68	−09 07 08.3	15.9	T	0 Q62
C/2017 O1	2017 07 23.68789	02 39 57.01	−09 07 04.5	15.9	T	0 Q62
C/2017 O1	2017 07 23.75172	02 40 03.15	−09 05 48.5	15.3	T	6 Q62
C/2017 O1	2017 07 23.75344	02 40 03.36	−09 05 46.0	15.4	T	6 Q62
C/2017 O1	2017 07 23.75615	02 40 03.60	−09 05 42.7	15.3	T	6 Q62
C/2017 O1	2017 07 23.75877	02 40 03.83	−09 05 39.7	15.3	T	6 Q62
C/2017 O1	2017 07 23.76145	02 40 04.07	−09 05 36.6	15.3	T	6 Q62
C/2017 O1	2017 07 24.30960	02 40 57.76	−08 54 38.6	14.9	T	W96
C/2017 O1	2017 07 24.34269	02 41 00.94	−08 53 58.6	14.9	T	W96
C/2017 O1	2017 07 24.35606	02 41 02.10	−08 53 43.4	15.4	T	Y00
C/2017 O1	2017 07 24.36150	02 41 02.66	−08 53 36.6	15.4	T	Y00
C/2017 O1	2017 07 24.36398	02 41 02.88	−08 53 33.7	15.4	T	Y00
C/2017 O1	2017 07 24.42103	02 41 08.50	−08 52 24.3	15.0	T	G39
C/2017 O1	2017 07 24.42177	02 41 08.52	−08 52 23.1	15.1	T	G39
C/2017 O1	2017 07 24.42250	02 41 08.62	−08 52 21.8	15.0	T	G39
C/2017 O1	2017 07 24.42405	02 41 08.77	−08 52 20.7	14.9	T	G39
C/2017 O1	2017 07 24.42479	02 41 08.86	−08 52 20.3	14.9	T	G39
C/2017 O1	2017 07 24.42627	02 41 09.00	−08 52 17.6	14.8	T	G39
C/2017 O1	2017 07 24.73775	02 41 39.59	−08 46 00.2	16.1	N	19E10
C/2017 O1	2017 07 24.73846	02 41 39.69	−08 45 59.2	16.2	N	19E10
C/2017 O1	2017 07 24.73917	02 41 39.72	−08 45 58.4	16.4	N	19E10
C/2017 O1	2017 07 24.73986	02 41 39.79	−08 45 57.7	16.1	N	19E10
C/2017 O1	2017 07 24.74056	02 41 39.87	−08 45 56.4	16.0	N	19E10
C/2017 O1	2017 07 24.74127	02 41 39.95	−08 45 55.8	16.2	N	19E10
C/2017 O1	2017 07 24.74197	02 41 40.01	−08 45 55.0	16.2	N	19E10
C/2017 O1	2017 07 24.74267	02 41 40.08	−08 45 54.0	16.1	N	19E10
C/2017 O1	2017 07 24.74337	02 41 40.14	−08 45 53.1	16.0	N	19E10
C/2017 O1	2017 07 24.74407	02 41 40.18	−08 45 52.6	16.3	N	19E10
C/2017 O1	2017 07 24.74477	02 41 40.28	−08 45 51.6	16.3	N	19E10
C/2017 O1	2017 07 24.74552	02 41 40.35	−08 45 50.9	16.2	N	19E10
C/2017 O1	2017 07 24.74622	02 41 40.41	−08 45 49.8	16.3	N	19E10
C/2017 O1	2017 07 24.74692	02 41 40.49	−08 45 49.0	16.2	N	19E10
C/2017 O1	2017 07 24.76447	02 41 42.09	−08 45 28.1	14.4	N	N Q62
C/2017 O1	2017 07 24.76608	02 41 42.24	−08 45 26.1	14.4	N	N Q62
C/2017 O1	2017 07 24.80720	02 41 46.28	−08 44 35.6	14.8	N	¡ Q62
C/2017 O1	2017 07 24.81447	02 41 46.98	−08 44 26.8	14.8	N	¡ Q62
C/2017 O1	2017 07 25.11493	02 42 16.40	−08 38 27.6	15.2	N	K A77
C/2017 O1	2017 07 25.11881	02 42 16.76	−08 38 23.2	15.2	N	K A77
C/2017 O1	2017 07 25.12269	02 42 17.15	−08 38 17.6	12.8	T	K A77
C/2017 O1	2017 07 25.14640	02 42 19.48	−08 37 49.6	14.5	N	J01
C/2017 O1	2017 07 25.15096	02 42 19.92	−08 37 44.1	14.6	N	J01
C/2017 O1	2017 07 25.15554	02 42 20.36	−08 37 38.7	14.6	N	J01
C/2017 O1	2017 07 25.39178	02 42 43.36	−08 32 44.6	15.4	N	3W88
C/2017 O1	2017 07 25.39693	02 42 43.87	−08 32 37.8	15.4	N	3W88
C/2017 O1	2017 07 25.40032	02 42 44.19	−08 32 33.6	15.4	N	3W88
C/2017 O1	2017 07 25.40293	02 42 44.46	−08 32 30.6	15.4	N	3W88
C/2017 O1	2017 07 25.40641	02 42 44.77	−08 32 26.1	15.3	N	3W88
C/2017 O1	2017 07 25.41265	02 42 45.29	−08 32 20.1	15.0	N	G39
C/2017 O1	2017 07 25.41339	02 42 45.41	−08 32 18.7	15.0	N	G39
C/2017 O1	2017 07 25.41420	02 42 45.50	−08 32 16.9	14.8	N	G39
C/2017 O1	2017 07 25.41568	02 42 45.66	−08 32 15.3	14.8	N	G39
C/2017 O1	2017 07 25.41642	02 42 45.74	−08 32 14.5	14.9	N	G39
C/2017 O1	2017 07 25.41801	02 42 45.90	−08 32 13.5	14.9	N	G39
C/2017 O1	2017 07 25.81405	02 43 24.56	−08 24 06.0	16.0	T	19E10
C/2017 O1	2017 07 25.81652	02 43 24.76	−08 24 03.4	16.9	T	19E10
C/2017 O1	2017 07 25.81930	02 43 25.00	−08 24 00.1	16.3	T	19E10
C/2017 O1	2017 07 25.82218	02 43 25.27	−08 23 56.2	15.7	T	19E10
C/2017 O1	2017 07 26.07384	02 43 49.92	−08 18 52.7	15.1	N	C10
C/2017 O1	2017 07 26.08647	02 43 51.15	−08 18 37.7	15.1	N	C10
C/2017 O1	2017 07 26.09997	02 43 52.47	−08 18 20.9	15.1	N	C10
C/2017 O1	2017 07 26.11207	02 43 53.65	−08 18 05.9	15.0	N	C10
C/2017 O1	2017 07 26.29926	02 44 11.98	−08 14 08.6	15.0	N	W96
C/2017 O1	2017 07 26.33012	02 44 14.93	−08 13 30.9	14.8	N	W96
C/2017 O1	2017 07 26.35808	02 44 17.70	−08 13 01.0	14.6	N	W33
C/2017 O1	2017 07 26.36131	02 44 18.00	−08 12 57.4	14.4	N	KW33
C/2017 O1	2017 07 26.37129	02 44 18.91	−08 12 44.6	14.5	N	KW33
C/2017 O1	2017 07 26.37880	02 44 19.70	−08 12 35.8	14.5	N	KW33
C/2017 O1	2017 07 26.38664	02 44 20.43	−08 12 26.3	14.9	N	W33
C/2017 O1	2017 07 26.38783	02 44 20.53	−08 12 24.6	14.4	N	KW33
C/2017 O1	2017 07 26.41190	02 44 22.80	−08 11 49.7	14.9	N	G39
C/2017 O1	2017 07 26.41264	02 44 22.86	−08 11 48.7	14.8	N	G39
C/2017 O1	2017 07 26.41338	02 44 22.93	−08 11 47.7	14.9	N	G39
C/2017 O1	2017 07 26.41419	02 44 23.04	−08 11 46.4	14.6	N	G39
C/2017 O1	2017 07 26.41493	02 44 23.11	−08 11 46.1	14.7	N	G39
C/2017 O1	2017 07 26.41715	02 44 23.34	−08 11 43.3	14.7	N	G39
C/2017 O1	2017 07 26.71882	02 44 52.81	−08 05 33.7	12.4	T	D95
C/2017 O1	2017 07 26.72101	02 44 53.03	−08 05 31.0			D95
C/2017 O1	2017 07 26.72833	02 44 53.73	−08 05 21.8			D95
C/2017 O1	2017 07 26.73797	02 44 54.68	−08 05 03.9	15.2	N	P Q62
C/2017 O1	2017 07 26.73899	02 44 54.74	−08 05 03.0	15.2	N	P Q62
C/2017 O1	2017 07 26.73999	02 44 54.82	−08 05 01.8	15.2	N	P Q62
C/2017 O1	2017 07 26.74098	02 44 54.94	−08 05 00.3	15.2	N	P Q62
C/2017 O1	2017 07 26.74199	02 44 55.07	−08 04 58.5	15.3	N	P Q62

C/2017 O1	2017 07 26.74651	02 44 55.39	−08 04 53.7	14.7	N	P	Q62
C/2017 O1	2017 07 26.74794	02 44 55.71	−08 04 50.2	14.8	N	¡	Q62
C/2017 O1	2017 07 26.76503	02 44 57.36	−08 04 29.1	14.8	N	¡	Q62
C/2017 O1	2017 07 26.80439	02 45 00.93	−08 03 42.0	14.6	N	M	Q62
C/2017 O1	2017 07 26.81566	02 45 02.01	−08 03 28.0	14.6	N	M	Q62
C/2017 O1	2017 07 26.82737	02 45 03.13	−08 03 13.3	14.6	N	M	Q62
C/2017 O1	2017 07 27.22656	02 45 42.18	−07 55 00.2	14.5	N		J22
C/2017 O1	2017 07 27.22840	02 45 42.40	−07 54 57.8	14.5	N		J22
C/2017 O1	2017 07 27.23017	02 45 42.56	−07 54 55.6	14.5	N		J22
C/2017 O1	2017 07 27.32017	02 45 51.32	−07 52 57.9	14.5	N		W96
C/2017 O1	2017 07 27.33452	02 45 52.70	−07 52 39.8	14.5	N		W96
C/2017 O1	2017 07 27.36807	02 45 55.85	−07 51 57.5	13.2	T		W96
C/2017 O1	2017 07 27.38320	02 45 57.34	−07 51 38.9	14.5	N		W96
C/2017 O1	2017 07 27.41123	02 46 00.06	−07 51 03.5	14.8	N		G39
C/2017 O1	2017 07 27.41197	02 46 00.11	−07 51 01.9	14.8	N		G39
C/2017 O1	2017 07 27.41271	02 46 00.23	−07 51 01.2	14.8	N		G39
C/2017 O1	2017 07 27.41426	02 46 00.38	−07 51 00.0	14.6	N		G39
C/2017 O1	2017 07 27.41574	02 46 00.53	−07 50 57.8	14.6	N		G39
C/2017 O1	2017 07 27.41826	02 46 00.74	−07 50 54.9	14.7	N		G39
C/2017 O1	2017 07 27.41900	02 46 00.82	−07 50 53.6	14.6	N		G39
C/2017 O1	2017 07 27.41975	02 46 00.91	−07 50 52.7	14.6	N		G39
C/2017 O1	2017 07 27.42049	02 46 00.96	−07 50 51.7	14.6	N		G39
C/2017 O1	2017 07 27.42123	02 46 01.07	−07 50 50.6	14.6	N		G39
C/2017 O1	2017 07 27.42880	02 46 01.87	−07 50 46.6	14.9	N		H47
C/2017 O1	2017 07 27.43312	02 46 02.28	−07 50 41.4	14.8	N		H47
C/2017 O1	2017 07 27.43620	02 46 02.55	−07 50 37.6	15.0	N		H47
C/2017 O1	2017 07 27.43922	02 46 02.84	−07 50 33.7	15.0	N		H47
C/2017 O1	2017 07 28.09739	02 47 06.81	−07 36 44.9	15.1	N		C23
C/2017 O1	2017 07 28.10113	02 47 07.25	−07 36 39.7	15.2	N		C23
C/2017 O1	2017 07 28.10487	02 47 07.62	−07 36 35.5	15.0	N		C23
C/2017 O1	2017 07 28.11359	02 47 08.47	−07 36 24.9	14.8	N	K	K02
C/2017 O1	2017 07 28.11616	02 47 08.70	−07 36 21.1	15.0	N	K	K02
C/2017 O1	2017 07 28.14964	02 47 12.00	−07 35 37.9	14.3	N		J01
C/2017 O1	2017 07 28.15418	02 47 12.37	−07 35 32.4	14.3	N		J01
C/2017 O1	2017 07 28.16098	02 47 13.05	−07 35 23.4	14.3	N		J01
C/2017 O1	2017 07 28.16782	02 47 13.70	−07 35 15.2	14.3	N		J01
C/2017 O1	2017 07 28.33466	02 47 29.95	−07 31 37.4	14.7	N		W96
C/2017 O1	2017 07 28.34501	02 47 30.98	−07 31 24.2	13.0	T		W96
C/2017 O1	2017 07 28.35693	02 47 32.11	−07 31 09.1	14.7	N		W96
C/2017 O1	2017 07 28.41117	02 47 37.28	−07 30 00.3	14.8	N		G39
C/2017 O1	2017 07 28.41192	02 47 37.34	−07 29 59.0	14.7	N		G39
C/2017 O1	2017 07 28.41266	02 47 37.42	−07 29 58.4	14.7	N		G39
C/2017 O1	2017 07 28.41347	02 47 37.51	−07 29 57.9	14.6	N		G39
C/2017 O1	2017 07 28.41421	02 47 37.53	−07 29 55.3	14.6	N		G39
C/2017 O1	2017 07 28.41569	02 47 37.65	−07 29 54.8	14.6	N		G39
C/2017 O1	2017 07 28.41644	02 47 37.81	−07 29 53.8	14.6	N		G39
C/2017 O1	2017 07 28.72922	02 48 08.28	−07 23 13.9	14.7	N	3	Q62
C/2017 O1	2017 07 28.73197	02 48 08.56	−07 23 10.5	14.7	N	3	Q62
C/2017 O1	2017 07 28.73920	02 48 09.25	−07 23 01.1	14.7	N	3	Q62
C/2017 O1	2017 07 28.77502	02 48 12.65	−07 22 15.4	15.7	T	19	E10
C/2017 O1	2017 07 28.77861	02 48 13.02	−07 22 10.6	15.6	T	19	E10
C/2017 O1	2017 07 28.78340	02 48 13.48	−07 22 04.5	15.6	T	19	E10
C/2017 O1	2017 07 28.78821	02 48 13.93	−07 21 58.4	15.7	T	19	E10
C/2017 O1	2017 07 28.79300	02 48 14.39	−07 21 52.3	15.6	T	19	E10
C/2017 O1	2017 07 28.79778	02 48 14.84	−07 21 46.1	15.6	T	19	E10
C/2017 O1	2017 07 29.06784	02 48 41.21	−07 16 07.0	14.4	N		K83
C/2017 O1	2017 07 29.06883	02 48 41.27	−07 16 05.3	14.5	N		K83
C/2017 O1	2017 07 29.06969	02 48 41.35	−07 16 04.0	14.4	N		K83
C/2017 O1	2017 07 29.07149	02 48 41.48	−07 16 01.8	14.5	N		K83
C/2017 O1	2017 07 29.07230	02 48 41.57	−07 16 01.0	14.5	N		K83
C/2017 O1	2017 07 29.07359	02 48 41.70	−07 15 59.8	14.5	N		K83
C/2017 O1	2017 07 29.07531	02 48 41.91	−07 15 57.6	14.4	N		K83
C/2017 O1	2017 07 29.11243	02 48 45.42	−07 15 09.4	14.6	N		213
C/2017 O1	2017 07 29.11552	02 48 45.78	−07 15 05.4	14.6	N		213
C/2017 O1	2017 07 29.12322	02 48 46.47	−07 14 56.1	14.7	N		213
C/2017 O1	2017 07 29.41120	02 49 14.35	−07 08 40.0	13.7	N		G39
C/2017 O1	2017 07 29.41350	02 49 14.54	−07 08 36.6	13.6	N		G39
C/2017 O1	2017 07 29.41646	02 49 14.86	−07 08 32.5	13.5	N		G39
C/2017 O1	2017 07 29.41964	02 49 15.16	−07 08 29.0	13.6	N		G39
C/2017 O1	2017 07 29.42186	02 49 15.38	−07 08 25.4	13.5	N		G39
C/2017 O1	2017 07 30.20782	02 50 31.67	−06 51 31.5	14.0	N	9	G40
C/2017 O1	2017 07 30.21130	02 50 32.00	−06 51 27.4	14.0	N	9	G40
C/2017 O1	2017 07 30.21469	02 50 32.33	−06 51 22.6	14.0	N	9	G40
C/2017 O1	2017 07 30.41057	02 50 51.18	−06 47 01.8	13.8	N		G39
C/2017 O1	2017 07 30.41131	02 50 51.23	−06 47 01.2	13.8	N		G39
C/2017 O1	2017 07 30.41205	02 50 51.32	−06 47 00.4	13.8	N		G39
C/2017 O1	2017 07 30.41287	02 50 51.40	−06 46 59.1	13.6	N		G39
C/2017 O1	2017 07 30.41361	02 50 51.46	−06 46 58.0	13.3	N		G39
C/2017 O1	2017 07 30.41435	02 50 51.54	−06 46 57.6	13.6	N		G39
C/2017 O1	2017 07 30.41583	02 50 51.66	−06 46 54.9	13.6	N		G39
C/2017 O1	2017 07 30.41657	02 50 51.71	−06 46 53.9	13.6	N		G39
C/2017 O1	2017 07 30.41785	02 50 51.91	−06 46 52.9	13.6	N		G39
C/2017 O1	2017 07 30.41859	02 50 51.90	−06 46 51.7	13.7	N		G39
C/2017 O1	2017 07 30.41933	02 50 51.99	−06 46 51.0	13.7	N		G39
C/2017 O1	2017 07 30.42007	02 50 52.04	−06 46 49.4	13.7	N		G39
C/2017 O1	2017 07 30.42081	02 50 52.14	−06 46 48.2	13.6	N		G39
C/2017 O1	2017 07 30.42155	02 50 52.22	−06 46 47.5	13.6	N		G39
C/2017 O1	2017 07 30.43005	02 50 53.13	−06 46 41.6	14.2	N	K	H47
C/2017 O1	2017 07 30.43725	02 50 53.80	−06 46 32.3	14.5	N	K	H47
C/2017 O1	2017 07 30.43881	02 50 53.93	−06 46 30.8	14.3	N	K	H47
C/2017 O1	2017 07 30.75962	02 51 25.02	−06 39 29.9				349
C/2017 O1	2017 07 30.76442	02 51 25.46	−06 39 23.7				349
C/2017 O1	2017 07 30.76921	02 51 25.94	−06 39 17.1	11.2	T		349
C/2017 O1	2017 07 31.10367	02 51 58.33	−06 31 58.0	15.0	N		K02
C/2017 O1	2017 07 31.10875	02 51 58.79	−06 31 52.3	15.1	N		K02
C/2017 O1	2017 07 31.11384	02 51 59.28	−06 31 44.6	15.1	N		K02
C/2017 O1	2017 07 31.31898	02 52 19.19	−06 27 12.2	13.9	N		W33
C/2017 O1	2017 07 31.32752	02 52 20.05	−06 27 01.4	13.7	N		W33
C/2017 O1	2017 07 31.33671	02 52 20.92	−06 26 49.1	13.5	N		W33
C/2017 O1	2017 07 31.41059	02 52 27.92	−06 25 05.7	14.1	N		G39
C/2017 O1	2017 07 31.41133	02 52 27.96	−06 25 04.3	14.1	N		G39
C/2017 O1	2017 07 31.41207	02 52 28.05	−06 25 03.5	14.1	N		G39
C/2017 O1	2017 07 31.41288	02 52 28.17	−06 25 02.7	14.0	N		G39
C/2017 O1	2017 07 31.41510	02 52 28.32	−06 24 59.3	13.9	N		G39
C/2017 O1	2017 07 31.41785	02 52 28.58	−06 24 55.4	14.0	N		G39
C/2017 O1	2017 07 31.41859	02 52 28.67	−06 24 54.8	13.9	N		G39

C/2017 O1	2017 07 31.41934	02 52 28.71	−06 24 53.5	13.9	N	G39
C/2017 O1	2017 07 31.42008	02 52 28.80	−06 24 52.6	13.9	N	G39
C/2017 O1	2017 07 31.42082	02 52 28.87	−06 24 51.6	13.9	N	G39
C/2017 O1	2017 07 31.42156	02 52 28.94	−06 24 50.5	13.9	N	G39
C/2017 O1	2017 07 31.68509	02 52 54.58	−06 19 05.8			Q24
C/2017 O1	2017 07 31.68579	02 52 54.64	−06 19 04.8			Q24
C/2017 O1	2017 07 31.68763	02 52 54.82	−06 19 02.9			Q24
C/2017 O1	2017 07 31.69023	02 52 55.10	−06 18 59.1			Q24
C/2017 O1	2017 07 31.69134	02 52 55.22	−06 18 57.7			Q24
C/2017 O1	2017 07 31.69291	02 52 55.37	−06 18 55.5			Q24
C/2017 O1	2017 07 31.69517	02 52 55.57	−06 18 52.7			Q24
C/2017 O1	2017 07 31.69687	02 52 55.74	−06 18 50.4			Q24
C/2017 O1	2017 07 31.69834	02 52 55.85	−06 18 48.3	11.0	T	Q24
C/2017 O1	2017 08 01.07642	02 53 32.26	−06 10 24.6	15.0	N	K 215
C/2017 O1	2017 08 01.07770	02 53 32.45	−06 10 22.3	14.9	N	K 215
C/2017 O1	2017 08 01.07899	02 53 32.56	−06 10 20.7	14.9	N	K 215
C/2017 O1	2017 08 01.08888	02 53 33.51	−06 10 08.2	13.9	N	970
C/2017 O1	2017 08 01.09419	02 53 33.99	−06 10 00.9	14.1	N	970
C/2017 O1	2017 08 01.37724	02 54 01.04	−06 03 37.6	15	T	C51
Geocentric position (km)		+ 3335.3140	+ 5994.8842	−	45.2526	
C/2017 O1	2017 08 01.40810	02 54 04.31	−06 02 58.4	14.2	N	K H47
C/2017 O1	2017 08 01.40988	02 54 04.39	−06 02 50.2	14.3	N	G39
C/2017 O1	2017 08 01.41063	02 54 04.49	−06 02 49.3	14.3	N	G39
C/2017 O1	2017 08 01.41137	02 54 04.55	−06 02 48.0	14.3	N	G39
C/2017 O1	2017 08 01.41219	02 54 04.62	−06 02 47.7	14.2	N	G39
C/2017 O1	2017 08 01.41421	02 54 04.90	−06 02 50.3	14.2	N	K H47
C/2017 O1	2017 08 01.41441	02 54 04.81	−06 02 44.2	14.2	N	G39
C/2017 O1	2017 08 01.41589	02 54 04.98	−06 02 42.3	14.1	N	G39
C/2017 O1	2017 08 01.41715	02 54 05.11	−06 02 40.9	14.2	N	G39
C/2017 O1	2017 08 01.41789	02 54 05.18	−06 02 39.4	14.1	N	G39
C/2017 O1	2017 08 01.41863	02 54 05.21	−06 02 38.6	14.1	N	G39
C/2017 O1	2017 08 01.41938	02 54 05.26	−06 02 37.7	14.2	N	G39
C/2017 O1	2017 08 01.42013	02 54 05.36	−06 02 37.0	14.2	N	G39
C/2017 O1	2017 08 01.42069	02 54 05.53	−06 02 41.5	14.4	N	K H47
C/2017 O1	2017 08 01.42087	02 54 05.47	−06 02 36.0	14.1	N	G39
C/2017 O1	2017 08 01.44269	02 54 07.35	−06 02 09.2			C51
Geocentric position (km)		+ 3327.0375	+ 5999.5561	−	32.3427	
C/2017 O1	2017 08 01.57359	02 54 19.96	−05 59 12.6			C51
Geocentric position (km)		+ 3310.4255	+ 6008.7967	−	6.5196	
C/2017 O1	2017 08 01.70449	02 54 32.58	−05 56 16.0			C51
Geocentric position (km)		+ 3293.7429	+ 6017.9059	+	19.2908	
C/2017 O1	2017 08 01.77188	02 54 39.41	−05 54 47.9			K 367
C/2017 O1	2017 08 01.77309	02 54 39.54	−05 54 46.3			K 367
C/2017 O1	2017 08 01.77471	02 54 39.68	−05 54 44.1	11.1	T	K 367
C/2017 O1	2017 08 02.13304	02 55 14.28	−05 46 38.7	14.0	N	213
C/2017 O1	2017 08 02.13553	02 55 14.49	−05 46 35.0	14.1	N	213
C/2017 O1	2017 08 02.15126	02 55 16.01	−05 46 13.4	14.0	N	213
C/2017 O1	2017 08 02.40977	02 55 40.84	−05 40 15.4	14.4	N	G39
C/2017 O1	2017 08 02.41051	02 55 40.89	−05 40 13.9	14.4	N	G39
C/2017 O1	2017 08 02.41125	02 55 40.99	−05 40 12.8	14.4	N	G39
C/2017 O1	2017 08 02.41207	02 55 41.03	−05 40 12.1	14.2	N	G39
C/2017 O1	2017 08 02.41355	02 55 41.17	−05 40 10.4	14.2	N	G39
C/2017 O1	2017 08 02.41429	02 55 41.25	−05 40 09.6	14.2	N	G39
C/2017 O1	2017 08 02.41578	02 55 41.38	−05 40 07.7	14.3	N	G39
C/2017 O1	2017 08 02.41705	02 55 41.51	−05 40 06.0	14.3	N	G39
C/2017 O1	2017 08 02.41779	02 55 41.58	−05 40 04.9	14.2	N	G39
C/2017 O1	2017 08 02.41853	02 55 41.63	−05 40 03.3	14.3	N	G39
C/2017 O1	2017 08 02.41927	02 55 41.70	−05 40 02.3	14.2	N	G39
C/2017 O1	2017 08 02.42001	02 55 41.80	−05 40 01.6	14.2	N	G39
C/2017 O1	2017 08 02.42075	02 55 41.88	−05 40 00.4	14.2	N	G39
C/2017 O1	2017 08 02.71209	02 56 10.05	−05 33 20.9	14.3	N	P Q62
C/2017 O1	2017 08 02.71841	02 56 10.70	−05 33 11.8	14.0	N	P Q62
C/2017 O1	2017 08 02.72472	02 56 11.19	−05 33 04.5	14.2	N	P Q62
C/2017 O1	2017 08 03.40981	02 57 17.15	−05 17 19.9	14.5	N	G39
C/2017 O1	2017 08 03.41056	02 57 17.19	−05 17 19.4	14.4	N	G39
C/2017 O1	2017 08 03.41130	02 57 17.27	−05 17 18.3	14.5	N	G39
C/2017 O1	2017 08 03.41212	02 57 17.32	−05 17 16.7	14.3	N	G39
C/2017 O1	2017 08 03.41360	02 57 17.46	−05 17 14.7	14.2	N	G39
C/2017 O1	2017 08 03.41508	02 57 17.58	−05 17 12.4	14.3	N	G39
C/2017 O1	2017 08 03.41709	02 57 17.75	−05 17 10.3	14.3	N	G39
C/2017 O1	2017 08 03.41784	02 57 17.84	−05 17 08.4	14.3	N	G39
C/2017 O1	2017 08 03.41858	02 57 17.92	−05 17 07.6	14.3	N	G39
C/2017 O1	2017 08 03.41932	02 57 17.99	−05 17 06.6	14.3	N	G39
C/2017 O1	2017 08 03.42006	02 57 18.07	−05 17 06.0	14.3	N	G39
C/2017 O1	2017 08 03.42145	02 57 18.35	−05 17 09.8	14.3	N	e H06
C/2017 O1	2017 08 03.42554	02 57 18.74	−05 17 04.2	14.4	N	e H06
C/2017 O1	2017 08 03.42954	02 57 19.13	−05 16 58.7	14.3	N	e H06
C/2017 O1	2017 08 04.12752	02 58 26.30	−05 00 45.8	13.8	N	J22
C/2017 O1	2017 08 04.12925	02 58 26.44	−05 00 42.4	13.8	N	J22
C/2017 O1	2017 08 04.13096	02 58 26.64	−05 00 40.5	13.8	N	J22
C/2017 O1	2017 08 04.36935	02 58 49.45	−04 55 00.5	13.8	N	W96
C/2017 O1	2017 08 04.38047	02 58 50.46	−04 54 45.2	13.7	N	W96
C/2017 O1	2017 08 04.39158	02 58 51.51	−04 54 29.5	13.7	N	W96
C/2017 O1	2017 08 04.40919	02 58 53.19	−04 54 04.6	13.7	N	G39
C/2017 O1	2017 08 04.40993	02 58 53.22	−04 54 03.7	13.8	N	G39
C/2017 O1	2017 08 04.41038	02 58 53.39	−04 54 08.7	14.1	N	K H47
C/2017 O1	2017 08 04.41067	02 58 53.31	−04 54 02.7	13.8	N	G39
C/2017 O1	2017 08 04.41148	02 58 53.39	−04 54 02.1	13.6	N	G39
C/2017 O1	2017 08 04.41296	02 58 53.54	−04 53 59.6	13.6	N	G39
C/2017 O1	2017 08 04.41370	02 58 53.58	−04 53 58.2	13.6	N	G39
C/2017 O1	2017 08 04.41519	02 58 53.71	−04 53 56.2	13.6	N	G39
C/2017 O1	2017 08 04.41646	02 58 53.86	−04 53 54.9	13.6	N	G39
C/2017 O1	2017 08 04.41720	02 58 53.94	−04 53 53.6	13.6	N	G39
C/2017 O1	2017 08 04.41794	02 58 53.98	−04 53 52.1	13.6	N	G39
C/2017 O1	2017 08 04.41868	02 58 54.08	−04 53 51.2	13.6	N	G39
C/2017 O1	2017 08 04.41942	02 58 54.13	−04 53 50.4	13.6	N	G39
C/2017 O1	2017 08 04.42087	02 58 54.37	−04 53 53.7	13.9	N	K H47
C/2017 O1	2017 08 04.42748	02 58 54.99	−04 53 44.6	14.0	N	K H47
C/2017 O1	2017 08 05.03795	02 59 53.66	−04 39 22.6	14.1	N	L04
C/2017 O1	2017 08 05.05442	02 59 55.20	−04 38 58.7	14.1	N	L04
C/2017 O1	2017 08 05.06009	02 59 55.73	−04 38 51.1	14.2	N	L04
C/2017 O1	2017 08 05.08281	02 59 57.91	−04 38 19.0	14.1	N	L04
C/2017 O1	2017 08 05.08791	02 59 58.36	−04 38 11.3	14.2	N	L04
C/2017 O1	2017 08 05.13184	03 00 02.68	−04 37 08.6	13.7	N	J01
C/2017 O1	2017 08 05.14566	03 00 03.98	−04 36 49.0	13.7	N	J01
C/2017 O1	2017 08 05.15721	03 00 05.08	−04 36 32.4	13.7	N	J01

C/2017 O1	2017 08 05.40912	03 00 29.11	−04 30 27.2	14.0	N		G39
C/2017 O1	2017 08 05.40986	03 00 29.18	−04 30 25.9	14.0	N		G39
C/2017 O1	2017 08 05.41060	03 00 29.23	−04 30 25.3	14.1	N		G39
C/2017 O1	2017 08 05.41142	03 00 29.30	−04 30 23.9	13.8	N		G39
C/2017 O1	2017 08 05.41291	03 00 29.43	−04 30 21.5	13.9	N		G39
C/2017 O1	2017 08 05.41365	03 00 29.52	−04 30 20.4	13.9	N		G39
C/2017 O1	2017 08 05.41513	03 00 29.60	−04 30 19.6	14.0	N		G39
C/2017 O1	2017 08 05.41638	03 00 29.78	−04 30 16.6	13.9	N		G39
C/2017 O1	2017 08 05.41712	03 00 29.86	−04 30 15.4	13.9	N		G39
C/2017 O1	2017 08 05.41786	03 00 29.91	−04 30 14.5	13.9	N		G39
C/2017 O1	2017 08 05.41860	03 00 29.98	−04 30 13.4	13.9	N		G39
C/2017 O1	2017 08 05.41934	03 00 30.04	−04 30 12.7	13.9	N		G39
C/2017 O1	2017 08 06.11734	03 01 37.09	−04 13 35.7	13.9	N		213
C/2017 O1	2017 08 06.12584	03 01 37.90	−04 13 23.6	13.8	N		213
C/2017 O1	2017 08 06.14729	03 01 39.96	−04 12 53.0	13.7	N		213
C/2017 O1	2017 08 06.40844	03 02 04.82	−04 06 27.9	14.2	N		G39
C/2017 O1	2017 08 06.40918	03 02 04.89	−04 06 26.9	14.3	N		G39
C/2017 O1	2017 08 06.40992	03 02 05.03	−04 06 25.6	14.4	N		G39
C/2017 O1	2017 08 06.41074	03 02 05.07	−04 06 24.2	14.1	N		G39
C/2017 O1	2017 08 06.41222	03 02 05.21	−04 06 22.2	14.1	N		G39
C/2017 O1	2017 08 06.41296	03 02 05.26	−04 06 21.1	14.1	N		G39
C/2017 O1	2017 08 06.41444	03 02 05.40	−04 06 19.3	14.1	N		G39
C/2017 O1	2017 08 06.41571	03 02 05.51	−04 06 17.2	14.1	N		G39
C/2017 O1	2017 08 06.41645	03 02 05.63	−04 06 15.5	14.1	N		G39
C/2017 O1	2017 08 06.41720	03 02 05.68	−04 06 15.1	14.2	N		G39
C/2017 O1	2017 08 06.41794	03 02 05.74	−04 06 14.0	14.1	N		G39
C/2017 O1	2017 08 06.41868	03 02 05.79	−04 06 13.1	14.2	N		G39
C/2017 O1	2017 08 06.53476	03 02 17.14	−04 03 29.1	14.4	T		T08
C/2017 O1	2017 08 06.54324	03 02 17.91	−04 03 16.7	14.4	T		T08
C/2017 O1	2017 08 06.55264	03 02 18.82	−04 03 03.2	14.4	T		T08
C/2017 O1	2017 08 06.56080	03 02 19.54	−04 02 51.2	14.1	T		T08
C/2017 O1	2017 08 07.08348	03 03 09.58	−03 50 10.5	14.7	N		C23
C/2017 O1	2017 08 07.08647	03 03 09.81	−03 50 06.0	14.1	N		C23
C/2017 O1	2017 08 07.08947	03 03 10.14	−03 50 01.4	14.7	N		C23
C/2017 O1	2017 08 07.09321	03 03 10.48	−03 49 56.0	14.7	N		C23
C/2017 O1	2017 08 07.09620	03 03 10.74	−03 49 51.8	14.2	N		C23
C/2017 O1	2017 08 07.41078	03 03 40.69	−03 42 02.5	14.2	N		G39
C/2017 O1	2017 08 07.41152	03 03 40.76	−03 42 00.9	14.3	N		G39
C/2017 O1	2017 08 07.41300	03 03 40.93	−03 41 59.2	14.3	N		G39
C/2017 O1	2017 08 07.41448	03 03 41.00	−03 41 55.9	14.3	N		G39
C/2017 O1	2017 08 07.41575	03 03 41.15	−03 41 54.7	14.4	N		G39
C/2017 O1	2017 08 07.41650	03 03 41.22	−03 41 53.8	14.4	N		G39
C/2017 O1	2017 08 07.41725	03 03 41.31	−03 41 52.6	14.4	N		G39
C/2017 O1	2017 08 07.41799	03 03 41.39	−03 41 51.5	14.4	N		G39
C/2017 O1	2017 08 07.59829	03 03 58.70	−03 37 29.8	14.6	T		T08
C/2017 O1	2017 08 07.60654	03 03 59.46	−03 37 17.5	14.5	T		T08
C/2017 O1	2017 08 07.61484	03 04 00.25	−03 37 05.2	14.5	T		T08
C/2017 O1	2017 08 07.62312	03 04 00.96	−03 36 53.2	14.3	T		T08
C/2017 O1	2017 08 08.40773	03 05 15.94	−03 17 19.9	14.3	N		G39
C/2017 O1	2017 08 08.40847	03 05 15.96	−03 17 18.9	14.4	N		G39
C/2017 O1	2017 08 08.40921	03 05 15.99	−03 17 17.6	14.4	N		G39
C/2017 O1	2017 08 08.41003	03 05 16.13	−03 17 16.8	14.2	N		G39
C/2017 O1	2017 08 08.41226	03 05 16.27	−03 17 12.6	14.2	N		G39
C/2017 O1	2017 08 08.41374	03 05 16.46	−03 17 10.6	14.2	N		G39
C/2017 O1	2017 08 08.41501	03 05 16.57	−03 17 08.2	14.2	N		G39
C/2017 O1	2017 08 08.41575	03 05 16.59	−03 17 07.2	14.2	N		G39
C/2017 O1	2017 08 08.41649	03 05 16.72	−03 17 06.5	14.2	N		G39
C/2017 O1	2017 08 08.41723	03 05 16.78	−03 17 05.7	14.2	N		G39
C/2017 O1	2017 08 08.61227	03 05 35.49	−03 12 17.9	14.9	T		T05
C/2017 O1	2017 08 08.62365	03 05 36.55	−03 12 00.8	14.9	T		T05
C/2017 O1	2017 08 08.63197	03 05 37.32	−03 11 48.3	14.9	T		T05
C/2017 O1	2017 08 08.80053	03 05 53.41	−03 07 28.6	14.5	N	?	Q62
C/2017 O1	2017 08 08.80282	03 05 53.61	−03 07 24.8	14.6	N	?	Q62
C/2017 O1	2017 08 08.80626	03 05 53.93	−03 07 19.6	14.5	N	?	Q62
C/2017 O1	2017 08 08.80856	03 05 54.15	−03 07 16.4	14.6	N	?	Q62
C/2017 O1	2017 08 08.81110	03 05 54.39	−03 07 12.5	14.6	N	?	Q62
C/2017 O1	2017 08 09.40697	03 06 51.11	−02 52 09.2	14.4	N		G39
C/2017 O1	2017 08 09.40771	03 06 51.12	−02 52 08.6	14.5	N		G39
C/2017 O1	2017 08 09.40845	03 06 51.26	−02 52 08.2	14.4	N		G39
C/2017 O1	2017 08 09.40922	03 06 51.34	−02 52 06.5	14.4	N		G39
C/2017 O1	2017 08 09.40997	03 06 51.44	−02 52 06.1	14.5	N		G39
C/2017 O1	2017 08 09.41171	03 06 51.51	−02 52 02.9	14.2	N		G39
C/2017 O1	2017 08 09.41244	03 06 51.66	−02 52 02.1	14.3	N		G39
C/2017 O1	2017 08 09.41318	03 06 51.68	−02 52 01.0	14.3	N		G39
C/2017 O1	2017 08 09.41392	03 06 51.76	−02 51 59.1	14.3	N		G39
C/2017 O1	2017 08 09.41542	03 06 51.94	−02 51 57.9	14.3	N		G39
C/2017 O1	2017 08 09.41668	03 06 52.07	−02 51 55.9	14.3	N		G39
C/2017 O1	2017 08 09.41743	03 06 52.11	−02 51 53.9	14.3	N		G39
C/2017 O1	2017 08 09.41817	03 06 52.20	−02 51 52.8	14.2	N		G39
C/2017 O1	2017 08 09.41891	03 06 52.23	−02 51 51.8	14.3	N		G39
C/2017 O1	2017 08 09.61604	03 07 11.12	−02 46 56.4	14.9	T		T05
C/2017 O1	2017 08 09.62478	03 07 11.94	−02 46 43.0	15.0	T		T05
C/2017 O1	2017 08 09.63351	03 07 12.77	−02 46 29.5	14.7	T		T05
C/2017 O1	2017 08 09.77858	03 07 26.60	−02 42 41.8	14.3	N		Q59
C/2017 O1	2017 08 09.78446	03 07 27.15	−02 42 32.7	14.3	N		Q59
C/2017 O1	2017 08 09.79163	03 07 27.81	−02 42 21.7	14.3	N		Q59
C/2017 O1	2017 08 10.22602	03 08 09.18	−02 31 20.0	14.4	N	9	G40
C/2017 O1	2017 08 10.23087	03 08 09.62	−02 31 12.6	14.4	N	9	G40
C/2017 O1	2017 08 10.23299	03 08 09.84	−02 31 09.3	14.5	N	9	G40
C/2017 O1	2017 08 10.23590	03 08 10.11	−02 31 04.8	14.4	N	9	G40
C/2017 O1	2017 08 10.41177	03 08 26.70	−02 26 27.0	14.2	N		G39
C/2017 O1	2017 08 10.41251	03 08 26.79	−02 26 25.8	14.2	N		G39
C/2017 O1	2017 08 10.41325	03 08 26.84	−02 26 24.2	14.2	N		G39
C/2017 O1	2017 08 10.41402	03 08 26.94	−02 26 24.5	14.3	N		G39
C/2017 O1	2017 08 10.41550	03 08 27.01	−02 26 20.6	14.0	N		G39
C/2017 O1	2017 08 10.41666	03 08 27.22	−02 26 19.7	14.2	N		G39
C/2017 O1	2017 08 10.41740	03 08 27.32	−02 26 18.1	14.2	N		G39
C/2017 O1	2017 08 10.41814	03 08 27.33	−02 26 17.5	14.2	N		G39
C/2017 O1	2017 08 10.41888	03 08 27.41	−02 26 15.6	14.2	N		G39
C/2017 O1	2017 08 10.41962	03 08 27.48	−02 26 14.8	14.2	N		G39
C/2017 O1	2017 08 10.42131	03 08 27.63	−02 26 12.0	14.2	N		G39
C/2017 O1	2017 08 10.42205	03 08 27.67	−02 26 11.3	14.3	N		G39
C/2017 O1	2017 08 10.42279	03 08 27.76	−02 26 10.1	14.2	N		G39
C/2017 O1	2017 08 10.42353	03 08 27.87	−02 26 08.8	14.2	N		G39
C/2017 O1	2017 08 10.42427	03 08 27.92	−02 26 07.2	14.2	N		G39
C/2017 O1	2017 08 10.42501	03 08 27.97	−02 26 05.9	14.2	N		G39

C/2017 O1	2017 08 10.68331	03 08 52.76	−02 19 24.5	14.5	N	32Q62
C/2017 O1	2017 08 10.69638	03 08 54.01	−02 19 04.5	14.3	N	32Q62
C/2017 O1	2017 08 10.70134	03 08 54.43	−02 18 57.3	14.5	N	32Q62
C/2017 O1	2017 08 10.70543	03 08 54.86	−02 18 50.4	14.4	N	32Q62
C/2017 O1	2017 08 11.09478	03 09 31.83	−02 08 50.1	14.3	N	K02
C/2017 O1	2017 08 11.09734	03 09 32.08	−02 08 46.5	14.7	N	K02
C/2017 O1	2017 08 11.40632	03 10 01.27	−02 00 33.9	14.3	N	G39
C/2017 O1	2017 08 11.40706	03 10 01.30	−02 00 32.2	14.2	N	G39
C/2017 O1	2017 08 11.40858	03 10 01.37	−02 00 31.5	14.4	N	G39
C/2017 O1	2017 08 11.41138	03 10 01.71	−02 00 25.1	14.1	N	G39
C/2017 O1	2017 08 11.41212	03 10 01.76	−02 00 23.8	14.1	N	G39
C/2017 O1	2017 08 11.41286	03 10 01.82	−02 00 22.7	14.1	N	G39
C/2017 O1	2017 08 11.41360	03 10 01.88	−02 00 22.0	14.3	N	G39
C/2017 O1	2017 08 11.41508	03 10 02.04	−02 00 19.2	14.1	N	G39
C/2017 O1	2017 08 11.41620	03 10 02.18	−02 00 18.4	14.2	N	G39
C/2017 O1	2017 08 11.41694	03 10 02.27	−02 00 17.0	14.2	N	G39
C/2017 O1	2017 08 11.41769	03 10 02.30	−02 00 15.5	14.2	N	G39
C/2017 O1	2017 08 11.41843	03 10 02.36	−02 00 14.5	14.2	N	G39
C/2017 O1	2017 08 11.41917	03 10 02.42	−02 00 13.0	14.2	N	G39
C/2017 O1	2017 08 11.61834	03 10 21.33	−01 55 04.7	13.8	T	T08
C/2017 O1	2017 08 11.62732	03 10 22.17	−01 54 50.5	13.8	T	T08
C/2017 O1	2017 08 11.63626	03 10 23.02	−01 54 36.3	14.2	T	T08
C/2017 O1	2017 08 12.01589	03 10 59.21	−01 44 36.2	14.1	N	585
C/2017 O1	2017 08 12.01694	03 10 59.32	−01 44 34.2	14.0	N	585
C/2017 O1	2017 08 12.01776	03 10 59.39	−01 44 33.3	14.0	N	585
C/2017 O1	2017 08 12.01850	03 10 59.45	−01 44 32.1	14.0	N	585
C/2017 O1	2017 08 12.01924	03 10 59.54	−01 44 30.9	14.0	N	585
C/2017 O1	2017 08 12.02000	03 10 59.61	−01 44 29.6	14.0	N	585
C/2017 O1	2017 08 12.02071	03 10 59.62	−01 44 28.6	14.1	N	585
C/2017 O1	2017 08 12.02145	03 10 59.74	−01 44 27.3	14.0	N	585
C/2017 O1	2017 08 12.02218	03 10 59.82	−01 44 26.2	14.1	N	585
C/2017 O1	2017 08 12.02304	03 10 59.89	−01 44 24.8	14.0	N	585
C/2017 O1	2017 08 12.02375	03 10 59.96	−01 44 23.7	14.0	N	585
C/2017 O1	2017 08 12.02486	03 11 00.05	−01 44 22.0	13.9	N	585
C/2017 O1	2017 08 12.02559	03 11 00.13	−01 44 20.9	13.9	N	585
C/2017 O1	2017 08 12.02633	03 11 00.19	−01 44 19.9	13.9	N	585
C/2017 O1	2017 08 12.02761	03 11 00.31	−01 44 17.7	13.9	N	585
C/2017 O1	2017 08 12.02833	03 11 00.36	−01 44 16.6	13.9	N	585
C/2017 O1	2017 08 12.02905	03 11 00.44	−01 44 15.4	13.9	N	585
C/2017 O1	2017 08 12.13170	03 11 10.30	−01 41 30.3	14.3	N	9 G40
C/2017 O1	2017 08 12.13289	03 11 10.42	−01 41 28.4	14.3	N	9 G40
C/2017 O1	2017 08 12.13836	03 11 10.91	−01 41 19.4	14.3	N	9 G40
C/2017 O1	2017 08 12.14284	03 11 11.36	−01 41 12.1	14.3	N	9 G40
C/2017 O1	2017 08 12.31839	03 11 27.89	−01 36 26.1	14.3	N	W96
C/2017 O1	2017 08 12.34802	03 11 30.65	−01 35 38.6	14.3	N	W96
C/2017 O1	2017 08 12.40701	03 11 36.07	−01 34 04.9	14.4	N	G39
C/2017 O1	2017 08 12.40775	03 11 36.18	−01 34 02.9	14.3	N	G39
C/2017 O1	2017 08 12.40927	03 11 36.32	−01 34 00.0	14.3	N	G39
C/2017 O1	2017 08 12.41132	03 11 36.52	−01 33 57.7	14.2	N	G39
C/2017 O1	2017 08 12.41206	03 11 36.62	−01 33 56.4	14.2	N	G39
C/2017 O1	2017 08 12.41280	03 11 36.64	−01 33 54.4	14.2	N	G39
C/2017 O1	2017 08 12.41354	03 11 36.71	−01 33 53.3	14.2	N	G39
C/2017 O1	2017 08 12.41502	03 11 36.84	−01 33 50.9	14.2	N	G39
C/2017 O1	2017 08 12.41613	03 11 36.98	−01 33 49.9	14.2	N	G39
C/2017 O1	2017 08 12.41688	03 11 37.07	−01 33 48.3	14.2	N	G39
C/2017 O1	2017 08 12.41762	03 11 37.12	−01 33 47.1	14.3	N	G39
C/2017 O1	2017 08 12.41836	03 11 37.15	−01 33 46.2	14.3	N	G39
C/2017 O1	2017 08 12.41984	03 11 37.33	−01 33 44.3	14.2	N	G39
C/2017 O1	2017 08 13.11145	03 12 43.13	−01 15 14.4	14.8	N	213
C/2017 O1	2017 08 13.13196	03 12 44.84	−01 14 40.3	14.5	N	213
C/2017 O1	2017 08 13.14334	03 12 45.86	−01 14 22.3	14.4	N	213
C/2017 O1	2017 08 13.40568	03 13 10.61	−01 07 10.8	14.4	N	G39
C/2017 O1	2017 08 13.40642	03 13 10.70	−01 07 09.2	14.4	N	G39
C/2017 O1	2017 08 13.40716	03 13 10.77	−01 07 08.0	14.4	N	G39
C/2017 O1	2017 08 13.41073	03 13 11.14	−01 07 02.2	14.2	N	G39
C/2017 O1	2017 08 13.41147	03 13 11.20	−01 07 01.0	14.2	N	G39
C/2017 O1	2017 08 13.41221	03 13 11.29	−01 07 00.1	14.2	N	G39
C/2017 O1	2017 08 13.41295	03 13 11.34	−01 06 59.2	14.2	N	G39
C/2017 O1	2017 08 13.41443	03 13 11.45	−01 06 56.3	14.1	N	G39
C/2017 O1	2017 08 13.41554	03 13 11.60	−01 06 55.4	14.3	N	G39
C/2017 O1	2017 08 13.41628	03 13 11.65	−01 06 53.6	14.2	N	G39
C/2017 O1	2017 08 13.41703	03 13 11.74	−01 06 52.3	14.2	N	G39
C/2017 O1	2017 08 13.41851	03 13 11.87	−01 06 49.5	14.2	N	G39
C/2017 O1	2017 08 14.40499	03 14 45.05	−00 39 47.5	14.4	N	G39
C/2017 O1	2017 08 14.40573	03 14 45.15	−00 39 46.5	14.4	N	G39
C/2017 O1	2017 08 14.40647	03 14 45.19	−00 39 45.3	14.4	N	G39
C/2017 O1	2017 08 14.40799	03 14 45.33	−00 39 42.9	14.4	N	G39
C/2017 O1	2017 08 14.40997	03 14 45.54	−00 39 39.4	14.2	N	G39
C/2017 O1	2017 08 14.41071	03 14 45.56	−00 39 38.3	14.4	N	G39
C/2017 O1	2017 08 14.41146	03 14 45.65	−00 39 37.2	14.3	N	G39
C/2017 O1	2017 08 14.41220	03 14 45.71	−00 39 35.6	14.3	N	G39
C/2017 O1	2017 08 14.41294	03 14 45.77	−00 39 34.7	14.3	N	G39
C/2017 O1	2017 08 14.41464	03 14 45.97	−00 39 32.0	14.3	N	G39
C/2017 O1	2017 08 14.41538	03 14 46.04	−00 39 30.4	14.3	N	G39
C/2017 O1	2017 08 14.41612	03 14 46.09	−00 39 29.6	14.3	N	G39
C/2017 O1	2017 08 14.41686	03 14 46.13	−00 39 27.4	14.3	N	G39
C/2017 O1	2017 08 14.41760	03 14 46.23	−00 39 27.0	14.3	N	G39
C/2017 O1	2017 08 15.09605	03 15 50.44	−00 20 41.3	15.1	N	K A77
C/2017 O1	2017 08 15.10128	03 15 50.92	−00 20 32.5	15.1	N	K A77
C/2017 O1	2017 08 15.10676	03 15 51.39	−00 20 23.1	12.8	T	K A77
C/2017 O1	2017 08 15.40497	03 16 19.32	−00 11 54.2	14.4	N	G39
C/2017 O1	2017 08 15.40572	03 16 19.38	−00 11 53.1	14.4	N	G39
C/2017 O1	2017 08 15.40646	03 16 19.46	−00 11 51.9	14.4	N	G39
C/2017 O1	2017 08 15.40722	03 16 19.67	−00 11 49.7	14.4	N	G39
C/2017 O1	2017 08 15.40870	03 16 19.81	−00 11 47.5	14.3	N	G39
C/2017 O1	2017 08 15.40986	03 16 19.79	−00 11 46.9	14.2	N	G39
C/2017 O1	2017 08 15.41060	03 16 19.89	−00 11 45.7	14.3	N	G39
C/2017 O1	2017 08 15.41134	03 16 19.95	−00 11 44.1	14.3	N	G39
C/2017 O1	2017 08 15.41208	03 16 20.03	−00 11 42.4	14.3	N	G39
C/2017 O1	2017 08 15.41282	03 16 20.06	−00 11 41.5	14.3	N	G39
C/2017 O1	2017 08 15.41456	03 16 20.12	−00 11 38.8	14.3	N	G39
C/2017 O1	2017 08 15.41530	03 16 20.32	−00 11 38.2	14.4	N	G39
C/2017 O1	2017 08 15.41604	03 16 20.36	−00 11 36.6	14.4	N	G39
C/2017 O1	2017 08 15.41678	03 16 20.44	−00 11 35.5	14.3	N	G39
C/2017 O1	2017 08 15.41752	03 16 20.53	−00 11 33.5	14.3	N	G39
C/2017 O1	2017 08 16.04197	03 17 19.45	+00 05 58.6	14.8	N	C23

C/2017 O1	2017 08 16.04572	03 17 19.81	+00 06 06.1	14.8	N	C23
C/2017 O1	2017 08 16.05021	03 17 20.24	+00 06 13.4	14.8	N	C23
C/2017 O1	2017 08 16.07282	03 17 22.37	+00 06 52.3	15.2	N	K 160
C/2017 O1	2017 08 16.07559	03 17 22.63	+00 06 57.0	15.2	N	K 160
C/2017 O1	2017 08 16.07836	03 17 22.90	+00 07 02.0	15.2	N	K 160
C/2017 O1	2017 08 16.09792	03 17 24.75	+00 07 34.8	15.2	N	K02
C/2017 O1	2017 08 16.10470	03 17 25.36	+00 07 45.1	15.3	N	K02
C/2017 O1	2017 08 16.11233	03 17 26.05	+00 07 58.8	14.5	N	K02
C/2017 O1	2017 08 16.27386	03 17 41.33	+00 12 43.9	14.0	N	W96
C/2017 O1	2017 08 16.30321	03 17 44.07	+00 13 33.9	13.9	N	W96
C/2017 O1	2017 08 16.40435	03 17 53.36	+00 16 28.8	13.8	N	G39
C/2017 O1	2017 08 16.40509	03 17 53.43	+00 16 29.8	13.8	N	G39
C/2017 O1	2017 08 16.40583	03 17 53.54	+00 16 30.6	13.8	N	G39
C/2017 O1	2017 08 16.41000	03 17 53.89	+00 16 37.7	13.8	N	G39
C/2017 O1	2017 08 16.41222	03 17 54.09	+00 16 41.2	13.8	N	G39
C/2017 O1	2017 08 16.41465	03 17 54.30	+00 16 45.5	13.7	N	G39
C/2017 O1	2017 08 16.41689	03 17 54.50	+00 16 49.1	13.8	N	G39
C/2017 O1	2017 08 16.74353	03 18 25.34	+00 26 13.3	13.5	N	3 Q62
C/2017 O1	2017 08 16.74701	03 18 25.66	+00 26 19.3	13.5	N	3 Q62
C/2017 O1	2017 08 16.75146	03 18 26.06	+00 26 27.0	13.6	N	3 Q62
C/2017 O1	2017 08 17.03776	03 18 53.06	+00 34 34.4	15.4	N	C47
C/2017 O1	2017 08 17.03997	03 18 53.27	+00 34 38.0	14.6	N	C47
C/2017 O1	2017 08 17.04255	03 18 53.50	+00 34 42.8	14.3	N	C47
C/2017 O1	2017 08 17.04514	03 18 53.75	+00 34 47.3	15.0	N	C47
C/2017 O1	2017 08 17.04772	03 18 53.98	+00 34 51.6	15.4	N	C47
C/2017 O1	2017 08 17.05056	03 18 54.25	+00 34 56.8	14.7	N	K 160
C/2017 O1	2017 08 17.05067	03 18 54.24	+00 34 57.0	14.8	N	C47
C/2017 O1	2017 08 17.05330	03 18 54.51	+00 35 01.6	14.7	N	K 160
C/2017 O1	2017 08 17.05604	03 18 54.81	+00 35 06.7	14.7	N	K 160
C/2017 O1	2017 08 17.08833	03 18 57.71	+00 36 02.7	14.0	N	K A71
C/2017 O1	2017 08 17.09594	03 18 58.38	+00 36 16.1	13.9	N	K A71
C/2017 O1	2017 08 17.40362	03 19 27.20	+00 45 21.1	14.0	N	G39
C/2017 O1	2017 08 17.40436	03 19 27.25	+00 45 21.6	14.0	N	G39
C/2017 O1	2017 08 17.40512	03 19 27.33	+00 45 23.5	13.9	N	G39
C/2017 O1	2017 08 17.40588	03 19 27.41	+00 45 24.4	13.8	N	G39
C/2017 O1	2017 08 17.40737	03 19 27.51	+00 45 27.7	13.9	N	G39
C/2017 O1	2017 08 17.40851	03 19 27.65	+00 45 29.6	13.8	N	G39
C/2017 O1	2017 08 17.40925	03 19 27.71	+00 45 30.7	13.8	N	G39
C/2017 O1	2017 08 17.40999	03 19 27.75	+00 45 31.6	13.9	N	G39
C/2017 O1	2017 08 17.41074	03 19 27.84	+00 45 33.5	13.8	N	G39
C/2017 O1	2017 08 17.41148	03 19 27.92	+00 45 34.7	13.9	N	G39
C/2017 O1	2017 08 17.41222	03 19 27.96	+00 45 35.8	13.8	N	G39
C/2017 O1	2017 08 17.41317	03 19 28.02	+00 45 37.2	13.9	N	G39
C/2017 O1	2017 08 17.41391	03 19 28.13	+00 45 38.9	13.9	N	G39
C/2017 O1	2017 08 17.41465	03 19 28.22	+00 45 40.2	13.8	N	G39
C/2017 O1	2017 08 17.41539	03 19 28.28	+00 45 41.5	13.9	N	G39
C/2017 O1	2017 08 17.41613	03 19 28.33	+00 45 42.6	13.9	N	G39
C/2017 O1	2017 08 17.41688	03 19 28.36	+00 45 44.3	13.8	N	G39
C/2017 O1	2017 08 17.41890	03 19 28.81	+00 45 40.3	15.2	N	30H06
C/2017 O1	2017 08 17.41971	03 19 28.92	+00 45 42.0	15.3	N	30H06
C/2017 O1	2017 08 17.42052	03 19 28.99	+00 45 43.3	15.2	N	30H06
C/2017 O1	2017 08 17.42161	03 19 29.06	+00 45 44.9	15.2	N	30H06
C/2017 O1	2017 08 17.42242	03 19 29.14	+00 45 46.5	15.2	N	30H06
C/2017 O1	2017 08 17.42323	03 19 29.22	+00 45 48.1	15.1	N	30H06
C/2017 O1	2017 08 17.42404	03 19 29.30	+00 45 49.1	15.2	N	30H06
C/2017 O1	2017 08 17.42486	03 19 29.36	+00 45 50.9	15.2	N	30H06
C/2017 O1	2017 08 18.07539	03 20 30.32	+01 04 55.4	15.1	N	K 160
C/2017 O1	2017 08 18.07813	03 20 30.57	+01 05 00.2	15.2	N	K 160
C/2017 O1	2017 08 18.08087	03 20 30.82	+01 05 05.3	14.5	N	K 160
C/2017 O1	2017 08 18.40345	03 21 00.73	+01 14 47.1	14.2	N	G39
C/2017 O1	2017 08 18.40419	03 21 00.91	+01 14 47.3	14.1	N	G39
C/2017 O1	2017 08 18.40493	03 21 00.94	+01 14 49.2	14.1	N	G39
C/2017 O1	2017 08 18.40644	03 21 01.14	+01 14 51.7	14.0	N	G39
C/2017 O1	2017 08 18.40817	03 21 01.23	+01 14 55.1	13.9	N	G39
C/2017 O1	2017 08 18.40891	03 21 01.29	+01 14 56.4	13.9	N	G39
C/2017 O1	2017 08 18.40965	03 21 01.38	+01 14 57.8	13.9	N	G39
C/2017 O1	2017 08 18.41039	03 21 01.49	+01 14 58.9	13.9	N	G39
C/2017 O1	2017 08 18.41113	03 21 01.56	+01 15 00.0	13.9	N	G39
C/2017 O1	2017 08 18.41285	03 21 01.69	+01 15 03.6	13.9	N	G39
C/2017 O1	2017 08 18.41359	03 21 01.72	+01 15 04.7	13.9	N	G39
C/2017 O1	2017 08 18.41433	03 21 01.79	+01 15 06.2	13.9	N	G39
C/2017 O1	2017 08 18.41507	03 21 01.85	+01 15 07.2	13.9	N	G39
C/2017 O1	2017 08 18.41581	03 21 01.92	+01 15 08.5	13.9	N	G39
C/2017 O1	2017 08 19.07320	03 22 03.50	+01 34 39.6	12.8	T	104
C/2017 O1	2017 08 19.07621	03 22 03.89	+01 34 44.2	14.5	N	C23
C/2017 O1	2017 08 19.07627	03 22 03.79	+01 34 45.4	12.9	T	104
C/2017 O1	2017 08 19.07738	03 22 03.92	+01 34 47.2	13.1	T	104
C/2017 O1	2017 08 19.08145	03 22 04.37	+01 34 53.9	13.9	N	C23
C/2017 O1	2017 08 19.08744	03 22 04.94	+01 35 04.9	14.4	N	C23
C/2017 O1	2017 08 19.10183	03 22 06.30	+01 35 31.2	13.5	N	J22
C/2017 O1	2017 08 19.10272	03 22 06.41	+01 35 33.4	13.5	N	J22
C/2017 O1	2017 08 19.10361	03 22 06.46	+01 35 36.1	13.5	N	J22
C/2017 O1	2017 08 19.11440	03 22 07.52	+01 35 54.7	13.9	N	J01
C/2017 O1	2017 08 19.12591	03 22 08.55	+01 36 15.0	13.8	N	J01
C/2017 O1	2017 08 19.15126	03 22 10.90	+01 37 00.7	13.8	N	J01
C/2017 O1	2017 08 19.38718	03 22 32.95	+01 44 08.7	14.6	N	K H47
C/2017 O1	2017 08 19.39354	03 22 33.53	+01 44 20.6	14.6	N	K H47
C/2017 O1	2017 08 19.40097	03 22 34.16	+01 44 33.8	14.8	N	K H47
C/2017 O1	2017 08 19.40279	03 22 34.21	+01 44 44.0	14.2	N	G39
C/2017 O1	2017 08 19.40353	03 22 34.23	+01 44 45.2	14.3	N	G39
C/2017 O1	2017 08 19.40427	03 22 34.34	+01 44 46.1	14.2	N	G39
C/2017 O1	2017 08 19.40503	03 22 34.28	+01 44 47.2	14.1	N	G39
C/2017 O1	2017 08 19.40579	03 22 34.32	+01 44 49.4	14.2	N	G39
C/2017 O1	2017 08 19.40653	03 22 34.55	+01 44 52.9	14.2	N	G39
C/2017 O1	2017 08 19.40829	03 22 34.73	+01 44 54.2	14.1	N	G39
C/2017 O1	2017 08 19.40903	03 22 34.78	+01 44 55.5	14.0	N	G39
C/2017 O1	2017 08 19.40977	03 22 34.84	+01 44 56.6	14.1	N	G39
C/2017 O1	2017 08 19.41051	03 22 34.91	+01 44 58.4	14.0	N	G39
C/2017 O1	2017 08 19.41222	03 22 35.02	+01 45 01.6	14.1	N	G39
C/2017 O1	2017 08 19.41296	03 22 35.08	+01 45 02.8	14.1	N	G39
C/2017 O1	2017 08 19.41370	03 22 35.17	+01 45 04.1	14.1	N	G39
C/2017 O1	2017 08 19.41444	03 22 35.23	+01 45 05.8	14.1	N	G39
C/2017 O1	2017 08 19.41519	03 22 35.29	+01 45 06.8	14.1	N	G39
C/2017 O1	2017 08 19.41593	03 22 35.37	+01 45 07.8	14.1	N	G39
C/2017 O1	2017 08 19.74106	03 23 05.94	+01 54 53.6	10.4	T	349
C/2017 O1	2017 08 19.74485	03 23 06.29	+01 55 00.6			349

C/2017 O1	2017 08 20.09325	03 23 38.87	+02 05 38.4	13.9	N	Z50
C/2017 O1	2017 08 20.09435	03 23 38.94	+02 05 40.5	14.0	N	Z50
C/2017 O1	2017 08 20.09545	03 23 39.04	+02 05 42.4	14.0	N	Z50
C/2017 O1	2017 08 20.40209	03 24 07.38	+02 15 15.8	14.3	N	G39
C/2017 O1	2017 08 20.40284	03 24 07.45	+02 15 17.0	14.3	N	G39
C/2017 O1	2017 08 20.40358	03 24 07.51	+02 15 18.3	14.3	N	G39
C/2017 O1	2017 08 20.40435	03 24 07.62	+02 15 20.9	14.2	N	G39
C/2017 O1	2017 08 20.40509	03 24 07.63	+02 15 23.3	14.3	N	G39
C/2017 O1	2017 08 20.40683	03 24 07.81	+02 15 24.8	14.2	N	G39
C/2017 O1	2017 08 20.40757	03 24 07.88	+02 15 26.2	14.2	N	G39
C/2017 O1	2017 08 20.40831	03 24 07.96	+02 15 27.1	14.1	N	G39
C/2017 O1	2017 08 20.40905	03 24 08.01	+02 15 28.2	14.2	N	G39
C/2017 O1	2017 08 20.40979	03 24 08.10	+02 15 29.4	14.2	N	G39
C/2017 O1	2017 08 20.41053	03 24 08.15	+02 15 31.0	14.2	N	G39
C/2017 O1	2017 08 20.41150	03 24 08.20	+02 15 33.1	14.2	N	G39
C/2017 O1	2017 08 20.41225	03 24 08.31	+02 15 34.4	14.2	N	G39
C/2017 O1	2017 08 20.41299	03 24 08.38	+02 15 35.4	14.2	N	G39
C/2017 O1	2017 08 20.41373	03 24 08.40	+02 15 36.8	14.2	N	G39
C/2017 O1	2017 08 20.41447	03 24 08.50	+02 15 38.4	14.2	N	G39
C/2017 O1	2017 08 20.41521	03 24 08.56	+02 15 39.7	14.2	N	G39
C/2017 O1	2017 08 21.02166	03 25 05.22	+02 34 19.3	15.1	N	107
C/2017 O1	2017 08 21.02936	03 25 06.03	+02 34 33.8	15.1	N	107
C/2017 O1	2017 08 21.03794	03 25 06.80	+02 34 50.9	15.2	N	107
C/2017 O1	2017 08 21.04612	03 25 07.57	+02 35 06.9	14.3	N	213
C/2017 O1	2017 08 21.04652	03 25 07.54	+02 35 06.9	15.2	N	107
C/2017 O1	2017 08 21.05509	03 25 08.33	+02 35 22.7	15.2	N	107
C/2017 O1	2017 08 21.08867	03 25 11.54	+02 36 24.6	13.8	N	J22
C/2017 O1	2017 08 21.08958	03 25 11.70	+02 36 28.2	13.8	N	J22
C/2017 O1	2017 08 21.09236	03 25 12.02	+02 36 33.7	13.8	N	J22
C/2017 O1	2017 08 21.10138	03 25 12.65	+02 36 50.7	14.3	N	213
C/2017 O1	2017 08 21.11639	03 25 14.01	+02 37 17.9	15.1	N	K 160
C/2017 O1	2017 08 21.11918	03 25 14.26	+02 37 23.1	15.1	N	K 160
C/2017 O1	2017 08 21.12195	03 25 14.51	+02 37 28.3	15.2	N	K 160
C/2017 O1	2017 08 21.16359	03 25 18.31	+02 38 47.2	14.2	N	213
C/2017 O1	2017 08 21.40209	03 25 40.38	+02 46 24.0	14.5	N	G39
C/2017 O1	2017 08 21.40285	03 25 40.42	+02 46 24.8	14.4	N	G39
C/2017 O1	2017 08 21.40359	03 25 40.51	+02 46 25.7	14.4	N	G39
C/2017 O1	2017 08 21.40686	03 25 40.72	+02 46 32.0	14.3	N	G39
C/2017 O1	2017 08 21.40762	03 25 40.92	+02 46 34.5	14.3	N	G39
C/2017 O1	2017 08 21.40984	03 25 41.10	+02 46 38.1	14.2	N	G39
C/2017 O1	2017 08 21.41058	03 25 41.12	+02 46 39.3	14.2	N	G39
C/2017 O1	2017 08 21.41157	03 25 41.25	+02 46 40.7	14.2	N	G39
C/2017 O1	2017 08 21.41231	03 25 41.27	+02 46 42.6	14.2	N	G39
C/2017 O1	2017 08 21.41307	03 25 41.35	+02 46 43.7	14.2	N	G39
C/2017 O1	2017 08 21.41381	03 25 41.44	+02 46 44.1	14.3	N	G39
C/2017 O1	2017 08 21.41455	03 25 41.52	+02 46 46.7	14.2	N	G39
C/2017 O1	2017 08 21.41529	03 25 41.55	+02 46 47.9	14.2	N	G39
C/2017 O1	2017 08 21.42822	03 25 42.86	+02 47 05.1	14.1	N	K H47
C/2017 O1	2017 08 21.43722	03 25 43.68	+02 47 22.2	14.1	N	K H47
C/2017 O1	2017 08 21.44374	03 25 44.28	+02 47 34.6	14.2	N	K H47
C/2017 O1	2017 08 21.62002	03 26 00.60	+02 53 08.7	14.9	T	T05
C/2017 O1	2017 08 21.62900	03 26 01.41	+02 53 25.8	14.8	T	T05
C/2017 O1	2017 08 21.63744	03 26 02.17	+02 53 41.8	14.9	T	T05
C/2017 O1	2017 08 22.29374	03 27 03.38	+03 14 38.3	14.3	N	W96
C/2017 O1	2017 08 22.32632	03 27 06.28	+03 15 40.8	14.3	N	W96
C/2017 O1	2017 08 22.40142	03 27 13.05	+03 18 05.7	14.6	N	G39
C/2017 O1	2017 08 22.40216	03 27 13.21	+03 18 06.4	14.5	N	G39
C/2017 O1	2017 08 22.40291	03 27 13.22	+03 18 07.9	14.6	N	G39
C/2017 O1	2017 08 22.40367	03 27 13.25	+03 18 08.5	14.4	N	G39
C/2017 O1	2017 08 22.40441	03 27 13.30	+03 18 11.5	14.5	N	G39
C/2017 O1	2017 08 22.40617	03 27 13.52	+03 18 14.1	14.4	N	G39
C/2017 O1	2017 08 22.40691	03 27 13.58	+03 18 15.5	14.4	N	G39
C/2017 O1	2017 08 22.40765	03 27 13.69	+03 18 16.7	14.4	N	G39
C/2017 O1	2017 08 22.40839	03 27 13.70	+03 18 18.8	14.4	N	G39
C/2017 O1	2017 08 22.40913	03 27 13.75	+03 18 20.2	14.4	N	G39
C/2017 O1	2017 08 22.40987	03 27 13.85	+03 18 21.2	14.4	N	G39
C/2017 O1	2017 08 22.41087	03 27 13.93	+03 18 23.2	14.4	N	G39
C/2017 O1	2017 08 22.41161	03 27 14.00	+03 18 24.6	14.4	N	G39
C/2017 O1	2017 08 22.41235	03 27 14.09	+03 18 26.1	14.5	N	G39
C/2017 O1	2017 08 22.41309	03 27 14.18	+03 18 27.1	14.4	N	G39
C/2017 O1	2017 08 22.41383	03 27 14.20	+03 18 29.0	14.4	N	G39
C/2017 O1	2017 08 22.41457	03 27 14.25	+03 18 30.2	14.4	N	G39
C/2017 O1	2017 08 22.43858	03 27 16.58	+03 19 09.4	14.2	N	H47
C/2017 O1	2017 08 22.44069	03 27 16.78	+03 19 13.5	14.5	N	H47
C/2017 O1	2017 08 22.44289	03 27 16.98	+03 19 17.7	14.5	N	H47
C/2017 O1	2017 08 22.44552	03 27 17.22	+03 19 22.9	14.6	N	H47
C/2017 O1	2017 08 23.08704	03 28 16.78	+03 40 03.0	15.5	N	K 160
C/2017 O1	2017 08 23.08985	03 28 17.04	+03 40 08.5	15.4	N	K 160
C/2017 O1	2017 08 23.09269	03 28 17.32	+03 40 14.1	15.4	N	K 160
C/2017 O1	2017 08 23.16906	03 28 24.27	+03 42 44.3	13.9	N	213
C/2017 O1	2017 08 23.17089	03 28 24.43	+03 42 47.6	14.0	N	213
C/2017 O1	2017 08 23.17363	03 28 24.60	+03 42 52.4	14.0	N	213
C/2017 O1	2017 08 23.40074	03 28 45.60	+03 50 24.4	14.4	N	G39
C/2017 O1	2017 08 23.40148	03 28 45.69	+03 50 25.4	14.6	N	G39
C/2017 O1	2017 08 23.40222	03 28 45.71	+03 50 27.9	14.6	N	G39
C/2017 O1	2017 08 23.40299	03 28 45.84	+03 50 28.1	14.3	N	G39
C/2017 O1	2017 08 23.40447	03 28 45.98	+03 50 32.8	14.2	N	G39
C/2017 O1	2017 08 23.40565	03 28 46.09	+03 50 33.2	14.5	N	G39
C/2017 O1	2017 08 23.40639	03 28 46.11	+03 50 35.0	14.4	N	G39
C/2017 O1	2017 08 23.40714	03 28 46.15	+03 50 37.0	14.5	N	G39
C/2017 O1	2017 08 23.40788	03 28 46.24	+03 50 38.3	14.5	N	G39
C/2017 O1	2017 08 23.40862	03 28 46.30	+03 50 39.6	14.5	N	G39
C/2017 O1	2017 08 23.41041	03 28 46.48	+03 50 42.4	14.5	N	G39
C/2017 O1	2017 08 23.41115	03 28 46.53	+03 50 44.5	14.5	N	G39
C/2017 O1	2017 08 23.41189	03 28 46.60	+03 50 45.9	14.4	N	G39
C/2017 O1	2017 08 23.41263	03 28 46.66	+03 50 47.4	14.5	N	G39
C/2017 O1	2017 08 23.41337	03 28 46.71	+03 50 48.1	14.5	N	G39
C/2017 O1	2017 08 23.41411	03 28 46.81	+03 50 50.6	14.4	N	G39
C/2017 O1	2017 08 23.45450	03 28 50.51	+03 52 02.3	14.9	N	K H47
C/2017 O1	2017 08 23.45600	03 28 50.67	+03 52 05.0	14.5	N	K H47
C/2017 O1	2017 08 23.45751	03 28 50.87	+03 52 08.6	14.6	N	K H47
C/2017 O1	2017 08 23.99973	03 29 41.18	+04 09 54.8			246
C/2017 O1	2017 08 24.00203	03 29 41.38	+04 09 59.7			246
C/2017 O1	2017 08 24.01691	03 29 42.74	+04 10 29.1			246
C/2017 O1	2017 08 24.01774	03 29 42.82	+04 10 30.8			246
C/2017 O1	2017 08 24.01838	03 29 42.88	+04 10 32.1			246

C/2017 O1	2017 08 24.01866	03 29 42.91	+04 10 32.6			246
C/2017 O1	2017 08 24.05147	03 29 45.90	+04 11 38.4	15.6	N	461
C/2017 O1	2017 08 24.05239	03 29 45.99	+04 11 40.3	15.6	N	461
C/2017 O1	2017 08 24.05331	03 29 46.07	+04 11 42.0	15.6	N	461
C/2017 O1	2017 08 24.05424	03 29 46.14	+04 11 43.7	15.6	N	461
C/2017 O1	2017 08 24.05516	03 29 46.24	+04 11 45.8	15.6	N	461
C/2017 O1	2017 08 24.05609	03 29 46.32	+04 11 47.5	15.6	N	461
C/2017 O1	2017 08 24.05794	03 29 46.49	+04 11 51.0	15.6	N	461
C/2017 O1	2017 08 24.05886	03 29 46.57	+04 11 53.1	15.5	N	461
C/2017 O1	2017 08 24.06937	03 29 47.45	+04 12 13.9	14.2	N	K A71
C/2017 O1	2017 08 24.07599	03 29 48.05	+04 12 27.1	14.3	N	K A71
C/2017 O1	2017 08 24.08261	03 29 48.64	+04 12 40.2	14.2	N	K A71
C/2017 O1	2017 08 24.08923	03 29 49.25	+04 12 53.3	14.3	N	K A71
C/2017 O1	2017 08 24.08968	03 29 49.48	+04 12 54.8	15.1	N	K14
C/2017 O1	2017 08 24.09174	03 29 49.63	+04 12 58.8	14.5	N	K14
C/2017 O1	2017 08 24.09277	03 29 49.77	+04 13 00.8	15.0	N	K14
C/2017 O1	2017 08 24.09378	03 29 49.84	+04 13 02.7	15.0	N	K14
C/2017 O1	2017 08 24.09531	03 29 49.99	+04 13 06.0	15.0	N	K14
C/2017 O1	2017 08 24.11479	03 29 51.71	+04 13 44.4	14.2	N	J01
C/2017 O1	2017 08 24.12008	03 29 52.15	+04 13 54.9	15.6	N	K 160
C/2017 O1	2017 08 24.12283	03 29 52.40	+04 14 00.4	15.6	N	K 160
C/2017 O1	2017 08 24.12560	03 29 52.66	+04 14 05.6	15.6	N	K 160
C/2017 O1	2017 08 24.12831	03 29 52.95	+04 14 11.3	14.1	N	J01
C/2017 O1	2017 08 24.40495	03 30 18.25	+04 23 30.6	14.5	N	G39
C/2017 O1	2017 08 24.40569	03 30 18.34	+04 23 32.2	14.5	N	G39
C/2017 O1	2017 08 24.40645	03 30 18.41	+04 23 33.2	14.5	N	G39
C/2017 O1	2017 08 24.40719	03 30 18.48	+04 23 34.4	14.5	N	G39
C/2017 O1	2017 08 24.40793	03 30 18.54	+04 23 36.3	14.5	N	G39
C/2017 O1	2017 08 24.40965	03 30 18.69	+04 23 39.7	14.5	N	G39
C/2017 O1	2017 08 24.41039	03 30 18.74	+04 23 41.2	14.5	N	G39
C/2017 O1	2017 08 24.41113	03 30 18.77	+04 23 43.4	14.6	N	G39
C/2017 O1	2017 08 24.41187	03 30 18.89	+04 23 45.0	14.5	N	G39
C/2017 O1	2017 08 24.41336	03 30 19.05	+04 23 47.5	14.5	N	G39
C/2017 O1	2017 08 25.12053	03 31 24.35	+04 47 22.0	14.9	N	K14
C/2017 O1	2017 08 25.12535	03 31 24.84	+04 47 31.7	14.8	N	K14
C/2017 O1	2017 08 25.39928	03 31 49.88	+04 56 56.6	14.7	N	G39
C/2017 O1	2017 08 25.40002	03 31 49.91	+04 56 57.5	14.7	N	G39
C/2017 O1	2017 08 25.40076	03 31 49.96	+04 57 00.2	14.8	N	G39
C/2017 O1	2017 08 25.40228	03 31 50.11	+04 57 03.2	14.7	N	G39
C/2017 O1	2017 08 25.40406	03 31 50.27	+04 57 06.0	14.5	N	G39
C/2017 O1	2017 08 25.40480	03 31 50.35	+04 57 07.2	14.5	N	G39
C/2017 O1	2017 08 25.40554	03 31 50.40	+04 57 09.3	14.6	N	G39
C/2017 O1	2017 08 25.40628	03 31 50.42	+04 57 10.0	14.6	N	G39
C/2017 O1	2017 08 25.40703	03 31 50.55	+04 57 12.1	14.5	N	G39
C/2017 O1	2017 08 25.40777	03 31 50.57	+04 57 13.4	14.5	N	G39
C/2017 O1	2017 08 25.40873	03 31 50.66	+04 57 15.4	14.6	N	G39
C/2017 O1	2017 08 25.40947	03 31 50.73	+04 57 16.7	14.6	N	G39
C/2017 O1	2017 08 25.41021	03 31 50.72	+04 57 19.1	14.6	N	G39
C/2017 O1	2017 08 25.41169	03 31 50.83	+04 57 21.4	14.6	N	G39
C/2017 O1	2017 08 25.41243	03 31 50.98	+04 57 23.4	14.6	N	G39
C/2017 O1	2017 08 26.00228	03 32 45.54	+05 17 23.1	14.9	N	L04
C/2017 O1	2017 08 26.00897	03 32 46.11	+05 17 36.8	14.9	N	L04
C/2017 O1	2017 08 26.02383	03 32 47.46	+05 18 07.4	14.9	N	L04
C/2017 O1	2017 08 26.03126	03 32 48.15	+05 18 22.9	14.9	N	L04
C/2017 O1	2017 08 26.03869	03 32 48.80	+05 18 38.0	14.9	N	L04
C/2017 O1	2017 08 26.05294	03 32 50.15	+05 19 06.7	14.5	N	970
C/2017 O1	2017 08 26.05803	03 32 50.59	+05 19 17.4	14.5	N	970
C/2017 O1	2017 08 26.15918	03 32 59.85	+05 22 48.3	13.2	T	2 G40
C/2017 O1	2017 08 26.16012	03 32 59.92	+05 22 50.5	13.5	T	2 G40
C/2017 O1	2017 08 26.16096	03 32 59.99	+05 22 51.9	13.1	T	2 G40
C/2017 O1	2017 08 26.28865	03 33 11.81	+05 27 15.1	15.3	N	I17
C/2017 O1	2017 08 26.29034	03 33 11.96	+05 27 18.7	15.2	N	I17
C/2017 O1	2017 08 26.29204	03 33 12.13	+05 27 22.5	15.3	N	I17
C/2017 O1	2017 08 26.29373	03 33 12.28	+05 27 25.6	15.3	N	I17
C/2017 O1	2017 08 26.29543	03 33 12.43	+05 27 29.1	15.3	N	I17
C/2017 O1	2017 08 26.39933	03 33 21.71	+05 31 13.4	14.8	N	G39
C/2017 O1	2017 08 26.40007	03 33 21.76	+05 31 15.9	14.6	N	G39
C/2017 O1	2017 08 26.40081	03 33 21.77	+05 31 17.2	14.7	N	G39
C/2017 O1	2017 08 26.40157	03 33 21.84	+05 31 18.3	14.3	N	G39
C/2017 O1	2017 08 26.40306	03 33 21.95	+05 31 21.2	14.2	N	G39
C/2017 O1	2017 08 26.40425	03 33 22.11	+05 31 23.5	14.6	N	G39
C/2017 O1	2017 08 26.40498	03 33 22.21	+05 31 25.2	14.5	N	G39
C/2017 O1	2017 08 26.40573	03 33 22.29	+05 31 27.0	14.6	N	G39
C/2017 O1	2017 08 26.40721	03 33 22.41	+05 31 29.5	14.5	N	G39
C/2017 O1	2017 08 26.40795	03 33 22.41	+05 31 31.3	14.6	N	G39
C/2017 O1	2017 08 26.40896	03 33 22.49	+05 31 33.4	14.6	N	G39
C/2017 O1	2017 08 26.40971	03 33 22.64	+05 31 35.2	14.6	N	G39
C/2017 O1	2017 08 26.41045	03 33 22.68	+05 31 36.1	14.6	N	G39
C/2017 O1	2017 08 26.41119	03 33 22.76	+05 31 37.6	14.6	N	G39
C/2017 O1	2017 08 26.41193	03 33 22.83	+05 31 39.6	14.6	N	G39
C/2017 O1	2017 08 26.41267	03 33 22.92	+05 31 40.4	14.7	N	G39
C/2017 O1	2017 08 26.71004	03 33 50.43	+05 41 53.2	10.8	T	D95
C/2017 O1	2017 08 26.71297	03 33 50.67	+05 41 59.1			D95
C/2017 O1	2017 08 26.71737	03 33 51.09	+05 42 08.2			D95
C/2017 O1	2017 08 26.78264	03 33 56.95	+05 44 25.0			367
C/2017 O1	2017 08 26.78750	03 33 57.37	+05 44 35.3			367
C/2017 O1	2017 08 26.78953	03 33 57.55	+05 44 39.4	10.9	T	367
C/2017 O1	2017 08 27.12921	03 34 28.74	+05 56 33.1	14.7	N	K A77
C/2017 O1	2017 08 27.14318	03 34 30.01	+05 57 02.8	14.7	N	K A77
C/2017 O1	2017 08 27.15879	03 34 31.38	+05 57 35.8	12.1	T	K A77
C/2017 O1	2017 08 27.39865	03 34 53.21	+06 06 10.7	14.7	N	G39
C/2017 O1	2017 08 27.39939	03 34 53.28	+06 06 12.1	14.7	N	G39
C/2017 O1	2017 08 27.40013	03 34 53.36	+06 06 14.0	14.7	N	G39
C/2017 O1	2017 08 27.40164	03 34 53.48	+06 06 17.3	14.7	N	G39
C/2017 O1	2017 08 27.40238	03 34 53.61	+06 06 19.7	14.3	N	G39
C/2017 O1	2017 08 27.40358	03 34 53.65	+06 06 20.6	14.6	N	G39
C/2017 O1	2017 08 27.40432	03 34 53.70	+06 06 22.1	14.6	N	G39
C/2017 O1	2017 08 27.40507	03 34 53.76	+06 06 24.1	14.6	N	G39
C/2017 O1	2017 08 27.40581	03 34 53.82	+06 06 25.6	14.6	N	G39
C/2017 O1	2017 08 27.40655	03 34 53.84	+06 06 26.9	14.7	N	G39
C/2017 O1	2017 08 27.40829	03 34 54.08	+06 06 31.0	14.6	N	G39
C/2017 O1	2017 08 27.40903	03 34 54.13	+06 06 32.6	14.6	N	G39
C/2017 O1	2017 08 27.40977	03 34 54.21	+06 06 33.6	14.6	N	G39
C/2017 O1	2017 08 27.41051	03 34 54.25	+06 06 35.2	14.7	N	G39
C/2017 O1	2017 08 27.41125	03 34 54.31	+06 06 36.8	14.7	N	G39
C/2017 O1	2017 08 27.41199	03 34 54.39	+06 06 38.2	14.7	N	G39

C/2017 O1	2017 08 28.09186	03 35 56.99	+06 30 42.4	14.2	N	J22
C/2017 O1	2017 08 28.09447	03 35 57.20	+06 30 47.8	14.2	N	J22
C/2017 O1	2017 08 28.09532	03 35 57.27	+06 30 49.4	14.2	N	J22
C/2017 O1	2017 08 28.39794	03 36 24.51	+06 41 49.3	14.8	N	G39
C/2017 O1	2017 08 28.39868	03 36 24.57	+06 41 50.8	14.9	N	G39
C/2017 O1	2017 08 28.39942	03 36 24.67	+06 41 52.2	14.8	N	G39
C/2017 O1	2017 08 28.40094	03 36 24.79	+06 41 55.0	14.4	N	G39
C/2017 O1	2017 08 28.40168	03 36 24.85	+06 41 58.2	14.4	N	G39
C/2017 O1	2017 08 28.40272	03 36 24.92	+06 42 00.0	14.7	N	G39
C/2017 O1	2017 08 28.40346	03 36 25.01	+06 42 01.8	14.7	N	G39
C/2017 O1	2017 08 28.40420	03 36 25.06	+06 42 03.2	14.6	N	G39
C/2017 O1	2017 08 28.40494	03 36 25.05	+06 42 04.8	14.6	N	G39
C/2017 O1	2017 08 28.40568	03 36 25.21	+06 42 06.2	14.6	N	G39
C/2017 O1	2017 08 28.40642	03 36 25.28	+06 42 07.6	14.6	N	G39
C/2017 O1	2017 08 28.40742	03 36 25.34	+06 42 10.4	14.6	N	G39
C/2017 O1	2017 08 28.40816	03 36 25.41	+06 42 11.4	14.6	N	G39
C/2017 O1	2017 08 28.40890	03 36 25.39	+06 42 12.4	14.7	N	G39
C/2017 O1	2017 08 28.40964	03 36 25.52	+06 42 14.8	14.6	N	G39
C/2017 O1	2017 08 28.41038	03 36 25.60	+06 42 16.3	14.7	N	G39
C/2017 O1	2017 08 28.41112	03 36 25.64	+06 42 17.6	14.6	N	G39
C/2017 O1	2017 08 28.76899	03 36 58.46	+06 55 16.2	15.6	N	6 Q62
C/2017 O1	2017 08 28.76981	03 36 58.49	+06 55 17.3	15.6	N	6 Q62
C/2017 O1	2017 08 28.77062	03 36 58.62	+06 55 19.5	15.6	N	6 Q62
C/2017 O1	2017 08 28.77144	03 36 58.65	+06 55 20.8	15.5	N	6 Q62
C/2017 O1	2017 08 28.77225	03 36 58.69	+06 55 22.6	15.6	N	6 Q62
C/2017 O1	2017 08 28.77346	03 36 58.80	+06 55 25.4	15.7	N	6 Q62
C/2017 O1	2017 08 28.77427	03 36 58.90	+06 55 27.3	15.6	N	6 Q62
C/2017 O1	2017 08 28.77589	03 36 59.07	+06 55 30.9	15.7	N	6 Q62
C/2017 O1	2017 08 28.77670	03 36 59.12	+06 55 32.3	15.7	N	6 Q62
C/2017 O1	2017 08 29.00500	03 37 20.14	+07 03 40.1			246
C/2017 O1	2017 08 29.00610	03 37 20.23	+07 03 42.2			246
C/2017 O1	2017 08 29.00854	03 37 20.43	+07 03 47.8			246
C/2017 O1	2017 08 29.03188	03 37 22.53	+07 04 38.1	15.0	N	K Z80
C/2017 O1	2017 08 29.03471	03 37 22.83	+07 04 45.0	15.0	N	K Z80
C/2017 O1	2017 08 29.03753	03 37 23.05	+07 04 50.3	14.6	N	K Z80
C/2017 O1	2017 08 29.04035	03 37 23.32	+07 04 57.4	14.8	N	K Z80
C/2017 O1	2017 08 29.04168	03 37 23.42	+07 05 00.3			246
C/2017 O1	2017 08 29.04255	03 37 23.48	+07 05 02.2			246
C/2017 O1	2017 08 29.04296	03 37 23.53	+07 05 03.2			246
C/2017 O1	2017 08 29.04317	03 37 23.60	+07 05 03.6	14.8	N	K Z80
C/2017 O1	2017 08 29.04347	03 37 23.57	+07 05 04.2			246
C/2017 O1	2017 08 29.05613	03 37 24.77	+07 05 32.3	15.0	N	C23
C/2017 O1	2017 08 29.05987	03 37 25.09	+07 05 40.4	14.9	N	C23
C/2017 O1	2017 08 29.06436	03 37 25.49	+07 05 50.2	14.4	N	C23
C/2017 O1	2017 08 30.10779	03 39 00.33	+07 44 19.9	14.2	N	I81
C/2017 O1	2017 08 30.11132	03 39 00.72	+07 44 30.1	14.5	N	K A77
C/2017 O1	2017 08 30.11363	03 39 00.94	+07 44 34.9	14.6	N	K A77
C/2017 O1	2017 08 30.11595	03 39 01.13	+07 44 40.3	14.5	N	K A77
C/2017 O1	2017 08 30.12209	03 39 01.60	+07 44 52.1	14.9	N	I81
C/2017 O1	2017 08 30.13597	03 39 02.88	+07 45 23.0	14.8	N	I81
C/2017 O1	2017 08 30.36797	03 39 23.87	+07 54 15.0	14.4	N	W96
C/2017 O1	2017 08 30.39223	03 39 25.97	+07 55 09.2	14.6	N	W96
C/2017 O1	2017 08 30.40289	03 39 26.94	+07 55 33.1	14.8	N	G39
C/2017 O1	2017 08 30.40363	03 39 27.00	+07 55 35.3	14.9	N	G39
C/2017 O1	2017 08 30.40437	03 39 27.04	+07 55 36.3	14.8	N	G39
C/2017 O1	2017 08 30.40514	03 39 27.15	+07 55 38.5	14.5	N	G39
C/2017 O1	2017 08 30.40589	03 39 27.20	+07 55 39.3	14.6	N	G39
C/2017 O1	2017 08 30.40764	03 39 27.36	+07 55 43.7	14.7	N	G39
C/2017 O1	2017 08 30.40838	03 39 27.38	+07 55 45.4	14.7	N	G39
C/2017 O1	2017 08 30.40913	03 39 27.53	+07 55 46.5	14.7	N	G39
C/2017 O1	2017 08 30.40987	03 39 27.56	+07 55 48.8	14.7	N	G39
C/2017 O1	2017 08 30.41061	03 39 27.62	+07 55 50.3	14.6	N	G39
C/2017 O1	2017 08 30.41135	03 39 27.69	+07 55 52.1	14.7	N	G39
C/2017 O1	2017 08 30.41236	03 39 27.78	+07 55 54.3	14.7	N	G39
C/2017 O1	2017 08 30.41310	03 39 27.78	+07 55 55.3	14.7	N	G39
C/2017 O1	2017 08 30.41384	03 39 27.91	+07 55 57.6	14.7	N	G39
C/2017 O1	2017 08 30.41458	03 39 27.98	+07 55 58.8	14.7	N	G39
C/2017 O1	2017 08 30.41532	03 39 28.07	+07 56 00.5	14.7	N	G39
C/2017 O1	2017 08 30.41606	03 39 28.07	+07 56 03.1	14.7	N	G39
C/2017 O1	2017 08 31.10279	03 40 30.54	+08 21 50.5	15.1	N	L04
C/2017 O1	2017 08 31.10398	03 40 30.61	+08 21 53.2	15.0	N	L04
C/2017 O1	2017 08 31.10556	03 40 30.76	+08 21 56.5	15.0	N	L04
C/2017 O1	2017 08 31.10713	03 40 30.91	+08 22 00.4	15.0	N	L04
C/2017 O1	2017 08 31.10911	03 40 31.08	+08 22 04.9	15.1	N	L04
C/2017 O1	2017 08 31.17057	03 40 36.81	+08 24 27.5	14.7	N	9 G40
C/2017 O1	2017 08 31.17391	03 40 37.12	+08 24 34.7	14.7	N	9 G40
C/2017 O1	2017 08 31.17744	03 40 37.46	+08 24 42.9	14.7	N	9 G40
C/2017 O1	2017 08 31.17971	03 40 37.64	+08 24 48.0	14.7	N	9 G40
C/2017 O1	2017 08 31.18434	03 40 38.06	+08 24 58.8	14.6	N	9 G40
C/2017 O1	2017 08 31.40214	03 40 57.51	+08 33 25.6	14.9	N	G39
C/2017 O1	2017 08 31.40589	03 40 57.85	+08 33 34.3	14.4	N	G39
C/2017 O1	2017 08 31.40841	03 40 58.08	+08 33 39.7	14.7	N	G39
C/2017 O1	2017 08 31.41064	03 40 58.26	+08 33 44.4	14.7	N	G39
C/2017 O1	2017 08 31.41311	03 40 58.46	+08 33 50.7	14.7	N	G39
C/2017 O1	2017 08 31.41534	03 40 58.66	+08 33 55.9	14.7	N	G39
C/2017 O1	2017 08 31.73819	03 41 28.22	+08 46 12.3			372
C/2017 O1	2017 08 31.74861	03 41 29.14	+08 46 36.4			372
C/2017 O1	2017 08 31.76441	03 41 30.53	+08 47 12.9	10.1	T	372
C/2017 O1	2017 09 01.04243	03 41 55.66	+08 57 54.9	14.2	N	I81
C/2017 O1	2017 09 01.04811	03 41 56.21	+08 58 08.6	14.9	N	I81
C/2017 O1	2017 09 01.05521	03 41 56.83	+08 58 24.7	14.9	N	I81
C/2017 O1	2017 09 01.07651	03 41 58.73	+08 59 15.5	14.5	N	C10
C/2017 O1	2017 09 01.08598	03 41 59.52	+08 59 38.0	15.2	N	461
C/2017 O1	2017 09 01.08691	03 41 59.60	+08 59 40.2	15.3	N	461
C/2017 O1	2017 09 01.08767	03 41 59.75	+08 59 41.7	14.6	N	C10
C/2017 O1	2017 09 01.08784	03 41 59.68	+08 59 42.4	15.2	N	461
C/2017 O1	2017 09 01.08876	03 41 59.77	+08 59 44.4	15.2	N	461
C/2017 O1	2017 09 01.08969	03 41 59.84	+08 59 46.6	15.2	N	461
C/2017 O1	2017 09 01.09061	03 41 59.93	+08 59 48.8	15.4	N	461
C/2017 O1	2017 09 01.09245	03 42 00.09	+08 59 53.2	15.2	N	461
C/2017 O1	2017 09 01.09338	03 42 00.17	+08 59 55.3	15.2	N	461
C/2017 O1	2017 09 01.11521	03 42 02.19	+09 00 45.7	14.8	N	C23
C/2017 O1	2017 09 01.11970	03 42 02.58	+09 00 55.9	15.0	N	C23
C/2017 O1	2017 09 01.12494	03 42 03.05	+09 01 08.3	14.6	N	C23
C/2017 O1	2017 09 01.14189	03 42 04.54	+09 01 48.0	14.6	N	C10
C/2017 O1	2017 09 01.15379	03 42 05.63	+09 02 16.1	14.6	N	C10

C/2017 O1	2017 09 01.40142	03 42 27.82	+09 12 04.2	14.8	N	G39
C/2017 O1	2017 09 01.40368	03 42 28.01	+09 12 09.8	14.5	N	G39
C/2017 O1	2017 09 01.40766	03 42 28.40	+09 12 19.3	14.7	N	G39
C/2017 O1	2017 09 01.40988	03 42 28.60	+09 12 24.3	14.7	N	G39
C/2017 O1	2017 09 01.41238	03 42 28.79	+09 12 30.8	14.7	N	G39
C/2017 O1	2017 09 01.41461	03 42 29.01	+09 12 35.1	14.7	N	G39
C/2017 O1	2017 09 01.42069	03 42 29.83	+09 12 41.5	14.6	N	e H06
C/2017 O1	2017 09 01.42468	03 42 30.16	+09 12 50.9	14.6	N	e H06
C/2017 O1	2017 09 01.74994	03 42 59.53	+09 25 36.4			367
C/2017 O1	2017 09 01.75237	03 42 59.74	+09 25 42.1			367
C/2017 O1	2017 09 01.75480	03 42 59.96	+09 25 47.8	10.6	T	367
C/2017 O1	2017 09 02.02766	03 43 24.62	+09 36 31.2	14.4	N	I81
C/2017 O1	2017 09 02.02853	03 43 24.67	+09 36 33.0	14.8	N	I81
C/2017 O1	2017 09 02.03137	03 43 24.92	+09 36 41.0	14.7	N	I81
C/2017 O1	2017 09 02.35150	03 43 53.61	+09 49 34.0	14.8	N	W96
C/2017 O1	2017 09 02.37816	03 43 55.93	+09 50 37.8	14.8	N	W96
C/2017 O1	2017 09 02.40074	03 43 57.91	+09 51 32.3	14.9	N	G39
C/2017 O1	2017 09 02.40449	03 43 58.25	+09 51 41.6	14.5	N	G39
C/2017 O1	2017 09 02.40698	03 43 58.50	+09 51 46.4	14.7	N	G39
C/2017 O1	2017 09 02.40921	03 43 58.68	+09 51 51.2	14.8	N	G39
C/2017 O1	2017 09 02.41167	03 43 58.82	+09 51 57.8	14.8	N	G39
C/2017 O1	2017 09 02.41389	03 43 59.09	+09 52 02.8	14.7	N	G39
C/2017 O1	2017 09 02.70781	03 44 25.87	+10 03 40.5			349
C/2017 O1	2017 09 02.70933	03 44 26.01	+10 03 44.3	15.3	N	K Q21
C/2017 O1	2017 09 02.71278	03 44 26.30	+10 03 52.4			349
C/2017 O1	2017 09 02.71461	03 44 26.54	+10 03 57.5	15.5	N	K Q21
C/2017 O1	2017 09 02.71772	03 44 26.73	+10 04 04.4	10.3	T	349
C/2017 O1	2017 09 02.72517	03 44 27.42	+10 04 23.1	15.5	N	K Q21
C/2017 O1	2017 09 02.74190	03 44 28.85	+10 05 01.3	10.3	T	D95
C/2017 O1	2017 09 02.74483	03 44 29.10	+10 05 08.5			D95
C/2017 O1	2017 09 02.75216	03 44 29.74	+10 05 26.7			D95
C/2017 O1	2017 09 02.79056	03 44 33.11	+10 07 00.4			D81
C/2017 O1	2017 09 02.79132	03 44 33.19	+10 07 02.6			D81
C/2017 O1	2017 09 02.79208	03 44 33.21	+10 07 04.9			D81
C/2017 O1	2017 09 02.79284	03 44 33.31	+10 07 06.9	9.8	T	D81
C/2017 O1	2017 09 03.09290	03 45 00.37	+10 19 08.5	15.0	N	I81
C/2017 O1	2017 09 03.09717	03 45 00.69	+10 19 19.0	15.1	N	I81
C/2017 O1	2017 09 03.10001	03 45 01.13	+10 19 27.0	14.9	N	I81
C/2017 O1	2017 09 03.10647	03 45 01.61	+10 19 41.8	16.0	N	K02
C/2017 O1	2017 09 03.11266	03 45 02.21	+10 19 57.4	15.7	N	K02
C/2017 O1	2017 09 03.11885	03 45 02.74	+10 20 11.9	15.8	N	K02
C/2017 O1	2017 09 03.39603	03 45 27.62	+10 31 29.6	15.2	N	K H47
C/2017 O1	2017 09 03.40005	03 45 27.72	+10 31 47.8	14.9	N	G39
C/2017 O1	2017 09 03.40280	03 45 28.19	+10 31 46.0	15.1	N	K H47
C/2017 O1	2017 09 03.40304	03 45 28.06	+10 31 54.6	14.5	N	G39
C/2017 O1	2017 09 03.40632	03 45 28.32	+10 32 02.7	14.8	N	G39
C/2017 O1	2017 09 03.40855	03 45 28.56	+10 32 07.7	14.8	N	G39
C/2017 O1	2017 09 03.40951	03 45 28.76	+10 32 02.3	14.8	N	K H47
C/2017 O1	2017 09 03.41105	03 45 28.73	+10 32 14.1	14.8	N	G39
C/2017 O1	2017 09 03.41328	03 45 28.91	+10 32 19.6	14.8	N	G39
C/2017 O1	2017 09 03.75538	03 45 59.93	+10 46 10.1	9.9	T	372
C/2017 O1	2017 09 03.76007	03 46 00.34	+10 46 21.7			372
C/2017 O1	2017 09 04.15931	03 46 36.04	+11 02 47.0	14.4	N	J01
C/2017 O1	2017 09 04.16979	03 46 37.00	+11 03 12.9	14.4	N	J01
C/2017 O1	2017 09 04.17338	03 46 37.29	+11 03 23.0	13.6	T	2 G40
C/2017 O1	2017 09 04.17431	03 46 37.44	+11 03 25.6	13.5	T	2 G40
C/2017 O1	2017 09 04.17524	03 46 37.48	+11 03 28.1	14.0	T	2 G40
C/2017 O1	2017 09 04.17619	03 46 37.61	+11 03 30.2	13.6	T	2 G40
C/2017 O1	2017 09 04.17713	03 46 37.69	+11 03 32.8	13.5	T	2 G40
C/2017 O1	2017 09 04.17808	03 46 37.74	+11 03 35.1	13.3	T	2 G40
C/2017 O1	2017 09 04.18627	03 46 38.38	+11 03 53.5	14.4	N	J01
C/2017 O1	2017 09 04.40420	03 46 57.78	+11 13 05.4	14.7	N	G39
C/2017 O1	2017 09 04.40494	03 46 57.92	+11 13 07.5	14.9	N	G39
C/2017 O1	2017 09 04.44185	03 47 01.22	+11 14 30.4	14.8	N	H47
C/2017 O1	2017 09 04.45289	03 47 02.18	+11 14 58.4	14.8	N	H47
C/2017 O1	2017 09 04.45600	03 47 02.50	+11 15 06.2	15.1	N	H47
C/2017 O1	2017 09 04.45833	03 47 02.68	+11 15 12.1	14.9	N	H47
C/2017 O1	2017 09 04.45990	03 47 02.78	+11 15 15.5	14.5	N	H47
C/2017 O1	2017 09 05.14484	03 48 04.28	+11 43 56.3	14.8	N	K A77
C/2017 O1	2017 09 05.14894	03 48 04.62	+11 44 07.4	14.7	N	K A77
C/2017 O1	2017 09 05.15304	03 48 04.94	+11 44 17.8	14.6	N	K A77
C/2017 O1	2017 09 05.39863	03 48 26.73	+11 54 48.7	14.9	N	G39
C/2017 O1	2017 09 05.39938	03 48 26.77	+11 54 51.7	14.9	N	G39
C/2017 O1	2017 09 05.40012	03 48 26.87	+11 54 54.0	14.9	N	G39
C/2017 O1	2017 09 05.40490	03 48 27.26	+11 55 05.3	14.7	N	G39
C/2017 O1	2017 09 05.40712	03 48 27.48	+11 55 10.5	14.8	N	G39
C/2017 O1	2017 09 05.40962	03 48 27.66	+11 55 18.1	14.7	N	G39
C/2017 O1	2017 09 05.41184	03 48 27.82	+11 55 23.0	14.7	N	G39
C/2017 O1	2017 09 05.43780	03 48 30.28	+11 56 20.9	15.0	N	K H47
C/2017 O1	2017 09 05.44417	03 48 30.84	+11 56 37.3	15.0	N	K H47
C/2017 O1	2017 09 05.45097	03 48 31.42	+11 56 54.5	14.9	N	K H47
C/2017 O1	2017 09 05.45649	03 48 31.90	+11 57 08.6	14.8	N	K H47
C/2017 O1	2017 09 06.39866	03 49 55.85	+12 37 40.3	14.9	N	G39
C/2017 O1	2017 09 06.40014	03 49 56.06	+12 37 43.5	14.9	N	G39
C/2017 O1	2017 09 06.40491	03 49 56.40	+12 37 55.5	14.8	N	G39
C/2017 O1	2017 09 06.40713	03 49 56.51	+12 38 02.5	14.9	N	G39
C/2017 O1	2017 09 06.40961	03 49 56.75	+12 38 09.1	14.8	N	G39
C/2017 O1	2017 09 06.41183	03 49 57.03	+12 38 13.4	14.9	N	G39
C/2017 O1	2017 09 07.14983	03 51 03.04	+13 10 16.7	14.7	N	9 G40
C/2017 O1	2017 09 07.15311	03 51 03.33	+13 10 25.8	14.7	N	9 G40
C/2017 O1	2017 09 07.15538	03 51 03.51	+13 10 31.6	14.7	N	9 G40
C/2017 O1	2017 09 07.15884	03 51 03.81	+13 10 41.0	14.7	N	9 G40
C/2017 O1	2017 09 07.16230	03 51 04.13	+13 10 49.8	14.7	N	9 G40
C/2017 O1	2017 09 07.39797	03 51 24.71	+13 21 20.9	14.9	N	G39
C/2017 O1	2017 09 07.40022	03 51 24.89	+13 21 27.4	14.6	N	G39
C/2017 O1	2017 09 07.40502	03 51 25.34	+13 21 39.4	14.8	N	G39
C/2017 O1	2017 09 07.40833	03 51 25.58	+13 21 49.0	14.8	N	G39
C/2017 O1	2017 09 07.41130	03 51 25.87	+13 21 55.8	14.9	N	G39
C/2017 O1	2017 09 08.00331	03 52 18.70	+13 48 03.6	14.4	N	585
C/2017 O1	2017 09 08.00367	03 52 18.73	+13 48 04.8	14.3	N	585
C/2017 O1	2017 09 08.00403	03 52 18.75	+13 48 05.7	14.4	N	585
C/2017 O1	2017 09 08.00440	03 52 18.78	+13 48 06.7	14.3	N	585
C/2017 O1	2017 09 08.00476	03 52 18.81	+13 48 07.7	14.4	N	585
C/2017 O1	2017 09 08.00512	03 52 18.84	+13 48 08.5	14.4	N	585
C/2017 O1	2017 09 08.00548	03 52 18.88	+13 48 09.6	14.3	N	585
C/2017 O1	2017 09 08.00584	03 52 18.90	+13 48 10.5	14.3	N	585

C/2017 O1	2017 09 08.00620	03 52 18.92	+13 48 11.3	14.2	N	585
C/2017 O1	2017 09 08.00656	03 52 18.98	+13 48 12.4	14.3	N	585
C/2017 O1	2017 09 08.00692	03 52 19.00	+13 48 13.5	14.3	N	585
C/2017 O1	2017 09 08.00729	03 52 19.05	+13 48 14.5	14.3	N	585
C/2017 O1	2017 09 08.00771	03 52 19.06	+13 48 16.4	14.3	N	585
C/2017 O1	2017 09 08.00807	03 52 19.10	+13 48 16.6	14.3	N	585
C/2017 O1	2017 09 08.30373	03 52 45.33	+14 01 42.9	14.7	N	W96
C/2017 O1	2017 09 08.30912	03 52 45.85	+14 01 57.4	14.8	N	W96
C/2017 O1	2017 09 08.31450	03 52 46.25	+14 02 12.0	14.8	N	W96
C/2017 O1	2017 09 08.39735	03 52 53.27	+14 05 55.8	15.0	N	G39
C/2017 O1	2017 09 08.40035	03 52 53.53	+14 06 04.2	14.6	N	G39
C/2017 O1	2017 09 08.40433	03 52 53.88	+14 06 14.7	14.8	N	G39
C/2017 O1	2017 09 08.40757	03 52 54.15	+14 06 23.9	14.8	N	G39
C/2017 O1	2017 09 08.41053	03 52 54.42	+14 06 31.4	14.8	N	G39
C/2017 O1	2017 09 09.39661	03 54 21.56	+14 51 25.4	14.9	N	G39
C/2017 O1	2017 09 09.39809	03 54 21.68	+14 51 29.8	15.0	N	G39
C/2017 O1	2017 09 09.40361	03 54 22.20	+14 51 44.2	14.8	N	G39
C/2017 O1	2017 09 09.40684	03 54 22.46	+14 51 53.3	14.9	N	G39
C/2017 O1	2017 09 09.40980	03 54 22.70	+14 52 01.9	14.9	N	G39
C/2017 O1	2017 09 10.02534	03 55 17.39	+15 20 18.6	16.0	N	K02
C/2017 O1	2017 09 10.02972	03 55 17.81	+15 20 31.8	15.6	N	K02
C/2017 O1	2017 09 10.03557	03 55 18.32	+15 20 47.6	15.7	N	K02
C/2017 O1	2017 09 10.05192	03 55 19.69	+15 21 33.9	14.8	N	C23
C/2017 O1	2017 09 10.05716	03 55 20.14	+15 21 48.5	14.7	N	C23
C/2017 O1	2017 09 10.06315	03 55 20.65	+15 22 05.4	14.8	N	C23
C/2017 O1	2017 09 13.08848	03 59 45.49	+17 47 25.8	14.7	N	107
C/2017 O1	2017 09 13.10212	03 59 46.62	+17 48 06.2	15.3	N	107
C/2017 O1	2017 09 13.11632	03 59 47.83	+17 48 48.5	15.3	N	107
C/2017 O1	2017 09 13.13051	03 59 49.05	+17 49 30.7	14.8	N	107
C/2017 O1	2017 09 13.14470	03 59 50.23	+17 50 13.0	14.9	N	107
C/2017 O1	2017 09 13.15890	03 59 51.40	+17 50 55.2	15.0	N	107
C/2017 O1	2017 09 13.17981	03 59 53.45	+17 51 59.7	14.5	T	2 G40
C/2017 O1	2017 09 13.18102	03 59 53.56	+17 52 03.3	14.5	T	2 G40
C/2017 O1	2017 09 13.18222	03 59 53.66	+17 52 06.9	14.5	T	2 G40
C/2017 O1	2017 09 14.01266	04 01 06.13	+18 33 33.5	14.4	N	J01
C/2017 O1	2017 09 14.01567	04 01 06.40	+18 33 43.2	14.4	N	J01
C/2017 O1	2017 09 14.02169	04 01 06.92	+18 34 01.2	14.5	N	J01
C/2017 O1	2017 09 14.39309	04 01 38.55	+18 52 58.9	14.7	N	G39
C/2017 O1	2017 09 14.39861	04 01 39.01	+18 53 16.6	14.8	N	G39
C/2017 O1	2017 09 14.40257	04 01 39.37	+18 53 28.9	14.8	N	G39
C/2017 O1	2017 09 14.40627	04 01 39.65	+18 53 39.4	14.8	N	G39
C/2017 O1	2017 09 14.97066	04 02 28.96	+19 22 15.9	14.3	N	585
C/2017 O1	2017 09 14.97102	04 02 28.99	+19 22 16.9	14.2	N	585
C/2017 O1	2017 09 14.97138	04 02 29.01	+19 22 18.0	14.2	N	585
C/2017 O1	2017 09 14.97275	04 02 29.07	+19 22 23.0	14.2	N	585
C/2017 O1	2017 09 14.97311	04 02 29.18	+19 22 22.9	13.9	N	585
C/2017 O1	2017 09 14.97348	04 02 29.20	+19 22 24.4	13.9	N	585
C/2017 O1	2017 09 14.97384	04 02 29.17	+19 22 26.0	14.1	N	585
C/2017 O1	2017 09 14.97420	04 02 29.26	+19 22 27.0	13.9	N	585
C/2017 O1	2017 09 14.97457	04 02 29.26	+19 22 28.7	14.2	N	585
C/2017 O1	2017 09 14.97493	04 02 29.27	+19 22 29.1	14.2	N	585
C/2017 O1	2017 09 15.06679	04 02 37.21	+19 27 11.7	14.7	N	970
C/2017 O1	2017 09 15.08121	04 02 38.40	+19 27 56.2	14.6	N	970
C/2017 O1	2017 09 15.12049	04 02 41.77	+19 29 58.1	15.8	N	K02
C/2017 O1	2017 09 15.12513	04 02 42.17	+19 30 12.9	15.8	N	K02
C/2017 O1	2017 09 15.13289	04 02 42.79	+19 30 36.4	15.7	N	K02
C/2017 O1	2017 09 15.38365	04 03 04.27	+19 43 44.2	14.7	N	W96
C/2017 O1	2017 09 15.39014	04 03 04.81	+19 44 04.3	12.1	T	W96
C/2017 O1	2017 09 15.39237	04 03 05.01	+19 44 11.2	14.8	N	G39
C/2017 O1	2017 09 15.39537	04 03 05.23	+19 44 21.2	14.7	N	G39
C/2017 O1	2017 09 15.39617	04 03 05.28	+19 44 23.0	14.7	N	W96
C/2017 O1	2017 09 15.39861	04 03 05.49	+19 44 31.0	14.9	N	G39
C/2017 O1	2017 09 15.40084	04 03 05.66	+19 44 38.2	14.9	N	G39
C/2017 O1	2017 09 15.40332	04 03 05.88	+19 44 45.2	14.9	N	G39
C/2017 O1	2017 09 15.40554	04 03 06.06	+19 44 51.9	14.8	N	G39
C/2017 O1	2017 09 15.68790	04 03 30.87	+19 59 21.0			D95
C/2017 O1	2017 09 15.69302	04 03 31.29	+19 59 37.0			D95
C/2017 O1	2017 09 15.69667	04 03 31.59	+19 59 48.2	10.3	T	D95
C/2017 O1	2017 09 16.01765	04 03 59.27	+20 16 30.8	14.9	N	C23
C/2017 O1	2017 09 16.02513	04 03 59.94	+20 16 54.2	14.9	N	C23
C/2017 O1	2017 09 16.03187	04 04 00.46	+20 17 16.0	14.5	N	C23
C/2017 O1	2017 09 16.05464	04 04 02.51	+20 18 28.3	14.3	N	J01
C/2017 O1	2017 09 16.06263	04 04 03.20	+20 18 53.9	14.3	N	J01
C/2017 O1	2017 09 16.08179	04 04 04.79	+20 19 53.7	14.3	N	J01
C/2017 O1	2017 09 16.23053	04 04 17.26	+20 27 45.5	14.3	N	J22
C/2017 O1	2017 09 16.23243	04 04 17.38	+20 27 51.3	14.3	N	J22
C/2017 O1	2017 09 16.23428	04 04 17.57	+20 27 56.4	14.3	N	J22
C/2017 O1	2017 09 16.39169	04 04 31.01	+20 36 22.9	14.9	N	G39
C/2017 O1	2017 09 16.39469	04 04 31.27	+20 36 31.9	14.6	N	G39
C/2017 O1	2017 09 16.39794	04 04 31.54	+20 36 42.3	14.8	N	G39
C/2017 O1	2017 09 16.40016	04 04 31.70	+20 36 49.4	14.9	N	G39
C/2017 O1	2017 09 16.40266	04 04 31.93	+20 36 56.4	14.9	N	G39
C/2017 O1	2017 09 16.40488	04 04 32.11	+20 37 04.1	14.9	N	G39
C/2017 O1	2017 09 17.01133	04 05 24.52	+21 09 01.7	14.0	N	585
C/2017 O1	2017 09 17.01203	04 05 24.53	+21 09 03.7	13.9	N	585
C/2017 O1	2017 09 17.01274	04 05 24.55	+21 09 05.9	14.0	N	585
C/2017 O1	2017 09 17.01347	04 05 24.67	+21 09 08.5	14.0	N	585
C/2017 O1	2017 09 17.01418	04 05 24.74	+21 09 09.7	14.0	N	585
C/2017 O1	2017 09 17.01489	04 05 24.75	+21 09 13.1	13.9	N	585
C/2017 O1	2017 09 17.01560	04 05 24.80	+21 09 15.3	14.0	N	585
C/2017 O1	2017 09 17.01632	04 05 24.87	+21 09 17.6	14.0	N	585
C/2017 O1	2017 09 17.01703	04 05 24.96	+21 09 20.0	14.1	N	585
C/2017 O1	2017 09 17.01774	04 05 25.02	+21 09 22.1	14.1	N	585
C/2017 O1	2017 09 17.02081	04 05 25.26	+21 09 32.0	14.0	N	585
C/2017 O1	2017 09 17.02152	04 05 25.31	+21 09 34.1	14.0	N	585
C/2017 O1	2017 09 17.02224	04 05 25.37	+21 09 36.3	14.0	N	585
C/2017 O1	2017 09 17.02295	04 05 25.41	+21 09 38.9	14.0	N	585
C/2017 O1	2017 09 17.02366	04 05 25.48	+21 09 41.0	14.1	N	585
C/2017 O1	2017 09 17.02437	04 05 25.54	+21 09 43.2	14.1	N	585
C/2017 O1	2017 09 17.02509	04 05 25.58	+21 09 45.8	14.0	N	585
C/2017 O1	2017 09 17.08362	04 05 30.67	+21 12 51.3	14.9	N	I81
C/2017 O1	2017 09 17.08815	04 05 31.03	+21 13 05.4	14.9	N	I81
C/2017 O1	2017 09 17.09241	04 05 31.36	+21 13 18.2	14.9	N	I81
C/2017 O1	2017 09 17.28314	04 05 47.85	+21 23 45.1	14.7	N	W96
C/2017 O1	2017 09 17.31872	04 05 50.73	+21 25 41.2	14.4	N	K I47
C/2017 O1	2017 09 17.33045	04 05 51.75	+21 26 19.3	14.5	N	K I47

C/2017 O1	2017 09 17.33135	04 05 51.78	+21 26 20.8	14.7	N	W96
C/2017 O1	2017 09 17.34205	04 05 52.66	+21 26 55.8	14.4	N	K I47
C/2017 O1	2017 09 17.35404	04 05 53.60	+21 27 35.2	14.4	N	K I47
C/2017 O1	2017 09 17.39101	04 05 56.67	+21 29 32.5	14.9	N	G39
C/2017 O1	2017 09 17.39249	04 05 56.81	+21 29 36.7	14.9	N	G39
C/2017 O1	2017 09 17.39475	04 05 56.95	+21 29 45.0	14.8	N	G39
C/2017 O1	2017 09 17.39738	04 05 57.22	+21 29 52.8	14.8	N	G39
C/2017 O1	2017 09 17.39961	04 05 57.38	+21 30 00.0	14.9	N	G39
C/2017 O1	2017 09 17.40209	04 05 57.58	+21 30 07.9	14.9	N	G39
C/2017 O1	2017 09 17.40432	04 05 57.76	+21 30 15.0	14.9	N	G39
C/2017 O1	2017 09 18.38679	04 07 21.66	+22 23 30.4	15.1	N	G39
C/2017 O1	2017 09 18.39159	04 07 22.02	+22 23 45.3	14.9	N	G39
C/2017 O1	2017 09 18.39381	04 07 22.25	+22 23 52.7	15.0	N	G39
C/2017 O1	2017 09 18.39630	04 07 22.40	+22 24 01.1	14.9	N	G39
C/2017 O1	2017 09 18.39852	04 07 22.61	+22 24 07.7	14.9	N	G39
C/2017 O1	2017 09 18.64203	04 07 43.95	+22 37 17.4			D81
C/2017 O1	2017 09 18.64279	04 07 43.88	+22 37 20.0			D81
C/2017 O1	2017 09 18.64355	04 07 43.94	+22 37 23.2			D81
C/2017 O1	2017 09 18.64432	04 07 44.17	+22 37 27.2	9.6	T	D81
C/2017 O1	2017 09 19.01043	04 08 15.05	+22 57 32.7	14.3	N	I81
C/2017 O1	2017 09 19.01895	04 08 15.76	+22 58 00.6	14.3	N	I81
C/2017 O1	2017 09 19.02605	04 08 16.33	+22 58 23.3	14.4	N	I81
C/2017 O1	2017 09 19.10800	04 08 23.01	+23 02 59.5	15.0	N	L04
C/2017 O1	2017 09 19.11084	04 08 23.24	+23 03 08.8	15.0	N	L04
C/2017 O1	2017 09 19.11367	04 08 23.45	+23 03 18.6	14.8	N	L04
C/2017 O1	2017 09 19.11709	04 08 23.78	+23 03 29.7	15.0	N	L04
C/2017 O1	2017 09 19.12049	04 08 24.03	+23 03 40.9	15.0	N	L04
C/2017 O1	2017 09 19.12503	04 08 24.41	+23 03 56.2	15.0	N	L04
C/2017 O1	2017 09 19.12845	04 08 24.69	+23 04 07.2	15.0	N	L04
C/2017 O1	2017 09 19.20242	04 08 31.49	+23 08 13.1	14.0	N	KW33
C/2017 O1	2017 09 19.22024	04 08 32.98	+23 09 12.9	13.7	N	KW33
C/2017 O1	2017 09 19.38612	04 08 46.50	+23 18 37.5	15.0	N	G39
C/2017 O1	2017 09 19.38760	04 08 46.56	+23 18 42.2	15.1	N	G39
C/2017 O1	2017 09 19.38986	04 08 46.91	+23 18 49.8	14.5	N	G39
C/2017 O1	2017 09 19.39241	04 08 47.02	+23 18 58.1	15.0	N	G39
C/2017 O1	2017 09 19.39465	04 08 47.14	+23 19 05.1	15.0	N	G39
C/2017 O1	2017 09 19.39712	04 08 47.39	+23 19 13.8	15.0	N	G39
C/2017 O1	2017 09 19.39934	04 08 47.49	+23 19 21.0	15.0	N	G39
C/2017 O1	2017 09 19.94882	04 09 34.74	+23 49 51.8	14.9	N	C77
C/2017 O1	2017 09 19.95166	04 09 34.84	+23 50 02.9	14.9	N	C77
C/2017 O1	2017 09 19.95730	04 09 35.38	+23 50 20.7	14.9	N	C77
C/2017 O1	2017 09 19.95811	04 09 35.29	+23 50 21.9	14.9	N	I81
C/2017 O1	2017 09 19.96649	04 09 36.01	+23 50 49.8	14.2	N	I81
C/2017 O1	2017 09 19.97643	04 09 36.88	+23 51 24.1	14.9	N	I81
C/2017 O1	2017 09 20.18098	04 09 53.99	+24 03 01.3	14.7	N	9 G40
C/2017 O1	2017 09 20.18541	04 09 54.29	+24 03 16.7	14.6	N	9 G40
C/2017 O1	2017 09 20.18888	04 09 54.59	+24 03 28.1	14.6	N	9 G40
C/2017 O1	2017 09 20.19581	04 09 55.16	+24 03 52.2	14.6	N	9 G40
C/2017 O1	2017 09 20.38554	04 10 10.92	+24 14 43.5	15.0	N	G39
C/2017 O1	2017 09 20.38628	04 10 10.96	+24 14 46.3	15.0	N	G39
C/2017 O1	2017 09 20.38703	04 10 11.06	+24 14 48.6	15.1	N	G39
C/2017 O1	2017 09 20.38779	04 10 10.98	+24 14 50.6	14.9	N	G39
C/2017 O1	2017 09 20.38927	04 10 11.33	+24 14 56.0	16.1	N	G39
C/2017 O1	2017 09 20.39035	04 10 11.29	+24 14 59.7	15.0	N	G39
C/2017 O1	2017 09 20.39109	04 10 11.36	+24 15 02.4	15.0	N	G39
C/2017 O1	2017 09 20.39183	04 10 11.44	+24 15 04.6	14.9	N	G39
C/2017 O1	2017 09 20.39257	04 10 11.47	+24 15 07.3	15.0	N	G39
C/2017 O1	2017 09 20.39331	04 10 11.55	+24 15 10.0	15.0	N	G39
C/2017 O1	2017 09 20.39405	04 10 11.58	+24 15 12.8	14.9	N	G39
C/2017 O1	2017 09 20.39506	04 10 11.66	+24 15 15.9	14.9	N	G39
C/2017 O1	2017 09 20.39580	04 10 11.76	+24 15 18.4	15.0	N	G39
C/2017 O1	2017 09 20.39654	04 10 11.79	+24 15 20.8	15.0	N	G39
C/2017 O1	2017 09 20.39728	04 10 11.86	+24 15 23.3	15.0	N	G39
C/2017 O1	2017 09 20.39802	04 10 11.93	+24 15 25.7	15.0	N	G39
C/2017 O1	2017 09 20.39876	04 10 11.98	+24 15 28.6	15.0	N	G39
C/2017 O1	2017 09 20.59206	04 10 28.94	+24 26 14.4			D81
C/2017 O1	2017 09 20.59282	04 10 29.03	+24 26 17.3			D81
C/2017 O1	2017 09 20.59359	04 10 29.06	+24 26 19.7			D81
C/2017 O1	2017 09 20.59435	04 10 29.16	+24 26 22.0	10.7	T	D81
C/2017 O1	2017 09 21.05018	04 11 07.27	+24 52 22.5	15.6	N	K97
C/2017 O1	2017 09 21.06024	04 11 08.08	+24 52 57.2	15.6	N	K97
C/2017 O1	2017 09 21.07032	04 11 08.91	+24 53 31.8	15.5	N	K97
C/2017 O1	2017 09 21.28676	04 11 27.16	+25 05 59.0	13.7	N	KW33
C/2017 O1	2017 09 21.31195	04 11 29.16	+25 07 25.2	13.8	N	KW33
C/2017 O1	2017 09 21.33272	04 11 31.02	+25 08 38.0	15.5	N	K 850
C/2017 O1	2017 09 21.33714	04 11 31.18	+25 08 53.3	13.7	N	KW33
C/2017 O1	2017 09 21.33743	04 11 31.27	+25 08 54.1	15.7	N	K 850
C/2017 O1	2017 09 21.38473	04 11 34.92	+25 11 47.3	15.1	N	G39
C/2017 O1	2017 09 21.38547	04 11 34.98	+25 11 49.5	15.1	N	G39
C/2017 O1	2017 09 21.38622	04 11 35.00	+25 11 52.3	15.0	N	G39
C/2017 O1	2017 09 21.38951	04 11 35.23	+25 12 03.4	14.8	N	G39
C/2017 O1	2017 09 21.39025	04 11 35.34	+25 12 06.5	14.8	N	G39
C/2017 O1	2017 09 21.39100	04 11 35.38	+25 12 08.6	14.7	N	G39
C/2017 O1	2017 09 21.39175	04 11 35.45	+25 12 11.4	14.7	N	G39
C/2017 O1	2017 09 21.39249	04 11 35.50	+25 12 13.3	14.7	N	G39
C/2017 O1	2017 09 21.39323	04 11 35.49	+25 12 16.4	14.7	N	G39
C/2017 O1	2017 09 21.39421	04 11 35.62	+25 12 20.2	14.7	N	G39
C/2017 O1	2017 09 21.39495	04 11 35.70	+25 12 22.5	14.7	N	G39
C/2017 O1	2017 09 21.39569	04 11 35.72	+25 12 25.3	14.6	N	G39
C/2017 O1	2017 09 21.39645	04 11 35.80	+25 12 27.5	14.7	N	G39
C/2017 O1	2017 09 21.39719	04 11 35.86	+25 12 30.3	14.7	N	G39
C/2017 O1	2017 09 21.39793	04 11 35.93	+25 12 32.5	14.7	N	G39
C/2017 O1	2017 09 21.41613	04 11 37.53	+25 13 27.4	15.6	N	850
C/2017 O1	2017 09 21.42175	04 11 38.06	+25 13 46.3	15.6	N	850
C/2017 O1	2017 09 21.43862	04 11 39.35	+25 14 43.9	15.7	N	850
C/2017 O1	2017 09 22.05712	04 12 31.50	+25 50 29.4	14.8	N	I81
C/2017 O1	2017 09 22.06138	04 12 31.86	+25 50 43.9	14.8	N	I81
C/2017 O1	2017 09 22.06280	04 12 32.00	+25 50 49.8	14.8	N	I81
C/2017 O1	2017 09 22.08393	04 12 33.71	+25 52 05.0	14.9	N	C23
C/2017 O1	2017 09 22.09066	04 12 34.24	+25 52 28.4	14.5	N	C23
C/2017 O1	2017 09 22.09815	04 12 34.86	+25 52 54.7	14.5	N	C23
C/2017 O1	2017 09 22.16241	04 12 39.98	+25 56 41.7	15.2	N	K A77
C/2017 O1	2017 09 22.16882	04 12 40.50	+25 57 03.3	15.1	N	K A77
C/2017 O1	2017 09 22.17523	04 12 41.04	+25 57 25.8	15.0	N	K A77
C/2017 O1	2017 09 22.35270	04 12 55.94	+26 07 58.9	14.7	N	W96
C/2017 O1	2017 09 22.35970	04 12 56.52	+26 08 23.5	12.2	T	W96

C/2017 O1	2017 09 22.36636	04 12 57.02	+26 08 47.2	14.7	N	W96
C/2017 O1	2017 09 22.38407	04 12 58.43	+26 09 49.4	14.8	N	G39
C/2017 O1	2017 09 22.38481	04 12 58.47	+26 09 52.2	14.7	N	G39
C/2017 O1	2017 09 22.38556	04 12 58.54	+26 09 54.6	14.8	N	G39
C/2017 O1	2017 09 22.38887	04 12 58.78	+26 10 05.6	14.7	N	G39
C/2017 O1	2017 09 22.38961	04 12 58.86	+26 10 08.4	14.7	N	G39
C/2017 O1	2017 09 22.39035	04 12 58.88	+26 10 11.1	14.8	N	G39
C/2017 O1	2017 09 22.39109	04 12 59.00	+26 10 13.4	14.8	N	G39
C/2017 O1	2017 09 22.39183	04 12 59.02	+26 10 16.5	14.8	N	G39
C/2017 O1	2017 09 22.39204	04 12 59.34	+26 10 07.7	15.4	N	K 850
C/2017 O1	2017 09 22.39257	04 12 59.09	+26 10 19.4	14.8	N	G39
C/2017 O1	2017 09 22.39355	04 12 59.17	+26 10 22.3	14.8	N	G39
C/2017 O1	2017 09 22.39431	04 12 59.18	+26 10 24.1	14.9	N	G39
C/2017 O1	2017 09 22.39505	04 12 59.28	+26 10 27.8	14.7	N	G39
C/2017 O1	2017 09 22.39579	04 12 59.28	+26 10 31.3	14.9	N	G39
C/2017 O1	2017 09 22.39653	04 12 59.38	+26 10 32.9	14.8	N	G39
C/2017 O1	2017 09 22.39727	04 12 59.50	+26 10 35.3	14.7	N	G39
C/2017 O1	2017 09 22.44286	04 13 03.35	+26 13 07.0	15.2	N	K H47
C/2017 O1	2017 09 22.44429	04 13 03.45	+26 13 11.2	15.3	N	K 850
C/2017 O1	2017 09 22.44584	04 13 03.58	+26 13 17.1	15.3	N	K H47
C/2017 O1	2017 09 22.45190	04 13 04.08	+26 13 38.2	15.3	N	K H47
C/2017 O1	2017 09 22.91926	04 13 43.61	+26 41 01.5	14.6	N	B96
C/2017 O1	2017 09 22.92089	04 13 43.71	+26 41 08.1	14.6	N	B96
C/2017 O1	2017 09 22.92252	04 13 43.85	+26 41 13.6	14.6	N	B96
C/2017 O1	2017 09 22.92416	04 13 44.02	+26 41 19.8	14.6	N	B96
C/2017 O1	2017 09 22.92579	04 13 44.13	+26 41 25.3	14.7	N	B96
C/2017 O1	2017 09 22.92743	04 13 44.27	+26 41 31.9	14.7	N	B96
C/2017 O1	2017 09 22.92916	04 13 44.40	+26 41 37.1	14.6	N	B96
C/2017 O1	2017 09 22.93080	04 13 44.53	+26 41 43.2	14.7	N	B96
C/2017 O1	2017 09 22.93243	04 13 44.68	+26 41 49.4	14.5	N	B96
C/2017 O1	2017 09 22.93406	04 13 44.81	+26 41 54.7	14.6	N	B96
C/2017 O1	2017 09 22.93569	04 13 44.94	+26 42 01.0	14.6	N	B96
C/2017 O1	2017 09 22.93734	04 13 45.08	+26 42 06.7	14.7	N	B96
C/2017 O1	2017 09 22.95197	04 13 46.30	+26 42 59.2	16.5	N	C47
C/2017 O1	2017 09 22.95455	04 13 46.50	+26 43 08.6	16.5	N	C47
C/2017 O1	2017 09 22.95750	04 13 46.71	+26 43 18.8	16.3	N	C47
C/2017 O1	2017 09 22.96378	04 13 47.23	+26 43 41.8	16.5	N	C47
C/2017 O1	2017 09 22.96710	04 13 47.50	+26 43 53.4	16.3	N	C47
C/2017 O1	2017 09 23.02375	04 13 52.16	+26 47 14.5	14.6	N	C10
C/2017 O1	2017 09 23.03775	04 13 53.29	+26 48 04.4	14.6	N	C10
C/2017 O1	2017 09 23.05012	04 13 54.28	+26 48 48.6	14.7	N	C10
C/2017 O1	2017 09 23.06454	04 13 55.44	+26 49 39.9	14.7	N	C10
C/2017 O1	2017 09 23.12697	04 14 00.57	+26 53 23.7	14.4	N	J01
C/2017 O1	2017 09 23.13502	04 14 01.18	+26 53 51.8	14.4	N	J01
C/2017 O1	2017 09 23.13809	04 14 01.49	+26 54 05.2	13.7	N	2 G40
C/2017 O1	2017 09 23.14146	04 14 01.70	+26 54 15.1	14.4	N	J01
C/2017 O1	2017 09 23.16594	04 14 03.69	+26 55 44.6	13.7	N	2 G40
C/2017 O1	2017 09 23.17988	04 14 04.79	+26 56 33.9	13.7	N	2 G40
C/2017 O1	2017 09 23.19378	04 14 05.89	+26 57 23.9	13.7	N	2 G40
C/2017 O1	2017 09 23.38260	04 14 21.68	+27 08 35.2	15.5	N	850
C/2017 O1	2017 09 23.39913	04 14 22.88	+27 09 34.5	15.3	N	850
C/2017 O1	2017 09 23.41560	04 14 24.27	+27 10 33.2	15.5	N	850
C/2017 O1	2017 09 23.43215	04 14 25.61	+27 11 31.8	15.4	N	850
C/2017 O1	2017 09 23.57851	04 14 37.84	+27 20 18.1	14.6	T	T05
C/2017 O1	2017 09 23.58797	04 14 38.59	+27 20 51.9	14.5	T	T05
C/2017 O1	2017 09 23.59743	04 14 39.33	+27 21 25.8	14.6	T	T05
C/2017 O1	2017 09 24.01940	04 15 14.63	+27 46 35.5	15.1	N	B96
C/2017 O1	2017 09 24.02757	04 15 15.30	+27 47 04.9	15.0	N	B96
C/2017 O1	2017 09 24.03574	04 15 15.93	+27 47 35.2	15.0	N	B96
C/2017 O1	2017 09 24.04402	04 15 16.60	+27 48 04.6	15.0	N	B96
C/2017 O1	2017 09 24.05219	04 15 17.27	+27 48 33.8	15.0	N	B96
C/2017 O1	2017 09 24.06774	04 15 18.54	+27 49 30.9	15.3	N	K97
C/2017 O1	2017 09 24.07552	04 15 19.15	+27 49 58.8	15.1	N	K97
C/2017 O1	2017 09 24.08388	04 15 19.82	+27 50 29.2	15.4	N	K97
C/2017 O1	2017 09 24.09463	04 15 20.66	+27 51 07.9	15.3	N	K97
C/2017 O1	2017 09 24.10241	04 15 21.27	+27 51 35.8	15.2	N	K97
C/2017 O1	2017 09 24.31014	04 15 38.38	+28 04 18.8	14.8	N	W96
C/2017 O1	2017 09 24.34741	04 15 41.32	+28 06 33.7	14.8	N	W96
C/2017 O1	2017 09 24.43693	04 15 48.60	+28 11 49.6	15.0	N	H47
C/2017 O1	2017 09 24.44786	04 15 49.45	+28 12 28.8	14.8	N	H47
C/2017 O1	2017 09 24.45034	04 15 49.60	+28 12 37.5	14.8	N	H47
C/2017 O1	2017 09 24.45491	04 15 50.00	+28 12 54.5	14.6	N	H47
C/2017 O1	2017 09 24.45808	04 15 50.27	+28 13 06.0	14.7	N	H47
C/2017 O1	2017 09 24.69583	04 16 10.41	+28 27 29.8			372
C/2017 O1	2017 09 24.76146	04 16 15.56	+28 31 29.7	9.9	T	372
C/2017 O1	2017 09 24.79378	04 16 18.00	+28 33 26.6			Q11
C/2017 O1	2017 09 24.80163	04 16 18.61	+28 33 55.2			Q11
C/2017 O1	2017 09 24.80735	04 16 19.06	+28 34 16.1	10.0	T	Q11
C/2017 O1	2017 09 24.93725	04 16 30.31	+28 42 04.9	14.4	N	C23
C/2017 O1	2017 09 24.93950	04 16 30.50	+28 42 13.0	14.3	N	C23
C/2017 O1	2017 09 25.01406	04 16 36.51	+28 46 46.4	14.9	N	B96
C/2017 O1	2017 09 25.01896	04 16 36.87	+28 47 04.1	14.7	N	B96
C/2017 O1	2017 09 25.02387	04 16 37.23	+28 47 22.8	14.7	N	B96
C/2017 O1	2017 09 25.02877	04 16 37.75	+28 47 42.2	14.7	N	B96
C/2017 O1	2017 09 25.03367	04 16 38.09	+28 47 59.1	14.7	N	B96
C/2017 O1	2017 09 25.04030	04 16 38.59	+28 48 23.1	14.7	N	B96
C/2017 O1	2017 09 25.04684	04 16 39.15	+28 48 48.0	14.7	N	B96
C/2017 O1	2017 09 25.11623	04 16 44.61	+28 53 03.1	14.3	N	A77
C/2017 O1	2017 09 25.12557	04 16 45.36	+28 53 37.5	14.3	N	A77
C/2017 O1	2017 09 25.13539	04 16 46.13	+28 54 13.2	14.3	N	A77
C/2017 O1	2017 09 25.14523	04 16 46.90	+28 54 49.2	14.3	N	A77
C/2017 O1	2017 09 25.36248	04 17 04.96	+29 08 08.8	15.5	N	850
C/2017 O1	2017 09 25.37927	04 17 06.14	+29 09 11.2	15.3	N	850
C/2017 O1	2017 09 25.40980	04 17 08.64	+29 11 03.3	15.2	N	H47
C/2017 O1	2017 09 25.41044	04 17 08.67	+29 11 05.5	14.8	N	H47
C/2017 O1	2017 09 25.41231	04 17 08.84	+29 11 12.2	15.5	N	850
C/2017 O1	2017 09 25.41299	04 17 08.90	+29 11 15.4	15.2	N	H47
C/2017 O1	2017 09 25.41362	04 17 08.95	+29 11 17.6	15.1	N	H47
C/2017 O1	2017 09 25.42866	04 17 10.04	+29 12 12.9	15.7	N	850
C/2017 O1	2017 09 25.56620	04 17 21.54	+29 20 41.8	15.0	T	T08
C/2017 O1	2017 09 25.57401	04 17 22.09	+29 21 10.5	14.3	T	T08
C/2017 O1	2017 09 25.58193	04 17 22.70	+29 21 39.8	14.3	T	T08
C/2017 O1	2017 09 25.58995	04 17 23.37	+29 22 09.6	15.0	T	T08
C/2017 O1	2017 09 25.61438	04 17 25.94	+29 23 34.5			900
C/2017 O1	2017 09 25.62174	04 17 26.53	+29 24 01.8	10.5	T	900
C/2017 O1	2017 09 25.99969	04 17 57.19	+29 47 16.8	13.8	N	I81

C/2017 O1	2017 09 26.00041	04 17 57.24	+29 47 19.3	13.8	N		I81
C/2017 O1	2017 09 26.00113	04 17 57.31	+29 47 22.1	13.8	N		I81
C/2017 O1	2017 09 26.00185	04 17 57.36	+29 47 24.7	13.8	N		I81
C/2017 O1	2017 09 26.00257	04 17 57.43	+29 47 27.5	13.8	N		I81
C/2017 O1	2017 09 26.00329	04 17 57.48	+29 47 30.2	13.7	N		I81
C/2017 O1	2017 09 26.00401	04 17 57.54	+29 47 32.9	13.8	N		I81
C/2017 O1	2017 09 26.00473	04 17 57.60	+29 47 35.7	13.8	N		I81
C/2017 O1	2017 09 26.00545	04 17 57.65	+29 47 38.3	13.7	N		I81
C/2017 O1	2017 09 26.00617	04 17 57.74	+29 47 41.1	13.9	N		I81
C/2017 O1	2017 09 26.01608	04 17 58.65	+29 48 22.9	14.4	N		J38
C/2017 O1	2017 09 26.01746	04 17 58.98	+29 48 29.0	14.4	N		J38
C/2017 O1	2017 09 26.01805	04 17 59.05	+29 48 34.1	14.4	N		J38
C/2017 O1	2017 09 26.06067	04 18 02.14	+29 51 05.9	15.5	N		K97
C/2017 O1	2017 09 26.07527	04 18 03.27	+29 52 00.3	15.5	N		K97
C/2017 O1	2017 09 26.08318	04 18 03.89	+29 52 29.9	15.3	N		K97
C/2017 O1	2017 09 26.09474	04 18 04.80	+29 53 12.8	15.5	N		K97
C/2017 O1	2017 09 26.13574	04 18 08.62	+29 55 42.5				I17
C/2017 O1	2017 09 26.13883	04 18 08.85	+29 55 54.4				I17
C/2017 O1	2017 09 26.14270	04 18 09.12	+29 56 08.7				I17
C/2017 O1	2017 09 26.14656	04 18 09.48	+29 56 23.3				I17
C/2017 O1	2017 09 26.15043	04 18 09.73	+29 56 37.5				I17
C/2017 O1	2017 09 26.97446	04 19 16.74	+30 47 59.6	14.4	N		J01
C/2017 O1	2017 09 26.97747	04 19 16.96	+30 48 10.9	14.4	N		J01
C/2017 O1	2017 09 26.98197	04 19 17.33	+30 48 27.7	14.4	N		J01
C/2017 O1	2017 09 27.06030	04 19 23.16	+30 53 24.7	13.2	N		C36
C/2017 O1	2017 09 27.06118	04 19 23.23	+30 53 28.1	13.2	N		C36
C/2017 O1	2017 09 27.06206	04 19 23.30	+30 53 31.3	13.2	N		C36
C/2017 O1	2017 09 27.06293	04 19 23.37	+30 53 34.6	13.2	N		C36
C/2017 O1	2017 09 27.06469	04 19 23.52	+30 53 41.2	13.2	N		C36
C/2017 O1	2017 09 27.06868	04 19 23.82	+30 53 56.2	13.2	N		C36
C/2017 O1	2017 09 27.06956	04 19 23.87	+30 53 59.5	13.2	N		C36
C/2017 O1	2017 09 27.07044	04 19 23.96	+30 54 02.7	13.2	N		C36
C/2017 O1	2017 09 27.07131	04 19 24.02	+30 54 06.1	13.2	N		C36
C/2017 O1	2017 09 27.07219	04 19 24.10	+30 54 09.7	13.2	N		C36
C/2017 O1	2017 09 27.07307	04 19 24.17	+30 54 12.8	13.2	N		C36
C/2017 O1	2017 09 27.07395	04 19 24.23	+30 54 16.3	13.2	N		C36
C/2017 O1	2017 09 27.14421	04 19 29.90	+30 58 41.4	15.0	N	K	A77
C/2017 O1	2017 09 27.14800	04 19 30.23	+30 58 55.8	15.0	N	K	A77
C/2017 O1	2017 09 27.15383	04 19 30.65	+30 59 17.9	11.9	T	K	A77
C/2017 O1	2017 09 27.58708	04 20 05.73	+31 26 39.6	14.2	T		T05
C/2017 O1	2017 09 27.59049	04 20 05.99	+31 26 52.4	14.2	T		T05
C/2017 O1	2017 09 27.60391	04 20 07.00	+31 27 43.4	14.2	T		T05
C/2017 O1	2017 09 27.61707	04 20 07.99	+31 28 33.2	14.2	T		T05
C/2017 O1	2017 09 28.06044	04 20 44.18	+31 56 34.3	14.9	N		A77
C/2017 O1	2017 09 28.06310	04 20 44.41	+31 56 44.8	14.9	N		A77
C/2017 O1	2017 09 28.06630	04 20 44.64	+31 56 56.9	15.0	N		A77
C/2017 O1	2017 09 28.70737	04 21 36.18	+32 37 53.9	9.9	T		Q11
C/2017 O1	2017 09 28.71380	04 21 36.67	+32 38 18.6				Q11
C/2017 O1	2017 09 28.72022	04 21 37.15	+32 38 43.5				Q11
C/2017 O1	2017 09 29.12127	04 22 09.01	+33 04 27.8	14.5	T		C95
C/2017 O1	2017 09 29.13563	04 22 10.21	+33 05 23.6	15.0	T		C95
C/2017 O1	2017 09 29.15359	04 22 11.50	+33 06 32.8	15.1	T		C95
C/2017 O1	2017 09 29.17154	04 22 12.67	+33 07 42.0	13.6	T		C95
C/2017 O1	2017 09 29.33808	04 22 26.35	+33 18 38.1	14.6	N		W96
C/2017 O1	2017 09 29.35297	04 22 27.45	+33 19 35.7	14.6	N		W96
C/2017 O1	2017 09 29.36507	04 22 28.34	+33 20 22.7	14.6	N		W96
C/2017 O1	2017 09 29.55157	04 22 43.40	+33 32 19.0	14.3	T		T08
C/2017 O1	2017 09 29.57068	04 22 44.89	+33 33 33.6	14.5	T		T08
C/2017 O1	2017 09 29.57679	04 22 45.35	+33 33 57.4	14.6	T		T08
C/2017 O1	2017 09 29.58706	04 22 46.08	+33 34 37.3	14.2	T		T08
C/2017 O1	2017 09 29.62670	04 22 50.08	+33 37 04.8	13.8	N		G26
C/2017 O1	2017 09 29.65252	04 22 52.04	+33 38 45.0	13.6	N		G26
C/2017 O1	2017 09 29.99642	04 23 19.16	+34 01 03.1	14.9	N		Z80
C/2017 O1	2017 09 29.99656	04 23 19.12	+34 01 04.7	16.2	N		C47
C/2017 O1	2017 09 29.99667	04 23 19.19	+34 01 04.3	14.9	N		Z80
C/2017 O1	2017 09 29.99691	04 23 19.13	+34 01 05.2	14.9	N		Z80
C/2017 O1	2017 09 29.99715	04 23 19.24	+34 01 05.6	14.8	N		Z80
C/2017 O1	2017 09 29.99740	04 23 19.27	+34 01 06.6	14.7	N		Z80
C/2017 O1	2017 09 29.99764	04 23 19.27	+34 01 07.8	14.7	N		Z80
C/2017 O1	2017 09 29.99788	04 23 19.26	+34 01 08.8	14.9	N		Z80
C/2017 O1	2017 09 29.99813	04 23 19.33	+34 01 10.6	14.8	N		Z80
C/2017 O1	2017 09 29.99837	04 23 19.36	+34 01 10.6	14.8	N		Z80
C/2017 O1	2017 09 29.99861	04 23 19.34	+34 01 11.7	14.9	N		Z80
C/2017 O1	2017 09 29.99885	04 23 19.35	+34 01 12.5	14.7	N		Z80
C/2017 O1	2017 09 29.99910	04 23 19.38	+34 01 13.1	14.7	N		Z80
C/2017 O1	2017 09 29.99934	04 23 19.35	+34 01 14.2	14.6	N		Z80
C/2017 O1	2017 09 30.00357	04 23 19.64	+34 01 32.6	14.8	N		C47
C/2017 O1	2017 09 30.00726	04 23 19.95	+34 01 47.2	14.9	N		C47
C/2017 O1	2017 09 30.01095	04 23 20.21	+34 02 01.4	14.8	N		C47
C/2017 O1	2017 09 30.01464	04 23 20.50	+34 02 16.0	14.8	N		C47
C/2017 O1	2017 09 30.06395	04 23 24.34	+34 05 29.8	14.3	N		A77
C/2017 O1	2017 09 30.08228	04 23 25.70	+34 06 41.7	14.4	N		A77
C/2017 O1	2017 09 30.10100	04 23 27.12	+34 07 54.8	14.3	N		A77
C/2017 O1	2017 09 30.13010	04 23 29.47	+34 09 49.8	15.2	N	2	I89
C/2017 O1	2017 09 30.13493	04 23 29.81	+34 10 08.7	15.1	N	2	I89
C/2017 O1	2017 09 30.13949	04 23 30.15	+34 10 26.4	15.7	N	2	I89
C/2017 O1	2017 09 30.14384	04 23 30.49	+34 10 43.4	15.7	N	2	I89
C/2017 O1	2017 09 30.15120	04 23 31.06	+34 11 11.7	15.7	N	2	I89
C/2017 O1	2017 09 30.15556	04 23 31.36	+34 11 29.5	15.6	N	2	I89
C/2017 O1	2017 09 30.15981	04 23 31.69	+34 11 46.0	15.8	N	2	I89

P/2017 P1 (PANSTARRS)

P/2017 P1	2017 06 25.53747	21 18 54.924	−06 19 52.36	20.9	T	F51
P/2017 P1	2017 06 25.54948	21 18 54.803	−06 19 51.96	21.1	T	F51
P/2017 P1	2017 06 25.56151	21 18 54.659	−06 19 51.71	21.2	T	F51
P/2017 P1	2017 06 25.57355	21 18 54.528	−06 19 51.18	21.2	T	F51
P/2017 P1	2017 07 27.47518	21 09 02.959	−06 37 57.72	20.8	T	F51
P/2017 P1	2017 07 27.48754	21 09 02.652	−06 37 58.98	20.7	T	F51
P/2017 P1	2017 08 12.35958	21 02 26.301	−07 06 27.00	20.6	T	F51
P/2017 P1	2017 08 12.37194	21 02 25.998	−07 06 28.80	20.6	T	F51
P/2017 P1	2017 08 12.38433	21 02 25.650	−07 06 30.43	20.4	T	F51
P/2017 P1	2017 08 12.39675	21 02 25.354	−07 06 31.56	21.1	T	F51
P/2017 P1	2017 08 15.40819	21 01 10.481	−07 12 53.52	20.8	T	F51
P/2017 P1	2017 08 15.41991	21 01 10.185	−07 12 54.94	20.8	T	F51
P/2017 P1	2017 08 15.43164	21 01 09.886	−07 12 56.46	20.8	T	F51
P/2017 P1	2017 08 15.44336	21 01 09.596	−07 12 57.62	20.9	T	F51

P/2017 P1	2017 08 16.276007	21 00 49.07	−07 14 44.4	20.8	T		W85
P/2017 P1	2017 08 16.279987	21 00 48.98	−07 14 45.0	20.5	T		W85
P/2017 P1	2017 08 16.283955	21 00 48.88	−07 14 45.5	21.0	T		W85
P/2017 P1	2017 08 16.287928	21 00 48.78	−07 14 46.1	20.6	T		W85
P/2017 P1	2017 08 16.291896	21 00 48.68	−07 14 46.1	20.9	T		W85
P/2017 P1	2017 08 16.32415	21 00 48.013	−07 14 52.19	21.3	T		F51
P/2017 P1	2017 08 16.33630	21 00 47.703	−07 14 53.55	21.3	T		F51
P/2017 P1	2017 08 16.34838	21 00 47.401	−07 14 55.12	21.3	T		F51
P/2017 P1	2017 08 16.36043	21 00 47.094	−07 14 56.77	21.2	T		F51
P/2017 P1	2017 08 16.364837	21 00 46.987	−07 14 57.54	20.6	T	29	568
P/2017 P1	2017 08 16.366022	21 00 46.960	−07 14 57.59	20.6	T	29	568
P/2017 P1	2017 08 16.367206	21 00 46.928	−07 14 57.84	20.5	T	29	568
P/2017 P1	2017 08 16.46421	21 00 44.52	−07 15 08.9			1	Q62
P/2017 P1	2017 08 16.46696	21 00 44.48	−07 15 09.2			1	Q62
P/2017 P1	2017 08 16.46971	21 00 44.41	−07 15 09.7	19.6	T	1	Q62
P/2017 P1	2017 08 16.58082	21 00 41.61	−07 15 23.7			1	Q62
P/2017 P1	2017 08 16.58357	21 00 41.54	−07 15 24.2			1	Q62
P/2017 P1	2017 08 16.58633	21 00 41.48	−07 15 24.6	19.4	T	1	Q62
P/2017 P1	2017 08 16.85392	21 00 34.97	−07 16 03.0	20.3	N	K	A71
P/2017 P1	2017 08 16.87016	21 00 34.60	−07 16 04.6	20.4	N	K	A71
P/2017 P1	2017 08 16.88478	21 00 34.16	−07 16 06.5	19.9	N	K	A71
P/2017 P1	2017 08 24.41228	20 57 36.440	−07 33 01.16	21.2	T		F51
P/2017 P1	2017 08 24.42431	20 57 36.167	−07 33 02.98	21.4	T		F51
P/2017 P1	2017 08 24.43632	20 57 35.893	−07 33 04.58	21.3	T		F51
P/2017 P1	2017 08 24.44833	20 57 35.608	−07 33 06.25	21.7	T		F51
P/2017 P1	2017 08 24.47796	20 57 34.91	−07 33 12.2				372
P/2017 P1	2017 08 24.48763	20 57 34.78	−07 33 13.0				372
P/2017 P1	2017 08 24.50163	20 57 34.39	−07 33 15.1	19.6	N		372

C/2017 P2 (PANSTARRS)

C/2017 P2	2017 08 14.25763	16 03 27.317	+34 46 00.68	21.9	T		F51
C/2017 P2	2017 08 14.26952	16 03 27.909	+34 45 49.53	22.2	T		F51
C/2017 P2	2017 08 14.28141	16 03 28.486	+34 45 38.63	22.1	T		F51
C/2017 P2	2017 08 14.29330	16 03 29.086	+34 45 27.39	22.1	T		F51
C/2017 P2	2017 08 15.17313	16 04 15.41	+34 31 43.1	21.4	T	K	291
C/2017 P2	2017 08 15.17890	16 04 15.72	+34 31 37.7	21.4	T	K	291
C/2017 P2	2017 08 15.18468	16 04 16.09	+34 31 31.8	21.3	T	K	291
C/2017 P2	2017 08 16.095823	16 05 05.03	+34 17 13.0	22.1	T	K	H21
C/2017 P2	2017 08 16.114110	16 05 06.00	+34 16 55.6	21.9	T	K	H21
C/2017 P2	2017 08 16.132804	16 05 06.95	+34 16 37.4	22.2	T	K	H21
C/2017 P2	2017 08 17.20131	16 06 05.95	+33 59 43.6			1	658
C/2017 P2	2017 08 17.20674	16 06 06.25	+33 59 38.5			1	658
C/2017 P2	2017 08 17.20890	16 06 06.35	+33 59 36.4			1	658
C/2017 P2	2017 08 17.337028	16 06 13.389	+33 57 35.56	21.0	T	29	568
C/2017 P2	2017 08 17.338211	16 06 13.462	+33 57 34.44	21.8	T	29	568
C/2017 P2	2017 08 17.339418	16 06 13.539	+33 57 33.20	22.0	T	29	568
C/2017 P2	2017 08 18.095890	16 06 56.37	+33 45 29.3	21.8	T	K	H21
C/2017 P2	2017 08 18.111125	16 06 57.23	+33 45 14.7	21.8	T	K	H21
C/2017 P2	2017 08 18.131034	16 06 58.36	+33 44 55.5	22.2	T	K	H21
C/2017 P2	2017 08 18.15391	16 06 59.71	+33 44 34.5			K	291
C/2017 P2	2017 08 18.16257	16 07 00.18	+33 44 26.1	21.2	T	K	291
C/2017 P2	2017 08 18.17122	16 07 00.66	+33 44 17.6	21.6	T	K	291
C/2017 P2	2017 08 19.279066	16 08 04.669	+33 26 33.13				29 568
C/2017 P2	2017 08 19.281446	16 08 04.831	+33 26 30.87				29 568
C/2017 P2	2017 08 20.284794	16 09 04.197	+33 10 19.57	21.9	T		29 568
C/2017 P2	2017 08 20.285981	16 09 04.268	+33 10 18.40	21.8	T		29 568
C/2017 P2	2017 08 20.287179	16 09 04.337	+33 10 17.27	21.8	T		29 568
C/2017 P2	2017 08 22.19522	16 11 00.90	+32 39 13.2			1	658
C/2017 P2	2017 08 22.19740	16 11 01.03	+32 39 11.0			1	658
C/2017 P2	2017 08 22.19957	16 11 01.16	+32 39 08.9			1	658
C/2017 P2	2017 08 24.26255	16 13 12.262	+32 05 15.71	22.1	T		F51
C/2017 P2	2017 08 24.27463	16 13 13.048	+32 05 03.28	22.0	T		F51
C/2017 P2	2017 08 24.28671	16 13 13.795	+32 04 51.45	21.9	T		F51
C/2017 P2	2017 08 27.13556	16 16 23.47	+31 17 26.2			32	H06
C/2017 P2	2017 08 27.13708	16 16 23.62	+31 17 25.2	21.7	T	32	H06
C/2017 P2	2017 09 13.228936	16 38 36.411	+26 23 25.98	21.7	T	29	568
C/2017 P2	2017 09 13.230806	16 38 36.566	+26 23 23.93	21.4	T	29	568
C/2017 P2	2017 09 13.232685	16 38 36.731	+26 23 21.94	21.5	T	29	568
C/2017 P2	2017 09 13.234553	16 38 36.888	+26 23 19.97	21.5	T	29	568
C/2017 P2	2017 09 13.236422	16 38 37.046	+26 23 18.01	21.5	T	29	568

P/2017 R1 (PANSTARRS)

P/2017 R1	2017 07 30.49462	23 42 52.697	−02 59 55.99	21.5	T		F51
P/2017 R1	2017 07 30.50666	23 42 52.602	−02 59 57.15	21.2	T		F51
P/2017 R1	2017 07 30.51860	23 42 52.492	−02 59 58.36	21.4	T		F51
P/2017 R1	2017 07 30.53051	23 42 52.407	−02 59 59.52	21.9	T		F51
P/2017 R1	2017 08 01.53132	23 42 36.246	−03 03 32.07	22.3	T		F51
P/2017 R1	2017 08 01.54321	23 42 36.118	−03 03 33.09	22.5	T		F51
P/2017 R1	2017 08 01.55510	23 42 35.974	−03 03 34.51	22.0	T		F51
P/2017 R1	2017 08 01.56701	23 42 35.869	−03 03 35.97	22.3	T		F51
P/2017 R1	2017 08 03.52513	23 42 15.909	−03 07 30.71	21.2	T		F51
P/2017 R1	2017 08 03.53589	23 42 15.769	−03 07 32.21	21.4	T		F51
P/2017 R1	2017 08 03.54668	23 42 15.644	−03 07 33.45	21.1	T		F51
P/2017 R1	2017 08 03.55743	23 42 15.501	−03 07 34.61	21.3	T		F51
P/2017 R1	2017 08 17.47615	23 38 03.574	−03 47 07.78	21.6	T		F51
P/2017 R1	2017 08 17.48721	23 38 03.279	−03 47 09.89	21.9	T		F51
P/2017 R1	2017 08 17.49826	23 38 02.992	−03 47 12.45	21.7	T		F51
P/2017 R1	2017 08 17.50933	23 38 02.703	−03 47 14.79	21.7	T		F51
P/2017 R1	2017 09 02.40902	23 30 03.20	−04 51 38.7	20.9	T		G96
P/2017 R1	2017 09 02.41466	23 30 02.98	−04 51 40.5	20.5	T		G96
P/2017 R1	2017 09 02.41966	23 30 02.80	−04 51 42.3	20.0	T		G96
P/2017 R1	2017 09 02.42386	23 30 02.64	−04 51 43.0	20.8	T		G96
P/2017 R1	2017 09 14.40860	23 22 54.116	−05 45 26.07	21.2	T		F51
P/2017 R1	2017 09 14.42057	23 22 53.652	−05 45 29.39	21.4	T		F51
P/2017 R1	2017 09 14.43251	23 22 53.220	−05 45 32.63	21.1	T		F51
P/2017 R1	2017 09 14.44444	23 22 52.773	−05 45 35.82	21.3	T		F51
P/2017 R1	2017 09 15.27618	23 22 22.69	−05 49 16.4	19.9	T		I52
P/2017 R1	2017 09 15.28137	23 22 22.54	−05 49 18.0	20.1	T		I52
P/2017 R1	2017 09 15.28767	23 22 22.24	−05 49 20.4	21.8	T		I52
P/2017 R1	2017 09 15.297169	23 22 21.80	−05 49 19.3	20.6	T		W85
P/2017 R1	2017 09 15.301137	23 22 21.65	−05 49 20.5	20.7	T		W85
P/2017 R1	2017 09 15.305107	23 22 21.51	−05 49 21.5	20.8	T		W85
P/2017 R1	2017 09 15.309076	23 22 21.35	−05 49 22.5	20.8	T		W85
P/2017 R1	2017 09 15.313087	23 22 21.23	−05 49 23.5	20.7	T		W85
P/2017 R1	2017 09 15.378211	23 22 19.077	−05 49 43.68	21.3	T	29	568
P/2017 R1	2017 09 15.379386	23 22 19.033	−05 49 43.92	21.0	T	29	568

P/2017 R1	2017 09 15.380561	23 22 18.988	−05 49 44.24	21.1	T	29	568
P/2017 R1	2017 09 15.54737	23 22 12.88	−05 50 25.2			1	Q62
P/2017 R1	2017 09 15.55129	23 22 12.75	−05 50 26.1			1	Q62
P/2017 R1	2017 09 15.55521	23 22 12.62	−05 50 27.0	19.9	T	1	Q62
P/2017 R1	2017 09 17.37894	23 21 07.014	−05 58 29.48	21.0	T		F51
P/2017 R1	2017 09 17.39065	23 21 06.589	−05 58 32.57	21.3	T		F51
P/2017 R1	2017 09 17.40238	23 21 06.142	−05 58 35.79	20.9	T		F51
P/2017 R1	2017 09 17.41408	23 21 05.702	−05 58 38.80	21.2	T		F51
P/2017 R1	2017 09 18.32717	23 20 32.95	−06 02 36.6	20.2	T	H	691
P/2017 R1	2017 09 18.33447	23 20 32.67	−06 02 38.1	20.3	T	H	691
P/2017 R1	2017 09 18.34177	23 20 32.40	−06 02 39.7	20.3	T	H	691
P/2017 R1	2017 09 18.35560	23 20 31.98	−06 02 43.3	21.0	T		I52
P/2017 R1	2017 09 18.36243	23 20 31.68	−06 02 45.0				I52
P/2017 R1	2017 09 18.36927	23 20 31.43	−06 02 47.5				I52
P/2017 R1	2017 09 18.37625	23 20 31.13	−06 02 48.4				I52
P/2017 R1	2017 09 19.17340	23 20 03.02	−06 06 14.3	20.3	T	H	691
P/2017 R1	2017 09 19.18457	23 20 02.72	−06 06 16.4	20.5	T	H	691
P/2017 R1	2017 09 19.19575	23 20 02.30	−06 06 20.0	20.7	T	H	691
P/2017 R1	2017 09 19.23115	23 20 01.03	−06 06 29.1	21.3	T		I52
P/2017 R1	2017 09 19.23617	23 20 00.84	−06 06 30.1	21.2	T		I52
P/2017 R1	2017 09 19.24123	23 20 00.63	−06 06 31.7				I52
P/2017 R1	2017 09 19.24896	23 20 00.34	−06 06 33.6				I52
P/2017 R1	2017 09 28.42314	23 14 51.532	−06 43 15.13	21.5	T		F51
P/2017 R1	2017 09 28.44666	23 14 50.749	−06 43 20.19	21.6	T		F51
P/2017 R1	2017 09 28.45842	23 14 50.362	−06 43 22.82	21.7	T		F51

P/2010 P4 = 2017 S1 (WISE)

P/2017 S1	2017 09 20.09698	01 24 16.78	+17 13 22.9	19.4	N	K	J04
P/2017 S1	2017 09 20.10452	01 24 16.27	+17 13 32.0	19.4	N	K	J04
P/2017 S1	2017 09 20.11206	01 24 15.75	+17 13 40.7	19.4	N	K	J04
P/2017 S1	2017 09 20.87979	01 23 25.78	+17 28 49.0	19.4	N	K	Z84
P/2017 S1	2017 09 20.88518	01 23 25.42	+17 28 55.5	19.5	N	K	Z84

C/2017 S2 (PANSTARRS)

C/2017 S2	2017 08 22.53736	01 35 20.635	−04 00 54.96	21.5	T		F51
C/2017 S2	2017 08 22.53813	01 35 20.647	−04 00 55.04	21.9	T		F51
C/2017 S2	2017 08 22.55134	01 35 20.699	−04 00 55.29	21.0	T		F51
C/2017 S2	2017 08 22.56532	01 35 20.755	−04 00 55.84	21.6	T		F51
C/2017 S2	2017 08 22.56607	01 35 20.767	−04 00 55.92	21.1	T		F51
C/2017 S2	2017 08 22.57932	01 35 20.831	−04 00 56.11	21.6	T		F51
C/2017 S2	2017 08 22.58006	01 35 20.828	−04 00 56.22	21.5	T		F51
C/2017 S2	2017 09 16.49961	01 32 39.254	−04 24 38.79	20.9	T		F51
C/2017 S2	2017 09 16.55924	01 32 38.121	−04 24 42.99	20.8	T		F51
C/2017 S2	2017 09 16.57379	01 32 37.853	−04 24 44.08	20.9	T		F51
C/2017 S2	2017 09 16.58835	01 32 37.576	−04 24 45.16	21.0	T		F51
C/2017 S2	2017 09 17.438814	01 32 22.401	−04 25 45.95	20.5	T	29	568
C/2017 S2	2017 09 17.439756	01 32 22.379	−04 25 45.99	20.7	T	29	568
C/2017 S2	2017 09 17.440700	01 32 22.366	−04 25 46.08	20.7	T	29	568
C/2017 S2	2017 09 17.61488	01 32 19.06	−04 25 56.9			1	Q62
C/2017 S2	2017 09 17.61733	01 32 19.00	−04 25 56.7			1	Q62
C/2017 S2	2017 09 17.61978	01 32 18.93	−04 25 56.9	19.7	T	1	Q62
C/2017 S2	2017 09 18.112913	01 32 09.65	−04 26 31.3	20.8	T		K93
C/2017 S2	2017 09 18.116879	01 32 09.56	−04 26 31.7	20.7	T		K93
C/2017 S2	2017 09 18.120852	01 32 09.49	−04 26 31.9	20.9	T		K93
C/2017 S2	2017 09 18.124819	01 32 09.40	−04 26 31.9	20.9	T		K93
C/2017 S2	2017 09 18.37631	01 32 04.72	−04 26 53.1	20.3	T	H	691
C/2017 S2	2017 09 18.38827	01 32 04.51	−04 26 54.1	20.7	T	H	691
C/2017 S2	2017 09 18.40018	01 32 04.23	−04 26 55.0	20.4	T	H	691
C/2017 S2	2017 09 20.27523	01 31 27.19	−04 29 06.8	20.9	T		I52
C/2017 S2	2017 09 20.29371	01 31 26.80	−04 29 07.8				I52
C/2017 S2	2017 09 20.30380	01 31 26.51	−04 29 08.0				I52
C/2017 S2	2017 09 25.48010	01 29 31.598	−04 34 50.29	20.9	T		F51
C/2017 S2	2017 09 25.49289	01 29 31.276	−04 34 51.10	20.9	T		F51
C/2017 S2	2017 09 25.50581	01 29 30.959	−04 34 51.85	20.8	T		F51
C/2017 S2	2017 09 25.51868	01 29 30.626	−04 34 52.73	20.9	T		F51
C/2017 S2	2017 09 26.44157	01 29 08.492	−04 35 48.89	20.8	T		F51
C/2017 S2	2017 09 26.45407	01 29 08.165	−04 35 49.67	20.9	T		F51
C/2017 S2	2017 09 26.46656	01 29 07.852	−04 35 50.42	20.8	T		F51
C/2017 S2	2017 09 26.47906	01 29 07.531	−04 35 51.13	20.9	T		F51
C/2017 S2	2017 09 29.51595	01 27 51.169	−04 38 41.83	20.9	T		F51
C/2017 S2	2017 09 29.51724	01 27 51.134	−04 38 41.89	20.8	T		F51
C/2017 S2	2017 09 29.52759	01 27 50.850	−04 38 42.40	21.0	T		F51
C/2017 S2	2017 09 29.52887	01 27 50.800	−04 38 42.68	21.1	T		F51
C/2017 S2	2017 09 29.53922	01 27 50.549	−04 38 43.02	20.9	T		F51
C/2017 S2	2017 09 29.54051	01 27 50.508	−04 38 43.16	21.0	T		F51
C/2017 S2	2017 09 29.55082	01 27 50.215	−04 38 43.64	21.2	T		F51
C/2017 S2	2017 09 29.55211	01 27 50.177	−04 38 43.84	21.1	T		F51

C/2017 S3 (PANSTARRS)

C/2017 S3	2017 08 17.32045	18 25 34.173	+80 16 42.35	21.8	T		F51
C/2017 S3	2017 08 17.33433	18 25 31.933	+80 16 36.56	21.8	T		F51
C/2017 S3	2017 08 17.34824	18 25 29.729	+80 16 30.11	22.1	T		F51
C/2017 S3	2017 08 17.36213	18 25 27.354	+80 16 23.92	22.2	T		F51
C/2017 S3	2017 09 07.25160	17 51 42.920	+77 02 16.62	21.0	T		F51
C/2017 S3	2017 09 07.26597	17 51 42.235	+77 02 06.75	21.8	T		F51
C/2017 S3	2017 09 07.28035	17 51 41.611	+77 01 57.38	21.0	T		F51
C/2017 S3	2017 09 23.24099	17 48 04.921	+73 58 18.70	21.5	T		F51
C/2017 S3	2017 09 23.25214	17 48 05.043	+73 58 10.25	21.2	T		F51
C/2017 S3	2017 09 23.26330	17 48 05.198	+73 58 02.12	21.3	T		F51
C/2017 S3	2017 09 23.27443	17 48 05.301	+73 57 54.18	21.3	T		F51
C/2017 S3	2017 09 24.12635	17 48 16.45	+73 47 35.5	20.8	T		926
C/2017 S3	2017 09 24.13914	17 48 16.73	+73 47 26.7	20.7	T		926
C/2017 S3	2017 09 24.15181	17 48 16.95	+73 47 17.2	20.5	T		926
C/2017 S3	2017 09 24.213104	17 48 17.882	+73 46 33.18	20.9	T	29	568
C/2017 S3	2017 09 24.214285	17 48 17.890	+73 46 32.48	21.0	T	29	568
C/2017 S3	2017 09 24.215463	17 48 17.860	+73 46 31.58	20.9	T	29	568
C/2017 S3	2017 09 24.216641	17 48 17.911	+73 46 30.63	21.2	T	29	568
C/2017 S3	2017 09 24.217815	17 48 17.905	+73 46 29.74	21.3	T	29	568
C/2017 S3	2017 09 24.218993	17 48 17.926	+73 46 28.84	21.3	T	29	568
C/2017 S3	2017 09 25.14677	17 48 32.29	+73 35 13.2				32H06
C/2017 S3	2017 09 25.15135	17 48 32.39	+73 35 09.6				32H06
C/2017 S3	2017 09 25.15594	17 48 32.53	+73 35 06.6	20.8	T		32H06
C/2017 S3	2017 09 26.10525	17 48 49.96	+73 23 31.9	20.7	T		926
C/2017 S3	2017 09 26.11486	17 48 50.31	+73 23 24.6	20.7	T		926
C/2017 S3	2017 09 26.12443	17 48 50.45	+73 23 18.2	20.6	T		926
C/2017 S3	2017 09 26.86358	17 49 05.39	+73 14 16.1	20.6	T	K	J01
C/2017 S3	2017 09 26.87972	17 49 05.69	+73 14 03.9	20.7	T	K	J01

C/2017 S3	2017 09 26.89586	17 49 05.92	+73 13 52.2	21.7	T	K J01
C/2017 S3	2017 09 27.84826	17 49 27.26	+73 02 12.5	20.3	N	J22
C/2017 S3	2017 09 27.87988	17 49 27.43	+73 01 50.9	20.3	N	J22

P/2017 S5 (ATLAS)

P/2017 S5	2017 09 01.44261	01 04 07.528	+25 46 29.99	19.2	T	F51
P/2017 S5	2017 09 01.45362	01 04 07.457	+25 46 32.09	19.2	T	F51
P/2017 S5	2017 09 01.47571	01 04 07.315	+25 46 36.01	19.2	T	F51
P/2017 S5	2017 09 11.52132	01 02 06.39	+25 59 41.1	18.5	T	T05
P/2017 S5	2017 09 11.52656	01 02 06.20	+25 59 41.2	18.6	T	T05
P/2017 S5	2017 09 11.53416	01 02 06.13	+25 59 40.7	18.5	T	T05
P/2017 S5	2017 09 11.54034	01 02 06.00	+25 59 40.6	18.6	T	T05
P/2017 S5	2017 09 13.48509	01 01 24.50	+25 58 33.9	18.3	T	T08
P/2017 S5	2017 09 13.49649	01 01 24.19	+25 58 34.3	18.0	T	T08
P/2017 S5	2017 09 13.50967	01 01 23.83	+25 58 33.0	17.6	T	T08
P/2017 S5	2017 09 13.51013	01 01 23.83	+25 58 33.1	18.6	T	T08
P/2017 S5	2017 09 17.47521	00 59 42.59	+25 52 23.8	17.9	T	T08
P/2017 S5	2017 09 17.48426	00 59 42.33	+25 52 23.4	18.1	T	T08
P/2017 S5	2017 09 17.49045	00 59 42.14	+25 52 21.9	18.2	T	T08
P/2017 S5	2017 09 17.50457	00 59 41.69	+25 52 20.5	18.4	T	T08
P/2017 S5	2017 09 23.46751	00 56 33.78	+25 33 11.4	18.4	T	T05
P/2017 S5	2017 09 23.47773	00 56 33.37	+25 33 08.5	18.3	T	T05
P/2017 S5	2017 09 23.49300	00 56 32.78	+25 33 04.3	17.9	T	T05
P/2017 S5	2017 09 23.49925	00 56 32.54	+25 33 03.1	17.8	T	T05
P/2017 S5	2017 09 27.48330	00 54 08.80	+25 13 42.5	18.2	T	T05
P/2017 S5	2017 09 27.49072	00 54 08.49	+25 13 39.8	18.2	T	T05
P/2017 S5	2017 09 27.49293	00 54 08.40	+25 13 39.2	17.8	T	T05
P/2017 S5	2017 09 27.49771	00 54 08.21	+25 13 37.4	18.2	T	T05
P/2017 S5	2017 09 28.20233	00 53 42.12	+25 09 38.4			5 U69
P/2017 S5	2017 09 28.20530	00 53 42.01	+25 09 37.5			5 U69
P/2017 S5	2017 09 28.20820	00 53 41.90	+25 09 36.7	17.6	T	5 U69
P/2017 S5	2017 09 28.24221	00 53 40.51	+25 09 25.7	17.9	T	I52
P/2017 S5	2017 09 28.24750	00 53 40.29	+25 09 23.7	18.0	T	I52
P/2017 S5	2017 09 28.25282	00 53 40.07	+25 09 21.9	17.9	T	I52
P/2017 S5	2017 09 28.25825	00 53 39.87	+25 09 20.2	18.0	T	I52
P/2017 S5	2017 09 28.29841	00 53 38.07	+25 09 06.0	18.4	T	KW25
P/2017 S5	2017 09 28.31465	00 53 37.40	+25 09 00.4	18.2	T	KW25
P/2017 S5	2017 09 28.59253	00 53 27.19	+25 07 23.5	18.3	T	D29
P/2017 S5	2017 09 28.60667	00 53 26.59	+25 07 18.5	17.9	T	D29
P/2017 S5	2017 09 28.61924	00 53 26.01	+25 07 14.6			900
P/2017 S5	2017 09 28.62081	00 53 26.02	+25 07 13.3	17.4	T	D29
P/2017 S5	2017 09 28.62638	00 53 25.74	+25 07 12.3			900
P/2017 S5	2017 09 28.63388	00 53 25.40	+25 07 09.4	17.9	T	900
P/2017 S5	2017 09 28.79472	00 53 19.57	+25 06 09.9	18.3	T	K A71
P/2017 S5	2017 09 28.80251	00 53 19.27	+25 06 08.4	17.6	T	K K88
P/2017 S5	2017 09 28.80574	00 53 19.14	+25 06 07.3	17.7	T	K K88
P/2017 S5	2017 09 28.80576	00 53 19.13	+25 06 06.0	18.2	T	K A71
P/2017 S5	2017 09 28.80898	00 53 19.03	+25 06 06.2	17.7	T	K K88
P/2017 S5	2017 09 28.81738	00 53 18.66	+25 06 02.4	18.1	T	K A71
P/2017 S5	2017 09 28.82523	00 53 18.41	+25 05 59.6	18.2	T	K J08
P/2017 S5	2017 09 28.83416	00 53 18.05	+25 05 56.8	18.1	T	K J08
P/2017 S5	2017 09 28.84086	00 53 17.80	+25 05 54.7	18.2	T	K J08
P/2017 S5	2017 09 28.85394	00 53 17.31	+25 05 50.1	18.1	T	K C77
P/2017 S5	2017 09 28.85650	00 53 17.17	+25 05 48.8	18.2	T	K J08
P/2017 S5	2017 09 28.86525	00 53 16.84	+25 05 45.7	18.4	T	K C77
P/2017 S5	2017 09 28.86766	00 53 16.73	+25 05 44.8	18.0	T	K J08
P/2017 S5	2017 09 28.87099	00 53 16.55	+25 05 44.3	17.9	T	K L04
P/2017 S5	2017 09 28.87716	00 53 16.39	+25 05 42.3	18.1	T	K C77
P/2017 S5	2017 09 28.87770	00 53 16.33	+25 05 41.5	17.4	T	K J08
P/2017 S5	2017 09 28.88328	00 53 16.05	+25 05 40.2	17.9	T	K L04
P/2017 S5	2017 09 28.89233	00 53 15.68	+25 05 36.8	17.8	T	K L04
P/2017 S5	2017 09 28.92465	00 53 14.50	+25 05 25.6	18.0	T	K A77
P/2017 S5	2017 09 28.93220	00 53 14.19	+25 05 22.7	18.0	T	K A77
P/2017 S5	2017 09 28.93973	00 53 13.86	+25 05 19.8	17.9	T	K A77
P/2017 S5	2017 09 28.94725	00 53 13.55	+25 05 17.5	18.1	T	K A77
P/2017 S5	2017 09 28.95002	00 53 13.64	+25 05 17.9	17.9	T	9 G40
P/2017 S5	2017 09 28.95289	00 53 13.36	+25 05 15.8	17.9	T	511
P/2017 S5	2017 09 28.95397	00 53 13.32	+25 05 15.4	17.8	T	511
P/2017 S5	2017 09 28.95476	00 53 13.26	+25 05 14.7	18.0	T	K A77
P/2017 S5	2017 09 28.95505	00 53 13.27	+25 05 15.1	17.9	T	511
P/2017 S5	2017 09 28.95612	00 53 13.23	+25 05 14.7	18.0	T	511
P/2017 S5	2017 09 28.95720	00 53 13.19	+25 05 14.3	17.9	T	511
P/2017 S5	2017 09 28.96118	00 53 13.02	+25 05 13.0	17.9	T	511
P/2017 S5	2017 09 28.96229	00 53 12.95	+25 05 11.8	17.9	T	K A77
P/2017 S5	2017 09 28.96260	00 53 12.97	+25 05 12.4	18.0	T	511
P/2017 S5	2017 09 28.96402	00 53 12.91	+25 05 11.9	18.0	T	511
P/2017 S5	2017 09 28.96544	00 53 12.85	+25 05 11.5	17.9	T	511
P/2017 S5	2017 09 28.96686	00 53 12.80	+25 05 10.9	17.9	T	511
P/2017 S5	2017 09 28.97057	00 53 12.64	+25 05 09.6	17.9	T	511
P/2017 S5	2017 09 28.97200	00 53 12.59	+25 05 09.0	17.9	T	511
P/2017 S5	2017 09 28.97343	00 53 12.53	+25 05 08.6	17.9	T	511
P/2017 S5	2017 09 28.97485	00 53 12.47	+25 05 08.1	18.0	T	511
P/2017 S5	2017 09 28.97627	00 53 12.42	+25 05 07.6	18.0	T	511
P/2017 S5	2017 09 28.97769	00 53 12.36	+25 05 07.1	18.0	T	511
P/2017 S5	2017 09 28.99031	00 53 12.02	+25 05 03.9	17.8	T	9 G40
P/2017 S5	2017 09 29.00302	00 53 11.49	+25 04 59.5			12G40
P/2017 S5	2017 09 29.01307	00 53 11.08	+25 04 56.1	18.1	T	12G40
P/2017 S5	2017 09 29.05611	00 53 09.33	+25 04 40.7	17.9	N	J22
P/2017 S5	2017 09 29.05784	00 53 09.26	+25 04 40.0	17.9	T	K J22
P/2017 S5	2017 09 29.06275	00 53 09.08	+25 04 38.6	17.9	T	K J22
P/2017 S5	2017 09 29.06759	00 53 08.85	+25 04 36.6	17.8	T	K J22
P/2017 S5	2017 09 29.06920	00 53 08.79	+25 04 36.0	17.9	N	J22
P/2017 S5	2017 09 29.17702	00 53 04.83	+25 03 56.2	18.1	T	K 850
P/2017 S5	2017 09 29.19297	00 53 04.20	+25 03 50.6	18.3	T	K 850
P/2017 S5	2017 09 29.20823	00 53 03.56	+25 03 45.6	18.2	T	K 850
P/2017 S5	2017 09 29.22294	00 53 02.98	+25 03 39.7	18.0	T	K 850
P/2017 S5	2017 09 29.23758	00 53 02.36	+25 03 34.0	18.2	T	K 850
P/2017 S5	2017 09 29.58075	00 52 48.81	+25 01 30.3	17.6	N	T03
P/2017 S5	2017 09 29.58229	00 52 48.98	+25 01 29.8	17.6	T	K T03
P/2017 S5	2017 09 29.58381	00 52 48.69	+25 01 29.3	17.5	N	T03
P/2017 S5	2017 09 29.58532	00 52 48.89	+25 01 28.7	17.5	T	K T03
P/2017 S5	2017 09 29.58834	00 52 48.53	+25 01 27.6	17.5	N	T03
P/2017 S5	2017 09 29.58985	00 52 48.72	+25 01 26.9	17.5	T	K T03
P/2017 S5	2017 09 29.59136	00 52 48.35	+25 01 26.4	17.5	N	T03
P/2017 S5	2017 09 29.97326	00 52 34.05	+24 59 01.5	18.1	N	A77
P/2017 S5	2017 09 29.97719	00 52 33.84	+24 59 00.7	18.2	N	K C47

P/2017 S5	2017 09 29.98088	00 52 33.68	+24 58 59.0	18.3	N	K C47
P/2017 S5	2017 09 29.98457	00 52 33.55	+24 58 57.9	18.0	N	K C47
P/2017 S5	2017 09 29.98826	00 52 33.40	+24 58 56.5	18.4	N	K C47
P/2017 S5	2017 09 29.99380	00 52 33.15	+24 58 54.1	18.3	N	K C47
P/2017 S5	2017 09 30.01730	00 52 32.20	+24 58 46.4	17.8	N	A77
P/2017 S5	2017 09 30.05987	00 52 30.50	+24 58 30.1	18.0	N	A77
P/2017 S5	2017 09 30.41307	00 52 16.70	+24 56 16.3	17.8	T	G96
P/2017 S5	2017 09 30.41783	00 52 16.51	+24 56 14.6	17.9	T	G96
P/2017 S5	2017 09 30.42258	00 52 16.30	+24 56 12.7	17.8	T	G96
P/2017 S5	2017 09 30.42733	00 52 16.12	+24 56 10.9	17.9	T	G96

2P/Encke

2P	2016 11 08.79584	23 10 47.68	+07 55 46.0	17.3	N	A24
2P	2016 11 08.79656	23 10 47.56	+07 55 45.1	17.8	N	A24
2P	2017 06 23.73041	22 30 07.73	−20 15 20.9	17.8	N	Q68
2P	2017 06 23.73658	22 30 07.15	−20 15 24.3	18.0	N	Q68
2P	2017 06 30.64321	22 18 31.96	−21 20 43.7	18.5	N	Q68
2P	2017 06 30.64928	22 18 31.28	−21 20 47.2	18.3	N	Q68
2P	2017 07 01.69662	22 16 34.21	−21 31 02.3	18.5	N	Q68
2P	2017 07 01.70265	22 16 33.51	−21 31 05.4	18.2	N	Q68
2P	2017 07 02.63898	22 14 46.74	−21 40 17.1	18.1	N	Q68
2P	2017 07 02.64502	22 14 46.03	−21 40 20.5	18.2	N	Q68
2P	2017 07 06.50947	22 07 02.01	−22 18 30.1	17.8	T	T05
2P	2017 07 06.51886	22 07 00.73	−22 18 35.7	17.9	T	T05
2P	2017 07 06.52825	22 06 59.56	−22 18 40.9	17.9	T	T05
2P	2017 07 06.53755	22 06 58.36	−22 18 47.0	18.1	T	T05
2P	2017 07 07.73954	22 04 26.91	−22 30 25.6	18.6	N	Q68
2P	2017 07 07.74582	22 04 26.10	−22 30 29.3	18.6	N	Q68
2P	2017 07 08.46411	22 02 54.60	−22 37 35.6	17.9	T	T08
2P	2017 07 08.47295	22 02 53.68	−22 37 40.8	18.0	T	T08
2P	2017 07 08.48168	22 02 52.40	−22 37 46.8	18.4	T	T08
2P	2017 07 08.49069	22 02 51.12	−22 37 51.0	18.4	T	T08
2P	2017 07 13.60917	21 51 29.27	−23 26 16.5	17.8	N	Q68
2P	2017 07 13.61522	21 51 28.46	−23 26 19.9	18.0	N	Q68
2P	2017 07 14.53427	21 49 21.54	−23 34 49.0	18.2	T	T05
2P	2017 07 14.53720	21 49 21.11	−23 34 50.8	18.1	T	T05
2P	2017 07 14.54804	21 49 19.59	−23 34 57.2	18.1	T	T05
2P	2017 07 14.56402	21 49 17.32	−23 35 04.3	18.1	T	T05
2P	2017 07 15.70770	21 46 38.20	−23 45 12.2	18.2	N	Q68
2P	2017 07 15.71389	21 46 37.32	−23 45 15.6	18.2	N	Q68
2P	2017 07 16.51093	21 44 45.70	−23 52 22.1	17.8	T	T08
2P	2017 07 16.51238	21 44 45.48	−23 52 22.9	17.8	T	T08
2P	2017 07 16.52306	21 44 43.94	−23 52 28.3	17.9	T	T08
2P	2017 07 16.53956	21 44 41.61	−23 52 37.2	18.1	T	T08
2P	2017 07 17.58126	21 42 14.84	−24 01 28.0	17.6	N	Q65
2P	2017 07 17.58765	21 42 13.95	−24 01 31.6	17.6	N	Q65
2P	2017 07 17.59422	21 42 12.96	−24 01 34.8	17.8	N	Q65
2P	2017 07 17.59717	21 42 12.54	−24 01 36.1	17.4	N	Q68
2P	2017 07 17.60318	21 42 11.67	−24 01 38.9	16.9	N	Q68
2P	2017 07 17.60679	21 42 11.15	−24 01 41.4	17.7	N	Q65
2P	2017 07 18.64905	21 39 43.07	−24 10 33.2	17.2	T	349
2P	2017 07 18.65808	21 39 41.73	−24 10 37.5			349
2P	2017 07 20.50826	21 35 17.46	−24 25 33.9	17.4	T	T08
2P	2017 07 20.51841	21 35 15.94	−24 25 38.3	17.5	T	T08
2P	2017 07 20.52084	21 35 15.61	−24 25 39.8	17.6	T	T08
2P	2017 07 20.53702	21 35 13.22	−24 25 47.4	17.5	T	T08
2P	2017 07 20.64861	21 34 57.37	−24 26 33.7	18.2	N	Q68
2P	2017 07 20.65462	21 34 56.47	−24 26 36.6	18.4	N	Q68
2P	2017 07 21.50986	21 32 53.81	−24 33 19.9	17.6	T	T08
2P	2017 07 21.51394	21 32 53.23	−24 33 22.0	17.7	T	T08
2P	2017 07 21.51892	21 32 52.48	−24 33 24.6	17.6	T	T08
2P	2017 07 21.52299	21 32 51.86	−24 33 26.2	17.7	T	T08
2P	2017 07 21.52847	21 32 51.04	−24 33 28.1	17.8	T	T08
2P	2017 07 21.53257	21 32 50.41	−24 33 30.7	17.7	T	T08
2P	2017 07 21.53751	21 32 49.73	−24 33 32.0	17.8	T	T08
2P	2017 07 21.54152	21 32 49.12	−24 33 34.7	18.0	T	T08
2P	2017 07 21.62781	21 32 36.96	−24 34 07.5	18.1	N	Q68
2P	2017 07 21.63411	21 32 36.03	−24 34 10.4	18.2	N	Q68
2P	2017 07 24.48536	21 25 46.76	−24 54 55.9	18.2	T	T08
2P	2017 07 24.48750	21 25 46.40	−24 54 57.9	17.9	T	T08
2P	2017 07 24.49551	21 25 45.23	−24 55 00.8	18.0	T	T08
2P	2017 07 24.49843	21 25 44.80	−24 55 01.8	17.9	T	T08
2P	2017 07 24.51055	21 25 43.04	−24 55 06.7	18.0	T	T08
2P	2017 07 24.58024	21 25 33.32	−24 55 29.1	17.8	N	Q65
2P	2017 07 24.59343	21 25 31.40	−24 55 34.6	17.8	N	Q65
2P	2017 07 24.60624	21 25 29.53	−24 55 39.9	17.6	N	Q65
2P	2017 07 26.47512	21 21 02.43	−25 08 04.5	17.6	T	T05
2P	2017 07 26.48536	21 21 00.94	−25 08 08.5	17.6	T	T05
2P	2017 07 26.50049	21 20 58.74	−25 08 14.0	17.6	T	T05
2P	2017 07 26.50927	21 20 57.45	−25 08 17.7	17.7	T	T05
2P	2017 08 05.53858	20 58 06.62	−25 57 05.5	18.0	N	K E94
2P	2017 08 05.54358	20 58 06.07	−25 57 05.6	18.0	N	K E94
2P	2017 08 05.59380	20 57 59.35	−25 57 16.7	18.0	N	K E94
2P	2017 08 12.43749	20 44 09.87	−26 14 23.3	18.4	T	T05
2P	2017 08 12.44615	20 44 08.88	−26 14 25.7	18.5	T	T05
2P	2017 08 12.45481	20 44 07.85	−26 14 26.5	18.5	T	T05
2P	2017 08 12.46347	20 44 06.88	−26 14 26.4	18.6	T	T05
2P	2017 08 15.37264	20 38 48.977	−26 18 05.06	19.1	T	F51
2P	2017 08 15.39369	20 38 46.698	−26 18 06.23	18.8	T	F51
2P	2017 08 15.40422	20 38 45.557	−26 18 06.81	18.7	T	F51
2P	2017 09 12.43558	20 07 34.03	−25 40 37.8	19.7	N	K Q68
2P	2017 09 12.49659	20 07 32.05	−25 40 27.7	20.0	N	K Q68
2P	2017 09 14.330057	20 06 40.691	−25 35 19.51	20.2	T	29 568
2P	2017 09 14.331233	20 06 40.658	−25 35 19.30	20.3	T	29 568

9P/Tempel

9P	2017 09 02.56750	02 05 01.700	+01 20 22.73	20.4	T	F51
9P	2017 09 02.58104	02 05 01.390	+01 20 19.99	20.4	T	F51
9P	2017 09 02.59473	02 05 01.073	+01 20 17.19	20.5	T	F51
9P	2017 09 02.60829	02 05 00.765	+01 20 14.44	20.4	T	F51
9P	2017 09 22.00452	01 54 31.95	+00 04 07.0	19.4	T	106
9P	2017 09 22.01978	01 54 31.28	+00 04 03.4	19.3	T	106
9P	2017 09 22.03504	01 54 30.65	+00 03 59.3	19.0	T	106
9P	2017 09 22.05030	01 54 29.95	+00 03 55.5	19.3	T	106
9P	2017 09 29.52046	01 48 54.190	−00 27 51.12	19.9	T	F51
9P	2017 09 29.53209	01 48 53.623	−00 27 54.05	19.9	T	F51

9P	2017 09 29.54372	01 48 53.059	−00 27 56.97	19.8	T	F51
9P	2017 09 29.55533	01 48 52.496	−00 27 59.91	19.8	T	F51

14P/Wolf

14P	2017 07 28.97817	22 29 13.33	+23 07 15.5	19.5	N	K A71
14P	2017 07 28.98792	22 29 13.09	+23 07 15.1	19.9	N	K A71
14P	2017 07 28.99766	22 29 13.01	+23 07 14.8	19.3	N	K A71
14P	2017 08 03.09833	22 27 47.07	+23 04 33.1	20.2	N	K A77
14P	2017 08 03.12367	22 27 46.53	+23 04 30.7	20.2	N	K A77
14P	2017 08 14.96672	22 23 01.40	+22 27 41.3	19.6	N	K A71
14P	2017 08 14.98123	22 23 00.95	+22 27 36.9	19.6	N	K A71
14P	2017 08 14.99573	22 23 00.51	+22 27 33.3	19.7	N	K A71
14P	2017 08 23.69718	22 18 38.08	+21 31 50.4	19.7	T	D29
14P	2017 08 23.71486	22 18 37.53	+21 31 41.7	19.0	T	D29
14P	2017 08 23.73254	22 18 36.89	+21 31 33.7	18.9	T	D29
14P	2017 09 01.31360	22 14 05.49	+20 13 20.5	19.1	T	G96
14P	2017 09 01.31781	22 14 05.36	+20 13 18.2	18.9	T	G96
14P	2017 09 01.32203	22 14 05.20	+20 13 15.5	18.8	T	G96
14P	2017 09 01.32625	22 14 05.09	+20 13 12.9	18.8	T	G96
14P	2017 09 01.34222	22 14 04.784	+20 13 03.49	18.9	T	F51
14P	2017 09 01.35455	22 14 04.380	+20 12 55.80	18.9	T	F51
14P	2017 09 01.36691	22 14 03.968	+20 12 48.21	18.8	T	F51
14P	2017 09 01.37937	22 14 03.560	+20 12 40.39	18.7	T	F51
14P	2017 09 03.44111	22 12 59.63	+19 50 40.7			G96
14P	2017 09 03.44899	22 12 59.38	+19 50 35.5			G96
14P	2017 09 03.45715	22 12 59.12	+19 50 30.1	16.8	T	G96
14P	2017 09 03.46556	22 12 58.85	+19 50 24.2	16.8	T	G96
14P	2017 09 11.42976	22 09 10.53	+18 15 40.5	18.9	T	T05
14P	2017 09 11.43600	22 09 10.39	+18 15 35.6	18.5	T	T05
14P	2017 09 11.44354	22 09 10.14	+18 15 29.9	18.7	T	T05
14P	2017 09 11.45432	22 09 09.85	+18 15 21.9	18.9	T	T05
14P	2017 09 17.39706	22 06 46.73	+16 56 14.5	18.9	T	T08
14P	2017 09 17.39798	22 06 46.72	+16 56 13.3	19.1	T	T08
14P	2017 09 17.40982	22 06 46.44	+16 56 03.3	18.9	T	T08
14P	2017 09 17.42047	22 06 46.13	+16 55 54.7	18.7	T	T08
14P	2017 09 21.85021	22 05 20.46	+15 53 31.5	18.9	T	K 215
14P	2017 09 21.85149	22 05 20.43	+15 53 30.6	19.0	T	K 215
14P	2017 09 21.85277	22 05 20.40	+15 53 29.7	19.0	T	K 215
14P	2017 09 24.94309	22 04 32.78	+15 08 51.9	19.5	N	K A77
14P	2017 09 24.95754	22 04 32.59	+15 08 39.2	19.6	N	K A77
14P	2017 09 24.97199	22 04 32.32	+15 08 26.1	19.4	N	K A77
14P	2017 09 26.19739	22 04 16.75	+14 50 34.7	19.3	T	G96
14P	2017 09 26.20309	22 04 16.68	+14 50 29.8			G96
14P	2017 09 26.20880	22 04 16.59	+14 50 24.9			G96
14P	2017 09 26.21453	22 04 16.50	+14 50 19.9	19.4	T	G96
14P	2017 09 29.83766	22 03 40.65	+13 57 07.3	19.6	N	K A71
14P	2017 09 29.84950	22 03 40.51	+13 56 57.1	19.3	N	K A71
14P	2017 09 29.86133	22 03 40.43	+13 56 46.1	19.5	N	K A71

24P/Schaumasse

24P	2017 07 24.39269	05 11 22.63	+19 27 48.0	19.3	N	KW96
24P	2017 07 24.40946	05 11 25.26	+19 27 51.7	19.5	N	KW96
24P	2017 07 26.40057	05 16 46.74	+19 40 18.8	19.0	N	KW96
24P	2017 07 26.41582	05 16 49.27	+19 40 24.4	19.4	N	KW96
24P	2017 07 29.38841	05 24 57.86	+19 58 07.6	19.4	N	KW96
24P	2017 07 29.41126	05 25 01.62	+19 58 15.5	19.2	N	KW96
24P	2017 08 15.21064	06 14 26.19	+21 16 06.7	19.4	N	11G40
24P	2017 08 15.22119	06 14 28.14	+21 16 08.2	19.1	N	11G40
24P	2017 08 15.22747	06 14 29.30	+21 16 10.1			11G40
24P	2017 08 29.23806	07 00 24.43	+21 43 39.9	17.4	N	J22
24P	2017 08 29.23998	07 00 24.67	+21 43 38.5	17.4	N	J22
24P	2017 08 29.24191	07 00 25.04	+21 43 36.6	17.4	N	J22
24P	2017 09 01.14877	07 10 29.86	+21 44 00.4	17.6	N	K A77
24P	2017 09 01.15451	07 10 31.05	+21 43 59.9	17.7	N	K A77
24P	2017 09 01.16026	07 10 32.27	+21 44 00.2	17.8	N	K A77
24P	2017 09 01.80457	07 12 47.74	+21 43 48.3			K 367
24P	2017 09 01.80579	07 12 47.99	+21 43 48.5	17.2	T	K 367
24P	2017 09 02.77072	07 16 12.00	+21 43 19.6	15.8	T	349
24P	2017 09 02.77985	07 16 13.97	+21 43 19.1			349
24P	2017 09 02.78900	07 16 15.89	+21 43 18.4			349
24P	2017 09 04.22443	07 21 21.63	+21 42 08.4	17.8	N	9 G40
24P	2017 09 04.23428	07 21 23.71	+21 42 07.7	17.6	N	9 G40
24P	2017 09 04.23944	07 21 24.77	+21 42 06.9	17.7	N	9 G40
24P	2017 09 10.14153	07 42 49.94	+21 31 28.1	17.2	N	K C23
24P	2017 09 10.14514	07 42 50.67	+21 31 27.2	16.8	N	K C23
24P	2017 09 10.14874	07 42 51.42	+21 31 27.2	17.5	N	K C23
24P	2017 09 11.22642	07 46 50.98	+21 28 29.8	17.3	N	9 G40
24P	2017 09 11.22946	07 46 51.64	+21 28 29.6	17.4	N	9 G40
24P	2017 09 12.12652	07 50 11.80	+21 25 43.7	18.1	N	K K02
24P	2017 09 12.13162	07 50 13.10	+21 25 42.2	17.8	N	K K02
24P	2017 09 12.13674	07 50 14.30	+21 25 41.2	17.3	N	K K02
24P	2017 09 14.14053	07 57 45.32	+21 18 44.1	17.2	T	K 215
24P	2017 09 14.14181	07 57 45.56	+21 18 43.5	17.8	T	K 215
24P	2017 09 14.14310	07 57 45.98	+21 18 43.7	17.3	T	K 215
24P	2017 09 15.14433	08 01 33.13	+21 14 47.7	17.1	N	K A77
24P	2017 09 15.15174	08 01 34.82	+21 14 46.1	17.1	N	K A77
24P	2017 09 15.15914	08 01 36.50	+21 14 44.3	15.8	T	K A77
24P	2017 09 17.02029	08 08 41.79	+21 06 37.4			L51
24P	2017 09 17.02245	08 08 42.15	+21 06 36.6	16.7	N	L51
24P	2017 09 17.02462	08 08 42.64	+21 06 35.8	14.5	T	L51
24P	2017 09 17.02895	08 08 43.70	+21 06 34.9			L51
24P	2017 09 17.14247	08 09 09.75	+21 06 02.7	17.0	N	C23
24P	2017 09 17.14680	08 09 10.71	+21 06 01.6	16.8	N	C23
24P	2017 09 17.15113	08 09 11.72	+21 06 00.7	16.4	N	C23
24P	2017 09 17.36536	08 10 00.89	+21 05 06.6	17.2	N	W96
24P	2017 09 17.39089	08 10 06.90	+21 04 59.7	17.1	N	W96
24P	2017 09 19.12018	08 16 46.02	+20 56 10.9	16.9	N	I81
24P	2017 09 19.12987	08 16 48.16	+20 56 08.0	16.9	N	I81
24P	2017 09 19.13697	08 16 49.78	+20 56 05.0	16.5	N	I81
24P	2017 09 20.48308	08 22 02.79	+20 48 43.2			32H06
24P	2017 09 20.48487	08 22 03.20	+20 48 42.7			32H06
24P	2017 09 20.48663	08 22 03.61	+20 48 42.4	14.6	T	32H06
24P	2017 09 22.12916	08 28 27.76	+20 38 50.7	16.5	N	C23
24P	2017 09 22.13348	08 28 28.79	+20 38 50.0	16.5	N	C23
24P	2017 09 22.13781	08 28 29.92	+20 38 47.2	16.4	N	C23
24P	2017 09 22.16516	08 28 36.16	+20 38 37.2	16.5	N	I81
24P	2017 09 22.17122	08 28 37.60	+20 38 35.0	16.9	N	I81

24P	2017 09 22.17548	08 28 38.61	+20 38 33.3	16.4	N	I81
24P	2017 09 23.12078	08 32 20.97	+20 32 30.6	17.0	N	K C10
24P	2017 09 23.14811	08 32 27.41	+20 32 20.0	17.1	N	K C10
24P	2017 09 23.17355	08 32 33.44	+20 32 10.7	16.8	N	J01
24P	2017 09 23.17677	08 32 34.23	+20 32 09.8	16.7	N	J01
24P	2017 09 23.17718	08 32 34.25	+20 32 08.8	17.1	N	K C10
24P	2017 09 23.17999	08 32 34.99	+20 32 07.7	16.7	N	J01
24P	2017 09 29.23788	08 56 38.14	+19 46 23.2	16.7	N	9 G40
24P	2017 09 29.24277	08 56 39.32	+19 46 20.9	16.7	N	9 G40
24P	2017 09 29.25380	08 56 41.95	+19 46 15.1	16.8	N	9 G40
24P	2017 10 01.00411	09 03 44.13	+19 30 45.8			L51
24P	2017 10 01.00709	09 03 44.78	+19 30 43.5	16.1	N	L51
24P	2017 10 01.00858	09 03 45.17	+19 30 42.8	13.8	T	L51
24P	2017 10 01.01155	09 03 45.82	+19 30 41.4			L51

29P/Schwassmann-Wachmann

29P	2017 06 23.62819	21 40 53.63	−13 19 13.7	14.0	T	D95
29P	2017 06 23.63681	21 40 53.54	−13 19 14.0			D95
29P	2017 06 23.67874	21 40 53.05	−13 19 12.2	16.1	N	Q68
29P	2017 06 23.74577	21 40 52.33	−13 19 11.8	16.1	N	Q68
29P	2017 06 25.59973	21 40 32.08	−13 19 13.7	16.3	N	Q68
29P	2017 06 25.67230	21 40 31.19	−13 19 13.5	16.2	N	Q68
29P	2017 06 30.58425	21 39 27.00	−13 20 03.2	15.6	N	Q68
29P	2017 06 30.65782	21 39 25.88	−13 20 04.7	15.5	N	Q68
29P	2017 07 01.64528	21 39 11.21	−13 20 22.6	15.6	N	Q68
29P	2017 07 01.66902	21 39 10.83	−13 20 23.5	15.6	N	Q68
29P	2017 07 01.71091	21 39 10.18	−13 20 24.8	15.6	N	Q68
29P	2017 07 01.96809	21 39 06.36	−13 20 31.4	16.2	N	K A71
29P	2017 07 01.97613	21 39 06.21	−13 20 31.4	16.2	N	K A71
29P	2017 07 01.98500	21 39 06.06	−13 20 31.6	15.8	N	K A71
29P	2017 07 01.99388	21 39 05.92	−13 20 31.7	15.7	N	K A71
29P	2017 07 02.57752	21 38 56.90	−13 20 42.5	14.4	N	Q68
29P	2017 07 02.60019	21 38 56.50	−13 20 42.7	14.2	N	Q68
29P	2017 07 02.65337	21 38 55.64	−13 20 43.9	14.2	N	Q68
29P	2017 07 03.09891	21 38 48.56	−13 20 56.0	13.8	N	J22
29P	2017 07 03.10279	21 38 48.53	−13 20 56.0	13.8	N	J22
29P	2017 07 03.10471	21 38 48.49	−13 20 55.8	13.8	N	J22
29P	2017 07 04.05199	21 38 33.12	−13 21 19.7	14.0	N	J22
29P	2017 07 04.05394	21 38 33.08	−13 21 19.7	14.0	N	J22
29P	2017 07 06.04641	21 37 59.13	−13 22 16.6	13.9	N	213
29P	2017 07 06.08227	21 37 58.51	−13 22 18.1	13.9	N	213
29P	2017 07 06.13156	21 37 57.58	−13 22 20.3	14.0	N	213
29P	2017 07 07.03789	21 37 41.43	−13 22 49.5	14.3	N	A77
29P	2017 07 07.07699	21 37 40.72	−13 22 51.6	14.4	N	A77
29P	2017 07 07.11385	21 37 40.05	−13 22 52.5	14.4	N	A77
29P	2017 07 07.70354	21 37 29.28	−13 23 11.0	14.7	N	Q68
29P	2017 07 07.75438	21 37 28.27	−13 23 12.5	14.7	N	Q68
29P	2017 07 08.73244	21 37 09.98	−13 23 51.3	13.4	T	349
29P	2017 07 08.73873	21 37 09.87	−13 23 51.5			349
29P	2017 07 09.02584	21 37 04.41	−13 24 01.1	15.3	N	B96
29P	2017 07 09.03565	21 37 04.20	−13 24 02.3	15.3	N	B96
29P	2017 07 09.04382	21 37 04.09	−13 24 02.6	15.2	N	B96
29P	2017 07 09.05373	21 37 03.80	−13 24 02.9	15.4	N	B96
29P	2017 07 09.06737	21 37 03.48	−13 24 04.7	14.7	N	213
29P	2017 07 09.08260	21 37 03.34	−13 24 05.1	14.7	N	213
29P	2017 07 09.08641	21 37 03.23	−13 24 04.5	14.7	N	213
29P	2017 07 09.19143	21 37 01.30	−13 24 07.9	15.0	N	W96
29P	2017 07 09.21354	21 37 00.86	−13 24 08.2	15.0	N	W96
29P	2017 07 09.24014	21 37 00.31	−13 24 09.4	15.0	N	W96
29P	2017 07 10.16673	21 36 42.29	−13 24 47.4	15.3	N	W96
29P	2017 07 10.18858	21 36 41.84	−13 24 48.0	15.3	N	W96
29P	2017 07 10.21116	21 36 41.40	−13 24 48.3	15.3	N	W96
29P	2017 07 11.05351	21 36 24.50	−13 25 24.8	15.6	N	K A77
29P	2017 07 11.08166	21 36 23.98	−13 25 26.7	15.6	N	K A77
29P	2017 07 11.11028	21 36 23.32	−13 25 28.1	15.4	N	K A77
29P	2017 07 12.98155	21 35 44.71	−13 26 51.8	15.1	N	J01
29P	2017 07 12.99610	21 35 44.39	−13 26 53.3	15.1	N	J01
29P	2017 07 13.02534	21 35 43.80	−13 26 54.7	15.1	N	J01
29P	2017 07 13.04622	21 35 43.32	−13 26 55.6	16.0	N	K A77
29P	2017 07 13.04830	21 35 43.27	−13 26 56.2	16.1	N	K C23
29P	2017 07 13.05279	21 35 43.19	−13 26 56.0	15.8	N	K C23
29P	2017 07 13.05578	21 35 43.10	−13 26 56.1	15.9	N	K C23
29P	2017 07 13.08173	21 35 42.61	−13 26 59.0	16.0	N	K A77
29P	2017 07 13.11698	21 35 41.84	−13 26 59.9	16.1	N	K A77
29P	2017 07 13.61745	21 35 31.14	−13 27 20.4	16.4	N	Q68
29P	2017 07 13.68428	21 35 29.73	−13 27 24.3	16.1	N	Q68
29P	2017 07 13.70705	21 35 29.21	−13 27 25.4	16.1	N	Q68
29P	2017 07 13.98970	21 35 23.23	−13 27 42.0	15.1	N	J01
29P	2017 07 14.00425	21 35 22.89	−13 27 42.8	15.2	N	J01
29P	2017 07 14.02736	21 35 22.42	−13 27 43.9	16.0	N	K A77
29P	2017 07 14.03699	21 35 22.19	−13 27 43.8	15.2	N	J01
29P	2017 07 14.06713	21 35 21.53	−13 27 47.4	15.8	N	K A77
29P	2017 07 14.11475	21 35 20.45	−13 27 49.2	16.0	N	K A77
29P	2017 07 14.98587	21 35 01.48	−13 28 32.5	15.7	N	C23
29P	2017 07 14.99410	21 35 01.31	−13 28 33.0	15.8	N	C23
29P	2017 07 15.00009	21 35 01.14	−13 28 33.2	16.2	N	C23
29P	2017 07 15.52526	21 34 49.48	−13 29 00.1	16.5	T	T05
29P	2017 07 15.53407	21 34 49.27	−13 29 00.6	16.4	T	T05
29P	2017 07 15.54289	21 34 49.08	−13 29 01.1	16.6	T	T05
29P	2017 07 15.55166	21 34 48.86	−13 29 01.5	16.4	T	T05
29P	2017 07 15.56709	21 34 48.504	−13 29 01.84	17.0	T	F51
29P	2017 07 15.57963	21 34 48.210	−13 29 02.51	17.0	T	F51
29P	2017 07 15.59217	21 34 47.927	−13 29 03.15	16.9	T	F51
29P	2017 07 15.60476	21 34 47.635	−13 29 03.79	16.9	T	F51
29P	2017 07 15.65549	21 34 46.60	−13 29 05.3	16.4	N	Q68
29P	2017 07 15.72214	21 34 45.06	−13 29 08.6	16.3	N	Q68
29P	2017 07 16.01775	21 34 38.51	−13 29 26.5	15.9	N	C35
29P	2017 07 16.01929	21 34 38.47	−13 29 26.4	15.8	N	C35
29P	2017 07 16.02081	21 34 38.48	−13 29 26.7	15.9	N	C35
29P	2017 07 16.02233	21 34 38.44	−13 29 27.2	15.8	N	C35
29P	2017 07 16.02383	21 34 38.34	−13 29 25.9	15.8	N	C35
29P	2017 07 16.02534	21 34 38.34	−13 29 27.0	15.8	N	C35
29P	2017 07 16.31792	21 34 31.70	−13 29 41.7	16.0	N	W96
29P	2017 07 16.35865	21 34 30.74	−13 29 44.2	16.1	N	W96
29P	2017 07 16.38950	21 34 30.00	−13 29 45.4	16.1	N	W96
29P	2017 07 17.02191	21 34 15.73	−13 30 23.0	16.3	N	K A77

29P	2017 07 17.04269	21 34 15.24	−13 30 22.7	15.5	N	J22	29P	2017 07 18.95839	21 33 30.53	−13 32 14.1	15.3	N	585
29P	2017 07 17.04664	21 34 15.15	−13 30 22.9	15.5	N	J22	29P	2017 07 18.95910	21 33 30.50	−13 32 14.0	15.4	N	585
29P	2017 07 17.05060	21 34 15.08	−13 30 23.1	15.5	N	J22	29P	2017 07 18.95981	21 33 30.49	−13 32 13.9	15.4	N	585
29P	2017 07 17.06466	21 34 14.72	−13 30 25.9	16.1	N	K A77	29P	2017 07 18.96052	21 33 30.47	−13 32 14.2	15.4	N	585
29P	2017 07 17.10888	21 34 13.68	−13 30 27.3	16.1	N	K A77	29P	2017 07 18.96122	21 33 30.44	−13 32 13.9	15.4	N	585
29P	2017 07 17.52803	21 34 04.00	−13 30 50.4	16.4	T	T08	29P	2017 07 18.96194	21 33 30.45	−13 32 14.0	15.3	N	585
29P	2017 07 17.53711	21 34 03.79	−13 30 51.3	16.5	T	T08	29P	2017 07 18.96265	21 33 30.42	−13 32 13.9	15.3	N	585
29P	2017 07 17.53733	21 34 03.87	−13 30 48.8	16.5	N	Q68	29P	2017 07 18.96336	21 33 30.38	−13 32 14.2	15.4	N	585
29P	2017 07 17.54565	21 34 03.58	−13 30 51.5	16.5	T	T08	29P	2017 07 18.96407	21 33 30.38	−13 32 14.2	15.3	N	585
29P	2017 07 17.55468	21 34 03.35	−13 30 51.9	16.4	T	T08	29P	2017 07 18.96489	21 33 30.35	−13 32 14.4	15.3	N	585
29P	2017 07 17.55970	21 34 03.34	−13 30 50.0	16.4	N	Q68	29P	2017 07 18.96560	21 33 30.35	−13 32 14.2	15.4	N	585
29P	2017 07 17.61134	21 34 02.11	−13 30 53.0	16.5	N	Q68	29P	2017 07 18.96702	21 33 30.31	−13 32 14.2	15.4	N	585
29P	2017 07 17.89336	21 33 55.58	−13 31 10.6	16.3	T	583	29P	2017 07 18.96772	21 33 30.29	−13 32 14.6	15.3	N	585
29P	2017 07 17.90672	21 33 55.31	−13 31 12.2	15.7	T	583	29P	2017 07 18.96843	21 33 30.29	−13 32 14.6	15.3	N	585
29P	2017 07 17.91894	21 33 55.01	−13 31 12.2	15.7	T	583	29P	2017 07 19.08734	21 33 27.45	−13 32 21.1	15.7	N	J22
29P	2017 07 17.92369	21 33 54.86	−13 31 13.3	15.3	N	585	29P	2017 07 19.09123	21 33 27.39	−13 32 21.3	15.7	N	J22
29P	2017 07 17.92462	21 33 54.87	−13 31 13.8	15.3	N	585	29P	2017 07 19.09506	21 33 27.27	−13 32 21.7	15.7	N	J22
29P	2017 07 17.92532	21 33 54.82	−13 31 13.4	15.3	N	585	29P	2017 07 19.11419	21 33 26.92	−13 32 21.7	16.3	N	W96
29P	2017 07 17.92603	21 33 54.83	−13 31 13.6	15.3	N	585	29P	2017 07 19.15887	21 33 25.81	−13 32 24.1	16.3	N	W96
29P	2017 07 17.92675	21 33 54.78	−13 31 13.5	15.3	N	585	29P	2017 07 19.20401	21 33 24.71	−13 32 27.0	16.2	N	W96
29P	2017 07 17.92745	21 33 54.78	−13 31 13.7	15.2	N	585	29P	2017 07 19.59744	21 33 15.25	−13 32 50.9	16.7	N	K E94
29P	2017 07 17.92816	21 33 54.73	−13 31 13.7	15.3	N	585	29P	2017 07 19.63352	21 33 14.42	−13 32 52.2	16.5	N	Q68
29P	2017 07 17.92830	21 33 54.76	−13 31 12.9	16.8	T	583	29P	2017 07 19.66378	21 33 13.58	−13 32 53.7	16.6	N	K E94
29P	2017 07 17.92957	21 33 54.73	−13 31 13.5	15.3	N	585	29P	2017 07 19.66717	21 33 13.58	−13 32 53.8	16.5	N	Q68
29P	2017 07 17.93029	21 33 54.72	−13 31 13.7	15.3	N	585	29P	2017 07 19.72718	21 33 12.03	−13 32 58.2	16.7	N	K E94
29P	2017 07 17.93100	21 33 54.70	−13 31 14.0	15.3	N	585	29P	2017 07 20.17838	21 33 01.33	−13 33 26.2	16.3	N	W96
29P	2017 07 17.93170	21 33 54.68	−13 31 14.2	15.3	N	585	29P	2017 07 20.22279	21 33 00.21	−13 33 28.8	16.3	N	W96
29P	2017 07 17.93241	21 33 54.70	−13 31 14.0	15.2	N	585	29P	2017 07 20.27394	21 32 58.94	−13 33 32.2	16.3	N	W96
29P	2017 07 17.93311	21 33 54.66	−13 31 14.0	15.3	N	585	29P	2017 07 20.33821	21 32 57.37	−13 33 37.6	15.6	N	H45
29P	2017 07 17.93383	21 33 54.64	−13 31 14.2	15.3	N	585	29P	2017 07 20.34118	21 32 57.30	−13 33 37.9	15.5	N	H45
29P	2017 07 17.93454	21 33 54.62	−13 31 14.0	15.3	N	585	29P	2017 07 20.34269	21 32 57.26	−13 33 38.1	15.6	N	H45
29P	2017 07 17.93524	21 33 54.60	−13 31 14.0	15.3	N	585	29P	2017 07 20.35918	21 32 56.86	−13 33 39.2	16.1	N	H47
29P	2017 07 17.93595	21 33 54.60	−13 31 14.2	15.3	N	585	29P	2017 07 20.36758	21 32 56.64	−13 33 39.5	16.3	N	H47
29P	2017 07 17.93666	21 33 54.55	−13 31 14.2	15.3	N	585	29P	2017 07 20.37450	21 32 56.48	−13 33 40.0	16.2	N	H47
29P	2017 07 17.93737	21 33 54.57	−13 31 14.5	15.2	N	585	29P	2017 07 20.38284	21 32 56.25	−13 33 40.6	16.3	N	H47
29P	2017 07 17.93808	21 33 54.58	−13 31 14.2	15.3	N	585	29P	2017 07 20.60384	21 32 50.96	−13 33 52.2	16.5	N	Q68
29P	2017 07 17.94609	21 33 54.37	−13 31 13.7	15.9	T	583	29P	2017 07 20.66347	21 32 49.48	−13 33 55.9	16.5	N	Q68
29P	2017 07 18.03008	21 33 52.41	−13 31 19.2	15.7	N	J22	29P	2017 07 20.91540	21 32 43.40	−13 34 14.5	16.4	N	C10
29P	2017 07 18.03400	21 33 52.30	−13 31 19.3	15.7	N	J22	29P	2017 07 20.96395	21 32 42.18	−13 34 17.6	16.4	N	C10
29P	2017 07 18.03781	21 33 52.22	−13 31 19.5	15.7	N	J22	29P	2017 07 21.01794	21 32 40.86	−13 34 20.8	16.4	N	C10
29P	2017 07 18.10922	21 33 50.61	−13 31 22.1	16.3	N	W96	29P	2017 07 21.02057	21 32 40.79	−13 34 20.4	15.7	N	212
29P	2017 07 18.15210	21 33 49.60	−13 31 25.0	16.2	N	W96	29P	2017 07 21.02488	21 32 40.68	−13 34 20.8	15.6	N	212
29P	2017 07 18.18972	21 33 48.69	−13 31 26.8	16.2	N	W96	29P	2017 07 21.02918	21 32 40.55	−13 34 21.0	15.6	N	212
29P	2017 07 18.95130	21 33 30.70	−13 32 13.6	15.4	N	585	29P	2017 07 21.04308	21 32 40.22	−13 34 22.4	16.6	N	K K02
29P	2017 07 18.95201	21 33 30.67	−13 32 13.5	15.4	N	585	29P	2017 07 21.04817	21 32 40.11	−13 34 22.6	16.7	N	K K02
29P	2017 07 18.95272	21 33 30.64	−13 32 13.6	15.5	N	585	29P	2017 07 21.05283	21 32 39.97	−13 34 22.9	16.6	N	K K02
29P	2017 07 18.95343	21 33 30.65	−13 32 13.7	15.3	N	585	29P	2017 07 21.07130	21 32 39.51	−13 34 24.0	16.4	N	C10
29P	2017 07 18.95414	21 33 30.62	−13 32 13.6	15.3	N	585	29P	2017 07 21.16699	21 32 37.20	−13 34 28.3	16.3	N	W96
29P	2017 07 18.95485	21 33 30.60	−13 32 13.4	15.4	N	585	29P	2017 07 21.17573	21 32 36.92	−13 34 30.0	15.7	N	J22
29P	2017 07 18.95556	21 33 30.60	−13 32 13.5	15.4	N	585	29P	2017 07 21.17765	21 32 36.88	−13 34 30.3	15.7	N	J22
29P	2017 07 18.95627	21 33 30.58	−13 32 14.1	15.3	N	585	29P	2017 07 21.18345	21 32 36.69	−13 34 30.8	15.7	N	J22
29P	2017 07 18.95697	21 33 30.56	−13 32 13.8	15.3	N	585	29P	2017 07 21.21138	21 32 36.10	−13 34 30.8	16.5	N	W96
29P	2017 07 18.95768	21 33 30.53	−13 32 14.2	15.5	N	585	29P	2017 07 21.25652	21 32 34.95	−13 34 33.9	16.3	N	W96

29P	2017 07 21.35565	21 32 32.49	−13 34 41.6	16.4	N	H47
29P	2017 07 21.36266	21 32 32.32	−13 34 42.1	16.3	N	H47
29P	2017 07 21.37024	21 32 32.13	−13 34 42.8	16.4	N	H47
29P	2017 07 21.43309	21 32 30.67	−13 34 44.3	16.5	N	E94
29P	2017 07 21.43554	21 32 30.58	−13 34 44.5	16.6	N	E94
29P	2017 07 21.47108	21 32 29.73	−13 34 45.8	16.5	N	E94
29P	2017 07 21.59979	21 32 26.52	−13 34 55.3	16.5	N	Q68
29P	2017 07 21.64239	21 32 25.43	−13 34 57.9	16.4	N	Q68
29P	2017 07 22.08402	21 32 14.59	−13 35 27.1	16.4	N	W96
29P	2017 07 22.12841	21 32 13.45	−13 35 30.0	16.5	N	W96
29P	2017 07 22.17355	21 32 12.30	−13 35 32.8	16.5	N	W96
29P	2017 07 23.00109	21 31 51.53	−13 36 29.4	16.4	N	K A77
29P	2017 07 23.04845	21 31 50.32	−13 36 32.9	16.3	N	K A77
29P	2017 07 23.12499	21 31 48.35	−13 36 37.3	16.3	N	K A77
29P	2017 07 23.18253	21 31 46.95	−13 36 39.8	16.4	N	W96
29P	2017 07 23.20435	21 31 46.44	−13 36 41.2	16.3	N	W96
29P	2017 07 23.37183	21 31 42.08	−13 36 53.6	16.3	N	H45
29P	2017 07 23.37601	21 31 41.96	−13 36 54.0	16.4	N	H45
29P	2017 07 23.37744	21 31 41.91	−13 36 54.2	16.4	N	H45
29P	2017 07 23.38298	21 31 41.78	−13 36 54.6	16.4	N	H45
29P	2017 07 23.38481	21 31 41.72	−13 36 54.6	16.3	N	H45
29P	2017 07 23.98109	21 31 26.65	−13 37 35.0	15.3	N	B74
29P	2017 07 23.98303	21 31 26.58	−13 37 35.4	16.4	N	K A77
29P	2017 07 23.98892	21 31 26.51	−13 37 36.2	15.3	N	B74
29P	2017 07 23.99676	21 31 26.21	−13 37 36.3	15.3	N	B74
29P	2017 07 24.03015	21 31 25.37	−13 37 38.6	16.5	N	K A77
29P	2017 07 24.06998	21 31 24.30	−13 37 41.4	16.4	N	K A77
29P	2017 07 24.12202	21 31 23.10	−13 37 42.7	16.5	N	W96
29P	2017 07 24.14811	21 31 22.27	−13 37 45.9	15.7	N	J22
29P	2017 07 24.15593	21 31 22.10	−13 37 47.0	15.7	N	J22
29P	2017 07 24.15890	21 31 22.12	−13 37 45.2	16.5	N	W96
29P	2017 07 24.19653	21 31 21.14	−13 37 47.8	16.4	N	W96
29P	2017 07 24.34133	21 31 17.42	−13 37 57.0	16.3	N	K E94
29P	2017 07 24.49147	21 31 13.56	−13 38 07.3	16.2	N	K E94
29P	2017 07 24.49770	21 31 13.40	−13 38 07.4	16.2	N	K E94
29P	2017 07 24.81135	21 31 05.18	−13 38 29.4	16.2	N	¡ Q62
29P	2017 07 24.81852	21 31 04.99	−13 38 30.0	16.1	N	¡ Q62
29P	2017 07 24.97113	21 31 01.22	−13 38 43.5	16.3	N	K A77
29P	2017 07 25.00075	21 31 00.44	−13 38 45.3	16.4	N	K A77
29P	2017 07 25.03476	21 30 59.55	−13 38 47.4	15.7	N	J01
29P	2017 07 25.04191	21 30 59.35	−13 38 47.9	15.7	N	J01
29P	2017 07 25.04905	21 30 59.17	−13 38 48.3	15.7	N	J01
29P	2017 07 25.07253	21 30 58.54	−13 38 50.5	16.4	N	K A77
29P	2017 07 25.12735	21 30 57.11	−13 38 54.2	16.5	N	K A77
29P	2017 07 25.19688	21 30 55.36	−13 38 57.0	16.5	N	W96
29P	2017 07 25.20735	21 30 54.97	−13 38 59.0	15.8	N	J22
29P	2017 07 25.21127	21 30 54.87	−13 38 59.1	15.8	N	J22
29P	2017 07 25.21515	21 30 54.76	−13 38 59.4	15.8	N	J22
29P	2017 07 25.22999	21 30 54.48	−13 38 59.2	16.4	N	W96
29P	2017 07 25.26385	21 30 53.60	−13 39 01.7	16.5	N	W96
29P	2017 07 25.93537	21 30 36.07	−13 39 51.6	16.9	N	K 160
29P	2017 07 25.93878	21 30 35.98	−13 39 52.0	16.9	N	K 160
29P	2017 07 25.94219	21 30 35.86	−13 39 51.9	16.7	N	K 160
29P	2017 07 25.96576	21 30 35.31	−13 39 52.5	16.1	N	C10
29P	2017 07 25.97369	21 30 35.14	−13 39 53.4	15.9	N	Z55
29P	2017 07 25.97575	21 30 35.10	−13 39 52.9	16.0	N	Z55
29P	2017 07 25.97709	21 30 35.05	−13 39 53.4	15.8	N	Z55
29P	2017 07 25.97775	21 30 35.04	−13 39 53.2	15.8	N	Z55
29P	2017 07 25.97841	21 30 35.02	−13 39 53.4	15.8	N	Z55
29P	2017 07 26.01156	21 30 34.12	−13 39 55.4	15.7	N	J22
29P	2017 07 26.01350	21 30 34.09	−13 39 55.8	15.7	N	J22
29P	2017 07 26.01403	21 30 34.04	−13 39 56.2	16.2	N	C10
29P	2017 07 26.01545	21 30 34.03	−13 39 56.1	15.7	N	J22
29P	2017 07 26.06370	21 30 32.67	−13 39 59.5	16.2	N	C10
29P	2017 07 26.12041	21 30 31.33	−13 40 01.7	16.2	N	W96
29P	2017 07 26.15443	21 30 30.42	−13 40 04.0	16.1	N	W96
29P	2017 07 26.18830	21 30 29.49	−13 40 06.8	16.2	N	W96
29P	2017 07 26.38095	21 30 24.49	−13 40 19.2	16.5	N	K E94
29P	2017 07 26.46231	21 30 22.261	−13 40 26.95	17.1	T	F51
29P	2017 07 26.47327	21 30 21.979	−13 40 27.95	16.8	T	F51
29P	2017 07 26.48425	21 30 21.686	−13 40 28.75	16.8	T	F51
29P	2017 07 26.50822	21 30 21.03	−13 40 28.9	16.3	N	K E94
29P	2017 07 26.69342	21 30 16.04	−13 40 42.1	16.2	N	K E94
29P	2017 07 26.96250	21 30 09.13	−13 41 03.9	15.5	N	J01
29P	2017 07 26.98181	21 30 08.59	−13 41 05.1	16.1	N	K A77
29P	2017 07 26.99830	21 30 08.16	−13 41 06.4	15.5	N	J01
29P	2017 07 27.01028	21 30 07.89	−13 41 07.1	15.6	N	J22
29P	2017 07 27.01425	21 30 07.75	−13 41 07.2	15.6	N	J22
29P	2017 07 27.01814	21 30 07.66	−13 41 07.5	15.6	N	J22
29P	2017 07 27.02155	21 30 07.53	−13 41 07.9	16.2	N	K A77
29P	2017 07 27.03412	21 30 07.19	−13 41 09.0	15.6	N	J01
29P	2017 07 27.04678	21 30 06.85	−13 41 10.3	16.2	N	K A77
29P	2017 07 27.08356	21 30 05.87	−13 41 13.0	16.3	N	K A77
29P	2017 07 27.13347	21 30 04.61	−13 41 14.2	16.1	N	W96
29P	2017 07 27.16295	21 30 03.82	−13 41 16.6	16.1	N	W96
29P	2017 07 27.19346	21 30 02.98	−13 41 18.6	16.1	N	W96
29P	2017 07 27.22396	21 30 02.17	−13 41 20.8	16.1	N	W96
29P	2017 07 27.25434	21 30 01.34	−13 41 23.2	16.1	N	W96
29P	2017 07 27.35239	21 29 58.70	−13 41 31.9	15.8	N	H45
29P	2017 07 27.35450	21 29 58.65	−13 41 32.0	15.9	N	H45
29P	2017 07 27.35698	21 29 58.58	−13 41 32.2	15.9	N	H45
29P	2017 07 27.35864	21 29 58.53	−13 41 32.4	15.9	N	H45
29P	2017 07 27.36014	21 29 58.49	−13 41 32.5	15.8	N	H45
29P	2017 07 27.52015	21 29 54.26	−13 41 43.7	16.3	T	T05
29P	2017 07 27.53016	21 29 53.98	−13 41 44.6	16.2	T	T05
29P	2017 07 27.54092	21 29 53.69	−13 41 45.3	16.3	T	T05
29P	2017 07 27.55109	21 29 53.41	−13 41 46.1	16.2	T	T05
29P	2017 07 27.94205	21 29 43.11	−13 42 14.8	15.8	N	B96
29P	2017 07 27.94368	21 29 43.06	−13 42 14.9	15.6	N	B96
29P	2017 07 27.94531	21 29 43.01	−13 42 15.1	15.7	N	B96
29P	2017 07 27.94694	21 29 42.95	−13 42 15.3	15.6	N	B96
29P	2017 07 27.94859	21 29 42.93	−13 42 15.5	15.7	N	B96
29P	2017 07 27.95022	21 29 42.88	−13 42 15.6	15.6	N	B96
29P	2017 07 27.95185	21 29 42.84	−13 42 15.7	15.7	N	B96
29P	2017 07 27.96824	21 29 42.39	−13 42 16.8	15.8	N	A77
29P	2017 07 28.01208	21 29 41.19	−13 42 20.1	15.6	N	C23

29P	2017 07 28.01228	21 29 41.20	−13 42 20.3	15.8	N	A77	29P	2017 07 30.80286	21 28 25.75	−13 45 48.9	15.6	N	193
29P	2017 07 28.02105	21 29 40.96	−13 42 20.6	15.3	N	C23	29P	2017 07 30.80461	21 28 25.69	−13 45 48.9	16.0	N	193
29P	2017 07 28.02407	21 29 40.87	−13 42 21.1	15.9	N	K K02	29P	2017 07 30.80634	21 28 25.63	−13 45 49.0	16.1	N	193
29P	2017 07 28.03004	21 29 40.70	−13 42 21.3	15.4	N	C23	29P	2017 07 30.80808	21 28 25.60	−13 45 49.1	16.0	N	193
29P	2017 07 28.03031	21 29 40.72	−13 42 21.7	15.8	N	K K02	29P	2017 07 30.80983	21 28 25.54	−13 45 49.3	16.0	N	193
29P	2017 07 28.05631	21 29 40.00	−13 42 23.1	15.8	N	A77	29P	2017 07 30.81330	21 28 25.44	−13 45 49.5	16.0	N	193
29P	2017 07 28.10106	21 29 38.76	−13 42 26.3	15.7	N	A77	29P	2017 07 30.81503	21 28 25.39	−13 45 49.6	16.0	N	193
29P	2017 07 28.12490	21 29 38.12	−13 42 28.4	15.6	N	A77	29P	2017 07 30.81678	21 28 25.35	−13 45 49.8	16.0	N	193
29P	2017 07 28.12682	21 29 38.20	−13 42 26.5	15.7	N	W96	29P	2017 07 30.81852	21 28 25.30	−13 45 49.9	16.0	N	193
29P	2017 07 28.14490	21 29 37.69	−13 42 27.7	15.7	N	W96	29P	2017 07 30.82025	21 28 25.25	−13 45 50.1	16.0	N	193
29P	2017 07 28.16370	21 29 37.19	−13 42 29.2	15.8	N	W96	29P	2017 07 30.82200	21 28 25.20	−13 45 50.2	16.0	N	193
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29P	2017 07 28.97682	21 29 15.32	−13 43 31.2	15.7	N	A77	29P	2017 07 30.82547	21 28 25.12	−13 45 50.4	16.0	N	193
29P	2017 07 28.99853	21 29 14.74	−13 43 33.0	15.7	N	A77	29P	2017 07 30.918066	21 28 22.591	−13 45 57.73	15.8	N	5 089
29P	2017 07 29.09611	21 29 12.18	−13 43 38.1	15.7	N	W96	29P	2017 07 30.919614	21 28 22.550	−13 45 58.10	15.9	N	5 089
29P	2017 07 29.13749	21 29 11.04	−13 43 41.3	15.7	N	W96	29P	2017 07 30.921166	21 28 22.505	−13 45 58.21	15.9	N	5 089
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29P	2017 07 29.45985	21 29 02.28	−13 44 07.0	15.7	T	T08	29P	2017 07 30.948086	21 28 21.750	−13 46 00.46	15.8	N	5 089
29P	2017 07 29.46958	21 29 02.00	−13 44 07.8	15.7	T	T08	29P	2017 07 30.949637	21 28 21.698	−13 46 00.64	15.8	N	5 089
29P	2017 07 29.47945	21 29 01.73	−13 44 08.5	15.7	T	T08	29P	2017 07 30.95660	21 28 21.57	−13 46 01.2	15.6	N	A77
29P	2017 07 29.48959	21 29 01.46	−13 44 09.2	15.7	T	T08	29P	2017 07 30.977788	21 28 20.921	−13 46 02.64	16.1	N	5 089
29P	2017 07 29.56337	21 28 59.45	−13 44 12.8	16.6	N	467	29P	2017 07 30.979337	21 28 20.890	−13 46 02.72	16.0	N	5 089
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29P	2017 07 29.56720	21 28 59.38	−13 44 13.2	16.7	N	467	29P	2017 07 31.01909	21 28 19.82	−13 46 06.2	15.5	N	K02
29P	2017 07 29.56799	21 28 59.33	−13 44 13.2	16.1	N	467	29P	2017 07 31.02249	21 28 19.71	−13 46 06.2	15.6	N	K02
29P	2017 07 29.56878	21 28 59.31	−13 44 13.2	16.6	N	467	29P	2017 07 31.02758	21 28 19.56	−13 46 06.6	15.9	N	K02
29P	2017 07 29.57031	21 28 59.26	−13 44 13.4	16.2	N	467	29P	2017 07 31.17068	21 28 15.71	−13 46 15.2	15.7	N	W96
29P	2017 07 29.57111	21 28 59.24	−13 44 13.5	16.1	N	467	29P	2017 07 31.20755	21 28 14.65	−13 46 18.1	15.8	N	W96
29P	2017 07 29.57192	21 28 59.22	−13 44 13.5	16.1	N	467	29P	2017 07 31.24516	21 28 13.58	−13 46 21.0	15.7	N	W96
29P	2017 07 30.04013	21 28 46.62	−13 44 48.6	15.8	N	W96	29P	2017 07 31.48992	21 28 06.95	−13 46 39.6	15.6	T	Q65
29P	2017 07 30.07852	21 28 45.58	−13 44 52.1	15.8	N	W96	29P	2017 07 31.49497	21 28 06.80	−13 46 39.8	15.6	T	Q65
29P	2017 07 30.11839	21 28 44.48	−13 44 55.0	15.7	N	W96	29P	2017 07 31.77878	21 27 58.96	−13 47 03.5	16.0	N	193
29P	2017 07 30.21461	21 28 41.81	−13 45 03.9	16.0	N	KW25	29P	2017 07 31.78052	21 27 58.91	−13 47 03.6	16.0	N	193
29P	2017 07 30.22820	21 28 41.44	−13 45 04.5	16.0	N	KW25	29P	2017 07 31.78227	21 27 58.85	−13 47 03.8	16.0	N	193
29P	2017 07 30.52677	21 28 33.28	−13 45 25.7	16.3	N	467	29P	2017 07 31.78400	21 27 58.81	−13 47 03.9	16.1	N	193
29P	2017 07 30.52803	21 28 33.24	−13 45 25.7	16.4	N	467	29P	2017 07 31.78574	21 27 58.76	−13 47 04.0	15.8	N	193
29P	2017 07 30.52929	21 28 33.21	−13 45 25.9	16.3	N	467	29P	2017 07 31.78749	21 27 58.72	−13 47 04.3	15.7	N	193
29P	2017 07 30.77503	21 28 26.52	−13 45 46.6	15.8	N	193	29P	2017 07 31.78922	21 27 58.67	−13 47 04.4	15.6	N	193
29P	2017 07 30.77677	21 28 26.47	−13 45 46.8	15.7	N	193	29P	2017 07 31.79096	21 27 58.62	−13 47 04.6	15.7	N	193
29P	2017 07 30.78025	21 28 26.37	−13 45 47.0	15.8	N	193	29P	2017 07 31.79271	21 27 58.56	−13 47 04.8	15.6	N	193
29P	2017 07 30.78199	21 28 26.32	−13 45 47.4	15.5	N	193	29P	2017 07 31.79444	21 27 58.50	−13 47 05.0	15.7	N	193
29P	2017 07 30.78373	21 28 26.27	−13 45 47.5	15.7	N	193	29P	2017 07 31.79618	21 27 58.47	−13 47 04.8	16.1	N	193
29P	2017 07 30.78547	21 28 26.25	−13 45 47.7	15.6	N	193	29P	2017 07 31.79792	21 27 58.42	−13 47 05.0	16.1	N	193
29P	2017 07 30.78721	21 28 26.19	−13 45 47.7	15.6	N	193	29P	2017 07 31.79966	21 27 58.37	−13 47 05.1	16.0	N	193
29P	2017 07 30.78895	21 28 26.11	−13 45 48.0	15.5	N	193	29P	2017 07 31.80140	21 27 58.32	−13 47 05.2	16.1	N	193
29P	2017 07 30.79069	21 28 26.08	−13 45 47.8	16.0	N	193	29P	2017 07 31.80314	21 27 58.27	−13 47 05.4	16.1	N	193
29P	2017 07 30.79243	21 28 26.03	−13 45 47.9	15.8	N	193	29P	2017 07 31.80488	21 27 58.22	−13 47 05.5	16.0	N	193
29P	2017 07 30.79417	21 28 25.97	−13 45 48.1	15.8	N	193	29P	2017 07 31.80662	21 27 58.17	−13 47 05.9	15.8	N	193
29P	2017 07 30.79590	21 28 25.94	−13 45 48.3	16.0	N	193	29P	2017 07 31.80836	21 27 58.12	−13 47 05.8	16.1	N	193
29P	2017 07 30.79765	21 28 25.88	−13 45 48.3	16.0	N	193	29P	2017 07 31.81010	21 27 58.08	−13 47 05.9	16.1	N	193
29P	2017 07 30.79939	21 28 25.83	−13 45 48.5	15.8	N	193	29P	2017 07 31.81184	21 27 58.02	−13 47 06.0	16.1	N	193
29P	2017 07 30.80112	21 28 25.79	−13 45 48.8	15.6	N	193	29P	2017 07 31.81358	21 27 57.97	−13 47 06.2	16.1	N	193

29P	2017 07 31.81532	21 27 57.92	−13 47 06.3	16.1	N	193	29P	2017 08 01.81659	21 27 30.25	−13 48 24.1	15.9	N	193
29P	2017 07 31.81706	21 27 57.88	−13 47 06.4	16.0	N	193	29P	2017 08 01.81997	21 27 30.16	−13 48 24.3	15.9	N	193
29P	2017 07 31.81880	21 27 57.83	−13 47 06.6	16.0	N	193	29P	2017 08 01.82333	21 27 30.06	−13 48 24.5	15.9	N	193
29P	2017 07 31.82053	21 27 57.78	−13 47 06.7	16.1	N	193	29P	2017 08 01.82671	21 27 29.96	−13 48 24.8	15.9	N	193
29P	2017 07 31.82228	21 27 57.74	−13 47 06.9	16.0	N	193	29P	2017 08 01.83009	21 27 29.86	−13 48 25.1	15.9	N	193
29P	2017 07 31.82402	21 27 57.68	−13 47 07.0	16.1	N	193	29P	2017 08 02.01390	21 27 24.87	−13 48 37.9	15.8	N	W96
29P	2017 07 31.82575	21 27 57.63	−13 47 07.2	16.1	N	193	29P	2017 08 02.06402	21 27 23.48	−13 48 41.9	15.7	N	W96
29P	2017 07 31.82750	21 27 57.56	−13 47 07.3	15.9	N	193	29P	2017 08 02.11549	21 27 22.04	−13 48 46.3	15.7	N	W96
29P	2017 07 31.82924	21 27 57.53	−13 47 07.4	16.1	N	193	29P	2017 08 02.12923	21 27 21.64	−13 48 47.1	15.8	N	W96
29P	2017 07 31.83098	21 27 57.49	−13 47 07.6	16.0	N	193	29P	2017 08 02.15286	21 27 20.98	−13 48 48.9	15.7	N	W96
29P	2017 07 31.83272	21 27 57.44	−13 47 07.6	16.1	N	193	29P	2017 08 02.19181	21 27 19.88	−13 48 52.2	15.7	N	W96
29P	2017 07 31.83446	21 27 57.39	−13 47 07.8	16.0	N	193	29P	2017 08 02.47133	21 27 12.05	−13 49 15.3	15.7	T	T08
29P	2017 07 31.83619	21 27 57.34	−13 47 07.9	16.0	N	193	29P	2017 08 02.48048	21 27 11.78	−13 49 16.0	15.7	T	T08
29P	2017 07 31.83794	21 27 57.29	−13 47 08.0	16.1	N	193	29P	2017 08 02.48939	21 27 11.52	−13 49 16.7	15.7	T	T08
29P	2017 07 31.83968	21 27 57.24	−13 47 08.2	16.0	N	193	29P	2017 08 02.49859	21 27 11.26	−13 49 17.5	15.7	T	T08
29P	2017 07 31.84141	21 27 57.19	−13 47 08.2	16.1	N	193	29P	2017 08 02.93355	21 26 59.21	−13 49 52.3	15.2	N	J38
29P	2017 07 31.84316	21 27 57.14	−13 47 08.5	16.1	N	193	29P	2017 08 02.93641	21 26 59.08	−13 49 52.6	15.1	N	J38
29P	2017 07 31.84490	21 27 57.09	−13 47 08.5	16.1	N	193	29P	2017 08 02.93926	21 26 58.88	−13 49 52.0	15.1	N	J38
29P	2017 07 31.84663	21 27 57.04	−13 47 08.7	16.0	N	193	29P	2017 08 02.94574	21 26 58.88	−13 49 53.0	15.8	N	K A77
29P	2017 07 31.95230	21 27 54.19	−13 47 17.0	15.8	N	K 160	29P	2017 08 02.95541	21 26 58.58	−13 49 53.0	15.4	N	Z55
29P	2017 07 31.95436	21 27 54.16	−13 47 17.6	15.8	N	A77	29P	2017 08 02.95706	21 26 58.55	−13 49 53.8	15.4	N	Z55
29P	2017 07 31.95537	21 27 54.10	−13 47 17.3	15.7	N	K 160	29P	2017 08 02.95834	21 26 58.53	−13 49 54.0	15.3	N	Z55
29P	2017 07 31.95566	21 27 54.07	−13 47 17.5	16.1	N	C47	29P	2017 08 02.95949	21 26 58.47	−13 49 53.0	15.4	N	Z55
29P	2017 07 31.95843	21 27 54.01	−13 47 17.5	15.8	N	K 160	29P	2017 08 02.98985	21 26 57.60	−13 49 56.4	15.9	N	K A77
29P	2017 07 31.96267	21 27 53.87	−13 47 18.0	16.3	N	C47	29P	2017 08 03.02968	21 26 56.49	−13 49 59.6	15.8	N	K A77
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29P	2017 08 01.001199	21 27 52.778	−13 47 21.16	15.9	N	5 089	29P	2017 08 03.21639	21 26 51.28	−13 50 12.6	15.8	N	W96
29P	2017 08 01.002751	21 27 52.726	−13 47 21.19	15.8	N	5 089	29P	2017 08 03.94868	21 26 30.80	−13 51 12.6	15.8	N	K A77
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29P	2017 08 01.05927	21 27 51.31	−13 47 23.4	15.8	N	W96	29P	2017 08 04.03334	21 26 28.39	−13 51 19.7	15.9	N	K A77
29P	2017 08 01.10367	21 27 50.05	−13 47 27.1	15.8	N	W96	29P	2017 08 04.07750	21 26 27.11	−13 51 22.6	15.8	N	K A77
29P	2017 08 01.14880	21 27 48.79	−13 47 30.8	15.7	N	W96	29P	2017 08 04.12402	21 26 25.76	−13 51 26.0	15.7	N	9 G40
29P	2017 08 01.17977	21 27 47.94	−13 47 35.1	14.7	N	KW33	29P	2017 08 04.13092	21 26 25.57	−13 51 26.5	15.8	N	9 G40
29P	2017 08 01.19178	21 27 47.59	−13 47 36.1	14.7	N	KW33	29P	2017 08 04.36098	21 26 19.10	−13 51 45.0	15.9	N	H47
29P	2017 08 01.20387	21 27 47.24	−13 47 36.9	14.7	N	KW33	29P	2017 08 04.36737	21 26 18.93	−13 51 45.6	15.8	N	H47
29P	2017 08 01.48374	21 27 39.53	−13 47 56.6	15.6	T	Q65	29P	2017 08 04.37446	21 26 18.72	−13 51 46.1	15.9	N	H47
29P	2017 08 01.48654	21 27 39.43	−13 47 56.1	15.5	T	Q65	29P	2017 08 04.38362	21 26 18.46	−13 51 46.8	15.9	N	H47
29P	2017 08 01.52969	21 27 38.24	−13 47 59.9	15.5	T	Q65	29P	2017 08 04.48359	21 26 15.69	−13 51 54.5	16.1	T	T05
29P	2017 08 01.58612	21 27 36.63	−13 48 04.3	15.6	T	Q65	29P	2017 08 04.49384	21 26 15.40	−13 51 55.4	16.0	T	T05
29P	2017 08 01.76593	21 27 31.68	−13 48 20.1	15.9	N	193	29P	2017 08 04.50305	21 26 15.13	−13 51 56.0	16.1	T	T05
29P	2017 08 01.76931	21 27 31.58	−13 48 20.3	15.9	N	193	29P	2017 08 04.51291	21 26 14.85	−13 51 56.9	16.0	T	T05
29P	2017 08 01.77269	21 27 31.49	−13 48 20.6	15.9	N	193	29P	2017 08 04.93231	21 26 03.07	−13 52 31.1	15.7	N	K A77
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29P	2017 08 01.77943	21 27 31.30	−13 48 21.2	15.9	N	193	29P	2017 08 04.99204	21 26 01.40	−13 52 35.7	15.4	N	J01
29P	2017 08 01.78281	21 27 31.20	−13 48 21.4	15.8	N	193	29P	2017 08 04.99920	21 26 01.18	−13 52 36.0	15.4	N	J01
29P	2017 08 01.78619	21 27 31.11	−13 48 22.2	15.5	N	193	29P	2017 08 05.00638	21 26 01.02	−13 52 36.9	15.4	N	J01
29P	2017 08 01.78956	21 27 31.01	−13 48 21.9	15.7	N	193	29P	2017 08 05.02342	21 26 00.54	−13 52 38.3	15.8	N	K A77
29P	2017 08 01.79294	21 27 30.90	−13 48 22.6	15.5	N	193	29P	2017 08 05.06742	21 25 59.23	−13 52 41.7	15.8	N	K A77
29P	2017 08 01.79632	21 27 30.81	−13 48 22.4	15.4	N	193	29P	2017 08 05.11141	21 25 57.99	−13 52 45.4	15.8	N	K A77
29P	2017 08 01.80983	21 27 30.45	−13 48 23.4	15.9	N	193	29P	2017 08 05.13812	21 25 57.21	−13 52 47.2	16.0	N	K A77
29P	2017 08 01.81321	21 27 30.34	−13 48 23.8	15.9	N	193	29P	2017 08 05.22151	21 25 54.97	−13 52 53.4	16.1	N	KW25

29P	2017 08 05.24093	21 25 54.39	−13 52 55.0	16.1	N	KW25
29P	2017 08 05.40306	21 25 49.84	−13 53 06.2	16.2	N	K E94
29P	2017 08 05.43280	21 25 48.97	−13 53 08.3	16.2	N	K E94
29P	2017 08 05.47346	21 25 47.79	−13 53 11.4	16.2	N	K E94
29P	2017 08 05.50981	21 25 46.77	−13 53 14.8	16.1	N	K E94
29P	2017 08 05.55421	21 25 45.48	−13 53 18.4	16.2	N	K E94
29P	2017 08 05.61131	21 25 43.84	−13 53 22.7	16.2	N	K E94
29P	2017 08 05.62675	21 25 43.37	−13 53 24.7	16.2	N	K E94
29P	2017 08 05.66721	21 25 42.24	−13 53 27.6	16.2	N	K E94
29P	2017 08 05.70832	21 25 41.04	−13 53 30.5	16.2	N	K E94
29P	2017 08 05.94632	21 25 34.47	−13 53 52.5	15.9	N	B96
29P	2017 08 05.94795	21 25 34.42	−13 53 52.8	15.5	N	B96
29P	2017 08 05.94958	21 25 34.34	−13 53 52.9	15.7	N	B96
29P	2017 08 05.95122	21 25 34.32	−13 53 53.0	15.6	N	B96
29P	2017 08 05.95285	21 25 34.29	−13 53 53.1	15.6	N	B96
29P	2017 08 05.95448	21 25 34.21	−13 53 53.2	15.8	N	B96
29P	2017 08 05.95611	21 25 34.17	−13 53 53.3	15.7	N	B96
29P	2017 08 05.95775	21 25 34.15	−13 53 53.4	15.7	N	B96
29P	2017 08 06.13530	21 25 29.17	−13 54 05.7	15.9	N	W96
29P	2017 08 06.15275	21 25 28.69	−13 54 07.1	16.0	N	W96
29P	2017 08 06.17524	21 25 27.99	−13 54 09.3	15.9	N	W96
29P	2017 08 06.93829	21 25 06.35	−13 55 12.4	16.1	N	K A77
29P	2017 08 06.98229	21 25 05.14	−13 55 16.5	15.7	N	K A77
29P	2017 08 07.02923	21 25 03.75	−13 55 20.6	15.9	N	K A77
29P	2017 08 07.07322	21 25 02.47	−13 55 23.7	15.7	N	K A77
29P	2017 08 07.11721	21 25 01.20	−13 55 26.8	15.6	N	K A77
29P	2017 08 07.13959	21 25 00.53	−13 55 29.0	15.8	N	K A77
29P	2017 08 08.92445	21 24 09.88	−13 57 54.2	16.4	N	K A77
29P	2017 08 08.96854	21 24 08.60	−13 57 59.0	15.8	N	K A77
29P	2017 08 09.01256	21 24 07.28	−13 58 01.3	16.0	N	K A77
29P	2017 08 09.05658	21 24 06.02	−13 58 04.9	15.9	N	K A77
29P	2017 08 09.10056	21 24 04.68	−13 58 08.4	16.1	N	K A77
29P	2017 08 10.04189	21 23 38.01	−13 59 23.4	16.1	N	W96
29P	2017 08 10.10816	21 23 35.97	−13 59 30.1	16.3	N	Z21
29P	2017 08 10.11835	21 23 35.65	−13 59 30.8	15.8	N	Z21
29P	2017 08 10.12858	21 23 35.36	−13 59 31.8	15.8	N	Z21
29P	2017 08 10.13810	21 23 35.21	−13 59 31.7	15.9	N	W96
29P	2017 08 10.18291	21 23 33.87	−13 59 35.1	16.0	N	W96
29P	2017 08 11.05796	21 23 08.95	−14 00 46.8	16.0	N	W96
29P	2017 08 11.11220	21 23 07.37	−14 00 51.3	16.1	N	W96
29P	2017 08 11.17226	21 23 05.61	−14 00 56.3	16.0	N	W96
29P	2017 08 11.44566	21 22 57.75	−14 01 17.8	16.4	N	K E94
29P	2017 08 11.45887	21 22 57.39	−14 01 18.9	16.4	N	K E94
29P	2017 08 11.47197	21 22 57.02	−14 01 20.1	16.5	N	K E94
29P	2017 08 11.47660	21 22 56.87	−14 01 22.8	16.1	T	T08
29P	2017 08 11.48507	21 22 56.65	−14 01 21.3	16.4	N	K E94
29P	2017 08 11.48545	21 22 56.61	−14 01 23.7	15.9	T	T08
29P	2017 08 11.49429	21 22 56.38	−14 01 24.3	16.0	T	T08
29P	2017 08 11.49921	21 22 56.20	−14 01 22.5	16.4	N	K E94
29P	2017 08 11.50318	21 22 56.09	−14 01 24.7	16.1	T	T08
29P	2017 08 11.51723	21 22 55.70	−14 01 23.7	16.4	N	K E94
29P	2017 08 11.56974	21 22 54.14	−14 01 27.6	16.4	N	K E94
29P	2017 08 11.58291	21 22 53.81	−14 01 29.4	16.5	N	K E94
29P	2017 08 11.59622	21 22 53.41	−14 01 30.3	16.4	N	K E94
29P	2017 08 11.60932	21 22 53.01	−14 01 31.6	16.4	N	K E94
29P	2017 08 11.62266	21 22 52.63	−14 01 32.2	16.4	N	K E94
29P	2017 08 11.67554	21 22 51.09	−14 01 36.7	16.5	N	K E94
29P	2017 08 11.68869	21 22 50.78	−14 01 39.6	16.5	N	K E94
29P	2017 08 11.70196	21 22 50.38	−14 01 39.7	16.5	N	K E94
29P	2017 08 11.71522	21 22 50.09	−14 01 40.7	16.4	N	K E94
29P	2017 08 12.06667	21 22 40.12	−14 02 09.7	16.0	N	W96
29P	2017 08 12.12167	21 22 38.51	−14 02 14.5	16.2	N	W96
29P	2017 08 12.18196	21 22 36.73	−14 02 19.3	16.1	N	W96
29P	2017 08 12.49386	21 22 27.78	−14 02 43.8	16.4	N	K E94
29P	2017 08 12.58728	21 22 25.12	−14 02 51.4	16.5	N	K E94
29P	2017 08 12.60040	21 22 24.72	−14 02 53.4	16.5	N	K E94
29P	2017 08 12.62670	21 22 23.92	−14 02 56.2	16.5	N	K E94
29P	2017 08 12.63990	21 22 23.57	−14 02 56.3	16.4	N	K E94
29P	2017 08 13.00563	21 22 13.25	−14 03 27.2	17.0	T	Y00
29P	2017 08 13.01997	21 22 12.87	−14 03 28.5	16.8	T	Y00
29P	2017 08 13.03132	21 22 12.55	−14 03 29.5	16.8	T	Y00
29P	2017 08 13.05592	21 22 11.86	−14 03 31.2	16.1	N	W96
29P	2017 08 13.11110	21 22 10.24	−14 03 35.5	16.1	N	W96
29P	2017 08 13.16376	21 22 08.72	−14 03 39.5	16.1	N	W96
29P	2017 08 13.47275	21 21 59.81	−14 04 06.3	16.0	T	T05
29P	2017 08 13.48171	21 21 59.55	−14 04 07.0	16.0	T	T05
29P	2017 08 13.49068	21 21 59.29	−14 04 08.0	16.0	T	T05
29P	2017 08 13.49981	21 21 59.02	−14 04 08.5	16.0	T	T05
29P	2017 08 13.91871	21 21 47.15	−14 04 43.5	16.1	N	C10
29P	2017 08 13.95158	21 21 46.20	−14 04 46.3	16.2	N	C10
29P	2017 08 13.97103	21 21 45.66	−14 04 47.4	15.7	N	J22
29P	2017 08 13.97689	21 21 45.49	−14 04 47.8	15.7	N	J22
29P	2017 08 13.97883	21 21 45.42	−14 04 47.9	15.7	N	J22
29P	2017 08 13.98590	21 21 45.21	−14 04 48.9	16.1	N	C10
29P	2017 08 14.07634	21 21 42.70	−14 04 54.3	16.2	N	W96
29P	2017 08 14.10492	21 21 41.88	−14 04 56.8	16.3	N	W96
29P	2017 08 14.17827	21 21 39.72	−14 05 03.0	16.2	N	W96
29P	2017 08 14.68753	21 21 25.13	−14 05 43.7	15.8	N	Q59
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29P	2017 08 14.71043	21 21 24.44	−14 05 45.6	16.0	N	Q59
29P	2017 08 14.87998	21 21 19.74	−14 06 02.0	15.8	N	C23
29P	2017 08 14.88431	21 21 19.61	−14 06 02.5	15.8	N	C23
29P	2017 08 14.88719	21 21 19.53	−14 06 02.4	15.9	N	C23
29P	2017 08 14.90593	21 21 19.01	−14 06 04.4	16.1	N	A77
29P	2017 08 14.94277	21 21 17.94	−14 06 07.5	15.5	N	K A71
29P	2017 08 14.95147	21 21 17.67	−14 06 08.2	16.4	N	K A71
29P	2017 08 14.95934	21 21 17.47	−14 06 09.2	16.1	N	A77
29P	2017 08 15.00339	21 21 16.25	−14 06 12.3	16.1	N	A77
29P	2017 08 15.04737	21 21 14.91	−14 06 15.8	16.1	N	A77
29P	2017 08 15.09955	21 21 13.38	−14 06 19.7	15.7	N	J22
29P	2017 08 15.10146	21 21 13.32	−14 06 19.3	16.1	N	A77
29P	2017 08 15.10350	21 21 13.27	−14 06 20.0	15.7	N	J22
29P	2017 08 15.10735	21 21 13.16	−14 06 20.3	15.7	N	J22
29P	2017 08 15.29063	21 21 08.11	−14 06 33.8	16.4	N	K E94
29P	2017 08 15.41013	21 21 04.607	−14 06 44.78	16.6	T	F51
29P	2017 08 15.42185	21 21 04.263	−14 06 45.68	16.6	T	F51

29P	2017 08 15.43358	21 21 03.922	−14 06 46.68	16.6	T		F51
29P	2017 08 15.44530	21 21 03.577	−14 06 47.59	16.5	T		F51
29P	2017 08 15.46898	21 21 02.90	−14 06 50.3	16.0	T		T08
29P	2017 08 15.47785	21 21 02.65	−14 06 50.9	15.9	T		T08
29P	2017 08 15.48669	21 21 02.38	−14 06 51.7	15.8	T		T08
29P	2017 08 15.49555	21 21 02.13	−14 06 52.3	15.8	T		T08
29P	2017 08 15.51242	21 21 01.65	−14 06 51.5	16.5	N	K	E94
29P	2017 08 15.52559	21 21 01.26	−14 06 52.5	16.4	N	K	E94
29P	2017 08 15.53868	21 21 00.85	−14 06 53.4	16.4	N	K	E94
29P	2017 08 15.55179	21 21 00.53	−14 06 54.5	16.4	N	K	E94
29P	2017 08 15.56499	21 21 00.16	−14 06 55.5	16.5	N	K	E94
29P	2017 08 15.57809	21 20 59.74	−14 06 56.7	16.4	N	K	E94
29P	2017 08 15.59118	21 20 59.38	−14 06 57.5	16.4	N	K	E94
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29P	2017 08 15.61571	21 20 58.73	−14 07 00.0	16.0	N		Q58
29P	2017 08 15.61748	21 20 58.57	−14 07 00.0	16.4	N	K	E94
29P	2017 08 15.62591	21 20 58.42	−14 07 00.6	15.9	N		Q58
29P	2017 08 15.63153	21 20 58.16	−14 07 00.7	16.3	N	K	E94
29P	2017 08 15.63867	21 20 58.03	−14 07 01.8	15.9	N		Q58
29P	2017 08 15.99730	21 20 47.94	−14 07 32.7	16.2	N		K02
29P	2017 08 16.00410	21 20 47.66	−14 07 33.9	16.4	N		K02
29P	2017 08 16.01175	21 20 47.45	−14 07 34.4	16.5	N		K02
29P	2017 08 16.05589	21 20 46.33	−14 07 36.1	16.2	N		W96
29P	2017 08 16.10747	21 20 44.85	−14 07 41.1	16.2	N		W96
29P	2017 08 16.16454	21 20 43.16	−14 07 45.3	16.2	N		W96
29P	2017 08 16.29069	21 20 39.60	−14 07 54.6	16.6	N	K	E94
29P	2017 08 16.59193	21 20 30.94	−14 08 19.3	16.6	N	K	E94
29P	2017 08 16.60872	21 20 30.43	−14 08 20.6	16.6	N	K	E94
29P	2017 08 16.62609	21 20 29.86	−14 08 22.2	16.6	N	K	E94
29P	2017 08 16.63607	21 20 29.72	−14 08 23.0	16.5	N		Q63
29P	2017 08 16.64085	21 20 29.58	−14 08 23.3	16.5	N		Q63
29P	2017 08 16.64625	21 20 29.52	−14 08 23.0	17.6	N	K	E94
29P	2017 08 16.64687	21 20 29.42	−14 08 23.6	16.4	N		Q63
29P	2017 08 16.87214	21 20 23.14	−14 08 45.2	15.6	N		C23
29P	2017 08 16.87358	21 20 23.07	−14 08 44.7	15.5	N		C23
29P	2017 08 16.87935	21 20 22.92	−14 08 44.9	15.8	N		C23
29P	2017 08 16.89839	21 20 22.35	−14 08 46.3	16.1	N	K	A77
29P	2017 08 16.90337	21 20 22.27	−14 08 46.8	15.6	N		Z55
29P	2017 08 16.90554	21 20 22.19	−14 08 47.2	15.7	N		Z55
29P	2017 08 16.90632	21 20 22.14	−14 08 47.2	15.6	N		Z55
29P	2017 08 16.90836	21 20 22.13	−14 08 47.3	15.8	N		Z55
29P	2017 08 16.92213	21 20 21.63	−14 08 49.7	15.7	N		C86
29P	2017 08 16.92655	21 20 21.57	−14 08 49.9	15.6	N		C86
29P	2017 08 16.93097	21 20 21.43	−14 08 49.7	15.7	N		C86
29P	2017 08 16.94251	21 20 21.10	−14 08 50.1	16.6	N	K	A77
29P	2017 08 16.98662	21 20 19.84	−14 08 54.2	16.2	N	K	A77
29P	2017 08 17.02985	21 20 18.57	−14 08 57.5	15.8	N		J22
29P	2017 08 17.03044	21 20 18.57	−14 08 57.8	16.2	N	K	A77
29P	2017 08 17.03574	21 20 18.42	−14 08 57.5	15.8	N		J22
29P	2017 08 17.03767	21 20 18.39	−14 08 58.1	15.8	N		J22
29P	2017 08 17.11546	21 20 16.14	−14 09 04.6	16.1	N	K	A77
29P	2017 08 17.46002	21 20 06.42	−14 09 32.1	16.8	T		T05
29P	2017 08 17.47008	21 20 06.12	−14 09 33.0	16.8	T		T05
29P	2017 08 17.47958	21 20 05.86	−14 09 33.9	16.7	T		T05
29P	2017 08 17.48989	21 20 05.54	−14 09 34.5	16.8	T		T05
29P	2017 08 17.89359	21 19 54.25	−14 10 08.1	16.0	N	K	A77
29P	2017 08 17.93775	21 19 52.98	−14 10 11.4	16.2	N	K	A77
29P	2017 08 17.98188	21 19 51.70	−14 10 14.7	16.3	N	K	A77
29P	2017 08 18.02595	21 19 50.44	−14 10 18.2	16.2	N	K	A77
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29P	2017 08 18.13753	21 19 47.35	−14 10 25.6	16.2	N		W96
29P	2017 08 18.15936	21 19 46.71	−14 10 26.9	16.2	N		W96
29P	2017 08 18.18193	21 19 46.04	−14 10 28.9	16.2	N		W96
29P	2017 08 18.26801	21 19 43.62	−14 10 35.7	16.2	N		W87
29P	2017 08 18.27279	21 19 43.48	−14 10 36.1	16.3	N		W87
29P	2017 08 18.27876	21 19 43.31	−14 10 36.6	16.2	N		W87
29P	2017 08 18.33195	21 19 41.86	−14 10 40.6	16.7	N	K	E94
29P	2017 08 18.44214	21 19 38.70	−14 10 51.9	16.2	T		T08
29P	2017 08 18.45095	21 19 38.46	−14 10 52.4	16.2	T		T08
29P	2017 08 18.45977	21 19 38.20	−14 10 53.0	16.2	T		T08
29P	2017 08 18.46550	21 19 38.03	−14 10 53.6	16.1	T		T08
29P	2017 08 18.54376	21 19 35.74	−14 10 56.6	16.5	N	K	E94
29P	2017 08 18.55683	21 19 35.43	−14 10 58.4	16.5	N	K	E94
29P	2017 08 18.57007	21 19 35.04	−14 10 59.6	16.7	N	K	E94
29P	2017 08 18.58328	21 19 34.64	−14 11 00.4	15.7	N	K	E94
29P	2017 08 18.59638	21 19 34.27	−14 11 01.8	16.7	N	K	E94
29P	2017 08 18.89058	21 19 26.16	−14 11 27.7	16.0	N		C23
29P	2017 08 18.89583	21 19 25.96	−14 11 28.2	15.7	N		C23
29P	2017 08 18.90107	21 19 25.87	−14 11 28.4	15.8	N		C23
29P	2017 08 18.99912	21 19 23.05	−14 11 36.3	15.8	N		J01
29P	2017 08 19.00272	21 19 22.98	−14 11 36.4	15.8	N		J01
29P	2017 08 19.01016	21 19 22.83	−14 11 35.3	16.2	N		W96
29P	2017 08 19.01706	21 19 22.51	−14 11 38.0	15.8	N		J01
29P	2017 08 19.06105	21 19 21.39	−14 11 39.5	16.3	N		W96
29P	2017 08 19.09152	21 19 20.39	−14 11 43.1	15.7	N		J22
29P	2017 08 19.09753	21 19 20.21	−14 11 43.8	15.7	N		J22
29P	2017 08 19.09948	21 19 20.18	−14 11 44.2	15.7	N		J22
29P	2017 08 19.16564	21 19 18.39	−14 11 47.9	16.3	N		W96
29P	2017 08 19.99612	21 18 55.23	−14 12 54.2	16.3	N		W96
29P	2017 08 20.04645	21 18 53.82	−14 12 58.1	16.2	N		W96
29P	2017 08 20.09634	21 18 52.37	−14 13 02.3	16.2	N		W96
29P	2017 08 20.15001	21 18 50.86	−14 13 06.9	16.2	N		W96
29P	2017 08 20.16241	21 18 50.43	−14 13 08.7	15.5	N		J22
29P	2017 08 20.16821	21 18 50.23	−14 13 10.3	15.5	N		J22
29P	2017 08 20.92432	21 18 29.30	−14 14 10.6	16.4	N		A77
29P	2017 08 20.94486	21 18 28.68	−14 14 11.5				107
29P	2017 08 20.95228	21 18 28.52	−14 14 11.9	16.5	N		K97
29P	2017 08 20.95414	21 18 28.44	−14 14 12.7	16.2	N		A77
29P	2017 08 20.95779	21 18 28.32	−14 14 12.6				107
29P	2017 08 20.96345	21 18 28.16	−14 14 13.2	16.0	N	K	K25
29P	2017 08 20.97137	21 18 27.98	−14 14 13.5	16.7	N		K97
29P	2017 08 20.97215	21 18 27.90	−14 14 13.8				107
29P	2017 08 20.97259	21 18 27.92	−14 14 13.3	16.0	N	K	K25
29P	2017 08 20.97579	21 18 27.84	−14 14 14.2	16.2	N		A77
29P	2017 08 20.98165	21 18 27.69	−14 14 14.3	16.7	N		K97
29P	2017 08 20.98650	21 18 27.54	−14 14 15.1				107

29P	2017 08 21.00466	21 18 27.02	−14 14 16.2	16.2	N		A77
29P	2017 08 21.65264	21 18 09.11	−14 15 08.3	15.1	T		D29
29P	2017 08 21.66679	21 18 08.71	−14 15 10.2	14.7	T		D29
29P	2017 08 21.68093	21 18 08.32	−14 15 11.7	14.4	T		D29
29P	2017 08 21.89269	21 18 02.47	−14 15 26.7	16.4	N	K	A77
29P	2017 08 21.90906	21 18 02.03	−14 15 27.6	16.2	N		B74
29P	2017 08 21.91971	21 18 01.73	−14 15 28.4	16.2	N		B74
29P	2017 08 21.93241	21 18 01.37	−14 15 29.7	16.3	N	K	A77
29P	2017 08 21.93434	21 18 01.31	−14 15 29.6	16.3	N		B74
29P	2017 08 21.97642	21 18 00.15	−14 15 33.5	16.5	N	K	A77
29P	2017 08 21.97696	21 18 00.10	−14 15 32.7	16.1	N	K	K25
29P	2017 08 21.98650	21 17 59.82	−14 15 33.2	16.1	N	K	K25
29P	2017 08 21.99095	21 17 59.76	−14 15 33.7	15.8	N		213
29P	2017 08 22.00237	21 17 59.36	−14 15 34.4	15.8	N		213
29P	2017 08 22.02141	21 17 58.88	−14 15 36.0	15.9	N		J22
29P	2017 08 22.02529	21 17 58.77	−14 15 36.2	15.9	N		J22
29P	2017 08 22.02914	21 17 58.67	−14 15 36.8	15.9	N		J22
29P	2017 08 22.33132	21 17 50.28	−14 16 00.6	16.1	N		H47
29P	2017 08 22.33584	21 17 50.18	−14 16 01.2	15.9	N		H47
29P	2017 08 22.33940	21 17 50.07	−14 16 01.2	16.2	N		H47
29P	2017 08 22.34391	21 17 49.95	−14 16 01.3	16.4	N		H47
29P	2017 08 22.41551	21 17 48.04	−14 16 07.7	16.3	T		T08
29P	2017 08 22.42433	21 17 47.79	−14 16 08.1	16.2	T		T08
29P	2017 08 22.43317	21 17 47.55	−14 16 08.9	16.3	T		T08
29P	2017 08 22.44203	21 17 47.29	−14 16 09.6	16.3	T		T08
29P	2017 08 22.88383	21 17 35.25	−14 16 44.0	16.3	N	K	A77
29P	2017 08 22.89446	21 17 34.93	−14 16 44.5	15.7	N		C35
29P	2017 08 22.89752	21 17 34.84	−14 16 44.4	15.7	N		C35
29P	2017 08 22.90359	21 17 34.67	−14 16 45.4	15.8	N		C35
29P	2017 08 22.97981	21 17 32.55	−14 16 51.3	16.4	N	K	A77
29P	2017 08 23.06962	21 17 30.05	−14 16 58.1	16.3	N	K	A77
29P	2017 08 23.29797	21 17 23.92	−14 17 13.0	16.4	N	K	E94
29P	2017 08 23.32116	21 17 23.15	−14 17 17.2	16.0	N		H47
29P	2017 08 23.33029	21 17 22.91	−14 17 17.8	16.1	N		H47
29P	2017 08 23.33877	21 17 22.69	−14 17 18.6	16.2	N		H47
29P	2017 08 23.43390	21 17 20.13	−14 17 26.6	15.9	T		T08
29P	2017 08 23.44268	21 17 19.88	−14 17 27.1	16.1	T		T08
29P	2017 08 23.44633	21 17 19.81	−14 17 27.2	15.6	T		T08
29P	2017 08 23.45153	21 17 19.63	−14 17 27.7	15.9	T		T08
29P	2017 08 23.45517	21 17 19.52	−14 17 27.6	16.0	T		T08
29P	2017 08 23.46036	21 17 19.38	−14 17 28.3	16.1	T		T08
29P	2017 08 23.47694	21 17 18.94	−14 17 27.4	17.3	N	K	E94
29P	2017 08 23.55482	21 17 16.75	−14 17 33.3	16.5	N	K	E94
29P	2017 08 23.89500	21 17 07.59	−14 18 01.5	14.0	N		A77
29P	2017 08 23.91963	21 17 06.91	−14 18 03.4	14.0	N		A77
29P	2017 08 23.93881	21 17 06.39	−14 18 05.0	14.0	N		A77
29P	2017 08 23.96288	21 17 05.71	−14 18 07.0	14.0	N		A77
29P	2017 08 23.96549	21 17 05.67	−14 18 06.9	13.7	N		J22
29P	2017 08 23.96941	21 17 05.56	−14 18 07.2	13.7	N		J22
29P	2017 08 23.97309	21 17 05.54	−14 18 05.4	14.0	N		W96
29P	2017 08 23.97326	21 17 05.46	−14 18 07.5	13.7	N		J22
29P	2017 08 24.00497	21 17 04.67	−14 18 08.0	14.0	N		W96
29P	2017 08 24.04128	21 17 03.66	−14 18 10.9	14.0	N		W96
29P	2017 08 24.08472	21 17 02.45	−14 18 14.3	14.0	N		W96
29P	2017 08 24.57934	21 16 48.98	−14 18 54.0				Q11
29P	2017 08 24.58361	21 16 48.86	−14 18 54.5				Q11
29P	2017 08 24.59213	21 16 48.61	−14 18 55.2	13.2	T		Q11
29P	2017 08 24.86304	21 16 41.42	−14 19 14.9	13.8	N		J22
29P	2017 08 24.86697	21 16 41.30	−14 19 15.6	13.8	N		J22
29P	2017 08 24.87082	21 16 41.23	−14 19 16.6	13.8	N		J22
29P	2017 08 24.93066	21 16 39.50	−14 19 20.9	14.2	N		B74
29P	2017 08 24.94182	21 16 39.21	−14 19 21.8	14.2	N		B74
29P	2017 08 24.94750	21 16 39.12	−14 19 22.0	13.8	N		J01
29P	2017 08 24.95036	21 16 38.97	−14 19 22.4	14.2	N		B74
29P	2017 08 24.96231	21 16 38.66	−14 19 23.4	13.8	N		J01
29P	2017 08 24.96655	21 16 38.63	−14 19 21.6	14.0	N		W96
29P	2017 08 24.98449	21 16 38.06	−14 19 25.1	13.8	N		J01
29P	2017 08 24.99120	21 16 37.95	−14 19 23.6	14.0	N		W96
29P	2017 08 25.01669	21 16 37.25	−14 19 25.7	14.0	N		W96
29P	2017 08 25.04219	21 16 36.56	−14 19 27.4	14.0	N		W96
29P	2017 08 25.06755	21 16 35.86	−14 19 29.4	14.0	N		W96
29P	2017 08 25.09650	21 16 35.07	−14 19 31.7	14.0	N		W96
29P	2017 08 25.12191	21 16 34.36	−14 19 33.7	14.0	N		W96
29P	2017 08 25.29559	21 16 29.72	−14 19 46.7	14.3	N	K	E94
29P	2017 08 25.31716	21 16 29.19	−14 19 47.8	14.2	N	K	E94
29P	2017 08 25.33166	21 16 28.75	−14 19 49.3	14.2	N	K	E94
29P	2017 08 25.43366	21 16 26.00	−14 19 57.2	14.3	N	K	E94
29P	2017 08 25.96704	21 16 11.75	−14 20 39.9	14.1	N		J01
29P	2017 08 25.97201	21 16 11.65	−14 20 37.7	14.2	N		W96
29P	2017 08 25.97781	21 16 11.46	−14 20 40.7	14.0	N		J01
29P	2017 08 25.98139	21 16 11.33	−14 20 40.8	14.0	N		J01
29P	2017 08 25.99684	21 16 11.01	−14 20 39.7	14.2	N		W96
29P	2017 08 26.02230	21 16 10.33	−14 20 41.9	14.2	N		W96
29P	2017 08 26.04773	21 16 09.62	−14 20 43.8	14.2	N		W96
29P	2017 08 26.05880	21 16 09.21	−14 20 46.3	14.0	N		J22
29P	2017 08 26.06079	21 16 09.18	−14 20 46.7	14.0	N		J22
29P	2017 08 26.06659	21 16 09.03	−14 20 47.1	14.0	N		J22
29P	2017 08 26.07310	21 16 08.90	−14 20 45.4	14.2	N		W96
29P	2017 08 26.10208	21 16 08.13	−14 20 47.9	14.2	N		W96
29P	2017 08 26.12750	21 16 07.44	−14 20 50.0	14.2	N		W96
29P	2017 08 26.42103	21 15 59.57	−14 21 13.4	14.0	T		T08
29P	2017 08 26.43002	21 15 59.32	−14 21 14.1	14.0	T		T08
29P	2017 08 26.43849	21 15 59.10	−14 21 14.8	14.0	T		T08
29P	2017 08 26.44203	21 15 59.00	−14 21 14.9	14.0	T		T08
29P	2017 08 26.44754	21 15 58.84	−14 21 15.5	14.0	T		T08
29P	2017 08 26.45056	21 15 58.77	−14 21 15.6	14.0	T		T08
29P	2017 08 26.45959	21 15 58.52	−14 21 16.2	14.0	T		T08
29P	2017 08 26.48522	21 15 57.99	−14 21 18.2				D95
29P	2017 08 26.49277	21 15 57.77	−14 21 18.5	12.8	T		D95
29P	2017 08 26.55547	21 15 56.07	−14 21 23.6				K 367
29P	2017 08 26.56033	21 15 55.93	−14 21 24.2	12.4	T		K 367
29P	2017 08 26.66106	21 15 53.19	−14 21 28.5	13.2	N		Q64
29P	2017 08 26.66945	21 15 52.93	−14 21 29.6	13.2	N		Q64
29P	2017 08 26.67065	21 15 52.90	−14 21 29.8	13.4	N		Q64
29P	2017 08 26.89515	21 15 47.09	−14 21 48.9	14.3	N		K25
29P	2017 08 26.89737	21 15 47.13	−14 21 49.0	14.4	N		K25

29P	2017 08 26.89959	21 15 47.04	−14 21 49.1	14.4	N	K25	29P	2017 08 28.83748	21 14 56.54	−14 24 09.4	12.2	N	K25
29P	2017 08 26.90180	21 15 46.97	−14 21 49.1	14.3	N	K25	29P	2017 08 28.83970	21 14 56.47	−14 24 09.4	12.2	N	K25
29P	2017 08 26.90402	21 15 46.94	−14 21 49.0	14.4	N	K25	29P	2017 08 28.85616	21 14 56.02	−14 24 11.1	12.5	N	A77
29P	2017 08 26.90624	21 15 46.85	−14 21 49.2	14.3	N	K25	29P	2017 08 28.86980	21 14 55.73	−14 24 11.5	12.3	N	J22
29P	2017 08 26.91753	21 15 46.55	−14 21 50.2	14.3	N	K25	29P	2017 08 28.87172	21 14 55.66	−14 24 11.6	12.3	N	J22
29P	2017 08 26.92197	21 15 46.46	−14 21 51.3	14.4	N	K25	29P	2017 08 28.87366	21 14 55.61	−14 24 11.8	12.3	N	J22
29P	2017 08 26.92440	21 15 46.30	−14 21 51.3	14.3	N	K25	29P	2017 08 28.87711	21 14 55.44	−14 24 12.6	12.0	T	A77
29P	2017 08 26.92663	21 15 46.29	−14 21 51.4	14.3	N	K25	29P	2017 08 28.90019	21 14 54.87	−14 24 14.1	12.4	N	A77
29P	2017 08 26.96262	21 15 45.34	−14 21 53.8	14.4	N	J22	29P	2017 08 28.94418	21 14 53.70	−14 24 17.4	12.4	N	A77
29P	2017 08 26.96462	21 15 45.32	−14 21 53.7	14.4	N	J22	29P	2017 08 28.94791	21 14 53.62	−14 24 17.4	12.2	N	C23
29P	2017 08 26.96847	21 15 45.20	−14 21 53.6	14.4	N	J22	29P	2017 08 28.95166	21 14 53.51	−14 24 17.7	12.2	N	C23
29P	2017 08 26.97237	21 15 45.11	−14 21 52.5	14.5	N	W96	29P	2017 08 28.95540	21 14 53.42	−14 24 17.9	12.2	N	C23
29P	2017 08 26.99702	21 15 44.45	−14 21 54.1	14.5	N	W96	29P	2017 08 28.95573	21 14 53.38	−14 24 18.4	12.0	T	A77
29P	2017 08 27.02251	21 15 43.78	−14 21 56.4	14.5	N	W96	29P	2017 08 28.95914	21 14 53.32	−14 24 18.2	12.3	N	C23
29P	2017 08 27.04807	21 15 43.05	−14 21 58.0	14.5	N	W96	29P	2017 08 28.95926	21 14 53.40	−14 24 15.3	13.9	N	K 212
29P	2017 08 27.07357	21 15 42.38	−14 22 00.1	14.5	N	W96	29P	2017 08 28.96255	21 14 53.18	−14 24 16.5	11.2	N	K92
29P	2017 08 27.10995	21 15 41.36	−14 22 03.0	14.5	N	W96	29P	2017 08 28.96731	21 14 53.06	−14 24 16.8	11.3	N	K92
29P	2017 08 27.12802	21 15 40.88	−14 22 04.2	14.5	N	W96	29P	2017 08 28.96938	21 14 53.04	−14 24 18.5	12.6	N	K 212
29P	2017 08 27.89459	21 15 20.96	−14 23 01.2	12.1	N	C23	29P	2017 08 28.97042	21 14 53.14	−14 24 16.8	12.5	N	W96
29P	2017 08 27.89759	21 15 20.88	−14 23 01.4	12.2	N	C23	29P	2017 08 28.97234	21 14 52.96	−14 24 19.4	12.4	N	A77
29P	2017 08 27.90058	21 15 20.79	−14 23 01.6	12.2	N	C23	29P	2017 08 28.97327	21 14 52.91	−14 24 17.1	11.3	N	K92
29P	2017 08 27.92095	21 15 20.26	−14 23 02.9	12.0	N	K25	29P	2017 08 28.97729	21 14 52.64	−14 24 21.2	14.3	N	K 212
29P	2017 08 27.92317	21 15 20.22	−14 23 03.0	12.0	N	K25	29P	2017 08 28.99504	21 14 52.51	−14 24 18.8	12.5	N	W96
29P	2017 08 27.92539	21 15 20.14	−14 23 03.2	12.0	N	K25	29P	2017 08 29.01996	21 14 51.86	−14 24 20.4	12.7	N	W96
29P	2017 08 27.92761	21 15 20.08	−14 23 03.5	12.0	N	K25	29P	2017 08 29.04565	21 14 51.18	−14 24 22.4	12.5	N	W96
29P	2017 08 27.92984	21 15 20.02	−14 23 03.6	12.0	N	K25	29P	2017 08 29.07106	21 14 50.51	−14 24 24.2	12.5	N	W96
29P	2017 08 27.93206	21 15 19.96	−14 23 03.9	12.0	N	K25	29P	2017 08 29.10015	21 14 49.73	−14 24 26.5	12.5	N	W96
29P	2017 08 27.93428	21 15 19.93	−14 23 04.0	12.1	N	K25	29P	2017 08 29.11323	21 14 49.34	−14 24 27.7	12.0	T	W96
29P	2017 08 27.93650	21 15 19.86	−14 23 04.1	12.0	N	K25	29P	2017 08 29.12560	21 14 49.07	−14 24 28.2	12.5	N	W96
29P	2017 08 27.94239	21 15 19.67	−14 23 04.4	12.0	N	K25	29P	2017 08 29.41396	21 14 41.65	−14 24 48.1	12.9	N	K E94
29P	2017 08 27.95591	21 15 19.32	−14 23 05.7	12.0	N	K25	29P	2017 08 29.42706	21 14 41.30	−14 24 49.1	13.0	N	K E94
29P	2017 08 27.96710	21 15 19.04	−14 23 06.9	12.4	N	Z80	29P	2017 08 29.44016	21 14 40.95	−14 24 50.7	12.9	N	K E94
29P	2017 08 27.96781	21 15 19.02	−14 23 06.6	12.4	N	Z80	29P	2017 08 29.46174	21 14 40.40	−14 24 51.2	12.9	N	K E94
29P	2017 08 27.96852	21 15 19.00	−14 23 06.7	12.4	N	Z80	29P	2017 08 29.47505	21 14 40.04	−14 24 52.7	13.0	N	K E94
29P	2017 08 27.96871	21 15 19.08	−14 23 04.4	12.5	N	W96	29P	2017 08 29.48813	21 14 39.71	−14 24 53.7	13.0	N	K E94
29P	2017 08 27.96923	21 15 18.98	−14 23 06.6	12.4	N	Z80	29P	2017 08 29.50126	21 14 39.33	−14 24 54.6	13.0	N	K E94
29P	2017 08 27.96994	21 15 18.98	−14 23 06.7	12.2	N	Z80	29P	2017 08 29.51445	21 14 39.00	−14 24 55.1	12.9	N	K E94
29P	2017 08 27.97065	21 15 18.90	−14 23 06.8	12.3	N	Z80	29P	2017 08 29.52764	21 14 38.67	−14 24 56.2	12.9	N	K E94
29P	2017 08 27.97420	21 15 18.84	−14 23 06.9	12.4	N	Z80	29P	2017 08 29.54116	21 14 38.28	−14 24 57.5	12.9	N	K E94
29P	2017 08 27.97491	21 15 18.82	−14 23 07.2	12.4	N	Z80	29P	2017 08 29.55502	21 14 37.97	−14 24 58.3	13.0	N	K E94
29P	2017 08 27.99339	21 15 18.44	−14 23 06.3	12.5	N	W96	29P	2017 08 29.56820	21 14 37.60	−14 24 58.9	12.9	N	K E94
29P	2017 08 28.01877	21 15 17.77	−14 23 08.1	12.5	N	W96	29P	2017 08 29.58131	21 14 37.28	−14 25 00.2	13.0	N	K E94
29P	2017 08 28.04426	21 15 17.09	−14 23 10.2	12.5	N	W96	29P	2017 08 29.59450	21 14 36.92	−14 25 01.0	13.0	N	K E94
29P	2017 08 28.06959	21 15 16.41	−14 23 11.9	12.6	N	W96	29P	2017 08 29.60760	21 14 36.62	−14 25 02.3	13.0	N	K E94
29P	2017 08 28.09860	21 15 15.65	−14 23 14.0	12.5	N	W96	29P	2017 08 29.62080	21 14 36.25	−14 25 03.0	13.0	N	K E94
29P	2017 08 28.12400	21 15 14.95	−14 23 15.9	12.5	N	W96	29P	2017 08 29.63391	21 14 35.95	−14 25 03.9	13.1	N	K E94
29P	2017 08 28.41580	21 15 07.36	−14 23 38.9	12.1	T	T05	29P	2017 08 29.64700	21 14 35.57	−14 25 04.1	13.0	N	K E94
29P	2017 08 28.42864	21 15 07.02	−14 23 39.8	12.1	T	T05	29P	2017 08 29.66012	21 14 35.23	−14 25 05.4	13.1	N	K E94
29P	2017 08 28.43291	21 15 06.91	−14 23 40.1	12.2	T	T05	29P	2017 08 29.67324	21 14 34.88	−14 25 06.1	13.1	N	K E94
29P	2017 08 28.44244	21 15 06.65	−14 23 40.8	12.1	T	T05	29P	2017 08 29.68642	21 14 34.56	−14 25 07.7	13.2	N	K E94
29P	2017 08 28.83009	21 14 56.70	−14 24 08.5	12.2	N	K25	29P	2017 08 29.87560	21 14 30.01	−14 25 22.9	12.7	N	K A71
29P	2017 08 28.83231	21 14 56.66	−14 24 09.2	12.2	N	K25	29P	2017 08 29.88884	21 14 29.68	−14 25 23.9	12.7	N	K A71
29P	2017 08 28.83526	21 14 56.58	−14 24 09.3	12.2	N	K25	29P	2017 08 29.90208	21 14 29.36	−14 25 24.6	12.7	N	K A71

29P	2017 08 29.92044	21 14 28.77	−14 25 25.1	12.8	N	9 G40
29P	2017 08 29.95521	21 14 27.86	−14 25 27.9	12.8	N	9 G40
29P	2017 08 29.97004	21 14 27.57	−14 25 27.8	12.8	N	W96
29P	2017 08 29.98414	21 14 27.11	−14 25 31.0	13.5	N	K97
29P	2017 08 29.99482	21 14 26.90	−14 25 30.0	12.8	N	W96
29P	2017 08 30.00601	21 14 26.54	−14 25 32.5	13.4	N	K97
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29P	2017 08 30.02497	21 14 26.05	−14 25 34.0	13.5	N	K97
29P	2017 08 30.04549	21 14 25.57	−14 25 33.2	12.8	N	W96
29P	2017 08 30.07100	21 14 24.93	−14 25 35.4	12.8	N	W96
29P	2017 08 30.09466	21 14 24.29	−14 25 38.9	12.6	N	750
29P	2017 08 30.10010	21 14 24.20	−14 25 37.0	12.9	N	W96
29P	2017 08 30.10769	21 14 23.97	−14 25 39.8	12.8	N	750
29P	2017 08 30.11100	21 14 23.84	−14 25 38.5	12.0	T	W96
29P	2017 08 30.12560	21 14 23.50	−14 25 38.6	12.9	N	W96
29P	2017 08 30.40005	21 14 16.60	−14 25 57.6	14.9	N	25Q62
29P	2017 08 30.40475	21 14 16.48	−14 25 57.7	15.0	N	25Q62
29P	2017 08 30.94788	21 14 02.74	−14 26 37.4	13.5	N	9 G40
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29P	2017 08 31.06850	21 13 59.79	−14 26 44.5	13.3	N	W96
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29P	2017 08 31.12308	21 13 58.36	−14 26 48.6	13.3	N	W96
29P	2017 08 31.19075	21 13 56.70	−14 26 54.4	13.9	N	e H06
29P	2017 08 31.19455	21 13 56.60	−14 26 54.4	14.0	N	e H06
29P	2017 08 31.59874	21 13 46.42	−14 27 22.1			900
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29P	2017 08 31.64410	21 13 45.29	−14 27 26.5			372
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29P	2017 08 31.87329	21 13 39.70	−14 27 41.5	13.6	N	C10
29P	2017 08 31.87710	21 13 39.60	−14 27 42.2	13.6	N	C10
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29P	2017 09 01.02897	21 13 35.76	−14 27 51.3	13.3	N	I72
29P	2017 09 01.03121	21 13 35.70	−14 27 51.4	13.3	N	I72
29P	2017 09 01.03196	21 13 35.69	−14 27 51.4	13.3	N	I72
29P	2017 09 01.04648	21 13 35.43	−14 27 51.7	13.6	N	W96
29P	2017 09 01.07193	21 13 34.81	−14 27 53.2	13.6	N	W96
29P	2017 09 01.10091	21 13 34.07	−14 27 56.1	13.6	N	W96
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29P	2017 09 01.85581	21 13 15.56	−14 28 47.8	13.9	N	A77
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29P	2017 09 01.91994	21 13 14.01	−14 28 51.8	13.4	N	J38
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29P	2017 09 02.01082	21 13 11.73	−14 28 56.8	13.4	N	I72
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29P	2017 09 02.10089	21 13 09.59	−14 29 01.8	13.9	N	W96
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29P	2017 09 02.55990	21 12 58.37	−14 29 34.5	12.2	N	Q21
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29P	2017 09 02.96504	21 12 48.72	−14 30 00.2	14.7	N	C23
29P	2017 09 02.96576	21 12 48.55	−14 29 58.2	15.1	N	K02
29P	2017 09 02.97348	21 12 48.49	−14 29 58.4	15.3	N	K02
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29P	2017 09 04.81336	21 12 05.13	−14 31 54.9	13.2	N	C35
29P	2017 09 04.81477	21 12 05.09	−14 31 56.1	13.3	N	C35
29P	2017 09 04.81618	21 12 05.13	−14 31 54.4	13.3	N	C35
29P	2017 09 04.81758	21 12 05.03	−14 31 53.9	13.3	N	C35
29P	2017 09 04.81900	21 12 05.02	−14 31 54.7	13.2	N	C35
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29P	2017 09 04.85510	21 12 04.15	−14 31 57.6	13.8	N	A77
29P	2017 09 04.90281	21 12 02.99	−14 32 01.0	13.9	N	A77
29P	2017 09 04.94684	21 12 01.95	−14 32 02.7	13.8	N	A77
29P	2017 09 04.97861	21 12 01.21	−14 32 04.9	13.8	N	A77
29P	2017 09 05.01179	21 12 00.45	−14 32 07.1	13.8	N	A77
29P	2017 09 05.15052	21 11 57.23	−14 32 13.4	13.8	N	W96
29P	2017 09 05.17369	21 11 56.67	−14 32 14.6	13.9	N	W96
29P	2017 09 05.19965	21 11 56.06	−14 32 16.4	13.8	N	W96
29P	2017 09 05.22580	21 11 55.46	−14 32 17.7	13.9	N	W96
29P	2017 09 05.26338	21 11 54.56	−14 32 20.0	13.8	N	W96
29P	2017 09 05.28942	21 11 53.95	−14 32 21.6	13.9	N	W96
29P	2017 09 05.88087	21 11 40.58	−14 32 58.9	13.8	N	A77
29P	2017 09 05.90181	21 11 40.11	−14 33 00.6	14.0	N	A77
29P	2017 09 05.92490	21 11 39.54	−14 33 02.0	13.9	N	A77
29P	2017 09 05.94589	21 11 39.08	−14 33 03.2	13.9	N	A77
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29P	2017 09 06.87998	21 11 18.05	−14 33 57.9	14.3	N	A77	29P	2017 09 08.89763	21 10 33.91	−14 35 52.0	14.0	N	585
29P	2017 09 06.88452	21 11 18.05	−14 34 00.6	13.7	N	J38	29P	2017 09 08.89981	21 10 33.88	−14 35 52.4	13.9	N	585
29P	2017 09 06.90307	21 11 17.58	−14 33 59.2	14.3	N	A77	29P	2017 09 08.90200	21 10 33.82	−14 35 52.4	13.9	N	585
29P	2017 09 06.91022	21 11 17.38	−14 34 00.5	13.8	N	J01	29P	2017 09 08.90492	21 10 33.73	−14 35 52.3	13.9	N	585
29P	2017 09 06.91681	21 11 17.22	−14 34 00.6	13.8	N	J01	29P	2017 09 08.90711	21 10 33.67	−14 35 52.7	13.9	N	585
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29P	2017 09 06.94287	21 11 16.63	−14 34 02.3	14.8	N	K A77	29P	2017 09 08.91877	21 10 33.38	−14 35 53.8	13.9	N	585
29P	2017 09 06.94706	21 11 16.56	−14 34 02.2	14.5	N	A77	29P	2017 09 08.93161	21 10 33.22	−14 35 55.4	15.1	N	K A77
29P	2017 09 06.97882	21 11 15.82	−14 34 04.3	14.4	N	A77	29P	2017 09 08.96616	21 10 32.42	−14 35 56.1	14.4	N	J22
29P	2017 09 07.00612	21 11 15.32	−14 34 04.0	14.3	N	W96	29P	2017 09 08.97142	21 10 32.33	−14 35 56.9	15.0	N	K A77
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29P	2017 09 07.05614	21 11 14.21	−14 34 06.6	14.3	N	W96	29P	2017 09 08.98685	21 10 32.15	−14 35 55.4	14.9	N	W96
29P	2017 09 07.09241	21 11 13.35	−14 34 08.7	14.3	N	W96	29P	2017 09 08.99360	21 10 31.79	−14 35 57.0	15.3	N	9 G40
29P	2017 09 07.12070	21 11 12.70	−14 34 10.9	14.3	N	W96	29P	2017 09 09.01160	21 10 31.60	−14 35 56.7	14.9	N	W96
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29P	2017 09 07.86538	21 10 56.39	−14 34 56.1	13.1	N	2 G40	29P	2017 09 09.03701	21 10 31.05	−14 35 57.8	14.8	N	W96
29P	2017 09 07.86632	21 10 56.40	−14 34 56.5	13.2	N	2 G40	29P	2017 09 09.06239	21 10 30.52	−14 35 59.7	14.8	N	W96
29P	2017 09 07.86728	21 10 56.35	−14 34 56.5	13.1	N	2 G40	29P	2017 09 09.08569	21 10 30.02	−14 36 01.2	14.9	N	W96
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29P	2017 09 07.86859	21 10 56.26	−14 34 54.8	14.6	N	A77	29P	2017 09 09.81557	21 10 14.61	−14 36 41.7	15.1	N	C10
29P	2017 09 07.86916	21 10 56.35	−14 34 56.8	13.1	N	2 G40	29P	2017 09 09.83744	21 10 14.10	−14 36 43.1	15.1	N	C10
29P	2017 09 07.89167	21 10 55.73	−14 34 57.3	14.6	N	A77	29P	2017 09 09.86082	21 10 13.62	−14 36 44.5	15.1	N	C10
29P	2017 09 07.89411	21 10 55.61	−14 34 56.3	13.8	N	585	29P	2017 09 09.89574	21 10 12.87	−14 36 45.8	15.1	N	C10
29P	2017 09 07.89482	21 10 55.62	−14 34 56.3	13.8	N	585	29P	2017 09 09.90108	21 10 12.69	−14 36 45.5	14.4	N	Z55
29P	2017 09 07.89553	21 10 55.59	−14 34 56.6	13.7	N	585	29P	2017 09 09.90170	21 10 12.68	−14 36 45.4	14.4	N	Z55
29P	2017 09 07.89624	21 10 55.55	−14 34 56.6	13.8	N	585	29P	2017 09 09.90287	21 10 12.66	−14 36 45.6	14.4	N	Z55
29P	2017 09 07.89765	21 10 55.54	−14 34 56.6	13.7	N	585	29P	2017 09 09.90553	21 10 12.56	−14 36 46.3	14.4	N	J01
29P	2017 09 07.89836	21 10 55.53	−14 34 56.6	13.8	N	585	29P	2017 09 09.91631	21 10 12.32	−14 36 46.3	14.4	N	J01
29P	2017 09 07.89907	21 10 55.52	−14 34 56.6	13.8	N	585	29P	2017 09 09.91935	21 10 12.35	−14 36 47.2	15.1	N	C10
29P	2017 09 07.89978	21 10 55.49	−14 34 56.8	13.8	N	585	29P	2017 09 09.93066	21 10 12.08	−14 36 47.2	14.4	N	J01
29P	2017 09 07.90049	21 10 55.48	−14 34 56.8	13.7	N	585	29P	2017 09 09.96476	21 10 11.33	−14 36 49.6	15.6	N	K02
29P	2017 09 07.90120	21 10 55.45	−14 34 57.0	13.7	N	585	29P	2017 09 09.96936	21 10 11.19	−14 36 50.5	15.6	N	K02
29P	2017 09 07.90190	21 10 55.46	−14 34 56.8	13.7	N	585	29P	2017 09 10.84774	21 09 53.17	−14 37 35.3	15.8	N	K14
29P	2017 09 07.91260	21 10 55.28	−14 34 58.1	14.5	N	A77	29P	2017 09 10.87293	21 09 52.61	−14 37 36.6	15.4	N	A77
29P	2017 09 07.93568	21 10 54.74	−14 34 58.4	14.7	N	A77	29P	2017 09 10.87315	21 09 52.70	−14 37 35.2	15.7	N	K14
29P	2017 09 07.95663	21 10 54.31	−14 35 00.5	14.6	N	A77	29P	2017 09 10.89387	21 09 52.21	−14 37 37.9	15.3	N	A77
29P	2017 09 07.97829	21 10 53.83	−14 35 01.9	14.7	N	A77	29P	2017 09 10.91694	21 09 51.74	−14 37 38.2	15.1	N	A77
29P	2017 09 08.39899	21 10 44.70	−14 35 23.6	15.2	N	32Q62	29P	2017 09 10.93788	21 09 51.31	−14 37 40.2	15.2	N	A77
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29P	2017 09 08.44475	21 10 43.75	−14 35 27.3			K D81	29P	2017 09 10.95622	21 09 50.81	−14 37 41.3	16.0	N	K02
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29P	2017 09 08.44811	21 10 43.65	−14 35 27.2			K D81	29P	2017 09 10.96094	21 09 50.84	−14 37 41.0	15.2	N	A77
29P	2017 09 08.45150	21 10 43.63	−14 35 27.2	11.5	T	K D81	29P	2017 09 10.97322	21 09 50.51	−14 37 42.2	15.3	N	A77
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29P	2017 09 08.88523	21 10 34.18	−14 35 51.2	14.0	N	585	29P	2017 09 11.84540	21 09 33.02	−14 38 25.0	14.2	N	585
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29P	2017 09 08.88815	21 10 34.14	−14 35 51.5	14.0	N	585	29P	2017 09 11.84692	21 09 32.95	−14 38 25.0	14.2	N	585

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29P	2017 09 11.85203	21 09 32.86	−14 38 25.5	14.2	N		585
29P	2017 09 11.85274	21 09 32.79	−14 38 25.4	14.2	N		585
29P	2017 09 11.85346	21 09 32.83	−14 38 25.7	14.1	N		585
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29P	2017 09 11.85567	21 09 32.77	−14 38 25.3	14.1	N		585
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29P	2017 09 11.85720	21 09 32.73	−14 38 25.2	14.1	N		585
29P	2017 09 11.88959	21 09 32.09	−14 38 27.2	14.7	N		I57
29P	2017 09 11.90166	21 09 31.82	−14 38 27.5	14.7	N		I57
29P	2017 09 11.90972	21 09 31.69	−14 38 27.8	14.7	N		I57
29P	2017 09 11.94900	21 09 30.89	−14 38 30.2	15.7	N		K02
29P	2017 09 11.95576	21 09 30.74	−14 38 30.2	16.3	N		K02
29P	2017 09 11.96340	21 09 30.58	−14 38 31.2	15.8	N		K02
29P	2017 09 11.97800	21 09 30.44	−14 38 29.8	15.4	N		W96
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29P	2017 09 12.07894	21 09 28.37	−14 38 34.7	15.4	N		W96
29P	2017 09 12.10799	21 09 27.78	−14 38 35.9	15.4	N		W96
29P	2017 09 12.32892	21 09 23.34	−14 38 46.0	16.1	N	K	E94
29P	2017 09 12.34091	21 09 23.17	−14 38 46.7	16.0	N	K	E94
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29P	2017 09 12.50207	21 09 20.01	−14 38 54.6	15.6	N		Q68
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29P	2017 09 12.83727	21 09 13.40	−14 39 12.1	16.2	N	K	107
29P	2017 09 12.83895	21 09 13.50	−14 39 13.0	15.5	N	K	A77
29P	2017 09 12.85889	21 09 13.02	−14 39 13.5	16.2	N	K	107
29P	2017 09 12.86209	21 09 13.02	−14 39 13.5	15.6	N	K	A77
29P	2017 09 12.87756	21 09 12.71	−14 39 14.7	14.6	N		J38
29P	2017 09 12.88306	21 09 12.65	−14 39 15.0	15.5	N	K	A77
29P	2017 09 12.88326	21 09 12.59	−14 39 14.7	14.5	N		J38
29P	2017 09 12.88612	21 09 12.52	−14 39 14.8	14.6	N		J38
29P	2017 09 12.89021	21 09 12.42	−14 39 14.7	15.6	N	K	107
29P	2017 09 12.90620	21 09 12.17	−14 39 15.7	15.5	N	K	A77
29P	2017 09 12.90809	21 09 12.10	−14 39 16.0	15.7	N	K	107
29P	2017 09 12.92713	21 09 11.76	−14 39 17.5	15.5	N	K	A77
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29P	2017 09 13.00453	21 09 10.29	−14 39 18.2	11.5	T		I47
29P	2017 09 13.04146	21 09 09.50	−14 39 19.9	11.5	T		I47
29P	2017 09 13.32048	21 09 04.087	−14 39 34.20	17.2	T		F51
29P	2017 09 13.33409	21 09 03.809	−14 39 34.88	17.0	T		F51
29P	2017 09 13.34769	21 09 03.545	−14 39 35.49	17.2	T		F51
29P	2017 09 13.778584	21 08 55.412	−14 39 56.75	16.1	N	5	089
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29P	2017 09 13.811605	21 08 54.758	−14 39 57.71	16.1	N	5	089
29P	2017 09 13.81269	21 08 54.82	−14 39 57.6	13.2	N		585
29P	2017 09 13.813388	21 08 54.720	−14 39 57.67	16.0	N	5	089
29P	2017 09 13.81412	21 08 54.80	−14 39 57.7	13.2	N		585
29P	2017 09 13.815170	21 08 54.708	−14 39 57.91	16.1	N	5	089
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29P	2017 09 13.82273	21 08 54.61	−14 39 57.9	13.2	N		585
29P	2017 09 13.841084	21 08 54.171	−14 39 58.81	16.3	N	5	089
29P	2017 09 13.842867	21 08 54.162	−14 39 59.14	16.2	N	5	089
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29P	2017 09 13.88758	21 08 53.34	−14 40 00.4	14.8	N		J38
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29P	2017 09 13.91589	21 08 52.78	−14 40 02.1	14.9	N		J01
29P	2017 09 13.93022	21 08 52.49	−14 40 02.3	15.0	N		J01
29P	2017 09 13.93740	21 08 52.34	−14 40 02.8	15.0	N		J01
29P	2017 09 13.95947	21 08 51.96	−14 40 03.3	15.0	N		J22
29P	2017 09 13.96341	21 08 51.90	−14 40 03.9	15.0	N		J22
29P	2017 09 13.96734	21 08 51.79	−14 40 04.1	15.0	N		J22
29P	2017 09 14.15701	21 08 48.17	−14 40 10.2	15.7	N		W85
29P	2017 09 14.16297	21 08 48.04	−14 40 10.4	15.6	N		W85
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29P	2017 09 14.41772	21 08 43.35	−14 40 21.3	16.4	N	K	E94
29P	2017 09 14.46039	21 08 42.65	−14 40 26.4	11.1	T		D95
29P	2017 09 14.46362	21 08 42.54	−14 40 26.3				D95
29P	2017 09 14.47099	21 08 42.37	−14 40 24.8	16.4	N	K	E94
29P	2017 09 14.48513	21 08 42.03	−14 40 25.0	16.4	N	K	E94
29P	2017 09 14.57602	21 08 40.50	−14 40 29.8			K	D81
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29P	2017 09 14.58748	21 08 40.31	−14 40 32.0	12.4	T	K	D81
29P	2017 09 14.63452	21 08 39.28	−14 40 30.7	16.4	N	K	E94
29P	2017 09 14.776458	21 08 36.784	−14 40 40.05	16.2	N	5	089
29P	2017 09 14.778237	21 08 36.765	−14 40 40.67	16.2	N	5	089
29P	2017 09 14.780019	21 08 36.715	−14 40 40.70	16.3	N	5	089
29P	2017 09 14.78793	21 08 36.63	−14 40 40.7	14.6	N		585
29P	2017 09 14.78978	21 08 36.57	−14 40 40.6	14.6	N		585
29P	2017 09 14.79257	21 08 36.52	−14 40 40.9	14.6	N		585
29P	2017 09 14.79536	21 08 36.47	−14 40 41.0	14.6	N		585
29P	2017 09 14.79707	21 08 36.43	−14 40 41.0	14.6	N		585
29P	2017 09 14.79848	21 08 36.33	−14 40 40.4	14.7	N		585
29P	2017 09 14.79988	21 08 36.37	−14 40 41.1	14.7	N		585
29P	2017 09 14.807857	21 08 36.206	−14 40 41.64	16.2	N	5	089
29P	2017 09 14.811109	21 08 36.156	−14 40 41.88	16.2	N	5	089
29P	2017 09 14.812889	21 08 36.112	−14 40 41.57	16.2	N	5	089
29P	2017 09 14.82222	21 08 36.04	−14 40 42.1	16.1	N	K	A77
29P	2017 09 14.841860	21 08 35.549	−14 40 43.00	16.2	N	5	089
29P	2017 09 14.843642	21 08 35.541	−14 40 43.06	16.2	N	5	089
29P	2017 09 14.845425	21 08 35.488	−14 40 43.27	16.3	N	5	089
29P	2017 09 14.94179	21 08 33.69	−14 40 46.6	16.5	N		K02
29P	2017 09 14.94866	21 08 33.54	−14 40 47.8	16.4	N		K02

29P	2017 09 14.95600	21 08 33.55	−14 40 48.6	16.0	N	K	A77
29P	2017 09 14.95638	21 08 33.39	−14 40 47.7	16.1	N		K02
29P	2017 09 15.15702	21 08 29.73	−14 40 54.0	16.3	N		W85
29P	2017 09 15.16179	21 08 29.64	−14 40 54.2	16.3	N		W85
29P	2017 09 15.16774	21 08 29.53	−14 40 54.5	16.5	N		W85
29P	2017 09 15.39863	21 08 25.38	−14 41 05.9	16.4	T		T05
29P	2017 09 15.40892	21 08 25.18	−14 41 06.4	16.3	T		T05
29P	2017 09 15.41916	21 08 25.00	−14 41 06.6	16.3	T		T05
29P	2017 09 15.42436	21 08 24.90	−14 41 06.7	16.4	T		T05
29P	2017 09 15.42948	21 08 24.80	−14 41 07.2	16.3	T		T05
29P	2017 09 15.87825	21 08 16.83	−14 41 25.7	15.1	N		J01
29P	2017 09 15.89671	21 08 16.50	−14 41 26.9	15.1	N		J01
29P	2017 09 15.91668	21 08 16.23	−14 41 27.8	16.1	N		C23
29P	2017 09 15.92790	21 08 15.96	−14 41 28.5	15.7	N		C23
29P	2017 09 15.92987	21 08 15.88	−14 41 28.0	15.2	N		J01
29P	2017 09 15.93355	21 08 15.83	−14 41 28.2	15.1	N		J01
29P	2017 09 15.93763	21 08 15.76	−14 41 29.2	15.8	N		C23
29P	2017 09 15.94630	21 08 15.60	−14 41 28.6	15.2	N		J22
29P	2017 09 15.95031	21 08 15.54	−14 41 29.0	15.2	N		J22
29P	2017 09 15.95427	21 08 15.46	−14 41 29.1	15.2	N		J22
29P	2017 09 15.98174	21 08 15.09	−14 41 28.4	16.0	N		W96
29P	2017 09 16.00492	21 08 14.52	−14 41 31.2	15.0	N		J53
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29P	2017 09 16.00666	21 08 14.66	−14 41 30.0	15.9	N		W96
29P	2017 09 16.01019	21 08 14.45	−14 41 31.1	14.9	N		J53
29P	2017 09 16.03221	21 08 14.18	−14 41 31.0	15.9	N		W96
29P	2017 09 16.05793	21 08 13.74	−14 41 32.1	15.9	N		W96
29P	2017 09 16.08363	21 08 13.22	−14 41 32.7	15.9	N		W96
29P	2017 09 16.10045	21 08 12.94	−14 41 33.6	16.0	N		W96
29P	2017 09 16.16713	21 08 11.63	−14 41 35.5	16.4	N		W85
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29P	2017 09 16.29944	21 08 09.39	−14 41 40.1	15.9	N		E94
29P	2017 09 16.30187	21 08 09.36	−14 41 40.3	16.0	N		E94
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29P	2017 09 16.90591	21 07 58.80	−14 42 07.1	15.5	N	K	A77
29P	2017 09 16.91194	21 07 58.68	−14 42 07.1	15.3	N	K	A77
29P	2017 09 16.91940	21 07 58.56	−14 42 07.5	15.7	N	K	A77
29P	2017 09 16.92245	21 07 58.55	−14 42 08.0	14.7	N		C35
29P	2017 09 16.93190	21 07 58.35	−14 42 08.1	14.7	N		C35
29P	2017 09 16.93241	21 07 58.35	−14 42 07.9	14.8	N		C35
29P	2017 09 16.98586	21 07 57.54	−14 42 08.3	15.6	N		W96
29P	2017 09 17.01001	21 07 56.95	−14 42 09.5	14.8	N		212
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29P	2017 09 17.02596	21 07 56.72	−14 42 11.7	14.9	N		212
29P	2017 09 17.03449	21 07 56.55	−14 42 11.7	15.0	N		J22
29P	2017 09 17.03627	21 07 56.65	−14 42 10.7	15.6	N		W96
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29P	2017 09 17.19316	21 07 53.80	−14 42 15.9	15.6	N		W85
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29P	2017 09 17.22057	21 07 53.37	−14 42 17.9	15.6	N	K	I47
29P	2017 09 17.24730	21 07 52.92	−14 42 17.9	15.6	N	K	I47
29P	2017 09 17.36288	21 07 51.04	−14 42 24.8	15.3	T		T05
29P	2017 09 17.37122	21 07 50.89	−14 42 24.9	15.3	T		T05
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29P	2017 09 17.38740	21 07 50.54	−14 42 25.2	16.1	T		T05
29P	2017 09 17.43605	21 07 49.80	−14 42 25.0	15.6	N	6	Q62
29P	2017 09 17.45867	21 07 49.40	−14 42 26.5	15.5	N	6	Q62
29P	2017 09 17.48861	21 07 48.89	−14 42 27.2	15.6	N	6	Q62
29P	2017 09 17.72964	21 07 44.83	−14 42 37.6	16.2	N		C97
29P	2017 09 17.73125	21 07 44.81	−14 42 37.7	16.3	N		C97
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29P	2017 09 17.73444	21 07 44.74	−14 42 37.8	16.3	N		C97
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29P	2017 09 17.769321	21 07 44.191	−14 42 39.65	16.1	N	5	089
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29P	2017 09 17.83386	21 07 43.10	−14 42 39.6	16.9	N		K93
29P	2017 09 17.83862	21 07 43.02	−14 42 39.6	16.9	N		K93
29P	2017 09 17.839918	21 07 42.970	−14 42 42.04	16.4	N	5	089
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29P	2017 09 17.96666	21 07 40.82	−14 42 46.8	15.0	N		J22
29P	2017 09 17.98281	21 07 40.71	−14 42 46.4	15.7	N		W96
29P	2017 09 18.00780	21 07 40.28	−14 42 46.9	15.6	N		W96
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29P	2017 09 18.05905	21 07 39.38	−14 42 48.7	15.7	N		W96
29P	2017 09 18.08909	21 07 38.87	−14 42 50.1	15.7	N		W96
29P	2017 09 18.51343	21 07 31.81	−14 43 04.1	16.2	N	K	E94
29P	2017 09 18.51794	21 07 31.81	−14 43 07.3			K	D81
29P	2017 09 18.52252	21 07 31.67	−14 43 06.1			K	D81
29P	2017 09 18.52709	21 07 31.72	−14 43 06.8			K	D81
29P	2017 09 18.53168	21 07 31.58	−14 43 07.0	12.6	T	K	D81
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29P	2017 09 18.63388	21 07 29.91	−14 43 10.6				Q11
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29P	2017 09 19.05461	21 07 23.22	−14 43 23.8	15.9	N	W96	
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29P	2017 09 19.49898	21 07 16.22	−14 43 37.4	15.8	T	K 423	
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29P	2017 09 19.84616	21 07 10.78	−14 43 51.3	15.9	N	K Z80	
29P	2017 09 19.85023	21 07 10.77	−14 43 50.8	16.1	N	A77	
29P	2017 09 19.85373	21 07 10.69	−14 43 51.4	16.0	N	K Z80	
29P	2017 09 19.85698	21 07 10.56	−14 43 52.0	15.8	N	K Z80	
29P	2017 09 19.87171	21 07 10.42	−14 43 52.7	16.6	N	K14	
29P	2017 09 19.89426	21 07 09.99	−14 43 53.3	16.1	N	A77	
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29P	2017 09 20.15793	21 07 05.91	−14 43 58.3	15.6	N	K 822	
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29P	2017 09 20.80676	21 06 56.24	−14 44 20.9	16.1	N	A77	
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29P	2017 09 20.82886	21 06 55.90	−14 44 21.4	15.3	N	J38	
29P	2017 09 20.83282	21 06 55.75	−14 44 21.0	15.4	N	C86	
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29P	2017 09 20.85052	21 06 55.54	−14 44 21.9	16.0	N	A77	
29P	2017 09 20.86441	21 06 55.35	−14 44 22.1	16.9	N	K97	
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29P	2017 09 20.90683	21 06 54.69	−14 44 23.4	17.1	N	K97	
29P	2017 09 20.92285	21 06 54.44	−14 44 23.3	16.4	N	107	
29P	2017 09 20.93718	21 06 54.24	−14 44 24.9	16.1	N	A77	
29P	2017 09 20.96448	21 06 53.80	−14 44 24.7	16.1	N	9 G40	
29P	2017 09 20.97266	21 06 53.68	−14 44 25.0	16.2	N	9 G40	
29P	2017 09 20.98525	21 06 53.59	−14 44 24.3	16.1	N	W96	
29P	2017 09 21.03567	21 06 52.84	−14 44 25.8	16.3	N	W96	
29P	2017 09 21.09517	21 06 51.91	−14 44 27.6	16.3	N	W96	
29P	2017 09 21.35724	21 06 48.05	−14 44 36.3	16.7	T	T05	
29P	2017 09 21.36508	21 06 47.94	−14 44 36.7	16.8	T	T05	
29P	2017 09 21.37383	21 06 47.79	−14 44 36.8	16.8	T	T05	
29P	2017 09 21.38164	21 06 47.68	−14 44 37.2	16.8	T	T05	
29P	2017 09 21.78980	21 06 41.84	−14 44 48.3	15.8	N	107	
29P	2017 09 21.80691	21 06 41.62	−14 44 48.9	15.7	N	A77	
29P	2017 09 21.83174	21 06 41.22	−14 44 49.4	15.8	N	107	
29P	2017 09 21.84359	21 06 41.06	−14 44 50.3	15.7	N	K 215	
29P	2017 09 21.84488	21 06 41.04	−14 44 50.4	15.7	N	K 215	
29P	2017 09 21.84616	21 06 41.03	−14 44 50.4	15.7	N	K 215	
29P	2017 09 21.85095	21 06 40.98	−14 44 50.6	15.7	N	A77	
29P	2017 09 21.87443	21 06 40.68	−14 44 50.7	14.5	N	2 G40	
29P	2017 09 21.87476	21 06 40.59	−14 44 50.8	15.8	N	107	
29P	2017 09 21.88537	21 06 40.53	−14 44 51.5	14.5	N	2 G40	
29P	2017 09 21.88918	21 06 40.46	−14 44 51.2	14.5	N	2 G40	
29P	2017 09 21.89494	21 06 40.34	−14 44 51.6	15.7	N	A77	
29P	2017 09 21.92896	21 06 39.87	−14 44 52.4	15.1	N	J22	
29P	2017 09 21.93093	21 06 39.79	−14 44 52.1	15.1	N	J22	
29P	2017 09 21.93486	21 06 39.74	−14 44 51.8	15.1	N	J22	
29P	2017 09 21.93751	21 06 39.70	−14 44 52.4	15.7	N	A77	
29P	2017 09 21.98816	21 06 39.05	−14 44 52.3	15.7	N	W96	
29P	2017 09 22.03858	21 06 38.32	−14 44 53.7	15.7	N	W96	
29P	2017 09 22.08333	21 06 37.67	−14 44 54.8	15.6	N	W96	
29P	2017 09 22.13613	21 06 36.86	−14 44 55.7	16.1	N	W85	
29P	2017 09 22.14090	21 06 36.79	−14 44 55.9	16.1	N	W85	
29P	2017 09 22.14687	21 06 36.70	−14 44 56.1	16.1	N	W85	
29P	2017 09 22.79016	21 06 27.89	−14 45 14.8	15.8	N	C10	
29P	2017 09 22.81479	21 06 27.51	−14 45 15.4	16.5	N	K 160	
29P	2017 09 22.81749	21 06 27.48	−14 45 15.4	16.5	N	K 160	
29P	2017 09 22.81904	21 06 27.48	−14 45 15.2	15.5	N	B96	
29P	2017 09 22.82020	21 06 27.44	−14 45 15.5	16.6	N	K 160	
29P	2017 09 22.82558	21 06 27.38	−14 45 15.6	15.6	N	B96	
29P	2017 09 22.82665	21 06 27.37	−14 45 16.0	15.7	N	C10	
29P	2017 09 22.82721	21 06 27.33	−14 45 15.8	15.5	N	B96	
29P	2017 09 22.83212	21 06 27.26	−14 45 16.0	15.5	N	B96	
29P	2017 09 22.83712	21 06 27.21	−14 45 16.2	15.7	N	B96	
29P	2017 09 22.86326	21 06 26.85	−14 45 16.8	15.8	N	C10	
29P	2017 09 22.86763	21 06 26.80	−14 45 16.5	15.1	N	J01	
29P	2017 09 22.87124	21 06 26.75	−14 45 16.5	15.1	N	J01	
29P	2017 09 22.87481	21 06 26.67	−14 45 16.9	15.1	N	J01	
29P	2017 09 23.03365	21 06 24.55	−14 45 18.8	16.5	N	W87	
29P	2017 09 23.03846	21 06 24.49	−14 45 18.9	16.6	N	W87	

29P	2017 09 23.04444	21 06 24.41	−14 45 19.1	16.4	N	W87
29P	2017 09 23.77538	21 06 14.74	−14 45 38.0	15.5	N	K14
29P	2017 09 23.80808	21 06 14.29	−14 45 39.0	15.8	N	B96
29P	2017 09 23.80971	21 06 14.27	−14 45 39.1	15.8	N	B96
29P	2017 09 23.81135	21 06 14.25	−14 45 39.2	15.8	N	B96
29P	2017 09 23.81299	21 06 14.22	−14 45 39.3	15.9	N	B96
29P	2017 09 23.81462	21 06 14.21	−14 45 39.4	15.8	N	B96
29P	2017 09 23.81625	21 06 14.19	−14 45 39.5	15.8	N	B96
29P	2017 09 23.81788	21 06 14.18	−14 45 39.6	15.8	N	B96
29P	2017 09 23.81953	21 06 14.15	−14 45 39.7	15.9	N	B96
29P	2017 09 23.82126	21 06 14.13	−14 45 39.9	15.9	N	B96
29P	2017 09 23.82289	21 06 14.11	−14 45 40.0	15.8	N	B96
29P	2017 09 23.82453	21 06 14.08	−14 45 40.1	15.7	N	B96
29P	2017 09 23.82616	21 06 14.05	−14 45 40.2	16.0	N	B96
29P	2017 09 23.83344	21 06 14.05	−14 45 38.6	16.0	N	K A77
29P	2017 09 23.84027	21 06 13.78	−14 45 38.1	16.7	N	K93
29P	2017 09 23.84151	21 06 13.85	−14 45 38.9	15.8	N	K A77
29P	2017 09 23.84504	21 06 13.72	−14 45 38.0	16.8	N	K93
29P	2017 09 23.84804	21 06 13.75	−14 45 40.7	16.0	N	K A77
29P	2017 09 23.85098	21 06 13.64	−14 45 38.0	16.8	N	K93
29P	2017 09 23.86152	21 06 13.59	−14 45 40.4	15.5	N	K14
29P	2017 09 23.98649	21 06 12.03	−14 45 41.2	15.8	N	W96
29P	2017 09 24.03687	21 06 11.33	−14 45 42.3	15.8	N	W96
29P	2017 09 24.09664	21 06 10.52	−14 45 43.9	15.8	N	W96
29P	2017 09 24.60550	21 06 04.02	−14 45 56.6	12.1	T	Q11
29P	2017 09 24.61120	21 06 03.94	−14 45 56.8			Q11
29P	2017 09 24.62045	21 06 03.82	−14 45 56.6			Q11
29P	2017 09 24.80109	21 06 01.65	−14 46 00.8	15.7	N	B96
29P	2017 09 24.80311	21 06 01.68	−14 46 00.1	15.9	N	A77
29P	2017 09 24.80600	21 06 01.64	−14 46 00.6	15.9	N	B96
29P	2017 09 24.80960	21 06 01.50	−14 45 59.0	16.9	N	K93
29P	2017 09 24.81253	21 06 01.61	−14 46 00.5	15.8	N	B96
29P	2017 09 24.81438	21 06 01.44	−14 45 59.0	17.0	N	K93
29P	2017 09 24.82033	21 06 01.36	−14 45 59.1	17.0	N	K93
29P	2017 09 24.82407	21 06 01.37	−14 46 00.3	16.0	N	B96
29P	2017 09 24.84702	21 06 01.06	−14 46 01.7	15.8	N	C23
29P	2017 09 24.84714	21 06 01.11	−14 46 01.7	16.0	N	A77
29P	2017 09 24.85202	21 06 01.05	−14 46 02.1	16.1	N	K A77
29P	2017 09 24.85675	21 06 00.92	−14 46 02.4	15.7	N	C23
29P	2017 09 24.86246	21 06 00.94	−14 46 02.3	16.3	N	K A77
29P	2017 09 24.86498	21 06 00.83	−14 46 02.5	15.5	N	C23
29P	2017 09 24.88382	21 06 00.62	−14 46 01.6	16.2	N	K A77
29P	2017 09 24.89115	21 06 00.53	−14 46 02.6	16.1	N	A77
29P	2017 09 24.89499	21 06 00.46	−14 46 02.1	16.3	N	K A77
29P	2017 09 24.93373	21 06 00.01	−14 46 04.4	16.0	N	A77
29P	2017 09 25.05920	21 05 58.54	−14 46 06.5	15.9	N	750
29P	2017 09 25.06603	21 05 58.43	−14 46 06.2	15.9	N	750
29P	2017 09 25.53720	21 05 52.63	−14 46 15.0	12.2	T	Q11
29P	2017 09 25.54291	21 05 52.56	−14 46 14.9			Q11
29P	2017 09 25.54858	21 05 52.47	−14 46 15.0			Q11
29P	2017 09 25.85112	21 05 48.98	−14 46 20.6	17.4	N	K97
29P	2017 09 25.87326	21 05 48.72	−14 46 21.3	17.0	N	K97
29P	2017 09 25.87521	21 05 48.67	−14 46 21.6	15.4	N	J01
29P	2017 09 25.87917	21 05 48.65	−14 46 21.4	17.2	N	K97
29P	2017 09 25.88597	21 05 48.55	−14 46 21.8	15.4	N	J01
29P	2017 09 25.89674	21 05 48.44	−14 46 21.9	15.4	N	J01
29P	2017 09 25.89761	21 05 48.43	−14 46 21.7	15.4	N	J38
29P	2017 09 25.90011	21 05 48.43	−14 46 22.1	15.4	N	J38
29P	2017 09 25.90763	21 05 48.33	−14 46 21.0	15.3	N	J38
29P	2017 09 25.92588	21 05 48.06	−14 46 22.0	15.5	N	J22
29P	2017 09 25.93363	21 05 47.99	−14 46 21.5	15.5	N	J22
29P	2017 09 25.98267	21 05 47.50	−14 46 21.2	16.2	N	W96
29P	2017 09 26.03099	21 05 46.91	−14 46 22.5	16.2	N	W96
29P	2017 09 26.07203	21 05 46.39	−14 46 22.9	16.2	N	W96
29P	2017 09 26.14706	21 05 45.44	−14 46 24.0	16.9	N	W85
29P	2017 09 26.15460	21 05 45.35	−14 46 24.1	16.9	N	W85
29P	2017 09 26.16404	21 05 45.23	−14 46 24.2	16.9	N	W85
29P	2017 09 26.89093	21 05 37.18	−14 46 37.5	15.4	N	J38
29P	2017 09 26.89629	21 05 37.04	−14 46 37.9	15.4	N	J38
29P	2017 09 26.90434	21 05 36.99	−14 46 37.8	15.4	N	J38
29P	2017 09 26.94231	21 05 36.45	−14 46 38.6	15.7	N	J22
29P	2017 09 26.95006	21 05 36.43	−14 46 38.6	15.7	N	J22
29P	2017 09 26.98776	21 05 36.13	−14 46 37.6	16.2	N	W96
29P	2017 09 27.02353	21 05 35.73	−14 46 38.3	16.3	N	W96
29P	2017 09 27.06823	21 05 35.20	−14 46 39.0	16.2	N	W96
29P	2017 09 27.31253	21 05 32.52	−14 46 44.0	16.3	T	T08
29P	2017 09 27.32037	21 05 32.43	−14 46 44.1	16.3	T	T08
29P	2017 09 27.32819	21 05 32.34	−14 46 44.4	16.2	T	T08
29P	2017 09 27.33600	21 05 32.24	−14 46 44.3	16.2	T	T08
29P	2017 09 27.79549	21 05 27.46	−14 46 50.9	16.4	N	K A77
29P	2017 09 27.84286	21 05 26.93	−14 46 51.9	15.5	N	J38
29P	2017 09 27.84537	21 05 26.96	−14 46 51.8	15.4	N	J38
29P	2017 09 27.84788	21 05 26.93	−14 46 51.4	15.5	N	J38
29P	2017 09 27.85167	21 05 26.77	−14 46 51.2	16.5	N	K A77
29P	2017 09 27.89567	21 05 26.34	−14 46 52.6	16.7	N	K A77
29P	2017 09 27.93177	21 05 25.96	−14 46 52.5	16.6	N	K A77
29P	2017 09 27.97589	21 05 25.44	−14 46 53.2	15.7	N	J22
29P	2017 09 27.98374	21 05 25.37	−14 46 52.8	15.7	N	J22
29P	2017 09 28.55721	21 05 19.56	−14 47 00.6	12.4	T	Q11
29P	2017 09 28.56719	21 05 19.46	−14 47 00.7			Q11
29P	2017 09 28.57289	21 05 19.39	−14 47 00.7			Q11
29P	2017 09 28.58131	21 05 19.32	−14 47 00.2			900
29P	2017 09 28.58845	21 05 19.24	−14 47 00.4	11.9	T	900
29P	2017 09 28.82849	21 05 17.02	−14 47 02.6	16.5	N	K A77
29P	2017 09 28.87254	21 05 16.56	−14 47 03.5	16.4	N	K A77
29P	2017 09 28.91066	21 05 16.11	−14 47 03.6	15.8	N	J22
29P	2017 09 28.91307	21 05 16.08	−14 47 04.0	16.4	N	K A77
29P	2017 09 28.91463	21 05 16.08	−14 47 03.8	15.8	N	J22
29P	2017 09 28.91661	21 05 16.06	−14 47 03.8	15.8	N	J22
29P	2017 09 29.78744	21 05 07.92	−14 47 11.1	16.6	N	K A77
29P	2017 09 29.79708	21 05 07.75	−14 47 11.9	17.0	N	K A71
29P	2017 09 29.80891	21 05 07.62	−14 47 12.4	17.0	N	K A71
29P	2017 09 29.82075	21 05 07.53	−14 47 12.6	17.1	N	K A71
29P	2017 09 29.85098	21 05 07.32	−14 47 12.8	16.3	N	K A77
29P	2017 09 29.90598	21 05 06.69	−14 47 13.7	16.5	N	K A77
29P	2017 09 29.91345	21 05 06.66	−14 47 13.4	16.4	N	K A77

29P	2017 09 29.91501	21 05 06.65	−14 47 13.3	16.4	N	K	A77
29P	2017 09 29.92173	21 05 06.64	−14 47 12.8	16.5	N	K	A77

31P/Schwassmann-Wachmann

31P	2017 08 17.27897	03 01 54.02	+12 11 27.8	20.8	N		KW96
31P	2017 08 17.31027	03 01 54.66	+12 11 30.1	20.4	N		KW96
31P	2017 08 19.34381	03 02 36.08	+12 12 19.4	20.3	N		KW96
31P	2017 08 19.35556	03 02 36.22	+12 12 19.5	20.8	N		KW96

38P/Stephan-Oterma

38P	2017 07 28.70790	22 01 49.11	−33 11 21.9			1	Q62
38P	2017 07 28.71125	22 01 48.97	−33 11 23.0			1	Q62
38P	2017 07 28.71459	22 01 48.83	−33 11 24.4	21.2	T	1	Q62

41P/Tuttle-Giacobini-Kresák

41P	2017 01 27.13361	09 30 26.89	+09 49 35.9	15.0	T		J04
41P	2017 01 27.14530	09 30 27.02	+09 49 45.3	15.5	T		J04
41P	2017 01 27.15699	09 30 27.11	+09 49 54.8	15.7	T		J04
41P	2017 01 27.16868	09 30 27.18	+09 50 04.5	15.0	T		J04
41P	2017 03 20.41723	10 53 44.37	+52 40 13.8	8.5	T		D95
41P	2017 03 20.42379	10 53 47.32	+52 40 47.9				D95
41P	2017 03 20.42598	10 53 48.30	+52 40 59.3				D95
41P	2017 05 29.69870	18 30 26.14	+16 23 24.8	14.3	N	K	Q19
41P	2017 05 29.70218	18 30 26.03	+16 23 15.6	14.1	N	K	Q19
41P	2017 05 29.70565	18 30 25.92	+16 23 06.9	14.3	N	K	Q19
41P	2017 05 29.70912	18 30 25.85	+16 22 58.2	14.1	N	K	Q19
41P	2017 05 29.71259	18 30 25.65	+16 22 49.0	14.5	N	K	Q19
41P	2017 05 29.71606	18 30 25.56	+16 22 40.7	14.1	N	K	Q19
41P	2017 05 29.72127	18 30 25.40	+16 22 27.6	14.1	N	K	Q19
41P	2017 05 29.72648	18 30 25.22	+16 22 14.6	14.1	N	K	Q19
41P	2017 06 04.60833	18 27 46.02	+12 20 15.2				349
41P	2017 06 04.61336	18 27 45.83	+12 20 03.0				349
41P	2017 06 04.63676	18 27 44.87	+12 19 06.9				349
41P	2017 06 04.64196	18 27 44.66	+12 18 54.4	10.2	T		349
41P	2017 06 23.56021	18 16 21.89	+00 43 20.7	12.5	T		D95
41P	2017 06 23.56606	18 16 21.65	+00 43 09.4				D95
41P	2017 06 23.56752	18 16 21.59	+00 43 06.3				D95
41P	2017 07 02.91420	18 12 00.76	−04 00 21.2	15.7	N		J22
41P	2017 07 02.91598	18 12 00.72	−04 00 24.3	15.7	N		J22
41P	2017 07 02.91772	18 12 00.70	−04 00 27.7	15.7	N		J22
41P	2017 07 03.93300	18 11 39.10	−04 28 34.2	17.0	N	K	160
41P	2017 07 03.93547	18 11 39.05	−04 28 38.2	17.1	N	K	160
41P	2017 07 03.93794	18 11 39.01	−04 28 42.1	17.2	N	K	160
41P	2017 07 04.88306	18 11 21.18	−04 54 19.5	16.8	N	K	A71
41P	2017 07 04.88884	18 11 21.05	−04 54 29.0	16.6	N	K	A71
41P	2017 07 04.89459	18 11 20.90	−04 54 38.6	16.7	N	K	A71
41P	2017 07 05.93884	18 11 02.49	−05 22 22.8	16.8	N	K	160
41P	2017 07 05.94114	18 11 02.44	−05 22 26.5	17.0	N	K	160
41P	2017 07 05.94362	18 11 02.41	−05 22 30.2	16.8	N	K	160
41P	2017 07 05.94780	18 11 02.42	−05 22 36.7	16.3	N		B74
41P	2017 07 05.95434	18 11 02.28	−05 22 47.1	16.3	N		B74
41P	2017 07 05.96132	18 11 02.15	−05 22 57.4	16.4	N		B74
41P	2017 07 06.36752	18 10 55.76	−05 33 31.3	16.7	T		T05
41P	2017 07 06.38871	18 10 55.30	−05 34 04.5	16.7	T		T05
41P	2017 07 06.39942	18 10 55.04	−05 34 21.1	16.7	T		T05
41P	2017 07 07.54381	18 10 38.15	−06 03 53.0				349
41P	2017 07 07.54686	18 10 38.08	−06 03 57.8	14.5	T		349
41P	2017 07 08.98666	18 10 19.30	−06 40 08.3	17.1	N	K	B96
41P	2017 07 08.99655	18 10 19.10	−06 40 22.5	17.4	N	K	B96
41P	2017 07 11.06787	18 09 58.57	−07 30 21.6	17.0	N	9	G40
41P	2017 07 11.07448	18 09 58.50	−07 30 31.4	17.0	N	9	G40
41P	2017 07 11.42811	18 09 55.91	−07 38 49.2	17.1	T		T05
41P	2017 07 11.43712	18 09 55.77	−07 39 01.7	17.1	T		T05
41P	2017 07 11.44605	18 09 55.64	−07 39 14.3	17.1	T		T05
41P	2017 07 11.98428	18 09 52.27	−07 51 48.7	16.3	N		J22
41P	2017 07 11.98606	18 09 52.21	−07 51 51.5	16.3	N		J22
41P	2017 07 12.95712	18 09 46.56	−08 14 10.7	16.9	N		B96
41P	2017 07 12.95875	18 09 46.55	−08 14 13.0	16.9	N		B96
41P	2017 07 12.96038	18 09 46.55	−08 14 15.7	17.6	N		B96
41P	2017 07 12.96201	18 09 46.54	−08 14 17.9	16.2	N		B96
41P	2017 07 12.96293	18 09 46.50	−08 14 18.6	15.8	N		C23
41P	2017 07 12.96366	18 09 46.53	−08 14 19.6	16.2	N		B96
41P	2017 07 12.96529	18 09 46.51	−08 14 22.3	17.1	N		B96
41P	2017 07 12.96668	18 09 46.48	−08 14 24.1	16.1	N		C23
41P	2017 07 12.96692	18 09 46.49	−08 14 24.5	17.3	N		B96
41P	2017 07 12.96967	18 09 46.41	−08 14 28.5	15.8	N		C23
41P	2017 07 13.25950	18 09 44.61	−08 20 44.3	16.7	N		W96
41P	2017 07 13.29297	18 09 44.36	−08 21 29.7	16.6	N		W96
41P	2017 07 13.41712	18 09 44.35	−08 24 28.5	16.9	T		T08
41P	2017 07 13.42556	18 09 44.28	−08 24 39.9	16.8	T		T08
41P	2017 07 13.43393	18 09 44.20	−08 24 51.0	16.9	T		T08
41P	2017 07 13.93873	18 09 42.69	−08 36 11.8	15.8	N		J01
41P	2017 07 13.94808	18 09 42.65	−08 36 24.7	15.7	N		J01
41P	2017 07 13.97360	18 09 42.47	−08 36 58.7	15.8	N		J01
41P	2017 07 14.51632	18 09 41.34	−08 48 53.9	16.3	T		372
41P	2017 07 14.52031	18 09 41.27	−08 48 59.1				372
41P	2017 07 15.42137	18 09 39.41	−09 08 30.2	17.4	T		T05
41P	2017 07 15.43041	18 09 39.34	−09 08 42.2	17.5	T		T05
41P	2017 07 15.43960	18 09 39.33	−09 08 53.3	17.4	T		T05
41P	2017 07 15.44855	18 09 39.23	−09 09 04.6	17.3	T		T05
41P	2017 07 16.52986	18 09 40.06	−09 32 03.3	16.5	T		372
41P	2017 07 16.53646	18 09 40.03	−09 32 11.6				372
41P	2017 07 16.89508	18 09 40.55	−09 39 40.5	16.9	N		C86
41P	2017 07 16.89765	18 09 40.50	−09 39 45.5	16.8	N		C86
41P	2017 07 18.09096	18 09 43.94	−10 03 55.8	17.6	N	10	W88
41P	2017 07 18.19976	18 09 43.85	−10 06 07.5	17.7	N	10	W88
41P	2017 07 18.57733	18 09 45.68	−10 13 57.6	13.9	T		349
41P	2017 07 18.59528	18 09 45.66	−10 14 18.8				349
41P	2017 07 18.87803	18 09 47.17	−10 19 58.8	16.0	T		585
41P	2017 07 18.87875	18 09 47.11	−10 19 59.0	16.2	T		585
41P	2017 07 18.87945	18 09 47.17	−10 20 00.8	16.1	T		585
41P	2017 07 18.88016	18 09 47.13	−10 20 02.4	16.8	N		585
41P	2017 07 18.88087	18 09 47.21	−10 20 02.0	17.0	N		585
41P	2017 07 18.88158	18 09 47.16	−10 20 02.9	16.7	N		585
41P	2017 07 18.88512	18 09 47.15	−10 20 08.1	16.9	N		585
41P	2017 07 18.88583	18 09 47.16	−10 20 08.0	16.6	N		585
41P	2017 07 18.88654	18 09 47.12	−10 20 08.6	16.2	N		585

41P	2017 07 20.98834	18 10 01.74	−11 00 48.2	16.6	N		212
41P	2017 07 20.99123	18 10 01.80	−11 00 53.2	16.5	N		212
41P	2017 07 20.99410	18 10 01.77	−11 00 55.5	16.6	N		212
41P	2017 07 21.97664	18 10 11.20	−11 19 15.2	16.6	N		212
41P	2017 07 21.97951	18 10 11.24	−11 19 19.1	16.6	N		212
41P	2017 07 21.98096	18 10 11.25	−11 19 20.6	16.7	N		212
41P	2017 07 21.98240	18 10 11.27	−11 19 22.2	16.8	N		212
41P	2017 07 21.98527	18 10 11.28	−11 19 26.1	16.7	N		212
41P	2017 07 24.57733	18 10 43.91	−12 05 34.6	17.7	N		Q65
41P	2017 07 24.59044	18 10 44.07	−12 05 48.7	17.3	N		Q65
41P	2017 07 24.60322	18 10 44.20	−12 06 01.7	17.5	N		Q65
41P	2017 07 25.39988	18 10 56.82	−12 19 53.0	17.2	T		T08
41P	2017 07 25.40871	18 10 56.89	−12 20 01.1	17.1	T		T08
41P	2017 07 25.41809	18 10 56.98	−12 20 10.6	17.2	T		T08
41P	2017 07 25.42706	18 10 57.05	−12 20 20.5	17.0	T		T08
41P	2017 07 27.98928	18 11 44.36	−13 02 34.9	16.8	N	K	C23
41P	2017 07 27.99361	18 11 44.35	−13 02 39.5	17.2	N	K	C23
41P	2017 07 27.99793	18 11 44.41	−13 02 43.8	17.2	N	K	C23
41P	2017 07 29.35674	18 12 14.05	−13 23 57.8	17.8	T		T08
41P	2017 07 29.36520	18 12 14.18	−13 24 06.0	17.8	T		T08
41P	2017 07 29.37361	18 12 14.39	−13 24 11.7	17.7	T		T08
41P	2017 07 29.38210	18 12 14.59	−13 24 22.4	17.9	T		T08
41P	2017 07 30.01263	18 12 29.12	−13 34 01.1	17.4	N		J22
41P	2017 07 30.01428	18 12 29.13	−13 34 02.7	17.4	N		J22
41P	2017 07 30.01752	18 12 29.18	−13 34 05.4	17.4	N		J22

43P/Wolf-Harrington

43P	2017 02 08.03110	12 29 25.00	−27 15 51.1	17.8	N		K92
43P	2017 02 08.04322	12 29 24.72	−27 15 54.0	17.8	N		K92
43P	2017 02 08.05988	12 29 24.34	−27 15 58.1	17.8	N		K92
43P	2017 02 08.90896	12 29 05.83	−27 19 10.0	17.7	N		K92
43P	2017 02 08.92260	12 29 05.49	−27 19 13.5	17.9	N		K92
43P	2017 02 08.93773	12 29 05.13	−27 19 17.0	17.7	N		K92
43P	2017 03 04.62269	12 12 07.60	−27 09 45.2	15.8	T	K	D95
43P	2017 03 04.62489	12 12 07.39	−27 09 44.4			K	D95
43P	2017 03 04.62708	12 12 07.23	−27 09 43.4			K	D95

45P/Honda-Mrkos-Pajdušáková

45P	2017 03 20.45276	10 35 26.19	+21 23 59.5	11.0	T		D95
45P	2017 03 20.45714	10 35 26.07	+21 23 55.9				D95
45P	2017 03 20.46226	10 35 25.84	+21 23 53.1				D95

47P/Ashbrook-Jackson

47P	2017 07 04.10113	01 16 52.69	+08 57 01.8	17.7	N	K	160
47P	2017 07 04.10322	01 16 52.81	+08 57 02.9	17.9	N	K	160
47P	2017 07 04.10531	01 16 52.94	+08 57 03.7	17.9	N	K	160
47P	2017 07 05.45599	01 18 07.80	+09 09 37.6			5	U69
47P	2017 07 05.45915	01 18 07.99	+09 09 39.4	17.4	T	5	U69
47P	2017 07 07.04688	01 19 34.43	+09 24 17.0	17.8	N	K	160
47P	2017 07 07.04928	01 19 34.51	+09 24 18.9	17.6	N	K	160
47P	2017 07 07.05167	01 19 34.61	+09 24 20.3	17.3	N	K	160
47P	2017 07 08.76888	01 21 05.87	+09 39 59.5	17.8	N	K	Q21
47P	2017 07 08.77417	01 21 06.18	+09 40 04.4	18.3	N	K	Q21
47P	2017 07 09.07369	01 21 21.86	+09 42 47.2	17.1	N	K	160
47P	2017 07 09.07591	01 21 22.02	+09 42 49.8	17.2	N	K	160
47P	2017 07 09.07813	01 21 22.12	+09 42 51.0	17.0	N	K	160
47P	2017 07 10.98396	01 23 00.39	+10 00 00.9	17.0	N	K	585
47P	2017 07 10.98468	01 23 00.43	+10 00 01.3	17.1	N	K	585
47P	2017 07 10.98539	01 23 00.48	+10 00 01.9	17.3	N	K	585
47P	2017 07 10.98610	01 23 00.55	+10 00 02.8	17.5	N	K	585
47P	2017 07 10.98752	01 23 00.62	+10 00 04.5			K	585
47P	2017 07 10.98895	01 23 00.65	+10 00 04.4	17.4	N	K	585
47P	2017 07 10.98967	01 23 00.70	+10 00 05.2	17.5	N	K	585
47P	2017 07 10.99294	01 23 00.86	+10 00 06.4			K	585
47P	2017 07 10.99519	01 23 00.98	+10 00 07.8			K	585
47P	2017 07 10.99632	01 23 01.01	+10 00 08.3	17.5	N	K	585
47P	2017 07 15.05361	01 26 20.66	+10 36 06.6	17.1	N	K	160
47P	2017 07 15.05596	01 26 20.76	+10 36 08.3	17.4	N	K	160
47P	2017 07 15.05832	01 26 20.82	+10 36 10.1	17.2	N	K	160
47P	2017 07 17.07369	01 27 54.84	+10 53 41.6	18.0	N	K	160
47P	2017 07 17.07592	01 27 54.94	+10 53 42.3	18.1	N	K	160
47P	2017 07 17.07814	01 27 55.10	+10 53 43.2	18.0	N	K	160
47P	2017 07 18.01179	01 28 37.45	+11 01 46.0	17.2	N	K	585
47P	2017 07 18.01250	01 28 37.49	+11 01 45.9	17.3	N	K	585
47P	2017 07 18.01321	01 28 37.52	+11 01 46.1	17.3	N	K	585
47P	2017 07 18.01392	01 28 37.44	+11 01 46.8	17.0	N	K	585
47P	2017 07 18.01463	01 28 37.52	+11 01 47.6	16.9	N	K	585
47P	2017 07 18.01534	01 28 37.53	+11 01 47.2	17.2	N	K	585
47P	2017 07 18.01604	01 28 37.54	+11 01 47.6	17.3	N	K	585
47P	2017 07 18.01675	01 28 37.58	+11 01 47.4	19.3	N	K	585
47P	2017 07 18.68830	01 29 07.63	+11 07 35.3	16.1	T		349
47P	2017 07 18.69720	01 29 08.07	+11 07 39.3				349
47P	2017 07 19.06553	01 29 24.35	+11 10 48.0	17.5	N	K	160
47P	2017 07 19.06802	01 29 24.50	+11 10 48.9	18.1	N	K	160
47P	2017 07 19.07050	01 29 24.56	+11 10 49.9	17.3	N	K	160
47P	2017 07 19.76910	01 29 55.00	+11 16 46.9			K	367
47P	2017 07 19.77072	01 29 55.09	+11 16 47.3			K	367
47P	2017 07 19.77193	01 29 55.15	+11 16 48.0	16.8	T	K	367
47P	2017 07 20.20262	01 30 13.80	+11 20 27.3	17.5	N		J22
47P	2017 07 20.20422	01 30 13.88	+11 20 28.1	17.5	N		J22
47P	2017 07 20.20897	01 30 14.10	+11 20 30.2	17.5	N		J22
47P	2017 07 23.42696	01 32 27.40	+11 47 24.4	17.4	N		H47
47P	2017 07 23.43211	01 32 27.60	+11 47 27.0	17.2	N		H47
47P	2017 07 25.06346	01 33 31.48	+12 00 50.3	17.3	N		J01
47P	2017 07 25.07443	01 33 31.90	+12 00 55.5	17.4	N		J01
47P	2017 07 25.11480	01 33 33.33	+12 01 15.7	17.3	N		J01
47P	2017 07 26.67530	01 34 31.85	+12 13 54.4	16.5	T		D95
47P	2017 07 26.67853	01 34 31.98	+12 13 56.1				D95
47P	2017 07 26.68286	01 34 32.14	+12 13 57.8				D95
47P	2017 07 28.11420	01 35 23.51	+12 25 25.6	15.2	N	K	C23
47P	2017 07 28.11645	01 35 23.57	+12 25 27.0	16.7	N	K	C23
47P	2017 07 28.11869	01 35 23.57	+12 25 27.1	16.7	N	K	C23
47P	2017 07 29.03106	01 35 55.33	+12 32 41.8	17.9	N	K	A71
47P	2017 07 29.04121	01 35 55.69	+12 32 46.5	18.1	N	K	A71
47P	2017 07 29.27485	01 36 03.54	+12 34 40.7	17.4	N		W96
47P	2017 07 29.30828	01 36 04.71	+12 34 57.4	17.4	N		W96
47P	2017 07 30.22299	01 36 35.25	+12 42 05.3	17.5	N		J22

47P	2017 07 30.22622	01 36 35.37	+12 42 06.4	17.5	N	J22	47P	2017 08 17.02478	01 43 18.40	+14 49 54.6	18.4	N	K	C47
47P	2017 07 30.22944	01 36 35.45	+12 42 08.2	17.5	N	J22	47P	2017 08 17.02836	01 43 18.46	+14 49 56.3	18.5	N	K	C47
47P	2017 07 31.06181	01 37 02.60	+12 48 35.8	17.4	N	K K02	47P	2017 08 17.03194	01 43 18.52	+14 49 57.3	18.0	N	K	C47
47P	2017 07 31.06691	01 37 02.82	+12 48 38.8	18.0	N	K K02	47P	2017 08 17.03552	01 43 18.55	+14 49 58.7	18.4	N	K	C47
47P	2017 07 31.07200	01 37 02.89	+12 48 41.1	18.0	N	K K02	47P	2017 08 18.36376	01 43 32.62	+14 58 31.4	17.4	N	K	H47
47P	2017 08 01.03073	01 37 33.07	+12 56 05.4	17.3	N	K I81	47P	2017 08 18.37720	01 43 32.70	+14 58 36.9	17.1	N	K	H47
47P	2017 08 01.03428	01 37 33.19	+12 56 06.8	17.3	N	K I81	47P	2017 08 18.40414	01 43 32.91	+14 58 46.9	17.3	N	K	H47
47P	2017 08 01.03782	01 37 33.30	+12 56 08.1	17.3	N	K I81	47P	2017 08 18.58792	01 43 34.74	+14 59 58.2	18.2	T		T05
47P	2017 08 01.19673	01 37 38.23	+12 57 23.6	17.9	N	9 G40	47P	2017 08 18.58980	01 43 34.72	+14 59 58.9	18.4	T		T05
47P	2017 08 01.20926	01 37 38.60	+12 57 29.5	17.8	N	9 G40	47P	2017 08 18.59331	01 43 34.71	+14 59 59.7	18.1	T		T05
47P	2017 08 02.15550	01 38 07.29	+13 04 44.1	18.5	N	16G40	47P	2017 08 18.59380	01 43 34.71	+14 59 59.8	18.2	T		T05
47P	2017 08 02.17769	01 38 07.93	+13 04 54.4	18.7	N	16G40	47P	2017 08 18.60119	01 43 34.74	+15 00 03.0	18.3	T		T05
47P	2017 08 02.19303	01 38 08.36	+13 05 01.3	18.1	N	16G40	47P	2017 08 18.60266	01 43 34.86	+15 00 03.0	18.3	T		T05
47P	2017 08 03.59874	01 38 48.77	+13 15 39.8	17.6	T	T08	47P	2017 08 18.60518	01 43 34.80	+15 00 04.7	18.4	T		T05
47P	2017 08 03.60843	01 38 49.07	+13 15 44.7	17.5	T	T08	47P	2017 08 18.61287	01 43 34.80	+15 00 06.9	18.3	T		T05
47P	2017 08 03.61788	01 38 49.46	+13 15 49.1	17.8	T	T08	47P	2017 08 18.61381	01 43 34.85	+15 00 07.5	18.2	T		T05
47P	2017 08 03.62794	01 38 49.62	+13 15 53.5	17.7	T	T08	47P	2017 08 18.61678	01 43 34.86	+15 00 09.1	18.2	T		T05
47P	2017 08 05.10167	01 39 29.97	+13 26 52.7	17.5	N	J01	47P	2017 08 18.62597	01 43 35.01	+15 00 12.6	18.4	T		T05
47P	2017 08 05.11650	01 39 30.35	+13 26 59.1	17.5	N	J01	47P	2017 08 18.62896	01 43 35.04	+15 00 12.9	18.3	T		T05
47P	2017 08 05.12020	01 39 30.46	+13 27 01.1	17.5	N	J01	47P	2017 08 18.97707	01 43 38.48	+15 02 24.4	17.4	N	K	160
47P	2017 08 05.98863	01 39 53.02	+13 33 25.0	17.5	N	B96	47P	2017 08 18.97939	01 43 38.52	+15 02 25.4	17.5	N	K	160
47P	2017 08 05.99027	01 39 53.04	+13 33 25.6	17.7	N	B96	47P	2017 08 18.98171	01 43 38.58	+15 02 26.0	17.6	N	K	160
47P	2017 08 05.99190	01 39 53.05	+13 33 26.9	17.5	N	B96	47P	2017 08 19.27725	01 43 40.97	+15 04 22.3	17.8	N		W96
47P	2017 08 05.99353	01 39 53.07	+13 33 27.4	18.1	N	B96	47P	2017 08 19.30589	01 43 41.24	+15 04 33.3	17.5	N		W96
47P	2017 08 05.99516	01 39 53.11	+13 33 27.9	17.7	N	B96	47P	2017 08 20.97665	01 43 53.63	+15 14 50.3	17.7	N	K	A71
47P	2017 08 05.99679	01 39 53.18	+13 33 28.7	18.4	N	B96	47P	2017 08 20.99115	01 43 53.58	+15 14 55.7	17.9	N	K	A71
47P	2017 08 07.07325	01 40 19.72	+13 41 21.4	17.2	N	K C23	47P	2017 08 21.00564	01 43 53.73	+15 15 01.3	17.6	N	K	A71
47P	2017 08 07.07614	01 40 19.70	+13 41 22.6	16.2	N	K C23	47P	2017 08 21.04635	01 43 53.97	+15 15 15.5	18.0	N	K	160
47P	2017 08 07.08047	01 40 19.93	+13 41 24.6	17.2	N	K C23	47P	2017 08 21.04871	01 43 53.99	+15 15 17.5	17.9	N	K	160
47P	2017 08 14.59962	01 42 46.38	+14 33 58.1	18.1	T	T05	47P	2017 08 21.05107	01 43 54.00	+15 15 18.4	17.8	N	K	160
47P	2017 08 14.60550	01 42 46.45	+14 34 00.0	17.8	T	T05	47P	2017 08 21.33928	01 43 55.68	+15 17 04.7	17.4	N	K	H47
47P	2017 08 14.60762	01 42 46.47	+14 34 00.5	17.8	T	T05	47P	2017 08 21.35482	01 43 55.73	+15 17 10.0	17.4	N	K	H47
47P	2017 08 14.60813	01 42 46.51	+14 34 00.6	17.5	T	T05	47P	2017 08 21.37964	01 43 55.80	+15 17 19.3	17.4	N	K	H47
47P	2017 08 16.01179	01 43 06.08	+14 43 18.2	18.2	N	K 160	47P	2017 08 22.35940	01 44 00.77	+15 23 15.1	17.4	N		H47
47P	2017 08 16.01416	01 43 06.12	+14 43 18.8	18.1	N	K 160	47P	2017 08 22.36597	01 44 00.76	+15 23 17.5	17.3	N		H47
47P	2017 08 16.01652	01 43 06.16	+14 43 19.8	18.1	N	K 160	47P	2017 08 22.39789	01 44 00.86	+15 23 29.0	17.5	N		H47
47P	2017 08 16.03028	01 43 06.28	+14 43 24.6	17.2	N	K C23	47P	2017 08 23.00814	01 44 03.28	+15 27 06.6	17.0	N	K	160
47P	2017 08 16.03317	01 43 06.26	+14 43 25.8	17.0	N	K C23	47P	2017 08 23.01062	01 44 03.29	+15 27 07.5	17.3	N	K	160
47P	2017 08 16.03605	01 43 06.31	+14 43 27.6	17.2	N	K C23	47P	2017 08 23.01309	01 44 03.33	+15 27 08.3	17.7	N	K	160
47P	2017 08 16.03894	01 43 06.30	+14 43 27.9	17.1	N	K C23	47P	2017 08 23.35142	01 44 04.27	+15 29 09.4	17.2	N		H47
47P	2017 08 16.06488	01 43 06.63	+14 43 37.5	17.9	N	K K02	47P	2017 08 23.35991	01 44 04.33	+15 29 12.8	17.3	N		H47
47P	2017 08 16.07262	01 43 06.80	+14 43 41.7	17.7	N	K K02	47P	2017 08 23.36904	01 44 04.35	+15 29 15.6	17.2	N		H47
47P	2017 08 16.57388	01 43 12.94	+14 47 00.2	17.8	T	T08	47P	2017 08 24.04140	01 44 06.01	+15 33 11.6	18.2	N	K	160
47P	2017 08 16.57673	01 43 13.01	+14 47 01.4	17.9	T	T08	47P	2017 08 24.04349	01 44 06.07	+15 33 12.7	18.2	N	K	160
47P	2017 08 16.58411	01 43 13.10	+14 47 04.4	17.9	T	T08	47P	2017 08 24.04572	01 44 06.08	+15 33 13.7	18.3	N	K	160
47P	2017 08 16.58669	01 43 13.15	+14 47 05.4	17.9	T	T08	47P	2017 08 25.12176	01 44 07.31	+15 39 28.1	17.3	N	K	A77
47P	2017 08 16.59386	01 43 13.18	+14 47 07.5	17.8	T	T08	47P	2017 08 25.12781	01 44 07.30	+15 39 30.3	17.3	N	K	A77
47P	2017 08 16.59649	01 43 13.17	+14 47 09.0	17.7	T	T08	47P	2017 08 25.13387	01 44 07.28	+15 39 32.2	17.2	N	K	A77
47P	2017 08 16.60382	01 43 13.24	+14 47 12.1	17.8	T	T08	47P	2017 08 25.20877	01 44 07.28	+15 39 58.5	17.2	N		J22
47P	2017 08 16.98435	01 43 17.98	+14 49 39.2	17.2	N	K 160	47P	2017 08 25.21455	01 44 07.25	+15 40 00.6	17.2	N		J22
47P	2017 08 16.98671	01 43 18.01	+14 49 40.1	18.2	N	K 160	47P	2017 08 25.99766	01 44 07.16	+15 44 23.8	17.4	N	K	A71
47P	2017 08 16.98908	01 43 18.05	+14 49 41.2	18.1	N	K 160	47P	2017 08 26.00740	01 44 07.13	+15 44 26.9	17.4	N	K	A71
47P	2017 08 17.01547	01 43 18.32	+14 49 50.3	18.4	N	K C47	47P	2017 08 26.01715	01 44 07.14	+15 44 30.6	17.4	N	K	A71

47P	2017 08 26.59467	01 44 06.29	+15 47 49.8	17.5	T	T05
47P	2017 08 26.60416	01 44 06.45	+15 47 51.6			D95
47P	2017 08 26.61063	01 44 06.48	+15 47 53.2			D95
47P	2017 08 26.61434	01 44 06.25	+15 47 56.4	17.6	T	T05
47P	2017 08 26.61495	01 44 06.46	+15 47 55.0	16.4	T	D95
47P	2017 08 26.62117	01 44 06.22	+15 47 58.9	17.7	T	T05
47P	2017 08 26.63137	01 44 06.20	+15 48 02.1	17.9	T	T05
47P	2017 08 28.07225	01 44 02.61	+15 55 58.8	17.2	N	J22
47P	2017 08 28.07610	01 44 02.57	+15 55 59.9	17.2	N	J22
47P	2017 08 28.07997	01 44 02.56	+15 56 01.3	17.2	N	J22
47P	2017 08 28.98869	01 43 58.56	+16 00 54.0	16.8	N	C23
47P	2017 08 28.99446	01 43 58.46	+16 00 57.3	16.7	N	C23
47P	2017 08 29.00023	01 43 58.44	+16 00 58.0	16.7	N	C23
47P	2017 08 29.00963	01 43 58.42	+16 01 00.0	17.2	N	K Z80
47P	2017 08 29.01424	01 43 58.43	+16 01 02.7	16.9	N	K Z80
47P	2017 08 29.01885	01 43 58.34	+16 01 03.0	17.1	N	K Z80
47P	2017 08 29.07531	01 43 58.14	+16 01 23.5			16G40
47P	2017 08 29.08643	01 43 57.93	+16 01 25.0	16.4	N	I81
47P	2017 08 29.08998	01 43 57.94	+16 01 26.4	17.3	N	K I81
47P	2017 08 29.09353	01 43 57.96	+16 01 27.8	16.3	N	I81
47P	2017 08 29.12025	01 43 57.88	+16 01 37.9	17.5	N	16G40
47P	2017 08 29.15652	01 43 57.62	+16 01 49.5	17.6	N	16G40
47P	2017 08 29.96896	01 43 52.97	+16 06 03.3	17.4	N	K A71
47P	2017 08 29.97870	01 43 52.90	+16 06 06.4	17.4	N	K A71
47P	2017 08 29.98028	01 43 52.89	+16 06 09.7	17.6	N	K77
47P	2017 08 29.98744	01 43 52.87	+16 06 11.7	17.5	N	K77
47P	2017 08 29.98845	01 43 52.83	+16 06 09.6	17.4	N	K A71
47P	2017 08 29.99819	01 43 52.78	+16 06 15.1	17.6	N	K77
47P	2017 08 29.99820	01 43 52.77	+16 06 12.7	17.4	N	K A71
47P	2017 08 30.64540	01 43 48.33	+16 09 38.5			900
47P	2017 08 30.65255	01 43 48.26	+16 09 40.9	16.2	T	900
47P	2017 08 31.97607	01 43 37.28	+16 16 25.0	17.6	N	C10
47P	2017 08 31.98672	01 43 37.19	+16 16 28.7	17.7	N	C10
47P	2017 09 01.03583	01 43 36.70	+16 16 43.9	17.6	N	C10
47P	2017 09 01.76759	01 43 29.40	+16 20 23.6			K 367
47P	2017 09 01.77023	01 43 29.37	+16 20 24.3	16.0	T	K 367
47P	2017 09 02.00851	01 43 27.07	+16 21 34.2	17.1	N	I72
47P	2017 09 02.02295	01 43 26.86	+16 21 37.8	16.8	N	I81
47P	2017 09 02.02437	01 43 26.83	+16 21 38.4	16.6	N	I81
47P	2017 09 02.02607	01 43 26.78	+16 21 38.6	16.8	N	I81
47P	2017 09 02.05545	01 43 26.51	+16 21 48.1	17.2	N	I72
47P	2017 09 02.10044	01 43 25.95	+16 22 01.8	17.2	N	I72
47P	2017 09 02.67760	01 43 19.46	+16 24 50.8	17.0	N	K Q21
47P	2017 09 02.68291	01 43 19.40	+16 24 52.3	17.3	N	K Q21
47P	2017 09 02.69136	01 43 19.32	+16 24 54.8	17.3	N	K Q21
47P	2017 09 03.04701	01 43 15.22	+16 26 38.2	17.2	N	K02
47P	2017 09 03.05322	01 43 15.10	+16 26 38.8	17.2	N	K02
47P	2017 09 03.05568	01 43 14.93	+16 26 38.6	16.7	N	I81
47P	2017 09 03.05944	01 43 15.06	+16 26 40.5	17.3	N	K02
47P	2017 09 03.06364	01 43 14.88	+16 26 41.7	16.7	N	I81
47P	2017 09 03.06933	01 43 14.78	+16 26 43.3	16.7	N	I81
47P	2017 09 05.00999	01 42 48.65	+16 35 50.9	16.6	N	I81
47P	2017 09 05.01421	01 42 48.63	+16 35 52.7	16.4	N	I81
47P	2017 09 05.02055	01 42 48.52	+16 35 54.6	16.5	N	I81
47P	2017 09 11.54088	01 40 42.04	+17 03 24.3	17.2	T	T05
47P	2017 09 11.54669	01 40 41.93	+17 03 25.9	17.6	T	T05
47P	2017 09 11.55303	01 40 41.75	+17 03 27.3	16.7	T	T05
47P	2017 09 11.56053	01 40 41.55	+17 03 29.2	17.0	T	T05
47P	2017 09 12.01496	01 40 30.64	+17 05 10.2	16.8	N	585
47P	2017 09 12.01567	01 40 30.60	+17 05 10.6	16.8	N	585
47P	2017 09 12.01637	01 40 30.63	+17 05 10.7	16.5	N	585
47P	2017 09 12.01708	01 40 30.63	+17 05 11.1	16.7	N	585
47P	2017 09 12.01779	01 40 30.58	+17 05 10.3	16.6	N	585
47P	2017 09 12.01850	01 40 30.51	+17 05 12.1	16.8	N	585
47P	2017 09 12.01923	01 40 30.53	+17 05 11.6	17.0	N	585
47P	2017 09 12.01994	01 40 30.52	+17 05 12.0	16.7	N	585
47P	2017 09 12.02135	01 40 30.47	+17 05 12.2	16.6	N	585
47P	2017 09 12.02277	01 40 30.46	+17 05 12.4	16.6	N	585
47P	2017 09 12.02348	01 40 30.48	+17 05 12.2	16.6	N	585
47P	2017 09 12.02419	01 40 30.41	+17 05 12.9	16.8	N	585
47P	2017 09 12.02489	01 40 30.34	+17 05 12.8	16.8	N	585
47P	2017 09 12.03183	01 40 30.32	+17 05 13.8	17.4	N	K K02
47P	2017 09 12.03445	01 40 30.21	+17 05 13.9	16.2	N	I81
47P	2017 09 12.03593	01 40 30.17	+17 05 14.6	16.6	N	I81
47P	2017 09 12.03647	01 40 30.20	+17 05 14.8	17.2	N	K K02
47P	2017 09 12.03986	01 40 30.10	+17 05 15.6	16.7	N	I81
47P	2017 09 12.04110	01 40 30.05	+17 05 16.1	17.2	N	K K02
47P	2017 09 12.06057	01 40 29.71	+17 05 22.1	17.2	N	9 G40
47P	2017 09 12.06585	01 40 29.54	+17 05 23.3	17.2	N	9 G40
47P	2017 09 12.07522	01 40 29.32	+17 05 25.3	17.1	N	9 G40
47P	2017 09 12.54616	01 40 17.57	+17 07 09.3			K D81
47P	2017 09 12.55002	01 40 17.49	+17 07 11.1	15.7	T	K D81
47P	2017 09 12.94828	01 40 07.37	+17 08 38.4	16.9	N	K 107
47P	2017 09 12.98496	01 40 06.41	+17 08 46.9	16.8	N	K 107
47P	2017 09 13.01446	01 40 05.58	+17 08 53.1	16.8	N	K 107
47P	2017 09 13.05252	01 40 04.54	+17 09 01.6	16.7	N	K 107
47P	2017 09 13.50357	01 39 52.80	+17 10 40.1	17.4	T	T08
47P	2017 09 13.50609	01 39 52.68	+17 10 40.9	17.1	T	T08
47P	2017 09 13.51698	01 39 52.42	+17 10 43.2	17.2	T	T08
47P	2017 09 13.51886	01 39 52.30	+17 10 43.5	16.9	T	T08
47P	2017 09 13.51985	01 39 52.22	+17 10 43.6	16.9	T	T08
47P	2017 09 13.52885	01 39 52.11	+17 10 45.8	17.3	T	T08
47P	2017 09 13.89934	01 39 42.29	+17 12 02.6			L51
47P	2017 09 13.90150	01 39 42.24	+17 12 02.9	16.2	T	L51
47P	2017 09 13.90367	01 39 42.13	+17 12 03.1	16.9	N	L51
47P	2017 09 13.90583	01 39 42.15	+17 12 03.9			L51
47P	2017 09 13.91751	01 39 41.89	+17 12 06.3	17.0	T	K 215
47P	2017 09 13.91879	01 39 41.85	+17 12 06.5	17.1	T	K 215
47P	2017 09 13.92007	01 39 41.82	+17 12 06.8	17.5	T	K 215
47P	2017 09 14.51899	01 39 25.50	+17 14 12.3			D95
47P	2017 09 14.52439	01 39 25.37	+17 14 13.2			D95
47P	2017 09 14.52979	01 39 25.21	+17 14 14.4	15.9	T	D95
47P	2017 09 14.88940	01 39 15.12	+17 15 28.3	16.7	N	585
47P	2017 09 14.89010	01 39 15.14	+17 15 28.1	16.9	N	585
47P	2017 09 14.89082	01 39 15.06	+17 15 28.6	16.8	N	585
47P	2017 09 14.89153	01 39 15.04	+17 15 28.6	16.6	N	585

47P	2017 09 14.89224	01 39 15.03	+17 15 29.0	16.7	N	585	47P	2017 09 22.89756	01 34 50.54	+17 38 30.3	17.1	N	B96
47P	2017 09 14.89302	01 39 14.99	+17 15 29.1	16.8	N	585	47P	2017 09 22.89919	01 34 50.48	+17 38 30.5	16.7	N	B96
47P	2017 09 14.89373	01 39 15.01	+17 15 29.1	16.8	N	585	47P	2017 09 22.90082	01 34 50.40	+17 38 30.8	16.9	N	B96
47P	2017 09 14.89444	01 39 14.96	+17 15 29.6	16.6	N	585	47P	2017 09 22.90267	01 34 50.31	+17 38 31.1	16.8	N	B96
47P	2017 09 14.89514	01 39 14.94	+17 15 29.2	16.8	N	585	47P	2017 09 22.90432	01 34 50.27	+17 38 31.3	17.1	N	B96
47P	2017 09 14.89585	01 39 14.91	+17 15 29.7	16.6	N	585	47P	2017 09 22.97022	01 34 47.81	+17 38 41.2	16.8	N	J01
47P	2017 09 14.89656	01 39 14.88	+17 15 29.7	16.9	N	585	47P	2017 09 22.97738	01 34 47.56	+17 38 42.4	16.9	N	J01
47P	2017 09 14.89734	01 39 14.87	+17 15 30.1	16.6	N	585	47P	2017 09 22.99742	01 34 46.69	+17 38 45.0	18.0	N	K C47
47P	2017 09 14.89805	01 39 14.84	+17 15 30.4	16.7	N	585	47P	2017 09 23.00037	01 34 46.59	+17 38 45.1	17.7	N	K C47
47P	2017 09 14.89876	01 39 14.81	+17 15 30.5	16.7	N	585	47P	2017 09 23.00332	01 34 46.44	+17 38 45.4	17.6	N	K C47
47P	2017 09 14.89947	01 39 14.87	+17 15 30.5	16.9	N	585	47P	2017 09 23.00627	01 34 46.35	+17 38 46.0	17.2	N	K C47
47P	2017 09 15.04383	01 39 10.65	+17 15 59.3	16.9	N	K K02	47P	2017 09 23.00959	01 34 46.21	+17 38 46.4	17.3	N	K C47
47P	2017 09 15.04849	01 39 10.52	+17 16 00.5	17.0	N	K K02	47P	2017 09 23.02752	01 34 45.60	+17 38 49.2	16.8	N	J01
47P	2017 09 15.05316	01 39 10.38	+17 16 01.6	17.1	N	K K02	47P	2017 09 23.48784	01 34 28.02	+17 39 54.4	17.0	T	T05
47P	2017 09 15.29592	01 39 03.37	+17 16 55.8	17.0	N	W96	47P	2017 09 23.49970	01 34 27.56	+17 39 56.1	17.6	T	T05
47P	2017 09 15.31645	01 39 02.73	+17 16 59.9	17.0	N	W96	47P	2017 09 23.51250	01 34 27.06	+17 39 57.6	17.6	T	T05
47P	2017 09 15.98573	01 38 43.35	+17 19 07.3	16.5	N	K C23	47P	2017 09 23.52006	01 34 26.75	+17 39 58.6	17.7	T	T05
47P	2017 09 15.99006	01 38 43.30	+17 19 07.8	16.8	N	K C23	47P	2017 09 23.89677	01 34 12.48	+17 40 46.3	16.8	N	B96
47P	2017 09 15.99295	01 38 43.14	+17 19 07.7	16.6	N	K C23	47P	2017 09 23.89840	01 34 12.41	+17 40 46.5	17.1	N	B96
47P	2017 09 16.00066	01 38 42.97	+17 19 10.8	17.0	N	J01	47P	2017 09 23.90005	01 34 12.35	+17 40 46.8	16.9	N	B96
47P	2017 09 16.00784	01 38 42.75	+17 19 12.6	17.0	N	J01	47P	2017 09 23.90168	01 34 12.32	+17 40 47.3	16.8	N	B96
47P	2017 09 16.01501	01 38 42.56	+17 19 13.8	17.0	N	J01	47P	2017 09 23.90331	01 34 12.22	+17 40 47.5	16.9	N	B96
47P	2017 09 16.12810	01 38 39.09	+17 19 36.4	17.0	N	J22	47P	2017 09 23.90494	01 34 12.14	+17 40 47.7	17.1	N	B96
47P	2017 09 16.13203	01 38 38.97	+17 19 37.6	17.0	N	J22	47P	2017 09 24.89312	01 33 33.62	+17 42 55.1	16.7	N	C23
47P	2017 09 16.13597	01 38 38.83	+17 19 38.2	17.0	N	J22	47P	2017 09 24.89457	01 33 33.57	+17 42 55.4	17.3	N	B96
47P	2017 09 16.94022	01 38 14.58	+17 22 10.1	16.3	N	585	47P	2017 09 24.89620	01 33 33.52	+17 42 55.7	17.2	N	B96
47P	2017 09 16.94094	01 38 14.51	+17 22 11.3	16.4	N	585	47P	2017 09 24.89785	01 33 33.40	+17 42 55.9	16.7	N	B96
47P	2017 09 16.94235	01 38 14.46	+17 22 11.7	16.6	N	585	47P	2017 09 24.90033	01 33 33.31	+17 42 55.9	16.7	N	C23
47P	2017 09 16.94378	01 38 14.49	+17 22 11.4	17.6	N	585	47P	2017 09 24.90611	01 33 33.10	+17 42 56.8	16.6	N	C23
47P	2017 09 16.94519	01 38 14.42	+17 22 11.8	16.6	N	585	47P	2017 09 25.48049	01 33 09.95	+17 44 09.2	16.7	T	T08
47P	2017 09 16.94590	01 38 14.43	+17 22 12.4	17.0	N	585	47P	2017 09 25.49351	01 33 09.53	+17 44 11.2	17.1	T	T08
47P	2017 09 16.94663	01 38 14.34	+17 22 11.9	16.8	N	585	47P	2017 09 25.49397	01 33 09.45	+17 44 11.3	16.9	T	T08
47P	2017 09 16.94736	01 38 14.37	+17 22 11.6	16.5	N	585	47P	2017 09 25.50623	01 33 08.92	+17 44 12.6	16.8	T	T08
47P	2017 09 16.95100	01 38 14.17	+17 22 12.2	16.6	N	585	47P	2017 09 25.61581	01 33 04.69	+17 44 24.6	16.2	T	K Q11
47P	2017 09 16.95171	01 38 14.21	+17 22 12.8	16.9	N	585	47P	2017 09 25.62184	01 33 04.45	+17 44 25.3			K Q11
47P	2017 09 16.95242	01 38 14.20	+17 22 12.9	16.8	N	585	47P	2017 09 25.62790	01 33 04.18	+17 44 26.0			K Q11
47P	2017 09 16.95313	01 38 14.16	+17 22 12.9	16.8	N	585	47P	2017 09 25.98550	01 32 49.81	+17 45 06.7	16.8	N	J38
47P	2017 09 17.23832	01 38 05.27	+17 23 11.6	17.0	N	W96	47P	2017 09 25.99050	01 32 49.60	+17 45 07.5	16.7	N	J38
47P	2017 09 17.27308	01 38 04.12	+17 23 18.2	17.1	N	W96	47P	2017 09 25.99552	01 32 49.38	+17 45 08.6	16.8	N	J38
47P	2017 09 17.49417	01 37 57.23	+17 23 55.4	16.9	T	T08	47P	2017 09 26.91111	01 32 11.87	+17 46 51.0	17.3	N	C36
47P	2017 09 17.50147	01 37 57.03	+17 23 56.9	17.2	T	T08	47P	2017 09 26.91269	01 32 11.78	+17 46 51.2	17.2	N	C36
47P	2017 09 17.51307	01 37 56.53	+17 23 59.0	16.9	T	T08	47P	2017 09 26.91582	01 32 11.64	+17 46 51.7	17.4	N	C36
47P	2017 09 17.52347	01 37 56.29	+17 24 00.9	17.2	T	T08	47P	2017 09 26.91897	01 32 11.49	+17 46 52.0	17.2	N	C36
47P	2017 09 18.96822	01 37 09.68	+17 28 15.1	16.5	N	I81	47P	2017 09 26.92061	01 32 11.58	+17 46 51.9	16.9	N	J38
47P	2017 09 18.97248	01 37 09.55	+17 28 15.8	16.6	N	I81	47P	2017 09 26.92369	01 32 11.31	+17 46 52.5	17.1	N	C36
47P	2017 09 18.97531	01 37 09.45	+17 28 16.3	16.7	N	I81	47P	2017 09 26.93064	01 32 11.16	+17 46 53.1	16.9	N	J38
47P	2017 09 19.91980	01 36 37.57	+17 30 54.8	16.6	N	I81	47P	2017 09 26.93315	01 32 11.03	+17 46 53.3	16.9	N	J38
47P	2017 09 19.92708	01 36 37.33	+17 30 56.5	16.5	N	I81	47P	2017 09 27.14781	01 32 01.90	+17 47 17.9	16.9	N	J22
47P	2017 09 19.93560	01 36 37.02	+17 30 58.0	16.6	N	I81	47P	2017 09 27.15183	01 32 01.76	+17 47 18.5	16.9	N	J22
47P	2017 09 21.98080	01 35 24.45	+17 36 17.6	16.7	N	I81	47P	2017 09 27.15581	01 32 01.57	+17 47 18.9	16.9	N	J22
47P	2017 09 21.98649	01 35 24.24	+17 36 18.5	16.6	N	I81	47P	2017 09 27.50361	01 31 47.09	+17 47 55.9	16.7	T	T05
47P	2017 09 21.99358	01 35 23.98	+17 36 19.7	16.6	N	I81	47P	2017 09 27.51129	01 31 46.75	+17 47 57.1	17.3	T	T05
47P	2017 09 22.89591	01 34 50.63	+17 38 29.8	17.1	N	B96	47P	2017 09 27.51174	01 31 46.72	+17 47 56.9	16.7	T	T05

47P	2017 09 27.51919	01 31 46.38	+17 47 57.9	16.7	T	T05
47P	2017 09 27.99878	01 31 26.33	+17 48 44.4	17.0	N	K 160
47P	2017 09 28.00116	01 31 26.21	+17 48 44.8	16.6	N	K 160
47P	2017 09 28.00367	01 31 26.11	+17 48 45.5	17.1	N	K 160
47P	2017 09 28.64371	01 30 58.87	+17 49 48.5			900
47P	2017 09 28.65086	01 30 58.55	+17 49 49.2	15.4	T	900
47P	2017 09 29.14131	01 30 37.41	+17 50 35.2	16.9	N	9 G40
47P	2017 09 29.14961	01 30 37.02	+17 50 36.2	16.9	N	9 G40
47P	2017 09 29.46777	01 30 23.22	+17 51 04.7	16.6	T	T08
47P	2017 09 29.48096	01 30 22.62	+17 51 05.9	16.8	T	T08
47P	2017 09 29.49317	01 30 22.06	+17 51 06.8	16.8	T	T08
47P	2017 09 29.50157	01 30 21.70	+17 51 07.3	16.7	T	T08

49P/Arend-Rigaux

49P	2017 07 26.17109	22 51 16.63	−20 44 07.5	19.2	N	W98
49P	2017 07 26.17815	22 51 16.45	−20 44 10.4	19.5	N	W98
49P	2017 07 26.18521	22 51 16.32	−20 44 14.1	19.0	N	W98
49P	2017 07 26.19227	22 51 16.11	−20 44 17.8	19.4	N	W98
49P	2017 07 26.19933	22 51 15.99	−20 44 21.1	19.2	N	W98
49P	2017 08 14.43536	22 40 19.885	−23 39 59.28	18.6	T	F51
49P	2017 08 14.44554	22 40 19.419	−23 40 05.03	18.5	T	F51
49P	2017 08 14.45570	22 40 18.953	−23 40 10.88	18.6	T	F51
49P	2017 08 14.46586	22 40 18.490	−23 40 16.67	18.6	T	F51
49P	2017 08 15.12135	22 39 49.28	−23 46 29.5	18.9	N	J22
49P	2017 08 15.12523	22 39 49.10	−23 46 30.7	18.9	N	J22
49P	2017 08 15.12910	22 39 48.89	−23 46 33.1	18.9	N	J22
49P	2017 08 16.48005	22 38 47.60	−23 59 19.0	19.1	T	T05
49P	2017 08 16.48976	22 38 47.12	−23 59 24.2	19.1	T	T05
49P	2017 08 16.49266	22 38 47.03	−23 59 26.0	19.2	T	T05
49P	2017 08 16.50662	22 38 46.33	−23 59 32.7	19.4	T	T05
49P	2017 08 18.44247	22 37 15.812	−24 17 46.38	19.0	T	F51
49P	2017 08 18.45361	22 37 15.264	−24 17 52.70	19.1	T	F51
49P	2017 08 18.46484	22 37 14.708	−24 17 58.99	19.1	T	F51
49P	2017 08 18.47608	22 37 14.154	−24 18 05.31	19.2	T	F51
49P	2017 08 18.49036	22 37 13.43	−24 18 13.2	18.9	T	T08
49P	2017 08 18.49089	22 37 13.47	−24 18 13.1	18.9	T	T08
49P	2017 08 18.49914	22 37 13.05	−24 18 18.6	19.0	T	T08
49P	2017 08 18.50124	22 37 12.97	−24 18 19.6	19.1	T	T08
49P	2017 08 18.50799	22 37 12.52	−24 18 22.6	19.0	T	T08
49P	2017 08 26.46109	22 30 32.75	−25 31 09.2	18.6	T	T08
49P	2017 08 26.47008	22 30 32.30	−25 31 13.2	18.6	T	T08
49P	2017 08 26.48115	22 30 31.58	−25 31 20.4	18.5	T	T08
49P	2017 08 26.49122	22 30 31.11	−25 31 25.3	18.7	T	T08
49P	2017 09 15.39364	22 12 50.49	−28 00 28.2	19.1	T	T08
49P	2017 09 15.40146	22 12 50.12	−28 00 30.8	18.5	T	T08
49P	2017 09 15.40930	22 12 49.69	−28 00 33.8	18.2	T	T08
49P	2017 09 15.42307	22 12 48.95	−28 00 39.3	18.8	T	T08
49P	2017 09 15.45554	22 12 47.29	−28 00 50.2	18.8	T	T05
49P	2017 09 15.46569	22 12 46.69	−28 00 53.3	19.1	T	T05
49P	2017 09 15.47587	22 12 46.21	−28 00 56.2	19.0	T	T05
49P	2017 09 15.48615	22 12 45.70	−28 01 00.1	19.0	T	T05
49P	2017 09 16.02988	22 12 18.34	−28 04 08.3	18.7	N	J22
49P	2017 09 16.03388	22 12 18.14	−28 04 09.1	18.7	N	J22
49P	2017 09 16.03785	22 12 17.94	−28 04 10.5	18.7	N	J22
49P	2017 09 17.39803	22 11 10.22	−28 11 43.2	19.0	T	T05
49P	2017 09 17.40636	22 11 09.79	−28 11 45.7	18.7	T	T05
49P	2017 09 17.41422	22 11 09.32	−28 11 47.7	19.2	T	T05
49P	2017 09 17.42253	22 11 08.92	−28 11 50.7	19.0	T	T05
49P	2017 09 24.56667	22 05 37.97	−28 45 06.1			K Q11
49P	2017 09 24.57272	22 05 37.69	−28 45 07.6			K Q11
49P	2017 09 24.57877	22 05 37.41	−28 45 08.7	18.6	T	K Q11

53P/Van Biesbroeck

53P	2017 07 31.21894	02 22 35.72	+08 22 36.4	18.8	N	J22
53P	2017 07 31.22072	02 22 35.81	+08 22 37.1	18.8	N	J22
53P	2017 07 31.22583	02 22 35.93	+08 22 38.2	18.8	N	J22
53P	2017 09 18.54318	02 22 43.490	+06 52 54.82	19.7	T	F51
53P	2017 09 18.55516	02 22 43.166	+06 52 51.84	19.8	T	F51
53P	2017 09 18.56720	02 22 42.953	+06 52 49.98	19.5	T	F51
53P	2017 09 18.57920	02 22 42.576	+06 52 46.63	19.7	T	F51
53P	2017 09 25.72474	02 19 48.19	+06 27 15.2			K Q11
53P	2017 09 25.73683	02 19 47.83	+06 27 12.4	18.2	T	K Q11
53P	2017 09 26.49525	02 19 27.260	+06 24 23.91	20.1	T	F51
53P	2017 09 26.50898	02 19 26.864	+06 24 20.82	20.1	T	F51
53P	2017 09 26.52255	02 19 26.485	+06 24 17.82	20.1	T	F51
53P	2017 09 26.53619	02 19 26.089	+06 24 14.73	20.2	T	F51
53P	2017 09 28.53548	02 18 29.943	+06 16 45.10	19.9	T	F51
53P	2017 09 28.54753	02 18 29.586	+06 16 42.48	20.3	T	F51
53P	2017 09 28.55958	02 18 29.237	+06 16 39.68	20.3	T	F51
53P	2017 09 30.49656	02 17 32.593	+06 09 18.78	19.7	T	F51
53P	2017 09 30.50867	02 17 32.218	+06 09 15.97	19.9	T	F51
53P	2017 09 30.52081	02 17 31.844	+06 09 13.25	20.0	T	F51
53P	2017 09 30.53294	02 17 31.465	+06 09 10.44	20.0	T	F51

56P/Slaughter-Burnham

56P	2016 11 09.05237	04 38 22.95	+34 24 20.7	15.5	N	A24
56P	2016 11 09.05309	04 38 22.79	+34 24 19.9	15.7	N	A24
56P	2016 11 09.09525	04 38 21.43	+34 24 26.9	15.9	N	A24
56P	2016 11 09.09597	04 38 21.42	+34 24 26.8	16.0	N	A24
56P	2016 11 29.98708	04 22 37.51	+34 23 36.3	15.9	N	A24
56P	2016 11 29.98781	04 22 37.47	+34 23 36.3	15.9	N	A24
56P	2016 11 30.03164	04 22 35.27	+34 23 31.8	15.7	N	A24
56P	2016 11 30.03236	04 22 35.25	+34 23 32.0	15.8	N	A24
56P	2016 11 30.96425	04 21 50.21	+34 21 56.0	15.9	N	A24
56P	2016 11 30.96497	04 21 50.18	+34 21 56.4	16.7	N	A24
56P	2016 12 01.00805	04 21 48.00	+34 21 51.7	16.8	N	A24
56P	2016 12 01.00878	04 21 47.97	+34 21 51.5	16.7	N	A24
56P	2016 12 01.97077	04 21 01.71	+34 20 04.7	17.0	N	A24
56P	2016 12 01.97151	04 21 01.68	+34 20 04.5	16.8	N	A24
56P	2016 12 02.01741	04 20 59.40	+34 19 58.9	17.0	N	A24
56P	2016 12 02.01815	04 20 59.34	+34 19 58.8	17.0	N	A24

59P/Kearns-Kwee

59P	2017 09 11.97845	23 08 44.16	+03 00 10.2	21.3	T	9 G40
59P	2017 09 12.00518	23 08 42.97	+03 00 06.2			9 G40
59P	2017 09 16.40872	23 05 31.808	+02 48 03.52	21.3	T	F51
59P	2017 09 16.41949	23 05 31.323	+02 48 01.82	21.2	T	F51

59P	2017 09 16.43122	23 05 30.808	+02 47 59.78	21.1	T	F51
59P	2017 09 16.44192	23 05 30.321	+02 47 58.08	21.2	T	F51
59P	2017 09 24.35107	22 59 54.901	+02 24 19.20	21.5	T	F51
59P	2017 09 24.36373	22 59 54.361	+02 24 16.75	21.4	T	F51

62P/Tsuchinshan

62P	2017 08 10.20777	05 38 45.45	+19 04 06.2	18.9	N	12G40
62P	2017 08 10.21682	05 38 46.72	+19 04 08.7	19.0	N	12G40
62P	2017 08 13.13753	05 47 15.99	+19 15 53.6	18.8	N	K A77
62P	2017 08 13.14057	05 47 16.52	+19 15 54.7	18.5	N	K A77
62P	2017 08 13.14100	05 47 16.58	+19 15 55.0	18.3	N	K A77
62P	2017 08 13.14447	05 47 17.16	+19 15 56.4	18.5	N	K A77
62P	2017 08 14.10670	05 50 06.53	+19 19 30.1	18.7	N	K C10
62P	2017 08 14.11812	05 50 08.44	+19 19 31.8	18.9	N	K C10
62P	2017 08 14.13336	05 50 11.11	+19 19 35.2	18.8	N	K C10
62P	2017 08 14.18604	05 50 20.62	+19 19 49.4	18.9	T	9 G40
62P	2017 08 14.20707	05 50 24.28	+19 19 54.4	19.0	T	9 G40
62P	2017 08 15.11739	05 53 05.37	+19 23 08.9	19.4	N	K A77
62P	2017 08 15.13010	05 53 07.51	+19 23 10.4	19.2	N	K A77
62P	2017 08 15.14285	05 53 09.85	+19 23 14.8	19.4	N	K A77
62P	2017 08 25.14198	06 23 26.67	+19 49 57.5	18.6	N	K A77
62P	2017 08 25.14856	06 23 27.89	+19 49 58.1	18.8	N	K A77
62P	2017 08 25.15513	06 23 29.14	+19 49 58.7	19.1	N	K A77
62P	2017 09 01.12739	06 45 25.35	+19 58 05.7	17.4	N	K C23
62P	2017 09 01.13027	06 45 25.83	+19 58 05.3	17.6	N	K C23
62P	2017 09 01.13316	06 45 26.43	+19 58 05.8	16.8	N	K C23
62P	2017 09 01.14181	06 45 28.12	+19 58 06.3	17.5	N	K C23
62P	2017 09 05.15769	06 58 23.78	+19 58 33.0	17.6	N	K A77
62P	2017 09 05.16180	06 58 24.61	+19 58 33.2	17.5	N	K A77
62P	2017 09 05.16591	06 58 25.48	+19 58 32.9	17.4	N	K A77
62P	2017 09 08.04605	07 07 49.18	+19 56 52.1	17.0	N	K 585
62P	2017 09 08.04676	07 07 49.28	+19 56 52.3	17.1	N	K 585
62P	2017 09 08.04747	07 07 49.43	+19 56 52.2	17.1	N	K 585
62P	2017 09 08.04819	07 07 49.58	+19 56 52.4	17.1	N	K 585
62P	2017 09 08.04890	07 07 49.75	+19 56 52.3	17.1	N	K 585
62P	2017 09 08.04961	07 07 49.90	+19 56 51.3	17.0	N	K 585
62P	2017 09 08.05031	07 07 50.02	+19 56 52.3	17.1	N	K 585
62P	2017 09 08.05102	07 07 50.14	+19 56 52.0	17.0	N	K 585
62P	2017 09 08.05173	07 07 50.35	+19 56 51.4	16.9	N	K 585
62P	2017 09 08.05287	07 07 50.56	+19 56 52.0	16.9	N	K 585
62P	2017 09 10.13081	07 14 41.08	+19 54 36.3	17.3	N	K C23
62P	2017 09 10.13370	07 14 41.51	+19 54 37.0	17.2	N	K C23
62P	2017 09 10.13658	07 14 42.16	+19 54 36.2	16.7	N	K C23
62P	2017 09 13.14778	07 24 42.51	+19 49 44.8	17.3	N	K A77
62P	2017 09 13.15723	07 24 44.33	+19 49 43.6	17.2	N	K A77
62P	2017 09 13.22948	07 24 58.79	+19 49 36.4	17.2	N	9 G40
62P	2017 09 13.23411	07 24 59.68	+19 49 36.1	17.2	N	9 G40
62P	2017 09 14.13255	07 27 59.62	+19 47 47.0	17.3	T	K 215
62P	2017 09 14.13383	07 28 00.14	+19 47 46.1			K 215
62P	2017 09 14.13512	07 28 00.48	+19 47 44.8	17.1	T	K 215
62P	2017 09 17.01839	07 37 42.45	+19 40 41.5			L51
62P	2017 09 17.02058	07 37 42.77	+19 40 40.1	16.6	N	L51
62P	2017 09 17.02275	07 37 43.25	+19 40 40.0	14.5	T	L51
62P	2017 09 17.02714	07 37 44.15	+19 40 39.7			L51
62P	2017 09 17.13251	07 38 05.51	+19 40 22.1	16.7	N	C23
62P	2017 09 17.13684	07 38 06.30	+19 40 21.4	16.6	N	C23
62P	2017 09 17.13973	07 38 06.85	+19 40 20.7	16.2	N	C23
62P	2017 09 19.11020	07 44 47.49	+19 34 26.7	16.6	N	I81
62P	2017 09 19.11445	07 44 48.37	+19 34 25.5	16.4	N	I81
62P	2017 09 19.11729	07 44 48.98	+19 34 25.1	16.8	N	I81
62P	2017 09 20.33718	07 48 58.06	+19 30 29.2	16.9	N	W96
62P	2017 09 20.38348	07 49 07.52	+19 30 19.8	16.8	N	W96
62P	2017 09 20.76377	07 50 25.28	+19 28 52.8			K D81
62P	2017 09 20.76682	07 50 25.87	+19 28 53.7			K D81
62P	2017 09 20.76987	07 50 26.46	+19 28 53.6	14.4	T	K D81
62P	2017 09 21.48376	07 52 52.83	+19 26 17.3			32H06
62P	2017 09 21.48513	07 52 53.09	+19 26 17.1			32H06
62P	2017 09 21.48648	07 52 53.39	+19 26 16.7	13.8	T	32H06
62P	2017 09 22.11691	07 55 02.69	+19 23 51.2	16.6	N	C23
62P	2017 09 22.12268	07 55 03.86	+19 23 50.6	16.8	N	C23
62P	2017 09 22.12701	07 55 04.75	+19 23 49.6	16.6	N	C23
62P	2017 09 22.14638	07 55 08.68	+19 23 44.6	16.4	N	I81
62P	2017 09 22.15398	07 55 10.24	+19 23 43.1	16.3	N	I81
62P	2017 09 22.16107	07 55 11.69	+19 23 41.3	16.9	N	I81
62P	2017 09 22.18207	07 55 15.90	+19 23 32.9	16.7	N	K A77
62P	2017 09 22.18445	07 55 16.56	+19 23 38.4	16.4	N	K A77
62P	2017 09 22.37293	07 55 55.32	+19 22 59.0	16.8	N	W96
62P	2017 09 22.38153	07 55 57.02	+19 22 56.2	16.9	N	W96
62P	2017 09 22.39012	07 55 58.65	+19 22 55.5	17.0	N	W96
62P	2017 09 29.37375	08 20 03.90	+18 50 27.1	16.7	N	W96
62P	2017 09 29.38195	08 20 05.59	+18 50 25.0	16.6	N	W96
62P	2017 09 29.39014	08 20 07.30	+18 50 22.7	16.5	N	W96
62P	2017 09 30.99211	08 25 41.26	+18 41 22.3			L51
62P	2017 09 30.99508	08 25 41.91	+18 41 20.8	15.9	N	L51
62P	2017 09 30.99657	08 25 42.16	+18 41 20.8	12.9	T	L51
62P	2017 09 30.99955	08 25 42.80	+18 41 19.3			L51

65P/Gunn

65P	2017 06 22.59160	15 48 22.64	−21 54 22.1	16.5	N	Q68
65P	2017 06 22.62324	15 48 21.64	−21 54 23.8	16.2	N	Q68
65P	2017 06 23.59509	15 47 53.13	−21 55 28.2	16.3	N	Q68
65P	2017 06 23.62645	15 47 52.14	−21 55 30.5	16.4	N	Q68
65P	2017 06 24.59008	15 47 25.00	−21 56 36.3	16.3	N	Q68
65P	2017 06 24.61466	15 47 24.29	−21 56 37.8	16.4	N	Q68
65P	2017 06 25.52347	15 46 59.86	−21 57 41.5	16.4	N	Q68
65P	2017 06 25.52957	15 46 59.69	−21 57 42.0	16.4	N	Q68
65P	2017 06 26.55349	15 46 33.27	−21 58 54.8	16.2	N	Q68
65P	2017 06 26.55951	15 46 33.08	−21 58 55.7	16.3	N	Q68
65P	2017 06 30.46390	15 45 05.22	−22 03 56.0	16.5	N	Q68
65P	2017 06 30.49422	15 45 04.61	−22 03 58.0	16.4	N	Q68
65P	2017 07 01.56669	15 44 43.96	−22 05 26.8	16.4	N	Q68
65P	2017 07 01.59642	15 44 43.35	−22 05 29.1	16.4	N	Q68
65P	2017 07 02.47833	15 44 27.82	−22 06 44.2	16.5	N	Q68
65P	2017 07 02.50901	15 44 27.29	−22 06 46.1	16.4	N	Q68
65P	2017 07 07.55147	15 43 18.71	−22 14 33.4	16.6	N	Q68
65P	2017 07 07.64757	15 43 17.68	−22 14 42.5	16.6	N	Q68

65P	2017 07 08.47024	15 43 10.31	−22 16 10.0	15.1	T	349
65P	2017 07 08.48183	15 43 10.18	−22 16 11.0			349
65P	2017 07 08.87831	15 43 06.84	−22 16 49.9	15.9	N	Z55
65P	2017 07 08.87935	15 43 06.72	−22 16 52.5	16.2	N	Z55
65P	2017 07 08.88019	15 43 06.75	−22 16 52.9	16.1	N	Z55
65P	2017 07 08.88104	15 43 06.72	−22 16 52.6	16.3	N	Z55
65P	2017 07 10.38277	15 42 56.06	−22 19 28.3	16.7	T	T05
65P	2017 07 10.39068	15 42 56.02	−22 19 29.3	16.6	T	T05
65P	2017 07 10.39872	15 42 55.96	−22 19 30.0	16.7	T	T05
65P	2017 07 10.40723	15 42 55.87	−22 19 31.0	16.6	T	T05
65P	2017 07 11.95799	15 42 48.85	−22 22 19.7	15.4	N	J22
65P	2017 07 11.95957	15 42 48.91	−22 22 20.3	15.4	N	J22
65P	2017 07 13.19830	15 42 44.86	−22 24 36.4	16.3	N	W96
65P	2017 07 13.22695	15 42 44.81	−22 24 39.7	16.2	N	W96
65P	2017 07 15.12755	15 42 43.93	−22 28 26.7	16.6	N	750
65P	2017 07 15.15132	15 42 44.06	−22 28 30.6	16.6	N	750
65P	2017 07 16.32938	15 42 46.02	−22 30 52.5	16.5	T	T08
65P	2017 07 16.33764	15 42 46.02	−22 30 53.2	16.5	T	T08
65P	2017 07 16.34589	15 42 46.02	−22 30 54.2	16.5	T	T08
65P	2017 07 16.35413	15 42 46.04	−22 30 55.2	16.5	T	T08
65P	2017 07 16.89770	15 42 47.72	−22 32 04.3	15.9	N	J01
65P	2017 07 16.90866	15 42 47.80	−22 32 04.9	15.9	N	J01
65P	2017 07 16.91597	15 42 47.77	−22 32 05.5	15.9	N	J01
65P	2017 07 17.45077	15 42 49.89	−22 33 08.6	16.6	N	Q68
65P	2017 07 17.48182	15 42 50.00	−22 33 12.9	16.5	N	Q68
65P	2017 07 17.84679	15 42 51.55	−22 34 04.2	16.2	N	585
65P	2017 07 17.84750	15 42 51.52	−22 34 03.9	16.1	N	585
65P	2017 07 17.84821	15 42 51.52	−22 34 03.9	15.9	N	585
65P	2017 07 17.84892	15 42 51.56	−22 34 04.5	15.7	N	585
65P	2017 07 17.84963	15 42 51.56	−22 34 04.3	16.0	N	585
65P	2017 07 17.85104	15 42 51.53	−22 34 04.2	15.8	N	585
65P	2017 07 17.85175	15 42 51.54	−22 34 04.9	16.0	N	585
65P	2017 07 17.85247	15 42 51.50	−22 34 03.8	15.8	N	585
65P	2017 07 17.85388	15 42 51.63	−22 34 04.3	15.9	N	585
65P	2017 07 17.85458	15 42 51.54	−22 34 04.9	16.1	N	585
65P	2017 07 20.31921	15 43 07.69	−22 39 27.3	16.6	T	T08
65P	2017 07 20.32748	15 43 07.75	−22 39 28.1	16.6	T	T08
65P	2017 07 20.33575	15 43 07.82	−22 39 29.2	16.6	T	T08
65P	2017 07 20.34402	15 43 07.86	−22 39 30.2	16.5	T	T08
65P	2017 07 20.53608	15 43 09.45	−22 39 53.0	16.5	N	Q68
65P	2017 07 20.56582	15 43 09.70	−22 39 56.5	16.7	N	Q68
65P	2017 07 20.93868	15 43 13.09	−22 40 50.9	16.0	N	J22
65P	2017 07 20.94499	15 43 13.13	−22 40 52.1	16.0	N	J22
65P	2017 07 21.52613	15 43 18.76	−22 42 08.4	16.5	N	Q68
65P	2017 07 21.55813	15 43 19.04	−22 42 11.9	16.4	N	Q68
65P	2017 07 21.95729	15 43 23.23	−22 43 12.4	16.0	N	212
65P	2017 07 21.96161	15 43 23.21	−22 43 12.5	16.0	N	212
65P	2017 07 21.96591	15 43 23.30	−22 43 13.1	15.9	N	212
65P	2017 07 21.96880	15 43 23.25	−22 43 13.4	15.9	N	212
65P	2017 07 22.51180	15 43 29.29	−22 44 25.9	16.8	N	Q68
65P	2017 07 22.55351	15 43 29.73	−22 44 31.6	16.7	N	Q68
65P	2017 07 24.90046	15 44 00.84	−22 50 15.7	16.0	N	J01
65P	2017 07 24.90984	15 44 00.85	−22 50 17.7	15.9	N	J01
65P	2017 07 24.91701	15 44 01.01	−22 50 17.3	15.9	N	J01
65P	2017 07 26.30958	15 44 23.03	−22 53 45.2	16.9	T	T05
65P	2017 07 26.31806	15 44 23.16	−22 53 46.6	16.9	T	T05
65P	2017 07 26.32605	15 44 23.29	−22 53 47.9	16.9	T	T05
65P	2017 07 26.33453	15 44 23.40	−22 53 49.2	16.9	T	T05
65P	2017 07 27.83273	15 44 50.31	−22 57 40.0	16.8	N	K 160
65P	2017 07 27.83529	15 44 50.35	−22 57 40.5	17.0	N	K 160
65P	2017 07 27.83784	15 44 50.39	−22 57 40.6	17.0	N	K 160
65P	2017 07 30.50257	15 45 45.69	−23 04 40.8	15.8	N	467
65P	2017 07 30.50337	15 45 45.69	−23 04 42.4	17.8	N	467
65P	2017 07 30.50416	15 45 45.73	−23 04 41.4	17.8	N	467
65P	2017 08 03.30594	15 47 21.48	−23 15 23.0	17.6	T	T05
65P	2017 08 03.31279	15 47 21.64	−23 15 23.9	17.1	T	T05
65P	2017 08 03.31971	15 47 21.86	−23 15 24.8	16.7	T	T05
65P	2017 08 03.32661	15 47 22.04	−23 15 26.1	17.6	T	T05
65P	2017 08 05.20259	15 48 16.32	−23 20 51.6	18	T	C51
Geocentric position (km)		− 2286.4625	− 5755.2494	− 2966.5054		
65P	2017 08 05.46453	15 48 24.27	−23 21 36.9			C51
Geocentric position (km)		− 2269.4127	− 5776.7081	− 2937.6181		
65P	2017 08 05.59543	15 48 28.31	−23 22 01.4			C51
Geocentric position (km)		− 2248.8438	− 5773.0176	− 2960.6202		
65P	2017 08 05.66088	15 48 30.37	−23 22 12.9			C51
Geocentric position (km)		− 2238.5594	− 5771.1203	− 2972.1043		
65P	2017 08 05.72633	15 48 32.44	−23 22 23.9			C51
Geocentric position (km)		− 2228.2749	− 5769.1858	− 2983.5730		
65P	2017 08 06.05372	15 48 42.52	−23 23 22.7			C51
Geocentric position (km)		− 2200.8849	− 5788.6629	− 2966.0056		
65P	2017 08 06.31552	15 48 50.78	−23 24 10.1			C51
Geocentric position (km)		− 2159.8388	− 5780.5220	− 3011.7436		
65P	2017 08 08.32884	15 49 56.76	−23 30 18.2	17.1	T	T05
65P	2017 08 08.33658	15 49 57.07	−23 30 19.4	16.8	T	T05
65P	2017 08 08.34348	15 49 57.26	−23 30 20.6	17.1	T	T05
65P	2017 08 08.35051	15 49 57.53	−23 30 21.9	16.8	T	T05
65P	2017 08 12.47773	15 52 29.08	−23 43 18.2			900
65P	2017 08 12.48487	15 52 29.33	−23 43 19.6	15.0	T	900
65P	2017 08 14.28461	15 53 41.86	−23 49 07.5	16.9	T	T08
65P	2017 08 14.29290	15 53 42.21	−23 49 08.7	16.7	T	T08
65P	2017 08 14.30067	15 53 42.52	−23 49 10.3	16.7	T	T08
65P	2017 08 14.30846	15 53 42.83	−23 49 11.8	16.6	T	T08
65P	2017 08 17.67021	15 56 08.68	−24 00 17.4	18.1	N	C97
65P	2017 08 17.71647	15 56 10.91	−24 00 25.5	17.7	N	C97
65P	2017 08 18.27366	15 56 36.37	−24 02 18.3	16.8	T	T08
65P	2017 08 18.28195	15 56 36.68	−24 02 20.8	17.0	T	T08
65P	2017 08 18.29075	15 56 37.09	−24 02 22.4	16.9	T	T08
65P	2017 08 18.29706	15 56 37.33	−24 02 23.4	17.2	T	T08
65P	2017 08 20.27737	15 58 10.88	−24 09 05.5	17.5	T	T05
65P	2017 08 20.28537	15 58 11.24	−24 09 07.1	17.4	T	T05
65P	2017 08 20.29334	15 58 11.61	−24 09 08.7	17.3	T	T05
65P	2017 08 20.30122	15 58 11.95	−24 09 10.3	17.5	T	T05
65P	2017 08 24.89275	16 02 05.69	−24 25 01.7	16.6	N	J22
65P	2017 08 24.89662	16 02 05.87	−24 25 02.9	16.6	N	J22
65P	2017 08 24.90051	16 02 06.08	−24 25 04.1	16.6	N	J22
65P	2017 08 26.25854	16 03 19.68	−24 29 48.6	16.4	T	T08

65P	2017 08 26.26763	16 03 20.15	−24 29 50.7	16.5	T	T08
65P	2017 08 26.27617	16 03 20.59	−24 29 52.2	16.5	T	T08
65P	2017 08 26.28519	16 03 21.12	−24 29 53.7	16.5	T	T08
65P	2017 08 26.47808	16 03 31.52	−24 30 35.9		K	D81
65P	2017 08 26.47975	16 03 31.70	−24 30 36.6		K	367
65P	2017 08 26.48218	16 03 31.86	−24 30 36.9		K	367
65P	2017 08 26.48229	16 03 31.77	−24 30 36.4		K	D81
65P	2017 08 26.48542	16 03 32.04	−24 30 38.1	15.9	T	K 367
65P	2017 08 26.48651	16 03 31.99	−24 30 38.4	17.5	T	K D81
65P	2017 08 28.24918	16 05 10.90	−24 36 50.8	17.3	T	T05
65P	2017 08 28.25674	16 05 11.34	−24 36 52.4	16.4	T	T05
65P	2017 08 28.26509	16 05 11.79	−24 36 54.3	17.2	T	T05
65P	2017 08 28.27337	16 05 12.25	−24 36 55.8	16.4	T	T05
65P	2017 08 30.85629	16 07 42.73	−24 46 07.3	17.0	T	9 G40
65P	2017 08 30.86313	16 07 43.12	−24 46 09.1	16.9	T	9 G40
65P	2017 09 10.86842	16 19 35.87	−25 25 37.1	16.7	T	9 G40
65P	2017 09 10.88107	16 19 36.75	−25 25 40.0	16.4	T	9 G40
65P	2017 09 11.23699	16 20 01.68	−25 26 55.1	16.5	T	T08
65P	2017 09 11.24538	16 20 02.27	−25 26 57.4	16.6	T	T08
65P	2017 09 11.25326	16 20 02.79	−25 26 58.7	16.7	T	T08
65P	2017 09 11.26113	16 20 03.37	−25 27 00.4	16.6	T	T08
65P	2017 09 12.36900	16 21 21.57	−25 30 56.5	16.9	N	Q68
65P	2017 09 12.39272	16 21 23.23	−25 31 01.0	17.6	N	Q68
65P	2017 09 15.22962	16 24 48.25	−25 41 07.6	17.3	T	T08
65P	2017 09 15.23653	16 24 48.76	−25 41 08.7	17.3	T	T08
65P	2017 09 15.24439	16 24 49.34	−25 41 10.4	16.6	T	T08
65P	2017 09 15.25221	16 24 49.90	−25 41 11.8	16.5	T	T08
65P	2017 09 15.39898	16 25 00.72	−25 41 41.0	17.4	N	Q68
65P	2017 09 15.49581	16 25 07.80	−25 42 00.5	17.6	N	Q68
65P	2017 09 17.22971	16 27 16.88	−25 48 09.7	17.1	T	T05
65P	2017 09 17.23621	16 27 17.31	−25 48 11.0	17.6	T	T05
65P	2017 09 17.24406	16 27 17.94	−25 48 12.9	16.9	T	T05
65P	2017 09 17.25246	16 27 18.57	−25 48 14.8	17.1	T	T05
65P	2017 09 18.42457	16 28 47.14	−25 52 20.4	16.7	T	K Q11
65P	2017 09 18.42598	16 28 47.21	−25 52 20.8		K	Q11
65P	2017 09 19.22684	16 29 48.51	−25 55 07.9	17.2	T	T08
65P	2017 09 19.23286	16 29 49.01	−25 55 09.4	16.5	T	T08
65P	2017 09 19.24073	16 29 49.58	−25 55 10.5	16.7	T	T08
65P	2017 09 19.24856	16 29 50.15	−25 55 12.5	17.1	T	T08

71P/Clark

71P	2016 12 09.51732	13 22 00.05	−00 52 51.4			32H06
71P	2016 12 09.51830	13 22 00.11	−00 52 52.0	17.6	T	32H06
71P	2017 03 04.73379	15 43 09.41	−12 21 44.1	17.2	N	D95
71P	2017 03 04.77098	15 43 12.69	−12 21 59.3	17.9	N	D95
71P	2017 03 04.77961	15 43 13.37	−12 22 02.4	17.2	N	D95
71P	2017 05 29.65196	16 36 57.45	−26 32 49.1	13.3	N	K Q19
71P	2017 05 29.65563	16 36 57.39	−26 32 51.5	13.3	N	K Q19
71P	2017 05 29.65910	16 36 57.24	−26 32 55.6	13.2	N	K Q19
71P	2017 05 29.66257	16 36 57.16	−26 32 57.6	13.1	N	K Q19
71P	2017 05 29.66951	16 36 56.91	−26 33 03.9	13.4	N	K Q19
71P	2017 05 29.67299	16 36 56.75	−26 33 06.1	13.4	N	K Q19
71P	2017 05 29.67646	16 36 56.67	−26 33 09.5	13.1	N	K Q19
71P	2017 05 29.67993	16 36 56.56	−26 33 13.0	13.3	N	K Q19
71P	2017 05 29.68340	16 36 56.41	−26 33 15.6	13.1	N	K Q19
71P	2017 05 29.68688	16 36 56.29	−26 33 18.0	13.3	N	K Q19
71P	2017 05 29.69035	16 36 56.25	−26 33 22.9	13.1	N	K Q19
71P	2017 05 29.69382	16 36 56.04	−26 33 25.6	13.0	N	K Q19
71P	2017 06 22.59978	16 27 49.71	−32 09 14.6	13.6	N	Q68
71P	2017 06 22.61512	16 27 49.53	−32 09 25.4	13.5	N	Q68
71P	2017 06 23.60310	16 27 43.47	−32 21 17.4	13.3	N	Q68
71P	2017 06 23.61833	16 27 43.32	−32 21 28.0	13.4	N	Q68
71P	2017 06 24.59789	16 27 39.58	−32 33 01.2	13.7	N	Q68
71P	2017 06 24.61149	16 27 39.47	−32 33 10.4	13.7	N	Q68
71P	2017 06 25.50624	16 27 38.53	−32 43 33.4	13.9	N	Q68
71P	2017 06 25.52163	16 27 38.44	−32 43 43.9	13.9	N	Q68
71P	2017 06 26.56111	16 27 38.92	−32 55 32.2	13.7	N	Q68
71P	2017 06 26.57300	16 27 38.90	−32 55 39.9	13.7	N	Q68
71P	2017 06 30.47158	16 28 06.96	−33 37 48.2	14.1	N	Q68
71P	2017 06 30.48581	16 28 07.03	−33 37 57.3	14.0	N	Q68
71P	2017 07 01.57433	16 28 21.51	−33 49 05.4	14.0	N	Q68
71P	2017 07 01.58757	16 28 21.64	−33 49 13.1	14.0	N	Q68
71P	2017 07 02.48509	16 28 36.97	−33 58 13.5	13.9	N	Q68
71P	2017 07 02.49912	16 28 37.17	−33 58 21.6	13.9	N	Q68
71P	2017 07 07.51363	16 30 41.90	−34 45 27.0	11.2	T	349
71P	2017 07 07.51751	16 30 42.01	−34 45 29.1			349
71P	2017 07 07.55909	16 30 42.98	−34 45 37.6	13.6	N	Q68
71P	2017 07 07.66322	16 30 45.96	−34 46 29.1	13.7	N	Q68
71P	2017 07 13.45808	16 34 42.59	−35 33 29.5	14.2	N	Q68
71P	2017 07 13.65548	16 34 51.45	−35 34 53.4	14.3	N	Q68
71P	2017 07 13.99480	16 35 08.88	−35 37 38.3	13.4	N	J22
71P	2017 07 13.99878	16 35 09.03	−35 37 39.7	13.4	N	J22
71P	2017 07 14.00265	16 35 09.23	−35 37 41.5	13.4	N	J22
71P	2017 07 14.36315	16 35 27.68	−35 40 18.8	14.3	T	T05
71P	2017 07 14.37209	16 35 28.09	−35 40 22.5	14.3	T	T05
71P	2017 07 14.38053	16 35 28.47	−35 40 26.2	14.3	T	T05
71P	2017 07 14.38946	16 35 28.89	−35 40 29.7	14.3	T	T05
71P	2017 07 15.61367	16 36 33.81	−35 48 59.8	14.3	N	Q68
71P	2017 07 15.62670	16 36 34.52	−35 49 05.0	14.4	N	Q68
71P	2017 07 17.45898	16 38 20.67	−36 01 32.1	14.3	N	Q68
71P	2017 07 17.47405	16 38 21.52	−36 01 38.1	14.4	N	Q68
71P	2017 07 17.51722	16 38 23.80	−36 02 07.9		K	D81
71P	2017 07 17.51947	16 38 24.09	−36 02 08.4	12.7	T	K D81
71P	2017 07 18.50654	16 39 25.07	−36 08 29.0	11.4	T	349
71P	2017 07 18.51120	16 39 25.31	−36 08 30.5			349
71P	2017 07 18.51588	16 39 25.61	−36 08 32.2			349
71P	2017 07 18.53954	16 39 26.97	−36 08 41.0		K	D81
71P	2017 07 18.54337	16 39 27.20	−36 08 42.4		K	D81
71P	2017 07 18.54719	16 39 27.45	−36 08 45.1	12.3	T	K D81
71P	2017 07 19.53058	16 40 30.72	−36 14 39.6	14.4	N	Q68
71P	2017 07 19.54494	16 40 31.63	−36 14 44.4	14.4	N	Q68
71P	2017 07 20.54368	16 41 38.70	−36 20 44.1	14.5	N	Q68
71P	2017 07 20.55802	16 41 39.61	−36 20 49.0	14.5	N	Q68
71P	2017 07 20.92314	16 42 05.31	−36 23 08.1	13.1	N	J22
71P	2017 07 20.92891	16 42 05.65	−36 23 11.3	13.1	N	J22
71P	2017 07 21.53415	16 42 47.93	−36 26 28.1	14.5	N	Q68

71P	2017 07 21.54846	16 42 48.90	−36 26 32.6	14.4	N		Q68
71P	2017 07 22.51972	16 43 59.49	−36 31 57.7	14.4	N		Q68
71P	2017 07 22.54322	16 44 01.10	−36 32 05.0	14.5	N		Q68
71P	2017 07 26.35043	16 49 01.54	−36 51 29.6	14.5	T		T05
71P	2017 07 26.35888	16 49 02.20	−36 51 31.9	14.5	T		T05
71P	2017 07 26.36786	16 49 02.89	−36 51 34.1	14.5	T		T05
71P	2017 07 27.86264	16 51 11.29	−36 58 19.0	13.5	N		B74
71P	2017 07 27.86646	16 51 11.65	−36 58 19.5	13.2	N		B74
71P	2017 07 27.87459	16 51 12.33	−36 58 22.2	13.4	N		B74
71P	2017 07 29.54969	16 53 41.77	−37 05 05.8	15.7	N		467
71P	2017 07 29.55095	16 53 41.88	−37 05 06.2	15.8	N		467
71P	2017 07 29.55220	16 53 41.97	−37 05 06.7	15.8	N		467
71P	2017 08 09.49881	17 12 33.97	−37 36 38.4			K	D81
71P	2017 08 09.50089	17 12 34.15	−37 36 38.0			K	D81
71P	2017 08 09.50297	17 12 34.40	−37 36 36.8			K	D81
71P	2017 08 09.50506	17 12 34.74	−37 36 37.5	12.6	T	K	D81
71P	2017 08 12.47225	17 18 20.69	−37 40 50.3	12.7	T		349
71P	2017 08 12.47847	17 18 21.42	−37 40 50.9				349
71P	2017 08 15.38772	17 24 14.67	−37 43 04.3	14.6	N		31Q62
71P	2017 08 15.38861	17 24 14.78	−37 43 04.8	14.7	N		31Q62
71P	2017 08 15.38948	17 24 14.87	−37 43 04.5	14.7	N		31Q62
71P	2017 08 15.96313	17 25 26.07	−37 43 21.8	14.5	N		W96
71P	2017 08 15.97840	17 25 27.90	−37 43 21.7	14.6	N		W96
71P	2017 08 15.99944	17 25 30.39	−37 43 22.8	14.7	N		W96
71P	2017 08 16.31648	17 26 09.58	−37 43 34.9	15.2	T		T05
71P	2017 08 16.32482	17 26 10.57	−37 43 34.8	15.2	T		T05
71P	2017 08 16.33317	17 26 11.58	−37 43 34.9	15.2	T		T05
71P	2017 08 16.34154	17 26 12.60	−37 43 35.0	15.2	T		T05
71P	2017 08 21.02853	17 36 12.94	−37 42 42.4	14.0	N	K	X39
71P	2017 08 21.04545	17 36 15.16	−37 42 42.3	14.1	N	K	X39
71P	2017 08 21.06407	17 36 17.61	−37 42 39.4	13.3	N	K	X39
71P	2017 08 21.68124	17 37 38.90	−37 42 21.7	15.4	N		C97
71P	2017 08 21.71770	17 37 43.49	−37 42 19.2	15.4	N		C97
71P	2017 08 21.72864	17 37 44.92	−37 42 19.6	15.2	N		C97
71P	2017 09 02.87539	18 05 40.21	−37 18 20.1	15.3	N	9	G40
71P	2017 09 02.87784	18 05 40.58	−37 18 19.9	15.3	N	9	G40
71P	2017 09 02.87963	18 05 40.81	−37 18 19.5	15.4	N	9	G40
71P	2017 09 10.20876	18 23 20.17	−36 50 09.3	16	T		C51
Geocentric position (km)	+ 1545.0175	− 5300.5664	− 4078.5156				
71P	2017 09 10.27421	18 23 29.68	−36 49 51.5				C51
Geocentric position (km)	+ 1550.9480	− 5292.6827	− 4086.4935				
71P	2017 09 10.40511	18 23 48.88	−36 49 15.5	16	T		C51
Geocentric position (km)	+ 1562.7505	− 5276.8970	− 4102.3687				
71P	2017 09 10.53602	18 24 08.02	−36 48 40.8				C51
Geocentric position (km)	+ 1574.4755	− 5261.0405	− 4118.2080				
71P	2017 09 10.53614	18 24 08.06	−36 48 41.2				C51
Geocentric position (km)	+ 1575.7372	− 5311.9761	− 4051.6927				
71P	2017 09 10.66705	18 24 27.14	−36 48 04.3				C51
Geocentric position (km)	+ 1587.5585	− 5296.2707	− 4067.5957				
71P	2017 09 10.85471	18 24 54.64	−36 47 19.6	14.6	N		J22
71P	2017 09 10.85889	18 24 55.20	−36 47 17.8	14.6	N		J22
71P	2017 09 10.86301	18 24 55.72	−36 47 17.9	14.6	N		J22
71P	2017 09 11.54199	18 26 34.57	−36 43 59.6	14.8	N		Q68
71P	2017 09 11.55908	18 26 37.21	−36 43 53.3	15.5	N		Q68
71P	2017 09 12.39422	18 28 40.00	−36 39 55.0	15.4	N		Q68
71P	2017 09 12.41237	18 28 42.60	−36 39 49.9	15.5	N		Q68
71P	2017 09 14.58539	18 34 01.53	−36 28 43.3	15.5	N		Q68
71P	2017 09 14.60154	18 34 03.87	−36 28 38.4	15.5	N		Q68
71P	2017 09 17.67209	18 41 36.51	−36 11 46.9	16.7	N		C97
71P	2017 09 17.67369	18 41 36.76	−36 11 47.5	16.5	N		C97
71P	2017 09 17.67537	18 41 36.94	−36 11 45.1	16.4	N		C97
71P	2017 09 17.67718	18 41 37.14	−36 11 45.3	17.2	N		C97
71P	2017 09 17.67878	18 41 37.23	−36 11 43.4	17.2	N		C97
71P	2017 09 18.87959	18 44 35.16	−36 04 39.6	14.6	N		212
71P	2017 09 18.88103	18 44 35.51	−36 04 39.4	14.7	N		212
71P	2017 09 18.88247	18 44 35.63	−36 04 38.9	14.6	N		212
71P	2017 09 19.84117	18 46 57.47	−35 58 49.1	15.1	N		J22
71P	2017 09 19.84524	18 46 58.09	−35 58 47.7	15.1	N		J22
71P	2017 09 19.84921	18 46 58.67	−35 58 46.2	15.1	N		J22
71P	2017 09 21.08710	18 50 01.51	−35 50 54.7	15.5	N		3W88
71P	2017 09 21.09917	18 50 03.27	−35 50 50.5	15.6	N		3W88
71P	2017 09 25.26911	19 00 20.37	−35 23 04.2	15.5	T		T05
71P	2017 09 25.27650	19 00 21.44	−35 23 00.9	15.4	T		T05
71P	2017 09 25.32259	19 00 28.07	−35 22 40.7	16.1	T		T05

73P/Schwassmann-Wachmann

73P	2017 03 10.37098	20 32 53.41	−20 18 40.0	16.8	T		4W88
73P	2017 03 10.37175	20 32 53.65	−20 18 40.5	16.5	T		4W88
73P-BT	2017 03 10.37175	20 32 52.92	−20 18 36.4	17.9	T		4W88
73P-BT	2017 03 10.37250	20 32 53.14	−20 18 36.4	17.8	T		4W88
73P	2017 03 10.37250	20 32 53.92	−20 18 39.7	16.6	T		4W88
73P	2017 03 10.37326	20 32 54.15	−20 18 39.2	16.6	T		4W88
73P-BT	2017 03 10.37326	20 32 53.42	−20 18 35.6	18.1	T		4W88
73P	2017 03 10.38475	20 32 57.64	−20 18 34.8	16.6	T		4W88
73P-BT	2017 03 10.38475	20 32 56.93	−20 18 31.3	18.0	T		4W88
73P	2017 03 10.38552	20 32 57.92	−20 18 35.0	16.6	T		4W88
73P-BT	2017 03 10.38552	20 32 57.21	−20 18 30.6	18.0	T		4W88
73P	2017 03 10.38625	20 32 58.15	−20 18 33.8	16.5	T		4W88
73P-BT	2017 03 10.38625	20 32 57.41	−20 18 30.3	17.9	T		4W88
73P-BT	2017 03 10.38703	20 32 57.62	−20 18 30.2	17.9	T		4W88
73P	2017 03 10.38703	20 32 58.33	−20 18 33.0	16.6	T		4W88
73P	2017 03 16.78005	21 05 09.73	−19 18 50.6	15.1	N	P	Q62
73P-BT	2017 03 16.78005	21 05 09.28	−19 18 48.4	15.6	N	P	Q62
73P-BT	2017 03 16.78602	21 05 10.99	−19 18 45.1	15.8	N	P	Q62
73P	2017 03 16.78602	21 05 11.48	−19 18 46.7	15.2	N	P	Q62
73P	2017 03 27.79083	21 57 03.32	−16 55 34.5	12.9	N	P	Q62
73P	2017 03 27.79934	21 57 05.46	−16 55 27.9	12.7	N	P	Q62
73P-BT	2017 05 01.40511	00 07 03.49	−07 19 35.0	15.5	N		G39
73P-BT	2017 05 01.40626	00 07 03.74	−07 19 33.8	15.7	N		G39
73P-BT	2017 05 01.40739	00 07 03.89	−07 19 32.7	15.7	N		G39
73P-BT	2017 05 01.40852	00 07 04.13	−07 19 31.7	15.7	N		G39
73P-BT	2017 05 01.41023	00 07 04.45	−07 19 30.3	15.9	N		G39
73P-BT	2017 05 01.41136	00 07 04.67	−07 19 29.0	15.5	N		G39
73P-BT	2017 05 01.41251	00 07 04.86	−07 19 27.8	15.6	N		G39
73P-BT	2017 05 02.40459	00 10 07.81	−07 03 22.2	15.6	N		G39
73P-BT	2017 05 02.40572	00 10 08.03	−07 03 20.8	15.6	N		G39

73P-BT	2017 05 02.40742	00 10 08.26	−07 03 18.9	15.4	N	G39
73P-BT	2017 05 02.40913	00 10 08.63	−07 03 17.7	15.6	N	G39
73P-BT	2017 05 02.41196	00 10 09.19	−07 03 13.6	15.4	N	G39
73P-BT	2017 05 03.40533	00 13 10.35	−06 47 14.1	15.7	N	G39
73P-BT	2017 05 03.40760	00 13 10.77	−06 47 12.0	15.6	N	G39
73P-BT	2017 05 03.40930	00 13 11.14	−06 47 09.8	15.6	N	G39
73P-BT	2017 05 03.41157	00 13 11.50	−06 47 07.6	15.6	N	G39
73P-BT	2017 05 03.41330	00 13 11.82	−06 47 06.9	15.6	N	G39
73P-BT	2017 05 04.40526	00 16 10.85	−06 31 14.2	15.7	N	G39
73P-BT	2017 05 04.40696	00 16 11.12	−06 31 12.5	15.7	N	G39
73P-BT	2017 05 04.40924	00 16 11.56	−06 31 09.9	15.6	N	G39
73P-BT	2017 05 04.41151	00 16 11.89	−06 31 07.9	15.7	N	G39
73P-BT	2017 05 04.41322	00 16 12.29	−06 31 05.6	15.7	N	G39
73P-BT	2017 05 05.40525	00 19 09.36	−06 15 21.7	15.8	N	G39
73P-BT	2017 05 05.40695	00 19 09.63	−06 15 19.8	15.9	N	G39
73P-BT	2017 05 05.40859	00 19 09.97	−06 15 18.0	15.5	N	W96
73P-BT	2017 05 05.40865	00 19 09.99	−06 15 18.6	15.8	N	G39
73P-BT	2017 05 05.41157	00 19 10.44	−06 15 16.1	15.7	N	G39
73P-BT	2017 05 05.41327	00 19 10.78	−06 15 14.3	15.7	N	G39
73P-BT	2017 05 05.41330	00 19 10.79	−06 15 14.0	15.6	N	W96
73P-BT	2017 05 05.41833	00 19 11.72	−06 15 09.0	15.7	N	W96
73P-BT	2017 05 06.40357	00 22 05.59	−05 59 38.8	15.7	N	W96
73P-BT	2017 05 06.40586	00 22 06.00	−05 59 37.3	16.2	N	G39
73P-BT	2017 05 06.40813	00 22 06.35	−05 59 34.8	15.9	N	G39
73P-BT	2017 05 06.40978	00 22 06.76	−05 59 32.1	15.6	N	W96
73P-BT	2017 05 06.40984	00 22 06.74	−05 59 33.0	16.1	N	G39
73P-BT	2017 05 06.41211	00 22 07.09	−05 59 30.4	16.1	N	G39
73P-BT	2017 05 06.41381	00 22 07.41	−05 59 29.4	16.0	N	G39
73P-BT	2017 05 06.41583	00 22 07.74	−05 59 27.2	15.8	N	W96
73P	2017 07 03.18030	02 28 17.33	+04 39 53.6	16.8	T	J22
73P	2017 07 03.18304	02 28 17.62	+04 39 54.2	16.8	T	J22
73P	2017 07 03.18392	02 28 17.68	+04 39 54.4	16.8	T	J22
73P	2017 07 07.07432	02 34 03.94	+05 03 11.9	17.7	N	K 160
73P	2017 07 07.07681	02 34 04.14	+05 03 12.7	17.6	N	K 160
73P	2017 07 07.07916	02 34 04.35	+05 03 12.4	17.5	N	K 160
73P	2017 07 07.57910	02 34 47.33	+05 06 04.0	17.2	T	T05
73P	2017 07 07.58716	02 34 48.04	+05 06 05.7	17.2	T	T05
73P	2017 07 07.59815	02 34 48.97	+05 06 09.9	17.2	T	T05
73P	2017 07 07.59975	02 34 49.10	+05 06 10.4	17.3	T	T05
73P	2017 07 08.17602	02 35 38.33	+05 09 21.9	17.2	N	9 G40
73P	2017 07 08.19326	02 35 39.75	+05 09 27.4	17.2	N	9 G40
73P	2017 07 08.21421	02 35 41.47	+05 09 34.2	17.2	N	9 G40
73P	2017 07 13.33168	02 42 38.23	+05 35 49.3	17.2	N	W96
73P	2017 07 13.36498	02 42 40.84	+05 35 58.5	17.0	N	W96
73P	2017 07 15.08090	02 44 52.54	+05 43 46.4	17.7	N	K 160
73P	2017 07 15.08356	02 44 52.67	+05 43 47.1	16.9	N	K 160
73P	2017 07 15.08635	02 44 52.98	+05 43 48.1	17.0	N	K 160
73P	2017 07 18.08563	02 48 32.87	+05 56 32.2	17.5	N	K 160
73P	2017 07 18.08783	02 48 33.15	+05 56 32.3	16.8	N	K 160
73P	2017 07 18.09003	02 48 33.30	+05 56 32.0	16.4	N	K 160
73P	2017 07 19.09161	02 49 44.07	+06 00 30.5	17.8	N	K 160
73P	2017 07 19.09400	02 49 44.27	+06 00 30.8	18.3	N	K 160
73P	2017 07 19.09640	02 49 44.48	+06 00 30.3	17.6	N	K 160
73P	2017 07 20.41651	02 51 15.29	+06 05 34.6	17.7	N	3W88
73P	2017 07 20.42478	02 51 15.84	+06 05 36.5	17.6	N	3W88
73P	2017 07 24.34527	02 55 30.72	+06 18 51.1	17.8	N	W96
73P	2017 07 24.37888	02 55 32.80	+06 18 58.3	18.2	N	W96
73P	2017 08 01.08387	03 02 44.64	+06 38 27.6			K 215
73P	2017 08 01.08579	03 02 44.67	+06 38 28.2	18.7	T	K 215
73P	2017 08 01.08772	03 02 44.76	+06 38 28.7	18.6	T	K 215
73P	2017 08 04.11701	03 05 08.81	+06 43 56.8	17.6	N	J22
73P	2017 08 04.11897	03 05 08.96	+06 43 54.8	17.6	N	J22
73P	2017 08 04.12479	03 05 09.22	+06 43 52.8	17.6	N	J22
73P	2017 08 06.22045	03 06 39.86	+06 46 57.6	17.9	N	9 G40
73P	2017 08 06.22626	03 06 40.11	+06 46 58.3	18.0	N	9 G40
73P	2017 08 06.23198	03 06 40.32	+06 46 58.8	17.9	N	9 G40
73P	2017 08 07.66021	03 07 37.68	+06 48 43.2	19	T	C51
Geocentric position (km)		+ 2426.7729	+ 6256.9211	+ 1414.2089		
73P	2017 08 08.05305	03 07 52.90	+06 49 06.9			C51
Geocentric position (km)		+ 2385.4255	+ 6274.6272	+ 1406.4200		
73P	2017 08 08.11850	03 07 55.35	+06 49 12.1			C51
Geocentric position (km)		+ 2375.7942	+ 6275.5083	+ 1418.6677		
73P	2017 08 08.18395	03 07 57.95	+06 49 16.1			C51
Geocentric position (km)		+ 2366.1536	+ 6276.3549	+ 1430.9366		
73P	2017 08 08.24940	03 08 00.33	+06 49 20.6			C51
Geocentric position (km)		+ 2356.5049	+ 6277.1654	+ 1443.1989		
73P	2017 08 08.31486	03 08 02.87	+06 49 24.7			C51
Geocentric position (km)		+ 2346.8576	+ 6277.9443	+ 1455.4161		
73P	2017 08 08.51134	03 08 10.37	+06 49 36.6			C51
Geocentric position (km)		+ 2334.3279	+ 6292.8948	+ 1410.8046		
73P	2017 08 08.64224	03 08 14.95	+06 49 46.3			C51
Geocentric position (km)		+ 2315.0433	+ 6294.4547	+ 1435.2948		
73P	2017 08 08.90405	03 08 24.97	+06 49 59.2			C51
Geocentric position (km)		+ 2276.4089	+ 6297.1634	+ 1484.1550		
73P	2017 08 08.90417	03 08 24.95	+06 49 59.0			C51
Geocentric position (km)		+ 2292.7473	+ 6310.0072	+ 1402.8437		
73P	2017 08 21.10772	03 13 43.97	+06 51 43.4	16.9	N	K 160
73P	2017 08 21.11048	03 13 44.02	+06 51 42.9	17.3	N	K 160
73P	2017 08 21.11326	03 13 44.06	+06 51 42.6	17.6	N	K 160
73P	2017 08 21.20822	03 13 45.48	+06 51 40.9	17.8	N	9 G40
73P	2017 08 21.21686	03 13 45.60	+06 51 40.7	17.8	N	9 G40
73P	2017 08 23.06859	03 14 09.36	+06 50 15.0	17.3	N	K 160
73P	2017 08 23.07098	03 14 09.38	+06 50 14.9	17.2	N	K 160
73P	2017 08 23.07337	03 14 09.39	+06 50 14.6	17.1	N	K 160
73P	2017 08 24.02349	03 14 18.92	+06 49 21.5	17.4	N	K A71
73P	2017 08 24.03811	03 14 19.05	+06 49 20.6	17.3	N	K A71
73P	2017 08 24.05436	03 14 19.17	+06 49 19.7	17.3	N	K A71
73P	2017 08 24.10148	03 14 19.61	+06 49 17.0	17.4	N	K 160
73P	2017 08 24.10400	03 14 19.63	+06 49 16.9	17.5	N	K 160
73P	2017 08 24.10650	03 14 19.65	+06 49 16.6	17.1	N	K 160
73P	2017 08 24.17062	03 14 20.26	+06 49 14.0	17.1	T	J22
73P	2017 08 24.17645	03 14 20.29	+06 49 13.5	17.1	T	J22
73P	2017 08 28.08236	03 14 39.89	+06 44 22.1	17.1	T	J22
73P	2017 08 28.08620	03 14 39.84	+06 44 22.5	17.1	T	J22
73P	2017 09 01.06608	03 14 28.24	+06 37 37.4	17.7	N	K C10
73P	2017 09 01.07369	03 14 28.22	+06 37 36.6	17.6	N	K C10

73P	2017 09 08.51211	03 12 41.15	+06 20 33.1	17.4	T	T08
73P	2017 09 08.51925	03 12 40.91	+06 20 31.8	17.4	T	T08
73P	2017 09 08.52636	03 12 40.82	+06 20 31.0	17.5	T	T08
73P	2017 09 08.53339	03 12 40.67	+06 20 29.7	17.1	T	T08
73P	2017 09 12.51649	03 10 57.14	+06 09 08.0	17.0	T	T08
73P	2017 09 12.52332	03 10 56.91	+06 09 06.4	17.1	T	T08
73P	2017 09 12.53073	03 10 56.70	+06 09 05.0	17.2	T	T08
73P	2017 09 12.53761	03 10 56.46	+06 09 03.7	17.0	T	T08
73P	2017 09 14.51337	03 09 53.34	+06 02 54.6	16.8	T	T05
73P	2017 09 14.52028	03 09 53.10	+06 02 53.4	17.5	T	T05
73P	2017 09 14.52784	03 09 52.80	+06 02 51.8	16.9	T	T05
73P	2017 09 14.53476	03 09 52.56	+06 02 50.4	16.8	T	T05
73P	2017 09 14.617789	03 09 49.651	+06 02 34.86	17.7	T	29 568
73P	2017 09 14.619787	03 09 49.577	+06 02 34.46	17.6	T	29 568
73P	2017 09 14.621660	03 09 49.513	+06 02 34.11	17.6	T	29 568
73P	2017 09 14.80631	03 09 43.11	+06 01 57.8			K D81
73P	2017 09 14.81012	03 09 42.95	+06 01 57.2			K D81
73P	2017 09 14.81775	03 09 42.61	+06 01 54.6	16.5	T	K D81
73P	2017 09 16.19130	03 08 53.48	+05 57 26.0	17.2	T	J22
73P	2017 09 16.19524	03 08 53.31	+05 57 24.9	17.2	T	J22
73P	2017 09 16.19918	03 08 53.13	+05 57 24.3	17.2	T	J22
73P	2017 09 16.50429	03 08 41.72	+05 56 23.1	16.9	T	T08
73P	2017 09 16.51118	03 08 41.48	+05 56 22.2	17.1	T	T08
73P	2017 09 16.51862	03 08 41.21	+05 56 20.5	16.9	T	T08
73P	2017 09 16.52547	03 08 40.92	+05 56 19.5	17.0	T	T08
73P	2017 09 18.25013	03 07 32.75	+05 50 30.2	17.2	N	W96
73P	2017 09 18.29517	03 07 30.85	+05 50 21.1	17.3	N	W96
73P	2017 09 18.33591	03 07 29.13	+05 50 06.9	16.7	T	H15
73P	2017 09 18.34457	03 07 28.75	+05 50 04.3	16.7	T	H15
73P	2017 09 18.35099	03 07 28.46	+05 50 02.9	16.7	T	H15
73P	2017 09 18.58700	03 07 18.664	+05 49 15.77	18.0	T	F51
73P	2017 09 18.59763	03 07 18.160	+05 49 13.21	18.4	T	F51
73P	2017 09 18.60825	03 07 17.737	+05 49 11.24	18.1	T	F51
73P	2017 09 22.49527	03 04 20.78	+05 35 06.2	17.6	T	T05
73P	2017 09 22.50224	03 04 20.48	+05 35 05.1	17.3	T	T05
73P	2017 09 22.50977	03 04 20.15	+05 35 03.3	18.1	T	T05
73P	2017 09 22.51681	03 04 19.71	+05 35 01.4	17.6	T	T05
73P	2017 09 23.12227	03 03 49.79	+05 32 44.8	17.5	N	9 G40
73P	2017 09 23.13439	03 03 49.17	+05 32 42.4	17.4	N	9 G40
73P	2017 09 23.98358	03 03 06.01	+05 29 26.8	17.9	N	B96
73P	2017 09 23.98685	03 03 05.91	+05 29 26.5	16.8	N	B96
73P	2017 09 23.98848	03 03 05.74	+05 29 26.4	17.0	N	B96
73P	2017 09 24.76970	03 02 24.68	+05 26 28.5	16.6	T	Q11
73P	2017 09 24.78396	03 02 23.87	+05 26 25.0			Q11
73P	2017 09 24.98615	03 02 13.37	+05 25 37.7	17.4	N	B96
73P	2017 09 24.98778	03 02 13.20	+05 25 37.1	17.1	N	B96
73P	2017 09 26.47369	03 00 52.12	+05 19 53.3	16.8	T	T05
73P	2017 09 26.48071	03 00 51.73	+05 19 51.9	17.6	T	T05
73P	2017 09 26.48717	03 00 51.35	+05 19 50.1	17.4	T	T05
73P	2017 09 26.49417	03 00 50.93	+05 19 48.6	17.0	T	T05
73P	2017 09 27.37229	03 00 01.14	+05 16 20.5	16.1	T	G96
73P	2017 09 27.37759	03 00 00.76	+05 16 19.1	15.6	T	G96
73P	2017 09 27.38288	03 00 00.51	+05 16 18.0	16.2	T	G96
73P	2017 09 27.38822	03 00 00.12	+05 16 16.3			G96
73P	2017 09 28.48358	02 58 56.64	+05 11 58.2	16.7	T	T08
73P	2017 09 28.49077	02 58 56.24	+05 11 56.8	16.7	T	T08
73P	2017 09 28.49801	02 58 55.79	+05 11 54.8	16.8	T	T08
73P	2017 09 28.50522	02 58 55.33	+05 11 52.9	16.7	T	T08
73P	2017 09 28.52809	02 58 54.053	+05 11 47.82	18.0	T	F51
73P	2017 09 28.54013	02 58 53.319	+05 11 44.88	18.1	T	F51
73P	2017 09 28.55214	02 58 52.590	+05 11 42.04	18.3	T	F51
73P	2017 09 29.44823	02 57 58.81	+05 08 06.8	17.0	T	691
73P	2017 09 29.46403	02 57 57.79	+05 08 02.7	16.8	T	691
73P	2017 09 29.47979	02 57 56.83	+05 07 59.0	16.8	T	691
73P	2017 09 30.04481	02 57 22.77	+05 05 42.9	17.2	N	K A71
73P	2017 09 30.05642	02 57 22.03	+05 05 39.7	17.2	N	K A71
73P	2017 09 30.06803	02 57 21.29	+05 05 37.2	17.1	N	K A71
73P	2017 09 30.07963	02 57 20.55	+05 05 34.2	17.1	N	K A71
73P	2017 09 30.08979	02 57 19.90	+05 05 32.0	17.1	N	K A71
73P	2017 09 30.50178	02 56 54.754	+05 03 54.89	18.4	T	F51
73P	2017 09 30.51389	02 56 53.983	+05 03 52.05	18.4	T	F51
73P	2017 09 30.52603	02 56 53.201	+05 03 49.08	18.4	T	F51
73P	2017 09 30.53820	02 56 52.428	+05 03 46.16	18.4	T	F51

77P/Longmore

77P	2017 09 13.372981	21 47 44.216	−39 48 29.48	19.1	T	29 568
77P	2017 09 13.374156	21 47 44.161	−39 48 29.14	19.1	T	29 568
77P	2017 09 22.29092	21 41 53.997	−38 59 53.62	19.5	T	F51
77P	2017 09 22.29997	21 41 53.666	−38 59 50.36	19.4	T	F51
77P	2017 09 22.30900	21 41 53.355	−38 59 47.21	19.4	T	F51
77P	2017 09 22.31800	21 41 53.048	−38 59 43.73	19.5	T	F51

81P/Wild

81P	2017 06 22.65609	20 22 15.30	−17 40 10.4	18.2	N	Q68
81P	2017 06 22.68800	20 22 13.88	−17 40 15.4	18.1	N	Q68
81P	2017 06 23.65911	20 21 33.01	−17 42 58.1	18.1	N	Q68
81P	2017 06 23.69386	20 21 31.46	−17 43 03.4	18.0	N	Q68
81P	2017 06 30.53307	20 16 18.66	−18 03 24.0	18.0	N	Q68
81P	2017 06 30.59861	20 16 15.40	−18 03 36.5	18.0	N	Q68
81P	2017 07 01.63067	20 15 24.88	−18 06 50.9	18.0	N	K Q68
81P	2017 07 01.65707	20 15 23.55	−18 06 55.8	17.9	N	K Q68
81P	2017 07 02.53866	20 14 39.99	−18 09 43.8	18.1	N	Q68
81P	2017 07 02.59197	20 14 37.27	−18 09 53.7	17.9	N	Q68
81P	2017 07 07.60862	20 10 19.93	−18 26 13.2	18.0	N	K Q68
81P	2017 07 07.67759	20 10 16.24	−18 26 26.8	17.9	N	K Q68
81P	2017 07 07.69821	20 10 15.01	−18 26 31.0	17.6	N	K Q68
81P	2017 07 13.66703	20 04 56.13	−18 46 24.0	18.9	N	Q68
81P	2017 07 13.69871	20 04 54.28	−18 46 30.4	17.6	N	Q68
81P	2017 07 14.47730	20 04 12.19	−18 49 10.9	18.1	T	T05
81P	2017 07 14.48561	20 04 11.71	−18 49 12.1	18.0	T	T05
81P	2017 07 14.48706	20 04 11.67	−18 49 12.6	18.0	T	T05
81P	2017 07 14.49194	20 04 11.37	−18 49 12.9	18.0	T	T05
81P	2017 07 14.68220	20 04 01.01	−18 49 52.7	17.4	T	349
81P	2017 07 14.69516	20 04 00.33	−18 49 54.6			349
81P	2017 07 15.63845	20 03 09.17	−18 52 59.3	18.0	N	Q68
81P	2017 07 15.67015	20 03 07.41	−18 53 05.6	17.8	N	Q68
81P	2017 07 16.46147	20 02 24.53	−18 55 47.8	17.9	T	T08

81P	2017 07 16.46341	20 02 24.38	−18 55 48.0	17.7	T	T08
81P	2017 07 16.48137	20 02 23.40	−18 55 51.1	17.8	T	T08
81P	2017 07 16.48769	20 02 23.04	−18 55 53.1	17.7	T	T08
81P	2017 07 16.93113	20 01 59.01	−18 57 22.7	17.9	T	L01
81P	2017 07 16.93391	20 01 58.86	−18 57 22.8	18.0	T	L01
81P	2017 07 16.93668	20 01 58.72	−18 57 23.1	18.2	T	L01
81P	2017 07 16.94517	20 01 58.22	−18 57 24.8	18.3	T	L01
81P	2017 07 17.51451	20 01 27.45	−18 59 13.6	17.9	N	Q68
81P	2017 07 17.55154	20 01 25.42	−18 59 21.5	17.8	N	Q68
81P	2017 07 19.58969	19 59 34.88	−19 06 04.1	18.0	N	Q68
81P	2017 07 19.65847	19 59 31.06	−19 06 16.2	18.0	N	Q68
81P	2017 07 20.45429	19 58 48.17	−19 08 58.7	17.5	T	T08
81P	2017 07 20.46304	19 58 47.68	−19 09 00.1	17.7	T	T08
81P	2017 07 20.47810	19 58 46.85	−19 09 02.8	17.7	T	T08
81P	2017 07 20.48539	19 58 46.45	−19 09 04.1	17.6	T	T08
81P	2017 07 20.58659	19 58 41.03	−19 09 19.6	17.6	N	Q68
81P	2017 07 20.61868	19 58 39.30	−19 09 26.8	17.9	N	Q68
81P	2017 07 22.00327	19 57 24.78	−19 14 01.8	16.6	N	K 212
81P	2017 07 22.01407	19 57 24.41	−19 14 02.9	16.8	N	K 212
81P	2017 07 22.02628	19 57 23.73	−19 14 05.1	17.5	N	K 212
81P	2017 07 22.06843	19 57 21.43	−19 14 12.1	17.9	N	9 G40
81P	2017 07 22.07438	19 57 21.09	−19 14 13.6	17.9	N	9 G40
81P	2017 07 22.07961	19 57 20.84	−19 14 14.3	18.0	N	9 G40
81P	2017 07 22.56764	19 56 54.78	−19 15 45.7	17.8	N	Q68
81P	2017 07 22.58334	19 56 53.92	−19 15 48.3	17.9	N	Q68
81P	2017 07 25.42011	19 54 23.897	−19 24 52.50	18.7	T	F51
81P	2017 07 25.43203	19 54 23.253	−19 24 54.66	18.8	T	F51
81P	2017 07 25.44393	19 54 22.613	−19 24 56.94	18.8	T	F51
81P	2017 07 25.45584	19 54 21.970	−19 24 59.17	18.9	T	F51
81P	2017 07 26.40676	19 53 32.481	−19 27 57.42	19.0	T	F51
81P	2017 07 26.41879	19 53 31.841	−19 27 59.69	19.0	T	F51
81P	2017 07 26.43083	19 53 31.198	−19 28 01.88	19.0	T	F51
81P	2017 07 26.44657	19 53 30.35	−19 28 04.9	18.1	T	T05
81P	2017 07 26.45546	19 53 29.82	−19 28 06.9	18.1	T	T05
81P	2017 07 26.46383	19 53 29.40	−19 28 08.1	18.1	T	T05
81P	2017 07 26.47268	19 53 28.97	−19 28 10.7	18.1	T	T05
81P	2017 08 14.40049	19 39 16.54	−20 19 24.6	18.3	T	T08
81P	2017 08 14.40937	19 39 16.24	−20 19 24.8	18.2	T	T08
81P	2017 08 14.41818	19 39 15.89	−20 19 26.4	18.2	T	T08
81P	2017 08 14.42287	19 39 15.76	−20 19 27.0	17.8	T	T08
81P	2017 08 28.35763	19 32 42.10	−20 45 35.2	17.9	T	T05
81P	2017 08 28.36582	19 32 42.00	−20 45 36.3	18.7	T	T05
81P	2017 08 28.37405	19 32 41.75	−20 45 37.7	18.7	T	T05
81P	2017 08 28.38223	19 32 41.61	−20 45 36.7	19.0	T	T05

89P/Russell

89P	2017 07 04.82180	01 21 16.14	−01 16 01.4			1 Q62
89P	2017 07 04.82371	01 21 16.25	−01 16 00.5			1 Q62
89P	2017 07 04.82562	01 21 16.36	−01 15 59.6	18.6	T	1 Q62
89P	2017 08 23.98921	01 42 02.63	+00 40 24.5	20.4	N	K A71
89P	2017 08 24.00708	01 42 02.43	+00 40 24.2	20.1	N	K A71
89P	2017 09 16.49833	01 32 03.204	+00 11 29.53	20.4	T	F51
89P	2017 09 16.55795	01 32 00.702	+00 11 23.05	20.5	T	F51
89P	2017 09 16.57251	01 32 00.110	+00 11 21.38	20.5	T	F51
89P	2017 09 16.58706	01 31 59.493	+00 11 19.75	20.7	T	F51
89P	2017 09 25.48075	01 25 26.494	−00 05 51.44	20.4	T	F51
89P	2017 09 25.49354	01 25 25.863	−00 05 52.88	20.4	T	F51
89P	2017 09 25.50645	01 25 25.225	−00 05 54.39	20.4	T	F51
89P	2017 09 25.51932	01 25 24.596	−00 05 55.95	20.5	T	F51
89P	2017 09 28.45720	01 23 01.86	−00 11 36.1	18.9	T	G96
89P	2017 09 28.46255	01 23 01.57	−00 11 36.2			G96
89P	2017 09 28.47738	01 23 00.83	−00 11 38.3	18.5	T	G96
89P	2017 09 28.48272	01 23 00.60	−00 11 38.8	18.8	T	G96
89P	2017 09 29.52694	01 22 08.938	−00 13 36.29	20.6	T	F51
89P	2017 09 29.53858	01 22 08.340	−00 13 37.62	20.2	T	F51
89P	2017 09 29.55018	01 22 07.739	−00 13 38.92	20.3	T	F51

90P/Gehrels

90P	2017 07 30.17406	04 23 56.08	+26 59 18.2	17.8	N	J22
90P	2017 07 30.17734	04 23 56.60	+26 59 19.6	17.8	N	J22
90P	2017 07 30.18056	04 23 56.81	+26 59 22.7	17.8	N	J22
90P	2017 08 06.22152	04 34 11.93	+27 40 09.4	17.7	N	J22
90P	2017 08 06.22789	04 34 12.59	+27 40 08.9	17.7	N	J22
90P	2017 08 13.38678	04 44 15.44	+28 19 29.4	18.0	N	W96
90P	2017 08 13.41825	04 44 18.02	+28 19 37.7	17.9	N	KW96
90P	2017 08 24.13676	04 58 28.75	+29 14 43.8	17.9	N	J22
90P	2017 08 24.13834	04 58 28.78	+29 14 44.4	17.9	N	J22
90P	2017 08 24.13993	04 58 28.96	+29 14 47.0	17.9	N	J22
90P	2017 09 03.14796	05 10 32.90	+30 03 05.7	17.6	N	9 G40
90P	2017 09 03.17221	05 10 34.56	+30 03 12.5	17.5	N	9 G40
90P	2017 09 03.24348	05 10 39.32	+30 03 33.1	17.5	N	9 G40
90P	2017 09 16.16375	05 24 09.07	+31 02 47.0	17.6	N	K A77
90P	2017 09 16.16745	05 24 09.28	+31 02 47.4	17.6	N	K A77
90P	2017 09 17.06785	05 24 59.73	+31 06 50.1	18.0	N	585
90P	2017 09 17.06856	05 24 59.74	+31 06 50.4	17.5	N	585
90P	2017 09 17.06927	05 24 59.81	+31 06 50.0	17.5	N	585
90P	2017 09 17.07069	05 24 59.79	+31 06 51.2	17.5	N	585
90P	2017 09 17.07141	05 24 59.85	+31 06 50.1	17.5	N	585
90P	2017 09 17.07212	05 24 59.96	+31 06 50.3	17.4	N	585
90P	2017 09 17.07354	05 25 00.02	+31 06 50.6	17.4	N	585
90P	2017 09 17.07424	05 25 00.10	+31 06 51.6	17.2	N	585
90P	2017 09 17.07495	05 25 00.14	+31 06 51.6	17.6	N	585
90P	2017 09 19.09022	05 26 49.74	+31 15 52.3	17.6	N	I81
90P	2017 09 19.09588	05 26 50.03	+31 15 54.1	17.7	N	I81
90P	2017 09 19.10528	05 26 50.54	+31 15 56.5	18.2	N	I81
90P	2017 09 22.09953	05 29 25.29	+31 29 15.9	15.2	N	I81
90P	2017 09 22.10095	05 29 25.28	+31 29 16.5	15.1	N	I81
90P	2017 09 25.07220	05 31 48.60	+31 42 26.0	18.0	N	B96
90P	2017 09 25.07383	05 31 48.61	+31 42 26.9	18.0	N	B96
90P	2017 09 25.07546	05 31 48.80	+31 42 27.6	18.5	N	B96
90P	2017 09 25.07711	05 31 48.78	+31 42 27.9	17.6	N	B96
90P	2017 09 25.08037	05 31 48.98	+31 42 28.1	17.7	N	B96
90P	2017 09 25.60333	05 32 13.05	+31 44 49.3	17.8	T	T08
90P	2017 09 25.61160	05 32 13.39	+31 44 51.0	18.0	T	T08
90P	2017 09 25.62032	05 32 13.71	+31 44 53.7	17.3	T	T08
90P	2017 09 25.63020	05 32 14.16	+31 44 56.4	17.4	T	T08

90P	2017 09 28.77613	05 34 32.32	+31 58 47.2			K	Q11
90P	2017 09 28.78219	05 34 32.58	+31 58 49.0			K	Q11
90P	2017 09 28.78826	05 34 32.84	+31 58 50.6	17.3	T	K	Q11
90P	2017 09 29.59776	05 35 06.37	+32 02 25.4	17.4	T		T08
90P	2017 09 29.60853	05 35 06.75	+32 02 27.9	17.5	T		T08
90P	2017 09 29.62076	05 35 07.27	+32 02 31.1	17.3	T		T08
90P	2017 09 29.63342	05 35 07.77	+32 02 35.0	17.4	T		T08
90P	2017 10 01.08097	05 36 05.68	+32 08 54.5	18.2	N	K	A71
90P	2017 10 01.08968	05 36 06.07	+32 08 57.5	18.1	N	K	A71

94P/Russell

94P	2017 03 04.68276	15 08 11.25	−11 30 39.6	17.0	T	K	D95
94P	2017 03 04.69247	15 08 11.48	−11 30 41.0			K	D95
94P	2017 03 04.69571	15 08 11.57	−11 30 40.6			K	D95
94P	2017 07 05.84201	14 27 08.08	−12 42 43.9	18.8	N	K	160
94P	2017 07 05.84422	14 27 08.20	−12 42 44.8	19.1	N	K	160
94P	2017 07 05.84644	14 27 08.30	−12 42 45.6	18.8	N	K	160

96P/Machholz

96P	2017 06 26.81462	22 32 59.81	−59 20 14.4			1	Q62
96P	2017 06 26.81777	22 32 59.81	−59 20 19.9	19.3	T	1	Q62
96P	2017 08 06.00567	18 34 26.49	−81 55 21.1	17.7	N		W96
96P	2017 08 06.03842	18 33 42.40	−81 55 29.7	17.7	N		W96
96P	2017 08 06.07600	18 32 51.17	−81 55 40.1	17.5	N		W96
96P	2017 08 18.67951	15 05 49.36	−77 30 16.1	18	T		C51
Geocentric position (km)		+ 626.0491	− 1253.8771	− 6724.5769			
96P	2017 08 18.74496	15 05 16.55	−77 27 53.7				C51
Geocentric position (km)		+ 630.1430	− 1241.4900	− 6726.4937			
96P	2017 08 18.74509	15 05 16.55	−77 27 53.6				C51
Geocentric position (km)		+ 611.7183	− 1321.9434	− 6712.8413			
96P	2017 08 18.81054	15 04 43.92	−77 25 31.1				C51
Geocentric position (km)		+ 615.8932	− 1309.5677	− 6714.8812			
96P	2017 08 18.94144	15 03 39.33	−77 20 45.5				C51
Geocentric position (km)		+ 624.1535	− 1284.7898	− 6718.9024			
96P	2017 08 19.00690	15 03 07.48	−77 18 22.4				C51
Geocentric position (km)		+ 628.2384	− 1272.3879	− 6720.8796			

116P/Wild

116P	2017 07 25.46685	21 59 13.480	−16 46 30.68	21.4	T		F51
116P	2017 07 25.47707	21 59 13.077	−16 46 32.52	21.4	T		F51
116P	2017 07 25.48728	21 59 12.671	−16 46 34.73	21.3	T		F51
116P	2017 07 25.49750	21 59 12.265	−16 46 36.94	21.5	T		F51
116P	2017 07 30.45136	21 55 57.001	−17 04 13.81	21.0	T		F51
116P	2017 07 30.46232	21 55 56.545	−17 04 16.00	21.3	T		F51
116P	2017 07 30.47330	21 55 56.067	−17 04 18.50	20.9	T		F51
116P	2017 07 30.48427	21 55 55.610	−17 04 20.82	21.1	T		F51
116P	2017 08 18.40321	21 42 09.873	−18 10 08.57	20.9	T		F51
116P	2017 08 18.41318	21 42 09.414	−18 10 10.60	21.2	T		F51
116P	2017 08 18.42317	21 42 08.953	−18 10 12.57	20.9	T		F51
116P	2017 08 18.43313	21 42 08.492	−18 10 14.26	21.2	T		F51
116P	2017 08 20.404248	21 40 41.281	−18 16 24.99	21.1	T	29	568
116P	2017 08 20.405432	21 40 41.226	−18 16 25.15	20.9	T	29	568
116P	2017 08 20.406615	21 40 41.175	−18 16 25.40	20.7	T	29	568

118P/Shoemaker-Levy

118P	2017 03 04.57584	12 42 31.13	+02 06 57.5	17.3	T	K	D95
118P	2017 03 04.58014	12 42 30.95	+02 07 00.3			K	D95
118P	2017 03 04.58877	12 42 30.58	+02 07 03.7			K	D95

123P/West-Hartley

123P	2017 08 03.58027	02 44 04.589	+10 18 46.92	22.3	T		F51
123P	2017 08 03.59061	02 44 04.846	+10 18 48.62	22.1	T		F51
123P	2017 08 03.60098	02 44 05.110	+10 18 50.29	22.1	T		F51
123P	2017 08 03.61132	02 44 05.386	+10 18 51.29	22.2	T		F51
123P	2017 09 26.33745	02 46 01.61	+11 09 12.5	20.6	T		G96
123P	2017 09 26.34265	02 46 01.43	+11 09 11.9	20.1	T		G96
123P	2017 09 26.34788	02 46 01.31	+11 09 11.5	20.7	T		G96
123P	2017 09 26.35310	02 46 01.17	+11 09 12.0	20.4	T		G96
123P	2017 09 27.59902	02 45 28.659	+11 08 29.38	21.1	T		F51
123P	2017 09 27.60912	02 45 28.362	+11 08 29.15	21.4	T		F51
123P	2017 09 27.61928	02 45 28.094	+11 08 28.56	21.2	T		F51
123P	2017 09 27.62944	02 45 27.814	+11 08 28.32	21.4	T		F51

130P/McNaught-Hughes

130P	2017 05 28.65046	14 23 39.99	−10 33 26.0	18.5	T	K	D95
130P	2017 05 28.65901	14 23 39.58	−10 33 25.7			K	D95
130P	2017 05 28.66329	14 23 39.33	−10 33 24.6			K	D95
130P	2017 07 06.32651	14 13 17.33	−11 37 35.2	18.5	T		T05
130P	2017 07 06.33432	14 13 17.36	−11 37 35.6	18.6	T		T05
130P	2017 07 06.34275	14 13 17.43	−11 37 37.8	18.6	T		T05
130P	2017 07 06.35114	14 13 17.73	−11 37 41.7	18.6	T		T05
130P	2017 07 11.89521	14 15 07.81	−12 03 01.5	19.2	T	9	G40
130P	2017 07 11.90645	14 15 08.05	−12 03 04.5	19.4	T	9	G40
130P	2017 07 17.31806	14 17 42.40	−12 31 11.9	18.7	T		T08
130P	2017 07 17.32683	14 17 42.59	−12 31 14.2	18.9	T		T08
130P	2017 07 17.33513	14 17 42.98	−12 31 16.8	18.9	T		T08
130P	2017 07 17.34390	14 17 43.20	−12 31 19.0	18.5	T		T08
130P	2017 08 14.25306	14 42 14.47	−15 38 31.6	18.4	T		T08
130P	2017 08 14.26081	14 42 14.99	−15 38 35.8	18.4	T		T08
130P	2017 08 14.26962	14 42 15.57	−15 38 39.6	18.4	T		T08
130P	2017 08 14.27840	14 42 16.23	−15 38 44.5	18.8	T		T08
130P	2017 08 15.27946	14 43 28.21	−15 46 24.8	18.5	T		T08
130P	2017 08 15.28829	14 43 28.83	−15 46 30.4	18.5	T		T08
130P	2017 08 15.29715	14 43 29.48	−15 46 32.7	18.3	T		T08
130P	2017 08 15.30604	14 43 30.10	−15 46 37.0	18.3	T		T08
130P	2017 09 15.22271	15 30 06.22	−19 56 29.0	17.3	T		T08
130P	2017 09 15.22639	15 30 06.59	−19 56 30.3	17.4	T		T08
130P	2017 09 15.23191	15 30 07.19	−19 56 32.5	17.3	T		T08
130P	2017 09 15.23930	15 30 07.97	−19 56 36.4	17.6	T		T08

139P/Väisälä-Oterma

139P	2017 07 23.80307	02 32 02.54	+16 27 00.8			1	Q62
139P	2017 07 23.80633	02 32 02.72	+16 27 01.7	19.7	T	1	Q62
139P	2017 08 18.04412	02 49 15.27	+17 45 55.4	18.5	N	K	160
139P	2017 08 18.04648	02 49 15.32	+17 45 55.7	19.2	N	K	160
139P	2017 08 18.04884	02 49 15.41	+17 45 57.1	18.7	N	K	160
139P	2017 08 22.32901	02 51 17.25	+17 54 52.5	19.5	N	KW	96
139P	2017 08 22.35549	02 51 18.08	+17 54 54.1	19.6	N	KW	96

139P	2017 08 24.08804	02 52 02.41	+17 58 03.5	19.1	N	K	160
139P	2017 08 24.09012	02 52 02.46	+17 58 03.3	19.4	N	K	160
139P	2017 08 24.09220	02 52 02.51	+17 58 03.4	19.4	N	K	160
139P	2017 08 25.23223	02 52 29.84	+18 00 02.0	19.7	N		J22
139P	2017 08 25.23416	02 52 29.86	+18 00 02.9	19.7	N		J22
139P	2017 08 25.23608	02 52 29.90	+18 00 02.9	19.7	N		J22
139P	2017 08 30.04231	02 54 11.23	+18 07 08.7	19.0	N	K	I81
139P	2017 08 30.04658	02 54 11.31	+18 07 09.1	19.0	N	K	I81
139P	2017 08 30.05086	02 54 11.40	+18 07 09.4	19.2	N	K	I81
139P	2017 09 02.10962	02 55 03.08	+18 10 44.9	19.7	N	K	A77
139P	2017 09 02.12625	02 55 03.35	+18 10 46.5	19.7	N	K	A77
139P	2017 09 02.14289	02 55 03.57	+18 10 47.5	19.6	T	K	A77
139P	2017 09 27.23332	02 55 28.07	+18 09 41.2	19.3	N		J22
139P	2017 09 27.23769	02 55 28.00	+18 09 42.2	19.3	N		J22
139P	2017 09 27.25057	02 55 27.79	+18 09 42.8	19.3	N		J22
139P	2017 09 28.62543	02 55 08.43	+18 07 59.6	18.6	T	K	Q11
139P	2017 09 28.63148	02 55 08.32	+18 07 58.9			K	Q11
139P	2017 09 28.63753	02 55 08.21	+18 07 59.8			K	Q11
139P	2017 09 29.46158	02 54 55.31	+18 06 54.0	19.6	T		691
139P	2017 09 29.47734	02 54 55.01	+18 06 52.8	19.5	T		691
139P	2017 09 29.49310	02 54 54.81	+18 06 51.7	19.7	T		691

144P/Kushida

144P	2017 01 03.52247	13 23 32.52	−13 06 34.2				32H06
144P	2017 01 03.52486	13 23 32.71	−13 06 35.3				32H06
144P	2017 01 03.52725	13 23 32.93	−13 06 36.5	15.6	T		32H06
144P	2017 03 04.66685	13 52 28.43	−16 38 56.6	15.8	T	K	D95
144P	2017 03 04.67441	13 52 28.25	−16 38 54.5			K	D95

145P/Shoemaker-Levy

145P	2017 07 04.80653	02 28 51.43	+11 45 43.3			1	Q62
145P	2017 07 04.80935	02 28 51.77	+11 45 45.3	17.1	T	1	Q62
145P	2017 07 26.33835	03 13 52.89	+16 41 49.1	17.5	N		W96
145P	2017 07 26.36886	03 13 56.65	+16 42 14.1	17.3	N		W96
145P	2017 07 30.13610	03 21 48.12	+17 31 33.7	17.2	N		J22
145P	2017 07 30.14005	03 21 48.60	+17 31 34.9	17.2	N		J22
145P	2017 07 30.14398	03 21 48.98	+17 31 37.7	17.2	N		J22
145P	2017 08 03.37783	03 30 36.79	+18 26 12.3	16.7	T		H15
145P	2017 08 03.38415	03 30 37.57	+18 26 17.2	16.8	T		H15
145P	2017 08 03.39047	03 30 38.31	+18 26 23.1	16.7	T		H15
145P	2017 08 05.17721	03 34 20.28	+18 49 06.6	17.5	N	9	G40
145P	2017 08 05.18644	03 34 21.42	+18 49 13.6	17.5	N	9	G40
145P	2017 08 19.37501	04 03 16.02	+21 43 20.2	16.9	N		W96
145P	2017 08 19.40971	04 03 20.07	+21 43 44.7	16.9	N		W96
145P	2017 08 22.77233	04 10 00.79	+22 23 15.3	16.4	T		D29
145P	2017 08 22.77587	04 10 01.18	+22 23 17.6	16.2	T		D29
145P	2017 08 22.78824	04 10 02.65	+22 23 26.6	16.3	T		D29
145P	2017 08 22.79177	04 10 03.11	+22 23 28.7	16.6	T		D29
145P	2017 08 22.80415	04 10 04.50	+22 23 38.0	16.4	T		D29
145P	2017 08 22.80768	04 10 04.95	+22 23 40.0	16.3	T		D29
145P	2017 08 26.15507	04 16 38.14	+23 02 29.8	16.5	N	9	G40
145P	2017 08 26.18293	04 16 41.39	+23 02 49.0	16.7	N	9	G40
145P	2017 08 26.20081	04 16 43.42	+23 03 01.8	15.8	N	2	G40
145P	2017 08 26.20175	04 16 43.56	+23 03 02.1	15.9	N	2	G40
145P	2017 08 26.20258	04 16 43.67	+23 03 02.8	16.0	N	2	G40
145P	2017 08 28.10554	04 20 24.48	+23 24 50.4	16.8	N		J22
145P	2017 08 28.10941	04 20 24.90	+23 24 53.5	16.8	N		J22
145P	2017 08 28.11134	04 20 25.15	+23 24 54.5	16.8	N		J22
145P	2017 08 31.61958	04 27 05.62	+24 04 40.0	18	T		C51
Geocentric position (km)		− 516.4479	+ 6140.3745	+ 3009.8650			
145P	2017 08 31.88152	04 27 35.21	+24 07 36.8				C51
Geocentric position (km)		− 540.3958	+ 6155.6231	+ 2974.5603			
145P	2017 09 01.01242	04 27 49.99	+24 09 05.5				C51
Geocentric position (km)		− 556.7389	+ 6144.5316	+ 2994.3715			
145P	2017 09 01.08890	04 27 58.95	+24 09 54.3	17.0	N		C10
145P	2017 09 01.09947	04 28 00.14	+24 10 01.8	16.8	N		C10
145P	2017 09 01.20877	04 28 12.11	+24 11 17.1	18	T		C51
Geocentric position (km)		− 581.1558	+ 6127.6818	+ 3024.0622			
145P	2017 09 01.27423	04 28 19.47	+24 12 00.1				C51
Geocentric position (km)		− 589.2661	+ 6122.0186	+ 3033.9257			
145P	2017 09 01.27435	04 28 19.49	+24 12 01.1				C51
Geocentric position (km)		− 580.8508	+ 6159.3984	+ 2959.3052			
145P	2017 09 01.33980	04 28 26.91	+24 12 45.2				C51
Geocentric position (km)		− 589.0032	+ 6153.8296	+ 2969.2426			
145P	2017 09 01.40526	04 28 34.23	+24 13 28.8				C51
Geocentric position (km)		− 597.1368	+ 6148.2650	+ 2979.1148			
145P	2017 09 01.47071	04 28 41.63	+24 14 13.4				C51
Geocentric position (km)		− 605.2577	+ 6142.6599	+ 2988.9949			
145P	2017 09 01.53616	04 28 49.00	+24 14 57.3				C51
Geocentric position (km)		− 613.3656	+ 6137.0358	+ 2998.8687			
145P	2017 09 01.60161	04 28 56.41	+24 15 41.5				C51
Geocentric position (km)		− 621.4652	+ 6131.3521	+ 3008.7832			
145P	2017 09 01.66706	04 29 03.72	+24 16 25.3				C51
Geocentric position (km)		− 629.5412	+ 6125.6916	+ 3018.6048			
145P	2017 09 01.73251	04 29 11.07	+24 17 08.7				C51
Geocentric position (km)		− 637.6066	+ 6119.9900	+ 3028.4397			
145P	2017 09 01.86354	04 29 25.81	+24 18 37.2				C51
Geocentric position (km)		− 645.6808	+ 6146.1582	+ 2973.5354			
145P	2017 09 02.12535	04 29 55.17	+24 21 33.1				C51
Geocentric position (km)		− 677.8987	+ 6123.4732	+ 3012.8302			
145P	2017 09 02.25625	04 30 09.86	+24 23 00.9				C51
Geocentric position (km)		− 693.9243	+ 6111.9730	+ 3032.4280			
145P	2017 09 02.38729	04 30 24.53	+24 24 29.0				C51
Geocentric position (km)		− 702.2270	+ 6138.1473	+ 2977.4431			
145P	2017 09 02.72922	04 31 03.13	+24 28 17.0	15.4	T		349
145P	2017 09 02.73546	04 31 03.81	+24 28 21.2				349
145P	2017 09 02.74250	04 31 04.59	+24 28 26.0				349
145P	2017 09 03.77883	04 32 59.86	+24 39 58.2			K	D81
145P	2017 09 03.78035	04 33 00.03	+24 39 59.2			K	D81
145P	2017 09 03.78188	04 33 00.12	+24 40 00.4			K	D81
145P	2017 09 03.78340	04 33 00.34	+24 40 02.0	15.9	T	K	D81
145P	2017 09 09.60944	04 43 32.81	+25 44 09.4	16.5	T		T08
145P	2017 09 09.61923	04 43 33.84	+25 44 15.7	16.4	T		T08
145P	2017 09 09.62877	04 43 34.81	+25 44 22.0	16.3	T		T08
145P	2017 09 09.63865	04 43 35.86	+25 44 28.3	16.9	T		T08
145P	2017 09 11.60967	04 47 03.10	+26 05 53.4	15.8	T		T05
145P	2017 09 11.61962	04 47 04.12	+26 05 59.8	15.8	T		T05

145P	2017 09 11.62902	04 47 05.08	+26 06 06.1	15.8	T	T05
145P	2017 09 11.63572	04 47 05.75	+26 06 10.7	15.7	T	T05
145P	2017 09 11.63890	04 47 06.08	+26 06 12.7	15.7	T	T05
145P	2017 09 11.64621	04 47 06.87	+26 06 17.0	16.8	T	T05
145P	2017 09 15.70280	04 54 01.20	+26 49 59.9			D95
145P	2017 09 15.70993	04 54 01.92	+26 50 04.6			D95
145P	2017 09 15.71990	04 54 02.90	+26 50 11.1	15.1	T	D95
145P	2017 09 16.13898	04 54 44.62	+26 54 40.8	16.2	N	K A77
145P	2017 09 16.14223	04 54 44.93	+26 54 42.9	16.1	N	K A77
145P	2017 09 16.14551	04 54 45.29	+26 54 45.1	16.2	N	K A77
145P	2017 09 17.05153	04 56 14.89	+27 04 26.1	16.1	N	585
145P	2017 09 17.05224	04 56 14.97	+27 04 25.9	15.9	N	585
145P	2017 09 17.05294	04 56 15.00	+27 04 27.1	15.9	N	585
145P	2017 09 17.05365	04 56 15.06	+27 04 27.4	15.8	N	585
145P	2017 09 17.05436	04 56 15.15	+27 04 28.1	16.0	N	585
145P	2017 09 17.05507	04 56 15.27	+27 04 28.6	15.8	N	585
145P	2017 09 17.05578	04 56 15.32	+27 04 28.8	16.0	N	585
145P	2017 09 17.05648	04 56 15.37	+27 04 28.6	15.9	N	585
145P	2017 09 17.05720	04 56 15.46	+27 04 29.8	15.8	N	585
145P	2017 09 17.05791	04 56 15.53	+27 04 30.4	15.8	N	585
145P	2017 09 17.05862	04 56 15.61	+27 04 30.7	15.9	N	585
145P	2017 09 17.05933	04 56 15.66	+27 04 31.1	16.0	N	585
145P	2017 09 19.04814	04 59 29.03	+27 25 44.5	16.9	N	I81
145P	2017 09 19.05550	04 59 29.77	+27 25 49.0	17.3	N	I81
145P	2017 09 19.06054	04 59 30.26	+27 25 52.5	17.2	N	I81
145P	2017 09 20.29696	05 01 28.03	+27 39 09.7	16.0	N	W96
145P	2017 09 20.32975	05 01 31.01	+27 39 31.7	16.5	N	W96
145P	2017 09 22.08285	05 04 14.61	+27 58 01.2	16.2	N	I81
145P	2017 09 22.08993	05 04 15.25	+27 58 05.8	16.1	N	I81
145P	2017 09 22.09562	05 04 15.77	+27 58 09.4	16.1	N	I81
145P	2017 09 23.60474	05 06 33.17	+28 14 14.0	16.6	T	T05
145P	2017 09 23.61411	05 06 34.03	+28 14 19.8	17.2	T	T05
145P	2017 09 23.62390	05 06 34.82	+28 14 26.0	16.5	T	T05
145P	2017 09 23.63364	05 06 35.70	+28 14 32.4	16.5	T	T05
145P	2017 09 24.06737	05 07 14.83	+28 19 03.9	16.7	N	B96
145P	2017 09 24.06900	05 07 15.01	+28 19 05.6	16.6	N	B96
145P	2017 09 24.07065	05 07 15.08	+28 19 06.0	16.7	N	B96
145P	2017 09 24.07228	05 07 15.32	+28 19 07.3	16.7	N	B96
145P	2017 09 24.07391	05 07 15.40	+28 19 08.1	16.8	N	B96
145P	2017 09 24.07554	05 07 15.59	+28 19 09.8	16.9	N	B96
145P	2017 09 25.06359	05 08 43.27	+28 29 36.4	16.8	N	B96
145P	2017 09 25.06522	05 08 43.42	+28 29 37.2	16.7	N	B96
145P	2017 09 25.06686	05 08 43.58	+28 29 38.9	16.6	N	B96
145P	2017 09 25.06850	05 08 43.67	+28 29 39.9	16.9	N	B96
145P	2017 09 25.07013	05 08 43.83	+28 29 40.8	16.7	N	B96
145P	2017 09 25.59186	05 09 29.44	+28 35 16.0	16.1	T	T08
145P	2017 09 25.60021	05 09 30.13	+28 35 21.4	16.0	T	T08
145P	2017 09 25.60890	05 09 30.86	+28 35 26.7	16.1	T	T08
145P	2017 09 25.61747	05 09 31.59	+28 35 32.4	16.2	T	T08
145P	2017 09 26.06857	05 10 10.97	+28 40 13.4	15.6	N	I81
145P	2017 09 26.06929	05 10 11.07	+28 40 14.3	15.6	N	I81
145P	2017 09 26.06999	05 10 11.11	+28 40 14.5	15.4	N	I81
145P	2017 09 26.07070	05 10 11.17	+28 40 15.2	15.5	N	I81
145P	2017 09 26.07142	05 10 11.22	+28 40 15.6	15.4	N	I81
145P	2017 09 26.07212	05 10 11.30	+28 40 15.6	15.5	N	I81
145P	2017 09 26.07283	05 10 11.33	+28 40 16.2	15.5	N	I81
145P	2017 09 26.07353	05 10 11.37	+28 40 17.0	15.5	N	I81
145P	2017 09 26.07423	05 10 11.44	+28 40 17.3	15.5	N	I81
145P	2017 09 26.07493	05 10 11.52	+28 40 17.8	15.5	N	I81
145P	2017 09 28.75098	05 13 57.92	+29 08 36.8	16.0	T	Q11
145P	2017 09 28.75525	05 13 58.25	+29 08 39.6			Q11
145P	2017 09 28.76383	05 13 58.94	+29 08 45.0			Q11
145P	2017 09 29.58890	05 15 06.41	+29 17 29.4	16.1	T	T08
145P	2017 09 29.59959	05 15 07.29	+29 17 36.3	16.2	T	T08
145P	2017 09 29.61042	05 15 08.12	+29 17 43.0	16.1	T	T08
145P	2017 09 29.62283	05 15 09.13	+29 17 51.1	16.0	T	T08
145P	2017 09 30.13807	05 15 50.76	+29 23 14.6	16.5	N	K A71
145P	2017 09 30.14574	05 15 51.41	+29 23 19.1	16.9	N	K A71
145P	2017 09 30.15340	05 15 52.00	+29 23 23.7	16.8	N	K A71

157P/Tritton

157P	2017 05 28.56008	13 12 55.50	−17 59 32.8	18.4	T	K D95
157P	2017 05 28.56332	13 12 55.45	−17 59 30.7			K D95
157P	2017 07 01.53567	13 14 57.87	−16 36 47.2	20.3	N	K Q68
157P	2017 07 01.55194	13 14 58.25	−16 36 45.7	19.5	N	K Q68
157P	2017 07 11.45847	13 19 08.99	−16 36 51.0	19.4	N	K Q68
157P	2017 07 11.47475	13 19 09.49	−16 36 49.6	20.0	N	K Q68
157P	2017 07 13.41687	13 20 07.76	−16 37 56.1	20.0	N	K Q68
157P	2017 07 13.43442	13 20 08.26	−16 37 56.3	19.8	N	K Q68
157P	2017 07 17.42058	13 22 16.34	−16 41 17.4	20.2	N	K Q68
157P	2017 07 17.43689	13 22 16.92	−16 41 18.3	19.6	N	K Q68
157P	2017 07 18.40219	13 22 49.58	−16 42 19.9	20.1	N	K Q68
157P	2017 07 18.41912	13 22 50.15	−16 42 21.2	19.9	N	K Q68

159P/LONEOS

159P	2017 09 03.36664	02 23 56.05	−03 34 58.3	20.4	N	KW96
159P	2017 09 03.40438	02 23 55.79	−03 35 00.4	20.4	N	KW96
159P	2017 09 05.35988	02 23 43.01	−03 36 20.8	19.6	N	KW96
159P	2017 09 05.38961	02 23 42.68	−03 36 21.4	20.1	N	KW96
159P	2017 09 14.52021	02 21 51.225	−03 43 53.30	20.8	T	F51
159P	2017 09 14.53141	02 21 51.011	−03 43 53.69	20.6	T	F51
159P	2017 09 14.54262	02 21 50.829	−03 43 54.47	20.3	T	F51
159P	2017 09 14.55382	02 21 50.603	−03 43 54.88	20.6	T	F51
159P	2017 09 22.47096	02 19 06.157	−03 51 07.75	20.3	T	F51
159P	2017 09 22.48336	02 19 05.833	−03 51 08.43	20.4	T	F51
159P	2017 09 22.49580	02 19 05.523	−03 51 09.12	20.2	T	F51
159P	2017 09 22.50822	02 19 05.194	−03 51 09.69	20.4	T	F51
159P	2017 09 25.70221	02 17 42.03	−03 53 56.8	19.2	T	K Q11
159P	2017 09 25.70825	02 17 41.86	−03 53 56.7			K Q11
159P	2017 09 25.71431	02 17 41.70	−03 53 57.4			K Q11

164P/Christensen

164P	2017 07 28.67974	20 54 34.22	−33 10 15.8			1 Q62
164P	2017 07 28.68234	20 54 34.06	−33 10 17.2			1 Q62
164P	2017 07 28.68494	20 54 33.93	−33 10 18.9	20.2	T	1 Q62
164P	2017 07 30.39287	20 52 58.123	−33 23 29.62	19.7	T	F51
164P	2017 07 30.40255	20 52 57.554	−33 23 33.97	19.8	T	F51

164P	2017 07 30.41225	20 52 56.997	−33 23 38.51	19.9	T		F51
164P	2017 07 30.42192	20 52 56.426	−33 23 42.90	19.7	T		F51
164P	2017 08 14.35771	20 38 18.617	−35 01 50.13	20.1	T		F51
164P	2017 08 14.36770	20 38 18.019	−35 01 53.38	20.2	T		F51
164P	2017 08 14.37766	20 38 17.404	−35 01 56.63	20.2	T		F51

185P/Petriew

185P	2017 07 18.05237	17 23 26.43	−04 06 26.2	21.5	N		KW96
185P	2017 07 18.08660	17 23 24.20	−04 06 27.2	21.3	N		KW96
185P	2017 07 19.03493	17 22 24.65	−04 06 38.1	21.2	N		KW96
185P	2017 07 19.08007	17 22 21.81	−04 06 40.2	21.4	N		KW96
185P	2017 09 18.48473	17 15 48.04	−08 06 15.5			K	Q11
185P	2017 09 18.49327	17 15 48.47	−08 06 19.0	19.4	T	K	Q11

188P/LINEAR-Mueller

188P	2017 08 26.21034	06 17 17.34	+32 25 44.9	18.7	T		9 G40
188P	2017 08 26.23833	06 17 19.92	+32 25 47.3	18.4	T		9 G40
188P	2017 08 31.61334	06 25 32.263	+32 35 24.79	19.9	T		F51
188P	2017 08 31.61886	06 25 32.738	+32 35 25.47	20.1	T		F51
188P	2017 08 31.62434	06 25 33.228	+32 35 26.07	20.0	T		F51
188P	2017 09 21.78122	06 54 14.57	+33 09 00.9			K	D81
188P	2017 09 21.81208	06 54 16.81	+33 09 04.2	18.5	T	K	D81
188P	2017 09 24.09078	06 56 58.29	+33 12 38.5	17.3	N		B96
188P	2017 09 24.09404	06 56 58.49	+33 12 39.1	26.2	N		B96
188P	2017 09 24.09568	06 56 58.65	+33 12 40.8	17.5	N		B96
188P	2017 09 24.09731	06 56 58.75	+33 12 41.5	17.5	N		B96
188P	2017 09 24.09895	06 56 58.79	+33 12 43.5	18.7	N		B96

189P/NEAT

189P	2017 06 20.43218	14 26 37.36	−43 19 14.2				1 Q62
189P	2017 06 20.43434	14 26 37.48	−43 19 09.3				1 Q62
189P	2017 06 20.43596	14 26 37.57	−43 19 05.5	18.3	T		1 Q62
189P	2017 07 14.32408	15 17 59.96	−23 43 15.8	18.1	T		T05
189P	2017 07 14.33255	15 18 01.33	−23 42 48.2	18.1	T		T05
189P	2017 07 14.34101	15 18 02.75	−23 42 19.5	18.0	T		T05
189P	2017 07 14.34949	15 18 04.08	−23 41 50.4	18.1	T		T05
189P	2017 07 20.31531	15 35 41.87	−18 14 05.0	18.2	T		T08
189P	2017 07 20.32359	15 35 43.28	−18 13 38.1	17.9	T		T08
189P	2017 07 20.33186	15 35 44.75	−18 13 11.0	18.0	T		T08
189P	2017 07 20.34013	15 35 46.22	−18 12 43.4	18.0	T		T08
189P	2017 07 22.95248	15 43 52.17	−15 50 51.4	18.5	N		9 G40
189P	2017 07 22.95479	15 43 52.66	−15 50 44.3				9 G40
189P	2017 07 23.93661	15 46 58.41	−14 57 58.1	18.4	N		9 G40
189P	2017 07 23.94690	15 47 00.30	−14 57 24.8	18.2	N		9 G40
189P	2017 07 27.35314	15 57 55.74	−11 57 36.0	18.5	T		T05
189P	2017 07 27.36212	15 57 57.44	−11 57 08.4	18.2	T		T05
189P	2017 07 27.37166	15 57 59.21	−11 56 38.3	18.3	T		T05
189P	2017 07 27.38064	15 58 00.87	−11 56 09.7	18.1	T		T05
189P	2017 08 08.26738	16 37 40.380	−02 29 20.20	19.5	T		F51
189P	2017 08 08.27865	16 37 42.576	−02 28 51.24	19.4	T		F51
189P	2017 08 08.30113	16 37 46.966	−02 27 53.56	19.6	T		F51
189P	2017 08 14.83534	16 59 59.82	+01 51 22.2	18.8	N	K	A71
189P	2017 08 14.84303	17 00 01.30	+01 51 39.4	18.9	N	K	A71
189P	2017 08 14.85007	17 00 02.68	+01 51 54.4	18.9	N	K	A71
189P	2017 08 19.90829	17 17 14.52	+04 44 38.0	18.6	N		9 G40
189P	2017 08 19.92231	17 17 17.33	+04 45 04.9	18.8	N		9 G40
189P	2017 08 19.92921	17 17 18.70	+04 45 17.8	18.8	N		9 G40
189P	2017 08 19.93651	17 17 20.13	+04 45 31.7	18.9	N		9 G40
189P	2017 08 23.81966	17 30 30.07	+06 41 22.2	19.5	N	K	A71
189P	2017 08 23.82479	17 30 31.09	+06 41 31.3	19.3	N	K	A71

202P/Scotti

202P	2016 12 27.67225	10 49 57.44	+05 07 56.9				1 Q62
202P	2016 12 27.67590	10 49 57.52	+05 07 56.5	21.4	T		1 Q62

213P/Van Ness

213P	2017 05 18.73557	19 26 09.30	−33 17 41.1	16.4	T		349
213P	2017 05 18.74039	19 26 09.40	−33 17 40.6				349
213P	2017 05 20.71021	19 27 00.92	−33 16 49.0	16.3	T		349
213P	2017 05 20.72042	19 27 01.18	−33 16 48.4				349
213P	2017 06 23.60383	19 21 32.39	−32 29 52.7	15.1	T		D95
213P	2017 06 23.60676	19 21 32.24	−32 29 51.8				D95
213P	2017 06 23.61261	19 21 31.97	−32 29 50.9				D95
213P	2017 06 23.64132	19 21 30.66	−32 29 38.4	15.5	N		Q68
213P	2017 06 23.67454	19 21 29.19	−32 29 32.2	15.5	N		Q68
213P	2017 06 30.50629	19 16 18.99	−32 04 55.3	15.3	N		Q68
213P	2017 06 30.54732	19 16 16.90	−32 04 45.5	15.3	N		Q68
213P	2017 07 01.60784	19 15 24.16	−32 00 14.8	15.2	N		Q68
213P	2017 07 01.64249	19 15 22.36	−32 00 05.5	15.2	N		Q68
213P	2017 07 02.51986	19 14 38.68	−31 56 12.0	15.3	N		Q68
213P	2017 07 02.55284	19 14 36.86	−31 56 03.6	15.2	N		Q68
213P	2017 07 07.29295	19 10 31.13	−31 32 45.4	15.0	N		W96
213P	2017 07 07.31468	19 10 29.96	−31 32 37.7	15.0	N		W96
213P	2017 07 07.33715	19 10 28.67	−31 32 30.5	15.0	N		W96
213P	2017 07 07.56987	19 10 17.04	−31 31 23.1				349
213P	2017 07 07.57606	19 10 16.68	−31 31 21.5	14.3	T		349
213P	2017 07 07.59298	19 10 15.70	−31 31 07.8	15.2	N		Q68
213P	2017 07 07.67230	19 10 11.26	−31 30 42.0	15.1	N		Q68
213P	2017 07 07.68902	19 10 10.35	−31 30 35.8	15.1	N		Q68
213P	2017 07 11.53239	19 06 48.11	−31 08 36.8	14.9	N		Q68
213P	2017 07 11.56483	19 06 46.29	−31 08 24.8	15.2	N		Q68
213P	2017 07 11.94292	19 06 26.93	−31 06 06.7	15.6	T		Y00
213P	2017 07 11.95579	19 06 26.24	−31 06 02.2	15.6	T		Y00
213P	2017 07 11.97035	19 06 25.43	−31 05 57.3	15.7	T		Y00
213P	2017 07 13.65859	19 04 56.65	−30 55 21.7	15.4	N		Q68
213P	2017 07 13.68176	19 04 55.33	−30 55 12.9	15.3	N		Q68
213P	2017 07 15.35463	19 03 28.96	−30 44 17.2	15.1	N		W96
213P	2017 07 15.38132	19 03 27.54	−30 44 04.9	15.0	N		W96
213P	2017 07 15.63029	19 03 15.25	−30 42 26.9	15.3	N		Q68
213P	2017 07 15.65265	19 03 14.08	−30 42 17.6	15.3	N		Q68
213P	2017 07 16.05525	19 02 53.75	−30 39 42.8	14.9	N		J22
213P	2017 07 16.05919	19 02 53.58	−30 39 41.0	14.9	N		J22
213P	2017 07 16.06312	19 02 53.35	−30 39 39.8	14.9	N		J22
213P	2017 07 17.49509	19 01 41.93	−30 29 41.3	15.4	N		Q68
213P	2017 07 17.53118	19 01 40.02	−30 29 25.8	15.5	N		Q68
213P	2017 07 18.50558	19 00 52.19	−30 22 33.4				1 Q62
213P	2017 07 18.50722	19 00 52.10	−30 22 32.5	14.0	T		1 Q62
213P	2017 07 18.62019	19 00 46.28	−30 21 51.9	14.2	T		349

213P	2017 07 18.62711	19 00 45.94	−30 21 48.7			349
213P	2017 07 19.57127	19 00 00.52	−30 14 52.0	15.4	N	Q68
213P	2017 07 19.62577	18 59 57.76	−30 14 28.1	15.5	N	Q68
213P	2017 07 20.42122	18 59 20.27	−30 08 44.9	15.3	T	T08
213P	2017 07 20.42997	18 59 19.82	−30 08 40.9	15.3	T	T08
213P	2017 07 20.44699	18 59 18.97	−30 08 33.2	15.4	T	T08
213P	2017 07 20.56804	18 59 13.44	−30 07 32.3	15.5	N	Q68
213P	2017 07 20.60103	18 59 11.80	−30 07 17.6	15.6	N	Q68
213P	2017 07 21.00600	18 58 53.06	−30 04 25.5	14.7	N	212
213P	2017 07 21.00887	18 58 52.96	−30 04 24.6	14.7	N	212
213P	2017 07 21.01318	18 58 52.69	−30 04 21.9	14.8	N	212
213P	2017 07 23.90016	18 56 44.93	−29 42 07.9	15.9	T	Y00
213P	2017 07 23.91197	18 56 44.42	−29 42 02.4	15.9	T	Y00
213P	2017 07 23.92373	18 56 43.88	−29 41 56.8	15.9	T	Y00
213P	2017 07 24.22651	18 56 30.27	−29 39 35.5	15.2	N	W96
213P	2017 07 24.26012	18 56 28.88	−29 39 17.1	14.9	N	W96
213P	2017 07 26.41302	18 55 01.77	−29 22 14.1	16.0	T	T05
213P	2017 07 26.42190	18 55 01.40	−29 22 10.0	15.9	T	T05
213P	2017 07 26.43030	18 55 01.03	−29 22 05.7	15.9	T	T05
213P	2017 07 26.43919	18 55 00.65	−29 22 01.5	16.0	T	T05
213P	2017 07 29.12466	18 53 22.63	−28 59 59.5	15.4	N	750
213P	2017 07 29.14917	18 53 21.81	−28 59 45.8	15.5	N	750
213P	2017 07 29.55858	18 53 07.41	−28 56 11.6	16.8	N	467
213P	2017 07 29.55985	18 53 07.36	−28 56 11.1	17.0	N	467
213P	2017 07 29.56110	18 53 07.30	−28 56 10.3	16.8	N	467
213P	2017 07 31.84324	18 51 55.83	−28 37 03.4	15.9	N	K 160
213P	2017 07 31.84580	18 51 55.81	−28 37 01.7	16.0	N	K 160
213P	2017 07 31.84836	18 51 55.72	−28 37 00.9	16.1	N	K 160
213P	2017 07 31.86221	18 51 55.28	−28 36 53.0	15.6	N	K A77
213P	2017 07 31.90755	18 51 53.89	−28 36 30.8	15.6	N	K A77
213P	2017 07 31.94339	18 51 52.69	−28 36 11.3	15.8	N	K A77
213P	2017 08 03.35779	18 50 47.92	−28 15 23.7	16.1	T	T05
213P	2017 08 03.36562	18 50 47.71	−28 15 19.7	16.1	T	T05
213P	2017 08 03.36952	18 50 47.62	−28 15 17.7	15.8	T	T05
213P	2017 08 03.38062	18 50 47.27	−28 15 11.9	16.2	T	T05
213P	2017 08 05.45016	18 50 00.96	−27 57 01.8	15.9	N	E94
213P	2017 08 05.48580	18 50 00.23	−27 56 43.1	16.0	N	E94
213P	2017 08 05.49080	18 50 00.04	−27 56 41.0	16.1	N	E94
213P	2017 08 12.45515	18 48 31.25	−26 55 16.2	14.2	T	349
213P	2017 08 12.46193	18 48 31.18	−26 55 12.9			349
213P	2017 08 12.55424	18 48 30.49	−26 54 23.9			900
213P	2017 08 12.56138	18 48 30.45	−26 54 19.6	15.2	T	900
213P	2017 08 16.00087	18 48 26.34	−26 23 41.1	15.9	N	W96
213P	2017 08 16.02759	18 48 26.35	−26 23 27.4	15.9	N	W96
213P	2017 08 16.05371	18 48 26.34	−26 23 13.0	15.8	N	W96
213P	2017 08 17.70343	18 48 32.44	−26 08 58.4	19.5	N	C97
213P	2017 08 17.76090	18 48 32.46	−26 08 36.8	17.0	N	C97
213P	2017 08 18.81695	18 48 41.96	−25 58 53.9	16.6	N	K A71
213P	2017 08 18.82231	18 48 42.02	−25 58 51.2	16.6	N	K A71
213P	2017 08 18.82832	18 48 42.08	−25 58 47.4	16.7	N	K A71
213P	2017 08 21.69357	18 49 14.79	−25 33 44.8	17.5	N	C97
213P	2017 08 21.78180	18 49 16.78	−25 33 04.3	18.1	N	C97
213P	2017 08 22.81315	18 49 34.70	−25 23 47.9	17.0	N	K 107
213P	2017 08 22.82248	18 49 34.83	−25 23 42.6	16.9	N	K 107
213P	2017 08 22.83182	18 49 34.97	−25 23 38.4	16.8	N	K 107
213P	2017 08 22.84545	18 49 35.20	−25 23 30.7	16.1	N	K 107
213P	2017 08 24.34919	18 50 04.07	−25 10 23.1	16.8	T	T05
213P	2017 08 24.35121	18 50 04.09	−25 10 22.1	16.9	T	T05
213P	2017 08 24.35769	18 50 04.24	−25 10 18.5	16.9	T	T05
213P	2017 08 24.35966	18 50 04.36	−25 10 18.0	16.1	T	T05
213P	2017 08 24.36614	18 50 04.39	−25 10 14.2	16.8	T	T05
213P	2017 08 24.36813	18 50 04.53	−25 10 13.7	16.2	T	T05
213P	2017 08 24.37456	18 50 04.60	−25 10 09.9	16.2	T	T05
213P	2017 08 24.37657	18 50 04.65	−25 10 09.2	16.2	T	T05
213P	2017 08 24.51478	18 50 07.63	−25 08 58.3			K D81
213P	2017 08 24.51866	18 50 07.80	−25 08 56.5	15.2	T	K D81
213P	2017 08 26.51045	18 50 54.53	−24 51 41.6	16.4	N	K 367
213P	2017 08 26.51328	18 50 54.61	−24 51 40.4	16.3	N	K 367
213P	2017 08 26.51612	18 50 54.69	−24 51 39.2	16.2	N	K 367
213P	2017 08 27.48208	18 51 20.40	−24 43 19.3	15.5	T	D95
213P	2017 08 27.48501	18 51 20.46	−24 43 18.0			D95
213P	2017 08 27.48940	18 51 20.56	−24 43 15.5			D95
213P	2017 08 28.34211	18 51 44.85	−24 35 55.8	16.7	T	T05
213P	2017 08 28.35028	18 51 45.07	−24 35 51.5	16.7	T	T05
213P	2017 08 28.35858	18 51 45.38	−24 35 47.5	15.8	T	T05
213P	2017 08 28.36679	18 51 45.52	−24 35 42.9	16.7	T	T05
213P	2017 08 29.97410	18 52 35.66	−24 22 00.5	16.2	N	9 G40
213P	2017 08 29.97883	18 52 35.82	−24 21 57.7	16.5	N	9 G40
213P	2017 09 03.35853	18 55 19.05	−23 44 59.2	16.5	T	T08
213P	2017 09 03.36708	18 55 19.34	−23 44 55.4	16.3	T	T08
213P	2017 09 03.37666	18 55 19.79	−23 44 50.7	16.0	T	T08
213P	2017 09 06.91605	18 57 58.93	−23 15 26.1	16.9	N	9 G40
213P	2017 09 06.92500	18 57 59.30	−23 15 21.3	16.5	N	9 G40
213P	2017 09 10.86619	19 01 23.41	−22 43 01.4	16.4	N	J22
213P	2017 09 10.87030	19 01 23.64	−22 42 59.5	16.4	N	J22
213P	2017 09 10.87440	19 01 23.94	−22 42 57.3	16.4	N	J22
213P	2017 09 11.77178	19 02 14.01	−22 35 39.4	16.5	N	K 585
213P	2017 09 11.77250	19 02 14.08	−22 35 39.4	16.2	N	K 585
213P	2017 09 11.77322	19 02 14.10	−22 35 38.8	16.3	N	K 585
213P	2017 09 11.77394	19 02 14.11	−22 35 38.5	16.3	N	K 585
213P	2017 09 11.77466	19 02 14.19	−22 35 38.0	16.2	N	K 585
213P	2017 09 11.77538	19 02 14.24	−22 35 37.5	16.2	N	K 585
213P	2017 09 11.77609	19 02 14.27	−22 35 37.2	16.4	N	K 585
213P	2017 09 11.77752	19 02 14.36	−22 35 36.7	16.4	N	K 585
213P	2017 09 11.77823	19 02 14.40	−22 35 36.3	16.5	N	K 585
213P	2017 09 11.77894	19 02 14.44	−22 35 36.5	16.4	N	K 585
213P	2017 09 11.77965	19 02 14.51	−22 35 35.8	16.5	N	K 585
213P	2017 09 11.78036	19 02 14.56	−22 35 35.4	16.4	N	K 585
213P	2017 09 11.78107	19 02 14.55	−22 35 35.3	16.6	N	K 585
213P	2017 09 17.03827	19 07 35.44	−21 52 58.4	16.8	N	K I47
213P	2017 09 17.05559	19 07 36.54	−21 52 49.6	17.2	N	K I47
213P	2017 09 20.42432	19 11 25.14	−21 25 50.2	18	T	C51
Geocentric position (km)		+ 2588.5901	− 5862.6372	− 2453.1753		
213P	2017 09 20.55522	19 11 34.36	−21 24 47.6			C51
Geocentric position (km)		+ 2601.6645	− 5850.1121	− 2469.6672		

213P	2017 09 20.68612	19 11 43.57	−21 23 45.0			C51
Geocentric position (km)	+ 2614.6447	− 5837.2112	− 2486.4429			
213P	2017 09 21.14441	19 12 16.19	−21 20 05.1			C51
Geocentric position (km)	+ 2661.7077	− 5823.9014	− 2467.5073			
213P	2017 09 21.20986	19 12 20.77	−21 19 31.9			C51
Geocentric position (km)	+ 2668.1409	− 5817.3912	− 2475.9056			
213P	2017 09 21.29776	19 12 27.11	−21 18 55.7	16.6	T	T05
213P	2017 09 21.30512	19 12 27.60	−21 18 51.7	16.8	T	T05
213P	2017 09 21.31342	19 12 28.20	−21 18 48.2	16.7	T	T05
213P	2017 09 21.32174	19 12 28.78	−21 18 44.0	16.7	T	T05
213P	2017 09 21.40622	19 12 34.89	−21 17 58.8			C51
Geocentric position (km)	+ 2687.3502	− 5797.8339	− 2500.9020			
213P	2017 09 21.40635	19 12 34.88	−21 17 58.8			C51
Geocentric position (km)	+ 2689.3990	− 5829.6421	− 2423.3613			
213P	2017 09 21.76509	19 13 00.77	−21 15 13.9	16.3	T	K 215
213P	2017 09 21.76637	19 13 00.93	−21 15 10.7	16.9	T	K 215
213P	2017 09 21.76765	19 13 01.02	−21 15 09.7	17.0	T	K 215
213P	2017 09 24.05385	19 15 49.74	−20 56 48.4	17.3	N	3W88
213P	2017 09 24.05911	19 15 50.11	−20 56 45.3	17.3	N	3W88
213P	2017 09 24.06485	19 15 50.55	−20 56 43.4	17.3	N	3W88

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217P	2017 07 07.09673	03 11 02.41	+08 01 27.1	15.1	N	K 160
217P	2017 07 07.09907	03 11 02.95	+08 01 28.6	15.0	N	K 160
217P	2017 07 07.10141	03 11 03.52	+08 01 29.8			K 160
217P	2017 07 07.39487	03 12 12.07	+08 04 41.1	14.1	N	W96
217P	2017 07 07.39915	03 12 13.08	+08 04 43.6	14.1	N	W96
217P	2017 07 07.40430	03 12 14.23	+08 04 46.8	14.2	N	W96
217P	2017 07 07.76510	03 13 38.54	+08 08 25.4	12.8	T	349
217P	2017 07 07.76921	03 13 39.48	+08 08 28.1			349
217P	2017 07 07.77331	03 13 40.43	+08 08 30.9			349
217P	2017 07 10.21142	03 23 08.05	+08 33 05.3	14.6	N	9 G40
217P	2017 07 10.21911	03 23 09.88	+08 33 09.8	14.5	N	9 G40
217P	2017 07 10.22030	03 23 10.17	+08 33 11.0	14.5	N	9 G40
217P	2017 07 13.19350	03 34 38.14	+09 01 18.6	13.9	N	J22
217P	2017 07 13.19536	03 34 38.49	+09 01 19.7	13.9	N	J22
217P	2017 07 13.19714	03 34 38.85	+09 01 20.8	13.9	N	J22
217P	2017 07 15.11744	03 42 00.25	+09 18 24.6	15.2	N	K 160
217P	2017 07 15.11883	03 42 00.53	+09 18 24.7	15.1	N	K 160
217P	2017 07 15.12023	03 42 00.70	+09 18 26.1	14.4	N	K 160
217P	2017 07 15.20654	03 42 20.62	+09 19 11.8	14.4	N	9 G40
217P	2017 07 15.21005	03 42 21.43	+09 19 13.6	14.5	N	9 G40
217P	2017 07 15.38680	03 43 01.92	+09 20 51.1	14.0	N	W96
217P	2017 07 15.41227	03 43 07.70	+09 21 03.7	14.0	N	W96
217P	2017 07 17.11666	03 49 36.79	+09 35 16.3	14.4	N	K 160
217P	2017 07 17.11930	03 49 37.40	+09 35 17.4	14.6	N	K 160
217P	2017 07 17.12269	03 49 38.17	+09 35 18.1	14.5	N	K 160
217P	2017 07 18.02046	03 53 02.18	+09 42 33.5	13.3	N	585
217P	2017 07 18.02213	03 53 02.54	+09 42 34.1	13.4	N	585
217P	2017 07 18.02249	03 53 02.62	+09 42 34.5	13.3	N	585
217P	2017 07 18.02321	03 53 02.77	+09 42 34.6	13.4	N	585
217P	2017 07 18.02357	03 53 02.92	+09 42 35.1	13.4	N	585
217P	2017 07 18.02394	03 53 02.92	+09 42 35.0	13.5	N	585
217P	2017 07 18.02430	03 53 03.03	+09 42 35.4	13.4	N	585
217P	2017 07 18.02466	03 53 03.12	+09 42 35.6	13.4	N	585
217P	2017 07 18.02502	03 53 03.19	+09 42 35.5	13.4	N	585
217P	2017 07 18.02539	03 53 03.28	+09 42 35.8	13.4	N	585
217P	2017 07 18.02575	03 53 03.37	+09 42 35.5	13.3	N	585
217P	2017 07 18.02611	03 53 03.46	+09 42 36.3	13.4	N	585
217P	2017 07 18.02647	03 53 03.53	+09 42 35.7	13.4	N	585
217P	2017 07 18.75995	03 55 49.72	+09 48 24.3	12.8	T	349
217P	2017 07 18.76292	03 55 50.42	+09 48 26.1			349
217P	2017 07 19.12703	03 57 12.68	+09 51 13.9	15.1	N	K 160
217P	2017 07 19.12772	03 57 12.89	+09 51 14.1	15.3	N	K 160
217P	2017 07 19.12841	03 57 13.06	+09 51 14.1	15.2	N	K 160
217P	2017 07 19.78166	03 59 40.45	+09 56 14.5			K 367
217P	2017 07 19.78328	03 59 40.81	+09 56 15.4			K 367
217P	2017 07 19.78449	03 59 41.08	+09 56 15.9	12.5	T	K 367
217P	2017 07 20.76024	04 03 20.53	+10 03 31.2			D81
217P	2017 07 20.76100	04 03 20.69	+10 03 31.2			D81
217P	2017 07 20.76176	04 03 20.83	+10 03 32.3			D81
217P	2017 07 20.76252	04 03 21.03	+10 03 32.4	13.0	T	D81
217P	2017 07 26.73263	04 25 22.95	+10 42 52.9	12.4	T	D95
217P	2017 07 26.73849	04 25 24.22	+10 42 55.1			D95
217P	2017 07 26.73995	04 25 24.54	+10 42 55.7			D95
217P	2017 07 28.10629	04 30 21.50	+10 50 42.4	13.0	N	C23
217P	2017 07 28.10928	04 30 22.14	+10 50 43.4	12.9	N	C23
217P	2017 07 28.11227	04 30 22.78	+10 50 44.4	12.9	N	C23
217P	2017 07 28.41047	04 31 27.34	+10 52 30.9	12.9	N	W96
217P	2017 07 28.41585	04 31 28.50	+10 52 32.5	12.9	N	W96
217P	2017 07 28.42900	04 31 31.32	+10 52 36.5	12.9	N	W96
217P	2017 07 30.22524	04 37 57.86	+11 01 58.0	14.4	N	9 G40
217P	2017 07 30.22852	04 37 58.51	+11 01 58.9	14.4	N	9 G40
217P	2017 08 01.09226	04 44 35.24	+11 10 57.8	14.8	N	K 215
217P	2017 08 01.09355	04 44 35.51	+11 10 58.2	14.8	N	K 215
217P	2017 08 01.09483	04 44 35.77	+11 10 58.3	14.8	N	K 215
217P	2017 08 01.78299	04 47 01.21	+11 14 06.9			K 367
217P	2017 08 01.78461	04 47 01.55	+11 14 07.4			K 367
217P	2017 08 01.78582	04 47 01.80	+11 14 07.7	12.2	T	K 367
217P	2017 08 04.39697	04 56 07.76	+11 25 05.9	14.1	N	W96
217P	2017 08 04.41337	04 56 11.13	+11 25 10.0	14.1	N	W96
217P	2017 08 05.18192	04 58 50.11	+11 27 59.3	13.9	N	J22
217P	2017 08 05.18372	04 58 50.52	+11 27 58.5	13.9	N	J22
217P	2017 08 05.18550	04 58 50.88	+11 27 58.8	13.9	N	J22
217P	2017 08 07.09911	05 05 23.06	+11 34 37.7	14.2	N	C23
217P	2017 08 07.10211	05 05 23.68	+11 34 38.6	14.1	N	C23
217P	2017 08 07.10510	05 05 24.28	+11 34 39.0	14.1	N	C23
217P	2017 08 07.10735	05 05 24.74	+11 34 39.6	14.2	N	C23
217P	2017 08 11.10568	05 18 47.56	+11 46 07.7	14.7	N	K02
217P	2017 08 11.10738	05 18 47.91	+11 46 07.0	15.6	N	K02
217P	2017 08 11.10995	05 18 48.37	+11 46 06.2	15.2	N	K02
217P	2017 08 11.21933	05 19 10.16	+11 46 23.9	14.3	N	9 G40
217P	2017 08 11.22278	05 19 10.83	+11 46 24.5	14.3	N	9 G40
217P	2017 08 11.23088	05 19 12.40	+11 46 25.9	14.4	N	9 G40
217P	2017 08 11.23333	05 19 12.91	+11 46 26.2	14.3	N	9 G40
217P	2017 08 12.05068	05 21 53.97	+11 48 19.3	14.2	N	585

217P	2017 08 12.05289	05 21 54.41	+11 48 19.5	14.2	N	585
217P	2017 08 12.05361	05 21 54.55	+11 48 19.5	14.2	N	585
217P	2017 08 12.05437	05 21 54.69	+11 48 19.7	14.2	N	585
217P	2017 08 12.05526	05 21 54.87	+11 48 19.9	14.2	N	585
217P	2017 08 12.05619	05 21 55.06	+11 48 20.2	14.2	N	585
217P	2017 08 12.05691	05 21 55.20	+11 48 20.1	14.2	N	585
217P	2017 08 12.05777	05 21 55.36	+11 48 20.0	14.2	N	585
217P	2017 08 12.05876	05 21 55.57	+11 48 20.2	14.0	N	585
217P	2017 08 12.05953	05 21 55.66	+11 48 20.3	13.9	N	585
217P	2017 08 12.06028	05 21 55.83	+11 48 20.5	14.0	N	585
217P	2017 08 12.06104	05 21 55.99	+11 48 20.0	14.0	N	585
217P	2017 08 12.06255	05 21 56.26	+11 48 20.1	13.8	N	585
217P	2017 08 12.06348	05 21 56.46	+11 48 20.7	13.8	N	585
217P	2017 08 12.06419	05 21 56.62	+11 48 20.9	13.8	N	585
217P	2017 08 12.06491	05 21 56.77	+11 48 20.8	14.1	N	585
217P	2017 08 12.38744	05 23 00.18	+11 49 11.0	14.4	N	W96
217P	2017 08 12.41111	05 23 04.73	+11 49 14.3	14.4	N	W96
217P	2017 08 15.07576	05 31 41.59	+11 54 15.2	14.7	N	K A71
217P	2017 08 15.08031	05 31 42.47	+11 54 15.4	14.5	N	K A71
217P	2017 08 15.08497	05 31 43.37	+11 54 16.2	14.6	N	K A71
217P	2017 08 15.08905	05 31 44.10	+11 54 16.5	14.6	N	K A71
217P	2017 08 15.09254	05 31 44.80	+11 54 16.5	14.6	N	K A71
217P	2017 08 16.09102	05 34 55.75	+11 55 51.2	14.2	N	C23
217P	2017 08 16.09701	05 34 56.87	+11 55 50.7	14.4	N	C23
217P	2017 08 16.10300	05 34 58.02	+11 55 51.7	14.5	N	C23
217P	2017 08 16.11743	05 35 00.75	+11 55 52.7	14.8	N	K02
217P	2017 08 16.12084	05 35 01.43	+11 55 53.1	15.7	N	K02
217P	2017 08 16.13103	05 35 03.36	+11 55 53.8	14.9	N	K02
217P	2017 08 19.10711	05 44 22.86	+11 59 28.7	14.6	N	C23
217P	2017 08 19.11198	05 44 23.76	+11 59 28.8	14.6	N	C23
217P	2017 08 19.11647	05 44 24.59	+11 59 29.6	14.9	N	C23
217P	2017 08 19.18448	05 44 37.27	+11 59 34.6	15.1	N	9 G40
217P	2017 08 19.18776	05 44 37.87	+11 59 34.9	15.1	N	9 G40
217P	2017 08 19.19122	05 44 38.54	+11 59 35.2	15.2	N	9 G40
217P	2017 08 19.19470	05 44 39.19	+11 59 35.3	15.2	N	9 G40
217P	2017 08 19.19819	05 44 39.81	+11 59 35.7	15.2	N	9 G40
217P	2017 08 19.77191	05 46 25.96	+12 00 05.3	12.4	T	349
217P	2017 08 19.77564	05 46 26.66	+12 00 05.4			349
217P	2017 08 20.19794	05 47 44.50	+12 00 26.3	14.1	N	J22
217P	2017 08 20.20059	05 47 44.94	+12 00 25.7	14.1	N	J22
217P	2017 08 20.20148	05 47 45.02	+12 00 25.5	14.1	N	J22
217P	2017 08 22.40066	05 54 25.54	+12 01 46.0	14.7	N	W96
217P	2017 08 22.42086	05 54 29.15	+12 01 46.8	14.6	N	W96
217P	2017 08 23.14415	05 56 39.13	+12 01 53.7	15.7	N	K 160
217P	2017 08 23.14692	05 56 39.62	+12 01 53.7	15.7	N	K 160
217P	2017 08 23.14968	05 56 40.15	+12 01 54.1	15.7	N	K 160
217P	2017 08 26.16641	06 05 32.93	+12 02 00.9	14.3	N	2 G40
217P	2017 08 26.16735	06 05 33.10	+12 02 00.7	14.3	N	2 G40
217P	2017 08 26.16821	06 05 33.26	+12 02 01.0	14.3	N	2 G40
217P	2017 08 26.74541	06 07 13.41	+12 01 51.8	13.0	T	D95
217P	2017 08 26.74908	06 07 14.03	+12 01 51.6			D95
217P	2017 08 26.75201	06 07 14.53	+12 01 51.7			D95
217P	2017 08 26.77714	06 07 18.90	+12 01 51.2			K 367
217P	2017 08 26.77876	06 07 19.18	+12 01 51.4			K 367
217P	2017 08 26.77998	06 07 19.39	+12 01 51.5	12.4	T	K 367
217P	2017 08 27.07950	06 08 11.10	+12 01 45.6	14.8	N	A29
217P	2017 08 27.08542	06 08 12.16	+12 01 45.0	14.7	N	A29
217P	2017 08 27.09454	06 08 13.72	+12 01 45.0	14.8	N	A29
217P	2017 08 29.09228	06 13 55.00	+12 00 49.3	15.2	N	C23
217P	2017 08 29.09805	06 13 55.93	+12 00 49.1	15.2	N	C23
217P	2017 08 29.10527	06 13 57.20	+12 00 48.5	15.3	N	C23
217P	2017 09 01.13258	06 22 21.55	+11 58 25.3	14.8	N	K A77
217P	2017 09 01.13750	06 22 22.34	+11 58 24.6	14.8	N	K A77
217P	2017 09 01.14243	06 22 23.13	+11 58 24.7	14.8	N	K A77
217P	2017 09 01.14419	06 22 23.38	+11 58 23.8	15.1	N	C23
217P	2017 09 01.14794	06 22 23.98	+11 58 23.5	14.8	N	C23
217P	2017 09 01.15243	06 22 24.68	+11 58 23.5	15.0	N	C23
217P	2017 09 01.79369	06 24 09.58	+11 57 45.2			K 367
217P	2017 09 01.79491	06 24 09.78	+11 57 45.1			K 367
217P	2017 09 01.79653	06 24 10.04	+11 57 45.0	12.4	T	K 367
217P	2017 09 02.38012	06 25 44.81	+11 57 13.0	14.9	N	W96
217P	2017 09 02.40624	06 25 48.94	+11 57 10.2	14.8	N	W96
217P	2017 09 02.77660	06 26 48.84	+11 56 39.3	13.2	T	D95
217P	2017 09 02.78026	06 26 49.43	+11 56 38.8			D95
217P	2017 09 02.78318	06 26 49.90	+11 56 38.7			D95
217P	2017 09 05.21796	06 33 17.37	+11 53 28.9	15.0	N	9 G40
217P	2017 09 05.22138	06 33 17.92	+11 53 28.7	15.0	N	9 G40
217P	2017 09 05.22956	06 33 19.15	+11 53 27.8	14.9	N	9 G40
217P	2017 09 05.23308	06 33 19.74	+11 53 27.7	14.9	N	9 G40
217P	2017 09 05.23642	06 33 20.25	+11 53 27.5	14.9	N	9 G40
217P	2017 09 08.06635	06 40 37.72	+11 48 58.1	14.4	N	585
217P	2017 09 08.06671	06 40 37.78	+11 48 57.8	14.4	N	585
217P	2017 09 08.06707	06 40 37.84	+11 48 57.9	14.4	N	585
217P	2017 09 08.06743	06 40 37.89	+11 48 57.7	14.4	N	585
217P	2017 09 08.06779	06 40 37.95	+11 48 57.7	14.4	N	585
217P	2017 09 08.06816	06 40 38.00	+11 48 57.6	14.4	N	585
217P	2017 09 08.06852	06 40 38.05	+11 48 57.8	14.4	N	585
217P	2017 09 08.06924	06 40 38.16	+11 48 57.6	14.4	N	585
217P	2017 09 08.06960	06 40 38.20	+11 48 57.7	14.5	N	585
217P	2017 09 08.06996	06 40 38.27	+11 48 57.5	14.5	N	585
217P	2017 09 08.07032	06 40 38.31	+11 48 57.5	14.5	N	585
217P	2017 09 08.07068	06 40 38.37	+11 48 57.5	14.5	N	585
217P	2017 09 08.07105	06 40 38.43	+11 48 57.4	14.5	N	585
217P	2017 09 08.07141	06 40 38.48	+11 48 57.3	14.5	N	585
217P	2017 09 08.38945	06 41 26.87	+11 48 31.3	15.0	N	W96
217P	2017 09 08.39514	06 41 27.66	+11 48 30.8	15.0	N	W96
217P	2017 09 08.40251	06 41 28.77	+11 48 30.5	15.0	N	W96
217P	2017 09 10.11687	06 45 46.14	+11 45 16.4	15.4	N	C23
217P	2017 09 10.12285	06 45 47.02	+11 45 16.1	15.1	N	C23
217P	2017 09 10.12809	06 45 47.79	+11 45 15.3	15.1	N	C23
217P	2017 09 10.39029	06 46 26.75	+11 44 46.9	14.5	N	850
217P	2017 09 10.40469	06 46 28.88	+11 44 45.4	14.6	N	850
217P	2017 09 10.42069	06 46 31.24	+11 44 43.5	14.6	N	850
217P	2017 09 11.13123	06 48 16.01	+11 43 19.5	15.4	N	K02
217P	2017 09 11.13632	06 48 16.74	+11 43 18.8	15.2	N	K02
217P	2017 09 11.14141	06 48 17.51	+11 43 18.3	16.0	N	K02

217P	2017 09 12.14951	06 50 44.67	+11 41 16.8	16.1	N	K02
217P	2017 09 12.15714	06 50 45.75	+11 41 16.0	15.8	N	K02
217P	2017 09 12.16394	06 50 46.78	+11 41 14.9	16.1	N	K02
217P	2017 09 15.10193	06 57 45.39	+11 34 57.9	14.4	N	585
217P	2017 09 15.10265	06 57 45.50	+11 34 57.1	14.5	N	585
217P	2017 09 15.10342	06 57 45.59	+11 34 56.7	14.5	N	585
217P	2017 09 15.10417	06 57 45.68	+11 34 57.1	14.3	N	585
217P	2017 09 15.10491	06 57 45.80	+11 34 56.8	14.4	N	585
217P	2017 09 15.10565	06 57 45.91	+11 34 57.0	14.6	N	585
217P	2017 09 15.10638	06 57 45.96	+11 34 57.5	14.3	N	585
217P	2017 09 15.10710	06 57 46.10	+11 34 56.7	14.5	N	585
217P	2017 09 17.09455	07 02 20.72	+11 30 22.3	14.7	N	585
217P	2017 09 17.09491	07 02 20.76	+11 30 22.5	14.6	N	585
217P	2017 09 17.09527	07 02 20.86	+11 30 22.1	14.6	N	585
217P	2017 09 17.09563	07 02 20.89	+11 30 22.1	14.6	N	585
217P	2017 09 17.09599	07 02 20.91	+11 30 22.2	14.7	N	585
217P	2017 09 17.09636	07 02 20.96	+11 30 22.6	14.7	N	585
217P	2017 09 17.09672	07 02 21.02	+11 30 22.0	14.7	N	585
217P	2017 09 17.09708	07 02 21.06	+11 30 22.1	14.7	N	585
217P	2017 09 17.09744	07 02 21.12	+11 30 22.0	14.7	N	585
217P	2017 09 17.09780	07 02 21.16	+11 30 21.7	14.7	N	585
217P	2017 09 17.09852	07 02 21.28	+11 30 21.8	14.7	N	585
217P	2017 09 17.09919	07 02 21.35	+11 30 21.8	14.7	N	585
217P	2017 09 17.09955	07 02 21.41	+11 30 22.0	14.7	N	585
217P	2017 09 17.09991	07 02 21.45	+11 30 21.5	14.8	N	585
217P	2017 09 17.10027	07 02 21.49	+11 30 21.5	14.8	N	585
217P	2017 09 17.10063	07 02 21.54	+11 30 21.5	14.8	N	585
217P	2017 09 17.10099	07 02 21.58	+11 30 21.6	14.7	N	585
217P	2017 09 17.12025	07 02 24.30	+11 30 18.2	15.7	N	C23
217P	2017 09 17.12474	07 02 24.90	+11 30 17.2	15.5	N	C23
217P	2017 09 17.12998	07 02 25.56	+11 30 16.8	15.7	N	C23
217P	2017 09 17.14163	07 02 27.28	+11 30 16.2	15.2	N	K A77
217P	2017 09 17.14487	07 02 27.69	+11 30 15.4	15.2	N	K A77
217P	2017 09 17.14811	07 02 28.12	+11 30 14.7	13.4	T	K A77
217P	2017 09 17.33488	07 02 53.60	+11 29 55.0	15.4	N	W96
217P	2017 09 17.36297	07 02 57.36	+11 29 51.3	15.4	N	W96
217P	2017 09 22.18517	07 13 31.86	+11 17 47.9	15.6	N	I81
217P	2017 09 22.19116	07 13 32.58	+11 17 47.3	15.6	N	I81
217P	2017 09 22.19542	07 13 33.11	+11 17 46.0	15.6	N	I81
217P	2017 09 24.74243	07 18 51.41	+11 11 10.8			372
217P	2017 09 24.74792	07 18 52.08	+11 11 10.0	14.5	T	372

219P/LINEAR

219P	2017 07 03.46565	02 22 51.96	+19 58 57.5			5 U69
219P	2017 07 03.46665	02 22 52.04	+19 58 58.5	19.0	T	5 U69
219P	2017 07 04.46323	02 24 23.22	+20 04 58.3			5 U69
219P	2017 07 04.46514	02 24 23.39	+20 04 59.1			5 U69
219P	2017 07 04.46705	02 24 23.56	+20 04 59.8	19.2	T	5 U69
219P	2017 08 20.08891	03 22 31.47	+22 58 20.3	18.9	T	K 104
219P	2017 08 20.09853	03 22 31.97	+22 58 21.9	19.6	T	K 104
219P	2017 08 29.04527	03 29 37.30	+23 05 46.2	18.0	N	K I81
219P	2017 08 29.05057	03 29 37.47	+23 05 46.5	18.1	N	K I81
219P	2017 08 29.05587	03 29 37.68	+23 05 47.0	18.2	N	K I81
219P	2017 09 15.91972	03 38 17.09	+22 53 29.3			L51
219P	2017 09 15.94110	03 38 17.44	+22 53 28.3	19.0	T	L51
219P	2017 09 15.96249	03 38 17.82	+22 53 26.5			L51
219P	2017 09 22.03356	03 39 22.18	+22 40 34.2	18.8	N	K I81
219P	2017 09 22.03711	03 39 22.20	+22 40 33.4	18.8	N	K I81
219P	2017 09 22.04065	03 39 22.20	+22 40 32.5	18.6	N	K I81
219P	2017 09 22.10547	03 39 22.34	+22 40 24.7	18.7	N	K C23
219P	2017 09 22.11268	03 39 22.53	+22 40 22.5	18.6	N	K C23
219P	2017 09 28.68982	03 39 24.23	+22 21 16.2	18.7	T	K Q11
219P	2017 09 28.69874	03 39 24.17	+22 21 14.8			K Q11

226P/Pigott-LINEAR-Kowalski

226P	2016 11 09.05498	05 16 01.60	+40 41 00.7	17.2	N	A24
226P	2016 11 09.05524	05 16 01.57	+40 41 00.6	17.2	N	A24
226P	2016 11 09.09714	05 15 57.50	+40 42 36.9	16.8	N	A24
226P	2016 11 09.09740	05 15 57.46	+40 42 37.2	17.1	N	A24
226P	2016 11 29.98840	04 26 39.24	+52 26 00.5	17.2	N	A24
226P	2016 11 29.98866	04 26 39.22	+52 26 01.3	16.9	N	A24
226P	2016 11 30.03296	04 26 31.25	+52 27 08.0	17.3	N	A24
226P	2016 11 30.03322	04 26 31.06	+52 27 08.8	16.8	N	A24
226P	2016 11 30.96556	04 23 45.84	+52 50 18.9	16.6	N	A24
226P	2016 11 30.96582	04 23 45.77	+52 50 18.8	16.6	N	A24
226P	2016 12 01.00938	04 23 37.83	+52 51 22.0	16.7	N	A24
226P	2016 12 01.00964	04 23 37.80	+52 51 23.5	17.0	N	A24
226P	2016 12 01.97215	04 20 45.78	+53 14 21.1	17.0	N	A24
226P	2016 12 01.97242	04 20 45.78	+53 14 22.2	16.8	N	A24
226P	2016 12 02.01877	04 20 37.19	+53 15 26.3	17.1	N	A24
226P	2016 12 02.01906	04 20 37.16	+53 15 27.0	17.0	N	A24

229P/Gibbs

229P	2017 07 23.81061	04 12 07.86	+00 22 15.2			1 Q62
229P	2017 07 23.81265	04 12 08.06	+00 22 15.1			1 Q62
229P	2017 07 23.81468	04 12 08.29	+00 22 14.7	20.2	T	1 Q62
229P	2017 09 20.46265	05 31 24.01	−05 51 23.0	19.0	T	703
229P	2017 09 20.46809	05 31 24.35	−05 51 27.0	19.8	T	703
229P	2017 09 20.47352	05 31 24.63	−05 51 30.0	19.8	T	703
229P	2017 09 20.47896	05 31 24.94	−05 51 33.3	20.0	T	703
229P	2017 09 25.46382	05 35 33.51	−06 38 53.4	18.8	T	703
229P	2017 09 25.46930	05 35 33.80	−06 38 55.5	20.1	T	703
229P	2017 09 25.47476	05 35 33.88	−06 38 59.8	18.9	T	703
229P	2017 09 25.48021	05 35 34.08	−06 39 01.3	18.9	T	703

236P/LINEAR

236P	2017 07 18.92970	21 04 09.45	+10 43 57.1	18.8	T	K 104
236P	2017 07 18.93558	21 04 09.35	+10 43 59.1	18.9	T	K 104
236P	2017 07 18.94745	21 04 08.89	+10 44 07.6	19.2	T	K 104
236P	2017 07 18.95333	21 04 08.75	+10 44 10.8	19.6	T	K 104
236P	2017 07 22.91819	21 02 00.01	+11 23 42.4	20.5	N	K 160
236P	2017 07 22.92046	21 01 59.95	+11 23 43.6	19.3	N	K 160
236P	2017 07 25.12141	21 00 40.53	+11 43 50.4	19.2	T	9 G40
236P	2017 07 25.15539	21 00 39.15	+11 44 08.7	19.2	T	9 G40
236P	2017 07 25.16186	21 00 38.93	+11 44 12.4	19.4	T	9 G40
236P	2017 07 30.93856	20 56 50.59	+12 29 57.8	18.6	N	K 160
236P	2017 07 30.94095	20 56 50.47	+12 29 58.7	18.8	N	K 160

236P	2017 07 30.94352	20 56 50.34	+12 29 59.8	18.7	N	K 160
236P	2017 07 31.96079	20 56 07.67	+12 36 56.0	18.1	N	K I81
236P	2017 07 31.96364	20 56 07.53	+12 36 56.5	18.8	N	K I81
236P	2017 07 31.96719	20 56 07.31	+12 36 57.2	19.5	N	K I81
236P	2017 08 02.18895	20 55 15.16	+12 44 53.3	17.7	T	I27
236P	2017 08 02.19641	20 55 14.84	+12 44 55.6	17.8	T	I27
236P	2017 08 02.20014	20 55 14.65	+12 44 58.0	17.4	T	I27
236P	2017 08 02.20759	20 55 14.33	+12 45 00.0	17.9	T	I27
236P	2017 08 02.21133	20 55 14.10	+12 45 02.1	17.6	T	I27
236P	2017 08 02.21506	20 55 13.99	+12 45 03.6	17.8	T	I27
236P	2017 08 02.22255	20 55 13.63	+12 45 06.4	17.6	T	I27
236P	2017 08 02.22627	20 55 13.51	+12 45 07.5	17.6	T	I27
236P	2017 08 02.94198	20 54 42.63	+12 49 30.2	18.6	N	K 160
236P	2017 08 02.94505	20 54 42.47	+12 49 30.5	18.9	N	K 160
236P	2017 08 02.94795	20 54 42.33	+12 49 30.6			K 160
236P	2017 08 05.93340	20 52 31.73	+13 05 54.0	26.7	N	B96
236P	2017 08 05.93503	20 52 31.60	+13 05 54.4	26.8	N	B96
236P	2017 08 05.93667	20 52 31.48	+13 05 54.9	20.6	N	B96
236P	2017 08 05.93830	20 52 31.35	+13 05 55.1	26.8	N	B96
236P	2017 08 05.93993	20 52 31.26	+13 05 55.6	26.8	N	B96
236P	2017 08 05.94157	20 52 31.12	+13 05 55.9	18.4	N	B96
236P	2017 08 11.91171	20 48 05.42	+13 29 06.6	18.3	T	K 585
236P	2017 08 11.91257	20 48 05.38	+13 29 06.8	18.3	T	K 585
236P	2017 08 11.91352	20 48 05.33	+13 29 07.0	18.2	T	K 585
236P	2017 08 11.91454	20 48 05.29	+13 29 07.0	18.2	T	K 585
236P	2017 08 11.91557	20 48 05.25	+13 29 06.9	18.8	N	K 585
236P	2017 08 11.91659	20 48 05.18	+13 29 07.2	18.7	N	K 585
236P	2017 08 11.91746	20 48 05.13	+13 29 07.3	18.7	N	K 585
236P	2017 08 11.91790	20 48 05.11	+13 29 07.4	18.7	N	K 585
236P	2017 08 11.91947	20 48 05.06	+13 29 07.7	18.8	N	K 585
236P	2017 08 11.92177	20 48 04.91	+13 29 08.2	19.0	N	K 585
236P	2017 08 15.90814	20 45 11.34	+13 37 22.2	18.8	N	K 160
236P	2017 08 15.91049	20 45 11.27	+13 37 22.5	19.4	N	K 160
236P	2017 08 15.91285	20 45 11.20	+13 37 22.6	19.1	N	K 160
236P	2017 08 16.86616	20 44 30.92	+13 38 28.4	19.6	N	K 160
236P	2017 08 16.86826	20 44 30.82	+13 38 28.3	19.1	N	K 160
236P	2017 08 16.87037	20 44 30.77	+13 38 29.0	19.6	N	K 160
236P	2017 08 17.93823	20 43 46.00	+13 39 18.1	19.3	N	K K25
236P	2017 08 17.96004	20 43 45.05	+13 39 18.7	19.0	N	K K25
236P	2017 08 18.43457	20 43 25.42	+13 39 36.0	19.2	T	T05
236P	2017 08 18.44001	20 43 25.27	+13 39 35.9	19.1	T	T05
236P	2017 08 18.45664	20 43 24.43	+13 39 36.6	19.0	T	T05
236P	2017 08 18.46638	20 43 24.04	+13 39 36.4	19.1	T	T05
236P	2017 08 20.87076	20 41 48.37	+13 39 29.3	18.2	N	K K25
236P	2017 08 20.88699	20 41 47.67	+13 39 29.0	18.6	N	K K25
236P	2017 08 22.86939	20 40 32.75	+13 37 53.0	18.8	N	K 160
236P	2017 08 22.87160	20 40 32.62	+13 37 52.5	18.3	N	K 160
236P	2017 08 22.87382	20 40 32.52	+13 37 52.5	18.3	N	K 160
236P	2017 08 24.55805	20 39 32.25	+13 35 29.5	18.4	T	K Q11
236P	2017 08 24.56978	20 39 31.83	+13 35 28.4			K Q11
236P	2017 08 24.92256	20 39 19.92	+13 34 51.9	18.4	N	9 G40
236P	2017 08 24.93445	20 39 19.48	+13 34 50.3	18.6	N	9 G40
236P	2017 08 29.96066	20 36 44.99	+13 21 38.4	18.9	N	K77
236P	2017 08 29.96425	20 36 44.95	+13 21 38.2	18.9	N	K77
236P	2017 08 29.96782	20 36 44.77	+13 21 36.7	19.0	N	K77
236P	2017 08 30.77948	20 36 23.91	+13 18 50.6	18.4	N	B34
236P	2017 08 30.84388	20 36 22.10	+13 18 34.9	19.2	N	B34
236P	2017 08 30.90486	20 36 20.24	+13 18 21.1	17.1	N	B34
236P	2017 08 31.84809	20 35 57.66	+13 14 47.8	18.4	N	K C10
236P	2017 08 31.89503	20 35 56.35	+13 14 35.7	18.6	N	K C10
236P	2017 09 09.94971	20 33 39.12	+12 29 27.9	17.4	N	K 970
236P	2017 09 09.95906	20 33 39.17	+12 29 24.4	17.0	N	K 970
236P	2017 09 10.05229	20 33 38.38	+12 28 53.9	18.5	T	9 G40
236P	2017 09 10.06053	20 33 38.33	+12 28 50.7	18.8	T	9 G40
236P	2017 09 13.36460	20 33 30.54	+12 08 14.8	18.6	T	T08
236P	2017 09 13.36506	20 33 30.58	+12 08 15.9	18.4	T	T08
236P	2017 09 13.37862	20 33 30.43	+12 08 11.1	18.5	T	T08
236P	2017 09 13.38638	20 33 30.49	+12 08 06.7	18.5	T	T08
236P	2017 09 15.88708	20 33 40.42	+11 51 24.7	18.7	N	I72
236P	2017 09 15.89498	20 33 40.50	+11 51 21.1	18.4	N	I72
236P	2017 09 15.91832	20 33 40.56	+11 51 11.8	18.5	N	I72
236P	2017 09 16.86157	20 33 48.06	+11 44 39.5	18.6	N	K C23
236P	2017 09 16.86878	20 33 48.07	+11 44 36.6	19.4	N	K C23
236P	2017 09 20.86865	20 34 41.67	+11 16 02.8	17.4	N	K C23
236P	2017 09 20.87442	20 34 41.76	+11 15 59.7	17.7	N	K C23
236P	2017 09 20.87875	20 34 41.85	+11 15 57.6	17.5	N	K C23
236P	2017 09 21.82073	20 34 59.98	+11 09 02.9	18.3	T	K 215
236P	2017 09 21.82266	20 35 00.00	+11 09 02.3	18.3	T	K 215
236P	2017 09 21.82459	20 35 00.02	+11 09 01.5	18.4	T	K 215
236P	2017 09 23.34498	20 35 33.23	+10 57 48.7	19.0	T	T05
236P	2017 09 23.36178	20 35 33.58	+10 57 40.6	19.3	T	T05
236P	2017 09 23.36729	20 35 33.68	+10 57 37.9	19.2	T	T05
236P	2017 09 23.36826	20 35 33.78	+10 57 37.6	18.5	T	T05
236P	2017 09 23.88366	20 35 46.23	+10 53 43.5	19.5	N	B96
236P	2017 09 23.89183	20 35 46.54	+10 53 41.9	19.9	N	B96
236P	2017 09 24.54462	20 36 03.21	+10 48 49.0	18.1	T	K Q11
236P	2017 09 24.55067	20 36 03.35	+10 48 46.3			K Q11
236P	2017 09 24.88134	20 36 12.39	+10 46 15.8	19.0	N	B96
236P	2017 09 24.88297	20 36 12.41	+10 46 14.7	19.5	N	B96
236P	2017 09 24.88462	20 36 12.45	+10 46 13.9	18.4	N	B96
236P	2017 09 24.88625	20 36 12.48	+10 46 13.5	20.5	N	B96
236P	2017 09 24.88788	20 36 12.51	+10 46 12.6	20.5	N	B96
236P	2017 09 24.88951	20 36 12.55	+10 46 12.2	19.4	N	B96
236P	2017 09 25.82344	20 36 39.15	+10 39 10.3	17.8	N	K C23
236P	2017 09 25.82777	20 36 39.37	+10 39 08.1	17.5	N	K C23
236P	2017 09 25.83210	20 36 39.42	+10 39 05.9	18.0	N	K C23
236P	2017 09 26.87905	20 37 11.27	+10 31 14.4	18.5	N	I72
236P	2017 09 26.90124	20 37 11.99	+10 31 04.3	18.1	N	I72
236P	2017 09 26.92294	20 37 12.56	+10 30 54.9	18.6	N	I72
236P	2017 09 27.79509	20 37 41.45	+10 24 18.4	18.8	N	K 160
236P	2017 09 27.79745	20 37 41.54	+10 24 16.9	18.8	N	K 160
236P	2017 09 27.79980	20 37 41.61	+10 24 15.4	18.8	N	K 160

237P/LINEAR

237P	2017 07 04.20998	00 52 51.98	+20 01 25.2	18.6	N	J22
237P	2017 07 04.21196	00 52 51.99	+20 01 25.2	18.6	N	J22

237P	2017 08 16.00941	01 08 03.36	+23 37 06.2	19.0	N	K	C23
237P	2017 08 16.02241	01 08 03.30	+23 37 11.5	18.9	N	K	C23
237P	2017 08 17.58576	01 07 51.23	+23 40 08.7	19.7	N	K	T03
237P	2017 08 17.59405	01 07 51.15	+23 40 09.6	19.6	N	K	T03
237P	2017 08 17.60327	01 07 51.09	+23 40 11.0	19.7	N	K	T03
237P	2017 08 23.93681	01 06 28.60	+23 47 33.9	20.5	N	K	A71
237P	2017 08 23.96442	01 06 28.08	+23 47 35.9	21.4	N	K	A71
237P	2017 08 26.00994	01 05 49.73	+23 48 19.3	17.0	N	K	970
237P	2017 08 26.01720	01 05 49.64	+23 48 21.6	17.9	N	K	970
237P	2017 08 28.96991	01 04 44.92	+23 48 03.3	18.9	N	K	C23
237P	2017 08 28.98146	01 04 44.51	+23 48 03.0	18.7	N	K	C23
237P	2017 08 29.00107	01 04 43.98	+23 47 59.5	18.9	N	K	I81
237P	2017 08 29.00595	01 04 43.78	+23 47 58.9	18.7	N	K	I81
237P	2017 08 29.01082	01 04 43.63	+23 47 59.7	18.1	N	K	I81
237P	2017 08 30.02114	01 04 18.94	+23 47 29.8	18.2	N	K	I81
237P	2017 08 30.02540	01 04 18.96	+23 47 30.0	18.4	N	K	I81
237P	2017 08 30.21868	01 04 14.00	+23 47 27.3	19.7	N		KW96
237P	2017 08 30.24868	01 04 13.03	+23 47 23.8	19.6	N		KW96
237P	2017 09 11.35259	00 57 43.85	+23 24 31.4	19.4	N		KW96
237P	2017 09 11.35450	00 57 43.72	+23 24 30.6	19.5	N		KW96
237P	2017 09 15.96701	00 54 38.70	+23 07 47.4	18.8	N	K	C23
237P	2017 09 15.97856	00 54 38.53	+23 07 43.0	18.6	N	K	C23
237P	2017 09 18.98030	00 52 29.44	+22 54 33.8	17.8	N		I81
237P	2017 09 18.99033	00 52 28.97	+22 54 30.2	18.1	N		I81
237P	2017 09 18.99458	00 52 28.85	+22 54 30.0	18.3	N		I81
237P	2017 09 21.52005	00 50 36.354	+22 42 06.53	20.3	T		F51
237P	2017 09 21.53286	00 50 35.759	+22 42 02.53	20.4	T		F51
237P	2017 09 21.54570	00 50 35.153	+22 41 58.43	20.3	T		F51
237P	2017 09 21.55855	00 50 34.564	+22 41 54.34	20.4	T		F51
237P	2017 09 25.80693	00 47 19.93	+22 18 15.2	19.6	T	K	215
237P	2017 09 25.80796	00 47 19.87	+22 18 14.6	19.4	T	K	215
237P	2017 09 25.80899	00 47 19.84	+22 18 13.7	19.0	T	K	215
237P	2017 09 30.34112	00 43 47.521	+21 49 43.49	19.9	T		F51
237P	2017 09 30.35209	00 43 46.997	+21 49 39.10	20.1	T		F51
237P	2017 09 30.36310	00 43 46.453	+21 49 34.73	20.0	T		F51
237P	2017 09 30.37417	00 43 45.919	+21 49 30.40	20.1	T		F51

240P/NEAT

240P	2017 07 06.59760	00 31 56.19	−26 39 57.7	18.0	T		T05
240P	2017 07 06.60691	00 31 56.58	−26 39 59.8	18.0	T		T05
240P	2017 07 06.61622	00 31 56.95	−26 40 02.6	18.1	T		T05
240P	2017 07 08.57437	00 33 21.80	−26 49 38.3	17.7	T		T08
240P	2017 07 08.58276	00 33 22.14	−26 49 40.8	17.8	T		T08
240P	2017 07 08.59116	00 33 22.44	−26 49 43.8	17.7	T		T08
240P	2017 07 08.59952	00 33 22.88	−26 49 45.9	17.7	T		T08
240P	2017 07 18.58388	00 39 37.68	−27 47 15.2	17.7	T		T05
240P	2017 07 18.59953	00 39 38.17	−27 47 21.2	17.6	T		T05
240P	2017 07 18.60686	00 39 38.39	−27 47 24.1	17.7	T		T05
240P	2017 07 18.62391	00 39 39.11	−27 47 26.7			1	Q62
240P	2017 07 18.62597	00 39 39.16	−27 47 27.6			1	Q62
240P	2017 07 18.62803	00 39 39.22	−27 47 28.4	17.3	T	1	Q62
240P	2017 07 20.58652	00 40 40.16	−28 00 28.4	17.5	T		T08
240P	2017 07 20.59137	00 40 40.27	−28 00 30.1	17.5	T		T08
240P	2017 07 20.60159	00 40 40.64	−28 00 33.9	17.6	T		T08
240P	2017 07 20.61570	00 40 40.91	−28 00 40.3	17.4	T		T08
240P	2017 07 24.58391	00 42 31.03	−28 28 26.7	17.3	T		T08
240P	2017 07 24.58779	00 42 31.03	−28 28 28.4	17.2	T		T08
240P	2017 07 24.59798	00 42 31.34	−28 28 32.5	17.4	T		T08
240P	2017 07 24.61109	00 42 31.68	−28 28 38.0	17.5	T		T08
240P	2017 07 26.59087	00 43 19.37	−28 43 15.0	17.7	T		T05
240P	2017 07 26.59379	00 43 19.46	−28 43 15.9	17.8	T		T05
240P	2017 07 26.60147	00 43 19.66	−28 43 19.4	18.0	T		T05
240P	2017 07 26.60684	00 43 19.71	−28 43 22.0	18.0	T		T05
240P	2017 08 01.56351	00 45 12.87	−29 30 03.9	17.5	T		T08
240P	2017 08 01.57564	00 45 13.02	−29 30 09.6	17.4	T		T08
240P	2017 08 01.58728	00 45 13.19	−29 30 16.0	17.5	T		T08
240P	2017 08 01.59166	00 45 13.26	−29 30 18.0	17.5	T		T08
240P	2017 08 03.53164	00 45 39.88	−29 46 17.8	18.1	T		T05
240P	2017 08 03.54337	00 45 40.04	−29 46 24.2	18.3	T		T05
240P	2017 08 03.54629	00 45 40.07	−29 46 25.5	18.0	T		T05
240P	2017 08 03.56529	00 45 40.32	−29 46 35.1	18.2	T		T05
240P	2017 08 05.48624	00 46 01.43	−30 02 46.3	17.1	T		T08
240P	2017 08 05.48818	00 46 01.52	−30 02 47.3	17.4	T		T08
240P	2017 08 05.49352	00 46 01.49	−30 02 50.1	17.2	T		T08
240P	2017 08 05.49547	00 46 01.45	−30 02 51.2	17.3	T		T08
240P	2017 08 05.50081	00 46 01.61	−30 02 54.4	16.7	T		T08
240P	2017 08 05.50275	00 46 01.50	−30 02 55.5	16.8	T		T08
240P	2017 08 05.50819	00 46 01.59	−30 02 57.6	17.2	T		T08
240P	2017 08 05.51014	00 46 01.59	−30 02 59.0	17.0	T		T08
240P	2017 08 05.64037	00 46 02.72	−30 04 01.8	17.8	N	K	E94
240P	2017 08 05.68091	00 46 03.11	−30 04 23.0	17.8	N	K	E94
240P	2017 08 05.72193	00 46 03.48	−30 04 43.4	17.8	N	K	E94
240P	2017 08 08.49576	00 46 23.90	−30 28 44.1	17.8	T		T05
240P	2017 08 08.50413	00 46 23.91	−30 28 49.4	17.8	T		T05
240P	2017 08 08.51248	00 46 23.99	−30 28 53.6	17.4	T		T05
240P	2017 08 08.52084	00 46 23.96	−30 28 57.1	17.6	T		T05
240P	2017 08 10.53276	00 46 31.48	−30 46 40.5	17.1	T		T08
240P	2017 08 10.54051	00 46 31.54	−30 46 44.7	17.1	T		T08
240P	2017 08 10.54826	00 46 31.52	−30 46 48.9	17.3	T		T08
240P	2017 08 10.55601	00 46 31.56	−30 46 52.7	17.3	T		T08
240P	2017 08 13.31292	00 46 32.08	−31 11 28.4	17.1	N		W96
240P	2017 08 13.33745	00 46 32.01	−31 11 41.6	16.6	N		W96
240P	2017 08 14.56268	00 46 28.37	−31 22 47.8	17.0	T		T08
240P	2017 08 14.56425	00 46 28.34	−31 22 48.7	17.0	T		T08
240P	2017 08 14.57259	00 46 28.31	−31 22 53.5	17.1	T		T08
240P	2017 08 14.58971	00 46 28.18	−31 23 02.8	16.8	T		T08
240P	2017 08 16.54502	00 46 17.79	−31 40 46.4	17.2	T		T05
240P	2017 08 16.55701	00 46 17.74	−31 40 53.3	17.7	T		T05
240P	2017 08 16.56089	00 46 17.67	−31 40 55.6	17.7	T		T05
240P	2017 08 16.56769	00 46 17.54	−31 40 59.2	17.1	T		T05
240P	2017 08 18.55923	00 46 00.67	−31 59 06.6	14.5	T		T08
240P	2017 08 18.57189	00 46 00.52	−31 59 13.6	14.6	T		T08
240P	2017 08 18.57627	00 46 00.46	−31 59 16.0	14.6	T		T08
240P	2017 08 18.58397	00 46 00.37	−31 59 20.2	14.6	T		T08
240P	2017 08 28.59065	00 43 00.30	−33 28 59.9			1	Q62
240P	2017 08 28.59352	00 43 00.25	−33 29 01.6	13.9	T	1	Q62

240P	2017 08 29.79605	00 42 27.80	−33 39 23.3	15.8	N	Q59
240P	2017 08 29.80214	00 42 27.64	−33 39 26.2	15.9	N	Q59
240P	2017 08 29.80990	00 42 27.42	−33 39 30.2	15.9	N	Q59
240P	2017 08 30.10276	00 42 19.58	−33 42 05.0	15.9	N	9 G40
240P	2017 08 30.10969	00 42 19.32	−33 42 08.8	16.1	N	9 G40
240P	2017 08 30.18238	00 42 17.38	−33 42 41.7	15.8	N	W96
240P	2017 08 30.21547	00 42 16.38	−33 42 58.6	15.8	N	W96
240P	2017 08 31.50099	00 41 38.99	−33 53 48.6	16.0	N	Q58
240P	2017 08 31.50708	00 41 38.88	−33 53 51.8	15.9	N	Q58
240P	2017 08 31.51460	00 41 38.63	−33 53 55.6	15.9	N	Q58
240P	2017 08 31.66649	00 41 33.78	−33 55 16.6	14.7	T	372
240P	2017 08 31.67813	00 41 33.42	−33 55 22.5	14.6	T	372
240P	2017 08 31.73000	00 41 31.78	−33 55 48.3			372
240P	2017 09 01.29498	00 41 14.35	−34 00 27.0	15.8	N	W96
240P	2017 09 01.31172	00 41 13.79	−34 00 35.3	15.8	N	W96
240P	2017 09 01.33005	00 41 13.19	−34 00 44.4	15.8	N	W96
240P	2017 09 01.47151	00 41 08.88	−34 01 56.6	15.4	T	T05
240P	2017 09 01.47919	00 41 08.64	−34 02 00.7	15.4	T	T05
240P	2017 09 01.48207	00 41 08.51	−34 02 02.1	15.4	T	T05
240P	2017 09 01.49362	00 41 08.15	−34 02 07.9	15.4	T	T05
240P	2017 09 01.63838	00 41 03.65	−34 03 16.5	16.7	N	25Q62
240P	2017 09 01.64240	00 41 03.53	−34 03 18.8	16.7	N	25Q62
240P	2017 09 01.73715	00 41 00.33	−34 04 08.7			K 367
240P	2017 09 01.73918	00 41 00.29	−34 04 10.0			K 367
240P	2017 09 01.74120	00 41 00.20	−34 04 10.8	14.0	T	K 367
240P	2017 09 02.28795	00 40 42.49	−34 08 35.4	15.8	N	W96
240P	2017 09 02.31729	00 40 41.51	−34 08 49.8	15.8	N	W96
240P	2017 09 02.67838	00 40 29.73	−34 11 49.0	14.2	T	349
240P	2017 09 02.68436	00 40 29.50	−34 11 52.2			349
240P	2017 09 03.47385	00 40 02.76	−34 18 11.6	15.4	T	T08
240P	2017 09 03.48235	00 40 02.52	−34 18 16.0	15.5	T	T08
240P	2017 09 03.49087	00 40 02.27	−34 18 19.9	15.9	T	T08
240P	2017 09 03.49933	00 40 01.89	−34 18 24.1	15.7	T	T08
240P	2017 09 11.28160	00 34 53.71	−35 15 13.1	15.8	N	W96
240P	2017 09 11.31746	00 34 52.08	−35 15 26.7	15.8	N	W96
240P	2017 09 11.47399	00 34 45.26	−35 16 31.0	15.4	T	T08
240P	2017 09 11.48295	00 34 44.86	−35 16 34.6	15.4	T	T08
240P	2017 09 11.49812	00 34 44.15	−35 16 40.4	15.5	T	T08
240P	2017 09 11.50362	00 34 43.89	−35 16 42.7	15.5	T	T08
240P	2017 09 12.42460	00 34 02.518	−35 22 36.86	16.7	T	F51
240P	2017 09 12.43363	00 34 02.075	−35 22 40.42	16.7	T	F51
240P	2017 09 12.44261	00 34 01.653	−35 22 43.73	17.1	T	F51
240P	2017 09 12.45162	00 34 01.228	−35 22 47.23	17.1	T	F51
240P	2017 09 12.52547	00 33 57.87	−35 23 09.7	16.1	N	Q68
240P	2017 09 12.67929	00 33 50.52	−35 24 07.7	16.1	N	Q68
240P	2017 09 14.69050	00 32 15.96	−35 36 14.0			K D81
240P	2017 09 14.69507	00 32 15.75	−35 36 15.4			K D81
240P	2017 09 14.69965	00 32 15.54	−35 36 18.4			K D81
240P	2017 09 14.70423	00 32 15.29	−35 36 18.8	15.4	T	K D81
240P	2017 09 15.45925	00 31 38.81	−35 40 33.6	15.5	T	T08
240P	2017 09 15.46337	00 31 38.61	−35 40 35.0	15.5	T	T08
240P	2017 09 15.47283	00 31 38.16	−35 40 38.5	16.0	T	T08
240P	2017 09 15.48668	00 31 37.41	−35 40 42.7	15.5	T	T08
240P	2017 09 15.55870	00 31 33.79	−35 41 06.9	16.2	T	T05
240P	2017 09 15.56909	00 31 33.20	−35 41 10.0	15.5	T	T05
240P	2017 09 15.57842	00 31 32.61	−35 41 12.5	15.7	T	T05
240P	2017 09 15.58865	00 31 32.25	−35 41 15.9	15.5	T	T05
240P	2017 09 15.77677	00 31 23.08	−35 42 14.6	16.0	N	Q58
240P	2017 09 15.78279	00 31 22.75	−35 42 16.6	16.0	N	Q58
240P	2017 09 15.78881	00 31 22.44	−35 42 18.5	16.0	N	Q58
240P	2017 09 16.33222	00 30 55.69	−35 45 14.3	14.4	T	K I47
240P	2017 09 16.34699	00 30 54.94	−35 45 19.1	14.4	T	K I47
240P	2017 09 16.35840	00 30 54.35	−35 45 22.9	14.4	T	K I47
240P	2017 09 16.72941	00 30 35.87	−35 47 18.6	16.0	N	Q68
240P	2017 09 16.77869	00 30 33.33	−35 47 33.4	16.0	N	Q68
240P	2017 09 17.17510	00 30 13.88	−35 49 37.7	16.2	N	3W88
240P	2017 09 17.17719	00 30 13.77	−35 49 38.3	16.0	N	3W88
240P	2017 09 17.18397	00 30 13.40	−35 49 40.3	16.1	N	3W88
240P	2017 09 17.18763	00 30 13.22	−35 49 41.5	16.1	N	3W88
240P	2017 09 17.19472	00 30 12.84	−35 49 43.6	16.0	N	3W88
240P	2017 09 20.20887	00 27 37.33	−36 03 43.3	15.9	N	W96
240P	2017 09 20.24172	00 27 35.52	−36 03 51.9	15.8	N	W96
240P	2017 09 21.34103	00 26 37.09	−36 08 17.3	16.2	N	3W88
240P	2017 09 21.34798	00 26 36.75	−36 08 18.8	16.2	N	3W88
240P	2017 09 21.46523	00 26 30.60	−36 08 49.2	15.9	T	T05
240P	2017 09 21.47357	00 26 30.15	−36 08 51.2	15.9	T	T05
240P	2017 09 21.48363	00 26 29.59	−36 08 53.3	15.9	T	T05
240P	2017 09 21.49367	00 26 29.03	−36 08 55.6	15.9	T	T05
240P	2017 09 25.45537	00 22 53.55	−36 21 32.2	16.0	T	T05
240P	2017 09 25.46414	00 22 53.07	−36 21 33.8	16.0	T	T05
240P	2017 09 25.47341	00 22 52.53	−36 21 35.2	16.0	T	T05
240P	2017 09 25.48220	00 22 52.03	−36 21 36.5	16.0	T	T05
240P	2017 09 27.41157	00 21 05.24	−36 25 51.8	16.1	T	T08
240P	2017 09 27.42080	00 21 04.68	−36 25 52.3	15.5	T	T08
240P	2017 09 27.42472	00 21 04.46	−36 25 52.5	15.6	T	T08
240P	2017 09 27.43068	00 21 04.10	−36 25 53.1	15.6	T	T08
240P	2017 09 27.43563	00 21 03.82	−36 25 53.8	15.6	T	T08
240P	2017 09 27.43747	00 21 03.75	−36 25 54.8	16.0	T	T08
240P	2017 09 27.44067	00 21 03.54	−36 25 54.6	15.6	T	T08
240P	2017 09 28.59204	00 19 59.42	−36 27 50.2	15.1	T	Q11
240P	2017 09 28.60911	00 19 58.45	−36 27 51.7			Q11

251P/LINEAR

251P	2017 09 18.44817	16 35 14.68	−01 07 54.6	19.3	T	K Q11
251P	2017 09 18.45693	16 35 15.88	−01 07 57.4			K Q11
251P	2017 09 21.79815	16 43 02.50	−01 24 35.3	19.0	T	K 215
251P	2017 09 21.80007	16 43 02.72	−01 24 35.0	19.3	T	K 215

259P/Garradd

259P	2017 07 18.60670	21 24 32.81	−49 09 30.5			1 Q62
259P	2017 07 18.60998	21 24 32.71	−49 09 32.7			1 Q62
259P	2017 07 18.61326	21 24 32.62	−49 09 35.0	19.0	T	1 Q62
259P	2017 07 22.32845	21 22 52.36	−49 49 02.6	19.0	N	3W88
259P	2017 07 22.33581	21 22 52.00	−49 49 06.1	19.2	N	3W88
259P	2017 08 12.98193	21 07 16.72	−51 26 51.5	18.6	N	KW96
259P	2017 08 13.01852	21 07 14.98	−51 26 49.4	18.6	N	KW96
259P	2017 08 13.04796	21 07 13.46	−51 26 46.8	18.7	N	KW96

259P	2017 08 13.45512	21 06 55.24	−51 26 11.4			1	Q62
259P	2017 08 13.45763	21 06 55.13	−51 26 11.2	18.4	T	1	Q62
259P	2017 08 27.95633	20 58 45.50	−50 08 30.8	19.5	T		Y00
259P	2017 08 27.96813	20 58 45.32	−50 08 23.4	18.9	T		Y00
259P	2017 08 27.98804	20 58 44.85	−50 08 13.9	19.0	T		Y00
259P	2017 09 21.29481	21 02 43.269	−44 53 10.46	20.0	T		F51
259P	2017 09 21.30256	21 02 43.521	−44 53 03.27	20.1	T		F51
259P	2017 09 21.31034	21 02 43.800	−44 52 55.59	20.0	T		F51
259P	2017 09 21.31807	21 02 44.031	−44 52 48.27	20.2	T		F51

315P/LONEOS

315P	2016 12 02.41293	11 13 04.34	+24 40 52.8				C51
Geocentric position (km)		− 6510.9254	− 144.6014	+ 2161.8356			
315P	2017 03 20.47652	11 43 54.64	+32 22 02.7	14.0	T		D95
315P	2017 03 20.48083	11 43 54.46	+32 22 02.0				D95
315P	2017 03 20.48514	11 43 54.27	+32 22 01.5				D95
315P	2017 07 12.26730	12 20 17.66	+12 08 04.5	18.8	T		T05
315P	2017 07 12.27572	12 20 18.17	+12 07 57.2	18.6	T		T05
315P	2017 07 12.27621	12 20 18.22	+12 07 57.8	18.6	T		T05
315P	2017 07 12.27669	12 20 18.26	+12 07 56.8	18.5	T		T05
315P	2017 07 12.29020	12 20 19.16	+12 07 46.6	19.0	T		T05

333P/LINEAR

333P	2017 07 27.37499	20 13 14.900	−07 52 31.78	21.2	T		F51
333P	2017 07 27.38764	20 13 13.939	−07 52 38.11	21.0	T		F51
333P	2017 07 27.40026	20 13 13.008	−07 52 44.36	21.0	T		F51
333P	2017 07 27.43700	20 13 10.245	−07 53 02.74	21.2	T		F51

352P/Skiff

352P	2017 07 08.60002	00 59 24.40	−12 21 18.0	17.8	T		T08
352P	2017 07 08.60843	00 59 24.87	−12 21 13.0	17.8	T		T08
352P	2017 07 08.61686	00 59 25.30	−12 21 10.7	17.9	T		T08
352P	2017 07 08.62474	00 59 25.62	−12 21 07.8	17.6	T		T08
352P	2017 07 11.59144	01 01 59.75	−12 03 28.2	17.9	T		T05
352P	2017 07 11.59893	01 02 00.12	−12 03 25.0	18.1	T		T05
352P	2017 07 11.60757	01 02 00.57	−12 03 21.7	18.1	T		T05
352P	2017 07 11.61771	01 02 01.06	−12 03 18.5	18.0	T		T05
352P	2017 07 18.37414	01 07 13.25	−11 25 45.1	17.8	N		W96
352P	2017 07 18.41901	01 07 15.02	−11 25 30.8	17.7	N		W96
352P	2017 07 19.02554	01 07 40.48	−11 22 24.5	18.4	N	K	585
352P	2017 07 19.02767	01 07 40.56	−11 22 24.4	18.7	N	K	585
352P	2017 07 19.02803	01 07 40.57	−11 22 24.2	18.0	T	K	585
352P	2017 07 19.02909	01 07 40.59	−11 22 23.4	18.0	T	K	585
352P	2017 07 19.02980	01 07 40.63	−11 22 23.2	17.9	T	K	585
352P	2017 07 20.16944	01 08 26.72	−11 16 29.2	17.5	N		J22
352P	2017 07 20.17330	01 08 26.93	−11 16 28.0	17.5	N		J22
352P	2017 07 20.17718	01 08 27.12	−11 16 26.0	17.5	N		J22
352P	2017 07 24.26629	01 10 58.57	−10 56 07.2	17.3	N		W96
352P	2017 07 24.29797	01 10 59.62	−10 55 58.2	17.3	N		W96
352P	2017 07 27.42158	01 12 39.81	−10 41 23.0	18.1	N		3W88
352P	2017 07 27.42722	01 12 39.95	−10 41 21.0	18.5	N		3W88
352P	2017 07 27.43291	01 12 40.14	−10 41 19.6	18.2	N		3W88
352P	2017 07 29.57650	01 13 41.07	−10 31 49.3	17.6	T		T08
352P	2017 07 29.58496	01 13 41.29	−10 31 47.4	17.8	T		T08
352P	2017 07 29.59341	01 13 41.50	−10 31 44.8	17.7	T		T08
352P	2017 07 29.60196	01 13 41.70	−10 31 42.9	17.7	T		T08
352P	2017 07 30.15512	01 13 56.45	−10 29 18.5	17.4	N		J22
352P	2017 07 30.15906	01 13 56.55	−10 29 17.4	17.4	N		J22
352P	2017 07 30.16302	01 13 56.67	−10 29 16.5	17.4	N		J22
352P	2017 08 01.06086	01 14 43.39	−10 21 10.7	17.9	T	K	215
352P	2017 08 01.06278	01 14 43.42	−10 21 10.1	17.9	T	K	215
352P	2017 08 01.06470	01 14 43.43	−10 21 09.6	17.4	T	K	215
352P	2017 08 01.74910	01 14 59.01	−10 18 17.4			K	367
352P	2017 08 01.75194	01 14 59.12	−10 18 16.3	16.9	T	K	367
352P	2017 08 02.59054	01 15 17.13	−10 14 47.8	17.6	T		T08
352P	2017 08 02.60136	01 15 17.35	−10 14 45.4	17.5	T		T08
352P	2017 08 02.61111	01 15 17.52	−10 14 42.9	17.6	T		T08
352P	2017 08 02.62117	01 15 17.72	−10 14 40.0	17.7	T		T08
352P	2017 08 05.50571	01 16 12.05	−10 03 07.1	17.3	T		T08
352P	2017 08 05.51313	01 16 12.22	−10 03 06.3	17.4	T		T08
352P	2017 08 05.52004	01 16 12.31	−10 03 05.1	17.6	T		T08
352P	2017 08 05.52740	01 16 12.48	−10 03 02.6	17.4	T		T08
352P	2017 08 15.04499	01 17 39.77	−09 28 35.2	17.8	N	K	A71
352P	2017 08 15.05381	01 17 39.75	−09 28 33.4	17.7	N	K	A71
352P	2017 08 15.06374	01 17 39.77	−09 28 31.2	17.8	N	K	A71
352P	2017 08 16.04166	01 17 40.63	−09 25 16.2	16.9	N	K	K02
352P	2017 08 16.04846	01 17 40.68	−09 25 14.2	17.4	N	K	K02
352P	2017 08 16.23682	01 17 40.61	−09 24 31.7	17.5	N		W96
352P	2017 08 16.27190	01 17 40.63	−09 24 24.4	17.4	N		W96
352P	2017 08 22.07572	01 17 11.14	−09 05 57.2	17.5	N	9	G40
352P	2017 08 22.09129	01 17 10.99	−09 05 53.9	17.3	N	9	G40
352P	2017 08 22.10143	01 17 10.85	−09 05 52.2	17.2	N	9	G40
352P	2017 08 22.10205	01 17 10.70	−09 05 52.6	17.5	N	K	A77
352P	2017 08 22.12534	01 17 10.44	−09 05 48.0	17.5	N	K	A77
352P	2017 08 22.14339	01 17 10.22	−09 05 45.1	17.5	N	K	A77
352P	2017 08 24.20030	01 16 46.38	−08 59 25.7	17.1	N		J22
352P	2017 08 24.20416	01 16 46.37	−08 59 25.3	17.1	N		J22
352P	2017 08 24.20803	01 16 46.27	−08 59 24.6	17.1	N		J22
352P	2017 08 24.56682	01 16 41.564	−08 58 18.75	18.8	T		F51
352P	2017 08 24.57977	01 16 41.355	−08 58 16.28	18.9	T		F51
352P	2017 08 24.59277	01 16 41.154	−08 58 14.01	18.7	T		F51
352P	2017 08 24.60570	01 16 40.946	−08 58 11.54	18.8	T		F51
352P	2017 08 26.65584	01 16 09.29	−08 52 02.0	16.3	T		D95
352P	2017 08 26.66125	01 16 09.19	−08 52 00.7				D95
352P	2017 08 26.66448	01 16 09.14	−08 52 00.5				D95
352P	2017 08 27.77379	01 15 48.95	−08 48 41.9	16.5	T		D29
352P	2017 08 27.78881	01 15 48.65	−08 48 39.3	16.6	T		D29
352P	2017 08 27.80384	01 15 48.33	−08 48 36.4	16.6	T		D29
352P	2017 08 29.53590	01 15 13.32	−08 43 25.7	16.9	T		T05
352P	2017 08 29.54430	01 15 13.17	−08 43 24.0	17.7	T		T05
352P	2017 08 29.55363	01 15 12.92	−08 43 22.4	16.9	T		T05
352P	2017 08 29.56198	01 15 12.73	−08 43 21.0	17.2	T		T05
352P	2017 08 30.01029	01 15 03.15	−08 42 04.1	17.3	N	K	A71
352P	2017 08 30.02004	01 15 02.93	−08 42 02.2	17.4	N	K	A71
352P	2017 08 30.02978	01 15 02.67	−08 42 00.5	17.4	N	K	A71
352P	2017 08 30.03953	01 15 02.47	−08 41 58.7	17.4	N	K	A71
352P	2017 08 31.16448	01 14 35.99	−08 38 35.4	17.0	N		J22

352P	2017 08 31.16642	01 14 36.02	−08 38 35.6	17.0	N	J22	352P	2017 09 14.12661	01 06 46.14	−07 55 23.7	16.9	N	J22
352P	2017 08 31.50317	01 14 27.92	−08 37 34.8	16.9	T	T08	352P	2017 09 14.46939	01 06 31.64	−07 54 15.3	16.8	T	T05
352P	2017 08 31.51025	01 14 27.74	−08 37 33.7	16.8	T	T08	352P	2017 09 14.47654	01 06 31.34	−07 54 13.6	16.8	T	T05
352P	2017 08 31.51807	01 14 27.50	−08 37 32.2	16.8	T	T08	352P	2017 09 14.48395	01 06 31.00	−07 54 12.0	16.8	T	T05
352P	2017 08 31.52526	01 14 27.40	−08 37 31.0	17.4	T	T08	352P	2017 09 14.49088	01 06 30.68	−07 54 10.7	16.8	T	T05
352P	2017 08 31.64539	01 14 24.54	−08 37 10.3			900	352P	2017 09 15.02559	01 06 07.79	−07 52 24.7	17.0	N	K K02
352P	2017 08 31.65253	01 14 24.32	−08 37 09.0	16.5	T	900	352P	2017 09 15.03502	01 06 07.38	−07 52 23.5	16.6	N	K K02
352P	2017 08 31.96395	01 14 16.59	−08 36 13.9	17.8	N	C10	352P	2017 09 16.46139	01 05 04.66	−07 47 29.5	16.8	T	T08
352P	2017 09 01.01302	01 14 15.29	−08 36 04.9	17.5	N	C10	352P	2017 09 16.46651	01 05 04.47	−07 47 28.6	16.9	T	T08
352P	2017 09 01.02368	01 14 15.04	−08 36 03.4	17.6	N	C10	352P	2017 09 16.47504	01 05 04.05	−07 47 26.7	16.6	T	T08
352P	2017 09 02.08959	01 13 47.09	−08 32 52.6	17.1	N	K A77	352P	2017 09 16.48195	01 05 03.71	−07 47 25.6	16.7	T	T08
352P	2017 09 02.09365	01 13 46.98	−08 32 51.9	17.1	N	K A77	352P	2017 09 16.49502	01 05 03.226	−07 47 22.85	18.6	T	F51
352P	2017 09 02.09770	01 13 46.92	−08 32 51.3	17.2	N	K A77	352P	2017 09 16.55461	01 05 00.443	−07 47 10.46	18.5	T	F51
352P	2017 09 02.48020	01 13 36.58	−08 31 41.7	16.9	T	T05	352P	2017 09 16.56918	01 04 59.766	−07 47 07.41	18.5	T	F51
352P	2017 09 02.48791	01 13 36.34	−08 31 40.3	16.8	T	T05	352P	2017 09 16.58373	01 04 59.090	−07 47 04.37	18.5	T	F51
352P	2017 09 02.49554	01 13 36.17	−08 31 38.4	17.6	T	T05	352P	2017 09 16.73823	01 04 52.13	−07 46 27.1	17.4	N	Q68
352P	2017 09 02.50312	01 13 35.91	−08 31 37.1	16.9	T	T05	352P	2017 09 16.78783	01 04 49.83	−07 46 16.9	17.4	N	Q68
352P	2017 09 03.06863	01 13 20.15	−08 29 57.7	17.4	N	K K02	352P	2017 09 22.45256	01 00 22.32	−07 25 43.2	17.1	T	T05
352P	2017 09 03.07632	01 13 19.90	−08 29 56.6	17.4	N	K K02	352P	2017 09 22.45729	01 00 22.12	−07 25 42.4	17.1	T	T05
352P	2017 09 03.49187	01 13 08.01	−08 28 39.4	17.4	T	T08	352P	2017 09 22.46605	01 00 21.65	−07 25 40.2	17.1	T	T05
352P	2017 09 03.50033	01 13 07.71	−08 28 38.7	16.6	T	T08	352P	2017 09 22.47279	01 00 21.30	−07 25 38.5	17.1	T	T05
352P	2017 09 03.50888	01 13 07.49	−08 28 37.3	17.1	T	T08	352P	2017 09 24.73946	00 58 27.98	−07 16 44.8	17.1	T	Q11
352P	2017 09 03.51735	01 13 07.25	−08 28 34.4	17.3	T	T08	352P	2017 09 24.75016	00 58 27.41	−07 16 42.2			Q11
352P	2017 09 11.97930	01 08 14.38	−08 02 26.3	16.6	N	K 585	352P	2017 09 24.75373	00 58 27.23	−07 16 41.4			Q11
352P	2017 09 11.98001	01 08 14.38	−08 02 26.3	16.7	N	K 585	352P	2017 09 25.02951	00 58 13.40	−07 15 35.0	17.1	N	K A77
352P	2017 09 11.98072	01 08 14.37	−08 02 26.6	16.8	N	K 585	352P	2017 09 25.04760	00 58 12.48	−07 15 30.7	17.1	N	K A77
352P	2017 09 11.98143	01 08 14.28	−08 02 25.8	16.8	N	K 585	352P	2017 09 25.06570	00 58 11.50	−07 15 26.4	17.0	N	K A77
352P	2017 09 11.98284	01 08 14.25	−08 02 25.3	17.0	N	K 585	352P	2017 09 25.43332	00 57 53.060	−07 13 55.74	18.5	T	F51
352P	2017 09 11.98426	01 08 14.15	−08 02 25.1	16.8	N	K 585	352P	2017 09 25.44596	00 57 52.391	−07 13 52.64	18.5	T	F51
352P	2017 09 11.98497	01 08 14.14	−08 02 25.3	16.9	N	K 585	352P	2017 09 25.45865	00 57 51.720	−07 13 49.56	18.6	T	F51
352P	2017 09 11.98568	01 08 14.11	−08 02 25.2	16.8	N	K 585	352P	2017 09 25.47137	00 57 51.048	−07 13 46.44	18.6	T	F51
352P	2017 09 11.98638	01 08 14.10	−08 02 25.5	17.0	N	K 585	352P	2017 09 26.07100	00 57 20.49	−07 11 19.7	16.9	N	J22
352P	2017 09 11.98780	01 08 14.06	−08 02 25.1	16.9	N	K 585	352P	2017 09 26.07498	00 57 20.27	−07 11 18.6	16.9	N	J22
352P	2017 09 11.98851	01 08 14.00	−08 02 25.1	17.0	N	K 585	352P	2017 09 26.07889	00 57 20.09	−07 11 17.8	16.9	N	J22
352P	2017 09 11.98886	01 08 14.05	−08 02 25.4	16.8	N	585	352P	2017 09 26.42255	00 57 02.57	−07 09 51.0	17.5	T	T05
352P	2017 09 11.98922	01 08 14.03	−08 02 24.8	16.9	N	K 585	352P	2017 09 26.42857	00 57 02.20	−07 09 49.2	16.6	T	T05
352P	2017 09 11.98992	01 08 13.99	−08 02 24.9	16.9	N	K 585	352P	2017 09 26.43470	00 57 01.86	−07 09 47.7	16.5	T	T05
352P	2017 09 12.00761	01 08 13.35	−08 02 21.3	17.3	N	K K02	352P	2017 09 26.43883	00 57 01.698	−07 09 47.41	18.4	T	F51
352P	2017 09 12.01271	01 08 13.14	−08 02 21.1	17.1	N	K K02	352P	2017 09 26.43937	00 57 01.62	−07 09 46.9	16.7	T	T05
352P	2017 09 12.01781	01 08 12.98	−08 02 19.6	17.3	N	K K02	352P	2017 09 26.45129	00 57 01.039	−07 09 44.20	18.5	T	F51
352P	2017 09 12.47309	01 07 54.60	−08 00 49.5	17.3	T	T08	352P	2017 09 26.46379	00 57 00.376	−07 09 41.18	18.5	T	F51
352P	2017 09 12.47981	01 07 54.32	−08 00 47.8	17.3	T	T08	352P	2017 09 26.47629	00 56 59.707	−07 09 37.97	18.5	T	F51
352P	2017 09 12.48721	01 07 53.98	−08 00 46.5	17.2	T	T08	352P	2017 09 28.42317	00 55 19.31	−07 01 21.4	16.7	T	T08
352P	2017 09 12.49410	01 07 53.75	−08 00 45.0	17.3	T	T08	352P	2017 09 28.43399	00 55 18.77	−07 01 18.3	16.7	T	T08
352P	2017 09 12.54366	01 07 51.88	−08 00 30.6	17.4	N	Q68	352P	2017 09 28.43720	00 55 18.57	−07 01 17.4	16.6	T	T08
352P	2017 09 12.58573	01 07 50.14	−08 00 22.4	17.4	N	Q68	352P	2017 09 28.44603	00 55 18.11	−07 01 15.0	16.7	T	T08
352P	2017 09 12.68767	01 07 45.75	−08 00 02.5	17.3	N	Q68	352P	2017 09 29.48835	00 54 23.959	−06 56 41.77	18.3	T	F51
352P	2017 09 13.62138	01 07 07.45	−07 57 04.8			K D81	352P	2017 09 29.49982	00 54 23.341	−06 56 38.70	18.3	T	F51
352P	2017 09 13.62519	01 07 07.30	−07 57 04.4			K D81	352P	2017 09 29.51121	00 54 22.730	−06 56 35.65	18.3	T	F51
352P	2017 09 13.65039	01 07 06.18	−07 56 59.2			K D81	352P	2017 09 30.09735	00 53 52.25	−06 53 59.6	17.0	N	9 G40
352P	2017 09 13.65726	01 07 05.89	−07 56 57.6	17.4	T	K D81	352P	2017 09 30.10572	00 53 51.80	−06 53 57.0	17.0	N	9 G40
352P	2017 09 14.11869	01 06 46.50	−07 55 25.8	16.9	N	J22	352P	2017 09 30.42672	00 53 35.13	−06 52 29.9	17.6	T	T05
352P	2017 09 14.12068	01 06 46.38	−07 55 25.2	16.9	N	J22	352P	2017 09 30.43790	00 53 34.51	−06 52 26.7	16.7	T	T05

352P	2017 09 30.44263	00 53 34.27	−06 52 25.3	16.7	T		T05
352P	2017 09 30.45055	00 53 33.85	−06 52 23.4	17.4	T		T05

353P/McNaught

353P	2017 07 17.92030	20 23 36.99	−18 15 33.8	19.4	T	K	215
353P	2017 07 17.92351	20 23 36.85	−18 15 37.3	19.6	T	K	215
353P	2017 07 17.92672	20 23 36.72	−18 15 40.2	19.4	T	K	215
353P	2017 07 24.44897	20 18 58.61	−20 01 32.4	18.7	T		T08
353P	2017 07 24.45285	20 18 58.33	−20 01 37.7	18.9	T		T08
353P	2017 07 24.45770	20 18 58.18	−20 01 40.7	18.6	T		T08
353P	2017 07 24.46595	20 18 57.80	−20 01 50.2	18.7	T		T08
353P	2017 07 24.47129	20 18 57.50	−20 01 54.1	18.5	T		T08
353P	2017 07 24.48197	20 18 57.00	−20 02 05.1	18.5	T		T08
353P	2017 07 28.91326	20 15 37.49	−21 15 48.5	19.9	N	K	A71
353P	2017 07 28.92486	20 15 36.84	−21 15 59.3	20.3	N	K	A71
353P	2017 08 01.42912	20 12 57.082	−22 14 27.57	19.0	T		F51
353P	2017 08 01.43908	20 12 56.600	−22 14 37.48	19.0	T		F51
353P	2017 08 01.44904	20 12 56.123	−22 14 47.37	19.0	T		F51
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353P	2017 08 15.36275	20 03 06.139	−25 58 47.02	19.5	T		F51
353P	2017 08 15.37328	20 03 05.719	−25 58 56.70	19.5	T		F51
353P	2017 08 15.37393	20 03 05.696	−25 58 57.24	19.5	T		F51
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353P	2017 08 15.39434	20 03 04.881	−25 59 15.84	19.4	T		F51
353P	2017 08 15.39499	20 03 04.853	−25 59 16.47	19.4	T		F51

355P/LINEAR-NEAT

355P	2017 06 30.78617	00 52 28.56	−07 55 19.1			1	Q62
355P	2017 06 30.78844	00 52 28.81	−07 55 18.2			1	Q62
355P	2017 06 30.79071	00 52 29.08	−07 55 17.3	20.3	T	1	Q62
355P	2017 08 02.13762	01 49 25.80	−03 25 16.5	18.8	T	9	G40
355P	2017 08 02.15017	01 49 27.02	−03 25 10.8	18.8	T	9	G40
355P	2017 08 02.15400	01 49 27.44	−03 25 08.8	19.0	T	9	G40
355P	2017 08 06.56982	01 56 27.930	−02 51 51.66	19.8	T		F51
355P	2017 08 06.58215	01 56 29.058	−02 51 46.22	19.7	T		F51
355P	2017 08 06.59450	01 56 30.178	−02 51 40.73	20.0	T		F51
355P	2017 08 06.60686	01 56 31.299	−02 51 34.98	20.2	T		F51
355P	2017 08 18.01505	02 13 16.13	−01 29 31.5	18.4	N	K	160
355P	2017 08 18.01712	02 13 16.28	−01 29 30.4	18.7	N	K	160
355P	2017 08 18.01919	02 13 16.46	−01 29 29.3	18.6	N	K	160
355P	2017 08 20.83436	02 17 02.05	−01 09 58.4	17.9	T		D29
355P	2017 08 20.84295	02 17 02.69	−01 09 55.3	17.9	T		D29
355P	2017 08 20.85153	02 17 03.26	−01 09 52.3	17.9	T		D29
355P	2017 08 21.05528	02 17 19.58	−01 08 28.3	18.2	N	K	160
355P	2017 08 21.05734	02 17 19.72	−01 08 28.3	17.5	N	K	160
355P	2017 08 21.05940	02 17 19.77	−01 08 27.2	18.5	N	K	160
355P	2017 08 23.03070	02 19 51.44	−00 54 59.3	18.6	N	K	160
355P	2017 08 23.03276	02 19 51.70	−00 54 57.3	17.8	N	K	160
355P	2017 08 23.03482	02 19 51.88	−00 54 56.0	18.3	N	K	160
355P	2017 08 24.06331	02 21 08.89	−00 47 57.0	17.6	N	K	160
355P	2017 08 24.06554	02 21 09.03	−00 47 56.8	18.7	N	K	160
355P	2017 08 24.06778	02 21 09.17	−00 47 55.6	18.1	N	K	160
355P	2017 08 26.67244	02 24 17.64	−00 30 19.8	17.5	T	K	D95
355P	2017 08 26.67567	02 24 17.90	−00 30 18.5			K	D95
355P	2017 08 26.67891	02 24 18.09	−00 30 16.0			K	D95
355P	2017 08 30.12678	02 28 11.95	−00 07 11.7	17.7	N	K	A77
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355P	2017 08 30.26214	02 28 20.92	−00 06 08.1	17.6	N		W96
355P	2017 08 30.29551	02 28 22.98	−00 05 54.1	17.7	N		W96
355P	2017 08 31.70260	02 29 52.84	+00 03 20.5	18.0	N		372
355P	2017 08 31.70763	02 29 53.15	+00 03 22.4				372
355P	2017 09 01.77486	02 30 58.92	+00 10 27.6			K	367
355P	2017 09 01.77769	02 30 59.07	+00 10 29.1	17.0	T	K	367
355P	2017 09 02.57230	02 31 47.054	+00 15 47.86	19.2	T		F51
355P	2017 09 02.58597	02 31 47.826	+00 15 53.36	19.2	T		F51
355P	2017 09 02.59955	02 31 48.577	+00 15 58.84	18.7	T		F51
355P	2017 09 02.61315	02 31 49.342	+00 16 04.31	18.6	T		F51
355P	2017 09 03.32833	02 32 31.63	+00 20 56.4	17.7	N		W96
355P	2017 09 03.35471	02 32 32.98	+00 21 07.2	17.9	N		W96
355P	2017 09 03.69346	02 32 52.86	+00 23 14.1	17.1	T		349
355P	2017 09 03.70267	02 32 53.36	+00 23 17.9				349
355P	2017 09 12.03538	02 39 50.24	+01 19 05.7	17.6	N	K	585
355P	2017 09 12.03608	02 39 50.21	+01 19 06.3	17.5	N	K	585
355P	2017 09 12.03679	02 39 50.28	+01 19 06.5	17.3	N	K	585
355P	2017 09 12.03750	02 39 50.29	+01 19 06.8	17.2	N	K	585
355P	2017 09 12.03821	02 39 50.33	+01 19 06.5	17.1	N	K	585
355P	2017 09 12.03998	02 39 50.40	+01 19 06.8	17.3	N	K	585
355P	2017 09 12.04069	02 39 50.45	+01 19 08.4	17.4	N	K	585
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355P	2017 09 12.04211	02 39 50.48	+01 19 09.4	17.4	N	K	585
355P	2017 09 12.04282	02 39 50.52	+01 19 08.7	17.4	N	K	585
355P	2017 09 12.04499	02 39 50.61	+01 19 09.8	17.3	N	K	585
355P	2017 09 12.04573	02 39 50.63	+01 19 10.7	17.3	N	K	585
355P	2017 09 12.51053	02 40 10.06	+01 22 23.4	17.3	T		T08
355P	2017 09 12.51701	02 40 10.33	+01 22 26.2	17.6	T		T08
355P	2017 09 12.51748	02 40 10.37	+01 22 26.3	17.2	T		T08
355P	2017 09 12.52385	02 40 10.57	+01 22 28.3	17.2	T		T08
355P	2017 09 12.52493	02 40 10.56	+01 22 29.7	17.2	T		T08
355P	2017 09 12.53172	02 40 10.86	+01 22 32.3	17.2	T		T08
355P	2017 09 12.63551	02 40 15.27	+01 23 22.8	17.8	N		Q68
355P	2017 09 12.65507	02 40 16.02	+01 23 31.1	17.5	N		Q68
355P	2017 09 12.66144	02 40 16.25	+01 23 33.1	17.6	N		Q68
355P	2017 09 12.69982	02 40 17.65	+01 23 49.2	17.8	N		Q68
355P	2017 09 13.17542	02 40 37.05	+01 27 03.1	16.8	T	K	I47
355P	2017 09 13.18754	02 40 37.56	+01 27 08.3	16.8	T	K	I47
355P	2017 09 13.19966	02 40 38.02	+01 27 13.1	16.8	T	K	I47
355P	2017 09 13.67163	02 40 56.32	+01 30 16.2			K	D81
355P	2017 09 13.67849	02 40 56.57	+01 30 18.2			K	D81
355P	2017 09 13.68536	02 40 56.79	+01 30 21.4			K	D81
355P	2017 09 13.69261	02 40 57.09	+01 30 23.0	17.6	T	K	D81
355P	2017 09 14.50741	02 41 27.82	+01 36 00.5	17.2	T		T05
355P	2017 09 14.51439	02 41 28.07	+01 36 03.2	17.1	T		T05
355P	2017 09 14.52196	02 41 28.34	+01 36 06.0	17.8	T		T05
355P	2017 09 14.52885	02 41 28.59	+01 36 09.2	17.8	T		T05
355P	2017 09 15.08290	02 41 48.61	+01 39 52.6	17.7	N	K	K02

355P	2017 09 15.09068	02 41 48.85	+01 39 56.0	17.3	N	K	K02
355P	2017 09 16.74686	02 42 44.60	+01 51 36.0	17.6	N		Q68
355P	2017 09 16.79153	02 42 45.83	+01 51 54.9	17.6	N		Q68
355P	2017 09 17.10622	02 42 55.90	+01 53 52.7	17.0	N	K	585
355P	2017 09 17.10693	02 42 55.88	+01 53 52.5	17.1	N	K	585
355P	2017 09 17.10763	02 42 55.96	+01 53 52.9	17.1	N	K	585
355P	2017 09 17.10834	02 42 56.00	+01 53 53.1	17.1	N	K	585
355P	2017 09 17.10905	02 42 56.01	+01 53 53.4	16.8	N	K	585
355P	2017 09 17.10976	02 42 56.01	+01 53 54.3	16.6	N	K	585
355P	2017 09 17.11047	02 42 56.02	+01 53 54.2	16.7	N	K	585
355P	2017 09 18.21311	02 43 29.55	+02 01 47.9	17.3	N		W96
355P	2017 09 18.24263	02 43 30.27	+02 02 00.9	17.3	N		W96
355P	2017 09 18.27507	02 43 31.36	+02 02 04.9	16.7	T		H15
355P	2017 09 18.28152	02 43 31.53	+02 02 07.7	17.0	T		H15
355P	2017 09 18.28789	02 43 31.67	+02 02 09.9	16.9	T		H15
355P	2017 09 23.03522	02 45 21.57	+02 36 04.5	17.6	N	K	A71
355P	2017 09 23.04289	02 45 21.71	+02 36 08.1	17.6	N	K	A71
355P	2017 09 23.05055	02 45 21.84	+02 36 11.3	17.6	N	K	A71
355P	2017 09 25.77234	02 46 01.31	+02 56 21.2	16.7	T	K	Q11
355P	2017 09 25.78443	02 46 01.42	+02 56 26.8			K	Q11
355P	2017 09 26.47369	02 46 09.24	+03 01 40.2	17.6	T		T05
355P	2017 09 26.48071	02 46 09.24	+03 01 43.7	16.7	T		T05
355P	2017 09 26.48717	02 46 09.28	+03 01 46.7	16.6	T		T05
355P	2017 09 26.49417	02 46 09.31	+03 01 49.8	16.9	T		T05
355P	2017 09 26.50200	02 46 09.418	+03 01 52.85	18.8	T		F51
355P	2017 09 26.51561	02 46 09.490	+03 01 59.13	18.9	T		F51
355P	2017 09 26.52921	02 46 09.566	+03 02 05.22	18.7	T		F51
355P	2017 09 26.54286	02 46 09.647	+03 02 11.50	18.8	T		F51
355P	2017 09 27.33005	02 46 16.63	+03 08 06.6				G96
355P	2017 09 27.33561	02 46 16.69	+03 08 12.0	16.1	T		G96
355P	2017 09 27.34102	02 46 16.72	+03 08 14.5	16.1	T		G96
355P	2017 09 27.34633	02 46 16.76	+03 08 16.9	16.2	T		G96
355P	2017 09 28.47591	02 46 24.10	+03 17 00.0	16.7	T		T08
355P	2017 09 28.48310	02 46 24.10	+03 17 03.4	16.7	T		T08
355P	2017 09 28.49029	02 46 24.13	+03 17 06.8	16.8	T		T08
355P	2017 09 28.49753	02 46 24.14	+03 17 10.0	16.7	T		T08
355P	2017 09 28.53033	02 46 24.276	+03 17 24.45	18.5	T		F51
355P	2017 09 28.54238	02 46 24.287	+03 17 30.17	18.6	T		F51
355P	2017 09 28.55441	02 46 24.297	+03 17 35.72	18.6	T		F51
355P	2017 09 30.49985	02 46 29.833	+03 32 50.22	18.2	T		F51
355P	2017 09 30.52410	02 46 29.747	+03 33 01.79	18.5	T		F51
355P	2017 09 30.53626	02 46 29.686	+03 33 08.43	19.1	T		F51

356P/WISE

356P	2017 07 30.54206	00 42 00.182	+01 58 12.80	21.1	T		F51
356P	2017 07 30.55199	00 42 00.432	+01 58 12.03	20.9	T		F51
356P	2017 07 30.56192	00 42 00.679	+01 58 11.41	21.0	T		F51
356P	2017 08 01.468027	00 42 50.060	+01 55 40.96	20.4	T	29	568
356P	2017 08 01.469234	00 42 50.095	+01 55 40.85	20.7	T	29	568
356P	2017 08 01.470442	00 42 50.126	+01 55 40.73	20.5	T	29	568
356P	2017 08 01.76561	00 42 57.05	+01 55 17.0	19.2	T	Q	Q62
356P	2017 08 01.78166	00 42 57.52	+01 55 16.4	19.2	T	Q	Q62
356P	2017 08 01.79677	00 42 57.91	+01 55 14.5	19.6	T	Q	Q62
356P	2017 08 02.34903	00 43 11.24	+01 54 23.1	19.8	T		KW96
356P	2017 08 02.36408	00 43 11.62	+01 54 21.2	19.9	T		KW96
356P	2017 08 02.37914	00 43 11.91	+01 54 19.9	19.9	T		KW96
356P	2017 08 03.05994	00 43 27.92	+01 53 07.9	19.5	T	K	461
356P	2017 08 03.06803	00 43 28.12	+01 53 06.7	19.2	T	K	461
356P	2017 08 03.13148	00 43 29.68	+01 53 01.4	19.7	T	9	G40
356P	2017 08 03.16259	00 43 30.37	+01 52 58.0	19.8	T	9	G40
356P	2017 08 16.93391	00 46 54.80	+01 13 56.5	19.2	N	K	A71
356P	2017 08 16.95340	00 46 54.92	+01 13 52.7	19.3	N	K	A71
356P	2017 08 16.97289	00 46 55.00	+01 13 47.5	19.3	N	K	A71
356P	2017 08 16.99235	00 46 55.13	+01 13 42.9	19.4	N	K	A71
356P	2017 08 24.52365	00 47 08.089	+00 39 32.40	20.4	T		F51
356P	2017 08 24.53594	00 47 08.024	+00 39 28.50	20.4	T		F51
356P	2017 08 24.54834	00 47 07.977	+00 39 24.82	20.5	T		F51
356P	2017 08 24.56055	00 47 07.913	+00 39 20.94	20.4	T		F51
356P	2017 08 25.975729	00 47 02.57	+00 31 55.5	19.8	N		L01
356P	2017 08 26.044711	00 47 02.08	+00 31 32.5	19.4	N		L01
356P	2017 08 26.053796	00 47 02.05	+00 31 29.8	19.3	N		L01
356P	2017 08 31.48684	00 46 18.25	+00 00 25.6	19.0	T		T08
356P	2017 08 31.49398	00 46 18.18	+00 00 22.6	19.1	T		T08
356P	2017 08 31.50155	00 46 17.91	+00 00 19.8	18.9	T		T08
356P	2017 08 31.50875	00 46 17.93	+00 00 18.0	19.0	T		T08
356P	2017 09 12.45951	00 42 46.20	−01 20 21.7	18.7	T		T08
356P	2017 09 12.46633	00 42 45.98	−01 20 22.5	18.8	T		T08
356P	2017 09 12.47357	00 42 45.90	−01 20 28.3	19.0	T		T08
356P	2017 09 12.48029	00 42 45.77	−01 20 30.6	18.6	T		T08
356P	2017 09 13.90651	00 42 11.15	−01 31 01.8	19.0	T	K	215
356P	2017 09 13.90908	00 42 11.08	−01 31 02.6	19.0	T	K	215
356P	2017 09 13.91165	00 42 11.00	−01 31 03.2	18.9	T	K	215
356P	2017 09 14.46293	00 41 57.10	−01 35 06.3	18.7	T		T05
356P	2017 09 14.46385	00 41 57.11	−01 35 06.8	19.0	T		T05
356P	2017 09 14.47248	00 41 56.88	−01 35 10.7	18.4	T		T05
356P	2017 09 14.47703	00 41 56.69	−01 35 12.9	18.1	T		T05
356P	2017 09 20.28095	00 39 16.83	−02 19 04.6	18.1	T		703
356P	2017 09 20.28632	00 39 16.68	−02 19 07.2	18.4	T		703
356P	2017 09 20.29167	00 39 16.44	−02 19 09.4	17.8	T		703
356P	2017 09 20.29703	00 39 16.27	−02 19 12.1	18.0	T		703
356P	2017 09 25.43136	00 36 38.216	−02 58 29.14	19.6	T		F51
356P	2017 09 25.44401	00 36 37.789	−02 58 34.99	19.6	T		F51
356P	2017 09 25.45671	00 36 37.358	−02 58 40.77	19.7	T		F51
356P	2017 09 25.46940	00 36 36.930	−02 58 46.52	19.6	T		F51
356P	2017 09 26.39296	00 36 07.471	−03 05 48.69	19.5	T		F51
356P	2017 09 26.40476	00 36 07.069	−03 05 54.04	19.6	T		F51
356P	2017 09 26.41656	00 36 06.668	−03 05 59.45	19.5	T		F51
356P	2017 09 26.42826	00 36 06.268	−03 06 04.76	19.6	T		F51
356P	2017 09 28.36797	00 35 03.18	−03 20 46.7	17.9	T		G96
356P	2017 09 28.37327	00 35 02.96	−03 20 49.4	17.9	T		G96
356P	2017 09 28.37858	00 35 02.79	−03 20 51.8	17.9	T		G96
356P	2017 09 28.39073	00 35 02.38	−03 20 57.1	18.1	T		G96
356P	2017 09 28.41722	00 35 01.70	−03 21 08.0	18.4	T		T08
356P	2017 09 28.41813	00 35 01.65	−03 21 07.7	18.2	T		T08
356P	2017 09 28.42640	00 35 01.35	−03 21 10.5	18.1	T		T08
356P	2017 09 28.43445	00 35 01.11	−03 21 16.1	17.9	T		T08

356P	2017 09 29.47290	00 34 27.044	−03 29 03.59	19.3	T			F51
356P	2017 09 29.48435	00 34 26.642	−03 29 08.76	19.3	T			F51
356P	2017 09 29.49582	00 34 26.248	−03 29 13.89	19.3	T			F51
356P	2017 09 29.50721	00 34 25.853	−03 29 19.02	19.3	T			F51

357P/Hill

357P	2017 07 25.56262	23 09 03.559	−14 18 48.00	23.4	T			F51
357P	2017 07 25.57379	23 09 03.435	−14 18 49.90	23.5	T			F51
357P	2017 07 25.58494	23 09 03.291	−14 18 51.53	23.2	T			F51
357P	2017 07 25.59609	23 09 03.154	−14 18 53.32	23.3	T			F51
357P	2017 08 18.48679	22 59 40.831	−15 43 07.81	21.8	T			F51
357P	2017 08 18.49796	22 59 40.396	−15 43 10.36	22.1	T			F51
357P	2017 08 18.50911	22 59 39.990	−15 43 12.88	22.0	T			F51

358P/PANSTARRS

358P	2001 12 09.22679	04 37 21.88	+17 57 12.3	20.2	N			644
358P	2001 12 09.30274	04 37 17.50	+17 57 27.1	20.8	N			644
358P	2001 12 09.38725	04 37 12.63	+17 57 41.8	20.4	N			644
358P	2017 07 01.370871	22 06 07.329	−23 19 02.07	23.9	T		5	I11
358P	2017 07 01.378667	22 06 07.329	−23 19 04.88	23.7	T		5	I11
358P	2017 07 18.241696	22 03 11.579	−25 15 20.70	23.3	T		5	I11
358P	2017 07 18.245593	22 03 11.475	−25 15 22.56	23.5	T		5	I11
358P	2017 07 18.249486	22 03 11.398	−25 15 24.14	23.4	T		5	I11
358P	2017 07 21.415478	22 01 52.481	−25 39 51.66	22.8	T		5	I11
358P	2017 07 21.419371	22 01 52.372	−25 39 53.58	22.8	T		5	I11
358P	2017 07 21.423285	22 01 52.257	−25 39 55.57	22.4	T		5	I11
358P	2017 07 28.189641	21 58 20.27	−26 33 12.4	24.4	T			I33
358P	2017 07 28.194745	21 58 20.09	−26 33 14.9	23.9	T			I33
358P	2017 07 28.203264	21 58 19.76	−26 33 19.1	24.9	T			I33
358P	2017 07 28.211817	21 58 19.46	−26 33 23.1	24.1	T			I33
358P	2017 07 28.220336	21 58 19.13	−26 33 27.1	24.7	T			I33
358P	2017 08 17.058512	21 43 45.989	−28 57 24.93	22.8	T		5	I11
358P	2017 08 17.066315	21 43 45.566	−28 57 28.28	23.5	T		5	I11

359P/LONEOS

359P	2007 08 21.38769	23 42 13.96	−06 15 29.5	19.1	T			699
359P	2007 08 21.40958	23 42 13.39	−06 15 38.1					699
359P	2007 08 21.43145	23 42 12.97	−06 15 45.7					699
359P	2007 08 21.45335	23 42 12.48	−06 15 53.5					699
359P	2007 09 09.31974	23 33 51.88	−08 21 18.7	18.3	T			699
359P	2007 09 09.34255	23 33 51.14	−08 21 28.2					699
359P	2007 09 09.38790	23 33 49.70	−08 21 47.1					699
359P	2007 09 12.23370	23 32 20.54	−08 41 00.9	18.3	T			703
359P	2007 09 12.24021	23 32 20.25	−08 41 05.2	18.3	T			703
359P	2007 09 12.24670	23 32 20.14	−08 41 07.0	18.6	T			703
359P	2007 09 12.25319	23 32 19.93	−08 41 10.7	18.1	T			703
359P	2007 09 12.27430	23 32 19.22	−08 41 18.7	18.7	T			691
359P	2007 09 12.29536	23 32 18.56	−08 41 27.6	18.9	T			691
359P	2007 09 12.31641	23 32 17.88	−08 41 35.9	18.9	T			691
359P	2007 09 15.23656	23 30 45.30	−09 01 01.0	19.0	T			704
359P	2007 09 15.24834	23 30 45.07	−09 01 05.0	19.3	T			704
359P	2007 09 15.26017	23 30 44.64	−09 01 10.5	19.5	T			704
359P	2007 09 15.27200	23 30 44.27	−09 01 14.7	19.2	T			704
359P	2007 09 15.28394	23 30 43.83	−09 01 20.1	19.5	T			704
359P	2007 09 18.23192	23 29 10.41	−09 20 27.2	19.0	T			704
359P	2007 09 18.25543	23 29 09.71	−09 20 36.6	19.1	T			704
359P	2007 09 18.25812	23 29 09.64	−09 20 36.9	18.4	T			699
359P	2007 09 18.27889	23 29 08.95	−09 20 46.3	19.2	T			704
359P	2007 09 18.28098	23 29 08.87	−09 20 46.4					699
359P	2007 09 18.30384	23 29 08.00	−09 20 56.0					699
359P	2007 09 18.32668	23 29 07.30	−09 21 04.2					699
359P	2007 10 15.18958	23 17 51.50	−11 32 07.6	19.2	T			G96
359P	2007 10 15.19782	23 17 51.36	−11 32 09.0	19.1	T			G96
359P	2007 10 15.20615	23 17 51.25	−11 32 10.8	19.2	T			G96
359P	2007 10 15.21450	23 17 51.10	−11 32 12.3	19.1	T			G96
359P	2007 10 16.23708	23 17 36.42	−11 35 10.2	19.4	T			G96
359P	2007 10 16.24361	23 17 36.31	−11 35 11.0	19.1	T			G96
359P	2007 10 16.25017	23 17 36.24	−11 35 12.0	19.0	T			G96
359P	2007 10 16.25673	23 17 36.13	−11 35 13.1	19.1	T			G96
359P	2017 08 22.48218	00 05 27.952	−04 55 09.29	20.6	T			F51
359P	2017 08 22.49337	00 05 27.749	−04 55 13.44	20.5	T			F51
359P	2017 08 22.50456	00 05 27.547	−04 55 17.31	20.5	T			F51
359P	2017 08 22.51575	00 05 27.357	−04 55 21.23	20.6	T			F51
359P	2017 08 23.12117	00 05 17.30	−04 58 53.7	19.7	T			KW96
359P	2017 08 23.13538	00 05 17.02	−04 58 58.8	19.7	T			KW96
359P	2017 08 23.14960	00 05 16.76	−04 59 03.8	19.7	T			KW96
359P	2017 08 23.431495	00 05 11.963	−05 00 47.85	20.4	T			29 568
359P	2017 08 23.432679	00 05 11.941	−05 00 48.27	20.4	T			29 568
359P	2017 08 23.433868	00 05 11.917	−05 00 48.70	20.6	T			29 568
359P	2017 08 25.95749	00 04 25.07	−05 16 12.2	19.8	T			K A71
359P	2017 08 25.97535	00 04 24.68	−05 16 18.9	19.8	T			K A71
359P	2017 08 28.32342	00 03 36.10	−05 31 02.4					32H06
359P	2017 08 28.32661	00 03 36.03	−05 31 03.8					32H06
359P	2017 08 28.32980	00 03 35.94	−05 31 05.0	19.3	T			32H06
359P	2017 08 31.49964	00 02 23.331	−05 51 29.12	20.4	T			F51
359P	2017 08 31.50040	00 02 23.301	−05 51 29.45	20.4	T			F51
359P	2017 08 31.51323	00 02 22.978	−05 51 34.47	20.5	T			F51
359P	2017 08 31.52532	00 02 22.677	−05 51 39.10	20.5	T			F51
359P	2017 08 31.52608	00 02 22.655	−05 51 39.44	20.5	T			F51
359P	2017 08 31.53818	00 02 22.342	−05 51 44.24	20.6	T			F51
359P	2017 08 31.53894	00 02 22.321	−05 51 44.54	20.6	T			F51
359P	2017 09 13.89233	23 56 08.15	−07 21 02.4	19.5	T			K 215
359P	2017 09 13.89554	23 56 08.04	−07 21 03.5	19.3	T			K 215
359P	2017 09 13.89875	23 56 07.89	−07 21 04.4	19.6	T			K 215
359P	2017 09 14.41597	23 55 51.897	−07 24 30.53	20.1	T			F51
359P	2017 09 14.42795	23 55 51.500	−07 24 35.38	20.1	T			F51
359P	2017 09 14.43988	23 55 51.111	−07 24 40.10	20.1	T			F51
359P	2017 09 14.45180	23 55 50.724	−07 24 44.85	20.1	T			F51
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359P	2017 09 15.43348	23 55 20.100	−07 31 16.46	20.1	T			F51
359P	2017 09 15.44459	23 55 19.734	−07 31 20.92	20.1	T			F51
359P	2017 09 17.38412	23 54 18.705	−07 44 07.68	20.0	T			F51
359P	2017 09 17.39582	23 54 18.319	−07 44 12.30	20.0	T			F51
359P	2017 09 17.40754	23 54 17.925	−07 44 16.96	20.0	T			F51
359P	2017 09 17.41929	23 54 17.536	−07 44 21.59	20.0	T			F51
359P	2017 09 18.43040	23 53 45.404	−07 50 56.93	19.8	T			F51

359P	2017 09 18.44103	23 53 45.048	−07 51 01.37	19.8	T	F51
359P	2017 09 18.46227	23 53 44.337	−07 51 09.26	19.6	T	F51
359P	2017 09 23.38820	23 51 07.752	−08 22 21.98	20.2	T	F51
359P	2017 09 23.39939	23 51 07.378	−08 22 26.20	20.2	T	F51
359P	2017 09 23.41052	23 51 07.006	−08 22 30.25	20.2	T	F51
359P	2017 09 23.42163	23 51 06.637	−08 22 34.38	20.1	T	F51

360P/WISE

360P	2017 09 21.57053	01 22 38.585	+17 42 26.37	20.7	T	F51
360P	2017 09 21.58443	01 22 37.591	+17 42 42.48	20.7	T	F51
360P	2017 09 21.59830	01 22 36.601	+17 42 58.78	20.6	T	F51
360P	2017 09 21.61218	01 22 35.626	+17 43 14.81	20.5	T	F51
360P	2017 09 24.30125	01 19 26.30	+18 35 03.4	19.4	T	G96
360P	2017 09 24.30705	01 19 25.85	+18 35 10.2	18.9	T	G96
360P	2017 09 24.31285	01 19 25.41	+18 35 17.0	19.4	T	G96
360P	2017 09 24.31857	01 19 24.97	+18 35 23.6	19.1	T	G96
360P	2017 10 01.27577	01 10 19.35	+20 41 03.6	19.6	T	703
360P	2017 10 01.27842	01 10 19.10	+20 41 06.9	19.5	T	703
360P	2017 10 01.28112	01 10 18.87	+20 41 11.7	19.5	T	703
360P	2017 10 01.28384	01 10 18.63	+20 41 14.5	19.8	T	703

361P/Spacewatch

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361P	2006 10 11.12625	23 38 55.24	+05 10 30.2			691
361P	2006 10 11.13915	23 38 54.89	+05 10 25.0			691
361P	2006 10 19.13172	23 35 43.17	+04 11 33.5	19.9	T	691
361P	2006 10 19.14468	23 35 42.89	+04 11 27.8	19.9	T	691
361P	2006 10 19.15766	23 35 42.60	+04 11 23.0	20.3	T	691
361P	2006 10 21.13856	23 35 03.45	+03 57 21.6	19.7	T	691
361P	2006 10 21.15149	23 35 03.24	+03 57 16.2	19.8	T	691
361P	2006 10 21.16442	23 35 02.98	+03 57 10.7	19.8	T	691
361P	2006 10 23.13113	23 34 27.92	+03 43 34.3	19.8	T	691
361P	2006 10 23.14407	23 34 27.68	+03 43 29.1	19.8	T	691
361P	2006 10 23.15701	23 34 27.45	+03 43 23.8	19.8	T	691
361P	2006 10 24.12003	23 34 11.72	+03 36 51.5	19.6	T	644
361P	2006 10 24.14036	23 34 11.40	+03 36 43.7	19.5	T	644
361P	2006 10 24.16067	23 34 11.06	+03 36 35.2	19.7	T	644
361P	2007 01 09.13588	00 08 19.71	+01 35 20.6	20.5	T	G96
361P	2007 01 09.14041	00 08 19.96	+01 35 21.7	20.5	T	G96
361P	2007 01 09.14499	00 08 20.32	+01 35 22.8	20.6	T	G96
361P	2007 01 09.14963	00 08 20.58	+01 35 23.3	20.3	T	G96
361P	2017 09 11.50521	23 52 37.910	+08 31 23.15	21.3	T	F51
361P	2017 09 11.51665	23 52 37.534	+08 31 19.09	20.3	T	F51
361P	2017 09 11.52798	23 52 37.153	+08 31 15.07	20.7	T	F51
361P	2017 09 11.53942	23 52 36.791	+08 31 10.92	20.7	T	F51
361P	2017 09 16.41616	23 50 00.977	+08 00 53.77	20.1	T	F51
361P	2017 09 16.42790	23 50 00.577	+08 00 49.17	20.1	T	F51
361P	2017 09 16.43862	23 50 00.206	+08 00 45.06	20.1	T	F51
361P	2017 09 16.44933	23 49 59.842	+08 00 40.92	20.2	T	F51
361P	2017 09 18.30318	23 48 58.89	+07 48 27.1	18.9	T	703
361P	2017 09 18.30852	23 48 58.69	+07 48 25.0	18.7	T	703
361P	2017 09 18.31385	23 48 58.47	+07 48 22.9	19.1	T	703
361P	2017 09 18.31922	23 48 58.36	+07 48 21.0	19.7	T	703
361P	2017 09 22.40609	23 46 42.46	+07 20 17.7	19.0	T	T05
361P	2017 09 22.41661	23 46 42.02	+07 20 10.3	18.4	T	T05
361P	2017 09 22.41706	23 46 42.04	+07 20 12.7	18.9	T	T05
361P	2017 09 22.43069	23 46 41.63	+07 20 05.9	19.2	T	T05
361P	2017 09 24.29124	23 45 39.57	+07 06 51.7	18.9	T	703
361P	2017 09 24.29768	23 45 39.37	+07 06 49.0	19.0	T	703
361P	2017 09 24.30308	23 45 39.19	+07 06 46.9	18.9	T	703
361P	2017 09 24.31131	23 45 38.88	+07 06 42.9	19.2	T	703
361P	2017 09 24.37494	23 45 36.839	+07 06 16.24	19.2	T	F51
361P	2017 09 24.38574	23 45 36.465	+07 06 11.55	19.3	T	F51
361P	2017 09 24.39656	23 45 36.090	+07 06 06.91	19.1	T	F51
361P	2017 09 24.40739	23 45 35.714	+07 06 02.19	19.1	T	F51
361P	2017 09 25.399310	23 45 02.773	+06 58 52.57	19.0	T	29 568
361P	2017 09 25.400499	23 45 02.732	+06 58 52.05	19.0	T	29 568
361P	2017 09 25.401672	23 45 02.691	+06 58 51.53	19.0	T	29 568
361P	2017 09 27.35090	23 43 58.410	+06 44 36.80	19.1	T	F51
361P	2017 09 27.36377	23 43 57.967	+06 44 31.01	19.1	T	F51
361P	2017 09 27.37664	23 43 57.532	+06 44 25.37	19.0	T	F51
361P	2017 09 28.39723	23 43 24.08	+06 36 52.2	18.6	T	T08
361P	2017 09 28.40567	23 43 23.74	+06 36 48.7	18.6	T	T08
361P	2017 09 28.41148	23 43 23.61	+06 36 46.3	18.8	T	T08
361P	2017 09 28.42844	23 43 22.99	+06 36 38.7	18.7	T	T08
361P	2017 09 29.24085	23 42 56.67	+06 30 36.2	18.7	T	703
361P	2017 09 29.25337	23 42 56.37	+06 30 30.6	19.1	T	703
361P	2017 09 29.25955	23 42 56.11	+06 30 28.4	19.1	T	703
361P	2017 09 29.87661	23 42 36.20	+06 25 50.8	19.4	N	K A71
361P	2017 09 29.89122	23 42 35.70	+06 25 44.3	19.1	T	K A71
361P	2017 09 29.90584	23 42 35.20	+06 25 37.9	19.1	T	K A71
361P	2017 09 30.38661	23 42 19.78	+06 22 03.5	19.1	T	T05
361P	2017 09 30.39409	23 42 19.55	+06 21 59.8	18.8	T	T05
361P	2017 09 30.39591	23 42 19.48	+06 21 59.0	18.7	T	T05
361P	2017 09 30.40385	23 42 19.21	+06 21 55.6	18.7	T	T05
361P	2017 09 30.40788	23 42 19.09	+06 21 54.3	18.8	T	T05
361P	2017 09 30.40884	23 42 19.04	+06 21 54.1	18.9	T	T05

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory codes:

304 Las Campanas Observatory. Observer S. S. Sheppard. 6.5-m Magellan-Baade telescope + CCD.

568 Mauna Kea. Observer S. S. Sheppard. 8.2-m Subaru telescope + CCD.

688 Lowell Observatory, Anderson Mesa Station. Observer A. Thirouin. 4-m Discovery Channel Telescope + CCD.

807 Cerro Tololo. Observers S. S. Sheppard, C. Trujillo. 4.0-m CTIO reflector + CCD.

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

G40 Slooh.com Canary Islands Observatory. Observers G. Gašparović, Y. Chen. 0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD.

K95 MASTER-SAAO Observatory, Sutherland. Observers A. Rezaeva, 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.

T05 ATLAS-HKO, Haleakala. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry. Measurers L. Denneau, A. Heinze, J. Tonry. 0.5-m $f/2.0$ Schmidt + CCD.
T08 ATLAS-MLO, Mauna Loa. Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry. 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.
S/2003 J 3	2017 02	24.56974	13 18 52.43	−06 56 30.0	23.6	r	568
S/2003 J 3	2017 02	24.64168	13 18 51.37	−06 56 25.7	23.4	r	568
S/2003 J 3	2017 03	23.24858	13 09 29.43	−06 11 56.6	23.1	r	807
S/2003 J 3	2017 03	23.27130	13 09 28.80	−06 11 53.8	23.0	r	807
S/2003 J 3	2017 03	26.28417	13 08 07.47	−06 05 09.5	23.2	r	807
S/2003 J 3	2017 03	26.32711	13 08 06.27	−06 05 03.6	22.9	r	807
S/2003 J 3	2017 04	23.06484	12 55 18.02	−05 00 58.6	23.0	r	304
S/2003 J 3	2017 04	23.08048	12 55 17.60	−05 00 56.7	23.0	r	304
S/2003 J 3	2017 04	23.13891	12 55 16.09	−05 00 49.2	22.9	r	304
S/2003 J 3	2017 06	18.17915	12 45 50.38	−04 27 34.6			688
S/2003 J 3	2017 06	18.21056	12 45 50.62	−04 27 36.6			688
Jupiter VI	2015 12	23.16320	11 37 09.68	+03 52 16.9	16.1	V	11G40
Jupiter VI	2015 12	23.19802	11 37 10.16	+03 52 13.3	16.2	V	11G40
Jupiter VI	2015 12	23.24669	11 37 10.81	+03 52 08.2	16.0	V	11G40
Jupiter VI	2017 07	15.29214	12 58 38.32	−05 20 10.4	15.7	o	T05
Jupiter VI	2017 07	15.30074	12 58 38.48	−05 20 11.7	15.7	o	T05
Jupiter VI	2017 07	15.30936	12 58 38.65	−05 20 12.9	15.7	o	T05
Jupiter VI	2017 07	15.31735	12 58 38.81	−05 20 14.0	15.7	o	T05
Jupiter VI	2017 07	21.27689	13 00 45.78	−05 35 08.2	15.7	o	T08
Jupiter VI	2017 07	21.28566	13 00 45.99	−05 35 09.5	15.7	o	T08
Jupiter VI	2017 07	21.29494	13 00 46.20	−05 35 11.0	15.7	o	T08
Jupiter VI	2017 07	21.30379	13 00 46.39	−05 35 12.4	15.7	o	T08
Jupiter VI	2017 07	25.25885	13 02 19.96	−05 45 43.5	15.7	o	T08
Jupiter VI	2017 07	25.26614	13 02 20.15	−05 45 45.0	15.7	o	T08
Jupiter VI	2017 07	25.27536	13 02 20.37	−05 45 46.4	15.7	o	T08
Jupiter VI	2017 07	25.28410	13 02 20.56	−05 45 47.6	15.8	o	T08
Jupiter VI	2017 07	27.26672	13 03 10.17	−05 51 14.5	15.8	o	T05
Jupiter VI	2017 07	27.27112	13 03 10.29	−05 51 15.2	15.7	o	T05
Jupiter VI	2017 07	27.27601	13 03 10.40	−05 51 16.1	15.8	o	T05
Jupiter VI	2017 07	27.27798	13 03 10.44	−05 51 16.4	15.8	o	T05
Jupiter VI	2017 07	27.28434	13 03 10.61	−05 51 17.5	15.7	o	T05
Jupiter VI	2017 07	27.28679	13 03 10.68	−05 51 17.7	15.8	o	T05
Jupiter VI	2017 07	27.29370	13 03 10.85	−05 51 19.2	15.8	o	T05
Jupiter VI	2017 07	27.30254	13 03 11.07	−05 51 20.7	15.7	o	T05
Jupiter VI	2017 08	04.25065	13 06 46.95	−06 14 14.0	15.6	o	T05
Jupiter VI	2017 08	04.25309	13 06 47.01	−06 14 14.1	15.7	o	T05
Jupiter VI	2017 08	04.25756	13 06 47.14	−06 14 14.9	15.7	o	T05
Jupiter VI	2017 08	04.26439	13 06 47.33	−06 14 16.1	15.6	o	T05
Jupiter VII	2017 07	17.26963	12 53 55.65	−04 16 18.7	17.3	o	T08
Jupiter VII	2017 07	17.27839	12 53 55.86	−04 16 20.1	17.3	o	T08
Jupiter VII	2017 07	17.28664	12 53 56.05	−04 16 21.2	17.3	o	T08
Jupiter VII	2017 07	17.28906	12 53 56.10	−04 16 21.5	17.3	o	T08
Jupiter VII	2017 07	17.29541	12 53 56.26	−04 16 22.1	17.2	o	T08
Jupiter VII	2017 07	17.29786	12 53 56.33	−04 16 22.5	17.3	o	T08
Jupiter VII	2017 07	17.30630	12 53 56.53	−04 16 23.7	17.2	o	T08
Jupiter VII	2017 07	17.31466	12 53 56.72	−04 16 25.1	17.2	o	T08
Jupiter VII	2017 07	21.26912	12 55 37.28	−04 26 09.0	17.3	o	T08
Jupiter VII	2017 07	21.27786	12 55 37.50	−04 26 10.1	17.4	o	T08
Jupiter VII	2017 07	21.28713	12 55 37.74	−04 26 11.7	17.5	o	T08
Jupiter VII	2017 07	21.29591	12 55 37.98	−04 26 13.0	17.3	o	T08
Jupiter VIII	2017 04	01.90850	13 14 36.36	−05 46 44.4	16.7	R	G36
Jupiter VIII	2017 04	02.04328	13 14 32.85	−05 46 19.5	16.8	R	G36
Jupiter VIII	2017 04	02.17171	13 14 29.52	−05 45 55.6	16.7	R	G36
Jupiter VIII	2017 06	26.85540	12 57 23.56	−03 51 10.3	17.3	R	G36
Jupiter VIII	2017 06	26.88916	12 57 23.98	−03 51 13.2	17.3	R	G36
Jupiter VIII	2017 06	26.90131	12 57 24.13	−03 51 14.2	17.3	R	G36
Jupiter VIII	2017 06	27.87233	12 57 36.62	−03 52 41.6	17.3	R	G36
Jupiter VIII	2017 06	27.90084	12 57 36.97	−03 52 44.2	17.3	R	G36
Jupiter VIII	2017 06	27.92511	12 57 37.28	−03 52 46.5	17.3	R	G36
Jupiter VIII	2017 06	28.88160	12 57 50.19	−03 54 16.6	17.3	R	G36
Jupiter VIII	2017 06	28.89790	12 57 50.41	−03 54 18.0	17.3	R	G36
Jupiter VIII	2017 06	28.91417	12 57 50.63	−03 54 19.7	17.3	R	G36
Jupiter VIII	2017 06	29.87761	12 58 04.21	−03 55 54.2	17.3	R	G36
Jupiter VIII	2017 06	29.88706	12 58 04.32	−03 55 55.1	17.4	R	G36
Jupiter VIII	2017 06	29.90018	12 58 04.53	−03 55 56.6	17.4	R	G36
Jupiter VIII	2017 07	15.27228	13 02 54.36	−04 28 41.3	17.5	o	T05
Jupiter VIII	2017 07	15.28064	13 02 54.54	−04 28 42.6	17.7	o	T05
Jupiter VIII	2017 07	15.28905	13 02 54.74	−04 28 43.7	17.6	o	T05
Jupiter VIII	2017 07	15.29768	13 02 54.94	−04 28 45.3	17.8	o	T05
Jupiter VIII	2017 07	17.28906	13 03 42.05	−04 33 58.3	17.8	o	T08
Jupiter VIII	2017 07	17.29786	13 03 42.29	−04 33 59.8	17.0	o	T08
Jupiter VIII	2017 07	17.30630	13 03 42.45	−04 34 01.3	17.7	o	T08
Jupiter VIII	2017 07	17.31466	13 03 42.63	−04 34 02.7	17.8	o	T08
Jupiter VIII	2017 07	21.26912	13 05 22.38	−04 45 00.8	17.8	o	T08
Jupiter VIII	2017 07	21.27786	13 05 22.58	−04 45 02.4	17.9	o	T08
Jupiter VIII	2017 07	21.28713	13 05 22.82	−04 45 03.6	17.9	o	T08
Jupiter VIII	2017 07	21.29591	13 05 23.09	−04 45 05.8	17.8	o	T08
Jupiter VIII	2017 07	21.30379	13 05 23.26	−04 45 06.8	17.8	o	T08
Jupiter VIII	2017 07	27.27601	13 08 08.73	−05 03 09.0	18.0	o	T05
Jupiter VIII	2017 07	27.28434	13 08 08.95	−05 03 10.4	17.9	o	T05
Jupiter VIII	2017 07	27.29370	13 08 09.20	−05 03 12.1	17.9	o	T05
Jupiter VIII	2017 07	27.30254	13 08 09.48	−05 03 13.9	18.1	o	T05
Jupiter VIII	2017 08	04.25163	13 12 15.49	−05 29 40.3	17.9	o	T05
Jupiter VIII	2017 08	04.25509	13 12 15.68	−05 29 40.8	18.1	o	T05
Jupiter VIII	2017 08	04.26048	13 12 15.84	−05 29 41.9	18.0	o	T05
Jupiter VIII	2017 08	04.26833	13 12 16.06	−05 29 43.0	18.1	o	T05
Jupiter VIII	2017 08	06.24657	13 13 21.56	−05 36 42.5	17.9	o	T08
Jupiter VIII	2017 08	06.25143	13 13 21.70	−05 36 44.2	18.2	o	T08
Jupiter VIII	2017 08	06.25823	13 13 21.89	−05 36 44.4	17.8	o	T08
Jupiter VIII	2017 08	06.26649	13 13 22.18	−05 36 47.0	18.1	o	T08
Jupiter VIII	2017 08	13.78282	13 17 45.31	−06 04 30.2	17.8	R	K95
Jupiter VIII	2017 08	13.78664	13 17 45.41	−06 04 31.9	17.8	R	K95
Jupiter VIII	2017 08	13.78929	13 17 45.56	−06 04 32.1	17.6	R	K95
Jupiter VIII	2017 08	13.81362	13 17 46.40	−06 04 37.1	17.8	R	K95
Jupiter VIII	2017 08	13.81659	13 17 46.60	−06 04 38.3	18.1	R	K95
Jupiter VIII	2017 08	13.82067	13 17 46.67	−06 04 38.0	18.1	R	K95
Jupiter XI	2017 07	15.29214	13 03 01.07	−05 52 34.6	18.5	o	T05
Jupiter XI	2017 07	15.30074	13 03 01.26	−05 52 35.4	18.6	o	T05

Jupiter XI	2017 07 15.30936	13 03 01.41	−05 52 36.4	18.3	o	T05
Jupiter XI	2017 07 15.31735	13 03 01.58	−05 52 37.8	18.5	o	T05
Jupiter XI	2017 07 25.25885	13 06 56.72	−06 19 03.0	18.5	o	T08
Jupiter XI	2017 07 25.26614	13 06 56.88	−06 19 03.2	18.4	o	T08
Jupiter XI	2017 07 25.27536	13 06 57.14	−06 19 05.0	18.3	o	T08
Jupiter XI	2017 07 25.28410	13 06 57.38	−06 19 07.7	18.6	o	T08
Saturn IX	2017 07 26.36335	17 26 11.32	−22 00 08.7	16.7	o	T05
Saturn IX	2017 07 26.37234	17 26 11.20	−22 00 08.6	16.7	o	T05
Saturn IX	2017 07 26.38084	17 26 11.09	−22 00 08.7	16.7	o	T05
Saturn IX	2017 07 26.38979	17 26 10.97	−22 00 08.7	16.8	o	T05
Saturn IX	2017 08 01.33341	17 25 04.74	−22 00 10.4	16.8	o	T08
Saturn IX	2017 08 01.34166	17 25 04.63	−22 00 10.2	16.6	o	T08
Saturn IX	2017 08 01.34993	17 25 04.55	−22 00 10.5	16.8	o	T08
Saturn IX	2017 08 01.35818	17 25 04.46	−22 00 10.0	16.8	o	T08
Saturn IX	2017 08 10.34015	17 23 47.66	−22 00 31.8	16.9	o	T08
Saturn IX	2017 08 10.34797	17 23 47.61	−22 00 31.7	16.9	o	T08
Saturn IX	2017 08 10.35578	17 23 47.55	−22 00 31.9	16.8	o	T08
Saturn IX	2017 08 10.36364	17 23 47.48	−22 00 31.7	17.1	o	T08

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 A. Bernal, J. Nuñez, J. M. Codina, N. Torras

Measurers A. Bernal, J. Nuñez

0.35-m f/11 Schmidt-Cassegrain + CCD

UCAC-4

2014 YC_{15}, 5, 1, 0; (1980), 5, 1, 0; (3122), 50, 8, 25; (6053), 50, 10, 40; (11398), 20, 4, 6; (90075), 26, 5, 10; (138925), 29, 5, 7; (190166), 27, 6, 23; (422699), 5, 1, 0; *[217, 9, 0*, 2017/07/07–2017/09/27]*

012 Uccle

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

2015 BG_{279}, 4, 1, 0; 2015 KJ_{88}, 6, 1, 0; *[10, 2, 0*, 2004/05/27–2008/10/02]*

033 Karl Schwarzschild Observatory, Tautenburg

B. Stecklum, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg, Germany [stecklum@tls-tautenburg.de]

Observers C. Hoegner, B. Stecklum, U. Laux

1.34-m f/3 Schmidt + CCD

URAT-1

1998 SZ_{27}, 6, 1, 0; 2000 SV_{180}, 2, 1, 0; 2002 ET_{11}, 4, 1, 0; 2004 PD_{67}, 3, 1, 0; 2008 SP_{127}, 3, 1, 0; 2011 AR_{23}, 4, 1, 0; 2015 FV_2, 29, 1, 0; 2016 CV_{136}, 4, 1, 0; 2016 CE_{268} *, 3, 1, 0; 2016 QE_{84}, 5, 1, 0; 2017 MY_2, 6, 1, 0; 2017 MO_7, 10, 2, 31; 2017 ML_8, 4, 1, 0; 2017 MW_8, 8, 1, 0; 2017 NW_5, 12, 1, 0; 2017 NS_6, 5, 1, 0; 2017 NT_6, 9, 1, 0; 2017 NU_6, 12, 2, 35; 2017 OD, 8, 1, 0; 2017 OB_1, 7, 1, 0; 2017 OC_1, 4, 1, 0; 2017 OD_1, 6, 1, 0; 2017 OF_1, 3, 1, 0; 2017 OG_1, 8, 2, 1; 2017 OH_1, 2, 1, 0; 2017 OJ_1, 14, 2, 1; 2017 OK_1, 2, 1, 0; 2017 OL_1, 26, 2, 1; 2017 OM_1, 18, 1, 0; 2017 ON_1, 16, 2, 1; 2017 OO_1, 11, 1, 0; 2017 OH_7, 2, 1, 0; 2017 OL_7, 4, 1, 0; 2017 OL_{18}, 6, 1, 0; 2017 OT_{18}, 8, 3, 3; 2017 OU_{18}, 4, 1, 0; 2017 OV_{18}, 7, 1, 0; 2017 OW_{18}, 4, 1, 0; 2017 OB_{19}, 6, 2, 1; 2017 OD_{19}, 3, 1, 0; 2017 OK_{19}, 5, 1, 0; 2017 OQ_{19}, 7, 2, 1; 2017 OR_{19}, 6, 1, 0; 2017 OQ_{67}, 4, 1, 0; 2017 OV_{68}, 3, 1, 0; 2017 PL_{26}, 5, 1, 0; 2017 PY_{26}, 2, 1, 0; 2017 PB_{27}, 3, 1, 0; 2017 PC_{27}, 5, 2, 1; 2017 PY_{30}, 3, 1, 0; 2017 QL_1, 3, 1, 0; 2017 QR_1, 7, 1, 0; 2017 QU_1, 3, 1, 0; 2017 QY_1, 2, 1, 0; 2017 QC_2, 7, 1, 0; 2017 QQ_2, 14, 3, 2; 2017 QR_2, 3, 1, 0; 2017 QC_3, 6, 1, 0; 2017 QD_3, 8, 1, 0; 2017 QG_3, 6, 1, 0; 2017 QL_{16}, 4, 1, 0; 2017 QM_{16}, 10, 2, 1; 2017 QS_{16}, 16, 2, 1; 2017 QT_{16}, 9, 1, 0; 2017 QV_{16}, 7, 1, 0; 2017 QD_{17}, 6, 1, 0; 2017 QJ_{17}, 8, 2, 1; 2017 QK_{17}, 9, 1, 0; 2017 QM_{17}, 6, 1, 0; 2017 QO_{17}, 8, 1, 0; 2017 QP_{17}, 6, 1, 0; 2017 QR_{17}, 5, 1, 0; 2017 QS_{17}, 13, 2, 1; 2017 QT_{17}, 6, 1, 0; 2017 QU_{17}, 13, 2, 1; 2017 QV_{17}, 7, 1, 0; 2017 QW_{17}, 6, 1, 0; 2017 QX_{17}, 5, 1, 0; 2017 QZ_{17}, 16, 3, 2; 2017 QA_{18}, 4, 1, 0; 2017 QB_{18}, 12, 2, 3; 2017 QE_{18}, 12, 2, 4; 2017 QG_{18}, 6, 1, 0; 2017 QH_{18}, 13, 3, 3; 2017 QJ_{18}, 4, 1, 0; 2017 QL_{18}, 7, 1, 0; 2017 QM_{18}, 6, 1, 0; 2017 QM_{32}, 7, 1, 0; 2017 QO_{32}, 8, 1, 0; 2017 QQ_{32}, 6, 1, 0; 2017 QR_{32}, 6, 1, 0; 2017 QS_{32}, 7, 1, 0; 2017 QT_{32}, 3, 1, 0; 2017 QU_{32}, 6, 1, 0; 2017 QW_{32}, 6, 1, 0; 2017 QA_{33}, 4, 1, 0; 2017 QB_{33}, 6, 1, 0; 2017 QC_{33}, 8, 1, 0; 2017 QD_{33}, 5, 1, 0; 2017 QL_{33}, 7, 1, 0; 2017 QO_{33}, 37, 6, 7; (495997), 3, 1, 0; *[743, 102, 1*, 2015/02/22–2017/08/29]*

046 Kleť

J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, South Bohemia, Czech Republic [klet@klet.cz]

Observers M. Tichý, M. Janda

0.57-m f/5.2 reflector + CCD

UCAC-4

(7336), 10, 1, 0; (142561), 9, 1, 0; (190166), 7, 1, 0; (495848), 7, 1, 0; (496018), 8, 1, 0; *[41, 5, 0*, 2017/08/29]*

069 Baldone

I. Eglitis, Institute of Astronomy University of Latvia, Boulevard Rainis 19, Riga, Latvia [ilgmars@latnet.lv]

Observers I. Eglitis, K. Černis

0.80-m f/3.0 Schmidt + CCD

UCAC-2

1996 RA_7, 3, 1, 0; 2002 NZ_{75}, 6, 2, 2; 2002 QV_{153}, 3, 1, 0; 2004 RD_{180}, 3, 1, 0; 2004 VQ_{26}, 6, 2, 2; 2006 BF_{75}, 3, 1, 0; 2006 SX_{263}, 6, 2, 2; 2006 TU_{51}, 6, 2, 2; 2006 TL_{81}, 3, 1, 0; 2006 UF_{214}, 6, 2, 2; 2006 UE_{275}, 3, 1, 0; 2007 ET_{99}, 3, 1, 0; 2008 GN_{12}, 3, 1, 0; 2008 UQ_{151}, 6, 2, 2; 2010 RS_{181}, 3, 1, 0; 2010 TH_{187}, 6, 2, 2; 2010 WM_{15}, 3, 1, 0; 2010 XN_{53}, 6, 2, 1; 2011 BU_{11}, 3, 1, 0; 2011 GV_{23}, 6, 2, 2; 2011 LF_{28}, 3, 1, 0; 2011 PU_5, 6, 2, 1; 2011 QN_{35}, 3, 1, 0; 2011 SB_{216}, 3, 1, 0; 2011 UA_{167}, 3, 1, 0; 2012 RG_{37}, 3, 1, 0; 2012 UD_{58}, 3, 1, 0; 2012 UV_{82}, 9, 3, 3; 2012 UR_{163}, 9, 3, 4; 2012 UD_{164}, 9, 3, 4; 2012 VO_{29}, 3, 1, 0; 2012 XS_{40}, 3, 1, 0; 2013 QC_{92}, 3, 1, 0; 2013 TS_{111}, 6, 2, 2; 2013 VJ_{14}, 6, 2, 2; 2013 WV_{108}, 3, 1, 0; 2013 YA_{42}, 9, 3, 4; 2013 YJ_{111}, 3, 1, 0; 2014 BJ_{39}, 6, 2, 2; 2014 DW_{39}, 6, 2, 2; 2014 DT_{121}, 6, 2, 2; 2014 DB_{127}, 3, 1, 0; 2014 YH_{10}, 6, 2, 2; 2015 BS_{405}, 6, 2, 2; 2015 EH_6, 6, 2, 4; 2015 HK_{173}, 6, 2, 2; 2015 OJ_{80}, 5, 2, 4; 2015 RF_{246}, 3, 1, 0; 2016 LF_{27}, 3, 1, 0; (4650), 3, 1, 0; (5176), 3, 1, 0; (13275), 3, 1, 0; (14245), 3, 1, 0; (14295), 3, 1, 0; (46084), 2, 1, 0; (54923), 2, 1, 0; (59748), 3, 1, 0; (74995), 3, 1, 0; (77590), 3, 1, 0; (89150), 2, 1, 0; (94130), 2, 1, 0; (95118), 2, 1, 0; (96621), 2, 1, 0; (101991), 2, 1, 0; (107274), 3, 1, 0; (112996), 3, 1, 0; (114279), 3, 1, 0; (115019), 3, 1, 0; (120442), 9, 3, 3; (122696), 3, 1, 0; (122796), 3, 1, 0; (125421), 9, 3, 3; (125981), 6, 2, 2; (129119), 6, 2, 2; (129745), 6, 2, 4; (131520), 9, 3, 4; (133452), 6, 2, 2; (134222), 6, 2, 2; (136260), 9, 3, 4; (137420), 6, 2, 2; (138617), 3, 1, 0; (138720), 3, 1, 0; (138831), 6, 2, 1; (139570), 3, 1, 0; (141150), 6, 2, 1; (141989), 3, 1, 0; (142236), 9, 3, 4; (142709), 2, 1, 0; (143417), 6, 2, 1; (143908), 6, 2, 2; (145350), 3, 1, 0; (149439), 3, 1, 0; (158759), 2, 1, 0; (159878), 6, 2, 2; (164513), 2, 1, 0; (166734), 9, 3, 4; (169439), 6, 2, 2; (170116), 9, 3, 3; (171678), 3, 1, 0; (171707), 6, 2, 2; (171733), 6, 2, 1; (171746), 6, 2, 3; (171958), 3, 1, 0; (173651), 3, 1, 0; (173756), 6, 2, 2; (173916), 3, 1, 0; (175324), 3, 1, 0; (175800), 6, 2, 2; (176489), 6, 2, 1; (177082), 6, 2, 2; (177479), 2, 1, 0; (178666), 6, 2, 2; (179396), 6, 2, 2; (180353), 9, 3, 4; (183250), 6, 2, 2; (183683), 6, 2, 2; (186064), 3, 1, 0; (189246), 3, 1, 0; (189273), 3, 1, 0; (189802), 9, 3, 4; (191156), 3, 1, 0; (191819), 3, 1, 0; (192467), 6, 2, 2; (195421), 6, 2, 2; (196550), 3, 1, 0; (196635), 6, 2, 4; (197410), 2, 1, 0; (197878), 3, 1, 0; (199471), 6, 2, 2; (200577), 2, 1, 0; (201566), 3, 1, 0; (207084), 6, 2, 2; (208537), 3, 1, 0; (211462), 3, 1, 0; (211546), 3, 1, 0; (213428), 6, 2, 2; (215734), 3, 1, 0; (217389), 6, 2, 2; (217403), 3, 1, 0; (218951), 6, 2, 2; (224430), 6, 2, 2; (228385), 1, 1, 0; (228603), 9, 3, 4; (229274), 2, 1, 0; (229856), 6, 2, 2; (230343), 6, 2, 2; (230635), 3, 1, 0; (231889), 3, 1, 0; (235154), 3, 1, 0; (237516), 6, 2, 2; (239111), 3, 1, 0; (242483), 6, 2, 2; (243486), 2, 1, 0; (243596), 3, 1, 0; (243752), 9, 3, 4; (245459), 3, 1, 0; (247719), 3, 1, 0; (249019), 9, 3, 3; (249373), 3, 1, 0; (249505), 3, 1, 0; (250965), 3, 1, 0; (252128), 6, 2, 2; (252927), 3, 1, 0; (252956), 3, 1, 0; (255628), 3, 1, 0; (260050), 6, 2, 2; (262045), 6, 2, 2; (263135), 3, 1, 0; (264988), 3, 1, 0; (265043), 3, 1, 0; (265347), 3, 1, 0; (271182), 3, 1, 0; (271183), 6, 2, 2; (271729), 3, 1, 0; (277496), 6, 2, 2; (277718), 3, 1, 0; (279792), 3, 1, 0; (280182), 3, 1, 0; (281094), 6, 2, 2; (281096), 6, 2, 2; (281906), 2, 1, 0; (282031), 3, 1, 0; (282779), 2, 1, 0; (283044), 3, 1, 0; (283504), 9, 3, 4; (286221), 3, 1, 0;

(287957), 3, 1, 0; (288318), 6, 2, 2; (288434), 6, 2, 2; (289871), 6, 2, 2; (289966), 6, 2, 2; (291873), 3, 1, 0; (292114), 6, 2, 4; (292197), 3, 1, 0; (294613), 3, 1, 0; (297945), 3, 1, 0; (299255), 9, 3, 3; (299468), 2, 1, 0; (299768), 6, 2, 2; (300161), 3, 1, 0; (300200), 3, 1, 0; (300866), 6, 2, 2; (306970), 6, 2, 2; (307266), 3, 1, 0; (313252), 3, 1, 0; (313253), 3, 1, 0; (317759), 3, 1, 0; (320443), 6, 2, 2; (323298), 6, 2, 2; (324957), 9, 3, 3; (326846), 6, 2, 2; (329812), 9, 3, 4; (331609), 6, 2, 1; (331794), 6, 2, 2; (332103), 3, 1, 0; (333444), 6, 2, 2; (334767), 9, 3, 4; (334769), 6, 2, 2; (335437), 3, 1, 0; (335471), 3, 1, 0; (335626), 3, 1, 0; (336618), 3, 1, 0; (338205), 3, 1, 0; (339019), 9, 3, 4; (340634), 6, 2, 3; (340659), 6, 2, 2; (342518), 3, 1, 0; (342892), 6, 2, 4; (343088), 3, 1, 0; (345581), 6, 2, 2; (345973), 3, 1, 0; (346043), 9, 3, 4; (347755), 3, 1, 0; (348796), 6, 2, 2; (349047), 3, 1, 0; (349459), 6, 2, 2; (350159), 6, 2, 2; (351948), 3, 1, 0; (351984), 6, 2, 2; (352000), 6, 2, 2; (365604), 3, 1, 0; (366140), 6, 2, 1; (367722), 3, 1, 0; (368891), 3, 1, 0; (371616), 3, 1, 0; (373555), 3, 1, 0; (374342), 3, 1, 0; (376627), 2, 1, 0; (376732), 6, 2, 2; (377344), 6, 2, 2; (380582), 3, 1, 0; (381560), 3, 1, 0; (383873), 3, 1, 0; (384210), 3, 1, 0; (384451), 3, 1, 0; (384457), 3, 1, 0; (384533), 6, 2, 2; (385306), 3, 1, 0; (385427), 6, 2, 2; (385751), 3, 1, 0; (388699), 9, 3, 3; (388776), 6, 2, 2; (388791), 3, 1, 0; (390284), 6, 2, 4; (390394), 9, 3, 4; (392547), 3, 1, 0; (396269), 6, 2, 2; (409198), 3, 1, 0; (413061), 3, 1, 0; (418991), 6, 2, 2; (422886), 6, 2, 2; (424080), 3, 1, 0; (424364), 3, 1, 0; (425905), 6, 2, 2; (426405), 3, 1, 0; (427406), 3, 1, 0; (427637), 3, 1, 0; (427750), 3, 1, 0; (428255), 3, 1, 0; (429548), 9, 3, 3; (430340), 3, 1, 0; (430645), 3, 1, 0; (432585), 9, 3, 3; (433206), 6, 2, 2; (436164), 3, 1, 0; (437145), 9, 3, 3; (437620), 6, 2, 3; (437672), 6, 2, 1; (439816), 6, 2, 2; (449136), 2, 1, 0; (456257), 3, 1, 0; (458645), 3, 1, 0; (461411), 3, 1, 0; (466265), 3, 1, 0; (468558), 6, 2, 2; (469160), 3, 1, 0; (470144), 6, 2, 2; (470489), 2, 1, 0; (471475), 3, 1, 0; (471811), 6, 2, 2; (477092), 6, 2, 1; (477945), 6, 2, 3; (478941), 6, 2, 1; (488767), 3, 1, 0; (490246), 2, 1, 0; (491600), 3, 1, 0; (491616), 3, 1, 0; *[1388, 307, 0∗, 2015/09/19–2017/09/30]*

071 NAO Rozhen

A. Kostov, Institute of Astronomy and NAO, Bulgarian Academy of Sciences, 72 Tsarigradsko Chaussee Blvd., BG-1784 Sofia, Bulgaria [akostov@astro.bas.bg]
Observer V. Radeva
Measurers V. Radeva, A. Kostov
0.50-m $f/3.44$ Schmidt + CCD
USNO-B1.0
(216), 9, 1, 0; (2329), 9, 1, 0; *[18, 2, 0∗, 2017/07/02]*

073 Bucharest

G. Boçsa, Center for Astronomy and Space Sciences, Cutitul de Argint 5, R-75212 Bucharest, Romania [mstavinschi@imar.ro]
Observers A. Sonka, I. L. Boaca, J. A. Mansour, M. Popescu
Measurers A. Sonka, A. Nedelcu, J. A. Mansour, I. L. Boaca, M. Popescu
0.40-m $f/8$ reflector + CCD, 0.50-m $f/15$ reflector + CCD, 0.38-m $f/8$ Ritchey-Chrétien + CCD
PPMXL
2017 RV_1, 8, 1, 0; (3122), 8, 2, 1; (6053), 5, 1, 0; *[21, 3, 0∗, 2017/09/10–2017/09/13]*

089 Nikolaev

N. V. Maigurova, Nikolaev Astronomical Observatory, 1 Observatorna, UA-54030 Mykolaiv, Ukraine [nadija@nao.nikolaev.ua] (5)
Observers M. P. Kaliuzny, A. V. Pomazan, F. I. Bushuev, N. Kulichenko, D. V. Bodryagin, V. F. Kryuchkovskiy, V. Kryuchkovskiy
Measurers D. V. Bodryagin, A. V. Pomazan, N. V. Maigurova, L. E. Bondarchuk
0.5-m $f/6.0$ Maksutov + CCD
UCAC-4, Gaia-DR1
2014 YC_{15}, 57, 6, 11; 2015 KN_{120}, 7, 1, 0; 2017 BS_5, 10, 1, 0; 2017 CS, 10, 1, 0; 2017 GQ_6, 40, 4, 8; 2017 MB_1, 41, 5, 11; 2017 MC_4, 13, 2, 6; 2017 NH, 10, 1, 0; 2017 NS_5, 20, 2, 2; 2017 OP_{68}, 47, 5, 5; 2017 PJ_{26}, 28, 3, 3; 2017 SN_2, 4, 2, 1; (1635), 287, 7, 15; (2102), 10, 1, 0; (4197), 4, 1, 0; (5660), 11, 2, 5; (6053), 30, 3, 42; (66391), 10, 1, 0; (90075), 15, 2, 5; (138925), 10, 1, 0; (142561), 8, 1, 0; (143992), 22, 3, 3; (237805), 2, 1, 0; (326388), 26, 4, 14; (366733), 10, 1, 0; (427643), 5, 1, 0; *[737, 26, 0∗, 2017/04/25–2017/09/28]*

094 Simeïs

E. Bakanas, E.Bakanas, 48 Pyatnitskaya St. 119017, Moscow, Russia [karme@yandex.ru] (5)
A. Novichonok, no details suppied [cometsnov01@gmail.com] (8)
Observers S. Barabanov, S. Kryuchkov, I. Nikolenko, A. Novichonok, Y. Krugly, I. Molotov, V. Voropaev
Measurers E. Bakanas, A. Novichonok
1.0-m $f/1.7$ reflector + CCD, 1.0-m $f/13$ reflector + CCD
PPMXL, UCAC-4
{5} 2017 QA_{34} ∗, 9, 1, 0; *[9, 1, 1∗, 2017/08/26–2017/08/27]*

{8} 2017 SN_{14}, 6, 1, 0; *[6, 1, 0∗, 2017/09/25]*

095 Crimea-Nauchnij

V. Rumyantsev, Crimean Astrophysical Observatory, Nauchnyj, 98409 Ukraine [rum@crao.crimea.ua] (2)
Observers V. Rumyantsev, V. Biryukov
2.6-m $f/4$ reflector + CCD
{2} (496398), 16, 1, 0; *[16, 1, 0∗, 2005/02/05]*

097 Wise Observatory, Mitzpeh Ramon

E. Ofek, Wise Observatory, Tel-Aviv University, IL-69978 Tel-Aviv, Israel [Eran@wise.tau.ac.il]
Observers T. N. Srikanth, M. Safonova
1.0-m $f/7$ reflector + CCD
UCAC-4
2015 DM_{127}, 3, 1, 0; (108224), 4, 2, 1; *[7, 2, 0∗, 1999/03/22–2011/05/31]*

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. Fragai, L. Nesti, M. Carotta, G. Carotta, M. D. Grazia
Measurers G. Fagioli, P. Bacci, L. Tesi, M. Fragai
0.60-m $f/4$ reflector + CCD
Gaia-DR1, PPMXL, URAT-1, UCAC-4, CMC-15, Gaia-DR1
1998 SZ_{27}, 3, 1, 0; 2008 QB_{43}, 2, 1, 0; 2014 EV_3, 2, 1, 0; 2014 OS_{106}, 2, 1, 0; 2014 QX_{432}, 4, 1, 0; 2015 JH_1, 2, 1, 0; 2017 BS_5, 3, 1, 0; 2017 NH, 3, 1, 0; 2017 NJ_2, 3, 1, 0; 2017 NK_2, 3, 1, 0; 2017 NL_2, 3, 1, 0; 2017 NV_5, 7, 2, 2; 2017 NM_6, 7, 2, 2; 2017 NS_6, 5, 1, 0; 2017 NT_6, 3, 1, 0; 2017 NB_7, 3, 1, 0; 2017 OC, 3, 1, 0; 2017 OD, 4, 1, 0; 2017 OD_1, 3, 1, 0; 2017 OF_1, 3, 1, 0; 2017 OG_1, 3, 1, 0; 2017 OH_1, 3, 1, 0; 2017 OJ_1, 3, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OM_1, 3, 1, 0; 2017 ON_1, 3, 1, 0; 2017 OO_1, 3, 1, 0; 2017 OE_7, 3, 1, 0; 2017 OF_7, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OJ_7, 3, 1, 0; 2017 OU_{18}, 4, 1, 0; 2017 OV_{18}, 3, 1, 0; 2017 OE_{68}, 3, 1, 0; 2017 OH_{68}, 3, 1, 0; 2017 PP_{24}, 3, 1, 0; 2017 PU_{24}, 2, 1, 0; 2017 PD_{25}, 4, 1, 0; 2017 PR_{25}, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 PT_{25}, 4, 1, 0; 2017 PU_{25}, 4, 1, 0; 2017 PL_{26}, 4, 1, 0; 2017 PY_{26}, 6, 2, 1; 2017 PZ_{26}, 3, 1, 0; 2017 PA_{27}, 3, 1, 0; 2017 PC_{27}, 3, 1, 0; 2017 QK, 3, 1, 0; 2017 QQ, 3, 1, 0; 2017 QR_1, 4, 1, 0; 2017 QW_1, 3, 1, 0; 2017 QX_1, 3, 1, 0; 2017 QE_2, 3, 1, 0; 2017 QN_2, 4, 1, 0; 2017 QP_2, 3, 1, 0; 2017 QF_3, 3, 1, 0; 2017 QR_{16}, 3, 1, 0; 2017 QS_{16}, 4, 1, 0; 2017 QQ_{17}, 4, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; 2017 QU_{17}, 3, 1, 0; 2017 QV_{17}, 3, 1, 0; 2017 QW_{17}, 3, 1, 0; 2017 QE_{18}, 3, 1, 0; 2017 QG_{18}, 3, 1, 0; 2017 QH_{18}, 3, 1, 0; 2017 QM_{18}, 2, 1, 0; 2017 QU_{32}, 4, 1, 0; 2017 QV_{32}, 3, 1, 0; 2017 QN_{33}, 3, 1, 0; 2017 QO_{33}, 3, 1, 0; 2017 QP_{33}, 3, 1, 0; 2017 QV_{34}, 3, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 QA_{35}, 3, 1, 0; 2017 QR_{35}, 3, 1, 0; 2017 RB, 3, 1, 0; 2017 RC, 3, 1, 0; 2017 RU_1, 3, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RW_1, 3, 1, 0; 2017 RX_1, 7, 2, 9; 2017 RO_2, 3, 1, 0; 2017 RQ_2, 4, 1, 0; 2017 SP_{10}, 3, 1, 0; 2017 SQ_{10}, 4, 1, 0; 2017 SS_{10}, 3, 1, 0; 2017 ST_{10}, 4, 1, 0; 2017 SD_{12}, 3, 1, 0; 2017 SE_{12}, 2, 1, 0; 2017 SU_{16}, 3, 1, 0; 2017 SN_{17}, 3, 1, 0; 2017 SY_{19}, 3, 1, 0; 2017 SB_{20}, 3, 1, 0; 2017 SG_{20}, 4, 1, 0; 2017 SH_{20}, 3, 1, 0; 2017 SK_{20}, 3, 1, 0; (1255), 2, 1, 0; (1477), 3, 1, 0; (1705), 2, 1, 0; (2315), 2, 1, 0; (5147), 3, 1, 0; (7282), 2, 1, 0; (7653), 2, 1, 0; (8108), 1, 1, 0; (8196), 2, 1, 0; (8213), 2, 1, 0; (9348), 3, 1, 0; (10618), 2, 1, 0; (12924), 2, 1, 0; (14139), 2, 1, 0; (15086), 2, 1, 0; (15696), 2, 1, 0; (16917), 3, 1, 0; (17749), 2, 1, 0; (19068), 3, 1, 0; (24278), 2, 1, 0; (25401), 2, 1, 0; (26456), 2, 1, 0; (26702), 3, 1, 0; (27893), 3, 1, 0; (29313), 2, 1, 0; (33254), 2, 1, 0;

(34546), 2, 1, 0; (35516), 2, 1, 0; (38768), 2, 1, 0; (40194), 2, 1, 0; (47891), 2, 1, 0; (48217), 2, 1, 0; (50776), 3, 1, 0; (51118), 2, 1, 0; (51328), 2, 1, 0; (53071), 2, 1, 0; (57098), 3, 1, 0; (61304), 2, 1, 0; (62852), 3, 1, 0; (63383), 1, 1, 0; (63596), 2, 1, 0; (64230), 2, 1, 0; (64509), 2, 1, 0; (64845), 2, 1, 0; (66523), 2, 1, 0; (71481), 2, 1, 0; (80857), 3, 1, 0; (81906), 2, 1, 0; (81909), 2, 1, 0; (82697), 2, 1, 0; (83010), 2, 1, 0; (85674), 2, 1, 0; (85693), 2, 1, 0; (85963), 2, 1, 0; (92121), 2, 1, 0; (92480), 2, 1, 0; (94345), 2, 1, 0; (97086), 2, 1, 0; (98876), 2, 1, 0; (99518), 2, 1, 0; (99860), 1, 1, 0; (104145), 2, 1, 0; (105920), 2, 1, 0; (110080), 1, 1, 0; (110579), 2, 1, 0; (115176), 2, 1, 0; (120195), 2, 1, 0; (123902), 2, 1, 0; (126430), 2, 1, 0; (126868), 2, 1, 0; (130820), 2, 1, 0; (132233), 2, 1, 0; (132347), 2, 1, 0; (135569), 2, 1, 0; (137138), 2, 1, 0; (153379), 2, 1, 0; (214342), 2, 1, 0; (218313), 2, 1, 0; (244231), 2, 1, 0; (257738), 2, 1, 0; (258979), 1, 1, 0; (286653), 2, 1, 0; (351787), 1, 1, 0; (363066), 1, 1, 0; (398282), 2, 1, 0; (457175), 9, 4, 21; *[503, 184, 0∗, 2017/01/19–2017/09/30]*

106 Črni Vrh

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

2002 RG_{295}, 4, 1, 0; 2003 QS_1, 4, 1, 0; 2004 RO_9, 4, 1, 0; 2004 RJ_{185}, 4, 1, 0; 2006 BD_{222}, 4, 1, 0; 2006 UO_{179}, 4, 1, 0; 2008 SF_{307}, 3, 1, 0; 2011 DY_{52}, 4, 1, 0; 2012 PD_6, 4, 1, 0; 2012 PD_{17}, 4, 1, 0; 2013 PJ_{13}, 4, 1, 0; 2013 QD_{12}, 4, 1, 0; 2013 TS_{53}, 4, 1, 0; 2014 WL_{412}, 4, 1, 0; 2015 HA_{11}, 2, 1, 0; 2015 OG_{21}, 4, 1, 0; 2016 AY_{53}, 4, 1, 0; 2016 GN_{108}, 4, 1, 0; 2016 GG_{127}, 4, 1, 0; 2016 PM_{77}, 4, 1, 0; 2017 NW_5, 2, 1, 0; 2017 OC, 2, 1, 0; 2017 OE, 4, 1, 0; 2017 OW_{48}, 4, 1, 0; 2017 OH_{68}, 3, 1, 0; 2017 QO_{25}, 4, 1, 0; 2017 RX_1, 3, 1, 0; 2017 RU_{13}, 4, 1, 0; (3245), 4, 1, 0; (4187), 4, 1, 0; (5224), 4, 1, 0; (7452), 3, 1, 0; (14990), 4, 1, 0; (17026), 4, 1, 0; (22742), 4, 1, 0; (24710), 4, 1, 0; (33007), 4, 1, 0; (34135), 4, 1, 0; (36660), 4, 1, 0; (41762), 4, 1, 0; (44052), 4, 1, 0; (58768), 4, 1, 0; (59815), 4, 1, 0; (70580), 4, 1, 0; (76346), 4, 1, 0; (77540), 4, 1, 0; (77677), 4, 1, 0; (79129), 4, 1, 0; (84432), 4, 1, 0; (89721), 4, 1, 0; (91077), 4, 1, 0; (93286), 4, 1, 0; (95136), 4, 1, 0; (99078), 4, 1, 0; (101951), 4, 1, 0; (105697), 4, 1, 0; (112116), 4, 1, 0; (118861), 4, 1, 0; (122203), 4, 1, 0; (125776), 4, 1, 0; (131267), 4, 1, 0; (136664), 4, 1, 0; (137384), 4, 1, 0; (140979), 4, 1, 0; (143513), 4, 1, 0; (143957), 4, 1, 0; (145310), 4, 1, 0; (151046), 4, 1, 0; (151843), 4, 1, 0; (152664), 4, 1, 0; (153161), 4, 1, 0; (154884), 4, 1, 0; (168849), 4, 1, 0; (170069), 4, 1, 0; (172052), 4, 1, 0; (173741), 4, 1, 0; (176021), 4, 1, 0; (180421), 4, 1, 0; (189760), 4, 1, 0; (191829), 4, 1, 0; (192050), 4, 1, 0; (193520), 4, 1, 0; (204939), 4, 1, 0; (208622), 4, 1, 0; (209012), 4, 1, 0; (217863), 4, 1, 0; (225878), 3, 1, 0; (227461), 4, 1, 0; (231626), 4, 1, 0; (236907), 4, 1, 0; (241244), 4, 1, 0; (249428), 4, 1, 0; (254569), 4, 1, 0; (260670), 4, 1, 0; (270543), 4, 1, 0; (271848), 4, 1, 0; (272750), 4, 1, 0; (274311), 4, 1, 0; (274333), 4, 1, 0; (284344), 4, 1, 0; (285630), 4, 1, 0; (286010), 4, 1, 0; (288524), 4, 1, 0; (329297), 4, 1, 0; (332361), 4, 1, 0; (334901), 4, 1, 0; (336311), 4, 1, 0; (337756), 4, 1, 0; (345670), 4, 1, 0; (346851), 4, 1, 0; (368337), 4, 1, 0; (377748), 4, 1, 0; (382614), 4, 1, 0; (384116), 4, 1, 0; (438401), 4, 1, 0; *[449, 115, 0∗, 2003/08/26–2017/09/29]*

107 Cavezzo

M. Facchini, via C. Battisti 48, I-41032 Carpi (MO), Italy [m.facchini@iol.it]
Observers R. Bonomi, M. Facchini, P. Negrelli, D. Caiumi, D. Losi
0.4-m $f/5.5$ reflector + CCD
UCAC-4, Gaia-DR1, USNO-B1.0

2008 MH_1, 4, 1, 0; 2014 SR_{339}, 4, 1, 0; 2014 YC_{15}, 8, 2, 39; 2017 BM_{31}, 7, 2, 3; 2017 MB_1, 4, 1, 0; 2017 MC_4, 3, 1, 0; 2017 MZ_4, 3, 1, 0; 2017 NH, 4, 1, 0; 2017 NM_6, 9, 3, 3; 2017 OD, 4, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OT_{18}, 2, 1, 0; 2017 OP_{68}, 4, 1, 0; 2017 PE_{25}, 2, 1, 0; 2017 PS_{25}, 6, 2, 2; 2017 PT_{25}, 4, 1, 0; 2017 PU_{25}, 3, 1, 0; 2017 PV_{25}, 4, 1, 0; 2017 PJ_{26}, 4, 1, 0; 2017 PL_{26}, 3, 1, 0; 2017 PY_{26}, 3, 1, 0; 2017 QS_{16}, 2, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; (6053), 4, 1, 0; (9036), 1, 1, 0; (17846), 2, 1, 0; (22494), 3, 1, 0; (25715), 3, 1, 0; (27451), 3, 1, 0; (42344), 3, 1, 0; (67846), 3, 1, 0; (69372), 3, 1, 0; (74525), 2, 1, 0; (88796), 3, 1, 0; (115249), 2, 1, 0; (122281), 3, 1, 0; (127257), 3, 1, 0; (134331), 3, 1, 0; (138736), 3, 1, 0; (138925), 4, 1, 0; (142561), 8, 2, 1; (190166), 4, 1, 0; (205534), 2, 1, 0; (217229), 3, 1, 0; (294739), 3, 1, 0; (334481), 3, 1, 0; (457175), 5, 2, 9; (480858), 4, 1, 0; (496005), 4, 1, 0; *[183, 51, 0∗, 2017/07/07–2017/09/21]*

108 Montelupo

M. Tombelli, Via Bozzeto 26, I-50056 Montelupo (Fi), Italy [iau@arcetri.astro.it]
Observers M. Tombelli, A. Boattini, S. Foglia, S. Bartolini, E. Masotti, M. Lomba
Measurers M. Tombelli, A. Boattini, S. Foglia, M. Lombardo
0.30-m $f/2.9$ Schmidt-Cassegrain + CCD
UCAC-3

2014 YC_{15}, 4, 1, 0; (509), 3, 1, 0; (877), 3, 1, 0; (5143), 4, 1, 0; (6053), 10, 2, 7; (7198), 6, 2, 3; (7336), 3, 1, 0; (10203), 3, 1, 0; (14061), 2, 1, 0; (14204), 4, 2, 3; (16700), 2, 1, 0; (17019), 7, 2, 3; (17738), 2, 1, 0; (34260), 3, 1, 0; (41785), 2, 1, 0; (57604), 3, 1, 0; (62110), 2, 1, 0; (90075), 6, 1, 0; (94015), 2, 1, 0; (96631), 3, 1, 0; (142561), 3, 1, 0; (190166), 15, 2, 6; (337567), 2, 1, 0; (422699), 4, 1, 0; (496018), 4, 1, 0; *[102, 25, 0∗, 2017/08/15–2017/08/22]*

113 Volkssternwarte Drebach, Schoenbrunn

G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany [g.l@kleinplanetenseite.de]
Observers G. Lehmann, K. Lehmann
Measurers M. Micheli, G. Lehmann, K. Lehmann
0.5-m $f/4.6$ reflector + CCD
Gaia-DR1, UCAC-4

2009 WB_{142}, 2, 1, 0; 2012 TC_4, 3, 1, 0; 2017 RX_1, 5, 1, 0; 2017 SS_{10}, 4, 1, 0; 2017 SD_{12}, 4, 1, 0; *[18, 5, 0∗, 2012/10/11–2017/09/22]*

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

2005 UD_{169}, 5, 1, 0; 2014 WE_{463}, 3, 1, 0; 2015 AX_{249}, 16, 2, 4; 2015 BQ_{116}, 4, 1, 0; 2015 EK_{13}, 4, 1, 0; 2016 QT_{85}, 4, 1, 0; 2017 HL_{10}, 5, 1, 0; 2017 OT_{52}, 5, 1, 0; *[46, 8, 0∗, 2008/01/10–2012/07/23]*

118 Modra

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

2006 BN_{207}, 2, 1, 0; 2006 QK_{67}, 2, 1, 0; 2006 UZ_{20}, 3, 1, 0; 2006 VZ_{46}, 2, 1, 0; 2009 BQ_{71}, 3, 1, 0; 2012 QG_6, 2, 1, 0; 2013 LY_{22}, 5, 2, 1; 2013 TK_{84}, 2, 1, 0; 2013 UU, 2, 1, 0; 2014 AW_{29}, 2, 1, 0; 2014 UC_{172}, 2, 1, 0; 2015 BW_{256}, 2, 1, 0; 2016 CU_{265}, 2, 1, 0; 2017 BM_{31}, 19, 1, 0; 2017 EX_{11}, 2, 1, 0; 2017 MF_8, 9, 3, 4; 2017 OG_1, 2, 1, 0; 2017 OY_1 ∗, 6, 2, 2; 2017 OF_7, 3, 1, 0; 2017 PN_{12}, 6, 2, 2; 2017 RK_1, 4, 1, 0; (271), 9, 3, 3; (318), 6, 2, 7; (809), 2, 1, 0; (1904), 3, 1, 0; (1933), 19, 7, 16; (2331), 3, 1, 0; (2508), 4, 2, 1; (2653), 22, 8, 39; (3481), 9, 3, 4; (4147), 20, 8, 27; (4215), 6, 2, 1; (4228), 21, 7, 33; (4975), 3, 1, 0; (5240), 2, 1, 0; (5599), 13, 5, 11; (7800), 14, 5, 9; (10651), 3, 1, 0; (13956), 17, 6, 16; (14188), 7, 2, 1; (15918), 6, 2, 2; (17018), 16, 6, 8; (17779), 2, 1, 0; (19386), 6, 2, 1; (20390), 19, 8, 16; (21267), 21, 8, 16; (23527), 3, 1, 0; (24200), 18, 7, 16; (30872), 3, 1, 0; (32341), 8, 3, 8; (32373), 3, 1, 0; (35062), 2, 1, 0; (37128), 3, 1, 0; (39956), 3, 1, 0; (41120), 2, 1, 0; (42772), 2, 1, 0; (47965), 3, 1, 0; (52120), 3, 1, 0; (55354), 2, 1, 0; (56174), 5, 2, 1; (56443), 2, 1, 0; (57436), 2, 1, 0; (58773), 2, 1, 0; (59678), 8, 3, 3; (61758), 2, 1, 0; (64511), 2, 1, 0; (67553), 3, 1, 0; (67930), 3, 1, 0; (68408), 3, 1, 0; (74388), 10, 4, 5; (75994), 2, 1, 0; (83805), 3, 1, 0; (94069), 2, 1, 0; (99837), 6, 2, 1; (104167), 2, 1, 0; (105944), 5, 2, 1; (108144), 12, 5, 10; (109280), 10, 3, 2; (114014), 3, 1, 0; (115239), 3, 1, 0; (117261), 3, 1, 0; (118354), 2, 1, 0; (120488), 2, 1, 0; (122281), 2, 1, 0; (124095), 3, 1, 0; (128129), 2, 1, 0; (132210), 3, 1, 0; (133910), 3, 1, 0; (134228), 3, 1, 0; (134938), 10, 4, 16; (135492), 3, 1, 0; (136361), 4, 2, 4; (137096), 2, 1, 0; (137633), 13, 4, 5; (139105), 2, 1, 0; (139174), 2, 1, 0; (139882), 3, 1, 0; (140051), 6, 3, 4; (140185), 10, 4, 4; (140859), 4, 2, 3; (142759), 6, 3, 4; (147479), 2, 1, 0; (162084), 5, 2, 12; (165797), 3, 1, 0; (166773), 2, 1, 0; (171279), 8, 3, 4; (172603), 9, 3, 3; (175867), 5, 2, 8; (182135), 2, 1, 0; (189456), 5, 2, 1; (190091), 2, 1, 0; (191801), 2, 1, 0; (192770), 6, 2, 1; (198344), 2, 1, 0; (206131), 2, 1, 0; (212978), 3, 1, 0; (216075), 3, 1, 0; (219351), 2, 1, 0; (219586), 3, 1, 0; (221678), 3, 1, 0; (221874), 3, 1, 0; (223271), 4, 2, 1; (223370), 3, 1, 0; (223928), 2, 1, 0; (227382), 3, 1, 0; (228547), 4, 2, 6; (231517), 6, 3, 3; (234372), 2, 1, 0; (236082), 2, 1, 0; (238684), 5, 2, 1; (245883), 6, 2, 2; (247077), 3, 1, 0; (253226), 6, 2, 1; (255798), 2, 1, 0; (258819), 4, 2, 1; (262349), 3, 1, 0; (262893), 5, 2, 1; (269089), 5, 2, 2; (273683), 2, 1, 0; (276197), 2, 1, 0; (277599), 5, 2, 1; (282337), 7, 3, 13; (282580), 2, 1, 0; (283032), 2, 1, 0; (289805), 4, 2, 1; (292532), 4, 2, 1; (292613), 2, 1, 0; (293451), 6, 3, 5; (298333), 5, 2, 1; (311016), 2, 1, 0; (312781), 6, 3, 4; (321205), 3, 1, 0; (323673), 2, 1, 0; (325568), 4, 2, 1; (330084), 2, 1, 0; (332364), 7, 3, 9; (332957), 6, 2, 1; (338210), 3, 1, 0; (339018), 2, 1, 0; (339552), 2, 1, 0; (340711), 2, 1, 0; (345413), 2, 1, 0; (348834), 2, 1, 0; (353985), 11, 5, 5; (359395), 2, 1, 0; (365134), 3, 1, 0; (365532), 5, 2, 1; (367427), 4, 2, 1; (368698), 2, 1, 0; (374587), 2, 1, 0; (379279), 2, 1, 0; (381443), 2, 1, 0; (381526), 5, 2, 2; (413416), 7, 3, 5; (414142), 2, 1, 0; (424328), 2, 1, 0;

(430056), 4, 2, 3; (454419), 2, 1, 0; (457175), 2, 1, 0; (467520), 3, 1, 0; (472666), 2, 1, 0; *[853, 181, 1∗, 2017/03/25–2017/09/30]*

119 Abastuman
R. I. Kiladze, Abastumani Observatory, 383762, Abastumani, Georgia
Observers R. Y. Inasaridze, V. Ayvazian, T. Mdzinarishvili
Measurers Y. N. Krugly, I. E. Molotov
0.7-m $f/3$ Maksutov + CCD
UCAC-4
2017 RW_{16} ∗, 14, 2, 1; *[14, 1, 1∗, 2017/09/10–2017/09/11]*

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, UCAC-4
2004 TQ_{13}, 6, 2, 30; 2007 TL_{447}, 3, 1, 0; 2016 AA_9, 3, 1, 0; 2017 OP_{68}, 3, 1, 0; 2017 QL_{35}, 3, 1, 0; 2017 RU_1, 3, 1, 0; (31970), 3, 1, 0; (135152), 3, 1, 0; (141345), 3, 1, 0; (142464), 3, 1, 0; (154798), 3, 1, 0; (165838), 3, 1, 0; (203015), 3, 1, 0; (219583), 3, 1, 0; (230085), 3, 1, 0; (235782), 3, 1, 0; (265962), 3, 1, 0; (338176), 6, 2, 3; (367525), 3, 1, 0; (374049), 3, 1, 0; (441825), 3, 1, 0; (496018), 3, 1, 0; *[72, 22, 0∗, 2009/01/29–2017/09/23]*

130 Lumezzane
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy
[marco.bs@tiscali.it]
Observers A. Coffano, W. Marinello, M. Micheli, G. Pizzetti, A. Soffiantini
0.40-m $f/6.4$ reflector + CCD
Gaia-DR1
(6063), 4, 1, 0; (52750), 2, 1, 0; (66269), 4, 1, 0; (441987), 2, 1, 0; (495331), 2, 1, 0; *[14, 5, 0∗, 2017/07/03]*

151 Eschenberg Observatory, Winterthur
M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland
[griesser@spectraweb.ch]
0.60-m $f/3.8$ astrograph + CCD
UCAC-4
1999 XL_{136}, 3, 1, 0; 2004 RE_{84}, 3, 1, 0; 2012 FH_{38}, 3, 1, 0; 2014 QL_{433}, 3, 1, 0; 2014 SR_{339}, 7, 1, 0; 2014 YC_{15}, 5, 1, 0; 2017 FE_1, 7, 2, 6; 2017 MB_1, 11, 1, 0; 2017 NS_5, 8, 1, 0; 2017 QB, 2, 1, 0; 2017 QW_{17}, 3, 1, 0; 2017 QV_{34}, 6, 1, 0; 2017 RV_1, 7, 1, 0; (1646), 3, 1, 0; (3122), 12, 1, 0; (3531), 3, 1, 0; (11547), 3, 1, 0; (20826), 2, 1, 0; (36311), 2, 1, 0; (38078), 3, 1, 0; (54560), 3, 1, 0; (58625), 3, 1, 0; (67796), 3, 1, 0; (81703), 3, 1, 0; (136118), 3, 1, 0; (150920), 2, 1, 0; (196760), 2, 1, 0; (228887), 3, 1, 0; (257636), 2, 1, 0; (273273), 3, 1, 0; (294051), 2, 1, 0; *[125, 31, 0∗, 2017/07/17–2017/09/20]*

152 Moletai Astronomical Observatory
K. Černis, Institute
of Theoretical Physics and Astronomy, Vilnius University, Sauletekio al. 3, Vilnius, LT-10257, Lithuania [Kazimieras.Černis@tfai.vu.lt]
0.35-m $f/3.5$ reflector + CCD
2014 WK_{382}, 6, 1, 0; 2015 BT_{442}, 10, 2, 2; 2017 OV_{42}, 2, 1, 0; 2017 OG_{62}, 5, 1, 0; (2888), 5, 1, 0; (3083), 5, 1, 0; (4697), 5, 1, 0; (8806), 4, 1, 0; (9121), 4, 1, 0; (11707), 5, 1, 0; (11924), 3, 1, 0; (13635), 5, 1, 0; (16120), 4, 1, 0; (23560), 5, 1, 0; (25929), 4, 1, 0; (26203), 5, 1, 0; (26513), 7, 1, 0; (37304), 4, 1, 0; (40322), 5, 1, 0; (40916), 5, 1, 0; (44789), 5, 1, 0; (48517), 4, 1, 0; (48521), 5, 1, 0; (52126), 5, 1, 0; (53271), 3, 1, 0; (55853), 5, 1, 0; (57796), 4, 1, 0; (57956), 4, 1, 0; (62565), 4, 1, 0; (62837), 5, 1, 0; (65594), 5, 1, 0; (68958), 5, 1, 0; (72659), 3, 1, 0; (80135), 4, 1, 0; (81028), 4, 1, 0; (89841), 4, 1, 0; (91770), 5, 1, 0; (96555), 4, 1, 0; (100673), 5, 1, 0; (101305), 5, 1, 0; (108880), 4, 1, 0; (110137), 5, 1, 0; (110537), 5, 1, 0; (110539), 2, 1, 0; (114443), 4, 1, 0; (116610), 4, 1, 0; (116901), 5, 1, 0; (119968), 3, 1, 0; (129933), 5, 1, 0; (138229), 2, 1, 0; (142576), 5, 1, 0; (144120), 4, 1, 0; (145893), 4, 1, 0; (148289), 3, 1, 0; (148855), 4, 1, 0; (153154), 5, 1, 0; (153301), 4, 1, 0; (153790), 5, 1, 0; (157679), 4, 1, 0; (161938), 3, 1, 0; (181800), 5, 1, 0; (183239), 5, 1, 0; (186112), 4, 1, 0; (226773), 6, 1, 0; (233822), 4, 1, 0; (233961), 3, 1, 0; (234356), 5, 1, 0; *[298, 67, 0∗, 2004/10/13–2015/03/16]*

157 Frasso Sabino
R. Haver, Via dei Giornalisti 64, I-00135 Rome, Italy [me3540@mclink.it]
Observers R. Haver, L. M. Piazzolla, R. Gorelli, C. Chiodi
0.37-m $f/6.70$ Cassegrain + CCD
UCAC-4
2003 QW_{30}, 3, 1, 0; 2010 MW, 5, 2, 28; 2014 RE_{12}, 2, 1, 0; 2016 ND_{21}, 11, 2, 20; 2017 MB_1, 5, 1, 0; 2017 MZ_4, 8, 2, 16; 2017 NS_5, 4, 1, 0; 2017 OH_7, 4, 1, 0; 2017 OT_{18}, 6, 2, 7; 2017 PR_{24}, 13, 3, 11; 2017 PT_{25}, 6, 2, 7; 2017 PX_{25}, 3, 1, 0; 2017 QB, 6, 2, 7; 2017 QS_{17}, 3, 1, 0; (9100), 5, 1, 0; (40682), 4, 1, 0; (66248), 5, 1, 0; (68928), 2, 1, 0; (80444), 4, 1, 0; (92999), 2, 1, 0; (93977), 2, 1, 0; (127362), 3, 1, 0; (128390), 2, 1, 0; (136087), 2, 1, 0; (139135), 2, 1, 0; (139284), 3, 1, 0; (155417), 2, 1, 0; (178096), 3, 1, 0; (183909), 2, 1, 0; (190166), 6, 1, 0; (192239), 2, 1, 0; (216303), 3, 1, 0; (222726), 3, 1, 0; (264928), 3, 1, 0; (319553), 6, 1, 0; (332608), 3, 1, 0; (368399), 6, 1, 0; (373486), 3, 1, 0; (419719), 2, 1, 0; (457175), 7, 1, 0; (470310), 2, 1, 0; *[168, 41, 0∗, 2017/07/17–2017/08/26]*

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
1993 RA, 3, 1, 0; 2004 RE_{84}, 3, 1, 0; 2004 SS, 6, 2, 3; 2004 TQ_{13}, 6, 2, 1; 2007 MB_4, 4, 1, 0; 2008 MH_1, 45, 15, 75; 2011 ED_{78}, 15, 5, 14; 2014 SR_{339}, 6, 2, 3; 2014 YC_{15}, 36, 12, 49; 2015 KN_{120}, 3, 1, 0; 2016 AA_9, 6, 2, 1; 2016 ND_{21}, 51, 17, 86; 2017 BS_5, 3, 1, 0; 2017 BM_{31}, 20, 7, 15; 2017 CS, 27, 9, 16; 2017 FJ_{90}, 3, 1, 0; 2017 GQ_6, 9, 3, 8; 2017 MB_1, 30, 9, 16; 2017 MY_3, 3, 1, 0; 2017 MC_4, 6, 2, 4; 2017 MV_7, 6, 2, 1; 2017 MR_8, 3, 1, 0; 2017 NH, 18, 3, 6; 2017 NS_5, 8, 2, 1; 2017 OD, 5, 1, 0; 2017 OD_1, 3, 1, 0; 2017 OG_1, 14, 4, 8; 2017 OL_1, 11, 3, 11; 2017 OE_7, 4, 1, 0; 2017 OF_7, 6, 2, 6; 2017 OH_7, 3, 1, 0; 2017 OK_7, 3, 1, 0; 2017 OT_{18}, 6, 2, 4; 2017 OR_{19}, 4, 1, 0; 2017 OP_{68}, 9, 3, 5; 2017 PR_{24}, 19, 6, 17; 2017 PD_{25}, 3, 1, 0; 2017 PR_{25}, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 PT_{25}, 8, 2, 7; 2017 PV_{25}, 11, 4, 4; 2017 PJ_{26}, 8, 3, 8; 2017 PL_{26}, 13, 3, 7; 2017 PY_{26}, 5, 1, 0; 2017 QB, 3, 1, 0; 2017 QR_{35}, 7, 1, 0; 2017 RV_1, 9, 3, 4; 2017 RX_1, 4, 1, 0; 2017 SN_2, 6, 2, 3; 2017 SS_{10}, 5, 1, 0; 2017 SD_{12}, 5, 1, 0; 2017 ST_{14}, 5, 1, 0; 2017 SR_{16}, 5, 1, 0; 2017 SP_{17}, 5, 1, 0; (1019), 11, 2, 2; (1109), 3, 1, 0; (1575), 3, 1, 0; (1980), 30, 10, 58; (3122), 7, 1, 0; (3288), 21, 7, 58; (3752), 3, 1, 0; (3753), 8, 3, 14; (4197), 9, 3, 14; (5143), 15, 5, 58; (5660), 15, 5, 11; (6053), 14, 5, 5; (6063), 6, 2, 2; (7336), 12, 4, 44; (7604), 15, 5, 11; (7977), 14, 5, 50; (8037), 3, 1, 0; (8567), 6, 2, 83; (11398), 39, 13, 35; (12538), 15, 5, 13; (20460), 27, 9, 46; (27222), 3, 1, 0; (53319), 29, 10, 83; (55408), 3, 1, 0; (65679), 3, 1, 0; (66146), 27, 9, 47; (68348), 20, 7, 50; (68950), 6, 2, 86; (85709), 3, 1, 0; (87684), 3, 1, 0; (90075), 27, 9, 43; (96590), 3, 1, 0; (96631), 9, 3, 43; (102528), 41, 14, 50; (106589), 20, 7, 15; (136818), 22, 8, 19; (138925), 12, 4, 11; (141056), 12, 4, 15; (141670), 30, 10, 51; (142040), 39, 13, 86; (142464), 3, 1, 0; (142561), 36, 12, 46; (143624), 3, 1, 0; (143992), 9, 3, 2; (162011), 9, 3, 36; (162998), 3, 1, 0; (190166), 57, 19, 58; (190208), 3, 1, 0; (220909), 3, 1, 0; (232368), 30, 10, 19; (237805), 18, 6, 8; (250458), 3, 1, 0; (265962), 33, 11, 72; (294739), 24, 8, 16; (304640), 5, 2, 3; (322763), 24, 8, 15; (329520), 3, 1, 0; (333888), 3, 1, 0; (337228), 3, 1, 0; (366733), 30, 10, 19; (416584), 48, 16, 58; (422699), 24, 8, 11; (441987), 12, 4, 3; (457175), 3, 1, 0; (485652), 6, 2, 2; (495331), 26, 9, 26; (495848), 18, 6, 15; (495858), 3, 1, 0; (496005), 6, 2, 3; (496018), 30, 10, 31; *[1581, 124, 0∗, 2017/07/03–2017/09/30]*

168 Kourovskaya
G. S. Romashin, Kourovskaya Astronomical Observatory, Sloboda, Pervouralskij region, 623072 Sverdlovsk Oblast, Russia [edkuz@astro.urgu.e-burg.su]
Observers Y. Wiebe, D. Glamazda
Measurers Y. Wiebe, G. Kaiser
0.40-m $f/0.78$ Schmidt + CCD
UCAC-4
2017 PL_{26}, 7, 2, 1; (241), 2, 1, 0; (1179), 3, 1, 0; (1290), 4, 1, 0; (3122), 35, 2, 1; (3331), 13, 1, 0; (4101), 6, 2, 1; (14328), 5, 1, 0; (61145), 3, 1, 0; *[78, 9, 0∗, 2017/08/21–2017/09/02]*

169 Airali Observatory
S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy [starfield@tin.it]
0.25-m Schmidt-Cassegrain + CCD
UCAC-2
(1330), 2, 1, 0; (1431), 8, 1, 0; (2672), 8, 1, 0; (3685), 7, 1, 0; (4874), 7, 1, 0; (5010), 8, 1, 0; (6974), 8, 1, 0; (7641), 8, 1, 0; (7971), 3, 1, 0; (14376), 6, 1, 0; (14446), 8, 1, 0; (18582), 8, 1, 0; (21107), 8, 1, 0; (27005), 5, 1, 0; (27477), 11, 2, 5; (27496), 8, 1, 0; (54442), 8, 1, 0; *[121, 17, 0∗, 2017/07/03–2017/09/21]*

176 Observatorio Astronómico de Consell
À. López, Apartado de correos 122, E-07320 Santa Maria, Mallorca, Spain [obsconsell@wanadoo.es]
Observers À. López, R. Pacheco, J. Forteza
0.41-m $f/4$ reflector + CCD
USNO-A2.0, UCAC-2
2015 BE_{485}, 5, 1, 0; *[5, 1, 0∗, 2004/10/15]*

188 Majdanak
Yu. N. Krugly, Astronomical Observatory, Kharkiv State University, Sumska Street 35, UA-310022 Kharkiv, Ukraine [krugly@astron.kharkov.ua]
Observer A. V. Sergeyev
Measurers A. V. Sergeyev, Yu. N. Krugly
1.5-m $f/7.74$ reflector + CCD
USNO
2016 FK, 4, 1, 0; *[4, 1, 0∗, 2009/10/10]*

193 Sanglok
A. M. Buriev, Sanglok Observatory of the Institute of Astrophysics, Tajik Academy of Sciences, Bukhoro Str. 22, Dushanbe 734042, Tajikistan [anvar10@mail.ru]
Observers G. I. Kokhirova, A. Ivanova, A. M. Buriev, U. Kh. Khamroev, A. A. Ibrohimov
0.60-m $f/4$ reflector + CCD
UCAC-3
(596), 58, 3, 2; (190166), 147, 4, 3; *[205, 2, 0∗, 2017/07/30–2017/08/13]*

196 Homburg-Erbach
W. Wiedemann, Hasenaeckerstr. 29, D-66424 Homburg, Germany [Wolfgang.Wiedemann@t-online.de]
0.28-m $f/5$ Schmidt-Cassegrain + CCD
UCAC-4
2009 VY_{25}, 2, 1, 0; (1866), 3, 1, 0; (3800), 3, 1, 0; (7350), 3, 1, 0; (128442), 2, 1, 0; (141354), 3, 1, 0; (142561), 2, 1, 0; (190166), 3, 1, 0; (347813), 6, 2, 1; (416584), 2, 1, 0; (471241), 3, 1, 0; *[32, 11, 0∗, 2016/05/06–2017/06/19]*

198 Wildberg
R. Apitzsch, Schwarzwaldstrasse 17-2, D-72218 Wildberg, Germany [astrowild@astro-wildberg.de]
0.35-m $f/3.1$ reflector + CCD
PPMXL
2003 WJ_2, 6, 2, 23; 2006 RF_{24}, 6, 2, 8; 2008 SZ_{43}, 3, 1, 0; 2008 SM_{185}, 3, 1, 0; 2013 RX_1, 3, 1, 0; 2015 CJ_{62}, 3, 1, 0; 2015 DY_{217}, 3, 1, 0; 2015 YD_{20}, 6, 1, 0; 2017 MU_2, 3, 1, 0; 2017 NX_2, 5, 1, 0; 2017 OQ_{29}, 15, 2, 1; 2017 OO_{33}, 14, 2, 1; 2017 OT_{36}, 14, 2, 2; 2017 OC_{68} ∗, 23, 4, 21; 2017 PA_{31} ∗, 16, 3, 10; 2017 PB_{31} ∗, 34, 4, 21; 2017 QS_{16}, 13, 1, 0; 2017 QG_{32} ∗, 17, 3, 2; 2017 QK_{34} ∗, 15, 2, 1; 2017 QL_{34} ∗, 15, 2, 1; (13785), 3, 1, 0; (19817), 6, 2, 3; (44950), 5, 1, 0; (66889), 5, 1, 0; (71114), 6, 2, 3; (83571), 3, 1, 0; (83931), 10, 3, 23; (84629), 4, 2, 3; (88004), 3, 1, 0; (92938), 3, 1, 0; (93492), 7, 2, 26; (113985), 3, 1, 0; (119319), 2, 1, 0; (119520), 3, 1, 0; (122935), 3, 1, 0; (128776), 7, 1, 0; (133176), 3, 1, 0; (135272), 3, 1, 0; (137430), 3, 1, 0; (169489), 3, 1, 0; (171962), 3, 1, 0; (175475), 3, 1, 0; (186070), 6, 1, 0; (196696), 2, 1, 0; (196729), 3, 1, 0; (210103), 3, 1, 0; (224408), 3, 1, 0; (244024), 3, 1, 0; (266945), 3, 1, 0; (295290), 11, 3, 6; (296899), 3, 1, 0; (337491), 5, 2, 6; (372991), 2, 1, 0; (378802), 6, 2, 6; (419603), 2, 1, 0; (464769), 5, 1, 0; (466377), 8, 2, 30; *[373, 57, 6∗, 2015/12/03–2017/08/29]*

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
2017 BM_{31}, 4, 2, 5; 2017 MC_4, 2, 1, 0; 2017 NH, 4, 2, 5; 2017 NL_2, 2, 1, 0; 2017 NM_6, 2, 1, 0; 2017 OG_1, 2, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OF_7, 2, 1, 0; 2017 PR_{25}, 3, 1, 0; 2017 RV_1, 2, 1, 0; 2017 RJ_2, 3, 1, 0; (136818), 2, 1, 0; (142040), 4, 2, 5; (190166), 2, 1, 0; (304640), 2, 1, 0; (496018), 2, 1, 0; *[41, 16, 0∗, 2017/07/07–2017/09/20]*

204 Schiaparelli Observatory
F. Bellini, via A. del Sarto 3, I-21100 Varese, Italy [lucabuzzi.204@gmail.com]
Observers L. Buzzi, G. Colombo
0.36-m $f/7.1$ reflector + CCD, 0.60-m $f/4.64$ reflector + CCD
Gaia-DR1, UCAC-4, Gaia-DR1
2001 NJ_6, 2, 1, 0; 2008 CA_6, 3, 1, 0; 2009 BF, 5, 2, 3; 2010 MW, 2, 1, 0; 2011 BW_{72}, 2, 1, 0; 2011 CC_{22}, 3, 1, 0; 2011 NP, 3, 1, 0; 2013 RE_{21}, 3, 1, 0; 2013 TH_5, 2, 1, 0; 2013 VG_{13}, 3, 1, 0; 2014 OO_{195}, 2, 1, 0; 2014 SR_{339}, 5, 1, 0; 2015 FO_{124}, 3, 1, 0; 2015 UC_{84}, 2, 1, 0; 2016 CL_{32}, 2, 1, 0; 2016 CA_{138}, 3, 1, 0; 2017 AC_5, 2, 1, 0; 2017 BS_5, 3, 1, 0; 2017 BS_6, 2, 1, 0; 2017 BX_6, 3, 1, 0; 2017 BQ_{91}, 3, 1, 0; 2017 BJ_{92}, 3, 1, 0; 2017 CS, 2, 1, 0; 2017 CP_{32}, 3, 1, 0; 2017 DB, 3, 1, 0; 2017 DC, 3, 1, 0; 2017 DE, 3, 1, 0; 2017 DF, 3, 1, 0; 2017 GQ_6, 3, 1, 0; 2017 HN_{49}, 3, 1, 0; 2017 JU_1, 3, 1, 0; 2017 JL_3, 2, 1, 0; 2017 KJ_3, 3, 1, 0; 2017 KS_4, 3, 1, 0; 2017 KE_5, 2, 1, 0; 2017 KR_{27}, 3, 1, 0; 2017 KR_{31}, 3, 1, 0; 2017 LC, 2, 1, 0; 2017 LG, 2, 1, 0; 2017 MB, 2, 1, 0; 2017 MK, 2, 1, 0; 2017 MB_1, 5, 1, 0; 2017 MV_2, 2, 1, 0; 2017 MY_2, 3, 1, 0; 2017 MC_3, 3, 1, 0; 2017 MD_3, 3, 1, 0; 2017 MG_3, 3, 1, 0; 2017 MC_4, 5, 1, 0; 2017 MG_4, 2, 1, 0; 2017 MW_4, 2, 1, 0; 2017 MB_5, 8, 2, 2; 2017 MC_5, 2, 1, 0; 2017 MQ_7, 3, 1, 0; 2017 MV_7, 3, 1, 0; 2017 MT_8, 3, 1, 0; 2017 NB, 5, 1, 0; 2017 NC, 2, 1, 0; 2017 ND, 3, 1, 0; 2017 NH, 3, 1, 0; 2017 NL_2, 2, 1, 0; 2017 NS_5, 10, 2, 4; 2017 NV_5, 3, 1, 0; 2017 NM_6, 5, 1, 0; 2017 OC, 2, 1, 0; 2017 OD, 6, 1, 0; 2017 OD_1, 2, 1, 0; 2017 OG_1, 3, 1, 0; 2017 OL_1, 10, 2, 3; 2017 OM_1, 3, 1, 0; 2017 OF_7, 6, 2, 4; 2017 OH_7, 3, 1, 0; 2017 OL_8, 2, 1, 0; 2017 OS_{18}, 2, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OR_{19}, 3, 1, 0; 2017 OP_{68}, 5, 1, 0; 2017 PJ_{26}, 5, 1, 0; 2017 QY_{34}, 2, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RW_1, 2, 1, 0; 2017 RX_1, 3, 1, 0; 2017 RJ_2, 2, 1, 0; 2017 RU_2, 3, 1, 0; 2017 RV_2, 5, 1, 0; 2017 SO_{10}, 3, 1, 0; 2017 SP_{10}, 3, 1, 0; 2017 SQ_{10}, 3, 1, 0; (3122), 3, 1, 0; (3861), 3, 1, 0; (6629), 3, 1, 0; (11616), 3, 1, 0; (12843), 3, 1, 0; (33452), 2, 1, 0; (49766), 2, 1, 0; (54128), 3, 1, 0; (61994), 2, 1, 0; (66512), 3, 1, 0; (88277), 3, 1, 0; (109758), 2, 1, 0; (125189), 2, 1, 0; (152809), 2, 1, 0; (167842), 2, 1, 0; (244767), 2, 1, 0; (321439), 2, 1, 0; (457175), 3, 1, 0; (470310), 3, 1, 0; (481394), 3, 1, 0; (482650), 3, 1, 0; (483422), 3, 1, 0; (483508), 3, 1, 0; (484517), 2, 1, 0; (485652), 5, 1, 0; (486692), 3, 1, 0; (491424), 3, 1, 0; (494975), 3, 1, 0; (495331), 3, 1, 0; (495829), 3, 1, 0; (495848), 2, 1, 0; (495959), 3, 1, 0; (495960), 3, 1, 0; (496018), 3, 1, 0; *[370, 122, 0∗, 2013/08/10–2017/09/22]*

212 Observatorio La Dehesilla
I. Almendros L., Via del Mar 10, E-29004 Málaga, Spain [ialmend@ono.com]
0.30-m $f/10$ Schmidt-Cassegrain + CCD
CMC, USNO-A2.0
(27854), 3, 1, 0; (45526), 3, 1, 0; (67087), 3, 1, 0; (119882), 3, 1, 0; (225534), 3, 1, 0; *[15, 5, 0∗, 2017/08/28–2017/09/17]*

213 Observatorio Montcabre
R. Naves N., c/o J. Balmes, no. 24 Cabrils, E-08348 Barcelona, Spain [ramonnaves@telefonica.net]
Observer R. Naves
Measurer M. Campas
0.30-m $f/10$ Schmidt-Cassegrain
CMC-15, USNO-A2.0
2013 RT_{31}, 3, 1, 0; (3122), 3, 1, 0; *[6, 2, 0∗, 2017/07/28–2017/08/31]*

215 Buchloe
W. Hasubick, Fischerweg 24, D-86807 Buchloe, Germany [werner.hasubick@t-online.de]
0.44-m f/4.6 reflector + CCD
UCAC-4
2017 NS_5, 3, 1, 0; 2017 SV_{13}, 3, 1, 0; (3032), 3, 1, 0; *[9, 3, 0∗, 2017/07/17–2017/09/25]*

238 Grorudalen Optical Observatory
O. Trondal, Hogtunv. 2B, Oslo, Norway [otrondal@online.no]
0.61-m Cassegrain + CCD
UCAC-2
(3122), 7, 1, 0; (138925), 12, 3, 4; *[19, 2, 0∗, 2017/07/20–2017/09/13]*

246 Kleť Observatory-KLENOT
J. Tichá, Hvězdárna Kleť, Zátkovo nábřeží 4, CZ-37001 České Budějovice, South Bohemia, Czech Republic [klet@klet.cz]
Observers M. Tichý, J. Tichá
1.06-m KLENOT Telescope + CCD
UCAC-4
1998 SZ_{27}, 2, 1, 0; 2006 KA_{40}, 13, 2, 1; 2008 MH_1, 9, 1, 0; 2012 FH_{38}, 4, 1, 0; 2012 XP_{106}, 8, 1, 0; 2014 DH_{115}, 2, 1, 0; 2014 YC_{15}, 7, 1, 0; 2016 AA_9, 8, 1, 0; 2016 CV_{136}, 3, 1, 0; 2016 FW_{36}, 7, 1, 0; 2017 MY_2, 4, 1, 0; 2017 NL_6, 14, 2, 5; 2017 OC, 4, 1, 0; 2017 OD, 6, 1, 0; 2017 OD_1, 21, 3, 7; 2017 OT_{18}, 14, 2, 5; 2017 OH_{68}, 4, 1, 0; 2017 PF, 5, 1, 0; 2017 PR_{24}, 8, 1, 0; 2017 PS_{25}, 27, 4, 7; 2017 PT_{25}, 35, 4, 7; 2017 PU_{25}, 12, 2, 5; 2017 PV_{25}, 9, 1, 0; 2017 PL_{26}, 7, 1, 0; 2017 QB, 23, 4, 6; 2017 QX_1, 15, 2, 5; 2017 QG_3, 3, 1, 0; 2017 QS_{16}, 9, 1, 0; 2017 QE_{17}, 5, 1, 0; 2017 QJ_{17}, 3, 1, 0; 2017 QO_{17}, 2, 1, 0; 2017 QP_{17}, 4, 1, 0; 2017 QR_{17}, 20, 4, 6; 2017 QS_{17}, 5, 1, 0; 2017 QW_{17}, 8, 1, 0; 2017 QG_{18}, 3, 1, 0; 2017 QM_{32}, 6, 1, 0; 2017 QN_{32}, 4, 1, 0; 2017 QB_{33}, 6, 2, 1; 2017 QE_{33}, 3, 1, 0; 2017 QN_{33}, 9, 2, 1; 2017 QP_{33}, 2, 1, 0; (418), 15, 1, 0; (1418), 7, 1, 0; (1677), 7, 1, 0; (2769), 9, 1, 0; (3518), 9, 1, 0; (3632), 4, 1, 0; (4379), 13, 1, 0; (5143), 7, 1, 0; (5685), 9, 1, 0; (7877), 3, 1, 0; (8325), 9, 1, 0; (9121), 6, 1, 0; (9371), 3, 1, 0; (11398), 6, 1, 0; (11608), 6, 1, 0; (11756), 6, 1, 0; (11878), 7, 1, 0; (12833), 8, 1, 0; (14499), 8, 1, 0; (15227), 15, 1, 0; (17869), 10, 1, 0; (17900), 5, 1, 0; (18456), 9, 1, 0; (18667), 7, 1, 0; (18860), 7, 1, 0; (18965), 7, 1, 0; (19111), 4, 1, 0; (19774), 7, 1, 0; (19817), 9, 1, 0; (20689), 8, 1, 0; (22924), 6, 1, 0; (24137), 9, 1, 0; (28261), 9, 1, 0; (34946), 13, 1, 0; (35139), 3, 1, 0; (35974), 10, 1, 0; (36581), 4, 1, 0; (37527), 13, 1, 0; (38078), 8, 1, 0; (38319), 6, 1, 0; (39403), 6, 1, 0; (39862), 9, 1, 0; (41993), 4, 1, 0; (42966), 5, 1, 0; (44373), 2, 1, 0; (45060), 7, 1, 0; (45115), 8, 1, 0; (48804), 6, 1, 0; (50592), 9, 1, 0; (52839), 5, 1, 0; (53224), 3, 1, 0; (55372), 8, 1, 0; (59664), 7, 1, 0; (60444), 9, 1, 0; (61020), 8, 1, 0; (62261), 2, 1, 0; (65654), 7, 1, 0; (68885), 16, 1, 0; (69449), 8, 1, 0; (69672), 4, 1, 0; (70153), 7, 1, 0; (70427), 18, 1, 0; (70866), 10, 1, 0; (71830), 4, 1, 0; (73140), 8, 1, 0; (73195), 9, 1, 0; (78859), 7, 1, 0; (82048), 4, 1, 0; (82111), 11, 1, 0; (88383), 6, 1, 0; (89073), 10, 1, 0; (91798), 12, 1, 0; (100019), 13, 1, 0; (105585), 8, 1, 0; (106400), 8, 1, 0; (107206), 9, 1, 0; (108802), 3, 1, 0; (111583), 4, 1, 0; (113542), 9, 1, 0; (120615), 5, 1, 0; (122588), 9, 1, 0; (126692), 14, 1, 0; (135486), 7, 1, 0; (138606), 4, 1, 0; (147173), 7, 1, 0; (151863), 6, 1, 0; (157004), 6, 1, 0; (157293), 9, 1, 0; (163415), 10, 1, 0; (163435), 4, 1, 0; (173276), 5, 1, 0; (186172), 5, 1, 0; (188101), 7, 1, 0; (216931), 6, 1, 0; (232557), 2, 1, 0; (236591), 9, 1, 0; (247794), 11, 1, 0; (253563), 3, 1, 0; (258840), 3, 1, 0; (267184), 6, 1, 0; (278825), 7, 1, 0; (279558), 3, 1, 0; (282168), 11, 1, 0; (325771), 2, 1, 0; (335539), 6, 1, 0; (345089), 5, 1, 0; (373862), 7, 1, 0; (387279), 4, 1, 0; (431475), 5, 1, 0; (468114), 7, 1, 0; *[1162, 152, 0∗, 2017/07/19–2017/08/30]*

247 Roving Observer
G. Wells, Flat 5, 44 Dabbs Hill Lane, Northolt, Middlesex, UB5 4AG, England [northoltbranchobservatory@hotmail.com]
Observer G. Wells
Measurer D. Bamberger
0.15-m f/10 Schmidt-Cassegrain + CCD
Gaia-DR1
2017 PT_{25}, 6, 1, 0; *[6, 1, 0∗, 2017/08/15]*

260 Siding Spring-DSS
E. Colombini, Via Manfredini 26, I-41043 Formigine (MO) Italy [ermes.colombini@tin.it] (5)
S. Foglia, C. Gariboldi 11, I-28100 Novara Veveri, Italy [se.foglia@gmail.com] (29)
Measurers E. Colombini, S. Foglia, M. Tombelli
1.2-m Schmidt
UCAC-3, USNO-B1.0
{5} 2004 PO_2, 4, 2, 48; 2004 RG_1, 4, 2, 77; 2005 WD_{166}, 2, 1, 0; 2012 DT_{16}, 2, 1, 0; 2013 PL_{43}, 2, 1, 0; 2015 DC_{135}, 2, 1, 0; (22842), 2, 1, 0; (36843), 2, 1, 0; (46015), 2, 1, 0; (111842), 2, 1, 0; (147055), 2, 1, 0; (157464), 2, 1, 0; *[28, 12, 0∗, 1982/07/20–1995/10/21]*

{29} 2010 NG_3, 2, 1, 0; *[2, 1, 0∗, 1976/08/27]*

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
UCAC-3
2001 SP_{152}, 2, 1, 0; 2002 PP_{63}, 2, 1, 0; 2002 XN_{99}, 2, 1, 0; 2013 PX_{13}, 2, 1, 0; (320), 2, 1, 0; (374), 2, 1, 0; (6711), 2, 1, 0; (7616), 2, 1, 0; (9625), 2, 1, 0; (10790), 2, 1, 0; (11641), 2, 1, 0; (12162), 2, 1, 0; (13042), 2, 1, 0; (15436), 2, 1, 0; (17731), 2, 1, 0; (21153), 2, 1, 0; (22842), 3, 2, 3484; (27488), 2, 1, 0; (34864), 2, 1, 0; (40531), 2, 1, 0; (41474), 2, 1, 0; (42990), 2, 1, 0; (43831), 2, 1, 0; (45271), 2, 1, 0; (46239), 2, 1, 0; (46325), 2, 1, 0; (52649), 2, 1, 0; (58494), 2, 1, 0; (65728), 2, 1, 0; (66898), 1, 1, 0; (68400), 2, 1, 0; (69014), 2, 1, 0; (79278), 2, 1, 0; (85023), 2, 1, 0; (91478), 2, 1, 0; (93816), 2, 1, 0; (109715), 2, 1, 0; (113385), 2, 1, 0; (115234), 2, 1, 0; (123631), 1, 1, 0; (129542), 2, 1, 0; (135412), 1, 1, 0; (140913), 2, 1, 0; (146740), 2, 1, 0; (155955), 2, 1, 0; (161320), 2, 1, 0; (166871), 2, 1, 0; (168569), 2, 1, 0; (169147), 2, 1, 0; (171587), 1, 1, 0; (177653), 2, 1, 0; (186030), 2, 1, 0; (190431), 2, 1, 0; (192810), 2, 1, 0; (197518), 2, 1, 0; (199200), 1, 1, 0; (203822), 2, 1, 0; (213590), 2, 1, 0; (253393), 2, 1, 0; (274048), 2, 1, 0; (283875), 2, 1, 0; (333287), 2, 1, 0; *[120, 62, 0∗, 1987/08/23–1997/03/10]*

290 Mt. Graham
M. Holman, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [mholman@cfa.harvard.edu] (1)
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
1.83-m f/9.2 reflector + CCD
UCAC-2
{1} 2017 RB_{12}, 2, 1, 0; *[2, 1, 0∗, 2007/04/23]*

{5} 2009 VT_{74}, 2, 1, 0; 2010 RF_{154}, 5, 1, 0; 2014 DJ_{123}, 5, 1, 0; 2014 QH_{431}, 5, 1, 0; 2015 BF_{32}, 6, 1, 0; 2016 GD_{133}, 5, 1, 0; 2017 SF_{13}, 2, 1, 0; (45611), 4, 1, 0; (122565), 4, 1, 0; (150075), 6, 1, 0; (150552), 6, 1, 0; (160944), 3, 1, 0; (205488), 6, 1, 0; (214902), 6, 1, 0; (226315), 6, 1, 0; (262435), 4, 1, 0; *[75, 16, 0∗, 2011/04/30–2016/03/10]*

291 LPL/Spacewatch II
R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu]
Observers M. J. Brucker, R. A. Mastaler, A. F. Tubbiolo, T. H. Bressi, J. V. Scotti, R. S. McMillan, M. T. Read
1.8-m f/2.7 reflector + CCD
USNO-B1.0
1989 UP, 6, 2, 1; 1996 SO_5, 3, 1, 0; 1998 VH_{57}, 3, 1, 0; 1998 WP_7, 3, 1, 0; 2001 HB, 3, 1, 0; 2001 WW_{68}, 3, 1, 0; 2002 BT_{32} ∗, 3, 1, 0; 2002 FA_{42} ∗, 3, 1, 0; 2002 GC_{192} ∗, 3, 1, 0; 2002 HQ_{16}, 3, 1, 0; 2002 OB_{32}, 9, 1, 0; 2002 QQ_{157}, 3, 1, 0; 2002 UB_{80}, 3, 1, 0; 2002 VU_{149}, 3, 1, 0; 2002 WL_{32} ∗, 3, 1, 0; 2003 AY_{22}, 3, 1, 0; 2003 WY_{154}, 3, 1, 0; 2004 BP_{69}, 3, 1, 0; 2004 EK_1, 2, 1, 0; 2004 KO_{19}, 3, 1, 0; 2004 QF_1, 3, 1, 0; 2004 RJ_5, 6, 2, 1860; 2004 VR_{71}, 3, 1, 0; 2004 VJ_{75}, 3, 1, 0; 2004 XS_{157}, 3, 1, 0; 2005 CS_{33}, 3, 1, 0; 2005 UN_{157}, 3, 1, 0; 2006 HF_{140}, 3, 1, 0; 2006 OC_5, 3, 1, 0; 2006 QE, 3, 1, 0; 2006 QT_{89}, 3, 1, 0; 2006 RF_{55}, 3, 1, 0; 2006 SW_{21}, 9, 1, 0; 2006 SR_{97}, 3, 1, 0; 2006 TU_7, 3, 1, 0; 2006 TV_{113}, 3, 1, 0; 2006 YY_2, 3, 1, 0; 2007 EH_{50}, 3, 1, 0;

2007 ES_{225}, 3, 1, 0; 2007 JM_{40}, 3, 1, 0; 2007 PS_{9}, 3, 1, 0; 2007 RU_{10}, 2, 1, 0; 2007 RM_{133}, 3, 1, 0; 2007 VV_{303}, 3, 1, 0; 2007 VV_{337}, 3, 1, 0; 2007 VW_{337}, 6, 1, 0; 2008 AQ_{20}, 3, 1, 0; 2008 EE_{171}, 9, 1, 0; 2008 FW_{78}, 3, 1, 0; 2008 RH_{116}, 3, 1, 0; 2008 RP_{117}, 3, 1, 0; 2008 RM_{122}, 3, 1, 0; 2008 RT_{147}, 3, 1, 0; 2008 TC_{4}, 3, 1, 0; 2008 TQ_{191}, 3, 1, 0; 2008 VU_{45}, 3, 1, 0; 2008 YB_{119}, 3, 1, 0; 2009 AA_{21}, 3, 1, 0; 2009 AT_{50}, 3, 1, 0; 2009 EO_{2}, 3, 1, 0; 2009 HA_{21}, 2, 1, 0; 2009 HW_{108}, 3, 1, 0; 2009 SL_{67}, 3, 1, 0; 2009 SV_{67}, 3, 1, 0; 2009 SU_{151}, 3, 1, 0; 2009 SK_{220}, 3, 1, 0; 2009 TP_{30}, 3, 1, 0; 2009 TP_{49}, 3, 1, 0; 2009 UE_{159}, 3, 1, 0; 2009 VA_{16}, 3, 1, 0; 2009 WU_{7}, 3, 1, 0; 2009 YJ_{14}, 3, 1, 0; 2010 CO_{69}, 3, 1, 0; 2010 CB_{216}, 3, 1, 0; 2010 CC_{252} *, 3, 1, 0; 2010 GY_{117}, 3, 1, 0; 2010 JN_{179}, 3, 1, 0; 2010 LQ_{36}, 3, 1, 0; 2010 LA_{109}, 3, 1, 0; 2010 NY_{9}, 3, 1, 0; 2010 RL_{188}, 3, 1, 0; 2010 VW_{61}, 3, 1, 0; 2010 VN_{225}, 3, 1, 0; 2011 BU_{123}, 3, 1, 0; 2011 CC_{22}, 3, 1, 0; 2011 FZ_{48}, 3, 1, 0; 2011 FJ_{86}, 3, 1, 0; 2011 GA_{69}, 3, 1, 0; 2011 HZ_{61}, 3, 1, 0; 2011 OB, 3, 1, 0; 2011 OH_{34}, 3, 1, 0; 2011 SQ_{277}, 3, 1, 0; 2011 SS_{277}, 3, 1, 0; 2011 UT_{20}, 3, 1, 0; 2011 UE_{198}, 3, 1, 0; 2011 WS_{157}, 3, 1, 0; 2012 BB_{124}, 3, 1, 0; 2012 CO_{46}, 3, 1, 0; 2012 FH_{38}, 3, 1, 0; 2012 GP_{8}, 3, 1, 0; 2012 GZ_{40}, 3, 1, 0; 2012 QA_{1}, 3, 1, 0; 2012 RQ_{34}, 3, 1, 0; 2012 TF_{53}, 3, 1, 0; 2012 TT_{241}, 3, 1, 0; 2012 UK_{154}, 3, 1, 0; 2012 VZ_{77}, 3, 1, 0; 2012 XT_{85}, 3, 1, 0; 2013 AE_{184}, 3, 1, 0; 2013 BZ_{26}, 3, 1, 0; 2013 CG_{87}, 3, 1, 0; 2013 HT_{129}, 3, 1, 0; 2013 PJ_{67}, 3, 1, 0; 2013 QB_{95}, 3, 1, 0; 2013 RZ_{98}, 3, 1, 0; 2013 TS_{5}, 3, 1, 0; 2013 TW_{16}, 3, 1, 0; 2013 US_{3}, 3, 1, 0; 2013 VT_{3}, 3, 1, 0; 2013 VO_{24}, 3, 1, 0; 2013 XN_{24}, 2, 1, 0; 2013 YU_{68}, 3, 1, 0; 2014 BD_{33}, 2, 1, 0; 2014 BD_{60}, 3, 1, 0; 2014 CU_{13}, 3, 1, 0; 2014 DH_{1}, 3, 1, 0; 2014 FV_{72}, 3, 1, 0; 2014 GQ_{47}, 3, 1, 0; 2014 GU_{48}, 3, 1, 0; 2014 JZ_{11}, 3, 1, 0; 2014 JE_{30}, 3, 1, 0; 2014 JN_{57}, 3, 1, 0; 2014 JL_{81}, 3, 1, 0; 2014 KP_{4}, 2, 1, 0; 2014 KP_{21}, 3, 1, 0; 2014 KK_{38}, 3, 1, 0; 2014 MT_{2}, 3, 1, 0; 2014 NQ_{47}, 3, 1, 0; 2014 OA_{296}, 3, 1, 0; 2014 OH_{395}, 3, 1, 0; 2014 QF_{443}, 3, 1, 0; 2014 QL_{443}, 3, 1, 0; 2014 RU_{63}, 3, 1, 0; 2014 SH_{148}, 3, 1, 0; 2014 SJ_{221}, 3, 1, 0; 2014 SA_{271}, 3, 1, 0; 2014 SB_{351}, 3, 1, 0; 2014 TB_{6}, 3, 1, 0; 2014 TR_{46}, 3, 1, 0; 2014 UW, 3, 1, 0; 2014 UF_{4}, 3, 1, 0; 2014 UA_{5}, 3, 1, 0; 2014 UV_{21}, 3, 1, 0; 2014 UB_{25}, 3, 1, 0; 2014 UN_{41}, 3, 1, 0; 2014 US_{41}, 3, 1, 0; 2014 UL_{48}, 3, 1, 0; 2014 UV_{124}, 3, 1, 0; 2014 UW_{161}, 3, 1, 0; 2014 US_{192}, 5, 2, 3; 2014 UY_{206}, 3, 1, 0; 2014 VV_{14}, 3, 1, 0; 2014 VH_{35}, 3, 1, 0; 2014 WL_{102}, 3, 1, 0; 2014 WL_{135}, 6, 2, 2549; 2014 WQ_{135}, 3, 1, 0; 2014 WF_{143}, 6, 2, 2537; 2014 WD_{201}, 2, 1, 0; 2014 WA_{223}, 3, 1, 0; 2014 WO_{240}, 3, 1, 0; 2014 WU_{262}, 3, 1, 0; 2014 WE_{429}, 3, 1, 0; 2014 WP_{463}, 3, 1, 0; 2014 WW_{477}, 3, 1, 0; 2014 WF_{479}, 3, 1, 0; 2014 WY_{479}, 3, 1, 0; 2014 WG_{480}, 3, 1, 0; 2014 WP_{511}, 3, 1, 0; 2014 XQ_{6}, 3, 1, 0; 2014 YT_{38}, 3, 1, 0; 2014 YJ_{41}, 3, 1, 0; 2014 YL_{47}, 3, 1, 0; 2015 AG_{112}, 3, 1, 0; 2015 AC_{180}, 3, 1, 0; 2015 AS_{281}, 3, 1, 0; 2015 BZ_{5}, 3, 1, 0; 2015 BP_{6}, 3, 1, 0; 2015 BT_{13}, 6, 2, 1987; 2015 BA_{19}, 3, 1, 0; 2015 BZ_{22}, 3, 1, 0; 2015 BD_{27}, 3, 1, 0; 2015 BO_{41}, 3, 1, 0; 2015 BE_{61}, 3, 1, 0; 2015 BB_{67}, 6, 1, 0; 2015 BK_{74}, 3, 1, 0; 2015 BF_{79}, 3, 1, 0; 2015 BW_{87}, 3, 1, 0; 2015 BN_{100}, 6, 2, 35; 2015 BZ_{102}, 3, 1, 0; 2015 BQ_{130}, 3, 1, 0; 2015 BQ_{132}, 3, 1, 0; 2015 BB_{144}, 3, 1, 0; 2015 BG_{146}, 3, 1, 0; 2015 BG_{151}, 3, 1, 0; 2015 BA_{156}, 3, 1, 0; 2015 BO_{165}, 3, 1, 0; 2015 BE_{169}, 3, 1, 0; 2015 BM_{176}, 3, 1, 0; 2015 BR_{184}, 6, 2, 1496; 2015 BY_{207}, 3, 1, 0; 2015 BZ_{210}, 3, 1, 0; 2015 BK_{248}, 3, 1, 0; 2015 BF_{252}, 3, 1, 0; 2015 BS_{254}, 3, 1, 0; 2015 BV_{258}, 3, 1, 0; 2015 BE_{260}, 3, 1, 0; 2015 BJ_{266}, 3, 1, 0; 2015 BD_{276}, 3, 1, 0; 2015 BZ_{277}, 3, 1, 0; 2015 BJ_{280}, 3, 1, 0; 2015 BZ_{303}, 6, 2, 52; 2015 BC_{322}, 3, 1, 0; 2015 BF_{327}, 3, 1, 0; 2015 BP_{346}, 3, 1, 0; 2015 BG_{350}, 3, 1, 0; 2015 BZ_{351}, 3, 1, 0; 2015 BN_{361}, 3, 1, 0; 2015 BD_{405}, 3, 1, 0; 2015 BK_{420}, 3, 1, 0; 2015 BL_{433}, 3, 1, 0; 2015 BH_{440}, 3, 1, 0; 2015 BV_{440}, 6, 2, 439; 2015 BK_{455}, 3, 1, 0; 2015 BP_{457}, 3, 1, 0; 2015 BQ_{459}, 3, 1, 0; 2015 BS_{498}, 3, 1, 0; 2015 BP_{503}, 3, 1, 0; 2015 BT_{505}, 3, 1, 0; 2015 BC_{506}, 3, 1, 0; 2015 BJ_{513}, 3, 1, 0; 2015 BU_{520}, 3, 1, 0; 2015 BJ_{521}, 3, 1, 0; 2015 CS_{1}, 3, 1, 0; 2015 CB_{9}, 3, 1, 0; 2015 CK_{14}, 3, 1, 0; 2015 CQ_{20}, 3, 1, 0; 2015 CN_{26}, 3, 1, 0; 2015 CV_{26}, 3, 1, 0; 2015 CF_{33}, 6, 1, 0; 2015 CB_{40}, 3, 1, 0; 2015 CO_{51}, 3, 1, 0; 2015 CE_{57}, 3, 1, 0; 2015 CX_{58}, 3, 1, 0; 2015 DP_{11}, 3, 1, 0; 2015 DH_{22}, 3, 1, 0; 2015 DP_{35}, 3, 1, 0; 2015 DV_{50}, 6, 2, 24; 2015 DN_{57}, 3, 1, 0; 2015 DD_{89}, 3, 1, 0; 2015 DK_{105}, 3, 1, 0; 2015 DE_{107}, 3, 1, 0; 2015 DP_{121}, 3, 1, 0; 2015 DC_{135}, 3, 1, 0; 2015 DY_{155}, 3, 1, 0; 2015 DP_{160}, 3, 1, 0; 2015 DZ_{163}, 3, 1, 0; 2015 DO_{165}, 3, 1, 0; 2015 DU_{179}, 3, 1, 0; 2015 DJ_{180}, 6, 1, 0; 2015 DM_{202}, 3, 1, 0; 2015 DT_{225}, 6, 2, 2390; 2015 EJ_{33}, 3, 1, 0; 2015 EQ_{44}, 3, 1, 0; 2015 EO_{51}, 3, 1, 0; 2015 EM_{69}, 3, 1, 0; 2015 FV_{1}, 3, 1, 0; 2015 FJ_{6}, 3, 1, 0; 2015 FU_{141}, 3, 1, 0; 2015 FV_{146}, 3, 1, 0; 2015 FX_{222}, 3, 1, 0; 2015 FQ_{261}, 3, 1, 0; 2015 FV_{347}, 3, 1, 0; 2015 FQ_{382}, 3, 1, 0; 2015 FZ_{384}, 3, 1, 0; 2015 FX_{388}, 3, 1, 0; 2015 FD_{394}, 3, 1, 0; 2015 GN_{4}, 3, 1, 0; 2015 GR_{11}, 3, 1, 0; 2015 GK_{43}, 3, 1, 0; 2015 GV_{50}, 3, 1, 0; 2015 HR_{7}, 3, 1, 0; 2015 HK_{20}, 3, 1, 0; 2015 HM_{35}, 3, 1, 0; 2015 HX_{36}, 3, 1, 0; 2015 HH_{145}, 3, 1, 0; 2015 HJ_{159}, 3, 1, 0; 2015 KS_{163}, 3, 1, 0; 2015 KT_{163}, 3, 1, 0; 2015 OA_{2}, 3, 1, 0; 2015 PC_{228}, 3, 1, 0; 2015 PR_{312}, 3, 1, 0; 2015 RU_{11}, 3, 1, 0; 2015 RY_{237}, 3, 1, 0; 2015 TF_{148}, 3, 1, 0; 2015 TW_{166}, 3, 1, 0; 2015 TM_{237}, 2, 1, 0; 2015 UY_{84}, 3, 1, 0; 2015 VN_{121}, 3, 1, 0; 2015 VA_{153}, 3, 1, 0; 2015 XZ_{385}, 3, 1, 0; 2016 AX_{10}, 3, 1, 0; 2016 AM_{30}, 3, 1, 0; 2016 AC_{195}, 3, 1, 0; 2016 AC_{196}, 3, 1, 0; 2016 AN_{198}, 3, 1, 0; 2016 AX_{199}, 3, 1, 0; 2016 BD_{82}, 3, 1, 0; 2016 CK_{13}, 3, 1, 0; 2016 CD_{28}, 3, 1, 0; 2016 CB_{123}, 3, 1, 0; 2016 CT_{245}, 3, 1, 0; 2016 CC_{251}, 3, 1, 0; 2016 CR_{261}, 3, 1, 0; 2016 CM_{266}, 3, 1, 0; 2016 EC_{8}, 3, 1, 0; 2016 EK_{52}, 3, 1, 0; 2016 EY_{55}, 3, 1, 0; 2016 EX_{141}, 9, 1, 0; 2016 EL_{195}, 3, 1, 0; 2016 EY_{203}, 3, 1, 0; 2016 EB_{205}, 3, 1, 0; 2016 ER_{205}, 3, 1, 0; 2016 FO_{9}, 3, 1, 0; 2016 FB_{11}, 3, 1, 0; 2016 FF_{42}, 3, 1, 0; 2016 FX_{47}, 3, 1, 0; 2016 FV_{51}, 3, 1, 0; 2016 FW_{60}, 6, 1, 0; 2016 GK_{11}, 6, 2, 2544; 2016 GB_{12}, 3, 1, 0; 2016 GN_{29}, 3, 1, 0; 2016 GD_{53}, 3, 1, 0; 2016 GY_{54}, 3, 1, 0; 2016 GB_{57}, 3, 1, 0; 2016 GY_{87}, 3, 1, 0; 2016 GQ_{95}, 3, 1, 0; 2016 GE_{110}, 3, 1, 0; 2016 GS_{112}, 3, 1, 0; 2016 GS_{128}, 3, 1, 0; 2016 GW_{170}, 3, 1, 0; 2016 GK_{186}, 3, 1, 0; 2016 GB_{218}, 3, 1, 0; 2016 GL_{252}, 3, 1, 0; 2016 HH_{14}, 3, 1, 0; 2016 KJ_{4}, 3, 1, 0; 2016 LJ_{13}, 3, 1, 0; 2016 LJ_{25}, 3, 1, 0; 2016 OZ_{1}, 3, 1, 0; 2016 SO_{1}, 3, 1, 0; 2016 SP_{2}, 2, 1, 0; 2016 SW_{46}, 3, 1, 0; 2016 TN_{14}, 3, 1, 0; 2016 TR_{54}, 3, 1, 0; 2016 TG_{95}, 3, 1, 0; 2016 UP_{41}, 3, 1, 0; 2016 UM_{54}, 3, 1, 0; 2017 AN_{19}, 4, 2, 27; 2017 EP, 3, 1, 0; 2017 FE_{1}, 9, 3, 23; 2017 FJ_{90}, 6, 2, 46; 2017 GP_{6}, 3, 1, 0; 2017 HL_{3}, 3, 1, 0; 2017 HV_{4}, 2, 1, 0; 2017 KB_{12}, 3, 1, 0; 2017 KP_{28}, 6, 2, 2356; 2017 KD_{35}, 3, 1, 0; 2017 LU, 3, 1, 0; 2017 MX, 3, 1, 0; 2017 MB_{1}, 2, 1, 0; 2017 MV_{2}, 3, 1, 0; 2017 MK_{7}, 3, 1, 0; 2017 MK_{8}, 3, 1, 0; 2017 MU_{8}, 6, 2, 14; 2017 ME_{9}, 3, 1, 0; 2017 NK, 25, 9, 64; 2017 NN_{5}, 3, 1, 0; 2017 NS_{5}, 6, 2, 20; 2017 ND_{6}, 3, 1, 0; 2017 NR_{6}, 5, 2, 21; 2017 OR, 3, 1, 0; 2017 OB_{1}, 2, 1, 0; 2017 OC_{1}, 3, 1, 0; 2017 OD_{1}, 3, 1, 0; 2017 OF_{1}, 3, 1, 0; 2017 OH_{1}, 3, 1, 0; 2017 OL_{1}, 3, 1, 0; 2017 OO_{1}, 3, 1, 0; 2017 OW_{1}, 3, 1, 0; 2017 OO_{3}, 3, 1, 0; 2017 OR_{6}, 3, 1, 0; 2017 OC_{7}, 3, 1, 0; 2017 OY_{7}, 3, 1, 0; 2017 OP_{9}, 3, 1, 0; 2017 OK_{18}, 3, 1, 0; 2017 OG_{19}, 3, 1, 0; 2017 OH_{19}, 3, 1, 0; 2017 ON_{19}, 3, 1, 0; 2017 OO_{19}, 3, 1, 0; 2017 OP_{19}, 11, 4, 62; 2017 OQ_{19}, 3, 1, 0; 2017 OY_{19}, 3, 1, 0; 2017 OE_{20}, 2, 1, 0; 2017 OL_{20}, 3, 1, 0; 2017 OB_{22}, 6, 2, 1869; 2017 OP_{49}, 6, 2, 949; 2017 OE_{50}, 3, 1, 0; 2017 OF_{61}, 3, 1, 0; 2017 OB_{64}, 3, 1, 0; 2017 OD_{64}, 3, 1, 0; 2017 OG_{68}, 2, 1, 0; 2017 OH_{68}, 4, 1, 0; 2017 ON_{68}, 3, 1, 0; 2017 OQ_{68}, 3, 1, 0; 2017 OR_{68}, 3, 1, 0; 2017 OS_{68}, 3, 1, 0; 2017 OT_{68}, 2, 1, 0; 2017 OV_{68}, 3, 1, 0; 2017 OY_{68}, 3, 1, 0; 2017 OB_{69}, 2, 1, 0; 2017 PE, 3, 1, 0; 2017 PF, 3, 1, 0; 2017 PM_{7}, 3, 1, 0; 2017 PS_{24}, 5, 2, 1; 2017 PA_{25}, 3, 1, 0; 2017 PM_{25}, 3, 1, 0; 2017 PQ_{25}, 3, 1, 0; 2017 PR_{25}, 9, 3, 3; 2017 PQ_{26}, 5, 2, 2; 2017 PV_{26}, 5, 2, 31; 2017 PB_{27}, 3, 1, 0; 2017 PS_{30}, 2, 1, 0; 2017 PY_{30}, 3, 1, 0; 2017 QA, 2, 1, 0; 2017 QC, 3, 1, 0; 2017 QK, 2, 1, 0; 2017 QO, 6, 2, 1; 2017 QQ, 3, 1, 0; 2017 QK_{1}, 3, 1, 0; 2017 QL_{1}, 3, 1, 0; 2017 QN_{1}, 2, 1, 0; 2017 QO_{1}, 2, 1, 0; 2017 QQ_{1}, 3, 1, 0; 2017 QT_{1}, 6, 2, 1; 2017 QU_{1}, 3, 1, 0; 2017 QW_{1}, 3, 1, 0; 2017 QZ_{1}, 3, 1, 0; 2017 QA_{2}, 2, 1, 0; 2017 QC_{2}, 6, 2, 3; 2017 QD_{2}, 6, 2, 2; 2017 QE_{2}, 3, 1, 0; 2017 QS_{2}, 3, 1, 0; 2017 QV_{2}, 2, 1, 0; 2017 QA_{3}, 3, 1, 0; 2017 QC_{3}, 5, 2, 25; 2017 QD_{3}, 5, 2, 11; 2017 QJ_{16}, 3, 1, 0; 2017 QK_{16}, 3, 1, 0; 2017 QN_{16}, 3, 1, 0; 2017 QR_{16}, 2, 1, 0; 2017 QO_{17}, 6, 2, 1; 2017 QW_{17}, 9, 3, 17; 2017 QM_{18}, 3, 1, 0; 2017 QP_{20}, 3, 1, 0; 2017 QX_{20}, 3, 1, 0; 2017 QE_{23}, 3, 1, 0; 2017 QU_{32}, 3, 1, 0; 2017 QX_{32}, 2, 1, 0; 2017 QZ_{32}, 5, 2, 1; 2017 QF_{33}, 6, 2, 28; 2017 QG_{33}, 3, 1, 0; 2017 QH_{33}, 2, 1, 0; 2017 QJ_{33}, 3, 1, 0; 2017 QK_{33}, 3, 1, 0; 2017 QL_{33}, 3, 1, 0; 2017 QO_{33}, 3, 1, 0; 2017 QR_{33}, 3, 1, 0; 2017 QS_{33}, 3, 1, 0; 2017 QX_{34}, 3, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 QZ_{34}, 6, 2, 1; 2017 QD_{35}, 3, 1, 0; 2017 QQ_{35}, 3, 1, 0; 2017 QS_{35}, 3, 1, 0; 2017 QU_{35}, 5, 2, 1; 2017 QV_{35}, 3, 1, 0; 2017 QB_{36}, 6, 2, 1; 2017 QF_{36}, 3, 1, 0; 2017 QN_{36}, 3, 1, 0; 2017 QO_{36}, 3, 1, 0; 2017 QP_{36}, 3, 1, 0; 2017 RE, 3, 1, 0; 2017 RG, 2, 1, 0; 2017 RH, 3, 1, 0; 2017 RK, 3, 1, 0; 2017 RS, 2, 1, 0; 2017 RT, 3, 1, 0; 2017 RV, 6, 2, 1; 2017 RA_{1}, 3, 1, 0; 2017 RD_{1}, 6, 1, 0; 2017 RE_{1}, 3, 1, 0; 2017 RG_{1}, 8, 3, 2; 2017 RH_{1}, 5, 2, 1; 2017 RK_{1}, 3, 1, 0; 2017 RL_{1}, 3, 1, 0; 2017 RA_{2}, 3, 1, 0; 2017 RB_{2}, 2, 1, 0; 2017 RL_{2}, 3, 1, 0; 2017 RM_{2}, 3, 1, 0; 2017 RT_{2}, 3, 1, 0; 2017 RV_{2}, 3, 1, 0; 2017 RC_{11}, 3, 1, 0; 2017 RS_{12}, 3, 1, 0; 2017 RF_{14}, 6, 2, 4; 2017 RG_{14}, 3, 1, 0; 2017 RH_{14}, 3, 1, 0; 2017 RL_{14}, 3, 1, 0; 2017 RM_{14}, 3, 1, 0; 2017 RN_{14}, 3, 1, 0; 2017 RP_{14}, 3, 1, 0; 2017 RT_{14}, 3, 1, 0; 2017 RF_{15}, 9, 3, 9; 2017 RG_{15}, 2, 1, 0; 2017 RJ_{15}, 6, 2, 1; 2017 RM_{15}, 5, 2, 1; 2017 RO_{15}, 4, 2, 3; 2017 RT_{15}, 3, 1, 0; 2017 RB_{16}, 3, 1, 0; 2017 RC_{16}, 2, 1, 0; 2017 RE_{16}, 5, 2, 6; 2017 RH_{16}, 3, 1, 0; 2017 RL_{16}, 3, 1, 0; 2017 RQ_{16}, 3, 1, 0; 2017 RR_{16}, 3, 1, 0; 2017 RV_{16}, 3, 1, 0; 2017 RP_{17}, 3, 1, 0; 2017 SQ, 3, 1, 0; 2017 SW_{1}, 5, 2, 1; 2017 SD_{2}, 3, 1, 0; 2017 SO_{2}, 3, 1, 0; 2017 SQ_{2}, 3, 1, 0; 2017 SX_{2}, 3, 1, 0; 2017 SA_{3}, 3, 1, 0; 2017 SS_{3}, 3, 1, 0; 2017 SU_{9}, 3, 1, 0; 2017 SW_{9}, 3, 1, 0; 2017 SA_{10}, 6, 2, 4; 2017 SB_{10}, 3, 1, 0; 2017 SC_{10}, 3, 1, 0; 2017 SM_{10}, 3, 1, 0; 2017 SN_{10}, 3, 1, 0; 2017 SU_{10}, 3, 1, 0; 2017 SA_{11}, 3, 1, 0; 2017 SE_{11}, 3, 1, 0; 2017 SG_{11}, 2, 1, 0; 2017 SK_{11}, 3, 1, 0; 2017 SO_{11}, 3, 1, 0; 2017 SP_{11}, 3, 1, 0; 2017 SQ_{11}, 3, 1, 0; 2017 SR_{11}, 3, 1, 0; 2017 SE_{12}, 6, 2, 1; 2017 SK_{12}, 3, 1, 0; 2017 SL_{12}, 3, 1, 0; 2017 SO_{12}, 3, 1, 0; 2017 SS_{12}, 3, 1, 0; 2017 ST_{12}, 2, 1, 0; 2017 SO_{13}, 3, 1, 0; 2017 SQ_{13}, 3, 1, 0; 2017 SV_{13}, 3, 1, 0; 2017 SW_{13}, 6, 2, 5; 2017 SX_{13}, 6, 2, 5; 2017 SA_{14}, 3, 1, 0; 2017 SB_{14}, 6, 2, 7; 2017 SC_{14}, 3, 1, 0; 2017 SE_{14}, 6, 2, 4; 2017 SJ_{14}, 3, 1, 0; 2017 SF_{17}, 3, 1, 0; 2017 SG_{17}, 3, 1, 0; 2017 SH_{17}, 2, 1, 0; 2017 SL_{17}, 3, 1, 0; 2017 SU_{17}, 5, 2, 1; 2017 SW_{17}, 3, 1, 0; 2017 SX_{17}, 3, 1, 0; 2017 SY_{17}, 2, 1, 0; 2017 SZ_{17}, 3, 1, 0; 2017 SC_{18}, 3, 1, 0; 2017 SL_{18} *, 3, 1, 0; 2017 SP_{18}, 3, 1, 0; 2017 SQ_{18}, 3, 1, 0; 2017 SV_{18}, 3, 1, 0; 2017 SE_{19}, 3, 1, 0; 2017 SH_{19}, 3, 1, 0; 2017 SK_{19}, 3, 1, 0; 2017 SL_{19}, 3, 1, 0; 2017 SM_{19}, 2, 1, 0; 2017 SO_{19}, 3, 1, 0; 2017 SQ_{19}, 3, 1, 0; 2017 SR_{19}, 3, 1, 0; 2017 SU_{19}, 2, 1, 0; 2017 SP_{20}, 3, 1, 0; 2017 SQ_{20}, 2, 1, 0; 2017 ST_{20}, 9, 3, 7; 2017 SU_{20}, 3, 1, 0; 2017 SV_{20}, 3, 1, 0; 2017 SA_{21}, 3, 1, 0; 2017 SB_{21}, 3, 1, 0; (496096), 3, 1, 0; (496226), 3, 1, 0; (496481), 3, 1, 0; (496520), 3, 1, 0; (496521), 3, 1, 0; (496618), 3, 1, 0; (496643), 3, 1, 0; (496656), 3, 1, 0; (496713), 3, 1, 0; (496715), 6, 2, 2255; (496783), 3, 1, 0; *[2086, 626, 6*, 2001/05/26–2017/10/01]*

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 A. Asami, K. Nishiyama
Measurers M. Micheli, S. Urakawa
1.0-m reflector + CCD
Gaia-DR1

2005 GB_{117}, 6, 1, 0; 2012 TC_{4}, 4, 1, 0; 2015 BG_{439}, 8, 2, 10; 2015 EX_{61}, 4, 1, 0; 2015 FU_{141}, 4, 1, 0; *[26, 5, 0*, 2010/01/08–2016/11/03]*

304 Las Campanas Observatory

S. D. Benecchi, Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218, U.S.A. [susank@alum.mit.edu]
S. S. Sheppard, Carnegie Institute of Washington, Dept. of Terrestrial Magnetism, 5241 Broad Branch Road NW, Washington, DC 20015, U.S.A. [sheppard@dtm.ciw.edu]
O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [ovidiu.vaduvescu@gmail.com]

Observers P. L. Schechter, S. S. Sheppard, O. Vaduvescu
Clay 6.5-m telescope + CCD, 1.02-m $f/10.0$ Ritchey-Chrétien + CCD
USNO-B1.0

2010 CO_{69}, 4, 1, 0; *[4, 1, 0*, 2008/10/23]*

309 Cerro Paranal

M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs.it@gmail.com] (15)
M. Altman, Astronomisches Recheninstitut der Universität Heidelberg, Moenchhofstr. 12-14,D-69120 Heidelberg, Germany [maltmann@ari.uni-heidelberg.de] (16)
G. Barentsen, University of Hertfordshire, Hatfield AL10 9AB, United Kingdom [geert@barentsen.be] (17)
M. Mahlke, no details supplied [max.mahlke@rwth-aachen.de] (19)

Observers O. Hainaut, D. Koschny, M. Micheli, M. Altmann, T. Prusti, J. Agarwal, M. Mommert
Measurers M. Micheli, O. Hainaut, C. Barache, S. Bouquillon, T. Carlucci, F. Taris, J. Agarwal
8.2-m VLT + CCD, 2.6-m $f/5.5$ Ritchey-Chrétien + CCD
Gaia-DR1

{15} 2012 TC_4, 5, 3, 9; *[5, 1, 0*, 2017/07/27–2017/08/05]*

{16} 2002 UH_{64}, 10, 1, 0; 2005 UU_{34}, 7, 1, 0; 2005 UH_{80}, 10, 1, 0; 2006 SA_{254}, 10, 1, 0; 2007 CS_{29}, 10, 1, 0; 2008 AV_{138}, 10, 1, 0; 2008 TU_{163}, 10, 1, 0; 2008 VZ_{69}, 10, 1, 0; 2008 VT_{78}, 10, 1, 0; 2009 BB_{33}, 9, 1, 0; 2009 SJ_{129}, 10, 1, 0; 2009 SK_{159}, 10, 1, 0; 2009 UX_{147}, 9, 1, 0; 2009 UE_{159}, 10, 1, 0; 2010 EF_{46}, 10, 1, 0; 2010 JN_{179}, 10, 1, 0; 2010 PN_{63}, 10, 1, 0; 2010 RS_{99}, 9, 1, 0; 2010 TK_{17}, 8, 1, 0; 2011 BC_{112}, 9, 1, 0; 2011 BY_{163}, 8, 1, 0; 2011 ET_{41}, 10, 1, 0; 2011 FE_{102}, 10, 1, 0; 2011 UO_{109}, 10, 1, 0; 2012 CT_{33}, 10, 1, 0; 2012 JF_5, 10, 1, 0; 2012 SE_{64}, 8, 1, 0; 2013 FO_{22}, 9, 1, 0; 2013 PW_1, 7, 1, 0; 2013 SV_{57}, 10, 1, 0; 2014 BC_{59}, 10, 1, 0; 2014 QB_{438}, 10, 1, 0; 2014 WL_{46}, 9, 1, 0; 2015 AS_{279}, 11, 1, 0; 2015 BD_{22}, 10, 1, 0; 2015 BP_{58}, 10, 1, 0; 2015 BJ_{153}, 10, 1, 0; 2015 BA_{175}, 10, 1, 0; 2015 BY_{275}, 10, 1, 0; 2015 BA_{298}, 10, 1, 0; 2015 BT_{339}, 10, 1, 0; 2015 BG_{430}, 10, 1, 0; 2015 BW_{442}, 10, 1, 0; 2015 BB_{443}, 10, 1, 0; 2015 BD_{446}, 10, 1, 0; 2015 BM_{455}, 3, 1, 0; 2015 BR_{494}, 10, 1, 0; 2015 BN_{516}, 5, 1, 0; 2015 BJ_{520}, 18, 1, 0; 2015 CX_{58}, 7, 1, 0; 2015 DG_{225}, 10, 1, 0; 2015 DH_{225}, 10, 1, 0; 2015 FK_{96}, 10, 1, 0; 2015 FM_{279}, 5, 1, 0; 2015 HT_{179}, 10, 1, 0; 2015 ME_{108}, 5, 1, 0; 2015 MK_{131}, 10, 1, 0; 2015 RO_8, 10, 1, 0; 2015 RU_{246}, 5, 1, 0; 2015 TK_{352}, 10, 1, 0; 2015 TF_{353}, 8, 1, 0; 2015 XA_{389}, 9, 1, 0; 2016 AG_{128}, 10, 1, 0; 2016 AJ_{181}, 10, 1, 0; 2016 AX_{195}, 10, 1, 0; 2016 AP_{199}, 9, 1, 0; 2016 CX_{92}, 10, 1, 0; 2016 CL_{267}, 9, 1, 0; 2016 EH_{147}, 10, 1, 0; 2016 GC_{13}, 10, 1, 0; 2016 GP_{96}, 10, 1, 0; 2016 GX_{191}, 10, 1, 0; 2016 HO_5, 7, 1, 0; 2016 LT_{52}, 10, 1, 0; 2016 PL_{79}, 10, 1, 0; 2017 DM_{120}, 10, 1, 0; 2017 FA_{40}, 10, 1, 0; 2017 HU_1, 8, 1, 0; 2017 MY_2, 9, 1, 0; 2017 NG_1, 10, 1, 0; 2017 NM_4, 10, 1, 0; 2017 OG_{17}, 16, 1, 0; 2017 OA_{56}, 10, 1, 0; 2017 PC_{29}, 6, 1, 0; 2017 QB_{12}, 10, 1, 0; 2017 QE_{12}, 10, 1, 0; 2017 QQ_{22}, 6, 1, 0; 2017 QW_{22}, 10, 1, 0; 2017 QS_{32}, 9, 1, 0; 2017 RS_4, 10, 1, 0; (6235), 10, 1, 0; (6654), 10, 1, 0; (7360), 5, 1, 0; (7519), 10, 1, 0; (8239), 4, 1, 0; (10677), 4, 1, 0; (11745), 7, 1, 0; (15340), 10, 1, 0; (17691), 10, 1, 0; (21565), 5, 1, 0; (23056), 10, 1, 0; (23066), 10, 1, 0; (31196), 10, 1, 0; (35644), 10, 1, 0; (40401), 10, 1, 0; (40806), 7, 1, 0; (43841), 10, 1, 0; (45262), 10, 1, 0; (45526), 10, 1, 0; (51601), 10, 1, 0; (53773), 7, 1, 0; (55208), 10, 1, 0; (55847), 10, 1, 0; (60826), 10, 1, 0; (66818), 10, 1, 0; (67008), 10, 1, 0; (68568), 10, 1, 0; (68757), 10, 1, 0; (70268), 6, 1, 0; (72243), 10, 1, 0; (74948), 7, 1, 0; (76243), 10, 1, 0; (79215), 10, 1, 0; (81994), 10, 1, 0; (83197), 10, 1, 0; (84732), 10, 1, 0; (85149), 11, 1, 0; (87297), 7, 1, 0; (89012), 10, 1, 0; (90895), 10, 1, 0; (93600), 10, 1, 0; (96900), 10, 1, 0; (97090), 10, 1, 0; (97449), 5, 1, 0; (100241), 5, 1, 0; (101593), 10, 1, 0; (102224), 10, 1, 0; (104558), 2, 1, 0; (107288), 10, 1, 0; (109006), 10, 1, 0; (109366), 10, 1, 0; (111076), 9, 1, 0; (111583), 10, 1, 0; (112006), 10, 1, 0; (112615), 11, 1, 0; (113099), 10, 1, 0; (118376), 10, 1, 0; (122548), 11, 1, 0; (123339), 10, 1, 0; (125156), 7, 1, 0; (125814), 10, 1, 0; (128158), 10, 1, 0; (128500), 10, 1, 0; (128763), 10, 1, 0; (131290), 10, 1, 0; (131492), 10, 1, 0; (133174), 10, 1, 0; (134274), 10, 1, 0; (134693), 10, 1, 0; (135115), 10, 1, 0; (136081), 10, 1, 0; (136210), 10, 1, 0; (136625), 10, 1, 0; (136814), 10, 1, 0; (137696), 10, 1, 0; (138749), 10, 1, 0; (139199), 10, 1, 0; (140396), 10, 1, 0; (140994), 10, 1, 0; (141968), 10, 1, 0; (142143), 10, 1, 0; (142299), 10, 1, 0; (143409), 11, 1, 0; (143679), 10, 1, 0; (143989), 10, 1, 0; (144443), 10, 1, 0; (145599), 10, 1, 0; (149464), 10, 1, 0; (150923), 10, 1, 0; (151014), 10, 1, 0; (151206), 10, 1, 0; (152051), 10, 1, 0; (152340), 5, 1, 0; (153715), 10, 1, 0; (155363), 7, 1, 0; (158519), 11, 1, 0; (159997), 10, 1, 0; (160192), 10, 1, 0; (160540), 10, 1, 0; (163020), 10, 1, 0; (163431), 8, 1, 0; (164343), 10, 1, 0; (169163), 10, 1, 0; (171914), 10, 1, 0; (172212), 10, 1, 0; (173247), 10, 1, 0; (173842), 11, 1, 0; (175200), 10, 1, 0; (175904), 10, 1, 0; (177219), 6, 1, 0; (178590), 10, 1, 0; (179066), 10, 1, 0; (182401), 10, 1, 0; (184290), 10, 1, 0; (186122), 11, 1, 0; (188281), 10, 1, 0; (188285), 10, 1, 0; (190247), 9, 1, 0; (191852), 10, 1, 0; (191853), 10, 1, 0; (192001), 10, 1, 0; (192246), 10, 1, 0; (192320), 4, 1, 0; (194937), 9, 1, 0; (197069), 10, 1, 0; (201906), 8, 1, 0; (205665), 10, 1, 0; (206810), 10, 1, 0; (209515), 10, 1, 0; (210435), 10, 1, 0; (212459), 10, 1, 0; (213897), 6, 1, 0; (215030), 10, 1, 0; (215389), 6, 1, 0; (215917), 10, 1, 0; (216128), 10, 1, 0; (216720), 6, 1, 0; (217485), 11, 1, 0; (217628), 11, 1, 0; (222709), 11, 1, 0; (222759), 10, 1, 0; (223299), 10, 1, 0; (224556), 10, 1, 0; (224902), 10, 1, 0; (227572), 10, 1, 0; (228259), 5, 1, 0; (233608), 9, 1, 0; (235490), 10, 1, 0; (237045), 8, 1, 0; (241516), 10, 1, 0; (242229), 10, 1, 0; (242410), 9, 1, 0; (247758), 10, 1, 0; (247794), 7, 1, 0; (249250), 10, 1, 0; (249383), 10, 1, 0; (250328), 10, 1, 0; (252664), 10, 1, 0; (255752), 7, 1, 0; (256644), 11, 1, 0; (256832), 6, 1, 0; (257308), 8, 1, 0; (259141), 10, 1, 0; (260572), 10, 1, 0; (260613), 10, 1, 0; (262796), 10, 1, 0; (263315), 10, 1, 0; (264722), 10, 1, 0; (266689), 6, 1, 0; (267384), 6, 1, 0; (268467), 10, 1, 0; (271204), 11, 1, 0; (272694), 8, 1, 0; (275273), 10, 1, 0; (276492), 10, 1, 0; (278507), 10, 1, 0; (284633), 10, 1, 0; (287895), 6, 1, 0; (292358), 8, 1, 0; (294505), 10, 1, 0; (295964), 10, 1, 0; (303967), 10, 1, 0; (303982), 10, 1, 0; (304003), 10, 1, 0; (304032), 5, 1, 0; (307146), 9, 1, 0; (307230), 9, 1, 0; (307974), 10, 1, 0; (317548), 8, 1, 0; (318630), 10, 1, 0; (319606), 10, 1, 0; (320347), 10, 1, 0; (320423), 11, 1, 0; (320429), 11, 1, 0; (320845), 10, 1, 0; (323393), 11, 1, 0; (324998), 10, 1, 0; (325073), 10, 1, 0; (326928), 9, 1, 0; (327328), 10, 1, 0; (328186), 10, 1, 0; (335595), 10, 1, 0; (337643), 10, 1, 0; (341537), 10, 1, 0; (343371), 10, 1, 0; (361546), 10, 1, 0; (364127), 10, 1, 0; (364657), 10, 1, 0; (373310), 10, 1, 0; (375828), 10, 1, 0; (376155), 10, 1, 0; (376596), 9, 1, 0; (377852), 7, 1, 0; (378716), 10, 1, 0; (379460), 11, 1, 0; (381191), 10, 1, 0; (383804), 10, 1, 0; (383857), 10, 1, 0; (384160), 9, 1, 0; (384422), 10, 1, 0; (390173), 10, 1, 0; (395286), 9, 1, 0; (410782), 10, 1, 0; (413177), 10, 1, 0; (413411), 10, 1, 0; (416241), 5, 1, 0; (416423), 10, 1, 0; (419864), 10, 1, 0; (421319), 10, 1, 0; (423445), 10, 1, 0; (423817), 7, 1, 0; (423977), 10, 1, 0; (424269), 10, 1, 0; (424657), 10, 1, 0; (427675), 10, 1, 0; (428206), 10, 1, 0; (429561), 10, 1, 0; (429889), 10, 1, 0; (431150), 10, 1, 0; (432360), 10, 1, 0; (433197), 10, 1, 0; (433591), 10, 1, 0; (435365), 10, 1, 0; (435880), 10, 1, 0; (437768), 10, 1, 0; (457615), 11, 1, 0; (459324), 7, 1, 0; (462033), 10, 1, 0; (463250), 10, 1, 0; (465304), 7, 1, 0; (465582), 10, 1, 0; (466513), 10, 1, 0; (467645), 10, 1, 0; (468347), 10, 1, 0; (473863), 10, 1, 0; (490860), 9, 1, 0; (492196), 10, 1, 0; (492293), 9, 1, 0; *[3276, 348, 0*, 2015/01/16–2017/09/29]*

{17} 2017 PC_{29}, 1, 1, 0; *[1, 1, 0*, 2015/01/24]*

{19} 2016 GP_{217}, 4, 1, 0; *[4, 1, 0*, 2012/07/05]*

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

2014 YB_7, 3, 1, 0; 2015 MH_{131}, 4, 1, 0; *[7, 2, 0*, 1998/02/23–1998/08/22]*

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

2015 GT_4, 3, 1, 0; *[3, 1, 0*, 2004/02/17]*

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
2015 AN_{131}, 3, 1, 0; *[3, 1, 0*, 2002/02/15]*

372 Geisei
T. Seki, Kamimachi 2-9-35, Kochi-shi, Kochi-ken 780, Japan [T-seki@ma7.seikyou.ne.jp]
Observers T. Seki, S. Shimomoto
Measurers H. Sato, T. Seki, S. Shimomoto
0.70-m $f/10$ reflector + CCD + $f/5$ focal reducer
UCAC-4, GSC-ACT, USNO-B1.0
(9964), 2, 1, 0; (11878), 2, 1, 0; (18609), 2, 1, 0; *[6, 3, 0*, 2017/08/31–2017/09/28]*

413 Siding Spring
R. H. McNaught, Research School of Astronomy and Astrophysics, Siding Spring Observatory, Coonabarabran, NSW 2357, Australia [rmn@aaocbn.aao.gov.au] (1)
G. J. Garradd, P.O. Box 157, Tamworth, NSW 2340, Australia [loomberah@ozemail.com.au] (2)
{1} 2015 BM_{66}, 3, 1, 0; 2015 GL_1, 4, 1, 0; 2017 KU_{12}, 2, 1, 0; (496800), 3, 1, 0; *[12, 4, 0*, 1995/10/19–2003/07/03]*

{2} 2015 DG_{36}, 3, 1, 0; *[3, 1, 0*, 2002/03/06]*

461 University of Szeged, Piszkéstető Stn. (Konkoly)
K. Sárneczky, P.O. Box 406, H-6701 Szeged, Hungary [sky@titan.physx.u-szeged.hu]
Observers A. Sódor, K. Sárneczky, R. Szakáts, A. Ordasi, B. Cseh, B. Ignácz, R. Könyves-Tóth
Measurers K. Sárneczky, M. Micheli
0.60-m Schmidt + CCD
USNO-B1.0, Gaia-DR1
2002 FA_{42}, 3, 1, 0; 2010 JN_{179}, 4, 1, 0; 2012 EO_{18}, 3, 1, 0; 2012 TC_4, 3, 1, 0; 2012 TH_{31}, 5, 1, 0; 2014 FT_{72}, 3, 1, 0; 2014 HB_{28}, 7, 1, 0; 2014 WJ_{106}, 3, 1, 0; 2015 BX_{163}, 3, 1, 0; 2015 BT_{309}, 3, 1, 0; 2015 BE_{311}, 3, 1, 0; 2015 FD_{352}, 3, 1, 0; 2015 GR_{11}, 3, 1, 0; 2015 HC_{103}, 3, 1, 0; 2015 UR_{84}, 7, 1, 0; 2016 AG_{128}, 3, 1, 0; 2016 AG_{186}, 3, 1, 0; 2016 DD_{31}, 3, 1, 0; 2016 PN_{79}, 3, 1, 0; 2016 RJ_{42}, 4, 1, 0; 2016 SH_{33}, 7, 1, 0; 2016 SZ_{34}, 8, 1, 0; 2016 TT_{72}, 6, 1, 0; 2017 KH_{32}, 9, 2, 3; 2017 OK_{20}, 3, 1, 0; 2017 OO_{33}, 3, 1, 0; 2017 OW_{51}, 2, 1, 0; *[110, 27, 0*, 2010/10/31–2016/10/26]*

463 Sommers-Bausch Observatory, Boulder
K. Gleason, 408 UCB, Boulder, CO 80309, U.S.A. [keithg@lyra.colorado.edu]
Observers D. H. Cheon, M. Turcotte-Seavey, K. Xiong, M. Wang, E. Nevidomsky, V. Colicci, D. Li, E. Silver, L. Zhou, G. Jaswal, K. Merrill, A. Sun, E. Romashkova, J. Stone, J. H. Choi, A. Heyer, C. You, S. Li, A. Pan, G. Staimer, B. Khoury, P. Yao, C. Zanoletti, T. Douglas, H. Rho, J. Tao, K. Leung, G. Meyer, S. Zhang, P. Nagarajan, E. Villegas, X. Zhang, O. Lorch, Y. Ma, E. Zhu
0.51-m $f/6.8$ reflector + CCD
USNO-A2.0
(1980), 13, 4, 22; (6063), 4, 2, 4; (20460), 11, 3, 8; (138846), 13, 5, 19; (142561), 11, 5, 18; (190166), 15, 5, 22; *[67, 6, 0*, 2017/06/29–2017/07/24]*

474 Mount John Observatory, Lake Tekapo
A. C. Gilmore, Mt. John University Observatory, P.O. Box 56, NZ-8770 Lake Tekapo, New Zealand [a.gilmore@phys.canterbury.ac.nz]
Observers A. C. Gilmore, P. M. Kilmartin
1.0-m $f/7.7$ reflector + CCD
Gaia-DR1, PPMXL
2015 FO_{35}, 3, 1, 0; 2015 ME_{108}, 4, 1, 0; 2017 JU_2, 5, 1, 0; 2017 NU_6, 2, 1, 0; 2017 OX_{18}, 4, 1, 0; 2017 OT_{68}, 3, 1, 0; 2017 QE_{17}, 3, 1, 0; 2017 QT_{17}, 3, 1, 0; 2017 QK_{18}, 4, 1, 0; 2017 QJ_{33}, 3, 1, 0; 2017 QW_{34}, 3, 1, 0; 2017 QX_{34}, 3, 1, 0; 2017 QA_{35}, 3, 1, 0; 2017 RX_2, 4, 1, 0; 2017 RC_{14}, 3, 1, 0; 2017 RE_{14}, 3, 1, 0; 2017 RT_{14}, 3, 1, 0; 2017 RU_{14}, 3, 1, 0; 2017 RA_{15}, 3, 1, 0; 2017 RW_{15}, 4, 1, 0; 2017 RB_{16}, 3, 1, 0; 2017 RG_{16}, 4, 1, 0; 2017 RJ_{16}, 6, 2, 3; 2017 RK_{16}, 4, 1, 0; 2017 RT_{16}, 3, 1, 0; 2017 SW_1, 4, 1, 0; 2017 SX_1, 4, 1, 0; 2017 SF_2, 4, 1, 0; 2017 SG_2, 4, 1, 0; 2017 SM_2, 4, 1, 0; 2017 SR_2, 14, 1, 0; *[120, 31, 0*, 2015/03/19–2017/09/20]*

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
2012 DH_{99}, 3, 1, 0; 2012 GS_{35}, 3, 1, 0; 2013 FW_{28}, 3, 1, 0; 2013 PG_{75}, 3, 1, 0; 2013 RV_{98} *, 3, 1, 0; 2013 RY_{98} *, 3, 1, 0; 2014 TB_{65}, 3, 1, 0; 2014 UH_{28}, 3, 1, 0; 2014 UM_{134}, 3, 1, 0; 2015 BA_{19}, 2, 1, 0; 2015 BH_{293}, 3, 1, 0; 2016 FG_{26}, 3, 1, 0; 2017 RX_6, 3, 1, 0; *[38, 13, 2*, 2009/02/20–2013/09/03]*

509 La Seyne sur Mer
B. Candela, 193 Chemin des Eaux, 83500 La Seyne sur Mer, France [b-candela@wanadoo.fr]
0.25-m $f/6.3$ Schmidt-Cassegrain + CCD
GSC-ACT, UCAC-4, USNO-A2.0
(28), 3, 1, 0; (46), 32, 2, 5; (80), 7, 1, 0; (97), 18, 2, 17; (124), 22, 1, 0; (171), 17, 1, 0; (173), 21, 2, 17; (176), 3, 1, 0; (181), 3, 1, 0; (230), 17, 1, 0; (237), 9, 1, 0; (374), 17, 2, 9; (419), 1, 1, 0; (455), 12, 1, 0; (480), 23, 2, 5; (482), 4, 1, 0; (485), 9, 1, 0; (537), 4, 1, 0; (686), 10, 1, 0; (1246), 10, 1, 0; *[242, 20, 0*, 2017/06/06–2017/07/01]*

511 Haute Provence
J. E. Arlot, IMCCE, Observatoire de Paris, 61 Avenue de l'Observatoire, F-75014 Paris, France [arlot@bdl.fr]
Observers L. Maquet, A. Egal, S. Favard, H. Garcia, A. Fougeyrollas, J. P. Sardoulet, C. Taledo, E. Ferrand, A. Quaranta, R. Lavoipierre, J. J. Breton, C. Gaillard, F. Spoto, M. Dennefeld, W. Brzezinska, M. Nowak, W. Thuillot, N. Thouvenin, B. Carry, P. David, P. Tanga
Measurers D. Lecuyer, V. Le Flem, A. Kassis, K. Kitouni, L. Maquet, A. Egal, S. Favard, H. Garcia, A. Fougeyrollas, J. P. Sardoulet, C. Taledo, E. Ferrand, A. Quaranta, R. Lavoipierre, J. J. Breton, C. Gaillard, W. Thuillot, S. Bouquillon, F. Taris, T. Carlucci, C. Barache
1.20-m $f/6$ reflector + CCD
UCAC-4, Gaia-DR1, PPMXL
2004 FM_{23}, 5, 1, 0; 2017 OD, 13, 2, 1; 2017 ON_1, 9, 1, 0; 2017 OO_1, 15, 1, 0; 2017 OD_7, 10, 1, 0; 2017 OH_7, 30, 1, 0; 2017 OK_7, 8, 1, 0; 2017 OL_{18}, 14, 1, 0; 2017 OT_{18}, 7, 1, 0; 2017 SM_{12}, 13, 1, 0; 2017 SQ_{12}, 10, 1, 0; 2017 SS_{12}, 10, 1, 0; 2017 ST_{14}, 14, 1, 0; 2017 SP_{17}, 10, 1, 0; (118684), 3, 1, 0; (148769), 2, 1, 0; (168760), 22, 1, 0; (220556), 3, 1, 0; (341805), 3, 1, 0; (377748), 10, 1, 0; (430235), 10, 1, 0; *[221, 21, 0*, 2009/08/24–2017/09/28]*

557 Ondřejov
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]
Observers P. Kušnirák, K. Hornoch, J. Vrastil, H. Kucakova

0.65-m f/3.6 reflector + CCD
UCAC-3

2016 FS_{38}, 2, 1, 0; 2016 GG_{127}, 5, 1, 0; (3868), 14, 4, 8; (4607), 10, 2, 1; (7344), 3, 1, 0; (10208), 14, 3, 6; (20460), 5, 1, 0; (22308), 5, 1, 0; (23621), 5, 1, 0; (32039), 22, 5, 16; (38088), 2, 1, 0; (66391), 13, 3, 4; (207361), 3, 1, 0; (253155), 3, 1, 0; *[106, 14, 0*, 2000/02/03–2017/08/31]*

566 Haleakala-NEAT/GEODSS

R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
Observers F. Helin, S. Pravdo, K. J. Lawrence, D. L. Rabinowitz
Measurer R. J. Bouma

1-m f/2.2 Ritchey-Chrétien + CCD, 1.0-m reflector + CCD
PPMXL, USNO-B1.0

2001 QB_{52}, 2, 1, 0; 2001 XX_{12}, 9, 3, 19; 2008 CA_{30}, 3, 1, 0; 2011 AK_{24}, 3, 1, 0; 2011 QO_{40}, 2, 1, 0; 2013 EC_{111}, 3, 1, 0; 2013 ER_{126}, 2, 1, 0; 2013 QT_{34}, 3, 1, 0; 2015 NP_{24}, 3, 1, 0; (1074), 5, 2, 33; (25933), 3, 1, 0; (33803), 3, 1, 0; (113497), 3, 1, 0; (338019), 3, 1, 0; *[47, 14, 0*, 1996/02/20–1998/11/16]*

568 Mauna Kea

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu] (2)
C. Veillet, Canada-France-Hawaii Telescope Corporation, P.O. Box 1597, Kamuela, HI 96743, U.S.A. [veillet@cfht.hawaii.edu] (3)
K. J. Meech, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [meech@nihoa.ifa.hawaii.edu] (7)
D. D. Balam, Dominion Astrophysical Observatory, 5071 West Saanich Road, Victoria, BC, Canada [cosmos@uvic.ca] (9)
P. A. Wiegert, Physics and Astronomy Department, University of Western Ontario, London N6A 3K7, Canada [pwiegert@uwo.ca] (19)
A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [boattini@ias.rm.cnr.it] (20)
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs@tiscali.it] (29)
J.-M. Petit, no details supplied (41)
G. Hasinger, no details supplied [hasinger@ifa.hawaii.edu] (43)
A. N. Heinze, no details supplied [ariheinze@hotmail.com] (45)
Observers R. J. Wainscoat, C. Wipper, L. Wells, K. J. Meech, J. Kleyna, D. Woodworth, S. Boissier, M. Micheli, E. Hu, y. Li, Y. Li, F. Yoshida, C. Crowder, J. V. Keane, M. T. Bannister, J. J. Kavelaars, B. J. Gladman, J.-M. Petit, T. Burdullis, T. Terai, M. Brown, K. Batygin
Measurers M. Micheli, R. J. Wainscoat, J. Kleyna, M.-T. Hui, R. Weryk, D. J. Tholen, g. Hasinger, M. Tanaka, G. Hasinger, S. D. J. Gwyn, Y.-T. Chen, M. Alexandersen, F. Yoshida, N. Yasuda, T. Terai

3.6-m Canada-France-Hawaii Telescope + CCD, 8.2-m Subaru Telescope + CCD
Gaia-DR1, PPMXL, UCAC-4

{19} 2003 SA_{29}, 3, 1, 0; 2010 RP_{111}, 3, 1, 0; 2010 VJ_{225}, 3, 1, 0; 2011 BK_{157}, 10, 1, 0; 2014 SZ_{215}, 3, 1, 0; 2014 UO_{201}, 4, 2, 1; 2014 WN_{46}, 3, 1, 0; 2015 BH_{8}, 3, 1, 0; 2015 BB_{16}, 3, 1, 0; 2015 BC_{18}, 3, 1, 0; 2015 BK_{98}, 3, 1, 0; 2015 BP_{129}, 3, 1, 0; 2015 BU_{321}, 4, 2, 1; 2015 FR_{348}, 4, 2, 1; 2015 GH_{43}, 3, 1, 0; 2015 JO_{8}, 11, 1, 0; 2015 VZ_{41}, 3, 1, 0; 2016 CZ_{130}, 4, 2, 1; 2016 FE_{4}, 3, 1, 0; 2016 GP_{173}, 3, 1, 0; 2017 OL_{55}, 3, 1, 0; *[82, 21, 0*, 2003/03/24–2008/01/06]*

{20} 2005 TJ_{198} *, 3, 1, 0; 2008 RM_{18}, 3, 1, 0; 2015 BJ_{27}, 3, 1, 0; 2015 BG_{72}, 6, 2, 14; 2015 BP_{129}, 3, 1, 0; 2015 BW_{147}, 3, 1, 0; 2015 BY_{439}, 3, 1, 0; 2015 BG_{459}, 3, 1, 0; 2015 BB_{503}, 3, 1, 0; 2015 EH_{72}, 3, 1, 0; 2015 XD_{385}, 3, 1, 0; 2016 BL_{39}, 3, 1, 0; 2016 FH_{52}, 3, 1, 0; 2017 OF_{61}, 3, 1, 0; 2017 QM_{24}, 3, 1, 0; (496462), 3, 1, 0; *[51, 16, 1*, 2005/10/07–2005/12/03]*

{2} 2008 YS_{137}, 3, 1, 0; 2015 BY_{264}, 2, 1, 0; 2015 BM_{356}, 3, 1, 0; 2015 DR_{112}, 4, 1, 0; 2016 FS_{36}, 2, 1, 0; 2017 OU_{67}, 3, 1, 0; *[17, 6, 0*, 2002/07/09–2017/07/29]*

{3} 2012 SZ_{20}, 2, 1, 0; 2015 DT_{202}, 2, 1, 0; *[4, 2, 0*, 1997/06/07–1999/02/08]*

{7} 2014 YK_{51}, 2, 1, 0; 2015 BT_{118}, 2, 1, 0; 2016 BL_{44}, 2, 1, 0; *[6, 3, 0*, 2003/07/06–2004/09/17]*

{9} 2014 WF_{365}, 3, 1, 0; 2015 HN_{176}, 3, 1, 0; *[6, 2, 0*, 2006/11/27–2007/10/11]*

{41} 2001 FK_{185}, 9, 3, 375; 2013 EM_{149}, 2, 1, 0; 2013 GO_{136}, 2, 1, 0; 2013 GQ_{136}, 4, 2, 469; 2013 GR_{136}, 3, 2, 5; 2013 GS_{136}, 2, 2, 5; 2013 GT_{136}, 14, 13, 712; 2013 GU_{136}, 11, 9, 1510; 2013 GV_{136}, 9, 7, 387; 2013 GW_{136}, 4, 2, 2; 2013 GX_{136}, 2, 2, 799; 2013 GY_{136}, 4, 2, 2; 2013 GZ_{136}, 12, 9, 795; 2013 GD_{137}, 8, 7, 382; 2013 GE_{137}, 1, 1, 0; 2013 GH_{137}, 3, 2, 1188; 2013 GJ_{137}, 3, 2, 774; 2013 GK_{137}, 8, 6, 383; 2013 GL_{137}, 2, 1, 0; 2013 GN_{137}, 10, 8, 712; 2013 GO_{137}, 3, 1, 0; 2013 GP_{137}, 3, 2, 22; 2013 GQ_{137}, 7, 4, 384; 2013 GR_{137}, 2, 1, 0; 2013 GS_{137}, 2, 1, 0; 2013 GT_{137}, 3, 3, 116; 2013 GU_{137}, 3, 3, 116; 2013 GV_{137}, 7, 7, 306; 2013 GW_{137}, 4, 3, 801; 2013 GX_{137}, 5, 4, 796; 2013 GY_{137}, 3, 2, 5; 2013 GZ_{137}, 2, 1, 0; 2013 GA_{138}, 2, 2, 3; 2013 GC_{138}, 2, 2, 7; 2013 GF_{138}, 4, 2, 383; 2013 GG_{138}, 3, 3, 365; 2013 HR_{156}, 4, 3, 362; 2013 HT_{156}, 4, 4, 273; 2013 JD_{64}, 3, 3, 297; 2013 JE_{64}, 12, 8, 1040; 2013 JF_{64}, 5, 4, 675; 2013 JG_{64}, 6, 6, 649; 2013 JH_{64}, 6, 6, 985; 2013 JJ_{64}, 6, 6, 1071; 2013 JK_{64}, 3, 1, 0; 2013 JL_{64}, 10, 7, 597; 2013 JM_{64}, 7, 7, 1126; 2013 JN_{64}, 6, 6, 930; 2013 JO_{64}, 2, 2, 1070; 2013 JQ_{64}, 4, 3, 300; 2013 JR_{64}, 3, 3, 686; 2013 JZ_{64}, 2, 2, 1070; 2013 JB_{65}, 2, 1, 0; 2013 JC_{65}, 3, 2, 384; 2013 JE_{65}, 1, 1, 0; 2013 JF_{65}, 2, 1, 0; 2013 JG_{65}, 4, 2, 269; 2013 JH_{65}, 3, 3, 439; 2013 JJ_{65}, 2, 2, 5; 2013 JK_{65}, 2, 2, 5; 2013 JL_{65}, 3, 3, 826; 2013 JM_{65}, 6, 6, 57; 2013 JN_{65}, 11, 10, 361; 2013 JO_{65}, 6, 6, 830; 2013 JP_{65}, 3, 3, 297; 2013 JR_{65}, 1, 1, 0; 2013 JS_{65}, 1, 1, 0; 2013 JT_{65}, 1, 1, 0; (443843), 5, 2, 769; (444018), 3, 3, 264; (444025), 5, 3, 375; (469442), 9, 1, 0; *[324, 72, 0*, 2013/02/08–2017/05/30]*

{43} 2002 UZ_{66}, 15, 2, 1; 2004 GD_{54}, 9, 1, 0; 2005 TD_{47}, 10, 1, 0; 2006 AV_{76}, 18, 2, 2; 2006 SE_{313}, 10, 1, 0; 2008 HD_{58}, 70, 5, 4; 2008 PT_{3}, 15, 1, 0; 2009 BB_{168}, 9, 1, 0; 2009 RY_{28}, 40, 2, 3; 2009 SN_{160}, 14, 1, 0; 2011 FP_{148}, 16, 1, 0; 2011 HA_{98}, 12, 1, 0; 2013 RV_{70}, 14, 2, 6; 2014 WQ_{480}, 17, 2, 5; 2015 AB_{234}, 57, 3, 3; 2015 AC_{234}, 25, 2, 1; 2015 AD_{234}, 56, 3, 3; 2015 AE_{234}, 15, 1, 0; 2015 AF_{234}, 10, 1, 0; 2015 AH_{234}, 15, 1, 0; 2015 AJ_{234}, 24, 2, 3; 2015 AK_{234}, 22, 2, 2; 2015 AP_{234}, 13, 1, 0; 2015 AW_{239}, 50, 3, 3; 2015 AE_{241}, 16, 2, 1; 2015 AA_{262}, 39, 4, 5; 2015 AP_{262}, 18, 2, 6; 2015 BT_{2}, 25, 2, 1; 2015 BH_{20}, 43, 2, 1; 2015 BG_{517}, 23, 2, 5; 2015 BH_{517}, 14, 1, 0; 2015 BJ_{517}, 10, 1, 0; 2015 BK_{517}, 23, 2, 5; 2015 BL_{517}, 10, 1, 0; 2015 BN_{517}, 15, 1, 0; 2015 BO_{517}, 23, 2, 5; 2015 BP_{517}, 23, 2, 5; 2015 BQ_{517}, 11, 1, 0; 2015 BR_{517}, 25, 2, 5; 2015 BS_{517}, 15, 1, 0; 2015 BT_{517}, 3, 1, 0; 2015 BU_{517}, 1, 1, 0; 2015 BV_{517}, 12, 2, 3; 2015 BW_{517}, 26, 2, 5; 2015 BX_{517}, 23, 2, 1; 2015 BZ_{517}, 47, 4, 70; 2015 BZ_{521} *, 22, 2, 1; 2015 BA_{522} *, 17, 2, 1; 2015 BB_{522} *, 20, 2, 1; 2015 BC_{522} *, 19, 2, 1; 2015 BD_{522} *, 22, 2, 1; 2015 BE_{522} *, 21, 2, 1; 2015 BF_{522} *, 22, 2, 1; 2015 BG_{522} *, 22, 2, 1; 2015 BH_{522} *, 23, 2, 2; 2015 BJ_{522} *, 22, 2, 1; 2015 BK_{522} *, 19, 2, 1; 2015 BL_{522} *, 20, 2, 1; 2015 BM_{522} *, 30, 3, 4; 2015 BN_{522} *, 18, 2, 1; 2015 BO_{522} *, 16, 2, 1; 2015 BP_{522} *, 21, 2, 1; 2015 BQ_{522} *, 21, 2, 3; 2015 BR_{522} *, 24, 2, 1; 2015 BS_{522} *, 39, 3, 3; 2015 BT_{522} *, 24, 2, 1; 2015 BU_{522} *, 20, 2, 1; 2015 BV_{522} *, 34, 3, 4; 2015 BW_{522} *, 45, 3, 3; 2015 BX_{522} *, 30, 3, 3; 2015 BY_{522} *, 29, 3, 5; 2015 BZ_{522} *, 21, 2, 1; 2015 BA_{523} *, 26, 2, 1; 2015 BB_{523} *, 21, 2, 1; 2015 BC_{523} *, 38, 4, 5; 2015 BD_{523} *, 62, 3, 2; 2015 BE_{523} *, 24, 2, 5; 2015 BF_{523} *, 32, 3, 5; 2015 BG_{523} *, 47, 4, 5; 2015 BH_{523} *, 20, 2, 5; 2015 BJ_{523} *, 17, 2, 5; 2015 BK_{523} *, 17, 2, 1; 2015 BL_{523} *, 46, 3, 2; 2015 BM_{523} *, 51, 3, 5; 2015 BN_{523} *, 32, 3, 5; 2015 BO_{523} *, 46, 4, 5; 2015 BP_{523} *, 54, 3, 5; 2015 BQ_{523} *, 19, 2, 4; 2015 BR_{523} *, 20, 2, 4; 2015 BS_{523} *, 19, 2, 4; 2015 BT_{523} *, 60, 4, 3; 2015 BU_{523} *, 63, 4, 5; 2015 BV_{523} *, 25, 2, 5; 2015 BW_{523} *, 31, 2, 4; 2015 BX_{523} *, 28, 3, 4; 2015 BY_{523} *, 21, 2, 4; 2015 BZ_{523} *, 24, 2, 4; 2015 BA_{524} *, 26, 3, 4; 2015 BB_{524} *, 16, 3, 4; 2015 BC_{524} *, 23, 2, 3; 2015 BD_{524} *, 29, 3, 4; 2015 BE_{524} *, 27, 3, 5; 2015 BF_{524} *, 23, 2, 1; 2015 BG_{524} *, 53, 4, 5; 2015 BH_{524} *, 18, 2, 1; 2015 BJ_{524} *, 20, 2, 3; 2015 BK_{524} *, 50, 3, 3; 2015 BL_{524} *, 21, 2, 1; 2015 BM_{524} *, 17, 2, 1; 2015 BN_{524} *, 68, 5, 5; 2015 BO_{524} *, 16, 2, 1; 2015 BP_{524} *, 18, 2, 1; 2015 BQ_{524} *, 19, 2, 1; 2015 BR_{524} *, 34, 3, 4; 2015 BS_{524} *, 52, 4, 5; 2015 BT_{524} *, 64, 4, 3; 2015 BU_{524} *, 36, 4, 4; 2015 BV_{524} *, 13, 2, 1; 2015 BW_{524} *, 36, 4, 5; 2015 BX_{524} *, 26, 3, 4; 2015 BY_{524} *, 34, 3, 2; 2015 BZ_{524} *, 16, 2, 2; 2015 BA_{525} *, 14, 2, 2; 2015 BB_{525} *, 26, 3, 4; 2015 BC_{525} *, 24, 3, 4; 2015 BD_{525} *, 15, 2, 4; 2015 BE_{525} *, 16, 2, 4; 2015 BF_{525} *, 20, 2, 2; 2015 BG_{525} *, 29, 3, 2; 2015 BH_{525} *, 20, 2, 2; 2015 BJ_{525} *, 27, 3, 4; 2015 BK_{525} *, 26, 3, 3; 2015 BL_{525} *, 17, 2, 3; 2015 BM_{525} *, 13, 2, 4; 2015 BN_{525} *, 33, 2, 1; 2015 BO_{525} *, 57, 4, 3; 2015 BP_{525} *, 32, 2, 1; 2015 BQ_{525} *, 46, 4, 3; 2015 BR_{525} *, 14, 2, 1; 2015 BS_{525} *, 33, 3, 2; 2015 BT_{525} *, 19, 2, 1; 2015 BU_{525} *, 17, 2, 1; 2015 BV_{525} *, 28, 3, 2; 2015 BW_{525} *, 17, 2, 2; 2015 BX_{525} *, 40, 4, 3; 2015 BY_{525} *, 17, 2, 1; 2015 BZ_{525} *, 16, 2, 2; 2015 BA_{526} *, 29, 3, 2; 2015 BB_{526} *, 26, 3, 2; 2015 BC_{526} *, 18, 2, 1; 2015 BD_{526} *, 15, 2, 1; 2015 BE_{526} *, 16, 2, 1; 2015 BF_{526} *, 15, 2, 1; 2015 BG_{526} *, 18, 3, 4; 2015 BH_{526} *, 16, 2, 1; 2015 BJ_{526} *, 19, 2, 1; 2015 BK_{526} *, 14, 2, 1; 2015 BL_{526} *, 15, 2, 1; 2015 BM_{526} *, 17, 2, 1; 2015 BN_{526} *, 15, 2, 1; 2015 BO_{526} *, 19, 2, 1; 2015 BP_{526} *, 16, 2, 1; 2015 BQ_{526} *, 16, 2, 1; 2015 BR_{526} *, 20, 2, 1; 2015 BS_{526} *, 16, 2, 1; 2015 BT_{526} *, 16, 2, 1; 2015 BU_{526} *, 16, 2, 1; 2015 BV_{526} *, 15, 2, 6; 2015 BW_{526} *, 19, 2, 6; 2015 BX_{526} *, 17, 2, 6; 2015 BT_{528} *, 17, 2, 3; 2015 BU_{528} *, 13, 2, 3; 2016 HL_{10}, 41, 4, 5;

2017 OV_{48}, 33, 3, 2; (9253), 50, 3, 2; (14061), 15, 1, 0; (17479), 11, 1, 0; (21246), 14, 1, 0; (35641), 52, 4, 3; (39299), 10, 1, 0; (44146), 80, 5, 5; (45752), 6, 1, 0; (50566), 18, 2, 1; (60408), 21, 2, 6; (74963), 10, 1, 0; (83590), 14, 1, 0; (87729), 14, 1, 0; (101347), 21, 2, 1; (102543), 6, 1, 0; (104589), 23, 3, 5; (112190), 17, 2, 1; (133300), 14, 1, 0; (138388), 11, 1, 0; (146293), 22, 3, 3; (157921), 14, 1, 0; (161623), 8, 1, 0; (169171), 14, 1, 0; (189253), 12, 1, 0; (191151), 38, 3, 2; (199571), 10, 1, 0; (226797), 34, 3, 3; (229251), 15, 1, 0; (232527), 35, 3, 3; (236039), 10, 1, 0; (259429), 23, 2, 5; (264569), 13, 1, 0; (275550), 10, 1, 0; (275670), 9, 1, 0; (275776), 46, 3, 4; (276099), 57, 3, 2; (279237), 39, 3, 2; (280213), 7, 1, 0; (280704), 14, 1, 0; (287659), 22, 2, 1; (287764), 10, 1, 0; (291960), 14, 1, 0; (322622), 28, 3, 4; (323358), 14, 1, 0; (327690), 30, 3, 4; (329805), 11, 1, 0; (331756), 11, 1, 0; (332698), 15, 1, 0; (333242), 14, 1, 0; (339451), 15, 1, 0; (341371), 12, 1, 0; (343471), 19, 2, 1; (343509), 12, 2, 1; (350028), 43, 2, 2; (366359), 9, 1, 0; (369500), 9, 1, 0; (371106), 25, 3, 3; (372568), 9, 1, 0; (373435), 12, 1, 0; (374689), 22, 2, 1; (376499), 32, 3, 2; (376797), 15, 1, 0; (376980), 14, 1, 0; (377440), 12, 1, 0; (378087), 14, 1, 0; (379074), 16, 1, 0; (379299), 21, 2, 1; (379858), 60, 3, 2; (382769), 9, 1, 0; (421392), 12, 1, 0; (424942), 26, 2, 5; (425947), 6, 1, 0; (433361), 49, 3, 4; (436349), 49, 5, 5; (463357), 9, 1, 0; (469186), 21, 2, 1; (478438), 16, 1, 0; *[5917, 251, 126*, 2014/11/18–2015/01/27]*

{45} 2015 BN_{521}, 8, 1, 0; *[8, 1, 0*, 2017/04/24]*

{29} 2000 YG_{29}, 3, 1, 0; 2002 ET_{11}, 3, 1, 0; 2004 RY_{10}, 8, 1, 0; 2005 YA_{19}, 3, 1, 0; 2006 EW_{73}, 3, 1, 0; 2006 UZ_{16}, 3, 1, 0; 2008 QE_{14}, 3, 1, 0; 2013 HN_{37}, 3, 1, 0; 2013 PJ_{67}, 6, 1, 0; 2014 SJ_{143}, 3, 1, 0; 2014 SW_{143}, 3, 1, 0; 2014 TW_{57}, 3, 1, 0; 2015 AF_{206}, 3, 1, 0; 2015 CN_{62}, 3, 1, 0; 2015 TS_{350}, 3, 1, 0; 2016 AU_{130}, 3, 1, 0; 2017 JB_6, 6, 2, 25; 2017 MZ_4, 8, 2, 33; 2017 MB_7, 3, 1, 0; 2017 NV_5, 3, 1, 0; 2017 NW_5, 3, 1, 0; 2017 NM_6, 3, 1, 0; 2017 NO_6, 1, 1, 0; 2017 NQ_6, 3, 1, 0; 2017 NR_6, 3, 1, 0; 2017 NS_6, 3, 1, 0; 2017 NT_6, 3, 1, 0; 2017 OA, 3, 1, 0; 2017 OK_1, 3, 1, 0; 2017 OF_7, 3, 1, 0; 2017 OG_7, 3, 1, 0; 2017 OJ_7, 3, 1, 0; 2017 OM_{18}, 6, 2, 3; 2017 OP_{18}, 3, 1, 0; 2017 OQ_{18}, 4, 1, 0; 2017 OU_{18}, 2, 1, 0; 2017 OV_{18}, 3, 1, 0; 2017 OW_{18}, 3, 1, 0; 2017 OX_{18}, 3, 1, 0; 2017 OE_{19}, 3, 1, 0; 2017 OJ_{19}, 6, 2, 3; 2017 OK_{19}, 6, 2, 3; 2017 OL_{19}, 6, 2, 3; 2017 OM_{19}, 3, 1, 0; 2017 ON_{19}, 3, 1, 0; 2017 OO_{19}, 3, 1, 0; 2017 OP_{19}, 3, 1, 0; 2017 OQ_{19}, 3, 1, 0; 2017 OW_{19}, 3, 1, 0; 2017 OZ_{19}, 6, 2, 3; 2017 OA_{20}, 6, 2, 3; 2017 OB_{20}, 6, 2, 3; 2017 OD_{20}, 3, 1, 0; 2017 OE_{20}, 6, 2, 1; 2017 OU_{67}, 3, 1, 0; 2017 OV_{67}, 2, 1, 0; 2017 OW_{67}, 3, 1, 0; 2017 OX_{67}, 3, 1, 0; 2017 OY_{67}, 3, 1, 0; 2017 OZ_{67}, 6, 2, 3; 2017 OB_{68}, 3, 1, 0; 2017 OD_{68}, 3, 1, 0; 2017 OG_{68}, 3, 1, 0; 2017 OH_{68}, 3, 1, 0; 2017 OQ_{68}, 3, 1, 0; 2017 OR_{68}, 3, 1, 0; 2017 OT_{68}, 3, 1, 0; 2017 OV_{68}, 3, 1, 0; 2017 OX_{68}, 13, 4, 27; 2017 OA_{69}, 1, 1, 0; 2017 PW_{25}, 3, 1, 0; 2017 PD_{26}, 3, 1, 0; 2017 PG_{26}, 3, 1, 0; 2017 PH_{26}, 3, 1, 0; 2017 PO_{26}, 3, 1, 0; 2017 PW_{26}, 3, 1, 0; 2017 PX_{26}, 2, 1, 0; 2017 PZ_{26}, 3, 1, 0; 2017 PA_{27}, 3, 1, 0; 2017 PB_{27}, 3, 1, 0; 2017 PC_{27}, 3, 1, 0; 2017 PU_{30}, 3, 1, 0; 2017 QC, 3, 1, 0; 2017 QG, 3, 1, 0; 2017 QJ, 3, 1, 0; 2017 QK, 3, 1, 0; 2017 QL, 1, 1, 0; 2017 QM, 3, 1, 0; 2017 QN, 2, 1, 0; 2017 QO *, 6, 2, 1; 2017 QP, 3, 1, 0; 2017 QQ, 3, 1, 0; 2017 QR, 3, 1, 0; 2017 QS, 1, 1, 0; 2017 QJ_1, 3, 1, 0; 2017 QM_1, 6, 2, 2; 2017 QN_1, 2, 1, 0; 2017 QO_1, 3, 1, 0; 2017 QQ_1, 3, 1, 0; 2017 QS_1, 3, 1, 0; 2017 QT_1, 1, 1, 0; 2017 QU_1, 3, 1, 0; 2017 QZ_1, 3, 1, 0; 2017 QB_2, 3, 1, 0; 2017 QC_2, 3, 1, 0; 2017 QD_2, 3, 1, 0; 2017 QG_2, 3, 1, 0; 2017 QH_2, 3, 1, 0; 2017 QJ_2, 3, 1, 0; 2017 QK_2, 3, 1, 0; 2017 QL_2, 6, 2, 3; 2017 QM_2, 3, 1, 0; 2017 QN_2, 3, 1, 0; 2017 QO_2, 3, 1, 0; 2017 QP_2, 2, 1, 0; 2017 QR_2, 3, 1, 0; 2017 QY_2, 3, 1, 0; 2017 QZ_2, 3, 1, 0; 2017 QA_3, 3, 1, 0; 2017 QB_3, 3, 1, 0; 2017 QC_3, 3, 1, 0; 2017 QM_{16}, 3, 1, 0; 2017 QN_{16}, 3, 1, 0; 2017 QO_{16}, 6, 2, 3; 2017 QP_{16}, 6, 2, 3; 2017 QQ_{16}, 3, 1, 0; 2017 QY_{16}, 3, 1, 0; 2017 QZ_{16}, 6, 2, 3; 2017 QA_{17}, 6, 2, 3; 2017 QC_{17}, 5, 2, 2; 2017 QD_{17}, 3, 1, 0; 2017 QE_{17}, 3, 1, 0; 2017 QF_{17}, 3, 1, 0; 2017 QJ_{17}, 3, 1, 0; 2017 QM_{17}, 3, 1, 0; 2017 QN_{17}, 3, 1, 0; 2017 QO_{17}, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QT_{17}, 3, 1, 0; 2017 QV_{17}, 1, 1, 0; 2017 QE_{18}, 3, 1, 0; 2017 QF_{18}, 3, 1, 0; 2017 QH_{18}, 3, 1, 0; 2017 QJ_{18}, 3, 1, 0; 2017 QK_{18}, 3, 1, 0; 2017 QL_{18}, 3, 1, 0; 2017 QM_{18}, 3, 1, 0; 2017 QO_{32}, 3, 1, 0; 2017 QP_{32}, 5, 1, 0; 2017 QF_{33}, 3, 1, 0; 2017 QG_{33}, 3, 1, 0; 2017 QH_{33}, 4, 1, 0; 2017 QJ_{33}, 6, 2, 1; 2017 QK_{33}, 3, 1, 0; 2017 QO_{33}, 8, 3, 27; 2017 QT_{34}, 6, 2, 11; 2017 QW_{34}, 9, 3, 13; 2017 QX_{34}, 3, 1, 0; 2017 QA_{36}, 3, 1, 0; 2017 QB_{36}, 3, 1, 0; 2017 RG_1, 5, 1, 0; 2017 RW_1, 3, 1, 0; 2017 RC_2, 3, 1, 0; 2017 RD_2, 3, 1, 0; 2017 RF_2, 3, 1, 0; 2017 RJ_2, 3, 1, 0; 2017 RK_2, 3, 1, 0; 2017 RL_2, 3, 1, 0; 2017 RM_2, 3, 1, 0; 2017 RO_2, 4, 1, 0; 2017 RP_2, 3, 1, 0; 2017 RR_2, 3, 1, 0; 2017 RT_2, 3, 1, 0; 2017 RH_{14}, 3, 1, 0; 2017 RM_{14}, 3, 1, 0; 2017 RN_{14}, 3, 1, 0; 2017 RS_{14}, 2, 1, 0; 2017 RT_{14}, 3, 1, 0; 2017 RB_{15}, 3, 1, 0; 2017 RC_{15}, 3, 1, 0; 2017 RD_{15}, 3, 1, 0; 2017 RE_{15}, 3, 1, 0; 2017 RF_{15}, 5, 1, 0; 2017 RG_{15}, 2, 1, 0; 2017 RH_{15}, 3, 1, 0; 2017 RJ_{15}, 5, 1, 0; 2017 RK_{15}, 4, 1, 0; 2017 RL_{15}, 3, 1, 0; 2017 RM_{15}, 3, 1, 0; 2017 RN_{15}, 3, 1, 0; 2017 RO_{15}, 3, 1, 0; 2017 RP_{15}, 3, 1, 0; 2017 RQ_{15}, 2, 1, 0; 2017 RT_{15}, 2, 1, 0; 2017 RU_{15}, 3, 1, 0; 2017 RX_{15}, 3, 1, 0; 2017 RY_{15}, 3, 1, 0; 2017 RZ_{15}, 3, 1, 0; 2017 RB_{16}, 3, 1, 0; 2017 RE_{16}, 3, 1, 0; 2017 RG_{16}, 7, 2, 3; 2017 RH_{16}, 3, 1, 0; 2017 RK_{16}, 3, 1, 0; 2017 RL_{16}, 1, 1, 0; 2017 RM_{16}, 3, 1, 0; 2017 RN_{16}, 9, 3, 4; 2017 RO_{16}, 6, 2, 4; 2017 RP_{16}, 3, 1, 0; 2017 RQ_{16}, 3, 1, 0; 2017 RR_{16}, 6, 1, 0; 2017 RS_{16}, 3, 1, 0; 2017 RO_{17}, 6, 2, 7; 2017 RX_{17}, 3, 1, 0; 2017 RY_{17}, 3, 1, 0; 2017 RZ_{17}, 3, 1, 0; 2017 SA, 3, 1, 0; 2017 SY_1, 3, 1, 0; 2017 SD_2, 3, 1, 0; 2017 SF_2, 3, 1, 0; 2017 SG_2, 3, 1, 0; 2017 SJ_2, 3, 1, 0; 2017 SS_2, 3, 1, 0; 2017 SA_3, 2, 1, 0; 2017 SG_{10}, 3, 1, 0; 2017 SJ_{10}, 3, 1, 0; 2017 SK_{10}, 3, 1, 0; 2017 SL_{10}, 3, 1, 0; 2017 SU_{10}, 3, 1, 0; 2017 SV_{10}, 5, 1, 0; 2017 SD_{11}, 3, 1, 0; 2017 SH_{11}, 3, 1, 0; 2017 SJ_{11}, 3, 1, 0; 2017 ST_{11}, 2, 1, 0; 2017 SU_{11}, 3, 1, 0; 2017 SV_{11}, 3, 1, 0; 2017 SX_{11}, 3, 1, 0; 2017 SY_{11}, 3, 1, 0; 2017 SZ_{11}, 3, 1, 0; 2017 SA_{12}, 3, 1, 0; 2017 SB_{12}, 3, 1, 0; 2017 SC_{12}, 2, 1, 0; 2017 SF_{12}, 2, 1, 0; 2017 SH_{12}, 3, 1, 0; 2017 SJ_{12}, 3, 1, 0; 2017 SK_{12}, 3, 1, 0; 2017 SL_{12}, 3, 1, 0; 2017 SO_{12}, 3, 1, 0; 2017 SP_{12}, 3, 1, 0; 2017 SU_{12}, 3, 1, 0; 2017 SV_{13}, 3, 1, 0; 2017 SA_{14}, 3, 1, 0; 2017 SC_{14}, 5, 1, 0; 2017 SK_{17}, 2, 1, 0; 2017 SN_{18}, 3, 1, 0; 2017 SE_{19}, 2, 1, 0; 2017 SG_{19}, 3, 1, 0; 2017 SH_{19}, 3, 1, 0; 2017 SL_{19}, 3, 1, 0; 2017 SM_{19}, 3, 1, 0; (383433), 3, 1, 0; (418993), 3, 1, 0; *[881, 261, 1*, 2010/10/29–2017/09/25]*

583 Odessa-Mayaki

I. Stogneeva, 1B Marazliyivs'ka Street, UA-65014 Odessa, Ukraine [skyiris@ukr.net]
Observers V. Kashuba, S. Kashuba
Measurers V. Troianskyi, V. Savanevych, S. Kashuba
0.80-m $f/3$ reflector + CCD
UCAC-4

2000 SH_5, 3, 1, 0; 2012 UG_{135}, 6, 1, 0; 2013 QV_{61}, 4, 1, 0; 2014 UD_{135}, 4, 1, 0; 2014 YC_{15}, 14, 1, 0; 2016 GN_{108}, 6, 2, 4; 2017 OG_{62}, 5, 1, 0; 2017 QX_{33} *, 10, 3, 22; 2017 QJ_{36} *, 3, 1, 0; 2017 RV_{12} *, 8, 2, 1; (1339), 7, 2, 4; (1629), 3, 1, 0; (4779), 5, 1, 0; (6053), 21, 2, 4; (7515), 3, 1, 0; (8994), 9, 2, 1; (9693), 3, 1, 0; (13454), 5, 1, 0; (13581), 7, 1, 0; (20460), 4, 1, 0; (21203), 4, 1, 0; (22043), 7, 2, 1; (27528), 5, 1, 0; (28179), 10, 1, 0; (32909), 5, 1, 0; (36951), 13, 1, 0; (37425), 5, 1, 0; (37473), 12, 2, 1; (40530), 3, 1, 0; (47061), 3, 1, 0; (48518), 5, 1, 0; (50242), 10, 2, 2; (55331), 11, 2, 1; (58369), 5, 1, 0; (58974), 8, 2, 1; (61924), 5, 1, 0; (64503), 3, 1, 0; (65114), 6, 1, 0; (65817), 9, 2, 4; (66391), 20, 3, 8; (67087), 5, 1, 0; (69444), 4, 1, 0; (80433), 3, 1, 0; (82882), 12, 2, 1; (83831), 18, 3, 6; (91868), 5, 1, 0; (98424), 5, 1, 0; (102235), 9, 2, 2; (106402), 6, 1, 0; (110845), 11, 2, 1; (111580), 6, 1, 0; (113905), 26, 3, 6; (114266), 21, 3, 6; (114906), 8, 2, 1; (121727), 10, 2, 1; (131265), 3, 1, 0; (132443), 6, 2, 1; (136500), 8, 1, 0; (138629), 5, 1, 0; (140431), 5, 1, 0; (143580), 4, 1, 0; (148636), 5, 1, 0; (149252), 4, 1, 0; (161710), 7, 1, 0; (168405), 5, 1, 0; (169503), 4, 1, 0; (173070), 3, 1, 0; (183946), 3, 1, 0; (190064), 3, 1, 0; (197986), 8, 2, 1; (198430), 3, 1, 0; (200300), 3, 1, 0; (205631), 4, 1, 0; (207924), 5, 1, 0; (211192), 6, 1, 0; (216716), 6, 1, 0; (216850), 13, 3, 6; (224388), 3, 1, 0; (225534), 5, 1, 0; (230668), 9, 2, 2; (235265), 3, 1, 0; (237634), 9, 2, 2; (237651), 4, 1, 0; (275689), 10, 3, 5; (275700), 12, 2, 2; (276532), 6, 1, 0; (284323), 4, 1, 0; (288758), 5, 1, 0; (294017), 14, 3, 2; (308377), 3, 1, 0; (340696), 4, 1, 0; (416297), 4, 1, 0; (429419), 5, 1, 0; (436390), 7, 2, 4; (489244), 11, 2, 2; (496018), 51, 4, 21; *[710, 96, 3*, 2017/06/19–2017/09/18]*

585 Kyiv comet station

A. Baransky, Astronomical Observatory of Kyiv University, Observatorna 3, Kyiv, Ukraine [abaransky@ukr.net]
Observers A. Baransky, S. Borysenko, E. Musiichuk, Y. Krugly, A. Simon, S. Markovska, A. O. Simon, V. Vasylenko, O. Musiichuk, I. Izvekova, V. Godunova, L. Kozak, V. Lapchuk, V. V. Vasylenko, V. G. Godunova, V. P. Lapchuk, L. V. Kozak
Measurers A. Simon, A. Baransky, A. O. Simon, O. Musiichuk, D. D. Fedorovych
0.7-m $f/4$ reflector + CCD
UCAC-4, PPMXL, Gaia-DR1

2017 OC, 4, 1, 0; 2017 OD, 8, 1, 0; 2017 OH_{68}, 7, 1, 0; 2017 PY_{24}, 6, 1, 0; 2017 QM_{16}, 5, 1, 0; 2017 RQ_2, 5, 1, 0; 2017 RU_2, 6, 1, 0; 2017 RV_2, 8, 1, 0; 2017 RX_2, 4, 1, 0; 2017 RV_{17}, 8, 1, 0; 2017 SG_{20}, 5, 1, 0; (883), 12, 1, 0; (1003), 5, 1, 0; (7435), 11, 1, 0; (10366), 9, 1, 0; (18734), 5, 1, 0; (19966), 2, 1, 0; (22654), 10, 1, 0; (22926), 5, 1, 0; (32456), 5, 1, 0; (33193), 4, 1, 0; (38708), 19, 1, 0; (39343), 4, 2, 4; (44747), 5, 1, 0; (78616), 2, 1, 0; (88882), 3, 1, 0; (95138), 4, 1, 0; (113619), 2, 1, 0; (134340), 6, 1, 0; (139452), 3, 1, 0; (143922), 2, 1, 0; (148913), 2, 1, 0; (156566), 3, 1, 0; (162642), 2, 1, 0; (171077), 3, 1, 0; (236591), 7, 1, 0; (256563), 4, 1, 0; (276252), 2, 1, 0; (304635), 2, 1, 0; (323059), 3, 1, 0; (344317), 4, 1, 0; (457175), 29, 3, 57; (492203), 1, 1, 0; *[246, 43, 0*, 2017/07/17–2017/09/30]*

586 Pic du Midi

C. Cavadore, Mitterweg Str. 2, D-85748 Garching bei München, Germany [ccavador@eso.org]
Observers O. Bautista, N. Elinguel, P. Gibaru
1.05 m $f/6$ reflector + CCD
USNO-A2.0

(279434), 3, 1, 0; (302154), 3, 1, 0; (303940), 3, 1, 0; (374139), 3, 1, 0; *[12, 4, 0*, 2017/08/17]*

587 Sormano

P. Sicoli, Viale Montegrappa 6, I-23900 Lecco, Italy [obs.sormano@alice.it]

Observers A. Fumagalli, P. Sicoli, A. Testa, G. Ventre, E. Colzani, F. Manca, I. Proserpio, A. Carcano
0.5-m f/6.8 reflector + CCD
Gaia-DR1, NOMAD

2017 NM_6, 3, 1, 0; 2017 OH_7, 4, 1, 0; 2017 PY_{26}, 6, 1, 0; 2017 PA_{27}, 2, 1, 0; 2017 QR_1, 3, 1, 0; 2017 QS_{16}, 8, 1, 0; 2017 QO_{17}, 2, 1, 0; 2017 QP_{17}, 2, 1, 0; 2017 QQ_{17}, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; 2017 QT_{17}, 3, 1, 0; 2017 QO_{33}, 2, 1, 0; 2017 RU_1, 3, 1, 0; 2017 SH_{10}, 2, 1, 0; 2017 SP_{10}, 3, 1, 0; 2017 SQ_{10}, 3, 1, 0; (35629), 3, 1, 0; (55559), 2, 1, 0; (110602), 2, 1, 0; (153542), 3, 1, 0; (457175), 6, 2, 16; *[71, 22, 0*, 2017/07/16–2017/09/21]*

589 Santa Lucia Stroncone

A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy [vagnozzi@freenet.hut.fi]
0.50-m f/2.8 Ritchey-Chrétien + CCD
USNO-A1.0

2015 BG_{274}, 2, 1, 0; *[2, 1, 0*, 1996/09/04]*

595 Farra d'Isonzo

E. Pettarin, CCAF, Strada Colombara 11, I-34072 Farra d'Isonzo (GO), Italy [info@ccaf.it]
Observers M. Ceschia, U. Montanar, E. Pettarin, F. Piani, L. Bittesini, M. Vivona, G. Ierman
0.61-m f/4.0 reflector + CCD, 0.40-m f/4.5 reflector + CCD
UCAC-4, URAT-1

2012 XB_{134}, 3, 1, 0; 2017 BS_5, 3, 1, 0; 2017 NS_5, 4, 1, 0; 2017 NM_6, 4, 1, 0; 2017 OC, 2, 1, 0; 2017 OD, 3, 1, 0; 2017 OF_1, 2, 1, 0; 2017 OG_1, 3, 1, 0; 2017 OJ_1, 3, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OM_1, 3, 1, 0; 2017 ON_1, 2, 1, 0; 2017 OO_1, 3, 1, 0; 2017 OF_7, 2, 1, 0; 2017 OH_7, 2, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OK_{19}, 2, 1, 0; 2017 OH_{68}, 2, 1, 0; 2017 PG, 2, 1, 0; 2017 PP_{24}, 2, 1, 0; 2017 PR_{24}, 3, 1, 0; 2017 PU_{24}, 2, 1, 0; 2017 PX_{24}, 3, 1, 0; 2017 PY_{24}, 2, 1, 0; 2017 QP_2, 3, 1, 0; 2017 QM_{16}, 2, 1, 0; 2017 QS_{16}, 3, 1, 0; 2017 QP_{17}, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 2, 1, 0; 2017 QW_{17}, 3, 1, 0; 2017 QV_{34}, 2, 1, 0; 2017 QY_{34}, 2, 1, 0; 2017 QR_{35}, 4, 1, 0; 2017 RL, 2, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RV_1, 2, 1, 0; 2017 RW_1, 2, 1, 0; 2017 RX_1, 7, 2, 10; 2017 SP_{10}, 4, 1, 0; 2017 SS_{10}, 3, 1, 0; 2017 SD_{12}, 4, 1, 0; 2017 SS_{12}, 2, 1, 0; 2017 SN_{14}, 3, 1, 0; 2017 SR_{16}, 3, 1, 0; 2017 SN_{17}, 3, 1, 0; 2017 SS_{19}, 2, 1, 0; (3122), 3, 1, 0; *[132, 48, 0*, 2017/07/15–2017/09/27]*

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

1996 VE_{42}, 8, 2, 25; 2006 KB_{27}, 3, 1, 0; 2008 TL_{69}, 3, 1, 0; 2010 LF_{96}, 3, 1, 0; 2011 QF_{40}, 3, 1, 0; 2012 XG_{17}, 4, 1, 0; 2013 QA_{84}, 3, 1, 0; 2014 SZ_{307}, 3, 1, 0; 2014 WC_{56}, 4, 1, 0; 2015 BN_{60}, 3, 1, 0; 2015 BG_{279}, 4, 1, 0; 2015 BD_{321}, 3, 1, 0; 2015 HK_{20}, 3, 1, 0; 2015 HH_{145}, 4, 1, 0; 2016 JN_{30}, 2, 1, 0; 2017 NS_3, 4, 1, 0; 2017 SQ, 3, 1, 0; *[60, 17, 0*, 2002/03/21–2005/08/29]*

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, R. Bambery, E. Helin
Measurers E. Colombini, R. J. Bouma, R. Matson, S. Foglia, M. Tombelli
1.2-m reflector + CCD
PPMXL, USNO-B1.0, USNO-A2.0

2001 QB_{52}, 3, 1, 0; 2002 QJ_{157}, 3, 1, 0; 2002 QR_{157}, 3, 1, 0; 2002 RN_{38}, 3, 1, 0; 2002 RU_{295}, 3, 1, 0; 2002 TL_{35}, 3, 1, 0; 2003 XB_{15}, 3, 1, 0; 2005 PK_6, 5, 1, 0; 2005 XQ_{28}, 2, 1, 0; 2006 AQ_{86}, 3, 1, 0; 2008 RZ_{77}, 3, 1, 0; 2008 UF_{314}, 3, 1, 0; 2008 YE_{153}, 9, 3, 35; 2009 DX_{139}, 3, 1, 0; 2009 UW_{90}, 6, 2, 16; 2009 WN_{261}, 6, 2, 29; 2010 FL_{13}, 5, 2, 923; 2010 NJ_{66}, 3, 1, 0; 2010 VW_{186}, 3, 1, 0; 2011 EK_{84}, 6, 2, 56; 2011 SY_{121}, 3, 1, 0; 2011 YQ_{74}, 3, 1, 0; 2012 CQ_{36}, 3, 1, 0; 2012 UB_{161}, 2, 1, 0; 2012 UY_{164}, 3, 1, 0; 2013 CN_{45}, 3, 1, 0; 2013 CK_{79}, 3, 1, 0; 2013 ER_{126}, 3, 1, 0; 2013 SW_{25}, 3, 1, 0; 2013 TB_3, 11, 4, 1760; 2013 TP_{37}, 3, 1, 0; 2013 WP_{57}, 3, 1, 0; 2013 WH_{98}, 6, 2, 16; 2013 YH_{124}, 3, 1, 0; 2014 EG_{24}, 3, 1, 0; 2014 TZ_{55}, 3, 1, 0; 2014 UX_{42}, 3, 1, 0; 2014 UE_{119}, 3, 1, 0; 2014 UX_{212}, 3, 1, 0; 2014 VL_6, 6, 2, 4; 2014 WP_{463}, 3, 1, 0; 2014 WC_{469}, 3, 1, 0; 2014 WB_{481}, 11, 4, 23; 2014 WH_{491}, 3, 1, 0; 2015 AL_{282}, 3, 1, 0; 2015 BR, 3, 1, 0; 2015 BQ_{90}, 3, 1, 0; 2015 BP_{163}, 3, 1, 0; 2015 BJ_{512}, 3, 1, 0; 2015 CG_{14}, 2, 1, 0; 2015 CX_{59}, 6, 1, 0; 2015 DS_{74}, 3, 1, 0; 2015 DW_{112}, 3, 1, 0; 2015 DO_{117}, 3, 1, 0; 2015 DL_{196}, 6, 2, 22; 2015 DO_{204}, 6, 2, 9; 2015 FE_{142}, 6, 2, 11; 2015 GQ_{36}, 3, 1, 0; 2015 OU_{32}, 3, 1, 0; 2015 RK_{117}, 3, 1, 0; 2015 XP_{386}, 3, 1, 0; 2016 AR_9, 3, 1, 0; 2016 AA_{112}, 3, 1, 0; 2016 AX_{168}, 5, 2, 14; 2016 BL_{44}, 3, 1, 0; 2016 EB_{175}, 2, 1, 0; 2016 FH_{52}, 6, 2, 8; 2016 JJ_{30}, 9, 3, 17; 2016 QQ_{36}, 3, 1, 0; 2016 WM_2, 6, 2, 14; 2017 BF_{111}, 6, 2, 37; 2017 FT_{43}, 3, 1, 0; 2017 HX_{50}, 3, 1, 0; 2017 OT, 6, 1, 0; 2017 QX_{13}, 3, 1, 0; (7253), 2, 1, 0; (17938), 3, 1, 0; (25933), 3, 1, 0; (33803), 22, 8, 1614; (37524), 3, 1, 0; (38717), 3, 1, 0; (80620), 3, 1, 0; (102521), 3, 1, 0; (113497), 18, 7, 1616; (144132), 3, 1, 0; (148988), 2, 1, 0; (167591), 2, 1, 0; (214641), 3, 1, 0; (283375), 3, 1, 0; (483516), 3, 1, 0; (495570), 12, 5, 1929; (496565), 3, 1, 0; *[385, 92, 0*, 2000/03/05–2005/09/12]*

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

2006 UJ_{19}, 3, 1, 0; 2007 TP_{137}, 3, 1, 0; 2012 UF_{38}, 5, 2, 1; 2013 NB_3, 4, 1, 0; 2013 SM_{50}, 3, 1, 0; 2014 TG_{48}, 3, 1, 0; 2014 TD_{74}, 3, 1, 0; 2014 YU_{21}, 3, 1, 0; 2015 BO_{263}, 4, 1, 0; 2015 DO_{118}, 3, 1, 0; 2015 EM_{24}, 3, 1, 0; 2015 FC_{157}, 3, 1, 0; 2015 GW_{34}, 2, 1, 0; 2016 GV_{33}, 3, 1, 0; 2017 NR_1, 3, 1, 0; 2017 PC_{29}, 3, 1, 0; 2017 QF_{34} *, 7, 2, 1; 2017 QG_{34} *, 5, 2, 1; 2017 QH_{34} *, 5, 2, 1; 2017 QG_{36}, 3, 1, 0; 2017 SG_3, 3, 1, 0; (51970), 5, 2, 1; (89464), 5, 2, 1; (108676), 4, 1, 0; (122468), 7, 2, 1; (123326), 3, 1, 0; (125397), 4, 1, 0; (153134), 8, 2, 1; (166830), 8, 2, 1; (173019), 5, 2, 1; (197205), 3, 1, 0; (220191), 5, 2, 1; (237669), 5, 2, 1; (242362), 3, 1, 0; (243096), 3, 1, 0; (261929), 3, 1, 0; (284647), 5, 2, 1; (321225), 3, 1, 0; (331894), 4, 1, 0; (341663), 4, 1, 0; (343301), 4, 1, 0; (345686), 5, 2, 1; (356940), 5, 2, 1; (368769), 4, 1, 0; (372015), 3, 1, 0; (377370), 4, 1, 0; (379055), 3, 1, 0; *[189, 47, 3*, 2008/01/06–2017/08/29]*

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/3.5 reflector + CCD, 0.30-m f/5 reflector + CCD
URAT-1

2002 TP_{233}, 5, 2, 1; 2012 TZ_{254}, 3, 1, 0; *[8, 2, 0*, 2017/08/27–2017/08/29]*

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R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A. [Raymond.J.Bambery@jpl.nasa.gov]
Observers R. Bambery, S. Pravdo, K. J. Lawrence, K. Kuluhiwa, M. Hicks, R. Thicksten, E. F. Helin
Measurers A. Mimeev, E. Colombini, R. J. Bouma, S. Deshmukh, R. Matson, M. Kusiak, M. Żołnowski
1.2-m Oschin Schmidt + CCD
UCAC-2, PPMXL, USNO-B1.0, UCAC-4, USNO-A2.0, CMC

2001 QB_{52}, 3, 1, 0; 2001 SU_{166}, 3, 1, 0; 2001 SW_{356}, 6, 1, 0; 2001 TN_{263}, 3, 1, 0; 2001 UN_{232}, 3, 1, 0; 2001 UR_{232} *, 3, 1, 0; 2001 US_{232} *, 3, 1, 0; 2002 GO_{104}, 6, 2, 27; 2002 LK_{65} *, 7, 3, 22; 2002 NF_{69}, 3, 1, 0; 2002 PB_{203}, 6, 2, 15; 2002 QP_{157} *, 11, 4, 28; 2002 QQ_{157} *, 12, 4, 26; 2002 QR_{157} *, 15, 5, 40; 2002 QS_{157} *, 14, 5, 39; 2002 QT_{157} *, 7, 3, 17; 2002 QU_{157} *, 8, 3, 16; 2002 RB_{296}, 3, 1, 0; 2002 RA_{297} *, 12, 4, 32; 2002 TD_{58}, 8, 3, 16; 2002 TP_{232}, 3, 1, 0; 2003 SA_{435} *, 9, 2, 6; 2004 BE, 3, 1, 0; 2004 BP_{69}, 3, 1, 0; 2004 EE_{48}, 3, 1, 0; 2004 KP_3, 3, 1, 0; 2004 XS_{157}, 3, 1, 0; 2005 EQ_{252}, 3, 1, 0; 2005 LN_{33}, 14, 5, 49; 2005 SO_{293}, 3, 1, 0; 2005 WD_{166}, 5, 2, 23; 2005 XZ_{116}, 6, 2, 12; 2006 DG_{219}, 3, 1, 0; 2006 GW_{37}, 3, 1, 0; 2006 GJ_{39}, 3, 1, 0; 2006 QF_{140}, 3, 1, 0; 2006 SO_{117}, 3, 1, 0; 2006 XD_{34}, 3, 1, 0; 2007 AT_{24}, 3, 1, 0; 2007 EN_{224}, 3, 1, 0; 2007 GU_8, 3, 1, 0; 2007 RB_{172}, 3, 1, 0; 2007 RZ_{314}, 3, 1, 0; 2008 QH_{29}, 2, 1, 0; 2008 SC_{47}, 3, 1, 0; 2008 SS_{304}, 11, 4, 27; 2008 YB_{142}, 3, 1, 0; 2008 YE_{153}, 3, 1, 0; 2009 SY, 6, 2, 1; 2009 TP_{30}, 3, 1, 0; 2009 UT_{103}, 7, 2, 474; 2009 WC_{247}, 3, 1, 0; 2009 WN_{261}, 6, 2, 20; 2010 CY_{73}, 3, 1, 0;

2010 CE_{164}, 3, 1, 0; 2010 EN_{107}, 3, 1, 0; 2010 FU_{12}, 3, 1, 0; 2010 FL_{13}, 5, 2, 8; 2010 HF_{54}, 3, 1, 0; 2010 JN_{179}, 3, 1, 0; 2010 LQ_{36}, 3, 1, 0; 2010 MV_{75}, 3, 1, 0; 2010 NJ_{66}, 6, 2, 10; 2010 OL_{30}, 6, 2, 21; 2010 TV_{58}, 3, 1, 0; 2010 UL_{93}, 15, 5, 39; 2010 VC_{200}, 3, 1, 0; 2010 XT_2, 3, 1, 0; 2010 XX_{12}, 3, 1, 0; 2010 XY_{29}, 6, 2, 30; 2011 BF_{53}, 3, 1, 0; 2011 CX_{75}, 3, 1, 0; 2011 DF_{11}, 6, 1, 0; 2011 FQ_8, 3, 1, 0; 2011 GH_{71}, 9, 3, 8; 2011 HM, 3, 1, 0; 2011 HV_{80}, 3, 1, 0; 2011 KP_{18}, 3, 1, 0; 2011 PT_{13}, 3, 1, 0; 2011 SJ_{12}, 3, 1, 0; 2011 SY_{121}, 6, 2, 1; 2011 SX_{247}, 11, 4, 30; 2011 YH, 3, 1, 0; 2011 YO_{11}, 3, 1, 0; 2011 YY_{69}, 12, 4, 1347; 2012 FV_{81}, 10, 3, 7; 2012 KE_{49}, 3, 1, 0; 2012 MN_{16}, 3, 1, 0; 2012 QV_{14}, 3, 1, 0; 2012 QY_{46}, 3, 1, 0; 2012 SO_{10}, 3, 1, 0; 2012 TG_{48}, 3, 1, 0; 2012 TB_{55}, 3, 1, 0; 2012 TC_{59}, 3, 1, 0; 2012 TL_{145}, 3, 1, 0; 2012 TD_{276}, 3, 1, 0; 2012 US_{25}, 3, 1, 0; 2012 UN_{58}, 3, 1, 0; 2012 UH_{125}, 6, 2, 12; 2012 XA_{93}, 3, 1, 0; 2012 XB_{134}, 3, 1, 0; 2013 AE_{52}, 6, 2, 20; 2013 CF_{182}, 9, 3, 29; 2013 EU_{154}, 3, 1, 0; 2013 GH_{40}, 3, 1, 0; 2013 KZ_{12}, 5, 2, 9; 2013 LA_{36}, 3, 1, 0; 2013 MD_{12}, 3, 1, 0; 2013 ND, 6, 2, 941; 2013 OD_{10}, 3, 1, 0; 2013 PB_{75}, 3, 1, 0; 2013 QS_{10}, 3, 1, 0; 2013 QU_{13}, 3, 1, 0; 2013 SA_{10}, 3, 1, 0; 2013 SY_{71}, 3, 1, 0; 2013 TB_3, 5, 2, 442; 2013 TZ_{11}, 9, 3, 41; 2013 TP_{37}, 3, 1, 0; 2013 TC_{99}, 3, 1, 0; 2013 TC_{143}, 3, 1, 0; 2013 TZ_{159}, 3, 1, 0; 2013 WY_{53}, 3, 1, 0; 2013 WM_{57}, 8, 3, 11; 2013 WP_{57}, 3, 2, 5; 2013 WV_{97}, 3, 1, 0; 2013 YY_{33}, 3, 1, 0; 2013 YH_{124}, 11, 4, 467; 2014 BJ_{44}, 3, 1, 0; 2014 DN_{144}, 3, 1, 0; 2014 JZ_{11}, 15, 5, 1767; 2014 KM_{28}, 6, 2, 24; 2014 OQ_{43}, 3, 1, 0; 2014 OY_{394}, 3, 1, 0; 2014 RY_{41}, 3, 1, 0; 2014 RD_{64}, 3, 1, 0; 2014 SQ_{164}, 9, 3, 22; 2014 SC_{223}, 3, 1, 0; 2014 SK_{278}, 3, 1, 0; 2014 SE_{305}, 3, 1, 0; 2014 TB_6, 3, 1, 0; 2014 TP_{36}, 6, 2, 9; 2014 TQ_{36}, 3, 1, 0; 2014 TP_{59}, 3, 1, 0; 2014 TB_{65}, 6, 2, 33; 2014 UW_6, 11, 4, 1420; 2014 UY_{17}, 3, 1, 0; 2014 US_{92}, 3, 1, 0; 2014 UN_{112}, 3, 1, 0; 2014 UK_{119}, 3, 1, 0; 2014 UF_{132}, 6, 1, 0; 2014 UV_{136}, 6, 2, 8; 2014 UL_{150}, 3, 1, 0; 2014 UP_{192}, 3, 1, 0; 2014 UX_{212}, 8, 3, 41; 2014 VW_{13}, 3, 1, 0; 2014 VO_{37}, 8, 2, 1399; 2014 VA_{38}, 6, 2, 33; 2014 WH_{14}, 8, 3, 8; 2014 WZ_{24}, 3, 1, 0; 2014 WA_{349}, 3, 1, 0; 2014 WM_{350}, 3, 1, 0; 2014 WP_{363}, 2, 1, 0; 2014 WO_{389}, 8, 3, 49; 2014 WS_{399}, 11, 4, 27; 2014 WK_{415}, 3, 1, 0; 2014 WZ_{427}, 3, 1, 0; 2014 WE_{429}, 6, 1, 0; 2014 WO_{467}, 3, 1, 0; 2014 WY_{479}, 3, 1, 0; 2014 WG_{480}, 6, 2, 18; 2014 WB_{481}, 8, 3, 20; 2014 WH_{491}, 6, 2, 18; 2014 WT_{494}, 3, 1, 0; 2014 WP_{495}, 3, 1, 0; 2014 WW_{495}, 3, 1, 0; 2014 XC_{17}, 3, 1, 0; 2014 XB_{38}, 3, 1, 0; 2014 XZ_{39}, 3, 1, 0; 2014 XE_{41}, 3, 1, 0; 2014 YU_{21}, 3, 1, 0; 2014 YQ_{30}, 3, 1, 0; 2014 YU_{45}, 3, 1, 0; 2014 YH_{47}, 3, 1, 0; 2014 YL_{47}, 9, 3, 1409; 2014 YA_{51}, 9, 3, 47; 2014 YJ_{51}, 3, 1, 0; 2014 YK_{51}, 3, 1, 0; 2014 YM_{51}, 3, 1, 0; 2015 AN_{198}, 3, 1, 0; 2015 AK_{246}, 3, 1, 0; 2015 AR_{281}, 3, 1, 0; 2015 AX_{281}, 3, 1, 0; 2015 AA_{282}, 3, 1, 0; 2015 AL_{282}, 3, 1, 0; 2015 BO_{19}, 22, 8, 29; 2015 BO_{40}, 3, 1, 0; 2015 BY_{45}, 3, 1, 0; 2015 BC_{46}, 6, 2, 43; 2015 BR_{55}, 3, 1, 0; 2015 BF_{60}, 3, 1, 0; 2015 BE_{61}, 3, 1, 0; 2015 BM_{93}, 3, 1, 0; 2015 BR_{100}, 3, 1, 0; 2015 BH_{132}, 3, 1, 0; 2015 BY_{141}, 3, 1, 0; 2015 BN_{150}, 9, 1, 0; 2015 BS_{229}, 3, 1, 0; 2015 BD_{234}, 3, 1, 0; 2015 BG_{250}, 3, 1, 0; 2015 BS_{254}, 3, 1, 0; 2015 BL_{255}, 3, 1, 0; 2015 BG_{279}, 3, 1, 0; 2015 BT_{309}, 3, 1, 0; 2015 BN_{314}, 3, 1, 0; 2015 BY_{355}, 3, 1, 0; 2015 BW_{442}, 9, 3, 1415; 2015 BE_{485}, 11, 4, 29; 2015 BJ_{497}, 3, 1, 0; 2015 BH_{507}, 3, 1, 0; 2015 BT_{510}, 3, 1, 0; 2015 CA, 3, 1, 0; 2015 CF_{11}, 3, 1, 0; 2015 CB_{17}, 6, 1, 0; 2015 CU_{23}, 3, 1, 0; 2015 CX_{31}, 3, 1, 0; 2015 CF_{33}, 3, 1, 0; 2015 CH_{35}, 6, 2, 24; 2015 CD_{40}, 11, 4, 35; 2015 CD_{53}, 3, 1, 0; 2015 CR_{54}, 3, 1, 0; 2015 CX_{59}, 6, 2, 1826; 2015 DC_{20}, 3, 1, 0; 2015 DO_{20}, 3, 1, 0; 2015 DZ_{27}, 3, 1, 0; 2015 DY_{34}, 3, 1, 0; 2015 DT_{62}, 6, 1, 0; 2015 DS_{74}, 5, 2, 6; 2015 DY_{77}, 3, 1, 0; 2015 DA_{98}, 3, 1, 0; 2015 DF_{153}, 6, 2, 32; 2015 DY_{155}, 3, 1, 0; 2015 DO_{165}, 3, 1, 0; 2015 DV_{172}, 3, 1, 0; 2015 DK_{175}, 3, 1, 0; 2015 DO_{178}, 3, 1, 0; 2015 DB_{180}, 3, 1, 0; 2015 DA_{217}, 3, 1, 0; 2015 DH_{226}, 3, 1, 0; 2015 EE_{22}, 3, 1, 0; 2015 EH_{63}, 3, 1, 0; 2015 ES_{70}, 6, 2, 32; 2015 FQ_6, 6, 1, 0; 2015 FA_{19}, 3, 1, 0; 2015 FM_{21}, 3, 1, 0; 2015 FK_{41}, 3, 1, 0; 2015 FW_{45}, 3, 1, 0; 2015 FE_{142}, 9, 3, 535; 2015 FM_{177}, 3, 1, 0; 2015 FB_{178}, 6, 2, 25; 2015 FQ_{322}, 3, 1, 0; 2015 FV_{323}, 3, 1, 0; 2015 FY_{336}, 3, 1, 0; 2015 FL_{373}, 3, 1, 0; 2015 HH_{145}, 3, 1, 0; 2015 KG_{22}, 6, 2, 6; 2015 KF_{156}, 3, 1, 0; 2015 ME_{108}, 5, 2, 14; 2015 MG_{131}, 3, 1, 0; 2015 NP_{24}, 3, 1, 0; 2015 OA_5, 9, 2, 30; 2015 OU_{32}, 3, 1, 0; 2015 PU_1, 3, 1, 0; 2015 PS_{312}, 3, 1, 0; 2015 RS_5, 3, 1, 0; 2015 RB_{95}, 3, 1, 0; 2015 RK_{117}, 7, 2, 47; 2015 RJ_{243}, 9, 2, 4; 2015 RS_{246}, 3, 1, 0; 2015 TG_{180}, 18, 6, 74; 2015 TW_{259}, 3, 1, 0; 2015 TQ_{351}, 6, 2, 13; 2015 UH_{33}, 3, 1, 0; 2015 UT_{72}, 8, 3, 12; 2015 VO_2, 6, 2, 14; 2015 XB_{171}, 12, 4, 21; 2015 XP_{386}, 3, 1, 0; 2015 YL_{21}, 3, 1, 0; 2016 AU_{35}, 8, 3, 28; 2016 AC_{66}, 3, 1, 0; 2016 AP_{104}, 3, 1, 0; 2016 AA_{112}, 9, 3, 28; 2016 AQ_{130}, 3, 1, 0; 2016 AT_{191}, 3, 1, 0; 2016 AA_{192}, 6, 2, 564; 2016 AL_{194}, 3, 1, 0; 2016 BX_{59}, 3, 1, 0; 2016 CY_{23}, 3, 1, 0; 2016 CX_{150}, 10, 3, 36; 2016 DN_{30}, 3, 1, 0; 2016 DC_{31}, 3, 1, 0; 2016 EW_{65}, 3, 1, 0; 2016 ES_{66}, 3, 1, 0; 2016 ES_{72}, 3, 1, 0; 2016 EW_{87}, 3, 1, 0; 2016 EA_{139}, 3, 1, 0; 2016 FN_7, 3, 1, 0; 2016 FV_{17}, 3, 1, 0; 2016 FT_{49}, 3, 1, 0; 2016 FH_{52}, 3, 1, 0; 2016 GW_{85}, 3, 1, 0; 2016 GD_{96}, 3, 1, 0; 2016 GB_{134}, 3, 1, 0; 2016 GE_{145}, 3, 1, 0; 2016 GY_{163}, 3, 1, 0; 2016 GH_{210}, 6, 2, 10; 2016 GH_{220}, 3, 1, 0; 2016 GB_{253}, 3, 1, 0; 2016 HS_{10}, 3, 1, 0; 2016 HA_{24}, 3, 1, 0; 2016 JJ_{30}, 7, 3, 49; 2016 JY_{36}, 3, 1, 0; 2016 KF_4, 3, 1, 0; 2016 LJ_{13}, 3, 1, 0; 2016 LG_{52}, 3, 1, 0; 2016 LS_{52}, 3, 1, 0; 2016 NX_{56}, 6, 2, 33; 2016 NK_{57}, 3, 1, 0; 2016 NW_{57}, 3, 1, 0; 2016 OZ_1, 22, 7, 64; 2016 OP_3, 3, 1, 0; 2016 OQ_5, 3, 1, 0; 2016 PE_{37}, 3, 1, 0; 2016 PH_{74}, 2, 1, 0; 2016 PN_{79}, 3, 1, 0; 2016 PO_{79}, 3, 1, 0; 2016 PR_{79}, 3, 1, 0; 2016 PX_{79}, 3, 1, 0; 2016 PA_{80}, 3, 1, 0; 2016 QA_{20}, 14, 5, 53; 2016 QB_{29}, 3, 1, 0; 2016 TJ_{19}, 3, 1, 0; 2016 TY_{80}, 5, 2, 22; 2016 UP_7, 9, 3, 14; 2016 UM_{54}, 3, 1, 0; 2016 UZ_{147}, 3, 1, 0; 2016 XC_8, 14, 5, 59; 2017 BD_2, 3, 1, 0; 2017 BF_{111}, 11, 4, 27; 2017 CW_6, 2, 1, 0; 2017 DT_{114}, 9, 3, 37; 2017 DM_{120}, 6, 2, 10; 2017 FQ_{81}, 12, 4, 32; 2017 KT_5, 3, 1, 0; 2017 KZ_5, 3, 1, 0; 2017 KM_{12}, 3, 1, 0; 2017 KF_{24}, 3, 1, 0; 2017 KP_{28}, 6, 2, 504; 2017 KM_{32}, 3, 1, 0; 2017 NR_1, 3, 1, 0; 2017 NV_1, 6, 2, 8; 2017 NF_3, 3, 1, 0; 2017 NM_4, 3, 1, 0; 2017 OE, 3, 1, 0; 2017 OG, 3, 1, 0; 2017 OO, 3, 1, 0; 2017 OW, 9, 1, 0; 2017 OW_1, 3, 1, 0; 2017 OC_3, 6, 2, 13; 2017 OY_4, 3, 1, 0; 2017 OO_9, 3, 1, 0; 2017 OF_{10}, 3, 1, 0; 2017 OL_{11}, 3, 1, 0; 2017 OS_{11}, 3, 1, 0; 2017 OH_{17}, 3, 1, 0; 2017 ON_{20}, 3, 1, 0; 2017 OV_{25}, 3, 1, 0; 2017 OX_{29}, 3, 1, 0; 2017 OX_{48}, 3, 1, 0; 2017 OP_{49}, 3, 1, 0; 2017 OR_{49}, 3, 1, 0; 2017 OE_{50}, 3, 1, 0; 2017 OT_{52}, 3, 1, 0; 2017 OW_{53}, 3, 1, 0; 2017 OV_{56}, 3, 1, 0; 2017 OP_{57}, 3, 1, 0; 2017 OG_{59}, 6, 2, 28; 2017 OU_{60}, 3, 1, 0; 2017 OG_{62}, 3, 1, 0; 2017 PM_7, 3, 1, 0; 2017 QJ_{10}, 3, 1, 0; 2017 QQ_{34}, 3, 1, 0; 2017 RP_{10}, 6, 2, 2; 2017 RY_{13}, 3, 1, 0; 2017 SJ, 6, 2, 8; 2017 SS_3, 3, 1, 0; 2017 SM_5, 3, 1, 0; 2017 SB_{15}, 6, 2, 52; (5794), 2, 1, 0; (12589), 3, 1, 0; (18972), 3, 1, 0; (22842), 9, 3, 53; (25933), 6, 2, 390; (63252), 5, 2, 37; (113497), 5, 2, 560; (136060), 3, 1, 0; (334688), 2, 1, 0; (494660), 3, 1, 0; (495570), 2, 1, 0; (496216), 3, 1, 0; (496247), 3, 1, 0; (496324), 3, 1, 0; (496415), 3, 1, 0; (496483), 6, 2, 1419; (496490), 3, 1, 0; (496492), 3, 1, 0; (496541), 3, 1, 0; (496562), 3, 1, 0; (496565), 6, 2, 79; (496566), 3, 1, 0; (496567), 3, 1, 0; (496570), 3, 1, 0; (496580), 3, 1, 0; (496800), 3, 1, 0; *[1863, 423, 11*, 2001/04/17–2007/03/08]*

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Z. Ivezić, Department of Astrophysical Sciences, Peyton Hall, Princeton University, Princeton, NJ 08544, U.S.A. [ivezic@astro.princeton.edu]

Observer S. Digital Sky Survey Collaboration

Measurers S. Deen, M. T. Bannister, W. C. Fraser, P. Lacerda, M. Micheli, F. Ocaña

2.5-m reflector + CCD

2MASS, PPMXL

2000 RB_{108} *, 4, 2, 21; 2001 KX_{67}, 3, 1, 0; 2001 QQ_{297}, 3, 1, 0; 2001 QQ_{322}, 3, 1, 0; 2001 RX_{143}, 6, 2, 1130; 2001 RZ_{143}, 6, 2, 4; 2001 SU_{166}, 3, 1, 0; 2001 TO_{89}, 4, 1, 0; 2001 TN_{263}, 2, 1, 0; 2001 TS_{263} *, 2, 1, 0; 2001 UN_{18}, 3, 1, 0; 2001 US_{232}, 4, 2, 36; 2001 WW_{68}, 2, 1, 0; 2001 WK_{104} *, 2, 1, 0; 2002 CS_{154}, 3, 1, 0; 2002 CD_{251}, 3, 1, 0; 2002 FX_{36}, 3, 1, 0; 2002 GH_{166}, 3, 1, 0; 2002 QX_{81}, 4, 2, 28; 2002 RB_{296}, 2, 1, 0; 2002 UB_{80}, 2, 1, 0; 2002 VF_{130}, 3, 1, 0; 2002 VV_{130}, 3, 1, 0; 2002 VB_{131}, 6, 2, 13; 2002 VU_{149}, 2, 1, 0; 2003 BU_{35}, 2, 1, 0; 2003 BA_{95} *, 2, 1, 0; 2003 FD_{128}, 3, 1, 0; 2003 FA_{130}, 3, 1, 0; 2003 KJ_{37} *, 8, 3, 28; 2003 QQ_{91}, 3, 1, 0; 2003 QU_{91}, 2, 1, 0; 2003 QX_{111}, 3, 1, 0; 2003 QZ_{111}, 3, 1, 0; 2003 SU_{175}, 2, 1, 0; 2003 SN_{317}, 12, 4, 363; 2003 SO_{317}, 3, 1, 0; 2003 SQ_{317}, 6, 2, 718; 2003 SL_{419}, 2, 1, 0; 2003 TJ_{58}, 3, 1, 0; 2003 TK_{58}, 6, 2, 772; 2003 UT_{291}, 3, 1, 0; 2003 UG_{292}, 3, 1, 0; 2003 UY_{413}, 9, 3, 378; 2003 UA_{414}, 3, 1, 0; 2003 WO_2, 2, 1, 0; 2003 WO_{193}, 3, 1, 0; 2003 YY_8, 2, 1, 0; 2004 BP_{69}, 2, 1, 0; 2004 CJ_{39}, 3, 1, 0; 2004 DH_{64}, 6, 2, 271; 2004 EF_{51}, 2, 1, 0; 2004 GK_{85}, 2, 1, 0; 2004 RJ_5, 2, 1, 0; 2004 RQ_{251}, 2, 1, 0; 2004 SC_{60}, 3, 1, 0; 2004 TT_{357}, 6, 2, 414; 2004 VJ_1, 3, 1, 0; 2004 VS_{75}, 6, 2, 1128; 2004 VT_{75}, 6, 2, 1132; 2004 VM_{131}, 3, 1, 0; 2004 XV_{49}, 2, 1, 0; 2004 XX_{190}, 3, 1, 0; 2005 BW_{49}, 3, 1, 0; 2005 EE_{296}, 3, 1, 0; 2005 EB_{299}, 3, 1, 0; 2005 EC_{318}, 3, 1, 0; 2005 EW_{318}, 3, 1, 0; 2005 GB_{218}, 2, 1, 0; 2005 JM_3, 6, 2, 2; 2005 JS_{97}, 2, 1, 0; 2005 JP_{179}, 3, 1, 0; 2005 JW_{185}, 2, 1, 0; 2005 RQ_{43}, 9, 3, 1472; 2005 SD_{278}, 9, 3, 787; 2005 SE_{278}, 9, 3, 2491; 2005 SF_{278}, 12, 4, 1154; 2005 SO_{293}, 2, 1, 0; 2005 TN_{74}, 12, 4, 2923; 2005 UC_{180}, 2, 1, 0; 2005 UW_{518}, 2, 1, 0; 2005 VU_3, 6, 1, 0; 2005 YR_{204}, 3, 1, 0; 2006 AY_{107}, 2, 1, 0; 2006 BY_8, 3, 1, 0; 2006 BR_{284}, 3, 1, 0; 2006 DV_{62}, 3, 1, 0; 2006 DF_{95}, 2, 1, 0; 2006 FU_{39}, 2, 1, 0; 2006 JR_4, 2, 1, 0; 2006 JQ_9, 4, 2, 6; 2006 QS_6, 2, 1, 0; 2006 QT_{67}, 2, 1, 0; 2006 RW_{55}, 4, 1, 0; 2006 SF_{369}, 3, 1, 0; 2006 TO_{130}, 9, 3, 3690; 2006 TP_{130}, 6, 2, 3673; 2006 UZ_{184}, 7, 3, 414; 2007 CS_{79}, 3, 1, 0; 2007 DS_{101}, 3, 1, 0; 2007 EC_{114}, 2, 1, 0; 2007 EK_{138}, 2, 1, 0; 2007 FM_{51}, 3, 1, 0; 2007 GM_{41}, 2, 1, 0; 2007 LJ_{38}, 3, 1, 0; 2007 RT_{15}, 3, 1, 0; 2007 RX_{301}, 2, 1, 0; 2007 RL_{314}, 3, 1, 0; 2007 TH_7, 2, 1, 0; 2007 TK_{135}, 2, 1, 0; 2007 TH_{327}, 2, 1, 0; 2007 TG_{422}, 3, 1, 0; 2007 TZ_{454}, 2, 1, 0; 2007 UD_{25}, 2, 1, 0; 2007 VT_{188}, 2, 1, 0; 2007 VJ_{302}, 6, 1, 0; 2007 VJ_{305}, 3, 1, 0; 2007 VK_{305}, 17, 6, 2173; 2007 XV_{29}, 2, 1, 0; 2007 YX_{73}, 2, 1, 0; 2008 AO_{88}, 2, 1, 0; 2008 CQ_{101}, 2, 1, 0; 2008 CT_{190}, 6, 2, 25; 2008 FA_{55}, 2, 1, 0; 2008 FL_{138}, 4, 2, 22; 2008 GG_{32}, 2, 1, 0; 2008 JS_{14}, 3, 1, 0; 2008 LL_{18}, 4, 2, 115; 2008 PT_1, 3, 1, 0; 2008 QB_{43}, 3, 1, 0; 2008 RG_{97}, 2, 1, 0; 2008 SO_{266}, 3, 1, 0; 2008 TZ_1, 2, 1, 0; 2008 TO_{25}, 3, 1, 0; 2008 TB_{132}, 2, 1, 0; 2008 TR_{191}, 2, 1, 0; 2008 VZ_{78}, 2, 1, 0; 2008 YJ_{56}, 2, 1, 0; 2009 BC_{81}, 2, 1, 0; 2009 BZ_{161}, 2, 1, 0; 2009 BT_{183}, 2, 1, 0; 2009 BH_{192}, 2, 1, 0; 2009 FH_{57}, 2, 1, 0; 2009 QV_{19}, 3, 1, 0; 2009 SK_{220}, 2, 1, 0; 2009 UH_{91}, 2, 1, 0; 2009 US_{135}, 2, 1, 0; 2009 VV_{16}, 2, 1, 0; 2009 VX_{118}, 2, 1, 0; 2009 WA_{115}, 2, 1, 0; 2009 WB_{142}, 2, 1, 0; 2009 WF_{150}, 2, 1, 0; 2010 CV_{126}, 2, 1, 0; 2010 DD_{49}, 2, 1, 0; 2010 ET_{121}, 6, 3, 940; 2010 FX_4, 2, 1, 0; 2010 JM_{35}, 2, 1, 0; 2010 JO_{179}, 4, 1, 0; 2010 MS_{116}, 4, 2, 3; 2010 TS_{191}, 33, 9, 2923; 2010 UG_{77}, 2, 1, 0; 2010 UO_{83}, 4, 2, 795; 2010 VJ_{225}, 2, 1, 0; 2010 XB_{66}, 4, 2, 30; 2010 XQ_{91}, 2, 1, 0; 2011 BF_{53}, 2, 1, 0; 2011 BK_{157}, 2, 1, 0; 2011 CR_6, 2, 1, 0; 2011 CQ_{21}, 2, 1, 0; 2011 EC_8, 2, 1, 0; 2011 ES_{23}, 4, 2, 498; 2011 EO_{33}, 2, 1, 0; 2011 FK_5, 2, 1, 0; 2011 FP_{20}, 2, 1, 0; 2011 HM, 2, 1, 0; 2011 HC_{59}, 2, 1, 0; 2011 HY_{61}, 2, 1, 0; 2011 KP_{18}, 2, 1, 0; 2011 KF_{22}, 2, 1, 0; 2011 KL_{24}, 2, 1, 0; 2011 KO_{25}, 2, 1, 0; 2011 OG_{51}, 2, 1, 0; 2011 QU_{45}, 2, 1, 0; 2011 QD_{57}, 2, 1, 0; 2011 SX_5, 2, 1, 0; 2011 SW_{277}, 2, 1, 0; 2011 UZ_{224}, 2, 1, 0; 2011 XK_4, 2, 1, 0; 2011 YA_{38}, 2, 1, 0; 2012 BX_{21}, 2, 1, 0; 2012 BY_{34}, 2, 1, 0; 2012 CC_{55}, 2, 1, 0; 2012 DW_{16}, 2, 1, 0; 2012 EO_{18}, 2, 1, 0; 2012 FW_{62}, 2, 1, 0; 2012 FQ_{84}, 2, 1, 0; 2012 HO_9, 2, 1, 0; 2012 LL_{16}, 2, 1, 0; 2012 PO_6, 2, 1, 0; 2012 SS_{49}, 2, 1, 0; 2012 TO_9, 2, 1, 0; 2012 TR_{86}, 4, 2, 804; 2012 TA_{135}, 2, 1, 0; 2012 TP_{288}, 2, 1, 0; 2012 UX_{38}, 2, 1, 0; 2012 UK_{154}, 2, 1, 0; 2012 UY_{164}, 2, 1, 0; 2012 VX, 2, 1, 0; 2012 YR_5, 2, 1, 0; 2012 YB_7, 2, 1, 0; 2012 YT_9, 4, 2, 20; 2013 AU_{132}, 2, 1, 0; 2013 BV_{82}, 4, 2, 795; 2013 CU_{172}, 2, 1, 0; 2013 CF_{182}, 2, 1, 0; 2013 GU_7, 2, 1, 0; 2013 GZ_{51}, 2, 1, 0; 2013 GL_{72}, 2, 1, 0; 2013 GE_{133}, 2, 1, 0; 2013 PY_{74}, 2, 1, 0; 2013 RJ_{60}, 2,

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2015 EZ_8, 4, 2, 853; 2015 EE_{22}, 2, 1, 0; 2015 EF_{30}, 2, 1, 0; 2015 EU_{36}, 4, 2, 912; 2015 EC_{43}, 2, 1, 0; 2015 EH_{63}, 2, 1, 0; 2015 EL_{70}, 2, 1, 0; 2015 FW_{99}, 2, 1, 0; 2015 FD_{106}, 2, 1, 0; 2015 FU_{135}, 2, 1, 0; 2015 FG_{144}, 2, 1, 0; 2015 FV_{146}, 2, 1, 0; 2015 FC_{157}, 2, 1, 0; 2015 FL_{158}, 2, 1, 0; 2015 FV_{165}, 2, 1, 0; 2015 FB_{178}, 2, 1, 0; 2015 FE_{290}, 2, 1, 0; 2015 FT_{295}, 4, 2, 28; 2015 FJ_{319}, 2, 1, 0; 2015 FL_{343}, 2, 1, 0; 2015 FV_{347}, 4, 2, 1320; 2015 FL_{373}, 2, 1, 0; 2015 FL_{377}, 2, 1, 0; 2015 FS_{380}, 2, 1, 0; 2015 GR_{11}, 2, 1, 0; 2015 GE_{21}, 2, 1, 0; 2015 GZ_{35}, 2, 1, 0; 2015 GE_{40}, 2, 1, 0; 2015 GG_{42}, 2, 1, 0; 2015 GK_{43}, 2, 1, 0; 2015 GW_{50}, 2, 1, 0; 2015 HL_6, 2, 1, 0; 2015 HR_7, 2, 1, 0; 2015 HF_{16}, 2, 1, 0; 2015 HX_{36}, 2, 1, 0; 2015 HC_{103}, 2, 1, 0; 2015 KP_7, 4, 2, 471; 2015 KW_{50}, 4, 2, 24; 2015 KF_{105}, 4, 2, 500; 2015 KS_{130}, 2, 1, 0; 2015 KL_{163}, 2, 1, 0; 2015 OU_{32}, 2, 1, 0; 2015 OR_{80}, 2, 1, 0; 2015 PS_{45}, 4, 2, 535; 2015 PH_{80}, 2, 1, 0; 2015 PL_{204}, 2, 1, 0; 2015 QW_{11}, 6, 3, 27; 2015 RU_{11}, 4, 2, 25; 2015 RY_{237}, 2, 1, 0; 2015 RU_{246}, 2, 1, 0; 2015 SY_{21}, 2, 1, 0; 2015 SZ_{21}, 2, 1, 0; 2015 TX_{118}, 2, 1, 0; 2015 TO_{166}, 6, 2, 2176; 2015 TW_{166}, 4, 2, 54; 2015 TG_{351}, 2, 1, 0; 2015 TL_{351}, 2, 1, 0; 2015 TP_{351}, 2, 1, 0; 2015 TE_{352}, 2, 1, 0; 2015 US_{84}, 2, 1, 0; 2015 UT_{84}, 2, 1, 0; 2015 UG_{85}, 2, 1, 0; 2015 WR_{16}, 2, 1, 0; 2015 XW_{47}, 2, 1, 0; 2015 XU_{385}, 2, 1, 0; 2015 XR_{386}, 2, 1, 0; 2016 AN_{36}, 2, 1, 0; 2016 AL_{194}, 2, 1, 0; 2016 AD_{195}, 2, 1, 0; 2016 BY_9, 2, 1, 0; 2016 BH_{56}, 2, 1, 0; 2016 BH_{62}, 2, 1, 0; 2016 BH_{82}, 2, 1, 0; 2016 BK_{82}, 2, 1, 0; 2016 CQ_{143}, 2, 1, 0; 2016 CV_{258}, 4, 2, 446; 2016 CR_{259}, 4, 2, 1470; 2016 CN_{266}, 2, 1, 0; 2016 CP_{266}, 2, 1, 0; 2016 CC_{267}, 2, 1, 0; 2016 DC_{31}, 2, 1, 0; 2016 EG_{150}, 2, 1, 0; 2016 EL_{195}, 2, 1, 0; 2016 ET_{203}, 2, 1, 0; 2016 EB_{204}, 2, 1, 0; 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(447178), 12, 4, 33; (456826), 3, 1, 0; (469372), 3, 1, 0; (469704), 3, 1, 0; (470083), 3, 1, 0; (470523), 3, 1, 0; (496096), 2, 1, 0; (496247), 2, 1, 0; (496293), 2, 1, 0; (496398), 2, 1, 0; (496502), 2, 1, 0; (496565), 2, 1, 0; (496584), 2, 1, 0; (496643), 2, 1, 0; (496661), 2, 1, 0; (496679), 2, 1, 0; (496787), 2, 1, 0; (496808), 2, 1, 0; *[1783, 636, 5*, 1998/09/19–2009/11/17]*

649 Powell Observatory, Louisburg

L. Robinson, 14680 W 144 St., Olathe, KS 66062, U.S.A.
[lrobinsn@ix.netcom.com]

Observers R. Fredrick, R. Trentman, T. Medlock
0.75-m Newtonian + CCD, 0.3-m Schmidt-Cassegrain + CCD
USNO-A2.0, UCAC-2, USNO-B1.0

(496581), 4, 1, 0; *[4, 1, 0*, 2002/10/13]*

658 National Research Council of Canada

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

1.82-m Plaskett telescope + CCD
USNO-A2.0

2011 EB_7, 3, 1, 0; 2017 OD_7, 3, 1, 0; 2017 OF_7, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OR_{18}, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OX_{18}, 3, 1, 0; 2017 OF_{19}, 3, 1, 0; 2017 OX_{19}, 3, 1, 0; 2017 OE_{20}, 3, 1, 0; 2017 OG_{68}, 3, 1, 0; 2017 OU_{68}, 9, 3, 19; 2017 PL_{26}, 3, 1, 0; 2017 PA_{27}, 3, 1, 0; 2017 QF, 6, 2, 1; 2017 QR, 6, 2, 1; 2017 QR_1, 3, 1, 0; 2017 QQ_2, 3, 1, 0; 2017 QD_3, 3, 1, 0; 2017 QR_{16}, 3, 1, 0; 2017 QS_{16}, 5, 1, 0; 2017 QO_{33}, 12, 4, 5; 2017 SV_{13}, 3, 1, 0; 2017 SN_{14}, 3, 1, 0; 2017 SO_{14}, 3, 1, 0; 2017 SR_{14}, 3, 1, 0; 2017 SU_{14}, 3, 1, 0; 2017 SD_{17}, 3, 1, 0; 2017 SL_{17}, 6, 2, 1; 2017 SM_{17}, 3, 1, 0; 2017 SS_{17}, 3, 1, 0; 2017 SU_{17}, 3, 1, 0; 2017 SH_{18}, 3, 1, 0; 2017 SS_{19}, 6, 2, 1; *[131, 34, 0*, 2017/07/26–2017/09/29]*

673 Table Mountain Observatory, Wrightwood

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

Observers A. G. Carr, J. A. Dial
Measurers A. G. Carr, J. A. Dial, W. M. Owen Jr.
0.61-m $f/16$ reflector + CCD
UCAC-5

(3), 16, 7, 41; (5), 14, 7, 41; (6), 8, 4, 27; (10), 12, 6, 41; (23), 4, 2, 1; (25), 6, 3, 27; (28), 15, 7, 41; (40), 15, 8, 42; (69), 9, 5, 42; (76), 2, 1, 0; (81), 4, 2, 1; (83), 2, 1, 0; (84), 8, 4, 14; (128), 8, 4, 28; (148), 2, 1, 0; (160), 8, 5, 15; (164), 16, 8, 42; (171), 10, 4, 14; (174), 2, 1, 0; (205), 8, 4, 28; (210), 5, 3, 2; (216), 10, 5, 28; (219), 8, 4, 28; (239), 12, 6, 41; (241), 8, 2, 1; (256), 6, 3, 28; (261), 5, 3, 27; (267), 3, 1, 0; (270), 4, 2, 1; (307), 6, 3, 28; (318), 12, 6, 28; (329), 7, 4, 27; (339), 6, 3, 14; (346), 14, 8, 42; (347), 10, 6, 42; (358), 10, 5, 28; (363), 2, 1, 0; (366), 3, 2, 1; (368), 12, 6, 41; (401), 3, 1, 0; (409), 4, 2, 1; (412), 12, 6, 42; (414), 12, 5, 28; (419), 14, 7, 41; (455), 5, 2, 1; (456), 4, 2, 1; (476), 12, 6, 40; (481), 8, 4, 28; (485), 6, 3, 28; (503), 8, 4, 27; (506), 3, 1, 0; (507), 6, 3, 2; (510), 5, 3, 28; (511), 10, 5, 42; (524), 4, 2, 27; (527), 16, 8, 42; (537), 14, 7, 41; (539), 4, 2, 1; (541), 16, 8, 42; (545), 2, 1, 0; (567), 2, 1, 0; (568), 4, 2, 26; (582), 4, 2, 27; (583), 11, 5, 28; (591), 2, 1, 0; (601), 14, 7, 42; (643), 7, 3, 26; (654), 8, 4, 27; (656), 4, 2, 13; (691), 13, 7, 41; (712), 5, 2, 1; (718), 4, 2, 26; (734), 6, 3, 15; (748), 15, 7, 41; (804), 5, 2, 13; (816), 3, 1, 0; (834), 14, 7, 41; (882), 9, 4, 39; (959), 8, 4, 14; (983), 6, 3, 2; (1051), 2, 1, 0; (1074), 8, 4, 14;

(1085), 15, 7, 42; (1149), 11, 5, 27; (1154), 6, 3, 27; (1194), 5, 2, 1; (1258), 9, 4, 28; (1263), 14, 7, 40; (1332), 15, 7, 41; (1428), 2, 1, 0; (1437), 15, 7, 42; (1456), 4, 2, 1; (1574), 12, 6, 41; (1578), 2, 1, 0; (1596), 8, 4, 27; (1669), 3, 1, 0; (1678), 2, 1, 0; (1933), 2, 1, 0; (2010), 10, 3, 13; (2067), 7, 4, 14; (2260), 11, 6, 41; (2701), 6, 2, 1; (3063), 4, 2, 1; (3793), 10, 5, 28; (4057), 1, 1, 0; *[808, 105, 0∗, 2017/06/29–2017/08/10]*

675 Palomar Mountain

A. Waszczak, California Institute of Technology, Pasadena, CA 91125, U.S.A. [waszczak@caltech.edu] (33)
J. Masiero, no details supplied [joseph.masiero@jpl.nasa.gov] (37)
Observer E. Kramer
Measurer J. Masiero
5.0-m Hale reflector
Gaia-DR1

{37} 2017 RN_{17}, 4, 1, 0; *[4, 1, 0∗, 2017/09/20]*

{33} 2013 BU_{82}, 12, 1, 0; *[12, 1, 0∗, 2014/03/25]*

682 Kanab

E. Sheridan, 7205 Sunflower Lane, Kanab, UT 84741, U.S.A. [pushrod1931@xpressweb.com]
0.36-m $f/5.5$ Schmidt-Cassegrain + CCD
UCAC-2

2014 GX_{54}, 3, 1, 0; *[3, 1, 0∗, 2012/10/09]*

683 Goodricke-Pigott Observatory, Tucson

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

2005 QK_{95}, 3, 1, 0; 2015 XO_{12}, 3, 1, 0; (496493), 3, 1, 0; (496570), 3, 2, 1; *[12, 4, 0∗, 2004/02/26–2007/10/15]*

688 Lowell Observatory, Anderson Mesa Station

M. W. Buie, Southwest Research Institute, 1050 Walnut St., Suite 300, Boulder, CO 80302, U.S.A. [buie@boulder.swri.edu] (1)
L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu] (5)
Observer A. Thirouin
4-m Discovery Channel Telescope + CCD
USNO-A2.0

{1} 2006 AY_{51}, 2, 1, 0; 2016 CX_{149}, 4, 2, 8; 2016 CJ_{159}, 3, 1, 0; *[9, 3, 0∗, 1997/12/29–1998/02/06]*

{5} 2004 HR_{15}, 2, 1, 0; 2015 DJ_{197}, 2, 1, 0; 2016 GF_{32}, 2, 1, 0; *[6, 3, 0∗, 2008/02/07–2009/03/24]*

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

1989 UP, 7, 3, 14; 1995 OW_{11}, 3, 1, 0; 1995 UP_{59}, 3, 1, 0; 1996 SO_5, 3, 1, 0; 1996 VE_{42} ∗, 9, 3, 5860; 1998 SZ_{27}, 8, 3, 16; 1998 SS_{40}, 3, 1, 0; 1998 SR_{51}, 3, 1, 0; 1998 TM_1, 3, 1, 0; 1998 VH_{57} ∗, 9, 3, 5967; 1999 ET_2, 6, 2, 6; 1999 SU_3, 3, 1, 0; 1999 TZ_{226}, 3, 1, 0; 1999 TS_{312}, 3, 1, 0; 1999 UK_{12}, 6, 2, 4; 1999 UT_{36}, 3, 1, 0; 2000 AK_{258} ∗, 6, 2, 1183; 2000 CT_{150}, 9, 3, 5402; 2000 RB_{108}, 3, 1, 0; 2000 SH_5, 3, 1, 0; 2000 SJ_9, 3, 1, 0; 2000 SV_{43}, 6, 2, 13; 2000 SD_{77}, 6, 2, 1361; 2000 SC_{377}, 9, 3, 2953; 2000 UF_{44}, 6, 2, 1; 2000 WO_{198} ∗, 6, 2, 2924; 2000 WP_{198} ∗, 9, 3, 5410; 2000 XG_{24}, 3, 1, 0; 2000 YG_{29}, 3, 1, 0; 2001 QN_{186}, 6, 2, 2; 2001 RR_{111}, 3, 1, 0; 2001 RW_{119}, 3, 1, 0; 2001 SU_{166}, 6, 2, 4; 2001 SN_{210}, 3, 1, 0; 2001 SV_{229}, 3, 1, 0; 2001 SN_{336}, 3, 1, 0; 2001 SW_{356}, 3, 1, 0; 2001 UN_{67}, 9, 3, 1235; 2001 UA_{143}, 3, 1, 0; 2001 UQ_{163}, 3, 1, 0; 2001 UM_{186}, 3, 1, 0; 2001 US_{193}, 3, 1, 0; 2001 UU_{200}, 3, 1, 0; 2001 UC_{229}, 9, 3, 773; 2001 UN_{232}, 12, 4, 6831; 2001 UR_{232}, 9, 3, 4337; 2001 WO_{33}, 3, 1, 0; 2001 WC_{66}, 3, 1, 0; 2001 WW_{68}, 6, 2, 2194; 2001 WK_{104}, 18, 6, 2398; 2001 XV_{14}, 3, 1, 0; 2001 YR_1, 3, 1, 0; 2002 BT_{32}, 3, 1, 0; 2002 CV_{17}, 3, 1, 0; 2002 CZ_{44}, 3, 1, 0; 2002 DF_8, 3, 1, 0; 2002 EV_{38}, 3, 1, 0; 2002 FA_{42}, 12, 4, 4024; 2002 GV_{189}, 3, 1, 0; 2002 GB_{192} ∗, 15, 5, 2903; 2002 GC_{192}, 3, 1, 0; 2002 JT_{151}, 9, 3, 1835; 2002 LC_{52}, 3, 1, 0; 2002 OE_{37}, 3, 1, 0; 2002 PM_{17}, 6, 2, 7; 2002 PV_{36}, 3, 1, 0; 2002 PQ_{40}, 3, 1, 0; 2002 PB_{203}, 3, 1, 0; 2002 QX_{81}, 3, 1, 0; 2002 QW_{82}, 3, 1, 0; 2002 QV_{92}, 3, 1, 0; 2002 QT_{107}, 6, 2, 1; 2002 QD_{132}, 3, 1, 0; 2002 RP_{122}, 6, 2, 5; 2002 RP_{263}, 3, 1, 0; 2002 RO_{272}, 6, 2, 4; 2002 RU_{295}, 3, 1, 0; 2002 RE_{296}, 9, 3, 3664; 2002 SF_{67}, 3, 1, 0; 2002 SO_{75}, 3, 1, 0; 2002 TQ_{115}, 3, 1, 0; 2002 TO_{123}, 3, 1, 0; 2002 TQ_{146}, 3, 1, 0; 2002 TC_{153}, 3, 1, 0; 2002 TB_{234}, 3, 1, 0; 2002 TJ_{247}, 3, 1, 0; 2002 TY_{384}, 3, 1, 0; 2002 TY_{386}, 3, 1, 0; 2002 TU_{388}, 3, 1, 0; 2002 UF_4, 3, 1, 0; 2002 UX_{34}, 6, 2, 1750; 2002 UY_{54}, 3, 1, 0; 2002 UR_{78}, 3, 1, 0; 2002 UB_{80}, 6, 2, 2711; 2002 VN_{149}, 9, 3, 3757; 2002 WY_{22}, 3, 1, 0; 2002 WL_{32}, 6, 2, 22; 2002 XN_{99}, 6, 2, 1394; 2002 XQ_{121}, 3, 1, 0; 2003 AO_{22}, 3, 1, 0; 2003 BM_{33}, 3, 1, 0; 2003 BX_{94}, 12, 4, 3194; 2003 DZ_{20}, 3, 1, 0; 2003 FJ, 3, 1, 0; 2003 FB_8, 3, 1, 0; 2003 FX_{65}, 9, 3, 2876; 2003 GD_{53}, 12, 4, 3988; 2003 GQ_{57} ∗, 9, 3, 4396; 2003 GR_{57} ∗, 9, 3, 2363; 2003 RV, 3, 1, 0; 2003 SG, 3, 1, 0; 2003 SK_{42}, 6, 2, 1807; 2003 SU_{175}, 3, 1, 0; 2003 SB_{262}, 3, 1, 0; 2003 SE_{263}, 3, 1, 0; 2003 SC_{349}, 3, 1, 0; 2003 SA_{367}, 3, 1, 0; 2003 SL_{419}, 3, 1, 0; 2003 SA_{435}, 3, 1, 0; 2003 UA_{32}, 3, 1, 0; 2003 UD_{40}, 3, 1, 0; 2003 UD_{172}, 3, 1, 0; 2003 UQ_{338}, 3, 1, 0; 2003 VP_2, 3, 1, 0; 2003 VK_7, 3, 1, 0; 2003 WO_2, 6, 2, 456; 2003 WY_{154}, 6, 2, 6910; 2003 YN_2, 3, 1, 0; 2004 AB_7, 3, 1, 0; 2004 BR_{24}, 3, 1, 0; 2004 BD_{26}, 3, 1, 0; 2004 BN_{134}, 6, 2, 2726; 2004 BX_{163} ∗, 3, 1, 0; 2004 BY_{163} ∗, 12, 4, 3557; 2004 BZ_{163} ∗, 9, 2, 1247; 2004 CX, 6, 2, 5311; 2004 CL_{17}, 3, 1, 0; 2004 DZ_{24}, 3, 1, 0; 2004 EH_{116} ∗, 3, 1, 0; 2004 FM_{23}, 6, 2, 1439; 2004 FQ_{53}, 3, 1, 0; 2004 FK_{112}, 3, 1, 0; 2004 GL_{84}, 3, 1, 0; 2004 GK_{85}, 15, 5, 4794; 2004 HR_{15}, 3, 1, 0; 2004 KO_{19} ∗, 6, 2, 462; 2004 LF_2, 3, 1, 0; 2004 LL_{23}, 3, 1, 0; 2004 NO_6, 3, 1, 0; 2004 PE_{13}, 3, 1, 0; 2004 PB_{43}, 6, 2, 9; 2004 PT_{68}, 3, 1, 0; 2004 PV_{77}, 3, 1, 0; 2004 PX_{80}, 3, 1, 0; 2004 QE_2, 3, 1, 0; 2004 QO_{13}, 3, 1, 0; 2004 QU_{15}, 3, 1, 0; 2004 RN_{10}, 3, 1, 0; 2004 RD_{24}, 3, 1, 0; 2004 RG_{39}, 6, 2, 11; 2004 RU_{50}, 3, 1, 0; 2004 RE_{84}, 6, 2, 1; 2004 RW_{84}, 3, 1, 0; 2004 RX_{109}, 3, 1, 0; 2004 RP_{144}, 3, 1, 0; 2004 RG_{194}, 3, 1, 0; 2004 RF_{198}, 3, 1, 0; 2004 RP_{275}, 3, 1, 0; 2004 RH_{316}, 6, 2, 2; 2004 RG_{346}, 6, 2, 1; 2004 RJ_{357} ∗, 15, 4, 2903; 2004 SZ_{52}, 9, 3, 4744; 2004 TD_{10}, 3, 1, 0; 2004 TB_{22}, 3, 1, 0; 2004 TJ_{215}, 3, 1, 0; 2004 TU_{226}, 6, 2, 3980; 2004 TX_{228}, 9, 3, 1896; 2004 TN_{278}, 3, 1, 0; 2004 TP_{314}, 6, 2, 524; 2004 TX_{359}, 6, 2, 35; 2004 TN_{371} ∗, 9, 3, 2909; 2004 TO_{371}, 6, 2, 2920; 2004 VY_{36}, 3, 1, 0; 2004 XK_{98}, 3, 1, 0; 2004 XA_{143}, 3, 1, 0; 2004 XS_{157}, 12, 4, 3598; 2005 EN_{15}, 6, 2, 19; 2005 ES_{42}, 3, 1, 0; 2005 EN_{204}, 9, 3, 8011; 2005 EY_{225}, 9, 3, 513; 2005 EO_{279}, 3, 1, 0; 2005 FA_1, 6, 2, 3458; 2005 GK_3, 3, 1, 0; 2005 GH_{18}, 3, 1, 0; 2005 GC_{35}, 3, 1, 0; 2005 GU_{201}, 3, 1, 0; 2005 GB_{218}, 12, 3, 5112; 2005 JQ_{47}, 3, 1, 0; 2005 JJ_{63}, 12, 4, 8216; 2005 JT_{149}, 6, 2, 4557; 2005 JX_{172}, 6, 1, 0; 2005 LQ_{12}, 3, 1, 0; 2005 NM_{82}, 3, 1, 0; 2005 PG_{29}, 3, 1, 0; 2005 QK_{95}, 6, 2, 4567; 2005 RN_{28}, 3, 1, 0; 2005 RO_{52} ∗, 15, 5, 1090; 2005 SB_{56}, 3, 1, 0; 2005 SU_{76}, 3, 1, 0; 2005 SS_{84}, 3, 1, 0; 2005 SB_{86}, 3, 1, 0; 2005 SO_{293}, 3, 1, 0; 2005 TO_{99}, 3, 1, 0; 2005 TU_{123}, 6, 2, 3; 2005 TD_{149}, 3, 1, 0; 2005 TF_{195}, 3, 1, 0; 2005 TG_{198}, 9, 3, 3338; 2005 TH_{198}, 6, 2, 2942; 2005 TJ_{198}, 9, 3, 3194; 2005 TK_{198}, 6, 2, 39; 2005 UK_{11}, 3, 1, 0; 2005 UQ_{91}, 9, 3, 1426; 2005 UX_{97}, 3, 1, 0; 2005 UL_{121}, 3, 1, 0; 2005 UN_{157}, 2, 1, 0; 2005 UD_{169}, 3, 1, 0; 2005 UB_{192}, 3, 1, 0; 2005 UH_{260}, 9, 2, 1; 2005 UB_{281}, 6, 2, 7; 2005 UX_{497}, 6, 2, 588; 2005 UB_{526}, 6, 1, 0; 2005 UK_{532} ∗, 3, 1, 0; 2005 UL_{532}, 6, 2, 2908; 2005 VJ_{135}, 3, 1, 0; 2005 VN_{137} ∗, 6, 2, 404; 2005 WZ_{30}, 3, 1, 0; 2005 WN_{96}, 3, 1, 0; 2005 WV_{186}, 3, 1, 0; 2005 WJ_{212} ∗, 3, 1, 0; 2005 XP_{119}, 12, 4, 1625; 2005 XQ_{119}, 12, 4, 425; 2005 XR_{119} ∗, 12, 4, 2941; 2005 YK_7, 3, 1, 0; 2005 YA_{19}, 3, 1, 0; 2005 YT_{137}, 6, 2, 953; 2005 YC_{147}, 6, 2, 4251; 2005 YU_{216}, 3, 1, 0; 2006 AH_{23}, 3, 1, 0; 2006 AX_{69}, 3, 1, 0; 2006 AP_{105}, 6, 2, 4314; 2006 AY_{107} ∗, 3, 1, 0; 2006 BL_6, 3, 1, 0; 2006 BQ_{13}, 6, 2, 29; 2006 BB_{51}, 6, 2, 1892; 2006 BN_{102}, 3, 1, 0; 2006 BH_{163}, 3, 1, 0; 2006 BH_{204}, 3, 1, 0; 2006 BF_{234}, 9, 3, 3308; 2006 CG_{26}, 3, 1, 0; 2006 DR, 3, 1, 0; 2006 DS_4, 3, 1, 0; 2006 DO_{17}, 3, 1, 0; 2006 DR_{45}, 3, 1, 0; 2006 DF_{95}, 3, 1, 0; 2006 DJ_{146}, 3, 1, 0; 2006 DA_{177}, 3, 1, 0; 2006 DG_{219}, 3, 1, 0; 2006 EJ_{73}, 3, 1, 0; 2006 EW_{73}, 2, 1, 0; 2006 FA_2, 3, 1, 0; 2006 FV_{55} ∗, 6, 2, 3811; 2006 FW_{55}, 6, 2, 440; 2006 GZ_{45}, 6, 2, 30; 2006 HJ_{24}, 3, 1, 0; 2006 HB_{25}, 3, 1, 0; 2006 HE_{106}, 3, 1, 0; 2006 HL_{114}, 3, 1, 0; 2006 KB_{27}, 9, 3, 2127; 2006 KX_{39}, 3, 1, 0; 2006 KL_{52}, 6, 2, 16; 2006 MF, 3, 1, 0; 2006 OH_{15}, 3, 1, 0; 2006 PP_{20}, 3, 1, 0; 2006 PR_{21}, 3, 1, 0; 2006 PK_{33}, 3, 1, 0; 2006 PF_{42}, 3, 1, 0; 2006 QK_4, 3, 1, 0; 2006 QY_4, 3, 1, 0; 2006 QH_6, 3, 1, 0; 2006 QY_{10}, 3, 1, 0; 2006 QL_{20}, 3, 1, 0; 2006 QL_{39}, 3, 1, 0; 2006 QD_{50}, 3, 1, 0; 2006 QT_{72}, 3, 1, 0; 2006 QZ_{72}, 3, 1, 0; 2006 QE_{142}, 3, 1, 0; 2006 RK_{11}, 3, 1, 0; 2006 RL_{13}, 3, 1, 0; 2006 RQ_{43}, 3, 1, 0; 2006 RW_{55}, 6, 2, 3994; 2006 RS_{56}, 3, 1, 0; 2006 RO_{61}, 3, 1, 0; 2006 RA_{72}, 3, 1, 0; 2006 RW_{75}, 3, 1, 0; 2006 RV_{87}, 3, 1, 0; 2006 RP_{88}, 1, 1, 0; 2006 RP_{94}, 3, 1, 0; 2006 RS_{96}, 3, 1, 0; 2006 ST_{64}, 3, 1, 0; 2006 SZ_{72}, 3, 1, 0; 2006 SR_{97}, 3, 1, 0; 2006 SP_{98}, 3, 1, 0; 2006 SY_{129}, 3, 1, 0; 2006 SK_{131}, 3, 1, 0; 2006 SZ_{142}, 3, 1, 0; 2006 SR_{145}, 3, 1, 0; 2006 SB_{148}, 6, 2, 2; 2006 SL_{151}, 3, 1, 0; 2006 SJ_{158}, 6, 2, 7996; 2006 SD_{179},

3, 1, 0; 2006 SS_{182}, 3, 1, 0; 2006 SD_{184}, 3, 1, 0; 2006 SA_{220}, 3, 1, 0; 2006 SH_{234}, 9, 3, 4199; 2006 SO_{264}, 3, 1, 0; 2006 SY_{296}, 3, 1, 0; 2006 SQ_{311}, 3, 1, 0; 2006 SG_{313}, 6, 2, 11; 2006 SS_{326}, 6, 2, 14; 2006 SM_{331}, 9, 3, 2928; 2006 SW_{334}, 3, 1, 0; 2006 SR_{367}, 12, 4, 4935; 2006 ST_{376}, 3, 1, 0; 2006 SM_{378}, 3, 1, 0; 2006 SS_{388}, 3, 1, 0; 2006 SD_{400}, 3, 1, 0; 2006 SB_{412}, 3, 1, 0; 2006 TM_2, 3, 1, 0; 2006 TU_7, 3, 1, 0; 2006 TJ_{70}, 3, 1, 0; 2006 TY_{79}, 3, 1, 0; 2006 TV_{113}, 3, 1, 0; 2006 TE_{119}, 6, 2, 11; 2006 TK_{119}, 3, 1, 0; 2006 TC_{130}, 3, 1, 0; 2006 TA_{131}, 3, 1, 0; 2006 UZ_{16}, 3, 1, 0; 2006 UJ_{19}, 3, 1, 0; 2006 UC_{54}, 6, 2, 1; 2006 UK_{149}, 6, 2, 416; 2006 UO_{163}, 3, 1, 0; 2006 UN_{211}, 3, 1, 0; 2006 UB_{283}, 3, 1, 0; 2006 UC_{290}, 6, 1, 0; 2006 UR_{359}, 3, 1, 0; 2006 UV_{362} *, 15, 5, 2937; 2006 UW_{362} *, 9, 3, 2922; 2006 VT_{38}, 3, 1, 0; 2006 VZ_{53}, 3, 1, 0; 2006 VK_{58}, 3, 1, 0; 2006 WO_{105}, 3, 1, 0; 2006 WR_{150}, 9, 3, 578; 2006 WP_{207}, 6, 2, 14; 2006 WQ_{207} *, 6, 2, 2977; 2006 YV_{43}, 3, 1, 0; 2007 AT_{24}, 3, 1, 0; 2007 BB_{103} *, 6, 2, 10; 2007 CY_{26}, 3, 1, 0; 2007 DC_{44}, 3, 1, 0; 2007 DJ_{58}, 6, 2, 5967; 2007 DY_{94}, 3, 1, 0; 2007 DO_{118} *, 3, 1, 0; 2007 EH_{50}, 3, 1, 0; 2007 EP_{84}, 3, 1, 0; 2007 EG_{111}, 3, 1, 0; 2007 EN_{224}, 6, 2, 420; 2007 ER_{225} *, 6, 2, 2024; 2007 ES_{225}, 15, 5, 4051; 2007 EU_{225}, 3, 1, 0; 2007 FW, 6, 2, 17; 2007 FA_{17}, 3, 1, 0; 2007 FU_{51}, 3, 1, 0; 2007 GP_{18}, 3, 1, 0; 2007 GP_{66}, 3, 1, 0; 2007 HL_{22}, 3, 1, 0; 2007 HU_{79}, 3, 1, 0; 2007 JW_{39}, 3, 1, 0; 2007 JK_{46} *, 12, 4, 2368; 2007 JL_{46} *, 9, 3, 2930; 2007 LY_{19}, 3, 1, 0; 2007 MV_3, 3, 1, 0; 2007 PT_{27}, 3, 1, 0; 2007 RR_{15}, 3, 1, 0; 2007 RV_{43}, 3, 1, 0; 2007 RA_{70}, 3, 1, 0; 2007 RO_{90}, 3, 1, 0; 2007 RO_{97}, 3, 1, 0; 2007 RV_{97}, 3, 1, 0; 2007 RU_{104}, 3, 1, 0; 2007 RA_{150}, 3, 1, 0; 2007 RX_{167}, 6, 2, 8; 2007 RH_{169}, 3, 1, 0; 2007 RR_{199}, 3, 1, 0; 2007 RT_{260}, 3, 1, 0; 2007 RE_{270}, 3, 1, 0; 2007 RN_{276}, 3, 1, 0; 2007 RB_{297}, 9, 3, 9121; 2007 RF_{327}, 3, 1, 0; 2007 RG_{327}, 3, 1, 0; 2007 RH_{327} *, 6, 2, 2914; 2007 SD_3, 3, 1, 0; 2007 SQ_{24} *, 6, 2, 1280; 2007 TG_{19}, 3, 1, 0; 2007 TU_{39}, 3, 1, 0; 2007 TP_{43}, 24, 8, 2938; 2007 TN_{56}, 3, 1, 0; 2007 TL_{58}, 6, 1, 0; 2007 TR_{65}, 3, 1, 0; 2007 TF_{138}, 3, 1, 0; 2007 TV_{152}, 3, 1, 0; 2007 TU_{177}, 3, 1, 0; 2007 TX_{200}, 3, 1, 0; 2007 TW_{254}, 3, 1, 0; 2007 TM_{269}, 3, 1, 0; 2007 TW_{271}, 3, 1, 0; 2007 TU_{283}, 3, 1, 0; 2007 TH_{318}, 6, 2, 5824; 2007 TV_{372}, 3, 1, 0; 2007 TH_{393}, 6, 2, 2; 2007 TD_{404}, 3, 1, 0; 2007 TU_{412}, 3, 1, 0; 2007 TZ_{442}, 3, 1, 0; 2007 TL_{451}, 3, 1, 0; 2007 TW_{452}, 3, 1, 0; 2007 TY_{454} *, 18, 5, 1984; 2007 TZ_{454}, 3, 1, 0; 2007 UF_{20}, 3, 1, 0; 2007 UX_{21}, 3, 1, 0; 2007 UD_{53}, 3, 1, 0; 2007 UA_{75}, 9, 2, 2977; 2007 UM_{84}, 3, 1, 0; 2007 UY_{86}, 3, 1, 0; 2007 US_{88}, 3, 1, 0; 2007 UB_{93}, 3, 1, 0; 2007 UC_{114}, 3, 1, 0; 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695 Kitt Peak

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 Laboratories, 600 Mountain Ave., Murray Hill, NJ 07974, U.S.A. [wittman@physics.bell-labs.com] (3)

C. W. Hergenrother, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [chergen@pirl.lpl.arizona.edu] (5)

D. E. Trilling, Dept. of Physics and Astronomy, University of Pennsylvania, 209 S. 33rd Street, Philadelphia, PA 19104, U.S.A. (21)
L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu] (23)
R. S. McMillan, Lunar and Planetary Laboratory, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu] (28)
R. Gelderman, Physics & Astronomy Dept, Western Kentucky University, Bowling Green, Kentucky 42101-1077, U.S.A. [rct.wku@gmail.com] (31)
Observers R. S. McMillan, J. V. Scotti, M. J. Brucker, K. D. Butler, J. A. Larsen, D. M. Williams, A. M. Paat, M. T. Read, A. F. Tubbiolo, R. A. Mastaler
4-m $f/2.8$ reflector + CCD, 2.3-m $f/9$ reflector + CCD
USNO-B1.0

{21} 2013 PJ_{75}, 2, 1, 0; 2015 BJ_{512}, 3, 1, 0; 2015 BN_{513}, 4, 2, 4; 2015 FR_{393}, 2, 1, 0; 2015 SX_{21}, 2, 1, 0; 2016 AW_7, 2, 1, 0; *[15, 6, 0*, 2004/02/11–2006/04/07]*

{23} 2004 TO_{371} *, 4, 2, 862; 2007 DJ_{58}, 2, 1, 0; 2014 SG_{124}, 2, 1, 0; 2015 BQ_{72}, 2, 1, 0; 2015 BZ_{140}, 2, 1, 0; 2015 BW_{222}, 2, 1, 0; 2015 BD_{469}, 2, 1, 0; 2015 BC_{475}, 3, 1, 0; 2015 BX_{519}, 2, 1, 0; 2016 EL_{195}, 2, 1, 0; 2016 FY_6, 2, 1, 0; 2017 OL_{55}, 3, 1, 0; 2017 OG_{61}, 2, 1, 0; 2017 QM_4, 2, 1, 0; *[32, 14, 1*, 2004/10/10–2007/02/21]*

{1} 1998 VH_{57}, 3, 1, 0; 2000 CT_{150} *, 2, 1, 0; 2000 SC_{377} *, 3, 1, 0; 2002 RG_{296}, 2, 1, 0; 2002 VU_{149} *, 2, 1, 0; 2002 XQ_{121} *, 2, 1, 0; 2004 QE_2, 2, 1, 0; 2005 ER_{333}, 2, 1, 0; 2006 DK_{142}, 2, 1, 0; 2006 SM_{172}, 3, 1, 0; 2006 UR_{359}, 2, 1, 0; 2007 DF_{24}, 2, 1, 0; 2007 EU_{225}, 3, 1, 0; 2007 RL_{192}, 2, 1, 0; 2008 AV_{138}, 2, 1, 0; 2008 GG_{32}, 2, 1, 0; 2008 OS_{24}, 2, 1, 0; 2008 RM_{122}, 3, 1, 0; 2008 WA_{17}, 2, 1, 0; 2008 XP_{18}, 2, 1, 0; 2009 DR_{42}, 2, 1, 0; 2010 OT_{35}, 2, 1, 0; 2010 RL_{188}, 2, 1, 0; 2010 TH_{35}, 2, 1, 0; 2010 TL_{163}, 2, 1, 0; 2010 VM_{225}, 2, 1, 0; 2011 HY_{61}, 2, 1, 0; 2011 KO_{25}, 2, 1, 0; 2011 QZ_{23}, 2, 1, 0; 2011 SX_5, 2, 1, 0; 2011 SE_{136}, 3, 1, 0; 2011 UR_{413}, 2, 1, 0; 2012 BX_{21}, 2, 1, 0; 2012 SZ_{20}, 2, 1, 0; 2012 TL_{59}, 2, 1, 0; 2012 UF_{166}, 2, 1, 0; 2013 BR_{82}, 2, 1, 0; 2013 EU_{154}, 4, 2, 2; 2013 KC_9, 2, 1, 0; 2013 NY_{20}, 2, 1, 0; 2013 NQ_{24}, 2, 1, 0; 2013 RZ_{98}, 2, 1, 0; 2014 QY_{198}, 2, 1, 0; 2014 SU_{338}, 2, 1, 0; 2014 SC_{351} *, 3, 1, 0; 2014 TT_{22}, 2, 1, 0; 2014 TM_{60}, 2, 1, 0; 2014 UP_{41}, 3, 1, 0; 2014 UV_{124}, 2, 1, 0; 2014 UZ_{135}, 2, 1, 0; 2014 WT_{511}, 2, 1, 0; 2015 AQ_{272}, 2, 1, 0; 2015 BA_{16}, 2, 1, 0; 2015 BK_{34}, 2, 1, 0; 2015 BL_{109}, 2, 1, 0; 2015 BL_{167}, 2, 1, 0; 2015 BC_{246}, 2, 1, 0; 2015 BT_{251}, 2, 1, 0; 2015 BJ_{266}, 2, 1, 0; 2015 BO_{292}, 2, 1, 0; 2015 BK_{316}, 2, 1, 0; 2015 BM_{356}, 2, 1, 0; 2015 BS_{413}, 4, 1, 0; 2015 BQ_{420}, 2, 1, 0; 2015 BR_{426}, 2, 1, 0; 2015 BT_{442}, 2, 1, 0; 2015 BL_{483}, 4, 1, 0; 2015 BY_{493}, 2, 1, 0; 2015 BY_{519}, 4, 2, 1; 2015 BE_{521}, 2, 1, 0; 2015 BF_{521}, 2, 1, 0; 2015 CZ_9, 2, 1, 0; 2015 CQ_{32}, 2, 1, 0; 2015 CB_{58}, 2, 1, 0; 2015 DN_9, 2, 1, 0; 2015 DJ_{214}, 2, 1, 0; 2015 EV_{12}, 2, 1, 0; 2015 ES_{35}, 2, 1, 0; 2015 EX_{38}, 2, 1, 0; 2015 EE_{62}, 2, 1, 0; 2015 FX_{388}, 2, 1, 0; 2015 GM_{31}, 2, 1, 0; 2015 GV_{50} *, 3, 1, 0; 2015 KP_{163}, 2, 1, 0; 2015 YA_4, 2, 1, 0; 2016 EJ_{73}, 2, 1, 0; 2016 FG_{29}, 2, 1, 0; 2016 FT_{49}, 2, 1, 0; 2016 GZ_6, 3, 1, 0; 2016 GH_{43}, 2, 1, 0; 2016 GE_{110}, 2, 1, 0; 2016 GK_{129}, 2, 1, 0; 2016 GX_{133}, 2, 1, 0; 2016 GD_{174}, 3, 1, 0; 2016 GH_{210}, 2, 1, 0; 2016 HE_6, 2, 1, 0; 2016 JY_{38}, 2, 1, 0; 2016 LW_{31}, 2, 1, 0; 2016 SF_{31}, 2, 1, 0; 2017 NN_1, 2, 1, 0; 2017 OF_9, 2, 1, 0; 2017 OV_9, 2, 1, 0; 2017 OB_{22}, 2, 1, 0; 2017 OC_{31}, 2, 1, 0; 2017 OE_{50}, 2, 1, 0; 2017 OJ_{53}, 2, 1, 0; 2017 OT_{59}, 2, 1, 0; 2017 OF_{60}, 2, 1, 0; 2017 PH, 2, 1, 0; 2017 PM_7, 3, 1, 0; 2017 PT_{12}, 2, 1, 0; 2017 QW_7, 2, 1, 0; 2017 QS_{18}, 2, 1, 0; 2017 SA_9, 2, 1, 0; (496463), 2, 1, 0; *[250, 115, 6*, 2000/02/05–2015/05/22]*

{3} 2015 BQ_{116}, 13, 2, 3; 2015 BX_{163}, 5, 1, 0; 2015 FZ_{373}, 7, 2, 445; 2015 FE_{393}, 4, 1, 0; 2016 FJ_5, 4, 1, 0; *[33, 5, 0*, 2000/11/25–2004/03/26]*

{5} 2012 UP_{106}, 3, 1, 0; *[3, 1, 0*, 1994/04/06]*

{28} 1999 VM_{11}, 5, 1, 0; 2002 FD_6, 3, 1, 0; 2005 UT_{64}, 3, 1, 0; 2005 UN_{157}, 9, 1, 0; 2006 TU_7, 9, 2, 5; 2010 CP_{140}, 2, 1, 0; 2011 VQ_5, 3, 1, 0; 2012 DP_8, 3, 1, 0; 2012 EC, 8, 1, 0; 2012 TC_4, 6, 2, 1; 2012 TV_{78}, 6, 1, 0; 2013 EM_{20}, 3, 1, 0; 2014 QO_{296}, 2, 1, 0; 2014 SD_{224}, 6, 1, 0; 2014 WF_{365}, 6, 1, 0; 2014 YY_8, 3, 1, 0; 2015 LV_{24}, 2, 1, 0; 2016 CQ_{23}, 6, 1, 0; 2016 WJ_1, 7, 1, 0; 2017 BL_{30}, 3, 1, 0; 2017 BM_{123}, 6, 1, 0; 2017 CS, 3, 1, 0; 2017 HH, 6, 1, 0; 2017 LU, 3, 1, 0; 2017 LW, 2, 1, 0; 2017 NH, 2, 1, 0; 2017 NM_6, 9, 2, 62; 2017 OL_1, 3, 1, 0; 2017 OP_{19}, 5, 2, 24; 2017 PL_{26}, 3, 1, 0; 2017 PV_{26}, 3, 1, 0; 2017 QX_1, 3, 1, 0; 2017 QD_{36}, 3, 1, 0; 2017 RL, 5, 2, 3; 2017 RN, 5, 1, 0; 2017 RP, 6, 1, 0; 2017 RQ, 6, 1, 0; 2017 RS, 9, 1, 0; 2017 RW, 3, 1, 0; 2017 RX, 9, 1, 0; 2017 RY, 3, 1, 0; 2017 RZ, 2, 1, 0; 2017 RB_1, 3, 1, 0; 2017 RC_1, 3, 1, 0; 2017 RE_1, 3, 1, 0; 2017 RF_1, 3, 1, 0; 2017 RL_1, 2, 1, 0; 2017 RY_1, 3, 1, 0; 2017 SQ_2, 3, 1, 0; 2017 SM_{14}, 3, 1, 0; 2017 SN_{18}, 2, 1, 0; 2017 SP_{18}, 2, 1, 0; 2017 SQ_{18}, 3, 1, 0; 2017 SU_{18}, 3, 1, 0; 2017 SE_{19}, 3, 1, 0; 2017 SG_{19}, 3, 1, 0; 2017 SH_{19}, 3, 1, 0; 2017 SK_{19}, 3, 1, 0; 2017 ST_{19}, 3, 1, 0; 2017 SF_{20}, 3, 1, 0; 2017 SJ_{20}, 3, 1, 0; 2017 SL_{20}, 3, 1, 0; 2017 SM_{20}, 3, 1, 0; 2017 SN_{20}, 3, 1, 0; 2017 SO_{20}, 3, 1, 0; 2017 SQ_{20}, 3, 1, 0; 2017 SU_{20}, 3, 1, 0; *[266, 67, 0*, 2016/04/21–2017/10/01]*

{31} 2013 TT_{59}, 3, 1, 0; *[3, 1, 0*, 2012/03/29]*

696 Whipple Observatory, Mt. Hopkins

C. W. Hergenrother, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [chergen@pirl.lpl.arizona.edu] (1)
T. B. Spahr, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [tspahr@cfa.harvard.edu] (7)

{1} 2007 WB_{62}, 1, 1, 0; *[1, 1, 0*, 1998/01/20]*

{7} 2015 BP_{389}, 2, 1, 0; *[2, 1, 0*, 2002/05/05]*

{47} 2007 WB_{62}, 1, 1, 0; *[1, 1, 0*, 1998/01/20]*

699 Lowell Observatory-LONEOS

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

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S. M. Larson, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [slarson@lpl.arizona.edu]
Observers J. A. Johnson, R. A. Kowalski, G. J. Leonard, D. C. Fuls, A. R. Gibbs, 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, M.-T. Hui
0.68-m Schmidt + CCD
UCAC-4, PPMXL

1989 UP, 12, 3, 12; 1995 OC_{13}, 4, 1, 0; 1996 SO_5, 3, 1, 0; 1998 SR_{51}, 4, 1, 0; 1998 TM_1, 10, 3, 3501; 1999 AF_4, 3, 1, 0; 1999 RB_{30}, 8, 2, 4; 1999 TJ_{12}, 19, 4, 13; 1999 TZ_{226}, 3, 1, 0; 1999 TS_{312}, 3, 1, 0; 1999 UK_{12}, 3, 1, 0; 1999 VD_{116}, 8, 2, 9; 2000 AK_{42}, 11, 2, 4165; 2000 QB_{56}, 3, 1, 0; 2000 RZ_{12}, 3, 1, 0; 2000 SH_5, 7, 2, 5; 2000 SJ_9, 12, 2, 4; 2000 SW_{26}, 8, 2, 4; 2000 SV_{43}, 16, 4, 12; 2000 SX_{131}, 4, 1, 0; 2000 SV_{180}, 3, 1, 0; 2000 SN_{214}, 8, 2, 4; 2000 SH_{233}, 7, 2, 5; 2000 SP_{242}, 12, 3, 14; 2000 ST_{336}, 11, 3, 13; 2000 SF_{369}, 8, 2, 6; 2000 TA_{45}, 12, 3, 14; 2000 UN_{15}, 7, 2, 5; 2000 UF_{44}, 4, 1, 0; 2000 VE_3, 3, 1, 0; 2000 XO_8, 12, 3, 9; 2000 XZ_{10}, 3, 1, 0; 2000 YQ_{16}, 9, 2, 1788; 2000 YG_{29}, 3, 1, 0; 2001 OB_{74}, 4, 1, 0; 2001 PS_4, 16, 4, 12; 2001 QM_{71}, 4, 1, 0; 2001 QU_{151}, 13, 4, 13; 2001 QK_{187}, 4, 1, 0; 2001 QM_{208}, 4, 1, 0; 2001 QC_{237}, 6, 2, 4; 2001 RW_{119}, 6, 2, 4; 2001 SE_{73}, 3, 1, 0; 2001 SG_{132}, 3, 1, 0; 2001 SK_{168}, 7, 2, 4; 2001 SN_{210}, 4, 1, 0; 2001 SV_{229}, 12,

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(466217), 9, 3, 10; (466257), 7, 2, 4; (466264), 7, 2, 4; (466285), 8, 2, 5; (466312), 7, 2, 4; (466319), 4, 1, 0; (466375), 3, 1, 0; (466426), 8, 2, 12; (466471), 3, 1, 0; (466479), 4, 1, 0; (466577), 4, 1, 0; (466705), 3, 1, 0; (466860), 4, 1, 0; (466902), 4, 1, 0; (466908), 3, 1, 0; (467044), 4, 1, 0; (467265), 7, 2, 9; (467315), 8, 2, 4; (467329), 8, 2, 4; (467334), 3, 1, 0; (467355), 12, 3, 13; (467375), 4, 1, 0; (467377), 4, 1, 0; (467390), 3, 1, 0; (467430), 6, 2, 10; (467468), 4, 1, 0; (467490), 8, 2, 3; (467500), 7, 2, 4; (467520), 3, 1, 0; (467538), 2, 1, 0; (467636), 7, 2, 7; (467671), 4, 1, 0; (467749), 8, 2, 5; (467771), 2, 1, 0; (467778), 8, 2, 4; (467784), 8, 2, 4; (467796), 4, 1, 0; (467824), 7, 2, 4; (467825), 8, 2, 10; (467826), 3, 1, 0; (467831), 3, 1, 0; (467853), 1, 1, 0; (467995), 6, 2, 4; (468007), 4, 1, 0; (468021), 3, 1, 0; (468090), 4, 1, 0; (468094), 4, 1, 0; (468103), 2, 1, 0; (468114), 4, 1, 0; (468189), 6, 2, 4; (468214), 3, 1, 0; (468338), 3, 1, 0; (468374), 8, 2, 3; (468474), 12, 3, 7; (468476), 2, 1, 0; (468483), 8, 2, 4; (468485), 4, 1, 0; (468504), 3, 1, 0; (468509), 8, 2, 2; (468542), 12, 3, 9; (468548), 11, 3, 9; (468549), 14, 3, 10; (468558), 3, 1, 0; (468640), 8, 2, 10; (468643), 8, 2, 4; (468695), 3, 1, 0; (468801), 4, 1, 0; (468847), 6, 2, 4; (468876), 4, 1, 0; (468888), 9, 3, 9; (468908), 4, 1, 0; (468968), 4, 1, 0; (468998), 4, 1, 0; (469099), 3, 1, 0; (469123), 3, 1, 0; (469124), 7, 2, 5; (469125), 3, 1, 0; (469134), 4, 1, 0; (469144), 10, 2, 11; (469145), 11, 3, 9; (469150), 7, 2, 4; (469167), 4, 1, 0; (469205), 2, 1, 0; (469246), 8, 2, 4; (469251), 2, 1, 0; (469347), 4, 1, 0; (469433), 7, 2, 8; (470035), 7, 2, 4; (470066), 6, 2, 4; (470270), 3, 1, 0; (470363), 6, 2, 10; (470434), 12, 3, 10; (470622), 4, 1, 0; (470658), 11, 3, 10; (471081), 4, 1, 0; (471231), 4, 1, 0; (471257), 4, 1, 0; (471281), 11, 3, 13; (471676), 4, 1, 0; (471961), 8, 2, 8; (471990), 8, 2, 13; (472033), 4, 1, 0; (472130), 10, 3, 9; (472301), 6, 2, 10; (472332), 4, 1, 0;

(472354), 4, 1, 0; (472482), 3, 1, 0; (472574), 4, 1, 0; (472575), 2, 1, 0; (472627), 4, 1, 0; (472765), 3, 1, 0; (473139), 4, 1, 0; (473785), 10, 3, 10; (474030), 3, 1, 0; (474031), 4, 1, 0; (474033), 10, 3, 9; (474035), 8, 2, 13; (474039), 4, 1, 0; (474056), 4, 1, 0; (474560), 4, 1, 0; (479256), 3, 1, 0; (483747), 8, 2, 7; (488504), 6, 2, 12; (488528), 4, 1, 0; (488534), 2, 1, 0; (488550), 10, 2, 2; (488586), 4, 1, 0; (488620), 3, 1, 0; (488666), 4, 1, 0; (488675), 3, 1, 0; (488727), 8, 2, 4; (488734), 4, 1, 0; (488782), 3, 1, 0; (489117), 7, 2, 5; (489234), 4, 1, 0; (489244), 3, 1, 0; (489259), 4, 1, 0; (489265), 3, 1, 0; (489267), 2, 1, 0; (489286), 1, 1, 0; (489323), 3, 1, 0; (489328), 7, 2, 6; (489369), 4, 1, 0; (489547), 4, 1, 0; (489597), 4, 1, 0; (489715), 4, 1, 0; (489751), 7, 2, 4; (489757), 4, 1, 0; (490088), 6, 2, 6; (490209), 3, 1, 0; (490323), 4, 1, 0; (490355), 3, 1, 0; (490625), 3, 1, 0; (490715), 8, 2, 12; (490725), 7, 2, 12; (490831), 4, 1, 0; (491025), 7, 2, 4; (491628), 8, 2, 4; (491633), 8, 2, 4; (491668), 4, 1, 0; (492220), 7, 2, 4; (493468), 4, 1, 0; (494218), 3, 1, 0; (494693), 8, 2, 11; (494695), 4, 1, 0; (494794), 4, 1, 0; (494884), 8, 2, 12; (495182), 8, 2, 9; (495511), 6, 2, 3; (495600), 8, 2, 10; (495753), 6, 2, 3; (495838), 7, 2, 5; (495848), 3, 1, 0; (495851), 6, 2, 10; (495856), 12, 3, 11; (495878), 1, 1, 0; (495951), 8, 2, 3; (495955), 6, 2, 473; (495997), 4, 1, 0; (496015), 7, 2, 5; (496018), 11, 3, 12; (496027), 4, 1, 0; (496081), 8, 2, 8; (496135), 8, 2, 4; (496164), 7, 2, 4; (496192), 4, 1, 0; (496197), 4, 1, 0; (496216), 1, 1, 0; (496226), 4, 1, 0; (496247), 3, 1, 0; (496269), 4, 1, 0; (496308), 3, 1, 0; (496342), 3, 1, 0; (496356), 2, 1, 0; (496398), 4, 1, 0; (496411), 3, 1, 0; (496436), 4, 1, 0; (496451), 11, 3, 40; (496471), 2, 1, 0; (496479), 3, 1, 0; (496481), 8, 3, 22; (496482), 7, 2, 12; (496492), 3, 1, 0; (496498), 1, 1, 0; (496502), 8, 2, 508; (496520), 8, 2, 6; (496525), 4, 1, 0; (496562), 4, 1, 0; (496565), 4, 1, 0; (496566), 23, 6, 2216; (496567), 4, 1, 0; (496570), 7, 2, 7; (496574), 4, 1, 0; (496580), 4, 1, 0; (496581), 6, 2, 1788; (496587), 3, 1, 0; (496595), 3, 1, 0; (496605), 3, 1, 0; (496644), 28, 7, 3573; (496655), 8, 2, 3224; (496661), 7, 2, 10; (496669), 4, 1, 0; (496714), 6, 2, 10; (496750), 2, 1, 0; (496783), 4, 1, 0; (496791), 3, 1, 0; (496792), 2, 1, 0; (496793), 2, 1, 0; (496799), 4, 1, 0; (496801), 3, 1, 0; (496808), 16, 4, 2242; (496814), 4, 1, 0; *[193677, 29798, 37∗, 1999/09/05–2017/10/01]*

705 Apache Point

G. A. Esquerdo, Planetary Science Institute, 1700 E. Ft. Lowell suite 106, Tucson, AZ 85719, U.S.A. [esquerdo@psi.edu] (3)

K. Sárneczky, P.O. Box 406, H-6701 Szeged, Hungary [sky@titan.physx.u-szeged.hu] (7)

K. Nault, Adler Planetarium, 1300 S. Lake Shore Dr., Chicago, IL 60605, U.S.A. [knault@adlerplanetarium.org] (11)

{11} 2004 BY_{163}, 3, 1, 0; 2013 YG_{20}, 3, 1, 0; 2015 BE_{520}, 3, 1, 0; 2016 EF_{206}, 3, 1, 0; 2016 TV_{10}, 3, 1, 0; 2017 HM_1, 2, 1, 0; *[17, 6, 0∗, 2016/05/02–2017/05/12]*

{3} 2005 YC_{147}, 3, 1, 0; *[3, 1, 0∗, 2004/10/04]*

{7} 2017 OH_{19}, 3, 1, 0; *[3, 1, 0∗, 2005/09/12]*

711 McDonald Observatory

J. G. Ries, McDonald Observatory, University of Texas, Austin, TX 78712, U.S.A. [moon@astro.as.utexas.edu]

2.1-m reflector + CCD + focal reducer

USNO-B1.0

2001 UQ_{163}, 3, 1, 0; 2017 QM_{16}, 3, 1, 0; 2017 QU_{33}, 3, 1, 0; 2017 RU_1, 5, 2, 1; 2017 RV_1, 3, 1, 0; 2017 RX_1, 1, 1, 0; 2017 RB_2, 6, 2, 1; 2017 RD_2, 3, 1, 0; 2017 RH_2, 3, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RV_{17}, 4, 1, 0; (124699), 3, 1, 0; (142911), 3, 1, 0; (219574), 3, 1, 0; *[46, 14, 0∗, 2017/09/13–2017/09/15]*

718 Tooele

P. Wiggins, University of Utah Hansen Planetarium, 15 South State Street, Salt Lake City, UT 84111-1590, U.S.A. [4099wiggins@gmail.com]

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

UCAC-2

2017 OL_1, 10, 1, 0; 2017 OH_7, 5, 1, 0; 2017 OK_7, 10, 1, 0; 2017 RL, 5, 1, 0; (3122), 55, 12, 26; *[85, 5, 0∗, 2017/07/22–2017/09/27]*

719 Etscorn Observatory

W. Ryan, MRO Program Office, New Mexico Tech, Socorro, NM 87801, U.S.A. [bryan@mailaps.org]

Observers H. Hensley, L. Fossel, J. Dong, R. Yang, C. Ge, M. Holloway, N. Gandhi, T. Higgs, E. Esquivel, A. Eftime, J. Lee, I. Singh, A. Al-Kibbi, M. Gardner, L. Phillips, W. Cowen-Breen, D. Joo, E. Leydon, E. He, A. Hong, I. Lau, J. Chew, R. Zhang, J. Thio, C. Chandrashekar, E. Navarro, G. Pradeep, D. Cordova, A. Lessing, A. Yu, H. Burch, P. Espinosa, N. West, À. López, K. Hou, L. Kanehara

Measurers H. Hensley, L. Fossel, J. Dong, R. Yang, C. Ge, M. Holloway, N. Gandhi, T. Higgs, E. Esquivel, A. Eftime, J. Lee, I. Singh, A. Al-Kibbi, M. Gardner, L. Phillips, A. W. Rengstorf, W. Cowen-Breen, D. Joo, E. Leydon, E. He, A. Hong, I. Lau, J. Chew, R. Zhang, J. Thio, C. Chandrashekar, E. Navarro, G. Pradeep, D. Cordova, A. Lessing, A. Yu, H. Burch, P. Espinosa, N. West, À. López, K. Hou, L. Kanehara

0.36-m $f/11$ reflector + CCD

NOMAD, UCAC-3

(1980), 16, 7, 20; (6063), 14, 7, 21; (20460), 14, 7, 17; (138846), 12, 7, 22; (142561), 16, 8, 21; (190166), 13, 7, 21; *[85, 6, 0∗, 2017/06/22–2017/07/20]*

734 Farpoint Observatory

G. Hug, RTE 1 Box 35c, Eskridge, KS 66423, U.S.A. [fast@nekaal.org]

Observer G. Hug

Measurers G. Hug, D. Tibbets, D. Cromer

0.69-m reflector + CCD

UCAC-4

1998 SZ_{27}, 4, 1, 0; 2010 OO_{127}, 2, 1, 0; 2016 TE_{93}, 3, 1, 0; 2017 MU_7, 3, 1, 0; 2017 MT_8, 3, 1, 0; 2017 NM, 5, 2, 2; 2017 NK_6, 6, 2, 1; 2017 NL_6, 3, 1, 0; 2017 NM_6, 4, 1, 0; 2017 NO_6, 2, 1, 0; 2017 NS_6, 3, 1, 0; 2017 NU_6, 2, 1, 0; 2017 NX_6 ∗, 7, 2, 2; 2017 OA, 3, 1, 0; 2017 OJ_1, 5, 1, 0; 2017 OK_1, 3, 1, 0; 2017 OL_1, 5, 1, 0; 2017 OM_1, 5, 1, 0; 2017 ON_1, 4, 1, 0; 2017 OO_1, 3, 1, 0; 2017 OT_{19}, 2, 1, 0; 2017 OD_{20}, 3, 1, 0; 2017 OP_{67}, 2, 1, 0; 2017 OT_{67}, 2, 1, 0; 2017 OY_{68}, 3, 1, 0; 2017 PF, 3, 1, 0; 2017 PG, 4, 1, 0; 2017 PA_{25}, 3, 1, 0; 2017 PB_{25}, 3, 1, 0; 2017 PC_{25}, 3, 1, 0; 2017 PV_{25}, 4, 1, 0; 2017 QB, 4, 1, 0; 2017 QG, 3, 1, 0; 2017 QM_1, 3, 1, 0; 2017 QR_1, 3, 1, 0; 2017 QC_2, 3, 1, 0; 2017 QB_{18}, 3, 1, 0; 2017 QE_{18}, 3, 1, 0; 2017 QJ_{18}, 3, 1, 0; 2017 QN_{18}, 3, 1, 0; 2017 QL_{32}, 5, 1, 0; 2017 QP_{32}, 3, 1, 0; 2017 QY_{32}, 3, 1, 0; 2017 QA_{33}, 3, 1, 0; 2017 QM_{33}, 5, 2, 1; 2017 QO_{33}, 6, 2, 2; 2017 QP_{33}, 6, 2, 1; 2017 QM_{34} ∗, 8, 2, 1; 2017 QU_{34}, 3, 1, 0; 2017 QA_{35}, 3, 1, 0; 2017 RO_2, 3, 1, 0; 2017 RC_{15}, 3, 1, 0; *[186, 52, 2∗, 2017/07/15–2017/09/14]*

735 George Observatory, Needville

W. G. Dillon, 4703 Birkenhead Circle, Missouri City, TX 77459, U.S.A. [bdillon@houston.geoquest.slb.com]

Observers J. Dellinger, P. Garossino, D. Wells, W. G. Dillon

0.46-m $f/4.5$ Newtonian + CCD, 0.91-m $f/7.6$ Ritchey-Chrétien Cassegrain + CCD

USNO-A2.0, GSC-ACT

2009 DR_{142}, 2, 1, 0; *[2, 1, 0∗, 2004/12/14]*

750 Hobbs Observatory, Fall Creek

R. Elliott, S475 County Road K, Fall Creek, WI 54742, U.S.A. [elliottb@uwec.edu]

Observer N. Moritz

Measurer W. Childs

0.6-m $f/5$ Newtonian reflector + CCD

PPMXL

(3122), 2, 1, 0; *[2, 1, 0∗, 2017/09/01]*

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)
S. S. Sheppard, Carnegie Institute of Washington, Dept. of Terrestrial Magnetism, 5241 Broad Branch Road NW, Washington, DC 20015, U.S.A. [sheppard@dtm.ciw.edu] (23)
R. Holmes, 7168 NCR 2750E, Ashmore, IL 61912, U.S.A. [ari@astro-research.org] (32)
M. Holman, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138, U.S.A. [mholman@cfa.harvard.edu] (43)
Observers T. Linder, R. Holmes
Measurers T. Linder, R. Holmes, B. Shappee, M. T. Bannister, W. C. Fraser, P. Lacerda
0.61-m $f/6.5$ astrograph + CCD, 4.0-m CTIO reflector
UCAC-3, USNO-B1.0, 2MASS

{15} 2010 UG_{77}, 2, 1, 0; 2012 UX_{89}, 2, 1, 0; 2014 BK_{43}, 2, 1, 0; 2014 QQ_{91}, 3, 2, 1; 2014 WH_{491}, 2, 1, 0; 2014 WY_{510}, 2, 1, 0; 2014 YN_{51}, 2, 1, 0; 2015 AO_{281}, 2, 1, 0; 2015 BW_{264}, 3, 2, 1; 2015 GE_{21}, 3, 1, 0; 2015 OE_{80}, 2, 1, 0; 2015 UG_{85}, 3, 1, 0; *[28, 12, 0∗, 2005/08/08–2011/08/21]*

{21} 2014 UL_{159}, 3, 1, 0; *[3, 1, 0∗, 1998/03/23]*

{23} 2002 GS_{32}, 3, 1, 0; 2005 EF_{304}, 3, 1, 0; *[6, 2, 0∗, 2013/03/16–2013/05/08]*

{1} 2003 BO_{92}, 2, 1, 0; 2003 QJ_{120} ∗, 2, 1, 0; 2004 RQ_{251}, 2, 1, 0; 2004 TP_{314}, 2, 1, 0; 2005 XP_{119}, 2, 1, 0; 2006 FW_{55}, 2, 1, 0; 2007 ES_{225}, 4, 2, 295; 2007 RG_{257}, 2, 1, 0; 2007 SF_9, 2, 1, 0; 2007 TA_{382}, 2, 1, 0; 2008 GU_{73}, 2, 1, 0; 2009 BD_{140}, 2, 1, 0; 2009 DT_{132}, 2, 1, 0; 2009 SA_{370}, 2, 1, 0; 2009 US_{11}, 2, 1, 0; 2009 WR_{12}, 2, 1, 0; 2009 WA_{161}, 2, 1, 0; 2010 CX_{109}, 2, 1, 0; 2010 LD_{136}, 2, 1, 0; 2010 RR_{125}, 2, 1, 0; 2010 VQ_{24}, 3, 1, 0; 2011 AW_{51}, 2, 1, 0; 2011 FB_{14}, 2, 1, 0; 2011 FW_{88}, 2, 1, 0; 2011 OH_{34}, 2, 1, 0; 2011 US_{413}, 2, 1, 0; 2012 TC_{254}, 2, 1, 0; 2012 XP_{69}, 2, 1, 0; 2012 XZ_{77}, 2, 1, 0; 2013 CF_{89}, 2, 1, 0; 2013 CT_{107}, 2, 1, 0; 2013 LF_{30}, 2, 1, 0; 2013 RZ_{98}, 2, 1, 0; 2013 TW_{16}, 2, 1, 0; 2013 TP_{82}, 2, 1, 0; 2013 UA_1, 4, 2, 1; 2013 UX_{15}, 2, 1, 0; 2014 BW_{34}, 2, 1, 0; 2014 BG_{59}, 2, 1, 0; 2014 DC_{144}, 2, 1, 0; 2014 NQ_{36}, 2, 1, 0; 2014 SE_{305}, 2, 1, 0; 2014 SM_{351}, 2, 1, 0; 2014 TG_4, 2, 1, 0; 2014 TR_{46}, 2, 1, 0; 2014 TM_{60}, 2, 1, 0; 2014 UJ_{45}, 2, 1, 0; 2014 UH_{54}, 2, 1, 0; 2014 UE_{135}, 2, 1, 0; 2014 UL_{150}, 2, 1, 0; 2014 UP_{200}, 2, 1, 0; 2014 WB_{25}, 2, 1, 0; 2014 WN_{46}, 2, 1, 0; 2014 WT_{125}, 2, 1, 0; 2014 WC_{506}, 2, 1, 0; 2014 YY_{10}, 2, 1, 0; 2015 AM_{193}, 2, 1, 0; 2015 AJ_{277}, 2, 1, 0; 2015 BG_6, 2, 1, 0; 2015 BF_{13}, 2, 1, 0; 2015 BC_{18}, 2, 1, 0; 2015 BO_{19}, 2, 1, 0; 2015 BK_{66}, 2, 1, 0; 2015 BV_{71}, 2, 1, 0; 2015 BY_{74}, 2, 1, 0; 2015 BN_{77}, 2, 1, 0; 2015 BS_{102}, 2, 1, 0; 2015 BG_{151}, 2, 1, 0; 2015 BO_{173}, 2, 1, 0; 2015 BU_{202}, 2, 1, 0; 2015 BT_{205}, 2, 1, 0; 2015 BZ_{211}, 2, 1, 0; 2015 BU_{213}, 2, 1, 0; 2015 BA_{245}, 2, 1, 0; 2015 BN_{253}, 2, 1, 0; 2015 BF_{256}, 2, 1, 0; 2015 BG_{311}, 2, 1, 0; 2015 BB_{315}, 2, 1, 0; 2015 BB_{323}, 2, 1, 0; 2015 BO_{328}, 2, 1, 0; 2015 BY_{346}, 2, 1, 0; 2015 BO_{353}, 2, 1, 0; 2015 BN_{355}, 2, 1, 0; 2015 BD_{401}, 2, 1, 0; 2015 BS_{405}, 2, 1, 0; 2015 BY_{433}, 2, 1, 0; 2015 BA_{451}, 2, 1, 0; 2015 BP_{457}, 2, 1, 0; 2015 BV_{462}, 2, 1, 0; 2015 BM_{467}, 2, 1, 0; 2015 BS_{498}, 2, 1, 0; 2015 BL_{513}, 2, 1, 0; 2015 CZ_{54}, 2, 1, 0; 2015 CS_{62}, 2, 1, 0; 2015 DN_9, 2, 1, 0; 2015 DT_{30}, 2, 1, 0; 2015 DD_{98}, 2, 1, 0; 2015 DP_{111}, 2, 1, 0; 2015 DA_{145}, 2, 1, 0; 2015 DD_{168}, 2, 1, 0; 2015 DY_{217}, 2, 1, 0; 2015 ET_2, 2, 1, 0; 2015 FR_{178}, 2, 1, 0; 2015 FD_{208}, 2, 1, 0; 2015 FQ_{322}, 2, 1, 0; 2015 HL_{137}, 2, 1, 0; 2015 HJ_{159}, 2, 1, 0; 2015 PS_{45}, 2, 1, 0; 2015 VZ_{41}, 2, 1, 0; 2016 AB_{99}, 2, 1, 0; 2016 AM_{194}, 2, 1, 0; 2016 AV_{198}, 2, 1, 0; 2016 CQ_{70}, 2, 1, 0; 2016 FF_{29}, 2, 1, 0; 2016 GL_{24}, 2, 1, 0; 2016 GO_{73}, 2, 1, 0; 2016 GZ_{165}, 2, 1, 0; 2016 GH_{213}, 2, 1, 0; 2016 HO_5, 2, 1, 0; 2016 JN_{33}, 2, 1, 0; 2016 LT_{20}, 2, 1, 0; 2016 QS_{85}, 2, 1, 0; 2016 SF_{31}, 2, 1, 0; 2016 TX_{34}, 2, 1, 0; 2016 UZ_{147}, 2, 1, 0; 2017 KG_{36}, 2, 1, 0; 2017 NQ_3, 2, 1, 0; 2017 OT_1, 2, 1, 0; 2017 OL_{11}, 2, 1, 0; 2017 OU_{36}, 2, 1, 0; 2017 OW_{53}, 2, 1, 0; 2017 OA_{58}, 2, 1, 0; 2017 OZ_{60}, 2, 1, 0; 2017 OG_{63}, 2, 1, 0; 2017 PF_{15}, 2, 1, 0; 2017 QT_7, 2, 1, 0; 2017 QY_7, 2, 1, 0; 2017 SS_7, 2, 1, 0; (496409), 1, 1, 0; (496441), 2, 1, 0; (496490), 2, 1, 0; (496567), 2, 1, 0; *[288, 142, 1∗, 2000/07/29–2006/04/28]*

{3} 2002 RZ_{295}, 5, 1, 0; 2013 TN_{138}, 3, 1, 0; 2013 VF_4, 4, 1, 0; 2014 UK_{13}, 3, 1, 0; 2015 FW_{45}, 4, 1, 0; 2017 RV_9, 4, 1, 0; *[23, 6, 0∗, 2001/01/24–2003/04/01]*

{43} 2010 JO_{179}, 12, 3, 2; *[12, 1, 0∗, 2014/08/16–2014/08/18]*

{32} 2001 UQ_{163}, 3, 1, 0; 2007 TX_{14}, 3, 1, 0; 2008 SP_7, 6, 2, 3; 2012 TC_4, 3, 1, 0; 2013 PM_{30}, 3, 1, 0; 2013 RM_9, 3, 1, 0; 2014 EY_{48}, 3, 1, 0; 2014 WK_{202}, 3, 1, 0; 2015 SJ_{22}, 3, 1, 0; 2016 AU_{130}, 3, 1, 0; 2016 LM_{11}, 6, 2, 1; 2017 AN_{19}, 6, 2, 1; 2017 BS_6, 6, 1, 0; 2017 BM_{31}, 3, 1, 0; 2017 CH_1, 3, 1, 0; 2017 FX_{64}, 3, 1, 0; 2017 GU_6, 6, 2, 33; 2017 GM_7, 6, 2, 13; 2017 GO_7, 6, 2, 16; 2017 HW_1, 9, 3, 35; 2017 HW_{48}, 9, 3, 24; 2017 HR_{49}, 3, 1, 0; 2017 JU_2, 6, 2, 23; 2017 KE_3, 6, 2, 33; 2017 KN_4, 7, 2, 38; 2017 KO_4, 12, 4, 48; 2017 KV_4, 3, 1, 0; 2017 KE_5, 12, 3, 59; 2017 KO_{31}, 3, 1, 0; 2017 KS_{31}, 3, 1, 0; 2017 KR_{34}, 3, 1, 0; 2017 LG_1, 3, 1, 0; 2017 MB, 3, 1, 0; 2017 ME, 12, 4, 34; 2017 MM, 3, 1, 0; 2017 MV_2, 6, 1, 0; 2017 MW_2, 6, 2, 33; 2017 MY_2, 3, 1, 0; 2017 MZ_3, 3, 1, 0; 2017 MA_4, 9, 3, 35; 2017 MF_4, 6, 2, 35; 2017 MV_4, 3, 1, 0; 2017 ME_7, 3, 1, 0; 2017 MJ_7, 3, 1, 0; 2017 ML_7, 3, 1, 0; 2017 MU_7, 3, 1, 0; 2017 MW_7, 3, 1, 0; 2017 MJ_8, 3, 1, 0; 2017 MN_8, 3, 1, 0; 2017 MT_8, 3, 1, 0; 2017 MY_8, 6, 2, 30; 2017 NB_2, 3, 1, 0; 2017 NN_6, 8, 2, 32; 2017 NP_6, 7, 2, 1; 2017 NQ_6, 18, 6, 56; 2017 NR_6, 6, 2, 1; 2017 NS_6, 6, 2, 1; 2017 NT_6, 2, 1, 0; 2017 NU_6, 5, 2, 1; 2017 OA, 9, 3, 2; 2017 OC, 3, 1, 0; 2017 OD, 8, 1, 0; 2017 OG_7, 3, 1, 0; 2017 OS_{18}, 3, 1, 0; 2017 OV_{18}, 3, 1, 0; 2017 OX_{18}, 4, 1, 0; 2017 OY_{18}, 3, 1, 0; 2017 OZ_{18}, 6, 2, 3; 2017 OA_{19}, 3, 1, 0; 2017 OG_{19}, 3, 1, 0; 2017 OJ_{19}, 6, 2, 21; 2017 OM_{19}, 5, 2, 3; 2017 OQ_{19}, 9, 3, 35; 2017 OD_{20}, 3, 1, 0; 2017 OE_{20}, 3, 1, 0; 2017 OM_{67}, 3, 1, 0; 2017 OO_{67}, 9, 3, 5; 2017 OR_{67}, 6, 2, 2; 2017 OS_{67}, 6, 2, 2; 2017 OT_{67}, 6, 2, 2; 2017 OU_{67}, 6, 2, 51; 2017 OY_{67}, 8, 3, 4; 2017 OA_{68}, 3, 1, 0; 2017 OB_{68}, 3, 1, 0; 2017 OL_{68}, 3, 1, 0; 2017 OP_{68}, 3, 1, 0; 2017 OS_{68}, 3, 1, 0; 2017 OV_{68}, 3, 1, 0; 2017 OC_{69}, 3, 1, 0; 2017 PA, 9, 3, 2; 2017 PB, 9, 3, 2; 2017 PC, 6, 2, 1; 2017 PD, 3, 1, 0; 2017 PE, 3, 1, 0; 2017 PF, 8, 3, 19; 2017 PG, 3, 1, 0; 2017 PM_{25}, 3, 1, 0; 2017 PN_{25}, 2, 1, 0; 2017 PP_{25}, 3, 1, 0; 2017 PS_{25}, 4, 1, 0; 2017 PU_{25}, 3, 1, 0; 2017 PY_{25}, 3, 1, 0; 2017 PZ_{25}, 6, 2, 1; 2017 PA_{26}, 6, 2, 1; 2017 PB_{26}, 3, 1, 0; 2017 PC_{26}, 3, 1, 0; 2017 PD_{26}, 6, 2, 1; 2017 PE_{26}, 3, 1, 0; 2017 PF_{26}, 3, 1, 0; 2017 PJ_{26}, 6, 2, 3; 2017 PK_{26}, 20, 7, 39; 2017 PM_{26}, 9, 3, 4; 2017 PN_{26}, 3, 1, 0; 2017 PO_{26}, 6, 2, 3; 2017 PP_{26}, 3, 1, 0; 2017 PR_{26}, 6, 2, 2; 2017 PS_{26}, 6, 2, 2; 2017 PT_{26}, 3, 1, 0; 2017 PU_{26}, 3, 1, 0; 2017 PV_{26}, 3, 1, 0; 2017 PW_{26}, 3, 1, 0; 2017 PX_{26}, 6, 2, 33; 2017 PR_{30}, 3, 1, 0; 2017 PS_{30}, 3, 1, 0; 2017 PT_{30}, 3, 1, 0; 2017 PU_{30}, 3, 1, 0; 2017 PZ_{30}, 6, 2, 6; 2017 QA, 3, 1, 0; 2017 QJ, 3, 1, 0; 2017 QK, 9, 3, 4; 2017 QL, 6, 2, 1; 2017 QN, 5, 2, 1; 2017 QP, 3, 1, 0; 2017 QS, 9, 3, 13; 2017 QK_1, 3, 1, 0; 2017 QL_1, 2, 1, 0; 2017 QN_1, 6, 2, 1; 2017 QO_1, 8, 2, 1; 2017 QQ_1, 3, 1, 0; 2017 QU_1, 3, 1, 0; 2017 QW_1, 3, 1, 0; 2017 QD_2, 3, 1, 0; 2017 QE_2, 3, 1, 0; 2017 QK_2, 3, 1, 0; 2017 QO_2, 3, 1, 0; 2017 QS_2, 3, 1, 0; 2017 QT_2, 3, 1, 0; 2017 QU_2, 3, 1, 0; 2017 QV_2, 3, 1, 0; 2017 QW_2, 3, 1, 0; 2017 QX_2, 3, 1, 0; 2017 QZ_2, 4, 1, 0; 2017 QA_3, 3, 1, 0; 2017 QB_3, 3, 1, 0; 2017 QK_{16}, 3, 1, 0; 2017 QL_{16}, 5, 2, 2; 2017 QN_{16}, 6, 2, 9; 2017 QO_{16}, 3, 1, 0; 2017 QP_{16}, 3, 1, 0; 2017 QQ_{16}, 3, 1, 0; 2017 QC_{17}, 6, 2, 12; 2017 QD_{17}, 6, 2, 10; 2017 QN_{17}, 3, 1, 0; 2017 QO_{17}, 2, 1, 0; 2017 QR_{17}, 6, 2, 8; 2017 QH_{18}, 6, 2, 8; 2017 QN_{18}, 3, 1, 0; 2017 QO_{32}, 3, 1, 0; 2017 QU_{33}, 3, 1, 0; 2017 QM_{35}, 3, 1, 0; 2017 QN_{35}, 2, 1, 0; 2017 QO_{35}, 5, 2, 1; 2017 QQ_{35}, 6, 2, 23; 2017 QS_{35}, 3, 1, 0; 2017 QB_{36}, 6, 2, 2; 2017 RC, 3, 1, 0; 2017 RF, 3, 1, 0; 2017 RZ_1, 3, 1, 0; 2017 RA_2, 3, 1, 0; 2017 RL_2, 5, 2, 11; 2017 RO_2, 9, 3, 10; 2017 RP_2, 6, 2, 3; 2017 RS_2, 3, 1, 0; 2017 RA_{14}, 9, 3, 2; 2017 RB_{14}, 3, 1, 0; 2017 RC_{14}, 3, 1, 0; 2017 RD_{14}, 6, 2, 4; 2017 RE_{14}, 3, 1, 0; 2017 RF_{14}, 6, 2, 3; 2017 RG_{14}, 3, 1, 0; 2017 RH_{14}, 3, 1, 0; 2017 RJ_{14}, 3, 1, 0; 2017 RM_{14}, 5, 2, 1; 2017 RQ_{14}, 3, 1, 0; 2017 RS_{14}, 3, 1, 0; 2017 RT_{14}, 3, 1, 0; 2017 RU_{14}, 6, 2, 2; 2017 RV_{14}, 3, 1, 0; 2017 RW_{14}, 3, 1, 0; 2017 RA_{15}, 2, 1, 0; 2017 RC_{15}, 3, 1, 0; 2017 RD_{15}, 6, 2, 3; 2017 RF_{15}, 3, 1, 0; 2017 RG_{15}, 6, 2, 1; 2017 RH_{15}, 3, 1, 0; 2017 RT_{15}, 3, 1, 0; 2017 RU_{15}, 6, 2, 8; 2017 RV_{15}, 3, 1, 0; 2017 RY_{15}, 3, 1, 0; 2017 RZ_{15}, 3, 1, 0; 2017 RB_{16}, 3, 1, 0; 2017 RC_{16}, 3, 1, 0; 2017 RE_{16}, 3, 1, 0; 2017 RF_{16}, 6, 2, 3; 2017 RG_{16}, 3, 1, 0; 2017 RJ_{16}, 3, 1, 0; 2017 RP_{16}, 3, 1, 0; 2017 RS_{16}, 5, 2, 2; 2017 RT_{16}, 3, 1, 0; 2017 RV_{16}, 3, 1, 0; 2017 RM_{17}, 9, 3, 5; 2017 RR_{17}, 3, 1, 0; 2017 SO_1, 3, 1, 0; 2017 SW_1, 3, 1, 0; 2017 SX_1, 4, 1, 0; 2017 SY_1, 3, 1, 0; 2017 SE_2, 3, 1, 0; 2017 SH_2, 3, 1, 0; 2017 SJ_2, 6, 2, 6; 2017 SK_2, 3, 1, 0; 2017 SL_2, 6, 2, 6; 2017 SO_2, 3, 1, 0; 2017 SS_2, 3, 1, 0; 2017 SD_{10}, 6, 2, 1; 2017 SE_{10}, 6, 2, 1; 2017 SF_{10}, 6, 2, 1; 2017 SG_{10}, 3, 1, 0; 2017 SK_{10}, 6, 2, 6; 2017 SV_{10}, 9, 3, 4; 2017 SW_{10}, 6, 2, 2; 2017 SX_{10}, 6, 2, 2; 2017 SY_{10}, 6, 2, 2; 2017 SZ_{10}, 3, 1, 0; 2017 SK_{11}, 3, 1, 0; 2017 SS_{11}, 6, 2, 2; 2017 ST_{11}, 5, 2, 3; 2017 SE_{12}, 3, 1, 0; 2017 SP_{12}, 3, 1, 0; 2017 ST_{12}, 6, 2, 3; 2017 SV_{12}, 5, 2, 2; 2017 SW_{12}, 6, 2, 2; 2017 SX_{12}, 6, 2, 2; 2017 SB_{14}, 3, 1, 0; 2017 SD_{14}, 3, 1, 0; 2017 SF_{14}, 3, 1, 0; 2017 SZ_{16}, 3, 1, 0; 2017 SB_{17}, 3, 1, 0; 2017 SG_{17}, 3, 1, 0; 2017 SR_{17}, 3, 1, 0; 2017 SF_{19}, 6, 2, 2; 2017 SR_{19}, 3, 1, 0; 2017 SW_{20}, 3, 1, 0; (154541), 3, 1, 0; *[1175, 263, 0∗, 2015/12/09–2017/09/27]*

809 European Southern Observatory, La Silla

E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium [elst@atmos.oma.be] (4)
A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [boattini@ias.rm.cnr.it] (9)
R. Behrend, Geneva Observatory, CH-1290 Sauverny, Switzerland [raoul.behrend@obs.unige.ch] (20)
O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [ovidiuv@astroclubul.org] (32)

A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia [Adrian.Galád@fmph.uniba.sk] (35)
D. Rabinowitz, Center for Astronomy and Astrophysics, P.O. Box 208121, Yale University, New Haven, CT 06512, U.S.A. [david.rabinowitz@yale.edu] (37)
M. Holman, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138, U.S.A. [mholman@cfa.harvard.edu] (46)
Observers R. Kokotanekova, P. Lacerda
Measurers M. T. Bannister, W. C. Fraser, P. Lacerda
1.8-m Ritchey-Chrétien + CCD
2MASS

{20} 2015 CW_{39}, 5, 1, 0; *[5, 1, 0∗, 2010/05/26]*

{4} 2013 PK_{7}, 3, 1, 0; 2017 OK_{18}, 1, 1, 0; 2017 OQ_{60}, 1, 1, 0; *[5, 3, 0∗, 1993/07/24–1994/09/04]*

{9} 2012 WT_{3}, 3, 1, 0; 2014 VA_{38}, 3, 1, 0; 2015 AX_{249}, 3, 1, 0; 2015 CE_{15}, 3, 1, 0; 2015 CB_{40}, 3, 1, 0; 2015 DD_{120}, 3, 1, 0; 2015 FB_{178}, 3, 1, 0; 2016 LJ_{13}, 3, 1, 0; 2016 PB_{80}, 3, 1, 0; *[27, 9, 0∗, 2005/01/22–2005/02/16]*

{35} 2007 EN_{224}, 7, 1, 0; 2015 FC_{393}, 7, 1, 0; 2016 FL_{25}, 4, 1, 0; *[18, 3, 0∗, 2013/01/10–2016/04/01]*

{37} 2010 RJ_{83}, 2, 1, 0; *[2, 1, 0∗, 2010/10/14]*

{46} 2010 JO_{179}, 23, 2, 2; *[23, 1, 0∗, 2016/07/28–2016/07/30]*

{32} 2012 RX_{43}, 8, 1, 0; *[8, 1, 0∗, 2008/03/12]*

821 Córdoba-Bosque Alegre

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

2017 KC_{34}, 4, 1, 0; *[4, 1, 0∗, 2016/06/17]*

822 Córdoba

C. Colazo, Observatorio Bosque Alegre, 851 Laprida Street, Córdoba-Capital, Córdoba, Argentina [gatogristanti@gmail.com]
Observers E. Pulver, A. Taveira, M. Santucho, R. Artola
0.36-m Schmidt-Cassegrain + CCD
Gaia-DR1

2017 SB_{2}, 3, 1, 0; (3122), 3, 1, 0; *[6, 2, 0∗, 2017/08/31–2017/09/19]*

844 Los Molinos

G. Tancredi, Departamento Astronomia, Facultad Ciencias, Igua 4225, UY-11400 Montevideo, Uraguay [gonzalo@fisica.edu.uy]
Observer R. Salvo
0.35-m reflector + CCD
USNO-B1.0

2017 SD_{12}, 5, 1, 0; *[5, 1, 0∗, 2017/09/24]*

850 Cordell-Lorenz Observatory, Sewanee

D. T. Durig, SPO 1242, Sewanee, TN 37383, U.S.A. [ddurig@sewanee.edu]
Observers D. T. Durig, H. H. Rice, L. D. Parson, R. G. McCoy
Measurers D. T. Durig, H. H. Rice, L. D. Parson, R. G. McCoy, W. C. Grady, P. C. Parker, J. Y. Zhang
0.3-m Schmidt-Cassegrain + CCD
UCAC-3, UCAC-4

2014 CD_{13}, 8, 1, 0; 2017 RQ_{2}, 8, 2, 1; 2017 RS_{2}, 4, 1, 0; 2017 RV_{2}, 15, 2, 1; 2017 ST_{1}, 5, 1, 0; 2017 SM_{2}, 7, 1, 0; 2017 SN_{2}, 10, 1, 0; 2017 SD_{12}, 5, 1, 0; 2017 SS_{12}, 9, 1, 0; 2017 SR_{16}, 4, 1, 0; 2017 SP_{17}, 7, 1, 0; (3122), 10, 1, 0; *[92, 12, 0∗, 2017/09/09–2017/09/28]*

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

2008 UF_{314}, 4, 1, 0; 2017 OH_{7}, 2, 1, 0; 2017 PD_{25}, 3, 1, 0; 2017 PE_{25}, 2, 1, 0; 2017 PK_{25}, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 PL_{26}, 2, 1, 0; 2017 QB, 2, 1, 0; 2017 QX_{1}, 3, 1, 0; 2017 QY_{34}, 2, 1, 0; 2017 QJ_{35}, 3, 1, 0; 2017 QR_{35}, 3, 1, 0; 2017 RL, 2, 1, 0; (3895), 2, 1, 0; (5685), 21, 3, 3; (6654), 2, 1, 0; (21431), 2, 1, 0; (21838), 2, 1, 0; (32466), 2, 1, 0; (34421), 2, 1, 0; (44157), 2, 1, 0; (45146), 1, 1, 0; (46334), 2, 1, 0; (58175), 2, 1, 0; (101999), 2, 1, 0; (112744), 2, 1, 0; (119882), 2, 1, 0; (155564), 3, 1, 0; (162564), 2, 1, 0; (163662), 2, 1, 0; (175508), 2, 1, 0; (183355), 2, 1, 0; (200152), 3, 1, 0; (308631), 2, 1, 0; (338243), 2, 1, 0; (378257), 2, 1, 0; (428091), 2, 1, 0; *[102, 37, 0∗, 2017/07/26–2017/09/28]*

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

2014 WL_{480}, 3, 1, 0; 2014 YY_{10}, 3, 1, 0; 2015 BQ_{90}, 3, 1, 0; 2015 BP_{99}, 3, 1, 0; 2016 AH_{189}, 3, 1, 0; 2016 RN_{42}, 3, 1, 0; (496502), 3, 1, 0; *[21, 7, 0∗, 1997/09/07–1998/10/22]*

926 Tenagra II Observatory

M. Schwartz, Tenagra Observatories, HC 2 Box 292, Nogales, AZ 85621, U.S.A. [mbs@tenagraobservatories.com]
Observers M. Schwartz, P. R. Holvorcem
0.81-m $f/7$ Ritchey-Chrétien + CCD
USNO-B1.0

2002 SU, 3, 1, 0; 2004 TD_{10}, 3, 1, 0; 2006 PB_{26}, 3, 1, 0; 2006 SP_{81}, 3, 1, 0; 2006 SW_{334}, 3, 1, 0; 2006 UJ_{19}, 3, 1, 0; 2007 RB_{297}, 3, 1, 0; 2009 WC_{247}, 3, 1, 0; 2009 YM_{16}, 3, 1, 0; 2011 EA_{30}, 3, 1, 0; 2012 BW_{130}, 3, 1, 0; 2013 GU_{7}, 3, 1, 0; 2013 TF_{6}, 9, 2, 1; 2013 TL_{84}, 3, 1, 0; 2014 KX_{81}, 3, 1, 0; 2014 LR_{21}, 3, 1, 0; 2014 QV_{391}, 3, 1, 0; 2014 QH_{442}, 3, 1, 0; 2014 SV_{350}, 3, 1, 0; 2014 TW_{57}, 3, 1, 0; 2014 US_{92}, 3, 1, 0; 2014 UP_{192}, 3, 1, 0; 2014 VU_{1}, 2, 1, 0; 2014 WP_{202}, 8, 2, 1; 2014 WO_{389}, 3, 1, 0; 2014 WO_{467}, 6, 2, 16; 2014 YV_{44}, 3, 1, 0; 2015 BF_{4}, 9, 2, 1; 2015 BG_{78}, 3, 1, 0; 2015 BQ_{90}, 3, 1, 0; 2015 BW_{148}, 3, 1, 0; 2015 BD_{256}, 3, 1, 0; 2015 BC_{257}, 3, 1, 0; 2015 BE_{260}, 3, 1, 0; 2015 BX_{354}, 3, 1, 0; 2015 BG_{367}, 3, 1, 0; 2015 BQ_{430}, 3, 1, 0; 2015 DN_{92}, 3, 1, 0; 2015 DE_{98}, 3, 1, 0; 2015 DK_{175}, 3, 1, 0; 2015 DM_{207}, 3, 1, 0; 2015 FM_{21}, 3, 1, 0; 2015 FE_{96}, 3, 1, 0; 2015 FW_{150}, 3, 1, 0; 2015 JK_{11}, 3, 1, 0; 2015 XC_{387}, 3, 1, 0; 2016 CX_{265}, 3, 1, 0; 2016 DG_{31}, 3, 1, 0; 2016 ED_{131}, 3, 1, 0; 2016 FJ_{7}, 3, 1, 0; 2016 FX_{33}, 3, 1, 0; 2016 GR_{211}, 3, 1, 0; 2016 JB_{39}, 3, 1, 0; 2016 PE_{37}, 3, 1, 0; 2016 QB_{29}, 3, 1, 0; 2016 UC_{17}, 3, 1, 0; 2017 FJ_{90}, 3, 1, 0; 2017 FR_{90}, 5, 2, 1; 2017 GQ_{6}, 3, 1, 0; 2017 GS_{6}, 5, 2, 1; 2017 HJ_{1}, 7, 2, 1; 2017 KD_{5}, 3, 1, 0; 2017 KM_{32}, 3, 1, 0; 2017 MG_{5}, 3, 1, 0; 2017 MK_{8}, 3, 1, 0; 2017 NR_{2}, 3, 1, 0; 2017 NQ_{3}, 3, 1, 0; 2017 NU_{6}, 3, 1, 0; 2017 OP, 6, 2, 10; 2017 OO_{5}, 3, 1, 0; 2017 OD_{25}, 3, 1, 0; 2017 OW_{29}, 6, 2, 873; 2017 OP_{36}, 3, 1, 0; 2017 OK_{52}, 3, 1, 0; 2017 PB_{25}, 9, 2, 27; 2017 PR_{25}, 3, 1, 0; 2017 QY_{16}, 3, 1, 0; 2017 QD_{27}, 3, 1, 0; 2017 QF_{31}, 3, 1, 0; 2017 RU_{1}, 3, 1, 0; 2017 RW_{1}, 3, 1, 0; 2017 RX_{1}, 3, 1, 0; 2017 RG_{2}, 3, 1, 0; 2017 RK_{2}, 3, 1, 0; 2017 RU_{2}, 6, 2, 1; 2017 RW_{2}, 3, 1, 0; 2017 RX_{2}, 3, 1, 0; 2017 RQ_{15}, 8, 2, 2; 2017 RB_{16}, 3, 1, 0; 2017 RL_{16}, 3, 1, 0; 2017 RO_{16}, 9, 3, 5; 2017 RP_{16}, 3, 1, 0; 2017 SD_{2}, 3, 1, 0; 2017 SE_{2}, 3, 1, 0; 2017 SH_{2}, 3, 1, 0; 2017 SJ_{2}, 3, 1, 0; 2017 SL_{2}, 3, 1, 0; 2017 SM_{2}, 3, 1, 0; 2017 SN_{2}, 3, 1, 0; 2017 SP_{2}, 3, 1, 0; 2017 SQ_{2}, 3, 1, 0; 2017 ST_{2}, 3, 1, 0; 2017 SU_{2}, 3, 1, 0; 2017 SV_{2}, 6, 2, 1; 2017 SW_{2}, 3, 1, 0; 2017 SX_{2}, 3, 1, 0; 2017 SY_{2}, 5, 2, 1; 2017 SZ_{2}, 6, 2, 1; 2017 SA_{3}, 3, 1, 0; 2017 SG_{10}, 9, 3, 2; 2017 SH_{10}, 9, 3, 2; 2017 SJ_{10}, 9, 3, 2; 2017 SK_{10}, 9, 3, 2; 2017 SM_{10}, 9, 3, 2; 2017 SN_{10}, 6, 2, 1; 2017 SO_{10}, 10, 4, 9; 2017 SP_{10}, 3, 1, 0; 2017 SQ_{10}, 3, 1, 0; 2017 SS_{10}, 3, 1, 0; 2017 ST_{10}, 11, 2, 1; 2017 SA_{11}, 3, 1, 0; 2017 SB_{11}, 3, 1, 0; 2017 SC_{11}, 2, 1, 0; 2017 SE_{11}, 3, 1, 0; 2017 SF_{11}, 3, 1, 0; 2017 SH_{11}, 3, 1, 0; 2017 SQ_{11}, 6, 2, 4; 2017 SS_{11}, 3, 1, 0; 2017 ST_{11}, 3, 1, 0; 2017 SU_{11}, 9, 3, 8; 2017 SV_{11}, 6, 2, 1; 2017 SW_{11}, 3, 1, 0; 2017 SX_{11}, 9, 3, 2; 2017 SY_{11}, 5, 2, 2; 2017 SZ_{11}, 9, 3, 3; 2017 SA_{12}, 3, 1, 0; 2017 SB_{12}, 7, 3, 2; 2017 SC_{12}, 3, 1, 0; 2017 SE_{12}, 3, 1, 0; 2017 SF_{12}, 6, 2, 1; 2017 SG_{12}, 3, 1, 0; 2017 SH_{12}, 6, 2, 1; 2017 SJ_{12}, 3, 1, 0; 2017 SK_{12}, 3, 1, 0; 2017 SM_{12}, 3, 1, 0; 2017 SN_{12}, 3, 1, 0; 2017 SO_{12}, 3, 1, 0;

2017 SS_{12}, 3, 1, 0; 2017 SC_{13}, 3, 1, 0; 2017 SE_{13}, 3, 1, 0; 2017 SM_{13}, 3, 1, 0; 2017 SP_{13}, 5, 2, 1; 2017 SV_{13}, 9, 3, 2; 2017 SX_{13}, 3, 1, 0; 2017 SY_{13}, 3, 1, 0; 2017 SZ_{13}, 6, 2, 2; 2017 SD_{14}, 3, 1, 0; 2017 SG_{14}, 6, 2, 2; 2017 SH_{14}, 6, 2, 1; 2017 SK_{14}, 9, 2, 5; 2017 SN_{14}, 9, 3, 5; 2017 SQ_{14}, 3, 1, 0; 2017 SS_{14}, 3, 1, 0; 2017 ST_{14}, 9, 3, 6; 2017 SU_{14}, 3, 1, 0; 2017 SV_{14}, 3, 1, 0; 2017 SW_{14}, 3, 1, 0; 2017 SR_{15} *, 3, 1, 0; 2017 SG_{16}, 6, 2, 1; 2017 SH_{16}, 6, 2, 5; 2017 SJ_{16}, 3, 1, 0; 2017 SK_{16}, 3, 1, 0; 2017 SN_{16}, 3, 1, 0; 2017 SO_{16}, 2, 1, 0; 2017 SQ_{16}, 3, 1, 0; 2017 SR_{16}, 3, 1, 0; 2017 SS_{16}, 6, 2, 4; 2017 SV_{16}, 3, 1, 0; 2017 SB_{17}, 3, 1, 0; 2017 SF_{17}, 3, 1, 0; 2017 SK_{17}, 9, 3, 3; 2017 SL_{17}, 3, 1, 0; 2017 SM_{17}, 9, 3, 5; 2017 SN_{17}, 6, 2, 2; 2017 SP_{17}, 3, 1, 0; 2017 SQ_{17}, 6, 2, 2; 2017 SR_{17}, 6, 2, 4; 2017 SV_{17}, 6, 2, 1; 2017 SH_{18}, 6, 2, 1; 2017 SJ_{18}, 6, 2, 1; 2017 ST_{18}, 3, 1, 0; 2017 SA_{19}, 6, 2, 1; 2017 SJ_{19}, 6, 1, 0; 2017 SM_{19}, 3, 1, 0; 2017 SN_{19}, 3, 1, 0; 2017 SP_{19}, 2, 1, 0; 2017 SS_{19}, 12, 4, 3; 2017 SV_{19}, 3, 1, 0; 2017 SW_{19}, 9, 2, 2; 2017 SY_{19}, 6, 2, 1; 2017 SZ_{19}, 6, 2, 1; 2017 SA_{20}, 3, 1, 0; 2017 SB_{20}, 6, 2, 1; 2017 SC_{20}, 3, 1, 0; 2017 SD_{20}, 3, 1, 0; 2017 SE_{20}, 3, 1, 0; 2017 SG_{20}, 3, 1, 0; 2017 SH_{20}, 3, 1, 0; 2017 ST_{20}, 3, 1, 0; 2017 SW_{20}, 6, 2, 1; 2017 SX_{20}, 3, 1, 0; 2017 SY_{20}, 3, 1, 0; 2017 SZ_{20}, 3, 1, 0; 2017 SA_{21}, 9, 2, 1; 2017 SB_{21}, 9, 2, 1; (531), 3, 1, 0; (2167), 3, 1, 0; (3247), 3, 1, 0; (4577), 3, 1, 0; (5988), 3, 1, 0; (6030), 3, 1, 0; (7084), 3, 1, 0; (9623), 3, 1, 0; (15881), 3, 1, 0; (19917), 3, 1, 0; (20204), 3, 1, 0; (20717), 3, 1, 0; (21195), 3, 1, 0; (33509), 3, 1, 0; (35216), 3, 1, 0; (37536), 3, 1, 0; (40027), 3, 1, 0; (41209), 3, 1, 0; (50592), 3, 1, 0; (62924), 3, 1, 0; (63217), 3, 1, 0; (66280), 3, 1, 0; (76513), 3, 1, 0; (79496), 3, 1, 0; (80772), 3, 1, 0; (83541), 6, 1, 0; (87067), 3, 1, 0; (87381), 3, 1, 0; (104546), 3, 1, 0; (114889), 3, 1, 0; (127361), 3, 1, 0; (131118), 3, 1, 0; (134617), 3, 1, 0; (136062), 3, 1, 0; (137553), 3, 1, 0; (140607), 3, 1, 0; (142115), 3, 1, 0; (144672), 3, 1, 0; (151068), 3, 1, 0; (164242), 3, 1, 0; (167698), 3, 1, 0; (170826), 3, 1, 0; (173549), 3, 1, 0; (188034), 3, 1, 0; (190105), 3, 1, 0; (190390), 3, 1, 0; (190409), 3, 1, 0; (190429), 3, 1, 0; (195108), 3, 1, 0; (196868), 3, 1, 0; (208525), 3, 1, 0; (230925), 3, 1, 0; (233695), 3, 1, 0; (237389), 3, 1, 0; (240733), 3, 1, 0; (253619), 3, 1, 0; (270324), 3, 1, 0; (274983), 3, 1, 0; (278744), 3, 1, 0; (281061), 3, 1, 0; (283902), 3, 1, 0; (289874), 3, 1, 0; (294511), 3, 1, 0; (294658), 3, 1, 0; (298642), 3, 1, 0; (299318), 6, 2, 1; (300894), 3, 1, 0; (305627), 3, 1, 0; (307974), 3, 1, 0; (320382), 3, 1, 0; (330054), 3, 1, 0; (331788), 3, 1, 0; (333160), 6, 1, 0; (333685), 3, 1, 0; (370467), 3, 1, 0; (373130), 3, 1, 0; (376153), 3, 1, 0; (382301), 3, 1, 0; (385887), 3, 1, 0; (388810), 3, 1, 0; (416252), 3, 1, 0; (418958), 3, 1, 0; (431416), 3, 1, 0; (432168), 3, 1, 0; (433570), 3, 1, 0; (436907), 3, 1, 0; (437120), 3, 1, 0; (496644), 2, 1, 0; (496800), 3, 1, 0; (496813), 3, 1, 0; *[1184, 305, 1*, 2002/12/13–2017/10/01]*

941 Observatorio Pla D'Arguines

R. Ferrando, Guardia Civil N. 22, ESC-5 PTA.-34, E-46020 Valencia, Spain [rferrand@pladearguines.com]
Observers R. Ferrando, C. Segarra
0.30-m Schmidt-Cassegrain + CCD
UCAC-2

2016 BL_{44}, 7, 1, 0; *[7, 1, 0*, 2004/08/14]*

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 M. Hollands, O. Vaduvescu, V. Tudor, H. Stoev, R. Toma
Measurers L. Hudin, P. Short, O. Vaduvescu
2.5-m f/3.3 reflector + CCD
PPMXL

{23} 2001 NJ_6, 2, 1, 0; 2011 CG_{13}, 6, 1, 0; 2011 XK_4, 7, 1, 0; 2012 FH_{38}, 2, 1, 0; 2013 PY_{74}, 5, 1, 0; 2014 DS_{144}, 4, 1, 0; 2014 QG_{389}, 4, 1, 0; 2014 VZ_{37}, 6, 1, 0; 2015 BU_{442}, 5, 1, 0; 2015 BM_{445}, 6, 1, 0; 2015 TB_{353}, 4, 1, 0; 2017 HE_{32}, 8, 1, 0; 2017 NN_2, 5, 1, 0; 2017 OJ_{61}, 6, 1, 0; (459872), 9, 1, 0; (496570), 6, 1, 0; *[85, 16, 0*, 2009/11/14–2015/12/12]*

{3} 2010 AA_4, 8, 1, 0; 2011 LF_{10}, 3, 1, 0; 2012 PL_{24}, 3, 1, 0; 2015 GK_{43}, 3, 1, 0; 2017 RC_{17}, 6, 2, 5; *[23, 5, 0*, 1998/11/17–2016/01/17]*

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
Gaia-DR1

2017 SD_{12}, 3, 1, 0; *[3, 1, 0*, 2017/09/23]*

970 Chelmsford

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

(22926), 2, 1, 0; (28928), 2, 1, 0; (29338), 2, 1, 0; (32359), 2, 1, 0; (32456), 2, 1, 0; *[10, 5, 0*, 2017/08/01–2017/09/15]*

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

2015 BX_{98}, 3, 1, 0; 2016 TX_{93}, 2, 1, 0; (138925), 4, 1, 0; (332408), 3, 1, 0; (496815), 2, 1, 0; *[14, 5, 0*, 2010/12/11–2017/07/15]*

A14 Les Engarouines Observatory

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

2007 AT_{24}, 3, 1, 0; 2009 TP_{30}, 3, 1, 0; 2014 TB_{65}, 3, 1, 0; 2014 UT_{37}, 3, 1, 0; 2017 KZ_{26}, 3, 1, 0; 2017 OW_{48}, 3, 1, 0; *[18, 6, 0*, 2011/02/02–2012/09/07]*

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

2003 QW_{30}, 3, 1, 0; 2004 RJ_{10}, 3, 1, 0; 2004 TQ_{13}, 3, 1, 0; 2005 EF, 3, 1, 0; 2008 AX_{28}, 3, 1, 0; 2011 QR_{40}, 8, 3, 23; 2017 HH, 3, 1, 0; 2017 NL_6, 6, 2, 17; 2017 OT_{18}, 5, 2, 8; 2017 PE, 7, 2, 6; 2017 PF, 3, 1, 0; 2017 PR_{24}, 6, 2, 8; 2017 PS_{25}, 6, 2, 18; 2017 QX_1, 5, 1, 0; 2017 QM_{32}, 3, 1, 0; 2017 QN_{32}, 3, 1, 0; 2017 QV_{34}, 3, 1, 0; 2017 QT_{35}, 3, 1, 0; 2017 RJ, 3, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RV_2, 9, 2, 5; 2017 RV_{15}, 3, 1, 0; 2017 SS_{10}, 4, 1, 0; 2017 SB_{11}, 3, 1, 0; 2017 SD_{12}, 4, 1, 0; (17511), 3, 1, 0; (21397), 3, 1, 0; (23329), 3, 1, 0; (24526), 3, 1, 0; (27453), 3, 1, 0; (68306), 3, 1, 0; (77752), 3, 1, 0; (115253), 3, 1, 0; (129600), 3, 1, 0; (144250), 3, 1, 0; (150489), 3, 1, 0; (161338), 3, 1, 0; (172034), 3, 1, 0; (174197), 3, 1, 0; (176354), 3, 1, 0; (179008), 3, 1, 0; (180388), 3, 1, 0; (243750), 3, 1, 0; (322740), 3, 1, 0; *[162, 44, 0*, 2017/08/14–2017/09/23]*

A24 New Millennium Observatory, Mozzate

E. Cozzi, Via Borghi 14, I-22076 Mozzate, Italy [new.millennium@tin.it]
0.36-m f/11 Schmidt-Cassegrain + CCD
USNO-A2.0

2007 VM_{184}, 7, 2, 1; 2010 VH_{95}, 12, 3, 2; 2016 WJ_1, 11, 3, 2; (406), 8, 3, 2; (789), 4, 1, 0; (833), 4, 1, 0; (885), 4, 2, 1; (890), 2, 1, 0; (921), 12, 3, 2; (981), 4, 1, 0; (1128), 4, 2, 1; (1232), 4, 1, 0; (1324), 4, 2, 1; (1489), 3, 1, 0; (1495), 8, 2, 1; (1627), 16, 4, 23; (1688), 12, 3, 2; (1856), 4, 1, 0; (1943), 4, 1, 0; (2016), 3, 1, 0; (2045), 2, 1, 0; (2324), 4, 1, 0; (2338), 8, 2, 1; (2348), 10, 3, 2; (2472), 2, 1, 0; (2506), 6, 2, 1; (2580), 12, 3, 2; (2705), 8, 2, 1; (2707), 4, 1, 0; (2754), 4, 1, 0; (2845), 4, 1, 0; (3054), 16, 4, 23; (3056), 10, 3, 23; (3093), 2, 1, 0; (3100), 9, 3, 2; (3200), 8, 2, 21; (3439), 4, 1, 0; (3523), 4, 1, 0; (3638), 4, 1, 0; (3691), 10, 3, 2; (3882), 4, 1, 0; (3945), 4, 1, 0; (3948), 12, 3, 2; (4087), 4, 1, 0; (4164), 12, 3, 2; (4206), 12, 3, 2; (4300), 4, 1, 0; (4572), 4, 1, 0; (4628), 4, 1, 0; (4745), 4, 1, 0; (4912), 7, 2, 1; (5059), 4, 1, 0; (5143), 4, 1, 0; (5316), 4, 1, 0; (5322), 12, 3, 2; (5427), 4, 1, 0; (5547), 2, 1, 0; (5633), 8, 2, 1; (5653), 16, 4, 23; (5836), 18, 4, 23; (5845), 4, 1, 0; (5909), 4, 1, 0; (6046), 8, 2, 1; (6351), 2, 1, 0; (6355), 4, 1, 0; (6599), 4, 2, 1; (6628), 4, 1, 0; (6655), 12, 3, 2; (6680), 11, 3, 2; (6726), 4, 1, 0; (6856), 4, 1, 0; (6895), 2, 1, 0; (6990), 10, 3, 2; (6991), 4, 1, 0; (7035), 10, 3, 2; (7199), 4, 1, 0; (7222), 12, 3, 2; (7341), 4, 1, 0; (7493), 12, 3, 2; (7544), 12, 3, 2; (7553), 2, 1, 0; (7712), 2, 1, 0; (8004), 11, 3, 2; (8445), 4, 1, 0; (8514), 4, 1, 0; (8675), 4, 1, 0; (8774), 4, 1, 0; (8812), 4, 1, 0; (8859), 2, 1, 0; (8860), 4, 2, 1; (8995), 4, 1, 0; (9043), 3, 1, 0; (9093), 2, 1, 0; (9166), 11, 3, 2; (9181), 4, 1, 0; (9191), 4, 1, 0; (9516), 2, 1, 0; (9837), 2, 1, 0; (9840), 4, 1, 0; (9924), 4, 1, 0; (9970), 8, 2, 1; (9974), 4, 1, 0; (10257), 10, 3, 2; (10494), 2, 1, 0; (10500), 10, 3, 2; (10596), 4, 1, 0; (10620), 2, 1, 0; (10985), 4, 1, 0; (11107), 6, 2,

1; (11108), 12, 3, 2; (11148), 4, 1, 0; (11181), 4, 1, 0; (11386), 4, 1, 0; (11442), 4, 1, 0; (11525), 8, 2, 1; (11549), 2, 1, 0; (11713), 4, 1, 0; (11849), 2, 1, 0; (11884), 4, 1, 0; (12264), 3, 1, 0; (12538), 4, 1, 0; (12580), 3, 1, 0; (12617), 4, 1, 0; (12707), 4, 2, 1; (13065), 7, 2, 1; (13141), 12, 3, 2; (13253), 4, 1, 0; (13299), 8, 2, 1; (13436), 4, 1, 0; (13923), 4, 2, 1; (13950), 4, 1, 0; (14034), 10, 3, 2; (14171), 4, 1, 0; (14234), 4, 1, 0; (14496), 2, 1, 0; (14503), 4, 1, 0; (14687), 11, 3, 2; (14744), 2, 1, 0; (14838), 3, 1, 0; (15099), 8, 2, 1; (15162), 12, 3, 2; (15337), 14, 4, 23; (15519), 4, 1, 0; (15630), 4, 1, 0; (15635), 2, 1, 0; (15916), 6, 2, 1; (15976), 4, 1, 0; (16184), 4, 1, 0; (16358), 12, 3, 2; (16408), 4, 1, 0; (16543), 4, 1, 0; (16681), 8, 2, 21; (16936), 4, 1, 0; (17180), 4, 1, 0; (17272), 4, 1, 0; (17461), 4, 1, 0; (17650), 4, 1, 0; (18343), 3, 1, 0; (18421), 4, 1, 0; (18731), 14, 4, 23; (18847), 4, 1, 0; (18962), 8, 2, 1; (19069), 4, 1, 0; (19086), 4, 1, 0; (19291), 4, 1, 0; (19407), 6, 2, 21; (19445), 4, 1, 0; (19707), 4, 1, 0; (19977), 8, 2, 1; (20114), 4, 1, 0; (20120), 4, 1, 0; (20319), 4, 1, 0; (20462), 12, 3, 2; (20662), 11, 3, 2; (20780), 10, 3, 2; (20789), 4, 1, 0; (21019), 4, 1, 0; (21222), 4, 1, 0; (21316), 2, 1, 0; (21318), 4, 1, 0; (21547), 5, 1, 0; (21672), 6, 2, 1; (21750), 3, 1, 0; (21775), 6, 2, 1; (21807), 12, 3, 2; (21814), 2, 1, 0; (21859), 6, 2, 1; (22020), 2, 1, 0; (22024), 4, 1, 0; (22057), 2, 1, 0; (22097), 2, 1, 0; (22111), 3, 1, 0; (22289), 8, 3, 2; (22328), 2, 1, 0; (22370), 12, 3, 2; (22554), 2, 1, 0; (22693), 4, 1, 0; (22888), 4, 1, 0; (23177), 2, 1, 0; (23229), 4, 1, 0; (23304), 12, 3, 2; (23483), 8, 2, 1; (23510), 4, 1, 0; (23523), 6, 2, 1; (23693), 2, 1, 0; (23788), 6, 2, 1; (23829), 4, 1, 0; (23865), 4, 1, 0; (23898), 4, 1, 0; (23974), 4, 1, 0; (24194), 4, 1, 0; (24307), 4, 2, 1; (24681), 12, 3, 2; (24866), 4, 1, 0; (24898), 4, 1, 0; (25003), 6, 2, 1; (25352), 12, 3, 2; (25517), 4, 1, 0; (25581), 9, 3, 2; (25601), 2, 1, 0; (25998), 4, 1, 0; (26078), 3, 1, 0; (26340), 4, 1, 0; (26534), 4, 1, 0; (27025), 2, 1, 0; (27029), 6, 2, 1; (27162), 3, 1, 0; (27385), 4, 1, 0; (27393), 12, 3, 2; (27845), 8, 2, 1; (28190), 4, 1, 0; (28270), 4, 1, 0; (28370), 4, 1, 0; (28447), 3, 1, 0; (29483), 9, 3, 2; (29804), 4, 1, 0; (30194), 12, 3, 2; (30288), 4, 1, 0; (30702), 11, 3, 2; (30873), 10, 3, 2; (30999), 12, 3, 2; (31005), 4, 1, 0; (31167), 2, 1, 0; (31257), 4, 1, 0; (31408), 2, 1, 0; (31692), 2, 1, 0; (32177), 12, 3, 2; (32533), 10, 3, 2; (32579), 4, 2, 1; (33110), 2, 1, 0; (33805), 2, 1, 0; (34827), 4, 1, 0; (35526), 3, 1, 0; (35551), 2, 1, 0; (36775), 8, 2, 21; (37296), 12, 3, 2; (37354), 4, 2, 1; (37502), 10, 3, 2; (37771), 4, 1, 0; (38543), 2, 1, 0; (39556), 6, 2, 1; (39723), 4, 1, 0; (39989), 4, 1, 0; (40031), 4, 1, 0; (40835), 14, 3, 2; (41198), 4, 1, 0; (41693), 4, 1, 0; (42156), 4, 1, 0; (42499), 4, 1, 0; (43105), 16, 3, 2; (43115), 12, 3, 2; (43204), 4, 1, 0; (43223), 4, 1, 0; (43498), 12, 3, 2; (43964), 4, 1, 0; (44050), 3, 1, 0; (44067), 4, 1, 0; (44346), 2, 1, 0; (44540), 2, 1, 0; (44894), 7, 2, 1; (45189), 6, 2, 1; (45902), 12, 3, 2; (47327), 2, 1, 0; (47413), 4, 1, 0; (47495), 3, 1, 0; (47656), 12, 3, 2; (47661), 6, 2, 1; (48381), 2, 1, 0; (48761), 7, 2, 1; (48890), 3, 1, 0; (48900), 4, 1, 0; (48981), 4, 1, 0; (49173), 4, 1, 0; (49175), 10, 3, 2; (49910), 12, 3, 2; (50085), 4, 1, 0; (50769), 2, 1, 0; (51864), 4, 1, 0; (52026), 6, 1, 0; (52210), 12, 3, 2; (54117), 4, 1, 0; (54331), 2, 1, 0; (54883), 12, 3, 2; (55157), 11, 3, 2; (57176), 4, 1, 0; (59373), 6, 2, 1; (59796), 2, 1, 0; (60062), 4, 1, 0; (62026), 7, 2, 1; (62971), 8, 2, 1; (63060), 4, 1, 0; (63814), 2, 1, 0; (65591), 3, 1, 0; (66985), 12, 3, 2; (67053), 4, 1, 0; (67088), 4, 1, 0; (67152), 4, 1, 0; (68832), 4, 1, 0; (69966), 2, 1, 0; (70166), 4, 1, 0; (70564), 2, 1, 0; (70783), 8, 1, 0; (70806), 4, 1, 0; (70813), 12, 3, 2; (70978), 4, 1, 0; (71071), 12, 3, 2; (72165), 10, 3, 2; (73734), 4, 1, 0; (74124), 2, 1, 0; (74487), 6, 2, 1; (74537), 8, 2, 1; (75033), 12, 3, 2; (75269), 6, 2, 1; (76861), 4, 1, 0; (78299), 4, 1, 0; (78704), 4, 1, 0; (80545), 4, 1, 0; (82925), 2, 1, 0; (86162), 6, 2, 1; (86339), 4, 1, 0; (88094), 4, 1, 0; (88169), 4, 1, 0; (88344), 11, 3, 2; (88462), 4, 1, 0; (88561), 8, 2, 1; (91010), 4, 1, 0; (91137), 4, 1, 0; (91400), 12, 3, 2; (91689), 4, 1, 0; (91883), 8, 2, 1; (91937), 12, 3, 2; (92097), 7, 1, 0; (92845), 12, 3, 2; (92919), 2, 1, 0; (93637), 3, 1, 0; (93733), 4, 1, 0; (93830), 3, 1, 0; (96877), 11, 3, 2; (97514), 4, 1, 0; (100092), 2, 1, 0; (100979), 4, 1, 0; (101412), 2, 1, 0; (103525), 2, 1, 0; (105600), 4, 1, 0; (105783), 5, 1, 0; (106330), 4, 1, 0; (106450), 12, 3, 2; (106541), 2, 1, 0; (112742), 4, 1, 0; (113625), 2, 1, 0; (117057), 4, 1, 0; (118417), 6, 2, 1; (119014), 12, 3, 2; (119326), 4, 1, 0; (119365), 4, 1, 0; (131110), 12, 3, 2; (135805), 2, 1, 0; (137444), 4, 1, 0; (137722), 4, 1, 0; (138846), 12, 3, 2; (140041), 5, 1, 0; (144780), 2, 1, 0; (145880), 15, 3, 2; (148190), 10, 3, 2; (152563), 2, 1, 0; (152685), 3, 1, 0; (154646), 4, 1, 0; (155911), 4, 1, 0; (167506), 2, 1, 0; (169110), 12, 3, 2; (172334), 3, 1, 0; (173235), 9, 3, 2; (178685), 3, 1, 0; (187773), 5, 2, 1; (203217), 12, 3, 2; (206038), 2, 1, 0; (213222), 4, 1, 0; (225416), 18, 3, 2; (230187), 2, 1, 0; (259145), 4, 1, 0; (275611), 10, 3, 23; (275924), 4, 1, 0; (277304), 4, 1, 0; (286837), 2, 1, 0; (316799), 4, 1, 0; (326302), 2, 1, 0; (345705), 6, 1, 0; (378124), 11, 3, 2; (378610), 4, 1, 0; (394916), 6, 2, 1; (433953), 4, 2, 1; (452389), 4, 1, 0; (467963), 4, 1, 0; (474786), 4, 1, 0; (476701), 2, 1, 0; (477327), 4, 1, 0; (495102), 12, 3, 2; *[2371, 417, 0∗, 2016/11/08–2016/12/02]*

A29 Santa Maria a Monte
M. Bachini, Localitá Tavolaia, Santa Maria a Monte, I-56020 (PI), Italy
[maurobachini@tiscalinet.it]
Observers M. Bachini, G. Succi
0.30-m $f/4$ reflector + CCD, 0.40-m $f/5$ reflector + CCD
Gaia-DR1
2017 SP_{17}, 3, 1, 0; *[3, 1, 0∗, 2017/09/27]*

A48 Povegliano Veronese
F. Rossetti, Via Di Vittorio 6, Povegliano Veronese (Verona), Italy
[rosfla@libero.it]
0.30-m $f/5$ reflector + CCD
UCAC-4
2017 BM_{31}, 4, 1, 0; 2017 NH, 4, 1, 0; 2017 NS_5, 4, 1, 0; 2017 NM_6, 4, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 PT_{25}, 4, 1, 0; 2017 PJ_{26}, 4, 1, 0; 2017 PL_{26}, 4, 1, 0; 2017 RV_1, 4, 1, 0; 2017 SN_2, 4, 1, 0; *[39, 10, 0∗, 2017/07/13–2017/09/27]*

A50 Andrushivka Astronomical Observatory
Y. Ivashchenko, 3-7 Observatorna Sreet, Andrushivka, Zhytomyr reg, Ukraine
[yurets@gluk.org]
Observers D. Kyrylenko, Y. Ivashchenko, O. Gerashchenko, P. Ostafijchuk
Measurer A. Nikolajchuk
0.6-m reflector + CCD
USNO-A2.0
2009 TP_{30}, 3, 1, 0; 2014 QV_{33}, 3, 1, 0; 2016 AT_{147}, 11, 1, 0; *[17, 3, 0∗, 2011/02/06–2011/04/24]*

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
2017 BS_5, 5, 1, 0; 2017 BM_{31}, 5, 1, 0; 2017 CS, 3, 1, 0; 2017 GQ_6, 5, 1, 0; 2017 MB_1, 5, 1, 0; 2017 NH, 4, 1, 0; *[27, 6, 0∗, 2017/07/11–2017/07/18]*

A71 Stixendorf
W. Vollmann, Dammaeckergasse 28/D1/20, A-1210 Wien, Austria
[vollmann@gmx.at]
Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann
0.3-m $f/4$ reflector + CCD
UCAC-4
2017 QO_{33}, 2, 1, 0; 2017 SV_{13}, 2, 1, 0; (457175), 13, 5, 45; *[17, 3, 0∗, 2017/07/04–2017/09/22]*

A77 Observatoire Chante-Perdrix, Dauban
F. Kugel, Chante Perdrix, Dauban, F-04150 Banon, France [fkugel@wanadoo.fr]
Observers J.-F. Soulier, C. Rinner, F. Kugel, J. Nicolas, A. Klotz
0.41-m $f/3.3$ reflector + CCD, 0.20-m $f/4$ Schmidt-Cassegrain + CCD
UCAC-4, USNO-SA2.0, Gaia-DR1
2015 AP_{234}, 3, 1, 0; 2015 BX_{98}, 3, 1, 0; 2015 DL_{165}, 3, 1, 0; 2015 EC_{43}, 3, 1, 0; (2060), 2, 1, 0; (13277), 3, 1, 0; (20505), 3, 1, 0; (20802), 3, 1, 0; (24473), 3, 1, 0; (55945), 3, 1, 0; (60558), 2, 1, 0; (62101), 3, 1, 0; (93557), 2, 1, 0; (216613), 6, 2, 2; *[42, 14, 0∗, 2007/07/14–2017/09/30]*

A81 Balzaretto Observatory, Rome
L. Franco, via G. Balzaretto 80, I-00163 Roma, Italy [lor_franco@libero.it]
0.20-m $f/5.3$ reflector + CCD
UCAC-4
(3122), 8, 2, 2; *[8, 1, 0∗, 2017/08/30–2017/09/01]*

B04 OAVdA, Saint-Barthelemy
A. Carbognani, Osservatorio Astronomico della Regione Autonoma Valle d'Aosta, 39 Saint-Barthelemy Lignan, I-11020 Nus (Aosta), Italy
[albino@fis.unipr.it]
Observers R. Gilio, F. Ponzio, R. Gallotti, A. Belmonte, A. Carbognani, E. Meynet, U. Ghione, L. Pizzimenti, G. Cralli, L. Burli, E. Fontana, E. Maraboli, M. Collotti, M. Wolter, L. Buzzi

0.81-m f/4.7 reflector + CCD
UCAC-4, Gaia-DR1
2017 OF_7, 2, 1, 0; 2017 OH_7, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RX_1, 5, 1, 0; 2017 RJ_2, 3, 1, 0; 2017 SS_{10}, 4, 1, 0; 2017 SD_{12}, 5, 1, 0; 2017 SE_{12}, 2, 1, 0; (12538), 3, 1, 0; *[32, 10, 0∗, 2017/07/26–2017/09/22]*

B15 Inastars Observatory, Potsdam (since 2006)
B. Thinius, Moosgloeckchenweg 8, D-14478 Potsdam, Germany [thinius@t-online.de]
0.36-m f/5.6 Schmidt-Cassegrain + CCD
URAT-1
2017 RQ_2, 5, 1, 0; *[5, 1, 0∗, 2017/09/15]*

B18 Terskol
S. Barabanov, Institute of Astronomy of RAS, 48 Pyatnitskaya, Moscow 109017, Russia [inasan@burbonz.nalnet.ru]
Observers Y. Bufan, V. Godunova, A. Simon, O. Sergeev, A. Bondar, A. Sergeev, M. Andreev
0.6-m f/12.8 Cassegrain + CCD, 2-m f/8 Ritchey-Chrétien + CCD
Gaia-DR1, UCAC-4, NOMAD
2012 TC_4, 9, 3, 5; 2017 BS_5, 59, 1, 0; 2017 DM_{120}, 4, 1, 0; 2017 FA_{40}, 10, 1, 0; 2017 MC_4, 39, 1, 0; 2017 MY_7, 4, 1, 0; 2017 NS_6, 10, 1, 0; 2017 SY_2, 10, 1, 0; 2017 SA_3, 5, 1, 0; 2017 SN_{10}, 7, 1, 0; 2017 SW_{11}, 5, 1, 0; 2017 SY_{11}, 5, 1, 0; 2017 SA_{12}, 4, 1, 0; 2017 SL_{12}, 3, 1, 0; 2017 SY_{12}, 4, 1, 0; 2017 SB_{13}, 4, 1, 0; 2017 SC_{13}, 4, 1, 0; 2017 SD_{13}, 3, 1, 0; 2017 SF_{13}, 3, 1, 0; 2017 SG_{13}, 6, 1, 0; 2017 SH_{13}, 3, 1, 0; 2017 SJ_{13}, 4, 1, 0; 2017 SK_{13}, 3, 1, 0; 2017 SC_{14}, 3, 1, 0; 2017 SE_{14}, 3, 1, 0; 2017 SM_{14}, 4, 1, 0; 2017 ST_{14}, 4, 1, 0; 2017 SV_{14}, 3, 1, 0; 2017 SK_{16}, 4, 1, 0; 2017 SM_{16}, 4, 1, 0; 2017 SO_{16}, 3, 1, 0; 2017 SE_{19}, 2, 1, 0; (359993), 10, 1, 0; (370196), 3, 1, 0; *[251, 34, 0∗, 2015/09/07–2017/09/26]*

B20 Observatorio Carmelita, Tiana
J. M. Aymami, Av. Lluis Companys, 45-47, E-08391 Tiana, Spain [pepineus@telefonica.net]
0.25-m f/10 Schmidt-Cassegrain + CCD
CMC-15
2013 RT_{31}, 6, 2, 3; *[6, 1, 0∗, 2017/07/26–2017/07/29]*

B34 Green Island Observatory, Gecitkale
Y. Öğmen, Gecitkale, Magosa, Cyprus [yenalogmen@yahoo.com]
0.36-m f/10 Ritchey-Chrétien + CCD + f/6.3 focal reducer
UCAC-4
2017 OP_{68}, 22, 1, 0; 2017 PR_{24}, 2, 1, 0; 2017 PR_{25}, 24, 1, 0; 2017 RV_1, 25, 1, 0; (3), 2, 1, 0; (3122), 3, 1, 0; (5001), 3, 1, 0; (7336), 26, 1, 0; (11398), 3, 1, 0; (20460), 3, 1, 0; (68950), 21, 2, 45; (90075), 25, 1, 0; (142561), 3, 1, 0; *[162, 13, 0∗, 2017/08/02–2017/09/22]*

B38 Santa Mama
S. Trevisan, Castagnoli 127/I, Subbiano, Italy [stelucy3@interfree.it]
0.30-m f/10 reflector + CCD + f/6.3 focal reducer
Gaia-DR1
(2329), 3, 1, 0; (153415), 1, 1, 0; *[4, 2, 0∗, 2017/08/12–2017/08/14]*

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, UCAC-4
2017 NM_6, 5, 1, 0; 2017 OM_1, 6, 2, 1; 2017 OH_7, 6, 2, 1; 2017 OK_7, 2, 1, 0; 2017 RJ, 2, 1, 0; 2017 RL, 3, 1, 0; 2017 RC_1, 3, 1, 0; 2017 RV_1, 9, 2, 1; 2017 RX_1, 6, 2, 1; 2017 RQ_2, 3, 1, 0; 2017 RU_2, 2, 1, 0; 2017 RV_2, 6, 2, 1; 2017 RU_{17}, 3, 1, 0; 2017 SD_{12}, 3, 1, 0; 2017 SM_{12}, 3, 1, 0; 2017 SP_{17}, 3, 1, 0; *[65, 16, 0∗, 2017/07/15–2017/09/27]*

B54 Ager
J. Bel, C/Afores s/n, E-25691 Àger, Spain [aliextra@tele2.es]
0.30-m f/10.28 Schmidt-Cassegrain + CCD
USNO-A2.0, CMC-15
(11500), 3, 1, 0; (68950), 2, 1, 0; (142464), 3, 1, 0; *[8, 3, 0∗, 2017/08/24–2017/08/25]*

B66 Osservatorio di Casasco
W. Borghini, Strada Ca' Simone, Casasco (AL), Italy [w.borghini@alice.it]
Observers W. Borghini, V. Luna
0.4-m f/7.3 Ritchey-Chrétien + CCD
USNO-SA2.0
2017 MB_1, 2, 1, 0; 2017 NH, 2, 1, 0; (3122), 5, 1, 0; (20460), 4, 2, 16; (66391), 2, 1, 0; (68950), 2, 1, 0; (136818), 2, 1, 0; (142561), 4, 2, 16; (190166), 2, 1, 0; (457175), 2, 1, 0; *[27, 10, 0∗, 2017/07/16–2017/09/20]*

B67 Sternwarte Mirasteilas, Falera
J. De Queiroz, Sternwarte Mirasteilas, CH-7153 Falera, Graubünden, Switzerland [encarna@kns.ch]
0.90-m f/6.7 reflector + CCD
USNO-B1.0
2013 AP_{60}, 3, 1, 0; 2017 FJ_{90}, 3, 1, 0; *[6, 2, 0∗, 2017/09/27]*

B74 Santa Maria de Montmagastrell
J. M. Bosch, Carrer del Nord, 29, 3r, 2a, E-25300 Tàrrega, Spain [jbosch1@xtec.cat]
0.40-m f/10 Schmidt-Cassegrain + CCD
UCAC-4, CMC
1993 RA, 3, 1, 0; 2006 PH_{13}, 6, 2, 1; 2006 RV_{87}, 3, 1, 0; 2006 TP_3, 3, 1, 0; 2012 TA_{168}, 3, 1, 0; 2012 TC_{284}, 3, 1, 0; 2012 TH_{321}, 3, 1, 0; 2013 QO_{72}, 3, 1, 0; 2014 UZ_{84}, 3, 1, 0; 2014 WL_{412}, 3, 1, 0; 2015 AK_{158}, 9, 3, 11; 2015 DG_{146}, 6, 2, 2; 2015 DG_{152}, 6, 2, 1; 2015 DZ_{212}, 3, 1, 0; 2016 FD_{27}, 6, 2, 9; 2016 GT_{151}, 3, 1, 0; 2016 GH_{240}, 3, 1, 0; 2016 SU_8, 3, 1, 0; 2016 SV_8, 3, 1, 0; 2017 MP_1, 12, 4, 14; 2017 MZ_4, 12, 4, 15; 2017 NH_2, 17, 6, 35; 2017 OP, 6, 2, 2; 2017 OM_1, 3, 1, 0; 2017 ON_1, 3, 1, 0; 2017 OM_4 ∗, 18, 6, 29; 2017 OF_7, 3, 1, 0; 2017 OY_7, 3, 1, 0; 2017 ON_{36} ∗, 6, 2, 3; 2017 PR_{24}, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 PB_{26}, 3, 1, 0; 2017 PL_{26}, 3, 1, 0; 2017 PR_{27} ∗, 18, 6, 10; 2017 QG_3, 3, 1, 0; 2017 QR_7, 3, 1, 0; 2017 QD_{15}, 3, 1, 0; 2017 QG_{16} ∗, 9, 3, 4; 2017 QB_{25} ∗, 12, 4, 10; 2017 QC_{25} ∗, 12, 4, 26; 2017 QL_{35}, 3, 1, 0; 2017 RU_1, 3, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RO_5 ∗, 9, 3, 3; 2017 SP_8 ∗, 6, 2, 2; 2017 SQ_8 ∗, 9, 3, 7; 2017 SR_8 ∗, 15, 5, 12; 2017 SX_{14} ∗, 6, 2, 5; 2017 SY_{14} ∗, 6, 2, 5; (6168), 3, 1, 0; (10348), 3, 1, 0; (16024), 3, 1, 0; (17883), 6, 2, 3; (21605), 3, 1, 0; (27481), 3, 1, 0; (27561), 3, 1, 0; (27687), 3, 1, 0; (27869), 3, 1, 0; (29029), 6, 2, 2; (30127), 3, 1, 0; (30475), 2, 1, 0; (32905), 3, 1, 0; (33703), 6, 2, 1; (35173), 3, 1, 0; (36397), 3, 1, 0; (38216), 3, 1, 0; (39538), 3, 1, 0; (39935), 3, 1, 0; (42347), 3, 1, 0; (47406), 3, 1, 0; (47486), 3, 1, 0; (49164), 3, 1, 0; (50239), 3, 1, 0; (50905), 3, 1, 0; (55196), 3, 1, 0; (56218), 3, 1, 0; (56293), 3, 1, 0; (58212), 3, 1, 0; (63575), 3, 1, 0; (64290), 6, 2, 1; (64328), 3, 1, 0; (64465), 3, 1, 0; (64660), 3, 1, 0; (65772), 3, 1, 0; (66713), 6, 2, 2; (70406), 3, 1, 0; (70450), 3, 1, 0; (73145), 6, 2, 3; (73284), 3, 1, 0; (74761), 6, 2, 8; (77810), 3, 1, 0; (78513), 3, 1, 0; (79481), 3, 1, 0; (87534), 3, 1, 0; (88507), 3, 1, 0; (88883), 3, 1, 0; (89041), 6, 2, 3; (89415), 3, 1, 0; (91128), 2, 1, 0; (92421), 3, 1, 0; (93902), 3, 1, 0; (95819), 6, 2, 2; (96441), 3, 1, 0; (99362), 3, 1, 0; (108017), 3, 1, 0; (115249), 3, 1, 0; (116534), 3, 1, 0; (122633), 3, 1, 0; (123046), 3, 1, 0; (127238), 3, 1, 0; (128096), 3, 1, 0; (137877), 3, 1, 0; (138681), 3, 1, 0; (139135), 3, 1, 0; (140916), 3, 1, 0; (141961), 6, 2, 4; (144402), 3, 1, 0; (144443), 3, 1, 0; (148680), 3, 1, 0; (150680), 3, 1, 0; (155417), 3, 1, 0; (162020), 3, 1, 0; (163047), 3, 1, 0; (163685), 3, 1, 0; (167601), 3, 1, 0; (172020), 3, 1, 0; (172039), 3, 1, 0; (172348), 3, 1, 0; (175508), 3, 1, 0; (179889), 3, 1, 0; (181528), 9, 3, 4; (184201), 3, 1, 0; (184873), 3, 1, 0; (185014), 6, 2, 1; (188806), 3, 1, 0; (192858), 3, 1, 0; (196589), 3, 1, 0; (198098), 3, 1, 0; (206832), 6, 2, 1; (209368), 3, 1, 0; (209389), 3, 1, 0; (210070), 3, 1, 0; (212976), 9, 3, 4; (214174), 6, 2, 1; (218961), 12, 4, 9; (222754), 3, 1, 0; (224215), 3, 1, 0; (227572), 3, 1, 0; (228529), 6, 2, 6; (231993), 3, 1, 0; (233729), 3, 1, 0; (237428), 3, 1, 0; (242481), 3, 1, 0; (245454), 3, 1, 0; (246376), 6, 2, 1; (250100), 3, 1, 0; (250286), 3, 1, 0; (255797), 6, 2, 1; (258876), 3, 1, 0; (270549), 3, 1, 0; (272987), 3, 1, 0; (274789), 6, 2, 4; (277361), 3, 1, 0; (280158), 3, 1, 0; (280179), 3, 1, 0; (281175), 3, 1, 0; (282900), 3, 1, 0; (284098), 6, 2, 8; (284798), 3, 1, 0; (286782), 3, 1, 0; (289418), 3, 1, 0; (293049), 3, 1, 0; (293640), 3, 1, 0; (296336), 3, 1, 0; (301294), 3, 1, 0; (315207), 3, 1, 0; (323678), 3, 1, 0; (326721), 3, 1, 0; (332185), 3, 1, 0; (341290), 3, 1, 0; (346788), 3, 1, 0; (367734), 6, 2, 10; (368430), 3, 1, 0; (370926), 3, 1, 0; (372494), 3, 1, 0; (372528), 3, 1, 0; (374122), 3, 1, 0; (377367), 3, 1, 0; (380617),

3, 1, 0; (380871), 3, 1, 0; (388761), 3, 1, 0; (401177), 3, 1, 0; (423382), 3, 1, 0; (431167), 3, 1, 0; (431842), 3, 1, 0; (433178), 3, 1, 0; (435604), 2, 1, 0; (453766), 3, 1, 0; (467618), 3, 1, 0; (469108), 3, 1, 0; *[818, 200, 12∗, 2013/09/29–2017/09/29]*

B75 Stazione Astronomica Betelgeuse, Magnago
M. Martignoni, Via Don Minzoni 26D, I-20020 Magnago (Milano), Italy
[massimiliano.martignoni@alice.it]
0.25-m $f/10$ Schmidt-Cassegrain + CCD
URAT-1
(5685), 5, 1, 0; *[5, 1, 0∗, 2017/08/24]*

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
2017 OT_{18}, 3, 1, 0; *[3, 1, 0∗, 2017/09/23]*

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
(6053), 27, 2, 1; *[27, 1, 0∗, 2017/08/20–2017/08/22]*

B96 Brixiis Observatory, Kruibeke
E. Bryssinck, Eyckensbeekstraat 2, Kruibeke, Belgium
[erik.bryssinck@telenet.be]
0.4-m $f/3.8$ astrograph + CCD
USNO-A2.0, CMC-15, UCAC-4
2017 NN_2, 6, 1, 0; (950), 6, 1, 0; (1255), 6, 1, 0; (3142), 4, 1, 0; (20505), 3, 1, 0; (20802), 4, 1, 0; (22654), 6, 1, 0; (31227), 3, 1, 0; (308631), 6, 1, 0; (457175), 8, 1, 0; *[52, 10, 0∗, 2017/07/09–2017/09/25]*

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
(2060), 4, 2, 22; (3200), 6, 2, 40; (5513), 2, 1, 0; (7320), 2, 1, 0; (10366), 3, 1, 0; (10944), 2, 1, 0; (14620), 2, 1, 0; (16464), 2, 1, 0; (21008), 2, 1, 0; (28348), 2, 1, 0; (32962), 2, 1, 0; (33546), 1, 1, 0; (39535), 2, 1, 0; (44157), 2, 1, 0; (60558), 4, 2, 22; (60859), 2, 1, 0; (67357), 2, 1, 0; (88030), 2, 1, 0; (94583), 2, 1, 0; (97794), 2, 1, 0; (115918), 2, 1, 0; (119882), 2, 1, 0; (123573), 2, 1, 0; (125898), 2, 1, 0; (134648), 2, 1, 0; (140627), 2, 1, 0; (160005), 2, 1, 0; (162564), 2, 1, 0; (181080), 2, 1, 0; (210726), 2, 1, 0; (233215), 2, 1, 0; (286184), 1, 1, 0; (373280), 2, 1, 0; (380625), 2, 1, 0; (430654), 2, 1, 0; (433743), 2, 1, 0; (462107), 2, 1, 0; *[81, 37, 0∗, 2017/08/14–2017/09/23]*

C23 Olmen
A. Diepvens, B-2491 Olmen, Belgium [alfons.diepvens@telenet.be]
0.20-m $f/9$ refractor + CCD
UCAC-4
2017 BM_{31}, 12, 4, 15; 2017 MB_1, 14, 4, 9; 2017 NH, 26, 4, 9; 2017 NS_5, 10, 2, 3; 2017 PR_{25}, 10, 2, 4; 2017 PJ_{26}, 8, 2, 1; 2017 RV_1, 11, 3, 5; 2017 SN_2, 10, 2, 1; (222), 3, 1, 0; (3122), 40, 3, 25; (3895), 3, 1, 0; (9693), 3, 1, 0; (18309), 3, 1, 0; (22129), 3, 1, 0; (31498), 3, 1, 0; (46334), 3, 1, 0; (66146), 6, 2, 10; (98335), 3, 1, 0; (190166), 36, 11, 51; (457175), 19, 7, 65; *[226, 20, 0∗, 2017/07/08–2017/09/25]*

C27 Pallerols
A. Jorba, Psje Garcini 3, E-08007 Barcelona, Spain [angel.jorba@gmail.com]
0.36-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4, Gaia-DR1
2017 OD_1, 2, 1, 0; 2017 OL_1, 8, 2, 12; (3122), 5, 1, 0; (9202), 3, 1, 0; (281314), 3, 1, 0; *[21, 5, 0∗, 2017/07/31–2017/09/01]*

C36 Starry Wanderer Observatory, Baran'
S. Shurpakov, 211011, 1 Korban Street, f. 22, Baran', Belarus
[shurpakou_A98@belastro.net]
0.25-m $f/4.7$ Newtonian reflector + CCD
UCAC-4
(308631), 7, 1, 0; *[7, 1, 0∗, 2017/09/26]*

C41 MASTER-II Observatory, Kislovodsk
V. Lipunov, 119992 Universitetskiy pr. 13, Sternberg Astronomical Institute, Moscow, Russia [lipunov2007@gmail.com]
Observers A. Rezaeva, 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
USNO-B1.0
2017 RV_1, 5, 1, 0; (5143), 3, 1, 0; (27567), 6, 1, 0; *[14, 3, 0∗, 2017/08/02–2017/09/20]*

C42 Xingming Observatory, Mt. Nanshan
X. Gao, Urumqi No. 1 Middle School, XinJiang, China [webmaster@xjltp.com]
Observers Z. Xu, X. Gao, H. Tan, X. Liao X. Gao, A. Li, Q. Yin, J. Ruan, X. Liao, G. Sun, P. Sun
0.5-m $f/4$ reflector + CCD
UCAC-4, Gaia-DR1, USNO-B1.0, USNO-A2.0
2009 UF_{159}, 4, 1, 0; 2012 TK_5, 4, 1, 0; 2012 TG_{33}, 3, 1, 0; 2014 UP_{192}, 6, 2, 1; 2017 BF_{78}, 3, 1, 0; 2017 NN_2 ∗, 11, 3, 2; 2017 OD_1, 3, 1, 0; 2017 ON_2 ∗, 3, 1, 0; 2017 QM_{32}, 3, 1, 0; 2017 QB_{33}, 3, 1, 0; 2017 SY_1, 4, 1, 0; 2017 SH_9 ∗, 3, 1, 0; 2017 SJ_9 ∗, 3, 1, 0; 2017 SK_9 ∗, 2, 1, 0; 2017 SQ_9 ∗, 3, 1, 0; 2017 SS_{15} ∗, 3, 1, 0; 2017 ST_{15} ∗, 6, 2, 1; 2017 SF_{17}, 3, 1, 0; (21729), 3, 1, 0; *[73, 19, 8∗, 2017/01/26–2017/09/21]*

C43 Hoyerswerda
P. Lindner, Ringstraße 21, D-02977 Hoyerswerda, Germany
[peter.lindner@arcor.de]
0.30-m $f/6.3$ Schmidt-Cassegrain + CCD
URAT-1, UCAC-4
2006 VK_{58}, 2, 1, 0; 2017 QM_{32}, 2, 1, 0; 2017 QN_{32}, 3, 1, 0; 2017 QB_{33}, 3, 1, 0; 2017 RC_1, 2, 1, 0; 2017 RP_1, 4, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RX_1, 5, 1, 0; (506), 2, 1, 0; (1583), 2, 1, 0; (3762), 2, 1, 0; (4779), 2, 1, 0; (10526), 2, 1, 0; (20460), 2, 1, 0; (27160), 2, 1, 0; (27869), 2, 1, 0; (30475), 2, 1, 0; (32565), 2, 1, 0; (38216), 2, 1, 0; (39535), 2, 1, 0; (46860), 2, 1, 0; (50587), 2, 1, 0; (55843), 2, 1, 0; (58974), 2, 1, 0; (64106), 2, 1, 0; (69444), 2, 1, 0; (71824), 2, 1, 0; (74008), 2, 1, 0; (82111), 2, 1, 0; (85985), 2, 1, 0; (88705), 2, 1, 0; (91485), 2, 1, 0; (91541), 2, 1, 0; (148636), 2, 1, 0; (163535), 2, 1, 0; (166643), 2, 1, 0; (173136), 2, 1, 0; (177314), 2, 1, 0; (178512), 2, 1, 0; (185879), 2, 1, 0; (238395), 2, 1, 0; (252067), 2, 1, 0; (254606), 2, 1, 0; (255598), 2, 1, 0; (264657), 2, 1, 0; (268086), 2, 1, 0; (431475), 2, 1, 0; *[104, 48, 0∗, 2017/07/13–2017/09/19]*

C47 Nonndorf
G. Dangl, Nonndorf 12, A-3830, Austria [gerhard@dangl.at]
0.25-m $f/4.8$ reflector + CCD
URAT-1, UCAC-4
2008 UF_{314}, 5, 1, 0; 2016 JG_6, 3, 1, 0; 2017 MB_1, 6, 1, 0; 2017 OG_1, 5, 1, 0; 2017 OL_1, 5, 1, 0; 2017 OH_7, 5, 1, 0; 2017 OL_{18}, 5, 1, 0; 2017 PD_{25}, 6, 1, 0; 2017 PR_{25}, 5, 1, 0; 2017 PV_{25}, 5, 1, 0; 2017 PL_{26}, 13, 2, 9; 2017 QE, 4, 1, 0; 2017 QS_{16}, 7, 1, 0; 2017 RV_1, 5, 1, 0; 2017 SN_2, 5, 1, 0; (2036), 2, 1, 0; (16803), 4, 1, 0; (29487), 4, 1, 0; (81787), 4, 1, 0; (457175), 4, 1, 0; *[102, 20, 0∗, 2016/05/05–2017/09/30]*

C48 Sayan Solar Observatory, Irkutsk

Y. Karavaev, 664033, PO Box 291, Irkutsk, Russia [y-kar@bk.ru]
Observer Y. Karavaev
Measurer T. Tsukker

1.6-m $f/4.4$ Ritchey-Chrétien + CCD
UCAC-4

2002 VG_{71}, 4, 1, 0; 2010 VA_{90}, 5, 1, 0; 2013 YC_{112}, 5, 1, 0; 2016 ED_{131}, 5, 1, 0; 2017 RF_{17}, 5, 1, 0; (36625), 4, 1, 0; (44710), 4, 1, 0; (46815), 4, 1, 0; (73148), 5, 1, 0; (79170), 5, 1, 0; (89899), 5, 1, 0; (92870), 4, 1, 0; (100792), 4, 1, 0; (105473), 5, 1, 0; (127182), 5, 1, 0; (138609), 4, 1, 0; (139776), 5, 1, 0; (149492), 4, 1, 0; (155152), 5, 1, 0; (158490), 5, 1, 0; (176485), 5, 1, 0; (180743), 5, 1, 0; (181120), 4, 1, 0; (181326), 5, 1, 0; (188240), 4, 1, 0; (188425), 5, 1, 0; (196497), 4, 1, 0; (202614), 5, 1, 0; (204570), 5, 1, 0; (217188), 5, 1, 0; (221540), 5, 1, 0; (253397), 4, 1, 0; (274795), 3, 1, 0; (277454), 5, 1, 0; (296355), 4, 1, 0; (300871), 4, 1, 0; (302382), 5, 1, 0; (328881), 4, 1, 0; (346712), 3, 1, 0; (348968), 5, 1, 0; (366178), 5, 1, 0; (373130), 5, 1, 0; (375874), 5, 1, 0; (380819), 5, 1, 0; (382284), 5, 1, 0; (384018), 4, 1, 0; (384901), 4, 1, 0; (455557), 5, 1, 0; *[219, 48, 0*, 2017/09/18]*

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, E. Redwing
http://wise.ssl.berkeley.edu/mission_sci.html
2MASS

1989 VB, 14, 1, 0; 1998 SZ_{27}, 10, 1, 0; 2001 HJ_{30}, 32, 4, 2; 2002 JS_2, 12, 1, 0; 2002 UL_9, 24, 3, 2; 2003 QZ_{12}, 26, 3, 2; 2003 SC_{145}, 18, 3, 2; 2004 HE_{35}, 12, 1, 0; 2004 PC_{67}, 92, 12, 14; 2004 RH_{84}, 150, 19, 18; 2006 BZ_{43}, 18, 3, 1; 2006 LX_4, 44, 4, 2; 2006 VF_{100}, 36, 4, 2; 2007 AL_{15}, 52, 6, 6; 2007 TR_{65}, 18, 2, 1; 2008 QZ_{43}, 20, 3, 1; 2008 RN_{32}, 38, 5, 6; 2009 WC_{52}, 56, 9, 15; 2009 WB_{142}, 10, 1, 0; 2010 AO_{65}, 24, 4, 2; 2010 CO_1, 10, 1, 0; 2010 RE_{137}, 66, 9, 8; 2010 WL, 10, 1, 0; 2011 QR_{40}, 18, 3, 2; 2011 RB_{17}, 16, 3, 1; 2011 SC_{34}, 26, 3, 1; 2012 KV_{12}, 18, 3, 1; 2013 KH_7, 10, 2, 1; 2013 NL_8, 10, 2, 1; 2014 AC, 4, 1, 0; 2014 AG_{16}, 8, 1, 0; 2014 AK_{51}, 4, 1, 0; 2014 AN_{51}, 2, 1, 0; 2014 BX_2, 4, 1, 0; 2014 BR_8, 6, 1, 0; 2014 BH_{25}, 6, 1, 0; 2014 BM_{62}, 4, 1, 0; 2014 CR, 2, 1, 0; 2014 CD_{13}, 2, 1, 0; 2014 DC, 2, 1, 0; 2014 FD, 2, 1, 0; 2014 GJ_{35}, 4, 1, 0; 2014 GD_{50}, 6, 1, 0; 2014 HG_4, 8, 1, 0; 2014 JV_{55}, 4, 1, 0; 2014 KO_{76}, 8, 1, 0; 2014 KV_{86}, 4, 1, 0; 2014 MS_5, 2, 1, 0; 2014 MF_{18}, 10, 2, 1; 2014 NE_3, 4, 1, 0; 2014 NK_{52}, 8, 1, 0; 2014 PS_{59}, 10, 1, 0; 2014 PW_{59}, 4, 1, 0; 2014 QT_{295}, 4, 1, 0; 2014 RQ_{17}, 4, 1, 0; 2014 SV_{141}, 16, 2, 1; 2014 SU_{260}, 4, 1, 0; 2014 VG_2, 10, 1, 0; 2014 VK_2, 14, 2, 1; 2014 VL_6, 6, 1, 0; 2014 WL_6, 6, 1, 0; 2014 WZ_{120}, 4, 1, 0; 2014 WK_{368}, 6, 1, 0; 2014 XT_3, 16, 3, 1; 2014 XK_6, 2, 1, 0; 2014 YL_{14}, 2, 1, 0; 2015 BW_{310}, 8, 1, 0; 2015 BN_{509}, 8, 1, 0; 2015 CX_{12}, 2, 1, 0; 2015 CP_{13}, 8, 1, 0; 2015 DA_{54}, 2, 1, 0; 2015 DU_{180}, 2, 1, 0; 2015 DN_{215}, 4, 1, 0; 2015 ED_7, 2, 1, 0; 2015 EE_7, 12, 1, 0; 2015 FL, 4, 1, 0; 2015 FS_{33}, 4, 1, 0; 2015 FN_{120}, 2, 1, 0; 2015 FD_{341}, 8, 1, 0; 2015 GS, 4, 1, 0; 2015 HF_1, 6, 1, 0; 2015 HU_{171}, 8, 1, 0; 2015 HX_{181}, 2, 1, 0; 2015 JC_2, 8, 1, 0; 2015 KN_{122}, 8, 1, 0; 2015 LL_{21}, 6, 1, 0; 2015 LM_{21}, 2, 1, 0; 2015 MT_{59}, 8, 1, 0; 2015 MN_{116}, 16, 1, 0; 2015 NZ_{13}, 2, 1, 0; 2015 PC, 8, 1, 0; 2015 PK_{57}, 6, 1, 0; 2015 PU_{228}, 2, 1, 0; 2015 QG, 2, 1, 0; 2015 TE, 2, 1, 0; 2015 TX_{24}, 6, 1, 0; 2015 TK_{238}, 4, 1, 0; 2015 TD_{323}, 4, 1, 0; 2015 UM_{67}, 4, 1, 0; 2015 VE_1, 6, 1, 0; 2015 VF_1, 4, 1, 0; 2015 VB_{65}, 4, 1, 0; 2015 VU_{65}, 2, 1, 0; 2015 WG_9, 2, 1, 0; 2015 WH_{13}, 6, 1, 0; 2015 XE, 8, 1, 0; 2015 XD_1, 6, 1, 0; 2015 XK_1, 12, 1, 0; 2015 XO_{129}, 4, 1, 0; 2015 YK, 10, 1, 0; 2015 YB_1, 4, 1, 0; 2015 YX_7, 14, 1, 0; 2015 YT_{10}, 14, 1, 0; 2016 AD_{166}, 2, 1, 0; 2016 BP_{14}, 10, 1, 0; 2016 BJ_{15}, 4, 1, 0; 2016 BR_{80}, 8, 1, 0; 2016 CU_{30}, 10, 2, 1; 2016 CB_{31}, 4, 1, 0; 2016 CA_{136}, 26, 3, 1; 2016 CL_{136}, 6, 1, 0; 2016 DO_2, 4, 1, 0; 2016 EE_1, 2, 1, 0; 2016 EV_1, 4, 1, 0; 2016 EZ_{26}, 12, 1, 0; 2016 EH_{157}, 10, 1, 0; 2016 FY_3, 2, 1, 0; 2016 FE_{12}, 6, 1, 0; 2016 FC_{13}, 8, 1, 0; 2016 GP_{220}, 4, 1, 0; 2016 JM_{17}, 6, 1, 0; 2016 JW_{28}, 2, 1, 0; 2016 JU_{33}, 4, 1, 0; 2016 KD, 8, 1, 0; 2016 LB, 8, 1, 0; 2016 LF_2, 18, 2, 1; 2016 LD_9, 2, 1, 0; 2016 LV_{47}, 6, 1, 0; 2016 PN, 4, 1, 0; 2016 PT, 14, 1, 0; 2016 PO_8, 20, 2, 1; 2016 RW, 2, 1, 0; 2016 RM_{40}, 2, 1, 0; 2016 SG_2, 2, 1, 0; 2016 TB_{11}, 2, 1, 0; 2016 TX_{17}, 2, 1, 0; 2016 TZ_{19}, 2, 1, 0; 2016 TM_{56}, 2, 1, 0; 2016 TA_{57}, 4, 1, 0; 2016 TB_{57}, 4, 1, 0; 2016 UZ_{25}, 2, 1, 0; 2016 UD_{41}, 6, 1, 0; 2016 UH_{101}, 4, 1, 0; 2016 VY_{17}, 12, 2, 1; 2016 WN_{48}, 4, 1, 0; 2016 XA_{18}, 2, 1, 0; 2017 GY_6, 10, 2, 1; 2017 HH, 16, 2, 1; 2017 HY_{50}, 32, 4, 3; 2017 KW_{33}, 14, 3, 1; 2017 LU, 62, 6, 7; 2017 MB_1, 2, 1, 0; 2017 MA_8, 12, 2, 1; 2017 MD_9 *, 16, 2, 1; 2017 ME_9 *, 20, 4, 2; 2017 NR_5 *, 22, 3, 2; 2017 NU_5 *, 20, 3, 2; 2017 NW_6 *, 20, 3, 1; 2017 OO_1, 8, 1, 0; 2017 OF_3 *, 14, 2, 1; 2017 OC_4 *, 10, 2, 1; 2017 OE_{68} *, 48, 6, 3; 2017 OM_{68} *, 42, 5, 8; 2017 OP_{68} *, 20, 3, 1; 2017 OY_{68} *, 22, 3, 2; 2017 OD_{69} *, 24, 4, 3; 2017 PD *, 22, 4, 2; 2017 PG_{25} *, 18, 2, 1; 2017 PH_{25} *, 26, 3, 1; 2017 PD_{27} *, 10, 3, 1; 2017 PE_{27} *, 14, 2, 1; 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(496005), 12, 2, 1; (496081), 18, 4, 2; *[71532, 3373, 33*, 2010/02/23–2017/09/29]*

C77 Bernezzo Observatory

A. Mantero, Via Maggiori 28, Bernezzo Italy [manteandrea@libero.it]
0.25-m $f/4.0$ reflector + CCD
UCAC-4

2013 TZ_{135}, 3, 1, 0; 2014 YC_{15}, 3, 1, 0; 2017 BM_{31}, 4, 1, 0; 2017 NV_{5}, 3, 1, 0; 2017 NM_{6}, 4, 1, 0; 2017 OD, 3, 1, 0; 2017 PD_{25}, 3, 1, 0; 2017 PT_{25}, 4, 1, 0; 2017 PV_{25}, 4, 1, 0; 2017 PL_{26}, 3, 1, 0; 2017 PY_{26}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; 2017 QJ_{35}, 2, 1, 0; 2017 RU_{1}, 3, 1, 0; 2017 RV_{1}, 3, 1, 0; 2017 RX_{1}, 3, 1, 0; 2017 SM_{12}, 4, 1, 0; 2017 SP_{17}, 3, 1, 0; (3122), 4, 1, 0; (457175), 3, 1, 0; *[65, 20, 0*, 2017/07/11–2017/09/28]*

C85 Observatorio Cala d'Hort, Ibiza

I. de la Cueva, Abad y Lasierra 58Bis, Ibiza 07800, Spain
[ignaciodelacueva@redfarma.org]
0.50-m $f/3.6$ reflector + CCD
UCAC-4

2013 WG_{110}, 3, 1, 0; 2015 DF_{153}, 7, 1, 0; 2015 SO_{20}, 3, 1, 0; 2016 CX_{150}, 6, 1, 0; *[19, 4, 0*, 2013/12/05–2017/09/24]*

C91 Montevenere Observatory, Monzuno

M. Brusa, Via Valle, 14, I-40036 Monzuno (BO), Italy
[michele.brusa@tiscali.it]
Observers M. Brusa, L. Sempio
0.30-m $f/4.9$ reflector + CCD
GSC-1.1

2008 BZ_{41}, 4, 1, 0; *[4, 1, 0*, 2012/12/18]*

C95 SATINO Remote Observatory, Haute Provence

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

2003 SX_{209}, 2, 1, 0; 2004 XK_{98}, 3, 1, 0; 2005 TW_{156}, 2, 1, 0; 2006 VK_{58}, 11, 3, 3; 2007 US_{47}, 2, 1, 0; 2012 UX_{25}, 6, 2, 4; 2012 UT_{32}, 3, 1, 0; 2012 UW_{119}, 2, 1, 0; 2012 UG_{135}, 4, 1, 0; 2012 VO_{99}, 3, 1, 0; 2013 QV_{61}, 3, 1, 0; 2013 QP_{82}, 3, 1, 0; 2013 SV_{34}, 7, 3, 11; 2013 TK_{141}, 10, 3, 3; 2013 YQ_{141}, 3, 1, 0; 2014 UD_{135}, 2, 1, 0; 2014 WF_{468}, 3, 1, 0; 2015 BH_{65}, 4, 1, 0; 2015 BH_{195}, 5, 2, 2; 2015 BQ_{310}, 4, 2, 2; 2015 BJ_{504}, 6, 2, 1; 2015 CY_{22}, 2, 1, 0; 2015 DJ_{47}, 4, 1, 0; 2015 FX_{102}, 3, 1, 0; 2015 HT_{20}, 3, 1, 0; 2016 LO_{52}, 13, 4, 6; 2017 MR_{8}, 3, 1, 0; 2017 OL_{1}, 3, 1, 0; 2017 PR_{24}, 5, 1, 0; 2017 PU_{24}, 4, 1, 0; 2017 PK_{25}, 5, 1, 0; 2017 QE, 2, 1, 0; 2017 QR, 4, 1,

0; 2017 QS_{16}, 4, 1, 0; 2017 QB_{34} *, 4, 2, 2; 2017 RL, 9, 1, 0; 2017 RK_2, 2, 1, 0; 2017 RV_3, 3, 1, 0; 2017 RW_3, 7, 2, 9; 2017 SO_{15} *, 3, 1, 0; 2017 SP_{15} *, 4, 1, 0; (994), 4, 1, 0; (1553), 3, 1, 0; (1639), 7, 2, 4; (2075), 4, 1, 0; (2544), 3, 1, 0; (4716), 3, 1, 0; (4779), 3, 1, 0; (6774), 3, 1, 0; (8890), 8, 2, 1; (12845), 3, 1, 0; (13454), 7, 2, 1; (16191), 4, 1, 0; (17937), 5, 1, 0; (18688), 2, 1, 0; (21612), 3, 1, 0; (21771), 3, 1, 0; (26216), 6, 2, 31; (30398), 4, 1, 0; (31075), 4, 1, 0; (31126), 3, 1, 0; (32376), 3, 1, 0; (33163), 5, 1, 0; (33408), 4, 1, 0; (34382), 4, 1, 0; (34807), 5, 1, 0; (35781), 3, 1, 0; (36392), 6, 2, 8; (36804), 4, 1, 0; (37425), 4, 1, 0; (37473), 9, 3, 9; (40484), 5, 1, 0; (45750), 5, 1, 0; (46323), 6, 2, 8; (47640), 4, 1, 0; (49640), 4, 1, 0; (50242), 3, 1, 0; (50500), 3, 1, 0; (50575), 2, 1, 0; (50587), 2, 1, 0; (53180), 2, 1, 0; (54242), 5, 1, 0; (55329), 4, 1, 0; (56466), 5, 1, 0; (56885), 9, 1, 0; (57961), 4, 1, 0; (58369), 8, 2, 1; (58974), 10, 3, 9; (60419), 4, 1, 0; (61924), 6, 2, 7; (62861), 7, 2, 28; (66671), 3, 1, 0; (68906), 3, 1, 0; (69369), 3, 1, 0; (69444), 6, 2, 9; (70304), 4, 1, 0; (70928), 5, 1, 0; (72084), 6, 2, 4; (72121), 6, 2, 4; (73135), 10, 3, 11; (75397), 6, 2, 1; (75473), 4, 1, 0; (77752), 4, 1, 0; (81907), 3, 1, 0; (82674), 3, 1, 0; (83525), 5, 1, 0; (83829), 6, 2, 8; (85269), 3, 1, 0; (87242), 5, 1, 0; (93470), 3, 1, 0; (94416), 3, 1, 0; (97471), 3, 1, 0; (99544), 4, 1, 0; (99904), 3, 1, 0; (100473), 4, 1, 0; (100804), 3, 1, 0; (101367), 7, 2, 9; (101683), 4, 1, 0; (102241), 3, 1, 0; (102577), 3, 1, 0; (109851), 3, 1, 0; (110845), 7, 2, 2; (111030), 8, 2, 1; (112043), 3, 1, 0; (114030), 3, 1, 0; (120693), 3, 1, 0; (121257), 3, 1, 0; (121727), 7, 2, 2; (127237), 4, 1, 0; (129745), 3, 1, 0; (130444), 3, 1, 0; (130715), 3, 1, 0; (134513), 3, 1, 0; (135189), 5, 1, 0; (136634), 3, 1, 0; (138787), 3, 1, 0; (140820), 3, 1, 0; (140924), 2, 1, 0; (145324), 3, 1, 0; (148636), 3, 1, 0; (154804), 4, 1, 0; (156072), 3, 1, 0; (158369), 4, 1, 0; (161718), 4, 1, 0; (162411), 5, 2, 9; (165144), 4, 1, 0; (166682), 3, 1, 0; (168124), 6, 2, 1; (168774), 3, 1, 0; (169194), 4, 1, 0; (173062), 4, 1, 0; (173667), 3, 1, 0; (178048), 2, 1, 0; (178366), 3, 1, 0; (179483), 4, 1, 0; (183915), 3, 1, 0; (186481), 4, 1, 0; (196663), 5, 1, 0; (200005), 2, 1, 0; (204528), 6, 2, 1; (204920), 4, 1, 0; (207924), 7, 2, 1; (208489), 3, 1, 0; (209045), 7, 2, 4; (209536), 3, 1, 0; (211192), 3, 1, 0; (214699), 3, 1, 0; (216716), 7, 2, 2; (227763), 3, 1, 0; (227868), 3, 1, 0; (230247), 3, 1, 0; (230668), 6, 2, 9; (231813), 2, 1, 0; (233361), 3, 1, 0; (236116), 4, 1, 0; (236574), 7, 2, 1; (237075), 4, 1, 0; (241080), 3, 1, 0; (241908), 3, 1, 0; (244037), 4, 1, 0; (244702), 4, 1, 0; (244754), 3, 1, 0; (248010), 4, 1, 0; (248635), 3, 1, 0; (248645), 2, 1, 0; (252128), 3, 1, 0; (253702), 3, 1, 0; (254472), 6, 2, 1; (257228), 6, 2, 2; (258928), 4, 1, 0; (259257), 3, 1, 0; (266418), 3, 1, 0; (266699), 4, 1, 0; (272871), 2, 1, 0; (275009), 3, 1, 0; (275427), 5, 1, 0; (275700), 12, 4, 11; (276532), 3, 1, 0; (278823), 3, 1, 0; (283533), 2, 1, 0; (287461), 5, 1, 0; (288524), 3, 1, 0; (288585), 4, 1, 0; (288758), 6, 2, 7; (289379), 2, 1, 0; (292557), 3, 1, 0; (294437), 7, 2, 1; (295406), 2, 1, 0; (296197), 2, 1, 0; (318042), 1, 1, 0; (319542), 3, 1, 0; (321961), 5, 1, 0; (325209), 2, 1, 0; (327689), 7, 2, 1; (330255), 8, 2, 1; (331477), 3, 1, 0; (331951), 2, 1, 0; (332138), 6, 2, 8; (337484), 4, 1, 0; (342863), 5, 2, 2; (342938), 3, 1, 0; (343084), 5, 2, 1; (343656), 3, 1, 0; (344338), 5, 2, 14; (345631), 6, 2, 8; (350546), 4, 1, 0; (351984), 1, 1, 0; (366554), 3, 1, 0; (366687), 4, 1, 0; (368884), 3, 1, 0; (373414), 3, 1, 0; (373483), 4, 1, 0; (374534), 6, 2, 2; (376159), 4, 1, 0; (377679), 2, 1, 0; (379558), 4, 1, 0; (379750), 6, 2, 9; (381325), 2, 1, 0; (384017), 3, 1, 0; (384495), 4, 2, 9; (385424), 3, 1, 0; (386443), 4, 1, 0; (386991), 7, 2, 2; (387228), 3, 1, 0; (391994), 5, 2, 4; (414417), 7, 3, 3; (422341), 4, 1, 0; (422924), 3, 1, 0; (424031), 8, 2, 1; (428132), 3, 1, 0; (429419), 10, 3, 11; (430284), 5, 2, 8; (433188), 3, 1, 0; (436926), 3, 1, 0; (465207), 3, 1, 0; (465606), 6, 2, 2; (467636), 4, 1, 0; (488504), 4, 1, 0; (489244), 8, 3, 9; (491628), 5, 2, 8; *[1091, 260, 3*, 2016/09/01–2017/09/29]*

C97 Al-Fulaij Observatory, Oman

M. Al-Bussaidi, P.O. Box 392, Seeb Airport, P.C. - 111, Sultanate of Oman
[mbussaid@omantel.net.om]

0.61-m $f/7.8$ reflector + CCD

UCAC-4

2014 YC_{15}, 12, 2, 2; 2017 OF_7, 13, 1, 0; 2017 PJ_{26}, 6, 1, 0; 2017 RV_1, 6, 1, 0; (3), 2, 1, 0; (69), 2, 1, 0; (125), 2, 1, 0; (270), 2, 1, 0; (318), 4, 2, 23; (339), 2, 1, 0; (382), 2, 1, 0; (419), 2, 1, 0; (421), 2, 1, 0; (456), 2, 1, 0; (479), 2, 1, 0; (503), 2, 1, 0; (510), 8, 2, 3; (541), 2, 1, 0; (568), 4, 2, 15; (582), 2, 1, 0; (583), 2, 1, 0; (601), 2, 1, 0; (654), 2, 1, 0; (708), 2, 1, 0; (721), 2, 1, 0; (798), 4, 2, 7; (834), 2, 1, 0; (847), 2, 1, 0; (872), 2, 1, 0; (945), 2, 1, 0; (968), 4, 2, 23; (1019), 2, 1, 0; (1263), 2, 1, 0; (1379), 2, 1, 0; (1428), 2, 1, 0; (1535), 2, 1, 0; (1583), 1, 1, 0; (1585), 2, 1, 0; (1651), 2, 1, 0; (1652), 2, 1, 0; (1653), 2, 1, 0; (1714), 2, 1, 0; (1719), 2, 1, 0; (1764), 6, 1, 0; (1826), 2, 1, 0; (1843), 2, 1, 0; (1980), 5, 1, 0; (2012), 2, 1, 0; (2283), 2, 1, 0; (2440), 2, 1, 0; (2522), 2, 1, 0; (2860), 2, 1, 0; (2878), 2, 1, 0; (2889), 2, 1, 0; (3118), 2, 1, 0; (3122), 51, 5, 22; (3223), 2, 1, 0; (3288), 3, 1, 0; (3406), 2, 1, 0; (3625), 2, 1, 0; (3722), 2, 1, 0; (3830), 3, 1, 0; (3873), 2, 1, 0; (3895), 5, 1, 0; (3896), 2, 1, 0; (3902), 2, 1, 0; (3934), 2, 1, 0; (4074), 8, 1, 0; (4609), 4, 2, 15; (4988), 2, 1, 0; (5095), 2, 1, 0; (5140), 2, 1, 0; (5143), 4, 1, 0; (5227), 2, 1, 0; (5592), 2, 1, 0; (5676), 2, 1, 0; (5780), 2, 1, 0; (5798), 2, 1, 0; (5842), 2, 1, 0; (5851), 2, 1, 0; (5922), 2, 1, 0; (6053), 24, 3, 19; (6613), 2, 1, 0; (7145), 2, 1, 0; (7259), 2, 1, 0; (7336), 18, 3, 10; (10069), 2, 1, 0; (12106), 2, 1, 0; (12256), 2, 1, 0; (14839), 6, 1, 0; (14879), 2, 1, 0; (15555), 2, 1, 0; (16406), 2, 1, 0; (16592), 2, 1, 0; (19257), 2, 1, 0; (19618), 2, 1, 0; (19727), 2, 1, 0; (20471), 2, 1, 0; (25031), 8, 1, 0; (26471), 6, 1, 0; (27655), 2, 1, 0; (27767), 2, 1, 0; (28884), 2, 1, 0; (29848), 2, 1, 0; (31239), 2, 1, 0; (33363), 2, 1, 0; (35935), 2, 1, 0; (36304), 2, 1, 0; (37328), 5, 1, 0; (37715), 1, 1, 0; (40615), 2, 1, 0; (44864), 2, 1, 0; (55646), 2, 1, 0; (59072), 2, 1, 0; (61084), 2, 1, 0; (61207), 2, 1, 0; (64323), 2, 1, 0; (67895), 5, 1, 0; (68950), 18, 3, 29; (69011), 1, 1, 0; (69088), 2, 1, 0; (87113), 2, 1, 0; (90075), 21, 3, 19; (91488), 2, 1, 0; (102046), 5, 1, 0; (105127), 2, 1, 0; (111023), 2, 1, 0; (134340), 2, 1, 0; (135005), 1, 1, 0; (142040), 7, 1, 0; (142464), 6, 1, 0; (153415), 9, 2, 7; (161133), 1, 1, 0; (168780), 2, 1, 0; (190166), 15, 2, 16; (208332), 2, 1, 0; (215014), 1, 1, 0; (220909), 1, 1, 0; (242211), 4, 1, 0; (265962), 11, 2, 5; (282583), 1, 1, 0; (283212), 2, 1, 0; (304775), 2, 1, 0; (326388), 5, 1, 0; (441825), 9, 2, 8; (495848), 7, 1, 0; (496018), 13, 2, 10; *[562, 147, 0*, 2017/08/10–2017/09/28]*

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

2007 DJ_{58}, 4, 1, 0; 2011 DY_{52}, 4, 1, 0; 2013 TR_{159}, 4, 1, 0; 2013 VP_{14}, 5, 1, 0; 2014 DH_1, 4, 1, 0; 2014 OS_{344}, 3, 1, 0; 2014 VO_{37}, 4, 1, 0; 2014 WC_{429}, 4, 1, 0; 2015 XP_{385}, 4, 1, 0; 2016 HG_3, 7, 1, 0; 2017 NR_2, 3, 1, 0; 2017 QK_{32}, 4, 1, 0; (496570), 4, 1, 0; *[54, 13, 0*, 2012/09/19–2016/02/15]*

D03 Rantiga Osservatorio, Tincana

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

0.4-m $f/3.8$ reflector + CCD

UCAC-4

2000 SV_{43}, 3, 1, 0; 2000 SZ_{317}, 2, 1, 0; 2004 FM_{23}, 4, 1, 0; 2006 QL_{16}, 3, 1, 0; 2006 QD_{37}, 3, 1, 0; 2006 SB_{332}, 3, 1, 0; 2006 TC_{130}, 3, 1, 0; 2008 RC_{142}, 3, 1, 0; 2008 UH_{33}, 3, 1, 0; 2010 SJ_{34}, 3, 1, 0; 2012 TX_{15}, 3, 1, 0; 2012 TJ_{133}, 3, 1, 0; 2013 TC_{10}, 2, 1, 0; 2013 VP_{24} *, 3, 1, 0; 2014 KM_{28}, 3, 1, 0; 2014 WE_{429}, 4, 1, 0; 2015 BO_7, 3, 1, 0; 2015 BJ_{349}, 3, 1, 0; 2016 AR_{194}, 4, 1, 0; 2016 TR, 3, 1, 0; 2016 TK_{52}, 3, 1, 0; 2017 OL_{55}, 3, 1, 0; (1095), 3, 1, 0; (1535), 3, 1, 0; (1924), 3, 1, 0; (2380), 3, 1, 0; (2570), 6, 2, 1; (2860), 3, 1, 0; (3006), 3, 1, 0; (3668), 3, 1, 0; (3716), 3, 1, 0; (4416), 3, 1, 0; (4532), 2, 1, 0; (4693), 3, 1, 0; (5685), 3, 1, 0; (6766), 3, 1, 0; (7041), 3, 1, 0; (8464), 3, 1, 0; (9115), 3, 1, 0; (9258), 3, 1, 0; (9679), 3, 1, 0; (10846), 3, 1, 0; (11010), 3, 1, 0; (11416), 3, 1, 0; (11443), 3, 1, 0; (11698), 3, 1, 0; (11963), 3, 1, 0; (12293), 3, 1, 0; (12712), 3, 1, 0; (13658), 3, 1, 0; (13870), 3, 1, 0; (14184), 3, 1, 0; (14333), 3, 1, 0; (14628), 3, 1, 0; (15369), 3, 1, 0; (16237), 6, 1, 0; (16347), 3, 1, 0; (16406), 3, 1, 0; (16415), 3, 1, 0; (16828), 3, 1, 0; (17046), 3, 1, 0; (17885), 3, 1, 0; (17896), 3, 1, 0; (18603), 3, 1, 0; (19708), 3, 1, 0; (19857), 3, 1, 0; (20491), 3, 1, 0; (21531), 3, 1, 0; (21738), 3, 1, 0; (23750), 3, 1, 0; (23785), 3, 1, 0; (23794), 3, 1, 0; (24036), 6, 1, 0; (24173), 3, 1, 0; (25455), 3, 1, 0; (25805), 3, 1, 0; (26628), 3, 1, 0; (27205), 3, 1, 0; (28302), 3, 1, 0; (30617), 3, 1, 0; (30803), 3, 1, 0; (31796), 2, 1, 0; (31994), 3, 1, 0; (32311), 3, 1, 0; (33428), 3, 1, 0; (33992), 3, 1, 0; (34633), 2, 1, 0; (34739), 3, 1, 0; (34795), 3, 1, 0; (34903), 3, 1, 0; (35505), 3, 1, 0; (35958), 3, 1, 0; (36664), 3, 1, 0; (36793), 3, 1, 0; (40632), 3, 1, 0; (40990), 3, 1, 0; (41617), 3, 1, 0; (41779), 3, 1, 0; (42173), 2, 1, 0; (42967), 3, 1, 0; (43632), 3, 1, 0; (44490), 3, 1, 0; (45098), 3, 1, 0; (45178), 3, 1, 0; (45848), 3, 1, 0; (46537), 3, 1, 0; (47526), 3, 1, 0; (48499), 3, 1, 0; (49672), 3, 1, 0; (50157), 3, 1, 0; (50311), 3, 1, 0; (51858), 3, 1, 0; (51875), 3, 1, 0; (52114), 3, 1, 0; (56781), 3, 1, 0; (56782), 2, 1, 0; (56943), 3, 1, 0; (60994), 3, 1, 0; (61556), 3, 1, 0; (61567), 3, 1, 0; (61784), 6, 1, 0; (62988), 3, 1, 0; (63528), 3, 1, 0; (63670), 3, 1, 0; (65453), 6, 2, 1; (65505), 3, 1, 0; (65642), 3, 1, 0; (66358), 3, 1, 0; (67263), 3, 1, 0; (67470), 3, 1, 0; (67596), 3, 1, 0; (67844), 3, 1, 0; (68162), 3, 1, 0; (68369), 3, 1, 0; (69297), 3, 1, 0; (69576), 3, 1, 0; (70262), 3, 1, 0; (70594), 3, 1, 0; (71045), 3, 1, 0; (71916), 3, 1, 0; (74218), 3, 1, 0; (74889), 3, 1, 0; (74917), 3, 1, 0; (75010), 3, 1, 0; (76033), 3, 1, 0; (76436), 2, 1, 0; (76572), 3, 1, 0; (79476), 3, 1, 0; (79771), 3, 1, 0; (80711), 3, 1, 0; (82943), 3, 1, 0; (84158), 3, 1, 0; (84418), 3, 1, 0; (84821), 3, 1, 0; (87222), 3, 1, 0; (87299), 3, 1, 0; (87463), 3, 1, 0; (88320), 3, 1, 0; (89492), 3, 1, 0; (89932), 3, 1, 0; (91817), 3, 1, 0; (92537), 3, 1, 0; (93745), 3, 1, 0; (94380), 3, 1, 0; (95525), 3, 1, 0; (96780), 3, 1, 0; (97260), 3, 1, 0; (97979), 3, 1, 0; (99100), 3, 1, 0; (99281), 3, 1, 0; (99750), 3, 1, 0; (101452), 3, 1, 0; (102245), 3, 1, 0; (102656), 3, 1, 0; (103088), 3, 1, 0; (104997), 3, 1, 0; (107255), 3, 1, 0; (107382), 3, 1, 0; (107670), 3, 1, 0; (107693), 3, 1, 0; (109881), 3, 1, 0; (109948), 3, 1, 0; (110092), 3, 1, 0; (110522), 3, 1, 0; (112962), 3, 1, 0; (113553), 3, 1, 0; (114569), 3, 1, 0; (115341), 3, 1, 0; (116412), 3, 1, 0; (116538), 3, 1, 0; (118086), 3, 1, 0; (118668), 3, 1, 0; (118748), 3, 1, 0; (122231), 3, 1, 0; (123895), 3, 1, 0; (124535), 3, 1, 0; (124717), 3, 1, 0; (126043), 3, 1, 0; (126962), 3, 1, 0; (128820), 3, 1, 0; (132216), 3, 1, 0; (132439), 3, 1, 0; (133091), 3, 1, 0; (133215), 3, 1, 0; (134618), 3, 1, 0; (134695), 3, 1, 0; (135127), 3, 1, 0; (135218), 3, 1, 0; (135268), 3, 1, 0; (135310), 3, 1, 0; (137109), 3, 1, 0; (138696), 3, 1, 0; (139272), 3, 1, 0; (139582), 3, 1, 0; (140447), 3, 1, 0; (142124), 3, 1, 0; (143514), 3, 1, 0; (143598), 6, 2, 1; (143764), 6, 1, 0; (151055), 3, 1, 0; (155376), 3, 1, 0; (155725), 3, 1, 0; (159436), 3, 1, 0; (160206), 3, 1, 0; (161129), 3, 1, 0; (163439), 3, 1, 0; (164409), 3, 1, 0; (165206), 3, 1, 0; (166708), 6, 1, 0; (166820), 3, 1, 0; (166841), 3, 1, 0; (169242), 3, 1, 0; (169960), 3, 1, 0; (171999), 3, 1, 0; (174584), 3, 1, 0; (175459), 3, 1, 0; (176026), 3, 1, 0; (176736), 3, 1, 0; (177152), 3, 1, 0; (179614), 3, 1, 0; (179618), 3, 1, 0; (182123), 3, 1, 0; (182310), 3, 1, 0; (185033), 3, 1, 0; (186084), 3, 1, 0; (186112), 3, 1, 0; (186169), 3, 1, 0; (186433), 3, 1, 0; (186608), 3, 1, 0; (187393), 3, 1, 0; (187899), 3, 1, 0; (189464), 3, 1, 0;

(190043), 3, 1, 0; (190048), 3, 1, 0; (192086), 3, 1, 0; (196543), 2, 1, 0; (196677), 3, 1, 0; (198312), 3, 1, 0; (200010), 3, 1, 0; (208361), 3, 1, 0; (212516), 3, 1, 0; (215636), 3, 1, 0; (217101), 3, 1, 0; (219538), 3, 1, 0; (221285), 2, 1, 0; (221371), 3, 1, 0; (222252), 3, 1, 0; (230649), 3, 1, 0; (232617), 3, 1, 0; (233480), 3, 1, 0; (233484), 3, 1, 0; (243992), 2, 1, 0; (247677), 3, 1, 0; (251377), 3, 1, 0; (251862), 3, 1, 0; (254546), 3, 1, 0; (257237), 3, 1, 0; (261935), 3, 1, 0; (265348), 3, 1, 0; (268976), 3, 1, 0; (270301), 3, 1, 0; (271129), 3, 1, 0; (271642), 3, 1, 0; (271906), 2, 1, 0; (274304), 3, 1, 0; (275122), 3, 1, 0; (306825), 3, 1, 0; (324600), 3, 1, 0; (325021), 3, 1, 0; (330107), 3, 1, 0; (330722), 3, 1, 0; (340610), 3, 1, 0; (340658), 3, 1, 0; (361542), 3, 1, 0; (369391), 3, 1, 0; (371158), 3, 1, 0; (372491), 3, 1, 0; (372752), 3, 1, 0; (377387), 3, 1, 0; (380023), 3, 1, 0; (382769), 6, 1, 0; (383738), 3, 1, 0; (383782), 2, 1, 0; (423946), 3, 1, 0; (426697), 2, 1, 0; (467642), 3, 1, 0; (496653), 2, 1, 0; *[936, 307, 1∗, 2012/09/11–2017/08/24]*

D08 Ghezz Observatory, Leontica

I. Cervini, Via Fontanella 1, CH-6932 Breganzona, Switzerland
[ivaldo.cervini@astropix.it]

0.15-m $f/5$ Maksutov-Cassegrain + CCD
UCAC-4

(68950), 3, 1, 0; (108504), 3, 1, 0; (367525), 2, 1, 0; *[8, 3, 0∗, 2017/07/29–2017/09/07]*

D29 Purple Mountain Observatory, XuYi Station

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

1.04-m $f/1.8$ Schmidt + CCD
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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

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D95 Kurihara

T. Takahashi, Kurihara, Miyagi-ken, 989-5171 Japan `[pxi16412@nifty.com]`
0.25-m $f/4.2$ reflector + CCD
UCAC-4

(5062), 3, 1, 0; (5467), 6, 2, 7; (7513), 3, 1, 0; (8041), 6, 2, 7; (8143), 2, 1, 0; (8534), 3, 1, 0; (8739), 3, 1, 0; (9078), 3, 1, 0; (13698), 5, 2, 10; (14245), 3, 1, 0; (14874), 3, 1, 0; (15075), 3, 1, 0; (15100), 3, 1, 0; (15401), 3, 1, 0; (16231), 3, 1, 0; (16248), 3, 1, 0; (17099), 2, 1, 0; (17431), 2, 1, 0; (18132), 6, 2, 16; (18663), 3, 1, 0; (20531), 3, 1, 0; (21107), 3, 1, 0; (24102), 3, 1, 0; (27497), 3, 1, 0; (28606), 3, 1, 0; (29240), 3, 1, 0; (30598), 3, 1, 0; (33149), 3, 1, 0; (33284), 3, 1, 0; (33335), 3, 1, 0; (37233), 3, 1, 0; (47539), 3, 1, 0; (51057), 3, 1, 0; (52075), 3, 1, 0; (54400), 3, 1, 0; (56054), 3, 1, 0; (58083), 6, 2, 7; (69277), 3, 1, 0; (86840), 3, 1, 0; (190528), 3, 1, 0; (226221), 3, 1, 0; (457175), 3, 1, 0; *[137, 42, 0∗, 2016/11/07–2017/08/26]*

E10 Siding Spring-Faulkes Telescope South

T. Lister, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. `[tlister@lco.global]` (0)
L. Kurtze, no details supplied `[ft@sternwarte-weinheim.de]` (19)
Observers L. Belli, P. Breitenstein, M. Schmidt, T. Lister, C. Liefke, W. Cuppens
Measurers L. Belli, P. Breitenstein, M. Schmidt, T. Lister, A. Debackere, C. Liefke, W. Cuppens

1.0-m Ritchey-Chrétien + CCD, 2.0-m $f/10$ Ritchey-Chrétien + CCD
USNO-B1.0, PPMXL, Gaia-DR1

{19} 2013 TJ_{35}, 4, 2, 6; 2017 KR_{34}, 4, 1, 0; (113004), 2, 1, 0; (291994), 2, 1, 0; (426168), 2, 1, 0; *[14, 5, 0∗, 2017/06/29–2017/09/15]*

{0} 2012 TC_4, 16, 1, 0; *[16, 1, 0∗, 2012/10/09]*

E12 Siding Spring Survey

R. H. McNaught, Siding Spring Observatory, Coonabarabran, NSW 2357, Australia [rmn@mso.anu.edu.au]
Observers R. H. McNaught, G. J. Garradd

0.5-m Uppsala Schmidt + CCD
UCAC-2

1999 UT_{36}, 4, 1, 0; 2001 TN_{263}, 8, 2, 2279; 2002 CZ_{44}, 4, 1, 0; 2002 PB_{203}, 4, 1, 0; 2003 BX_{94}, 8, 1, 0; 2003 SA_{435}, 4, 1, 0; 2004 CM_{17}, 4, 1, 0; 2004 RL_{104}, 4, 1, 0; 2004 RQ_{251}, 3, 1, 0; 2005 EY_{225}, 7, 2, 30; 2005 UC_{180}, 4, 1, 0; 2007 AL_{15}, 4, 1, 0; 2007 RB_{172}, 4, 1, 0; 2007 RB_{297}, 4, 1, 0; 2007 RZ_{314}, 4, 1, 0; 2008 BR_{16}, 2, 1, 0; 2008 HD_{58}, 4, 1, 0; 2008 TZ_{82}, 3, 1, 0; 2008 UO_{123}, 4, 1, 0; 2009 HW_{108}, 4, 1, 0; 2009 SX_{45}, 4, 1, 0; 2009 WN_{261}, 4, 1, 0; 2010 AA_4, 4, 1, 0; 2010 CB_{216}, 4, 1, 0; 2010 LA_{109}, 4, 1, 0; 2010 TE_{19}, 4, 1, 0; 2011 EX_{31}, 4, 1, 0; 2011 JN_{16}, 4, 1, 0; 2011 QW, 4, 1, 0; 2011 SW_{89}, 4, 1, 0; 2012 AY_{10}, 4, 1, 0; 2012 BW_{96}, 4, 1, 0; 2012 EW_{16}, 4, 1, 0; 2012 EN_{18}, 4, 1, 0; 2012 SO_{10}, 4, 1, 0; 2012 TC_{254}, 8, 2, 6; 2012 TG_{320}, 4, 1, 0; 2012 UE_{134}, 8, 1, 0; 2012 YU_6, 3, 1, 0; 2013 HB_{21}, 3, 1, 0; 2013 HN_{37}, 3, 1, 0; 2013 RK_{86}, 4, 1, 0; 2013 TT_{55}, 4, 1, 0; 2013 YP_{150}, 4, 1, 0; 2014 BD_{60}, 4, 1, 0; 2014 EY_{48}, 4, 1, 0; 2014 SD_{206}, 4, 1, 0; 2014 SR_{217}, 4, 1, 0; 2014 TM_9, 4, 1, 0; 2014 TP_{36}, 4, 1, 0; 2014 UH_{28}, 2, 1, 0; 2014 UC_{54}, 8, 2, 37; 2014 UC_{87}, 8, 2, 13; 2014 UO_{201}, 8, 2, 15; 2014 VA_{38}, 2, 1, 0; 2014 WH_{229}, 4, 1, 0; 2014 WU_{366}, 4, 1, 0; 2014 WS_{389}, 4, 1, 0; 2014 WZ_{427}, 4, 1, 0; 2014 WC_{429}, 4, 1, 0; 2014 WP_{463}, 4, 1, 0; 2014 WO_{467}, 4, 1, 0; 2014 XW_{31}, 3, 1, 0; 2014 XE_{33}, 4, 1, 0; 2014 YK_{10}, 3, 1, 0; 2014 YQ_{20}, 7, 2, 1431; 2014 YA_{35}, 3, 1, 0; 2014 YH_{48}, 3, 1, 0; 2014 YY_{50}, 4, 1, 0; 2015 AZ_{151}, 3, 1, 0; 2015 AF_{250}, 7, 2, 31; 2015 BY_7, 5, 1, 0; 2015 BR_{64}, 2, 1, 0; 2015 BE_{121}, 7, 2, 19; 2015 BT_{133}, 4, 1, 0; 2015 BY_{207}, 4, 1, 0; 2015 BW_{222}, 4, 1, 0; 2015 BG_{274}, 4, 1, 0; 2015 BU_{377}, 4, 1, 0; 2015 BG_{430}, 3, 1, 0; 2015 BQ_{430}, 4, 1, 0; 2015 BL_{433}, 4, 1, 0; 2015 BE_{458}, 4, 1, 0; 2015 BD_{469}, 4, 1, 0; 2015 BO_{481}, 4, 1, 0; 2015 BK_{520}, 4, 1, 0; 2015 CC_{15}, 4, 1, 0; 2015 CX_{59}, 4, 1, 0; 2015 DO_{81}, 8, 2, 2188; 2015 DD_{97}, 4, 1, 0; 2015 DY_{99}, 11, 3, 1776; 2015 DP_{107}, 4, 1, 0; 2015 DL_{114}, 3, 1, 0; 2015 DC_{135}, 8, 2, 29; 2015 EV_6, 4, 1, 0; 2015 ES_{12}, 3, 1, 0; 2015 EH_{63}, 4, 1, 0; 2015 FM_{21}, 8, 2, 28; 2015 FL_{343}, 4, 1, 0; 2015 GS_{38}, 4, 1, 0; 2015 GS_{48}, 5, 1, 0; 2015 HC_{103}, 4, 1, 0; 2015 ST_{21}, 3, 1, 0; 2015 TW_{166}, 2, 1, 0; 2015 VH_{43}, 4, 1, 0; 2015 VB_{153}, 12, 3, 2889; 2015 XZ_{385}, 4, 1, 0; 2015 YA_4, 3, 1, 0; 2016 AD_3, 7, 2, 1799; 2016 AN_{36}, 7, 2, 35; 2016 AB_{59}, 4, 1, 0; 2016 AN_{122}, 8, 2, 24; 2016 AA_{192}, 3, 1, 0; 2016 AV_{198}, 3, 1, 0; 2016 BB, 4, 1, 0; 2016 BZ_5, 8, 2, 34; 2016 BL_{44}, 11, 3, 72; 2016 BF_{82}, 4, 1, 0; 2016 BL_{82}, 4, 1, 0; 2016 CG_{49}, 4, 1, 0; 2016 CQ_{70}, 4, 1, 0; 2016 CS_{119}, 4, 1, 0; 2016 CB_{123}, 11, 3, 27; 2016 CT_{245}, 4, 1, 0; 2016 DD_{23}, 4, 1, 0; 2016 EH_{200}, 15, 4, 2892; 2016 FH_4, 8, 2, 25; 2016 FB_7, 8, 2, 31; 2016 FV_{17}, 4, 1, 0; 2016 FD_{20}, 8, 2, 7; 2016 FW_{36}, 11, 2, 5; 2016 FM_{41}, 4, 1, 0; 2016 GO_{219}, 8, 2, 1482; 2016 GW_{225}, 8, 2, 27; 2016 HT, 4, 1, 0; 2016 HA_1, 3, 1, 0; 2016 JV_{38}, 6, 2, 32; 2016 OZ_1, 7, 2, 28; 2016 PZ_{79}, 3, 1, 0; 2016 TJ_{19}, 7, 2, 30; 2016 WM_2, 2, 1, 0; 2016 YB_{10}, 12, 2, 12; 2016 YD_{12}, 4, 1, 0; 2017 DT_{33}, 4, 1, 0; 2017 EP_1, 4, 1, 0; 2017 FA_{160}, 4, 1, 0; 2017 KL_5, 8, 2, 41; 2017 KM_{12}, 4, 1, 0; 2017 KF_{24}, 8, 2, 23; 2017 KP_{28}, 4, 1, 0; 2017 KM_{32}, 4, 1, 0; 2017 KD_{37}, 4, 1, 0; 2017 MF_9, 6, 2, 1860; 2017 NR_1, 4, 1, 0; 2017 NH_2, 4, 1, 0; 2017 NL_4, 8, 1, 0; 2017 NL_5, 2, 1, 0; 2017 OW, 5, 1, 0; 2017 OA_9, 4, 1, 0; 2017 OX_{10}, 4, 1, 0; 2017 OV_{25}, 8, 2, 26; 2017 OW_{39}, 4, 1, 0; 2017 OX_{46}, 4, 1, 0; 2017 OT_{49}, 4, 1, 0; 2017 OW_{51}, 4, 1, 0; 2017 OF_{52}, 8, 2, 27; 2017 OL_{55}, 3, 1, 0; 2017 OZ_{57}, 4, 1, 0; 2017 PP_{26}, 4, 1, 0; 2017 QX, 8, 2, 25; 2017 QJ_{10}, 12, 3, 53; 2017 QE_{33}, 3, 1, 0; 2017 SB_2, 4, 1, 0; 2017 SN_6, 4, 1, 0; (495955), 4, 1, 0; (496197), 4, 1, 0; (496492), 4, 1, 0; (496565), 3, 1, 0; (496587), 4, 1, 0; (496669), 4, 1, 0; *[870, 180, 0∗, 2004/03/16–2013/07/28]*

E23 Arcadia

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

0.35-m $f/1.9$ reflector + CCD
UCAC-4

2017 MR_4, 3, 1, 0; 2017 NS_5, 3, 1, 0; 2017 NT_5, 12, 1, 0; 2017 NN_6, 3, 1, 0; 2017 OC, 6, 1, 0; 2017 OD, 3, 1, 0; 2017 OA_1, 3, 1, 0; 2017 OG_1, 6, 1, 0; 2017 OJ_1, 3, 1, 0; 2017 OL_1, 6, 1, 0; 2017 OM_1, 6, 1, 0; 2017 ON_1, 3, 1, 0; 2017 OP_1, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OY_{19}, 3, 1, 0; 2017 PA, 3, 1, 0; 2017 PD_{25}, 5, 1, 0; 2017 PS_{25}, 6, 1, 0; 2017 PJ_{26}, 5, 1, 0; 2017 QM_{16}, 3, 1, 0; 2017 QN_{18}, 3, 1, 0; 2017 QR_{35}, 3, 1, 0; 2017 RU_1, 3, 1, 0; 2017 RG_2, 4, 1, 0; 2017 RS_2, 3, 1, 0; 2017 RU_2, 3, 1, 0; 2017 RV_2, 6, 1, 0; 2017 RY_{15}, 3, 1, 0; 2017 SB_2, 3, 1, 0; 2017 SC_2, 3, 1, 0; 2017 SE_2, 3, 1, 0; 2017 SM_2, 3, 1, 0; 2017 SN_2, 3, 1, 0; 2017 SD_{12}, 6, 1, 0; 2017 SP_{12}, 6, 2, 1; (1887), 3, 1, 0; (4275), 3, 1, 0; (6358), 3, 1, 0; (14442), 3, 1, 0; (18341), 3, 1, 0; (22159), 3, 1, 0; (22941), 3, 1, 0; (26966), 3, 1, 0; (27050), 3, 1, 0; (33319), 3, 1, 0; (39151), 2, 1, 0; (40424), 3, 1, 0; (64228), 2, 1, 0; (116181), 3, 1, 0; (129914), 3, 1, 0; (172544), 3, 1, 0; (188501), 3, 1, 0; (205065), 3, 1, 0; (223254), 3, 1, 0; (375270), 2, 1, 0; (496005), 6, 2, 1; *[209, 57, 0∗, 2017/07/11–2017/09/25]*

E94 Possum Observatory, Gisborne

J. Drummond, 23 Bilham Road, Patutahi, Gisborne, New Zealand [john_drummond@xtra.co.nz]

0.35-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4

2017 PJ_{26}, 5, 1, 0; (3895), 5, 1, 0; *[10, 2, 0∗, 2017/08/16–2017/09/16]*

F51 Pan-STARRS 1, Haleakala

A. Milani, Pan-STARRS Project, ISS Key Project, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822-1839, USA [milani@dm.unipi.it]
Observers J. Bulger, T. Goggia, T. Lowe, A. Schultz, M. Willman, B. Gibson, N. Primak
Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk, M. Micheli, M. T. Bannister, Y.-T. Chen, W. C. Fraser, M. Holman, N. Induni, A. Krolewski, P. Lacerda, M. Lackner, H.-W. Lin, Z. Mark, D. Murray, A. Parker, M. Payne, P. Protopapas, K. Smith, T. Grav, R. Jedicke, N. Kaiser, P. Veres

1.8-m Ritchey-Chrétien + CCD
2MASS, Gaia-DR1, Gaia-DR1

1989 UP, 18, 4, 29; 1992 SW, 4, 1, 0; 1993 RA, 7, 2, 24; 1994 XE, 11, 3, 28; 1995 FM_{15}, 4, 1, 0; 1995 OA_3, 3, 1, 0; 1995 OW_{11}, 14, 4, 60; 1995 OC_{13}, 21, 6, 1545; 1995 QZ_{14}, 3, 1, 0; 1995 SL_{22}, 6, 2, 2; 1995 SY_{25}, 11, 3, 51; 1995 SQ_{55}, 7, 1, 0; 1995 SX_{60}, 12, 2, 4; 1995 SR_{65}, 19, 5, 44; 1995 SE_{72}, 4, 1, 0; 1995 SO_{78}, 15, 3, 24; 1995 SX_{86}, 3, 1, 0; 1995 TD_5, 11, 3, 53; 1995 UT_{53}, 4, 1, 0; 1995 UP_{59}, 12, 3, 1393; 1995 UK_{77}, 7, 2, 4; 1995 UM_{81}, 6, 2, 32; 1995 VT_6, 16, 4, 42; 1995 WP_{21}, 8, 1, 0; 1996 AM_6, 6, 1, 0; 1996 SO_5, 21, 6, 578; 1996 TQ_6, 3, 1, 0; 1996 TK_{27}, 3, 1, 0; 1996 VG_{26}, 4, 1, 0; 1996 VR_{35}, 4, 1, 0; 1996 VE_{42}, 12, 3, 932; 1997 CU_{20}, 14, 4, 14; 1997 GR_1, 7, 2, 4; 1997 SJ_9, 7, 2, 47; 1997 UE_{17}, 4, 1, 0; 1997 WY_3, 4, 1, 0; 1998 BV_5, 12, 3, 531; 1998 OL_2, 4, 1, 0; 1998 QO_{52}, 18, 5, 2394; 1998 SB_{15}, 3, 1, 0; 1998 SS_{40}, 17, 5, 53; 1998 SR_{51}, 43, 11, 643; 1998 TM_1, 28, 7, 1107; 1998 VH_{57}, 25, 7, 1178; 1998 WR_{30}, 21, 6, 56; 1998 WL_{36}, 4, 1, 0; 1998 YX_{31}, 3, 1, 0; 1999 AF_4, 7, 2, 17; 1999 BG_{31}, 3, 1, 0; 1999 CV_7, 7, 2, 39; 1999 ET_2, 35, 10, 1199; 1999 RB_{30}, 7, 2, 2; 1999 RA_{176}, 3, 1, 0; 1999 RH_{243}, 2, 1, 0; 1999 SL_{13}, 4, 1, 0; 1999 TJ_{12}, 8, 3, 958; 1999 TE_{21}, 18, 5, 36; 1999 TD_{45}, 18, 4, 24; 1999 TH_{66}, 16, 4, 51; 1999 TF_{71}, 4, 1, 0; 1999 TH_{78}, 6, 2, 10; 1999 TD_{84}, 12, 3, 57; 1999 TS_{209}, 11, 2, 43; 1999 TZ_{226}, 15, 4, 54; 1999 TM_{294}, 11, 3, 24; 1999 TS_{312}, 15, 4, 44; 1999 TN_{319}, 11, 3, 26; 1999 UK_{12}, 7, 2, 4; 1999 UX_{31}, 8, 2, 12; 1999 UT_{36}, 11, 4, 601; 1999 VD_{41}, 21, 6, 40; 1999 VG_{41}, 4, 1, 0; 1999 VL_{42}, 18, 5, 43; 1999 VE_{76}, 10, 3, 478; 1999 VH_{83}, 8, 2, 7; 1999 VY_{84}, 8, 2, 7; 1999 VD_{116}, 7, 2, 47; 1999 VG_{128}, 10, 3, 54; 1999 VQ_{131}, 11, 2, 4; 1999 VH_{136}, 25, 7, 677; 1999 VU_{209}, 10, 3, 17; 1999 WK_5, 7, 1, 0; 1999 WB_{18}, 14, 4, 49; 1999 XL_{136}, 3, 1, 0; 2000 AK_{42}, 15, 4, 701; 2000 AM_{211}, 3, 1, 0; 2000 AK_{258}, 30, 8, 1593; 2000 BK_{42}, 14, 4, 60; 2000 CL_{59}, 4, 1, 0; 2000 CW_{108}, 21, 5, 53; 2000 CT_{150}, 18, 6, 825; 2000 DP_{66}, 3, 1, 0; 2000 DQ_{110}, 3, 1, 0; 2000 EV_{53}, 4, 1, 0; 2000 GW_{23}, 4, 1, 0; 2000 JD_2, 9, 3, 21; 2000 JO_5, 8, 2, 4; 2000 JY_{64}, 4, 1, 0; 2000 KC, 3, 1, 0; 2000 LM_{22}, 15, 4, 29; 2000 QU_7, 7, 2, 13; 2000 QB_{56}, 15, 4, 972; 2000 QW_{225}, 3, 1, 0; 2000 QE_{227}, 11, 2, 9; 2000 RP_{52}, 4, 1, 0; 2000 RB_{108}, 16, 4, 2019; 2000 SH_5, 27, 7, 64; 2000 SJ_9, 7, 2, 25; 2000 SG_{21}, 4, 1, 0; 2000 SN_{21}, 4, 1, 0; 2000 SW_{26}, 2, 1, 0; 2000 SV_{43}, 18, 4, 16; 2000 SD_{77}, 39, 11, 1501; 2000 SR_{100}, 3, 1, 0; 2000 SS_{113}, 6, 2, 1; 2000 SX_{131}, 3, 1, 0; 2000 SQ_{164}, 8, 1, 0; 2000 SV_{180}, 18, 5, 28; 2000 SN_{214}, 8, 2, 51; 2000 SJ_{229}, 6, 2, 15; 2000 SH_{233}, 11, 3, 23; 2000 SP_{242}, 6, 2, 53; 2000 SZ_{243}, 4, 1, 0; 2000 SH_{272}, 3, 1, 0; 2000 SZ_{317}, 7, 2, 28; 2000 SR_{344}, 4, 1, 0; 2000 SH_{362}, 8, 1, 0; 2000 SF_{369}, 3, 1, 0; 2000 SC_{377}, 22, 7, 1229; 2000 TW_{32}, 7, 2, 4; 2000 TA_{45}, 17, 5, 60; 2000 TK_{50}, 4, 1, 0; 2000 UJ_3, 4, 1, 0; 2000 UN_3, 4, 1, 0; 2000 UN_{15}, 4, 1, 0; 2000 UD_{16}, 3, 1, 0; 2000 UT_{32}, 11, 3, 29; 2000 UF_{44}, 8, 2, 1; 2000 UE_{67}, 4, 1, 0; 2000 UE_{73}, 3, 1, 0; 2000 VR_{23}, 4, 1, 0; 2000 WL_{63}, 2, 1, 0; 2000 WB_{105}, 4, 1, 0; 2000 WK_{159}, 4, 1, 0; 2000 WO_{198}, 11, 3, 91; 2000 WP_{198}, 22, 5, 171; 2000 XZ_{10}, 8, 2, 9; 2000 XQ_{15}, 4, 1, 0; 2000 XG_{24}, 19, 3, 29; 2000 YQ_{16}, 8, 3, 542; 2000 YG_{29}, 8, 2, 12; 2000 YF_{31}, 14, 4, 45; 2001 AO_{19}, 3, 1, 0; 2001 AW_{19}, 3, 1, 0; 2001 AF_{47}, 8, 2, 1; 2001 AT_{47}, 19, 5, 76; 2001 BZ_2, 4, 1, 0; 2001 BZ_{15}, 8, 2, 31; 2001 BO_{37}, 8, 2, 1; 2001 DU_7, 7, 2, 8; 2001 FX_6, 7, 2, 8; 2001 FC_{50}, 4, 1, 0; 2001 FH_{91}, 6, 2, 21; 2001 FL_{199}, 6, 2, 496; 2001 FF_{201}, 3, 1, 0; 2001 FG_{204}, 9, 3, 24; 2001 FT_{208}, 10, 3, 568; 2001 FG_{209}, 3, 1, 0; 2001 FH_{220}, 6, 2, 20; 2001 FR_{230}, 4, 1, 0; 2001 HE_{27}, 3, 1, 0; 2001 NJ_6, 3, 1, 0; 2001 OU_{36}, 4, 1,

0; 2001 OB_{74}, 4, 1, 0; 2001 OM_{91}, 4, 1, 0; 2001 PS_4, 10, 3, 41; 2001 PK_5, 3, 1, 0; 2001 PE_{19}, 7, 2, 17; 2001 PO_{55}, 3, 1, 0; 2001 QE_{34}, 4, 1, 0; 2001 QM_{71}, 4, 1, 0; 2001 QL_{92}, 8, 2, 27; 2001 QR_{108}, 17, 5, 59; 2001 QB_{143}, 6, 2, 31; 2001 QJ_{144}, 20, 5, 14; 2001 QU_{151}, 7, 2, 37; 2001 QN_{186}, 24, 4, 26; 2001 QK_{187}, 14, 4, 57; 2001 QO_{204}, 4, 1, 0; 2001 QT_{210}, 7, 2, 28; 2001 QQ_{229}, 3, 1, 0; 2001 QC_{237}, 4, 1, 0; 2001 QY_{282}, 10, 2, 2; 2001 QR_{286}, 4, 1, 0; 2001 QG_{288}, 4, 1, 0; 2001 RK_2, 2, 1, 0; 2001 RZ_4, 4, 1, 0; 2001 RH_{99}, 3, 1, 0; 2001 RR_{111}, 14, 4, 27; 2001 RW_{119}, 22, 6, 53; 2001 RK_{139}, 8, 2, 12; 2001 RD_{140}, 4, 1, 0; 2001 SE_{73}, 17, 5, 28; 2001 SR_{87}, 21, 6, 57; 2001 SJ_{97}, 11, 3, 52; 2001 SO_{115}, 4, 1, 0; 2001 SG_{132}, 9, 3, 28; 2001 SK_{166}, 10, 3, 12; 2001 SU_{166}, 11, 3, 1847; 2001 SK_{168}, 4, 1, 0; 2001 ST_{188}, 3, 1, 0; 2001 SO_{203}, 3, 1, 0; 2001 SH_{208}, 8, 2, 52; 2001 SF_{209}, 14, 4, 41; 2001 SN_{210}, 18, 5, 61; 2001 SH_{222}, 30, 8, 39; 2001 SV_{229}, 8, 2, 8; 2001 SM_{243}, 7, 2, 1; 2001 SA_{269}, 4, 1, 0; 2001 SX_{288}, 6, 2, 51; 2001 SH_{290}, 4, 1, 0; 2001 SK_{292}, 2, 1, 0; 2001 SM_{300}, 4, 1, 0; 2001 SC_{304}, 6, 2, 1; 2001 SZ_{307}, 4, 1, 0; 2001 SB_{309}, 3, 1, 0; 2001 SQ_{322}, 4, 1, 0; 2001 SD_{336}, 6, 2, 1; 2001 SN_{336}, 22, 6, 71; 2001 SF_{344}, 16, 4, 61; 2001 SF_{354}, 8, 3, 4; 2001 SP_{354}, 7, 2, 2; 2001 SW_{354}, 4, 1, 0; 2001 SH_{355}, 3, 1, 0; 2001 SM_{355}, 22, 6, 38; 2001 SW_{355}, 23, 6, 47; 2001 SW_{356}, 33, 9, 2003; 2001 TV_2, 12, 2, 4; 2001 TV_{55}, 4, 1, 0; 2001 TO_{89}, 15, 3, 47; 2001 TM_{103}, 6, 2, 49; 2001 TK_{108}, 4, 1, 0; 2001 TL_{124}, 4, 1, 0; 2001 TA_{129}, 7, 1, 0; 2001 TL_{138}, 3, 1, 0; 2001 TD_{143}, 7, 2, 52; 2001 TP_{147}, 12, 2, 17; 2001 TX_{152}, 4, 1, 0; 2001 TT_{157}, 24, 6, 55; 2001 TJ_{160}, 8, 2, 10; 2001 TL_{205}, 5, 2, 17; 2001 TP_{207}, 26, 7, 39; 2001 TE_{213}, 4, 1, 0; 2001 TL_{236}, 4, 1, 0; 2001 TW_{244}, 4, 1, 0; 2001 TB_{248}, 7, 2, 4; 2001 TY_{253}, 7, 2, 52; 2001 TY_{254}, 4, 1, 0; 2001 TO_{255}, 15, 4, 12; 2001 TA_{259}, 3, 1, 0; 2001 TK_{259}, 7, 2, 12; 2001 TQ_{259}, 3, 1, 0; 2001 TS_{260}, 7, 2, 56; 2001 TA_{261}, 8, 2, 4; 2001 TW_{261}, 8, 2, 8; 2001 TB_{262}, 8, 2, 36; 2001 TL_{262}, 8, 2, 2; 2001 TR_{262}, 16, 4, 79; 2001 TD_{263}, 32, 9, 657; 2001 TN_{263}, 15, 4, 1646; 2001 TS_{263}, 20, 6, 1243; 2001 UR_{25}, 3, 1, 0; 2001 UX_{38}, 4, 1, 0; 2001 UW_{57}, 2, 1, 0; 2001 UN_{67}, 29, 7, 1237; 2001 UE_{86}, 7, 2, 52; 2001 UK_{91}, 7, 2, 14; 2001 UO_{103}, 11, 3, 35; 2001 UP_{112}, 7, 2, 25; 2001 UO_{129}, 10, 3, 41; 2001 UP_{147}, 8, 2, 39; 2001 UK_{148}, 12, 3, 35; 2001 UY_{156}, 4, 1, 0; 2001 UQ_{163}, 7, 2, 9; 2001 UG_{166}, 8, 2, 33; 2001 UG_{177}, 10, 3, 51; 2001 UM_{186}, 13, 4, 63; 2001 UQ_{191}, 7, 2, 44; 2001 US_{193}, 3, 1, 0; 2001 UL_{194}, 4, 1, 0; 2001 UM_{194}, 8, 2, 29; 2001 UW_{197}, 11, 3, 19; 2001 UV_{199}, 11, 3, 29; 2001 UU_{200}, 14, 4, 56; 2001 UF_{203}, 4, 1, 0; 2001 UJ_{219}, 3, 1, 0; 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A. Milani, Pan-STARRS Project, ISS Key Project, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822-1839, USA [milani@dm.unipi.it]

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

2004 BZ_{163}, 4, 1, 0; 2005 NV_{16}, 3, 1, 0; 2005 TU_{123}, 4, 1, 0; 2005 YO_{270}, 3, 1, 0; 2006 AY_{51}, 4, 1, 0; 2007 GM_{41}, 4, 1, 0; 2008 TL_3, 3, 1, 0; 2008 WA_{17}, 7, 2, 26; 2010 JK_{88}, 4, 1, 0; 2010 SW_{10}, 4, 1, 0; 2010 XP_{91}, 3, 1, 0; 2012 BP_{46}, 3, 1, 0; 2012 ES_{18}, 3, 1, 0; 2012 HL_{50}, 3, 1, 0; 2013 CC_{61}, 4, 1, 0; 2013 UY_1, 7, 2, 5; 2014 EX_{41}, 3, 1, 0; 2015 DM_{209}, 3, 1, 0; 2015 DB_{217}, 4, 1, 0; 2015 DM_{225}, 3, 1, 0; 2015 DP_{225}, 6, 2, 16; 2015 FK_{41}, 2, 1, 0; 2015 FZ_{44}, 4, 1, 0; 2015 FL_{110}, 3, 1, 0; 2015 FH_{298}, 3, 1, 0; 2015 FY_{392}, 6, 2, 22; 2015 FK_{393}, 4, 1, 0; 2015 FD_{394}, 4, 1, 0; 2015 FE_{394}, 3, 1, 0; 2015 GW_2, 3, 1, 0; 2015 HF_{14}, 3, 1, 0; 2015 HG_{95}, 4, 1, 0; 2015 HY_{179}, 4, 1, 0; 2015 HR_{183}, 4, 1, 0; 2015 HZ_{183}, 3, 1, 0; 2015 JK_{11}, 4, 1, 0; 2015 JT_{11}, 3, 1, 0; 2015 JC_{12}, 4, 1, 0; 2015 KY_{22}, 4, 1, 0; 2015 KF_{136}, 3, 1, 0; 2015 KM_{163}, 4, 1, 0; 2015 KN_{163}, 3, 1, 0; 2015 KQ_{163}, 3, 1, 0; 2015 KC_{164}, 4, 1, 0; 2015 KG_{164}, 6, 2, 11; 2015 KO_{164}, 3, 1, 0; 2015 LV_{40}, 3, 1, 0; 2015 MF_{131}, 4, 1, 0; 2015 MG_{131}, 3, 1, 0; 2015 MH_{131} *, 3, 1, 0; 2015 MK_{131} *, 3, 1, 0; 2015 MY_{131} *, 3, 1, 0; 2015 OY_{79} *, 4, 1, 0; 2015 OZ_{79}, 3, 1, 0; 2015 OB_{80}, 4, 1, 0; 2015 OV_{80} *, 3, 1, 0; 2015 OW_{80}, 3, 1, 0; 2015 OX_{80} *, 4, 1, 0; 2015 OC_{81} *, 4, 1, 0; 2015 OD_{81}, 8, 1, 0; 2015 PR_{35}, 4, 1, 0; 2015 RE_{12}, 4, 1, 0; 2015 TF_{260}, 3, 1, 0; 2016 PE_{37}, 3, 1, 0; 2016 PC_{68}, 3, 1, 0; 2016 TG_{30}, 4, 1, 0; 2016 TC_{95}, 3, 1, 0; 2016 VC_6, 4, 1, 0; 2016 WT_{56}, 3, 1, 0; 2016 YD_{12}, 4, 1, 0; 2017 AO_{21}, 3, 1, 0; 2017 DK_{35}, 4, 1, 0; 2017 FX_1, 4, 1, 0; 2017 FF_{64}, 6, 2, 13; (496752), 3, 1, 0; *[280, 75, 7*, 2015/04/07–2015/08/10]*

F65 Haleakala-Faulkes Telescope North

L. Kurtze, Technische Universität Darmstadt, Fachgebiet Mechatronik & Maschinenakustik, AG Maschinenakustik, Magdalenenstrasse 4, 64289 Darmstadt, Germany [kurtze@mum.tu-darmstadt.de] (2)

E. Guido, via Paride del Pozzo 12, I-80053 Castellammare di Stabia, Italy (13)

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global] (14)

Observers L. Belli, P. Breitenstein, T. Lister, W. Cuppens, C. Liefke

2.0-m Ritchey-Chrétien + CCD, 2.0-m $f/10$ Ritchey-Chrétien + CCD, 0.4-m reflector + CCD
PPMXL, Gaia-DR1, URAT-1
{13} 2011 ON_{60} *, 6, 2, 1; *[6, 1, 1*, 2011/07/24–2011/07/25]*

{14} 2012 TC_4, 31, 2, 1; *[31, 1, 0*, 2012/10/09–2012/10/10]*

{2} 2017 OC, 3, 1, 0; 2017 QO_{33}, 3, 1, 0; 2017 SH_{13}, 3, 1, 0; *[9, 3, 0*, 2017/07/19–2017/09/25]*

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
2014 YJ_{41}, 3, 1, 0; 2015 DJ_{225}, 3, 1, 0; 2015 FL_{158}, 7, 2, 1; *[13, 3, 0*, 2012/11/12–2013/09/14]*

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
Gaia-DR1
2014 YC_{15}, 3, 1, 0; 2017 MB_1, 4, 1, 0; 2017 MC_4, 5, 1, 0; 2017 NH, 10, 2, 1; 2017 NM_6, 3, 1, 0; 2017 OD, 4, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OP_{68}, 4, 1, 0; 2017 PT_{25}, 7, 1, 0; 2017 PJ_{26}, 6, 1, 0; 2017 PL_{26}, 5, 1, 0; 2017 RV_1, 9, 2, 17; 2017 RX_1, 5, 1, 0; 2017 RV_2, 7, 1, 0; 2017 SD_{12}, 4, 1, 0; (506), 3, 1, 0; (1109), 3, 1, 0; (3122), 4, 1, 0; (6053), 5, 1, 0; (14218), 4, 1, 0; (68950), 7, 1, 0; (90075), 6, 1, 0; (138925), 4, 1, 0; (142561), 5, 1, 0; (190166), 5, 1, 0; (265962), 3, 1, 0; (422699), 12, 2, 15; (496018), 10, 2, 26; *[150, 28, 0*, 2017/07/08–2017/09/29]*

G36 Calar Alto-CASADO
S. Hellmich, Institute of Planetary Research, Rutherfordstraße 2, D-12489 Berlin, Germany [stephan.hellmich@dlr.de]
Observers S. Mottola, S. Hellmich
1.23-m $f/8$ reflector + CCD
PPMXL
2007 VE_{234}, 6, 2, 1; 2011 ES_{18}, 3, 1, 0; 2011 FU_{67}, 6, 1, 0; 2012 JO_{60}, 9, 3, 4; 2013 SA_{87}, 6, 2, 1; 2014 DP_{144}, 4, 1, 0; 2015 AR_{281}, 12, 2, 1; 2015 BO_7, 5, 1, 0; 2015 BF_{175}, 15, 1, 0; 2015 BO_{206}, 14, 4, 5; 2015 BC_{521}, 7, 1, 0; 2015 CN_{56}, 5, 1, 0; 2016 EJ_{204}, 9, 2, 1; 2016 GO_5, 3, 1, 0; 2016 JN_{33}, 4, 1, 0; 2016 JA_{39}, 11, 1, 0; 2016 QJ_{11}, 20, 1, 0; 2016 SV_{46}, 7, 1, 0; 2016 YR_{10}, 9, 1, 0; 2017 MH_1, 5, 1, 0; (3709), 8, 3, 2; (3793), 21, 7, 24; (4068), 21, 7, 28; (4833), 17, 6, 24; (5264), 18, 6, 31; (9431), 23, 8, 24; (11351), 30, 10, 30; (11395), 21, 7, 8; (11397), 17, 6, 7; (15398), 18, 6, 27; (15440), 35, 13, 31; (15539), 14, 5, 4; (21595), 31, 11, 31; (22415), 3, 1, 0; (27193), 3, 1, 0; (39571), 2, 1, 0; (42927), 3, 1, 0; (48685), 5, 2, 1; (52748), 8, 3, 2; (56071), 3, 1, 0; (87240), 6, 2, 1; (92843), 3, 1, 0; (99252), 3, 1, 0; (108857), 5, 2, 1; (113254), 9, 3, 2; (117608), 6, 2, 1; (117636), 3, 2, 1; (122356), 6, 2, 3; (168283), 6, 2, 1; (171866), 3, 1, 0; (179207), 3, 1, 0; (233981), 6, 2, 3; (244010), 8, 3, 2; (247061), 3, 1, 0; (247782), 3, 1, 0; (256401), 3, 1, 0; (259137), 3, 1, 0; (275784), 5, 2, 2; (276317), 3, 1, 0; (325135), 6, 2, 1; (325240), 6, 2, 1; (333395), 2, 1, 0; (333674), 6, 2, 5; (336466), 2, 1, 0; (464852), 3, 1, 0; (492184), 6, 2, 1; *[579, 66, 0*, 2011/08/06–2017/07/27]*

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 A. Thirouin, J. Sanborn, L. H. Wasserman
4.3-m Discovery Channel Telescope + CCD
USNO-B1.0
1996 TK_{66}, 3, 1, 0; 1998 HQ_{151}, 3, 1, 0; 1999 RG_{215}, 2, 1, 0; 2000 KL_4, 2, 1, 0; 2001 RX_{143}, 3, 1, 0; 2002 PP_{149}, 3, 1, 0; 2002 WL_{32}, 2, 1, 0; 2003 QO_{91}, 2, 1, 0; 2004 MW_8, 2, 1, 0; 2004 OP_{15}, 2, 1, 0; 2004 PX_{107}, 2, 1, 0; 2007 VJ_{302}, 3, 1, 0; 2008 ST_{291}, 2, 1, 0; 2010 TF_{42}, 2, 1, 0; 2011 OA_{60}, 2, 1, 0; 2011 UD_{63}, 2, 1, 0; 2012 PD_{26}, 2, 1, 0; 2012 TF_{324}, 2, 1, 0; 2012 UL_{177}, 2, 1, 0; 2013 MW_9, 2, 1, 0; 2013 UO_{15}, 2, 1, 0; 2014 JJ_{80}, 3, 1, 0; 2014 LN_{28}, 4, 1, 0; 2014 NY_{65}, 2, 1, 0; 2014 OH_{394}, 2, 1, 0; 2014 OL_{394}, 3, 1, 0; 2014 OM_{394}, 3, 1, 0; 2014 QV_{441}, 2, 1, 0; 2014 UC_{225}, 2, 1, 0; 2015 BL_{174}, 2, 1, 0; 2016 FJ_7, 3, 1, 0; 2017 OV_{36}, 2, 1, 0; 2017 QG_{18}, 13, 1, 0; (10631), 2, 1, 0; (28990), 2, 1, 0; (52732), 2, 1, 0; (144916), 2, 1, 0; (153948), 2, 1, 0; (168014), 2, 1, 0; (169492), 3, 1, 0; (184212), 3, 1, 0; (202009), 3, 1, 0; (217955), 2, 1, 0; (251815), 2, 1, 0; (256711), 2, 1, 0; (260196), 2, 1, 0; (262002), 2, 1, 0; (277559), 3, 1, 0; (307261), 3, 1, 0; (315304), 2, 1, 0; (322731), 2, 1, 0; (338201), 3, 1, 0; (359966), 2, 1, 0; (367735), 2, 1, 0; (378704), 2, 1, 0; (382284), 2, 1, 0; (389253), 2, 1, 0; (420788), 3, 1, 0; (422311), 2, 1, 0; (424110), 2, 1, 0; (425678), 2, 1, 0; (431207), 3, 1, 0; (459825), 2, 1, 0; (469909), 2, 1, 0; *[158, 64, 0*, 2013/03/13–2017/09/23]*

G39 ROAD, San Pedro de Atacama
F.-J. Hambsch, Oude Bleken 12, 2400 Mol, Belgium [hambsch@telenet.be]
Observers F.-J. Hambsch, E. Bryssinck
0.4-m $f/6.8$ astrograph + CCD
UCAC-4, CMC-15, CMC
(995), 13, 4, 3; *[13, 1, 0*, 2017/07/03–2017/07/06]*

G40 Slooh.com Canary Islands Observatory
N. Paul, Tangra Housing Estate, Bl-N/1, Fl-11, Kol-700015, West Bengal, India [nirmalpaul2005@gmail.com] (2)
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)
J. L. Tuten, P.O. Box 986, Clinton, AR 72031, U.S.A. [kep186f@unseen.is] (12)
W. F. Cashwell, 65 Apricot Ridge Ave., Las Vegas, NV 89183, U.S.A. [wfcashwell@gmail.com] (16)
Observers G. Gašparović, Y. Chen, B. Lütkenhöner, A. J. Evans, J. L. Tuten, M. Kumrucu-Lohmiller, W. F. Cashwell, G. Gasp aovic, C. Feliciano, N. Paul, K. D. Breedlove
Measurers G. Gašparović, Y. Chen, G. Y. Gasparovic, B. Lütkenhöner, A. J. Evans, M. Kumrucu-Lohmiller, W. F. Cashwell, G. Gasp aovic, J. L. Tuten, N. Paul, K. D. Breedlove
0.43-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.5-m $f/6.8$ Corrected Dall-Kirkham + CCD, 0.09-m $f/7.0$ refractor + CCD, 0.36-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1, PPMXL, Gaia-DR1
{10} 1998 SZ_{27}, 2, 1, 0; 2003 QW_{30}, 3, 1, 0; 2017 FJ_{90}, 3, 1, 0; 2017 LU, 4, 2, 1; 2017 LO_1, 4, 2, 8; 2017 NL_6, 4, 2, 1; 2017 OF_7, 5, 2, 1; 2017 OT_{18}, 6, 2, 1; 2017 QV_{34}, 3, 1, 0; (9986), 3, 1, 0; (60298), 4, 1, 0; (131429), 3, 1, 0; (150779), 3, 1, 0; (190208), 5, 1, 0; (481394), 6, 2, 1; *[58, 15, 0*, 2017/07/23–2017/09/20]*

{11} 2007 CU_{43}, 8, 3, 3; 2008 UF_{314}, 3, 1, 0; 2016 SO_{26}, 3, 1, 0; 2016 SS_{26}, 2, 1, 0; 2017 MQ_2, 5, 2, 1; 2017 OR_{48} *, 6, 2, 1; 2017 OS_{48} *, 6, 2, 1; 2017 OT_{48} *, 6, 2, 1; 2017 OE_{54} *, 7, 3, 2; 2017 QB_9, 3, 1, 0; 2017 SA_{16} *, 6, 2, 1; (465), 3, 1, 0; (1854), 3, 1, 0; (2397), 3, 1, 0; (3122), 6, 1, 0; (6656), 2, 1, 0; (8139), 3, 1, 0; (8618), 4, 2, 1; (8929), 6, 2, 5; (9110), 3, 1, 0; (10413), 4, 1, 0; (12491), 2, 1, 0; (22156), 6, 1, 0; (22669), 3, 1, 0; (24744), 2, 1, 0; (27063), 3, 1, 0; (27088), 4, 1, 0; (30875), 3, 1, 0; (33823), 3, 1, 0; (35232), 3, 1, 0; (35360), 2, 1, 0; (42899), 3, 1, 0; (45287), 3, 1, 0; (46603), 3, 1, 0; (51834), 2, 1, 0; (55142), 2, 1, 0; (57374), 3, 1, 0; (83321), 3, 1, 0; (86075), 2, 1, 0; (87407), 3, 1, 0; (88320), 2, 1, 0; (96350), 2, 1, 0; (96452), 2, 1, 0; (100597), 2, 1, 0; (109699), 4, 2, 1; (109763), 2, 1, 0; (119405), 6, 2, 1; (129550), 2, 1, 0; (163740), 3, 1, 0; (187877), 3, 1, 0; (228519), 3, 1, 0; (244301), 5, 2, 1; (246918), 3, 1, 0; (250377), 6, 2, 1; (258858), 3, 1, 0; (265685), 2, 1, 0; (308107), 2, 1, 0; (334648), 4, 2, 1; (457175), 2, 1, 0; (463355), 4, 2, 1; (495827), 2, 1, 0; (495829), 3, 1, 0; *[214, 62, 5*, 2016/01/21–2017/09/29]*

{12} 2017 QK_{32}, 4, 2, 1; *[4, 1, 0*, 2017/09/10–2017/09/11]*

{16} 2017 OL_1, 3, 1, 0; 2017 OM_1, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 RL, 3, 1, 0; (14245), 3, 1, 0; (39808), 3, 1, 0; (93726), 3, 1, 0; (118595), 3, 1, 0; *[24, 8, 0*, 2017/07/22–2017/09/04]*

{2} (3122), 31, 2, 13; *[31, 1, 0∗, 2017/08/30–2017/09/12]*

{3} 2017 NL_6, 2, 1, 0; 2017 OD_1, 6, 2, 10; 2017 OH_7, 3, 1, 0; 2017 OT_{18}, 2, 1, 0; 2017 PR_{24}, 3, 1, 0; 2017 QN_{18}, 2, 1, 0; (3895), 3, 1, 0; (11194), 3, 1, 0; (17995), 3, 1, 0; (336146), 3, 1, 0; (457175), 5, 1, 0; *[35, 11, 0∗, 2017/07/20–2017/09/08]*

{9} 2017 NM_6, 3, 1, 0; 2017 OO_1, 3, 1, 0; 2017 QO_{33}, 2, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RV_1, 2, 1, 0; 2017 RX_1, 3, 1, 0; (995), 5, 1, 0; (1699), 2, 1, 0; (2060), 2, 1, 0; (2346), 2, 1, 0; (4538), 2, 1, 0; (4726), 2, 1, 0; (8191), 2, 1, 0; (21782), 2, 1, 0; (45262), 2, 1, 0; (51291), 2, 1, 0; (54222), 3, 1, 0; (68167), 2, 1, 0; (134702), 2, 1, 0; (457175), 9, 4, 52; *[54, 20, 0∗, 2017/07/06–2017/09/20]*

G45 Space Surveillance Telescope, Atom Site

J. Ruprecht, MIT Lincoln Laboratory, 244 Wood St., Lexington, MA 02420, U.S.A. [

Observers M. Blythe, G. Spitz, R. Brungard, J. Paige, P. Festler, T. McVey, A. Valdivia, C. Gall

3.6-m reflector + CCD

SSTRC1

2017 BW_{30}, 4, 1, 0; *[4, 1, 0∗, 2017/01/23]*

G48 Harlingten Research Observatory, Rancho Hildalgo

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

Observers C. Harlingten, M. Mills

0.40-m $f/6.7$ Ritchey-Chrétien + CCD

UCAC-4, UCAC-2

2015 EE_7, 3, 1, 0; 2016 AA_9, 4, 1, 0; 2017 OD_1, 6, 1, 0; 2017 OP_{68}, 24, 2, 5; 2017 PS_{25}, 3, 1, 0; 2017 PJ_{26}, 8, 1, 0; 2017 QB, 3, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 RL, 5, 1, 0; 2017 RU_1, 5, 2, 1; 2017 RV_1, 3, 1, 0; 2017 RW_1, 3, 1, 0; 2017 RX_1, 5, 1, 0; 2017 SN_2, 9, 1, 0; 2017 SD_{12}, 3, 1, 0; (3122), 4, 1, 0; (172575), 3, 1, 0; *[94, 17, 0∗, 2015/03/15–2017/09/23]*

G58 Chabot Space and Science Center, Oakland

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

Observers G. McKeegan, A. Ackerman

0.9-m $f/4.5$ Cassegrain + CCD

UCAC-4, PPMXL

2017 MN_7, 3, 1, 0; 2017 MU_8, 3, 1, 0; 2017 NH, 5, 1, 0; 2017 NK, 3, 1, 0; 2017 NV_5, 4, 1, 0; 2017 OM_1, 4, 1, 0; 2017 QB_2, 3, 1, 0; 2017 SV_{11}, 3, 1, 0; 2017 SM_{12}, 5, 1, 0; 2017 SU_{14}, 5, 1, 0; 2017 SW_{14}, 3, 1, 0; 2017 SH_{16}, 3, 1, 0; 2017 SV_{16}, 3, 1, 0; 2017 SN_{17}, 3, 1, 0; 2017 SS_{17}, 3, 1, 0; 2017 SD_{20}, 4, 1, 0; *[57, 16, 0∗, 2017/07/14–2017/09/28]*

G84 Mount Lemmon SkyCenter

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

0.6-m $f/7.8$ reflector + CCD

UCAC-2

2014 WQ_{160}, 3, 1, 0; *[3, 1, 0∗, 2012/04/19]*

G92 Jarnac Observatory, Vail

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

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

0.64-m $f/7.2$ Ritchey-Chrétien + CCD

USNO-A2.0

2008 YZ_{99}, 3, 1, 0; 2009 SX_{45}, 4, 1, 0; 2012 TU_{51}, 4, 1, 0; 2012 XR_{113}, 3, 1, 0; 2016 FH_{52}, 3, 1, 0; 2017 OV_{38}, 3, 1, 0; (496567), 3, 1, 0; *[23, 7, 0∗, 2004/12/12–2011/05/02]*

G96 Mt. Lemmon Survey

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

Observers D. C. Fuls, R. G. Matheny, J. A. Johnson, A. R. Gibbs

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

UCAC-4

1993 RA, 4, 1, 0; 1995 OA_3, 8, 1, 0; 1995 OW_{11}, 12, 3, 32; 1995 SL_{22}, 4, 1, 0; 1995 SY_{25}, 12, 3, 32; 1995 SX_{60}, 4, 1, 0; 1995 SR_{65}, 12, 3, 32; 1995 SE_{72}, 8, 2, 26; 1995 SO_{78}, 4, 1, 0; 1995 TP_5, 4, 1, 0; 1995 UP_{59}, 4, 1, 0; 1995 UM_{81}, 4, 1, 0; 1996 RA_7, 4, 1, 0; 1996 SO_5, 4, 1, 0; 1996 TQ_6, 12, 3, 32; 1996 VB_3, 4, 1, 0; 1996 VM_{16}, 4, 1, 0; 1996 VE_{42}, 8, 2, 26; 1997 SJ_9, 4, 1, 0; 1998 OL_2, 4, 1, 0; 1998 QO_{52}, 4, 1, 0; 1998 SB_{15}, 4, 1, 0; 1998 SS_{40}, 4, 1, 0; 1998 SR_{51}, 18, 5, 590; 1998 TM_1, 16, 4, 2995; 1998 VH_{57}, 40, 10, 2042; 1998 WZ_1, 4, 1, 0; 1998 WR_{30}, 4, 1, 0; 1998 YX_{31}, 16, 2, 26; 1999 TJ_{12}, 4, 1, 0; 1999 TE_{21}, 4, 1, 0; 1999 TD_{45}, 2, 1, 0; 1999 TH_{66}, 4, 1, 0; 1999 TD_{84}, 12, 3, 31; 1999 TS_{209}, 8, 2, 30; 1999 TK_{212}, 4, 1, 0; 1999 TZ_{226}, 4, 1, 0; 1999 TN_{299}, 4, 1, 0; 1999 TS_{312}, 8, 2, 29; 1999 TN_{319}, 4, 1, 0; 1999 UK_{12}, 4, 1, 0; 1999 UT_{36}, 4, 1, 0; 1999 VD_{41}, 4, 1, 0; 1999 VL_{42}, 3, 1, 0; 1999 VE_{76}, 12, 3, 2898; 1999 VY_{84}, 4, 1, 0; 1999 VD_{116}, 4, 1, 0; 1999 VH_{136}, 4, 1, 0; 1999 VD_{147}, 4, 1, 0; 2000 AK_{42}, 8, 2, 1806; 2000 AK_{258}, 20, 5, 1241; 2000 CT_{150}, 23, 6, 2932; 2000 DP_{66}, 8, 2, 25; 2000 JD_2, 2, 1, 0; 2000 RZ_{12}, 8, 2, 26; 2000 RA_{13}, 4, 1, 0; 2000 RB_{108}, 23, 5, 2789; 2000 SH_5, 12, 3, 25; 2000 SW_{26}, 15, 2, 1; 2000 SV_{43}, 12, 3, 31; 2000 SD_{77}, 40, 10, 2371; 2000 SS_{113}, 12, 3, 32; 2000 SX_{131}, 12, 3, 1391; 2000 SQ_{164}, 4, 1, 0; 2000 SN_{214}, 4, 1, 0; 2000 SP_{242}, 4, 1, 0; 2000 ST_{336}, 4, 1, 0; 2000 SF_{369}, 8, 2, 25; 2000 SC_{377}, 8, 2, 1277; 2000 TW_{32}, 4, 1, 0; 2000 TA_{45}, 4, 1, 0; 2000 UD_{16}, 4, 1, 0; 2000 WB_{105}, 8, 1, 0; 2000 WK_{159}, 3, 1, 0; 2000 WO_{198}, 8, 2, 22; 2000 WP_{198}, 8, 2, 853; 2000 XG_{24}, 4, 1, 0; 2000 YQ_{16}, 8, 2, 103; 2001 AT_{47}, 8, 2, 25; 2001 CM_{47}, 4, 1, 0; 2001 DU_7, 8, 2, 567; 2001 FL_{199}, 4, 1, 0; 2001 FG_{204}, 4, 1, 0; 2001 OB_{74}, 4, 1, 0; 2001 PS_4, 16, 4, 32; 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L. A. Molnar, Dept. of Physics & Astronomy, Calvin College, 1734 Knollcrest Circle SE, Grand Rapids, MI 49546, U.S.A. [lmolnar@calvin.edu]

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

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2.4-m $f/8.9$ reflector + CCD

Gaia-DR1, Gaia-DR1

2012 TC_4, 12, 3, 15; 2017 EN, 4, 1, 0; 2017 PT_{24}, 4, 1, 0; 2017 PW_{24}, 4, 1, 0; 2017 PX_{24}, 8, 2, 1; 2017 PY_{24}, 8, 2, 1; 2017 PZ_{24}, 4, 1, 0; 2017 PB_{25}, 4, 1, 0; 2017 PL_{26}, 4, 1, 0; 2017 PN_{26}, 4, 1, 0; 2017 PO_{26}, 4, 1, 0; 2017 PQ_{26}, 4, 1, 0; 2017 PW_{26}, 4, 1, 0; 2017 PX_{26}, 4, 1, 0; 2017 PY_{26}, 4, 1, 0; 2017 PA_{27}, 4, 1, 0; 2017 PB_{27}, 4, 1, 0; 2017 PC_{27}, 4, 1, 0; 2017 QC, 4, 1, 0; 2017 QG, 4, 1, 0; 2017 QL, 4, 1, 0; 2017 QN, 4, 1, 0; 2017 QP, 4, 1, 0; 2017 QS, 4, 1, 0; 2017 QR_1, 4, 1, 0; 2017 QC_2, 4, 1, 0; 2017 QY_{17}, 4, 1, 0; 2017 QB_{18}, 4, 1, 0; 2017 QC_{18}, 4, 1, 0; 2017 QD_{18}, 4, 1, 0; 2017 QE_{18}, 4, 1, 0; 2017 QH_{18}, 4, 1, 0; 2017 QM_{18}, 4, 1, 0; 2017 QN_{18}, 4, 1, 0; 2017 QR_{32}, 4, 1, 0; 2017 QS_{32}, 8, 2, 1; 2017 QT_{32}, 8, 2, 1; 2017 QU_{32}, 8, 2, 1; 2017 QV_{32}, 4, 1, 0; 2017 QW_{32}, 4, 1, 0; 2017 QM_{33}, 8, 2, 1; 2017 QN_{33}, 4, 1, 0; 2017 QP_{33}, 4, 1, 0; 2017 QT_{33}, 4, 1, 0; 2017 QU_{33}, 4, 1, 0; 2017 QU_{34}, 12, 3, 3; 2017 QY_{34}, 4, 1, 0; 2017 QZ_{34}, 4, 1, 0; 2017 QA_{35}, 4, 1, 0; 2017 QB_{35}, 8, 2, 1; 2017 QD_{35}, 4, 1, 0; 2017 QF_{35}, 4, 1, 0; 2017 QK_{35}, 4, 1, 0; 2017 QL_{35}, 4, 1, 0; 2017 QM_{35}, 8, 2, 1; 2017 QN_{35}, 8, 2, 1; 2017 QO_{35}, 8, 2, 1; 2017 QP_{35}, 8, 2, 1; 2017 QQ_{35}, 4, 1, 0; 2017 QT_{35}, 4, 1, 0; 2017 QX_{35}, 4, 1, 0; 2017 QB_{36}, 4, 1, 0; 2017 QD_{36}, 4, 1, 0; 2017 QF_{36}, 4, 1, 0; 2017 RB, 8, 2, 1; 2017 RC, 8, 2, 1; 2017 RD, 4, 1, 0; 2017 RF, 4, 1, 0; 2017 RL, 4, 1, 0; 2017 RU, 4, 1, 0; 2017 RV, 4, 1, 0; 2017 RK_1, 4, 1, 0; 2017 RM_1, 4, 1, 0; 2017 RN_1, 4, 1, 0; 2017 RU_1, 4, 1, 0; 2017 RH_2, 4, 1, 0; 2017 RN_{17}, 4, 1, 0; 2017 RQ_{17}, 8, 2, 1; 2017 RY_{17}, 4, 1, 0; 2017 SQ_{12}, 4, 1, 0; 2017 SS_{12}, 4, 1, 0; 2017 SZ_{12}, 8, 2, 1; 2017 SM_{13}, 4, 1, 0; 2017 SN_{13}, 4, 1, 0; 2017 SN_{14}, 4, 1, 0; 2017 SO_{14}, 4, 1, 0; 2017 SR_{14}, 4, 1, 0; 2017 SV_{14}, 4, 1, 0; 2017 SH_{16}, 4, 1, 0; 2017 SL_{16}, 4, 1, 0; 2017 SN_{16}, 4, 1, 0; 2017 SQ_{16}, 4, 1, 0; 2017 SR_{16}, 4, 1, 0; 2017 SD_{17}, 4, 1, 0; 2017 SS_{17}, 4, 1, 0; 2017 SS_{19}, 4, 1, 0; *[460, 96, 0*, 2017/03/03–2017/09/26]*

H06 iTelescope Observatory, Mayhill

M. Suzuki, 301 Mezon-do-Daihachi, 1571 Imaizumi-cho, Utsunomiya, Tochigi, 321-0962 Japan [mtnsuzuki@ybb.ne.jp] (12)

R. Ligustri, Circulo Astrofili Talmassons Observatory, Talmassons (UD), Italy [rolando.ligustri@tin.it] (19)

H. Sato, 46-2-401, Den-en-chofu, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (32)

S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (58)

A. J. Evans, Apartado 286, 8601-929 LUZ LGS, Portugal [tony.evans@sapo.pt] (59)

Observers S. M. Tilley, R. Ligustri, A. Valvasori, V. Grossi, E. Bryssinck, A. Manannikov, K. Sokolovsky, M. Suzuki, H. Sato, M. Urbanik, A. J. Evans

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

UCAC-4, CMC-15, UCAC-3, NOMAD, Gaia-DR1

{12} 2017 RL, 2, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RG_2, 3, 1, 0; 2017 SN_2, 3, 1, 0; *[11, 4, 0*, 2017/09/04–2017/09/19]*

{19} (457175), 3, 1, 0; *[3, 1, 0*, 2017/07/19]*

{58} 2017 MB_1, 4, 1, 0; 2017 NN_2, 4, 1, 0; 2017 NM_6, 4, 1, 0; 2017 OD_1, 3, 1, 0; 2017 RL, 3, 1, 0; *[18, 5, 0*, 2017/07/12–2017/09/07]*

{59} 2017 SS_{12}, 2, 1, 0; *[2, 1, 0*, 2017/09/26]*

{32} 2017 PY_{24}, 3, 1, 0; *[3, 1, 0*, 2017/08/13]*

H07 7300 Observatory, Cloudcroft

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

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

USNO-A2.0

2009 AS_{51}, 3, 1, 0; (495953), 2, 1, 0; *[5, 2, 0*, 2007/11/14–2014/10/13]*

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

1996 VE_{42}, 4, 1, 0; 1999 RB_{30}, 3, 1, 0; 1999 TS_{312}, 3, 1, 0; 2000 VR_{23}, 3, 1, 0; 2001 PS_4, 3, 1, 0; 2001 VA_6, 3, 1, 0; 2002 DF_8, 3, 1, 0; 2002 LU_6, 6, 2, 31; 2002 PG_{83}, 3, 1, 0; 2002 RP_{28}, 3, 1, 0; 2002 RP_{263}, 3, 1, 0; 2003 RV, 3, 1, 0; 2003 SD, 3, 1, 0; 2003 SQ_{166}, 3, 1, 0; 2003 SV_{303}, 3, 1, 0; 2003 UD_{40}, 3, 1, 0; 2004 LF_2, 3, 1, 0; 2004 PO_{15}, 3, 1, 0; 2004 PU_{19}, 3, 1, 0; 2004 RW_{191}, 3, 1, 0; 2004 RG_{194}, 3, 1, 0; 2004 TQ_{13}, 3, 1, 0; 2004 TF_{71}, 3, 1, 0; 2006 QQ_7, 3, 1, 0; 2006 QL_{20}, 3, 1, 0; 2006 QD_{37}, 3, 1, 0; 2006 QF_{140}, 3, 1, 0; 2006 RA_5, 3, 1, 0; 2006 ST_1, 3, 1, 0; 2006 SO_{79}, 3, 1, 0; 2007 PT_{27}, 3, 1, 0; 2007 XB_{36}, 3, 1, 0; 2008 NV_1, 3, 1, 0; 2008 OG_4, 3, 1, 0; 2008 OS_5, 3, 1, 0;

2008 OS_8, 3, 1, 0; 2008 PN_1, 3, 1, 0; 2008 SS_{207}, 3, 1, 0; 2008 UV_{92}, 3, 1, 0; 2008 UJ_{341}, 3, 1, 0; 2008 YB_{171}, 3, 1, 0; 2009 RF_{19}, 3, 1, 0; 2009 VX_{73}, 3, 1, 0; 2010 CA_{25}, 3, 1, 0; 2010 JH_{85}, 3, 1, 0; 2010 LA_{109}, 4, 1, 0; 2010 MY_{65}, 3, 1, 0; 2010 MA_{94}, 3, 1, 0; 2010 RM_{119}, 3, 1, 0; 2010 SW_{10}, 4, 1, 0; 2010 TU_{36}, 3, 1, 0; 2011 HC_8, 3, 1, 0; 2011 NK_3, 3, 1, 0; 2011 OL_{55}, 3, 1, 0; 2011 YT_{14}, 4, 1, 0; 2011 YQ_{74}, 3, 1, 0; 2012 BQ_{155}, 4, 1, 0; 2012 DL_{99}, 4, 1, 0; 2012 QO_{20}, 3, 1, 0; 2012 QY_{20}, 6, 2, 14; 2012 SS_{10}, 3, 1, 0; 2012 TV_{233}, 3, 1, 0; 2012 UT_{29}, 3, 1, 0; 2013 GM_{138}, 4, 1, 0; 2013 LX_{31}, 3, 1, 0; 2013 PW_{25}, 3, 1, 0; 2013 QP_{82}, 3, 1, 0; 2013 RF_{35}, 3, 1, 0; 2013 RX_{64}, 3, 1, 0; 2013 RV_{96}, 6, 2, 25; 2013 RE_{99}, 4, 1, 0; 2013 TB_{30}, 3, 1, 0; 2013 TC_{36}, 3, 1, 0; 2013 TR_{52}, 3, 1, 0; 2013 TL_{61}, 3, 1, 0; 2013 TU_{73}, 3, 1, 0; 2013 TO_{76}, 4, 1, 0; 2013 VT_{20}, 3, 1, 0; 2013 VX_{21}, 3, 1, 0; 2013 WJ_{106}, 3, 1, 0; 2013 WM_{110}, 4, 1, 0; 2014 SU_{213}, 3, 1, 0; 2014 SZ_{307}, 3, 1, 0; 2014 SH_{351}, 4, 1, 0; 2014 UC_{54}, 4, 1, 0; 2014 UQ_{204}, 3, 1, 0; 2014 VV_{28}, 7, 2, 2531; 2014 WF_{64}, 4, 1, 0; 2014 WH_{467}, 4, 1, 0; 2014 XQ_6, 4, 1, 0; 2014 YU_3, 3, 1, 0; 2014 YC_{15}, 6, 2, 31; 2014 YE_{20}, 4, 1, 0; 2014 YD_{41}, 4, 1, 0; 2014 YE_{48}, 3, 1, 0; 2015 AA_{282}, 3, 1, 0; 2015 BO_6, 4, 1, 0; 2015 BA_{101}, 4, 1, 0; 2015 BT_{140}, 4, 1, 0; 2015 BN_{203}, 4, 1, 0; 2015 BT_{240}, 4, 1, 0; 2015 BW_{256}, 8, 2, 1; 2015 BQ_{459}, 3, 1, 0; 2015 BE_{510}, 3, 1, 0; 2015 BQ_{520}, 3, 1, 0; 2015 DP_{35}, 4, 1, 0; 2015 DM_{202}, 4, 1, 0; 2015 EC_{10}, 4, 1, 0; 2015 ER_{45}, 3, 1, 0; 2015 FL_{343}, 3, 1, 0; 2015 GT_4, 4, 1, 0; 2015 KS_{163}, 4, 1, 0; 2015 OK_{80}, 3, 1, 0; 2016 AN_{36}, 3, 1, 0; 2016 CV, 3, 1, 0; 2016 CL_{31}, 3, 1, 0; 2016 EM_{59}, 3, 1, 0; 2016 EY_{121}, 3, 1, 0; 2016 FL_4, 4, 1, 0; 2016 FL_{17}, 4, 1, 0; 2016 FG_{20}, 3, 1, 0; 2016 GW_{170}, 3, 1, 0; 2016 GF_{252}, 6, 2, 3; 2016 ND_{21}, 3, 1, 0; 2016 PE_{37}, 4, 1, 0; 2016 PN_{79}, 4, 1, 0; 2016 TS_{52}, 3, 1, 0; 2016 UW_{67}, 4, 1, 0; 2016 WM_2, 4, 1, 0; 2017 BP_{16}, 3, 1, 0; 2017 KV_5, 4, 1, 0; 2017 KO_{12}, 4, 1, 0; 2017 MY_3, 3, 1, 0; 2017 MR_4, 3, 1, 0; 2017 NV, 4, 1, 0; 2017 NR_2, 3, 1, 0; 2017 NL_4, 3, 1, 0; 2017 OO, 4, 1, 0; 2017 OP_{12}, 3, 1, 0; 2017 OX_{29}, 3, 1, 0; 2017 OV_{36}, 3, 1, 0; 2017 OA_{49}, 3, 1, 0; 2017 OT_{49}, 4, 1, 0; 2017 OZ_{60}, 4, 1, 0; 2017 OQ_{61}, 4, 1, 0; 2017 OG_{65}, 4, 1, 0; 2017 PJ_{26}, 3, 1, 0; 2017 QF_{31}, 3, 1, 0; 2017 QK_{32}, 8, 2, 10; 2017 RL, 3, 1, 0; 2017 RY_{13}, 4, 1, 0; 2017 SQ_8, 4, 1, 0; (26), 3, 1, 0; (48), 3, 1, 0; (50), 3, 1, 0; (53), 3, 1, 0; (56), 3, 1, 0; (59), 3, 1, 0; (62), 3, 1, 0; (65), 6, 2, 1; (71), 3, 1, 0; (82), 3, 1, 0; (90), 3, 1, 0; (108), 6, 2, 16; (109), 3, 1, 0; (114), 3, 1, 0; (122), 3, 1, 0; (126), 9, 3, 55; (140), 3, 1, 0; (141), 6, 2, 18; (142), 3, 1, 0; (144), 3, 1, 0; (151), 3, 1, 0; (161), 3, 1, 0; (166), 3, 1, 0; (167), 3, 1, 0; (182), 3, 1, 0; (184), 3, 1, 0; (188), 6, 2, 18; (197), 6, 2, 6; (208), 6, 2, 32; (211), 6, 2, 18; (214), 3, 1, 0; (217), 3, 1, 0; (222), 3, 1, 0; (236), 3, 1, 0; (242), 3, 1, 0; (245), 3, 1, 0; (265), 3, 1, 0; (268), 3, 1, 0; (269), 3, 1, 0; (275), 3, 1, 0; (278), 6, 2, 2; (289), 3, 1, 0; (291), 9, 3, 49; (295), 6, 2, 20; (300), 3, 1, 0; (307), 3, 1, 0; (310), 6, 2, 51; (320), 3, 1, 0; (326), 6, 2, 18; (330), 3, 1, 0; (332), 3, 1, 0; (335), 3, 1, 0; (336), 6, 2, 20; (337), 9, 3, 10; (338), 9, 3, 22; (347), 3, 1, 0; (359), 6, 2, 20; (364), 3, 1, 0; (365), 6, 2, 14; (373), 3, 1, 0; (377), 6, 2, 56; (381), 3, 1, 0; (385), 6, 2, 19; (386), 3, 1, 0; (388), 6, 2, 16; (405), 6, 2, 16; (416), 3, 1, 0; (425), 3, 1, 0; (437), 3, 1, 0; (440), 3, 1, 0; (451), 3, 1, 0; (454), 3, 1, 0; (456), 3, 1, 0; (464), 3, 1, 0; (476), 3, 1, 0; (478), 3, 1, 0; (488), 3, 1, 0; (507), 6, 2, 29; (510), 3, 1, 0; (512), 3, 1, 0; (516), 6, 2, 14; (526), 6, 2, 11; (541), 3, 1, 0; (547), 3, 1, 0; (548), 3, 1, 0; (550), 3, 1, 0; (553), 3, 1, 0; (565), 3, 1, 0; (568), 3, 1, 0; (572), 3, 1, 0; (578), 3, 1, 0; (580), 3, 1, 0; (582), 3, 1, 0; (591), 3, 1, 0; (592), 3, 1, 0; (595), 3, 1, 0; (608), 3, 1, 0; (625), 3, 1, 0; (638), 3, 1, 0; (643), 3, 1, 0; (646), 3, 1, 0; (658), 6, 2, 49; (664), 6, 2, 15; (666), 3, 1, 0; (671), 3, 1, 0; (680), 6, 2, 33; (687), 3, 1, 0; (691), 3, 1, 0; (712), 3, 1, 0; (714), 3, 1, 0; (722), 3, 1, 0; (723), 3, 1, 0; (727), 6, 2, 2; (730), 3, 1, 0; (744), 3, 1, 0; (751), 3, 1, 0; (758), 3, 1, 0; (763), 6, 2, 51; (782), 3, 1, 0; (786), 3, 1, 0; (800), 6, 2, 16; (808), 3, 1, 0; (823), 9, 3, 24; (825), 6, 2, 15; (831), 3, 1, 0; (832), 3, 1, 0; (837), 6, 2, 14; (845), 3, 1, 0; (856), 3, 1, 0; (865), 3, 1, 0; (867), 3, 1, 0; (868), 3, 1, 0; (870), 3, 1, 0; (877), 3, 1, 0; (882), 3, 1, 0; (901), 3, 1, 0; (910), 3, 1, 0; (916), 6, 2, 37; (928), 3, 1, 0; (937), 3, 1, 0; (938), 3, 1, 0; (959), 3, 1, 0; (967), 3, 1, 0; (968), 3, 1, 0; (969), 3, 1, 0; (974), 3, 1, 0; (976), 3, 1, 0; (980), 3, 1, 0; (991), 6, 2, 15; (992), 6, 2, 15; (993), 3, 1, 0; (994), 9, 3, 10; (995), 3, 1, 0; (998), 3, 1, 0; (1002), 3, 1, 0; (1004), 9, 3, 10; (1007), 6, 2, 16; (1014), 3, 1, 0; (1028), 6, 2, 15; (1063), 3, 1, 0; (1072), 6, 2, 16; (1077), 3, 1, 0; (1078), 6, 2, 29; (1095), 3, 1, 0; (1105), 3, 1, 0; (1108), 3, 1, 0; (1109), 6, 2, 24; (1111), 3, 1, 0; (1113), 6, 2, 18; (1122), 3, 1, 0; (1123), 3, 1, 0; (1134), 3, 1, 0; (1142), 3, 1, 0; (1145), 3, 1, 0; (1155), 3, 1, 0; (1156), 9, 3, 55; (1175), 3, 1, 0; (1176), 3, 1, 0; (1178), 6, 2, 15; (1179), 3, 1, 0; (1181), 6, 2, 20; (1182), 9, 3, 51; (1185), 6, 2, 2; (1190), 3, 1, 0; (1192), 3, 1, 0; (1194), 3, 1, 0; (1195), 3, 1, 0; (1202), 3, 1, 0; (1212), 3, 1, 0; (1215), 3, 1, 0; (1222), 3, 1, 0; (1228), 3, 1, 0; (1240), 6, 2, 14; (1254), 6, 2, 14; (1259), 3, 1, 0; (1263), 3, 1, 0; (1266), 6, 2, 12; (1270), 6, 2, 6; (1283), 3, 1, 0; (1286), 6, 1, 0; (1291), 3, 1, 0; (1308), 3, 1, 0; (1309), 3, 1, 0; (1311), 3, 1, 0; (1323), 6, 2, 15; (1326), 3, 1, 0; (1328), 6, 2, 35; (1331), 3, 1, 0; (1335), 3, 1, 0; (1339), 3, 1, 0; (1344), 3, 1, 0; (1350), 3, 1, 0; (1373), 3, 1, 0; (1378), 3, 1, 0; (1389), 3, 1, 0; (1393), 6, 2, 15; (1394), 6, 2, 15; (1403), 6, 2, 27; (1405), 6, 2, 14; (1411), 3, 1, 0; (1418), 3, 1, 0; (1422), 6, 2, 49; (1425), 3, 1, 0; (1439), 6, 2, 15; (1465), 3, 1, 0; (1472), 3, 1, 0; (1479), 3, 1, 0; (1482), 3, 1, 0; (1483), 6, 2, 55; (1488), 3, 1, 0; (1496), 6, 2, 22; (1499), 3, 1, 0; (1500), 3, 1, 0; (1514), 3, 1, 0; (1516), 3, 1, 0; (1521), 3, 1, 0; (1528), 3, 1, 0; (1529), 3, 1, 0; (1532), 3, 1, 0; (1535), 3, 1, 0; (1546), 3, 1, 0; (1562), 3, 1, 0; (1575), 3, 1, 0; (1577), 3, 1, 0; (1579), 3, 1, 0; (1581), 3, 1, 0; (1586), 6, 2, 15; (1590), 3, 1, 0; (1592), 3, 1, 0; (1595), 6, 2, 15; (1599), 9, 3, 55; (1601), 3, 1, 0; (1604), 3, 1, 0; (1605), 3, 1, 0; (1608), 6, 2, 49; (1615), 3, 1, 0; (1616), 6, 2, 15; (1618), 3, 1, 0; (1619), 3, 1, 0; (1622), 3, 1, 0; (1628), 3, 1, 0; (1629), 6, 2, 27; (1632), 6, 2, 56; (1633), 6, 2, 15; (1634), 3, 1, 0; (1636), 3, 1, 0; (1639), 6, 2, 14; (1640), 9, 3, 25; (1650), 3, 1, 0; (1652), 3, 1, 0; (1655), 3, 1, 0; (1661), 3, 1, 0; (1663), 6, 2, 1; (1664), 9, 3, 43; (1667), 3, 1, 0; (1669), 3, 1, 0; (1671), 6, 2, 24; (1676), 9, 3, 55; (1677), 3, 1, 0; (1680), 3, 1, 0; (1686), 3, 1, 0; (1690), 3, 1, 0; (1698), 6, 2, 6; (1699), 6, 2, 6; (1704), 3, 1, 0; (1705), 3, 1, 0; (1715), 3, 1, 0; (1716), 6, 2, 14; (1720), 3, 1, 0; (1723), 3, 1, 0; (1725), 3, 1, 0; (1731), 3, 1, 0; (1733), 3, 1, 0; (1741), 9, 3, 55; (1743), 3, 1, 0; (1744), 6, 2, 17; (1754), 3, 1, 0; (1755), 3, 1, 0; (1758), 6, 2, 2; (1762), 3, 1, 0; (1766), 3, 1, 0; (1770), 3, 1, 0; (1772), 3, 1, 0; (1774), 9, 3, 55; (1778), 3, 1, 0; (1782), 3, 1, 0; (1784), 3, 1, 0; (1794), 3, 1, 0; (1796), 3, 1, 0; (1820), 3, 1, 0; (1821), 3, 1, 0; (1822), 3, 1, 0; (1823), 3, 1, 0; (1826), 6, 2, 25; (1833), 3, 1, 0; (1836), 3, 1, 0; (1837), 6, 2, 24; (1842), 3, 1, 0; (1843), 3, 1, 0; (1846), 3, 1, 0; (1850), 3, 1, 0; (1858), 3, 1, 0; (1884), 3, 1, 0; (1888), 6, 2, 16; 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H21 Astronomical Research Observatory, Westfield

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

Observer R. Holmes

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

0.61-m $f/4$ astrograph + CCD, 0.81-m $f/4$ astrograph + CCD, 0.76-m $f/3$ astrograph + CCD, 1.3-m $f/4$ astrograph + CCD

UCAC-3, Gaia-DR1

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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

2006 QL_{20}, 3, 1, 0; 2017 RU_{13}, 3, 1, 0; (583), 3, 1, 0; (811), 3, 1, 0; (964), 3, 1, 0; (1019), 3, 1, 0; (1109), 3, 1, 0; (2057), 3, 1, 0; (2133), 3, 1, 0; (2331), 3, 1, 0; (2440), 3, 1, 0; (2783), 3, 1, 0; (2844), 3, 1, 0; (3128), 3, 1, 0; (3406), 3, 1, 0; (3481), 3, 1, 0; (3502), 3, 1, 0; (3720), 3, 1, 0; (3902), 3, 1, 0; (4202), 3, 1, 0; (4779), 6, 2, 1; (4993), 3, 1, 0; (5372), 3, 1, 0; (5410), 3, 1, 0; (5444), 3, 1, 0; (5446), 3, 1, 0; (5636), 3, 1, 0; (5850), 3, 1, 0; (5938), 3, 1, 0; (6125), 3, 1, 0; (6138), 3, 1, 0; (6415), 3, 1, 0; (6774), 3, 1, 0; (7084), 6, 2, 5; (7259), 3, 1, 0; (7413), 3, 1, 0; (7446), 3, 1, 0; (7587), 3, 1, 0; (7675), 3, 1, 0; (7728), 3, 1, 0; (8054), 3, 1, 0; (8117), 3, 1, 0; (8163), 3, 1, 0; (8251), 3, 1, 0; (8254), 3, 1, 0; (8534), 3, 1, 0; (8535), 6, 2, 5; (8571), 3, 1, 0; (8597), 3, 1, 0; (8629), 3, 1, 0; (8754), 3, 1, 0; (9471), 3, 1, 0; (10208), 3, 1, 0; (10403), 3, 1, 0; (10729), 3, 1, 0; (10927), 3, 1, 0; (11532), 3, 1, 0; (11749), 3, 1, 0; (12106), 3, 1, 0; (12293), 3, 1, 0; (12633), 3, 1, 0; (12808), 3, 1, 0; (12891), 3, 1, 0; (13179), 3, 1, 0; (13663), 3, 1, 0; (14674), 3, 1, 0; (14986), 3, 1, 0; (15498), 3, 1, 0; (16224), 3, 1, 0; (16365), 3, 1, 0; (16452), 3, 1, 0; (16486), 3, 1, 0; (16780), 3, 1, 0; (17006), 3, 1, 0; (17119), 3, 1, 0; (17372), 3, 1, 0; (17381), 3, 1, 0; (17844), 3, 1, 0; (18090), 3, 1, 0; (18386), 3, 1, 0; (18939), 3, 1, 0; (19149), 3, 1, 0; (20056), 3, 1, 0; (20265), 3, 1, 0; (20813), 3, 1, 0; (20891), 3, 1, 0; (20921), 3, 1, 0; (21061), 3, 1, 0; (21619), 3, 1, 0; (22319), 3, 1, 0; (22385), 3, 1, 0; (23281), 3, 1, 0; (23287), 3, 1, 0; (23680), 3, 1, 0; (23980), 3, 1, 0; (25127), 3, 1, 0; (26887), 3, 1, 0; (26915), 3, 1, 0; (27240), 3, 1, 0; (27913), 3, 1, 0; (28323), 3, 1, 0; (28414), 3, 1, 0; (28661), 3, 1, 0; (28806), 3, 1, 0; (28832), 3, 1, 0; (29379), 3, 1, 0; (29593), 3, 1, 0; (30056), 3, 1, 0; (30189), 3, 1, 0; (30306), 3, 1, 0; (30609), 3, 1, 0; (30853), 3, 1, 0; (31534), 3, 1, 0; (31708), 3, 1, 0; (32096), 3, 1, 0; (33018), 3, 1, 0; (34016), 3, 1, 0; (34134), 3, 1, 0; (34254), 3, 1, 0; (35274), 3, 1, 0; (35871), 3, 1, 0; (36140), 3, 1, 0; (36804), 3, 1, 0; (36871), 3, 1, 0; (37026), 3, 1, 0; (37825), 3, 1, 0; (38214), 6, 2, 5; (38431), 3, 1, 0; (39406), 3, 1, 0; (39529), 3, 1, 0; (39591), 3, 1, 0; (39751), 6, 2, 5; (39764), 3, 1, 0; (40465), 3, 1, 0; (40526), 3, 1, 0; (41722), 3, 1, 0; (42737), 3, 1, 0; (42824), 3, 1, 0; (42975), 3, 1, 0; (44342), 3, 1, 0; (44796), 3, 1, 0; (44864), 3, 1, 0; (44958), 3, 1, 0; (45098), 3, 1, 0; (46129), 3, 1, 0; (46504), 3, 1, 0; (46914), 3, 1, 0; (47032), 3, 1, 0; (47049), 3, 1, 0; (47346), 3, 1, 0; (47360), 3, 1, 0; (47880), 3, 1, 0; (47909), 3, 1, 0; (48575), 3, 1, 0; (48913), 3, 1, 0; (49174), 3, 1, 0; (50127), 3, 1, 0; (50475), 3, 1, 0; (50821), 3, 1, 0; (50922), 3, 1, 0; (51667), 3, 1, 0; (52351), 3, 1, 0; (52378), 3, 1, 0; (53160), 3, 1, 0; (53264), 3, 1, 0; (53604), 3, 1, 0; (55512), 3, 1, 0; (55583), 3, 1, 0; (56885), 3, 1, 0; (56932), 3, 1, 0; (57187), 3, 1, 0; (57200), 3, 1, 0; (58591), 3, 1, 0; (58939), 3, 1, 0; (59287), 3, 1, 0; (59411), 3, 1, 0; (59586), 3, 1, 0; (59648), 3, 1, 0; (60088), 3, 1, 0; (60156), 3, 1, 0; (60919), 3, 1, 0; (60968), 3, 1, 0; (61193), 3, 1, 0; (61423), 3, 1, 0; (61429), 3, 1, 0; (61753), 3, 1, 0; (63544), 5, 1, 0; (65829), 3, 1, 0; (66287), 3, 1, 0; (68524), 3, 1, 0; (69011), 3, 1, 0; (69591), 3, 1, 0; (69630), 3, 1, 0; (70339), 3, 1, 0; (70361), 3, 1, 0; (70478), 3, 1, 0; (72316), 3, 1, 0; (72421), 3, 1, 0; (72920), 3, 1, 0; (73071), 3, 1, 0; (73970), 3, 1, 0; (74003), 3, 1, 0; (74102), 3, 1, 0; (74523), 3, 1, 0; (74761), 3, 1, 0; (74806), 3, 1, 0; (75040), 3, 1, 0; (75300), 3, 1, 0; (75324), 3, 1, 0; (75473), 3, 1, 0; (76074), 3, 1, 0; (76513), 3, 1, 0; (77424), 3, 1, 0; (79370), 3, 1, 0; (79431), 3, 1, 0; (79609), 3, 1, 0; (82022), 3, 1, 0; (83172), 3, 1, 0; (83474), 3, 1, 0; (84001), 3, 1, 0; (84134), 3, 1, 0; (84454), 6, 2, 5; (87290), 3, 1, 0; (88472), 3, 1, 0; (88685), 3, 1, 0; (89334), 3, 1, 0; (89661), 3, 1, 0; (91088), 3, 1, 0; (91308), 3, 1, 0; (92394), 3, 1, 0; (92478), 3, 1, 0; (92857), 3, 1, 0; (93923), 3, 1, 0; (96626), 3, 1, 0; (98041), 3, 1, 0; (98425), 3, 1, 0; (99303), 3, 1, 0; (100226), 3, 1, 0; (101781), 3, 1, 0; (102790), 3, 1, 0; (103143), 3, 1, 0; (103972), 3, 1, 0; (104134), 3, 1, 0; (104659), 3, 1, 0; (105283), 3, 1, 0; (105869), 3, 1, 0; (106981), 3, 1, 0; (111270), 3, 1, 0; (111934), 3, 1, 0; (114600), 3, 1, 0; (115523), 3, 1, 0; (116831), 3, 1, 0; (118637), 3, 1, 0; (122633), 3, 1, 0; (125640), 3, 1, 0; (125868), 3, 1, 0; (127675), 3, 1, 0; (128314), 3, 1, 0; (128404), 3, 1, 0; (130541), 3, 1, 0; (130551), 3, 1, 0; (132336), 3, 1, 0; (134559), 3, 1, 0; (142230), 3, 1, 0; (143377), 3, 1, 0; (153523), 3, 1, 0; (153811), 3, 1, 0; (154828), 3, 1, 0; (155774),

3, 1, 0; (156996), 3, 1, 0; (165746), 3, 1, 0; (166622), 3, 1, 0; (168583), 3, 1, 0; (168613), 3, 1, 0; (169961), 3, 1, 0; (171979), 3, 1, 0; (174760), 3, 1, 0; (176171), 3, 1, 0; (177529), 3, 1, 0; (183577), 3, 1, 0; (184193), 3, 1, 0; (188032), 3, 1, 0; (207803), 3, 1, 0; (211149), 3, 1, 0; (212085), 3, 1, 0; (227434), 3, 1, 0; (243762), 3, 1, 0; (253455), 3, 1, 0; (259871), 3, 1, 0; (264969), 3, 1, 0; (283603), 3, 1, 0; (326296), 3, 1, 0; (326642), 3, 1, 0; (334744), 3, 1, 0; (360701), 3, 1, 0; (376698), 3, 1, 0; (380569), 3, 1, 0; (388925), 3, 1, 0; (411201), 3, 1, 0; *[917, 299, 0*, 2017/03/04–2017/09/30]*

H32 Texas A&M Physics Observatory, College Station
D. Carona, Department of Physics, MS-4242, College Station, TX 77843-4242, U.S.A. [don@neo.tamu.edu]
Observers D. W. Carona, J. J. Weimer
0.50-m f/8.0 Ritchey-Chrétien + CCD, 0.40-m f/6.3 Schmidt-Cassegrain + CCD
2MASS, GSC-1.0, UCAC-4, Tycho-2
(3122), 16, 6, 21; *[16, 1, 0*, 2017/09/02–2017/09/23]*

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
2000 SV_{180}, 2, 1, 0; 2000 XO_8, 3, 1, 0; 2001 NJ_6, 3, 1, 0; 2010 OO_{127}, 2, 1, 0; 2013 NB_3, 6, 2, 4; 2014 SZ_{350}, 3, 1, 0; 2015 PN_{291}, 2, 1, 0; 2015 VY_{152}, 3, 1, 0; 2017 KR_{34}, 3, 1, 0; 2017 LY, 3, 1, 0; 2017 MP_2, 3, 1, 0; 2017 MC_5, 3, 1, 0; 2017 MQ_8, 3, 1, 0; 2017 MT_8, 4, 1, 0; 2017 MW_8, 3, 1, 0; 2017 NL_2, 4, 1, 0; 2017 NT_6, 2, 1, 0; 2017 NX_6, 2, 1, 0; 2017 OC, 6, 2, 1; 2017 OD, 9, 3, 2; 2017 OA_1, 3, 1, 0; 2017 OO_1, 2, 1, 0; 2017 OP_1, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OJ_7, 3, 1, 0; 2017 OS_{18}, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OU_{18}, 3, 1, 0; 2017 OC_{19}, 4, 1, 0; 2017 OP_{19}, 2, 1, 0; 2017 OR_{19}, 3, 1, 0; 2017 PX_{24}, 2, 1, 0; 2017 PY_{24}, 2, 1, 0; 2017 PD_{25}, 3, 1, 0; 2017 PN_{25}, 2, 1, 0; 2017 PQ_{25}, 2, 1, 0; 2017 PS_{25}, 6, 2, 2; 2017 PT_{25}, 3, 1, 0; 2017 PU_{25}, 3, 1, 0; 2017 PX_{25}, 3, 1, 0; 2017 PL_{26}, 3, 1, 0; 2017 QW, 2, 1, 0; 2017 QR_1, 2, 1, 0; 2017 QW_1, 3, 1, 0; 2017 QC_3, 2, 1, 0; 2017 QF_{17}, 2, 1, 0; 2017 QJ_{17}, 2, 1, 0; 2017 QP_{17}, 6, 2, 2; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; 2017 QW_{17}, 4, 1, 0; 2017 QE_{18}, 3, 1, 0; 2017 QM_{18}, 3, 1, 0; 2017 QB_{33}, 3, 1, 0; 2017 QO_{33}, 2, 1, 0; 2017 QK_{35}, 3, 1, 0; 2017 QQ_{35}, 3, 1, 0; 2017 RX_1, 3, 1, 0; 2017 RH_2, 2, 1, 0; *[181, 59, 0*, 2010/12/01–2017/09/13]*

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/5.6 astrograph + CCD
UCAC-4
1989 UP, 12, 2, 4; 2004 MA_7, 30, 5, 12; 2004 RE_{84}, 12, 2, 6; 2004 SS, 6, 1, 0; 2004 TQ_{13}, 10, 2, 2; 2006 KA_{40}, 6, 1, 0; 2009 BF, 12, 2, 5; 2011 ED_{78}, 6, 1, 0; 2011 NP, 18, 3, 5; 2013 TH_5, 4, 1, 0; 2014 CD_{13}, 12, 2, 2; 2014 SR_{339}, 24, 4, 7; 2014 YC_{15}, 42, 7, 65; 2015 FO_{124}, 11, 2, 3; 2015 KN_{120}, 6, 1, 0; 2016 AA_9, 16, 3, 6; 2016 CL_{32}, 6, 1, 0; 2016 ND_{21}, 35, 7, 65; 2017 BS_5, 28, 3, 5; 2017 BM_{31}, 40, 6, 12; 2017 CS, 30, 5, 10; 2017 FJ_{90}, 6, 1, 0; 2017 GQ_6, 20, 3, 7; 2017 KR_{34}, 6, 1, 0; 2017 MY_2, 6, 1, 0; 2017 MY_3, 18, 3, 6; 2017 MW_4, 7, 2, 7; 2017 MZ_4, 5, 1, 0; 2017 MQ_8, 6, 1, 0; 2017 MU_8, 4, 1, 0; 2017 NJ, 34, 5, 10; 2017 NS_5, 18, 2, 3; 2017 NM_6, 38, 5, 12; 2017 OD_1, 6, 1, 0; 2017 OL_1, 33, 3, 5; 2017 OH_7, 8, 1, 0; 2017 OP_{68}, 18, 3, 6; 2017 PR_{25}, 16, 2, 4; 2017 PS_{25}, 12, 2, 4; 2017 PJ_{26}, 19, 3, 6; 2017 PL_{26}, 10, 1, 0; 2017 QV_{34}, 12, 2, 4; 2017 QL_{35}, 12, 2, 4; 2017 RK_1, 6, 1, 0; 2017 RU_1, 6, 1, 0; 2017 RV_1, 18, 3, 6; 2017 RV_2, 5, 1, 0; 2017 RR_{15}, 6, 1, 0; 2017 RY_{15}, 5, 1, 0; 2017 SN_2, 12, 2, 4; (3122), 6, 1, 0; (6063), 6, 1, 0; (11398), 17, 3, 7; (12538), 6, 1, 0; (20460), 6, 1, 0; (66391), 6, 1, 0; (68348), 5, 1, 0; (68950), 18, 3, 10; (88254), 6, 1, 0; (90075), 6, 1, 0; (102528), 6, 1, 0; (106589), 14, 3, 7; (138846), 12, 2, 2; (138925), 18, 3, 10; (142040), 12, 2, 5; (142561), 24, 4, 10; (190166), 24, 4, 12; (294739), 24, 4, 10; (366733), 6, 1, 0; (422699), 12, 2, 7; (457175), 13, 4, 9; (494975), 6, 1, 0; (495331), 6, 1, 0; (495848), 5, 1, 0; (496005), 8, 1, 0; (496018), 24, 4, 10; *[1034, 76, 0*, 2017/07/18–2017/09/26]*

H47 Vicksburg
C. Bell, 107 Judson Circle, Vicksburg, MS 39180, U.S.A. [charbell@bellsouth.net]
0.3-m Schmidt-Cassegrain + CCD
Gaia-DR1
(2036), 8, 2, 2; (23059), 2, 1, 0; (83114), 2, 1, 0; (89522), 4, 1, 0; (164744), 2, 1, 0; (295648), 2, 1, 0; (457175), 3, 1, 0; *[23, 7, 0*, 2017/07/30–2017/09/24]*

H55 Astronomical Research Observatory, Charleston
R. Holmes, 7616 NCR 1800E, Charleston, IL 61920, U.S.A. [ari@mchsi.com]
0.81-m f/4 astrograph + CCD, 0.61-m f/4 astrograph + CCD
USNO-A2.0
2007 EH_{50}, 3, 1, 0; 2015 CC_{15}, 4, 1, 0; *[7, 2, 0*, 2008/08/02–2008/08/08]*

I03 European Southern Obs., La Silla-ASTROVIRTEL
C. Barbieri, Astronomical Observatory and Dept. of Astronomy of the University of Padova, Vicolo Osservatorio 5, I-35122 Padova, Italy [barbieri@pd.astro.it] (1)
2008 TZ_{107}, 3, 1, 0; 2013 YE_{55}, 3, 1, 0; *[6, 2, 0*, 2000/11/25–2004/02/17]*

I11 Gemini South Observatory, Cerro Pachon
J. Masiero, no details supplied (4)
Observers J. Masiero, L. Magill, À. López, A. Shugart, P. Candia, J. Fuentes, H. H. Hsieh, J. Chavez, K. Silva
Measurers J. Masiero, M. Micheli
8.0-m reflector
Gaia-DR1, PPMXL
2017 KC_{34}, 4, 1, 0; 2017 MD_9, 8, 2, 21; 2017 OP_{68}, 8, 1, 0; *[20, 3, 0*, 2016/06/14–2017/07/27]*

I15 Wishing Star Observatory, Barrington
H. G. Peterson, 405 New Meadow Road, Barrington, RI 02806, U.S.A. [pete@petersonengineering.com]
Observer H. G. Peterson
Measurers H. G. Peterson, A. Portanova
0.35-m f/10 Schmidt-Cassegrain + CCD + f/5.87 focal reducer
UCAC-4
2004 MA_7, 3, 1, 0; 2011 ED_{78}, 3, 1, 0; 2017 BM_{31}, 3, 1, 0; 2017 KR_{34}, 3, 1, 0; 2017 NH, 6, 2, 6; 2017 NM_6, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 PR_{25}, 3, 1, 0; 2017 RV_1, 3, 1, 0; (1980), 3, 1, 0; (2329), 9, 3, 7; (3122), 6, 2, 11; (11398), 6, 2, 6; (12538), 3, 1, 0; (31498), 3, 1, 0; (66391), 3, 1, 0; (90075), 3, 1, 0; (102528), 3, 1, 0; (133872), 3, 1, 0; (153415), 9, 3, 18; (456651), 2, 1, 0; (495848), 3, 1, 0; (496005), 3, 1, 0; *[89, 23, 0*, 2017/07/10–2017/09/16]*

I16 IAA-AI Atacama, San Pedro de Atacama
J. L. Ortiz, Instituto de Astrofisica de Andalucia, P. O. Box 3004, E-18080 Granada, Spain [ortiz@iaa.es]
Observers J. L. Ortiz, N. Morales, I. de la Cueva, A. Maury
Measurer N. Morales, J. L. Ortiz
0.4-m f/3.6 reflector + CCD
UCAC-2
2015 RO_8, 4, 1, 0; 2017 DL_{120}, 4, 1, 0; *[8, 2, 0*, 2015/07/18–2015/08/18]*

I17 Thomas G. Cupillari Observatory, Fleetville
J. D. Sabia, 1112 Fairview Road, South Abington Township, PA 18411, U.S.A. [sabiajohn@aol.com]
0.5-m f/8.1 Ritchey-Chrétien + CCD
CMC-15, UCAC-4
2015 PN_{291}, 2, 1, 0; (137799), 7, 1, 0; *[9, 2, 0*, 2017/08/24–2017/08/26]*

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
1989 VB, 3, 1, 0; 2017 RV_1, 3, 1, 0; 2017 SN_2, 3, 1, 0; 2017 SD_{12}, 6, 2, 1; *[15, 4, 0∗, 2017/09/13–2017/09/24]*

I40 La Silla–TRAPPIST
E. Jehin, Liège University, 17 Allee du 6 Aout, 4000 Liège, Belgium [ejehin@ulg.ac.be]
Observers E. Jehin, J. Manfroid, M. Gillon, D. Hutsemekers, P. Magain
Measurers J. Manfroid, E. Jehin
0.60-m $f/8.0$ reflector + CCD
2MASS
2015 CN_5, 10, 2, 2; *[10, 1, 0∗, 2011/03/07–2011/03/09]*

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]
Measurer A. Mimeev
1.2-m Oschin Schmidt + CCD
UCAC-2
2000 YQ_{16}, 6, 2, 60; 2003 UA_3, 3, 1, 0; 2005 UX_{97}, 22, 1, 0; 2006 YV_{43}, 2, 1, 0; 2009 KQ_{21}, 4, 1, 0; 2009 SX_{45}, 5, 2, 1; 2010 AA_4, 6, 2, 2; 2010 TE_{19}, 3, 1, 0; 2011 QD_{57}, 4, 1, 0; 2011 SX_{21}, 3, 1, 0; 2012 CW_{57}, 3, 1, 0; 2012 EQ_{18}, 5, 2, 2; 2012 PN_{44}, 5, 2, 2; 2013 CV_{223}, 3, 1, 0; 2013 EW_{154}, 3, 1, 0; 2013 RA_{99}, 3, 1, 0; 2013 TR_{159}, 3, 1, 0; 2013 TE_{160}, 3, 1, 0; 2013 UU_{15}, 2, 1, 0; 2013 YG_{20}, 6, 1, 0; 2013 YJ_{38}, 3, 1, 0; 2014 SZ_{323}, 8, 2, 1; 2014 XZ_{39}, 3, 1, 0; 2015 AZ_{281}, 10, 2, 1; 2015 BK_{310}, 3, 1, 0; 2015 BD_{356}, 7, 1, 0; 2015 BC_{520}, 3, 1, 0; 2015 BZ_{520}, 8, 1, 0; 2015 CQ_{20}, 3, 1, 0; 2015 CF_{34}, 6, 1, 0; 2015 DS_{24}, 2, 1, 0; 2015 DA_{98}, 10, 1, 0; 2015 DX_{156}, 3, 1, 0; 2015 DL_{196}, 3, 1, 0; 2015 EO_{25}, 4, 1, 0; 2015 FP_3, 19, 2, 7; 2015 FL_{343}, 2, 1, 0; 2015 HX_2, 2, 1, 0; 2015 HV_{183}, 3, 1, 0; 2015 MM_{131}, 3, 1, 0; 2015 PM_{312} ∗, 5, 1, 0; 2016 CO_{268}, 6, 2, 1169; 2016 EH_{200}, 3, 1, 0; 2016 FH_{52}, 3, 1, 0; 2016 GC_{238}, 4, 1, 0; 2016 GQ_{252}, 3, 1, 0; 2016 GB_{253}, 3, 1, 0; 2016 RR_{42}, 4, 1, 0; 2016 SN_9, 3, 1, 0; 2016 SR_{22}, 11, 1, 0; 2016 SW_{23}, 11, 1, 0; 2016 TP_{26}, 3, 1, 0; 2016 TR_{59}, 11, 1, 0; 2016 TE_{61}, 5, 1, 0; 2017 NR_2, 10, 3, 32; 2017 PC_{29}, 9, 1, 0; *[293, 56, 1∗, 2010/02/13–2016/10/10]*

I43 Tarleton State University Observatory, Stephenville
M. Hibbs, Box T-0885, Stephenville, TX 76402, U.S.A. [tsu.obs@gmail.com]
Observer M. Hibbs
Measurer T. Vorobjov
0.81-m $f/8$ Ritchey-Chrétien + CCD
PPMXL
2015 DM_{207}, 3, 1, 0; (137032), 5, 1, 0; *[8, 2, 0∗, 2011/07/29–2014/10/19]*

I47 Pierre Auger Observatory, Malargüe
M. Mašek, Zitna 683, Liberec 6, 46006, Liberec 6 [cassi@astronomie.cz]
Observers M. Masek, M. Tylsar, V. Dienstbier
0.3-m $f/10$ reflector + CCD
UCAC-4
2017 NN_6, 11, 2, 1; (2177), 6, 1, 0; (7929), 49, 3, 3; (9841), 79, 6, 70; (20200), 6, 1, 0; (29874), 14, 1, 0; (45257), 3, 1, 0; (57515), 9, 1, 0; (65351), 9, 1, 0; (82683), 6, 1, 0; (130215), 16, 3, 4; (457175), 3, 1, 0; *[211, 12, 0∗, 2017/07/15–2017/09/25]*

I52 Steward Observatory, Mt. Lemmon Station
E. Christensen, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A. eric@lpl.arizona.edu]
Observers R. G. Matheny, R. A. Kowalski, J. A. Johnson, G. J. Leonard, D. C. Fuls
Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly
1.0-m reflector + CCD
UCAC-4
1999 TJ_{12}, 4, 1, 0; 2001 US_{224}, 4, 1, 0; 2004 BX_{163}, 4, 1, 0; 2004 GK_{85}, 4, 1, 0; 2004 RD_{24}, 4, 1, 0; 2004 RE_{84}, 4, 1, 0; 2004 YV_{18}, 7, 2, 1; 2005 SK_{110}, 10, 2, 2; 2006 DJ_{125}, 4, 1, 0; 2006 KL_{52}, 4, 1, 0; 2006 RQ_{67}, 3, 1, 0; 2006 SH_{215}, 4, 1, 0; 2007 ES_{225}, 2, 1, 0; 2007 WF_{31}, 4, 1, 0; 2008 UF_{314}, 4, 1, 0; 2009 BZ_9, 3, 1, 0; 2009 YJ_{14}, 4, 1, 0; 2011 AN_{45}, 4, 1, 0; 2011 BF_{53}, 8, 1, 0; 2011 HC_8, 4, 1, 0; 2011 YJ_{75}, 8, 1, 0; 2012 EN_{18}, 3, 1, 0; 2012 VF_{82}, 4, 1, 0; 2012 XB_{134}, 4, 1, 0; 2013 HL_{56}, 4, 1, 0; 2013 NB_3, 4, 1, 0; 2013 QS_{10}, 4, 1, 0; 2013 RP_{40}, 4, 1, 0; 2013 TU_{89}, 3, 1, 0; 2013 YG_{20}, 3, 1, 0; 2014 CD_{13}, 4, 1, 0; 2014 CY_{22}, 4, 1, 0; 2014 WK_{202}, 4, 1, 0; 2014 YD_5, 4, 1, 0; 2015 AN_{266}, 3, 1, 0; 2015 BA_{258}, 4, 1, 0; 2015 BH_{274}, 4, 1, 0; 2015 BP_{433}, 10, 3, 3; 2015 DO_{117}, 4, 1, 0; 2015 FG_{144}, 4, 1, 0; 2015 FA_{319}, 4, 1, 0; 2015 FB_{372}, 4, 1, 0; 2015 FU_{393}, 4, 1, 0; 2015 GK_{43}, 4, 1, 0; 2015 GD_{51}, 4, 1, 0; 2015 HL_{183}, 4, 1, 0; 2015 KS_{130}, 4, 1, 0; 2015 SE_{22}, 4, 1, 0; 2015 XL_{207}, 4, 1, 0; 2015 XF_{388} ∗, 3, 1, 0; 2015 YA_4, 4, 1, 0; 2016 AM_{195}, 3, 1, 0; 2016 BA_{21}, 4, 1, 0; 2016 CE_{268}, 4, 1, 0; 2016 CR_{268}, 4, 1, 0; 2016 DQ_{31}, 4, 1, 0; 2016 GC_{106}, 3, 1, 0; 2016 UG_{41}, 4, 1, 0; 2016 WE_8, 2, 1, 0; 2017 FH_{90}, 4, 1, 0; 2017 HS, 3, 1, 0; 2017 HN_3, 3, 1, 0; 2017 MC_5, 4, 1, 0; 2017 MK_8, 4, 1, 0; 2017 MQ_8, 2, 1, 0; 2017 NM, 4, 1, 0; 2017 NK_2, 8, 2, 1; 2017 NB_7, 11, 3, 74; 2017 OH_2, 4, 1, 0; 2017 OF_{10}, 4, 1, 0; 2017 OD_{20}, 8, 2, 8; 2017 OV_{48}, 4, 1, 0; 2017 OV_{68}, 3, 1, 0; 2017 PF, 3, 1, 0; 2017 PT_{25}, 4, 1, 0; 2017 PU_{25}, 6, 2, 7; 2017 PN_{26}, 3, 1, 0; 2017 PA_{27}, 4, 1, 0; 2017 PB_{27}, 3, 1, 0; 2017 QG, 4, 1, 0; 2017 QO_2, 7, 2, 11; 2017 QM_{16}, 4, 1, 0; 2017 QP_{17}, 3, 1, 0; 2017 QV_{17}, 3, 1, 0; 2017 QX_{17}, 4, 1, 0; 2017 QB_{18}, 4, 1, 0; 2017 QE_{18}, 8, 2, 21; 2017 QG_{18}, 3, 1, 0; 2017 QH_{18}, 4, 1, 0; 2017 QJ_{18}, 7, 2, 16; 2017 QK_{18}, 3, 1, 0; 2017 QL_{18}, 4, 1, 0; 2017 QM_{32}, 7, 2, 1; 2017 QN_{32}, 8, 2, 1; 2017 QQ_{32}, 3, 1, 0; 2017 QR_{32}, 3, 1, 0; 2017 QS_{32}, 8, 2, 16; 2017 QT_{32}, 4, 1, 0; 2017 QU_{32}, 4, 1, 0; 2017 QV_{32}, 3, 1, 0; 2017 QW_{32}, 4, 1, 0; 2017 QB_{33}, 7, 2, 1; 2017 QC_{33}, 3, 1, 0; 2017 QD_{33}, 3, 1, 0; 2017 QL_{33}, 9, 3, 24; 2017 QM_{33}, 4, 1, 0; 2017 QN_{33}, 11, 3, 16; 2017 QP_{33}, 11, 3, 25; 2017 QT_{33}, 7, 1, 0; 2017 QU_{33}, 13, 3, 14; 2017 QV_{33}, 4, 1, 0; 2017 QV_{34}, 2, 1, 0; 2017 QY_{34}, 14, 4, 28; 2017 QZ_{34}, 7, 2, 1; 2017 QA_{35}, 4, 1, 0; 2017 QD_{35}, 3, 1, 0; 2017 QE_{35}, 4, 1, 0; 2017 QF_{35}, 3, 1, 0; 2017 QL_{35}, 3, 1, 0; 2017 QM_{35}, 3, 1, 0; 2017 QN_{35}, 4, 1, 0; 2017 QO_{35}, 2, 1, 0; 2017 QR_{35}, 4, 1, 0; 2017 QT_{35}, 4, 1, 0; 2017 QX_{35}, 8, 2, 11; 2017 QP_{36}, 3, 1, 0; 2017 RD, 11, 3, 2; 2017 RU, 4, 1, 0; 2017 RL_1, 3, 1, 0; 2017 RM_1, 8, 2, 7; 2017 RT_1, 8, 2, 17; 2017 RU_1, 8, 2, 6; 2017 RV_1, 4, 1, 0; 2017 RW_1, 4, 1, 0; 2017 RX_1, 16, 4, 9; 2017 RY_1, 7, 2, 1; 2017 RB_2, 8, 2, 1; 2017 RC_2, 4, 1, 0; 2017 RE_2, 4, 1, 0; 2017 RF_2, 4, 1, 0; 2017 RG_2, 4, 1, 0; 2017 RK_2, 7, 2, 1; 2017 RL_2, 14, 3, 4; 2017 RO_2, 11, 3, 10; 2017 RP_2, 8, 2, 8; 2017 RQ_2, 4, 1, 0; 2017 RS_2, 19, 5, 15; 2017 RV_2, 4, 1, 0; 2017 RW_2, 12, 3, 4; 2017 RX_2, 4, 1, 0; 2017 RH_{14}, 4, 1, 0; 2017 RK_{14}, 11, 3, 4; 2017 RO_{14}, 2, 1, 0; 2017 RU_{14}, 4, 1, 0; 2017 RZ_{14}, 4, 1, 0; 2017 RB_{15}, 7, 2, 2; 2017 RC_{15}, 4, 1, 0; 2017 RE_{15}, 8, 2, 2; 2017 RG_{15}, 7, 2, 3; 2017 RH_{15}, 4, 1, 0; 2017 RL_{15}, 15, 4, 13; 2017 RN_{15}, 7, 1, 0; 2017 RP_{15}, 8, 2, 6; 2017 RQ_{15}, 7, 2, 1; 2017 RR_{15}, 4, 1, 0; 2017 RS_{15}, 3, 1, 0; 2017 RU_{15}, 19, 5, 8; 2017 RV_{15}, 15, 4, 7; 2017 RW_{15}, 4, 1, 0; 2017 RX_{15}, 16, 4, 7; 2017 RY_{15}, 7, 2, 4; 2017 RA_{16}, 7, 2, 1; 2017 RM_{16}, 4, 1, 0; 2017 RO_{16}, 7, 2, 2; 2017 RR_{16}, 4, 1, 0; 2017 SO_1, 4, 1, 0; 2017 SP_1, 3, 1, 0; 2017 SS_1, 4, 1, 0; 2017 SB_2, 6, 2, 1; 2017 SD_2, 4, 1, 0; 2017 SJ_2, 6, 2, 4; 2017 SK_2, 4, 1, 0; 2017 SL_2, 4, 1, 0; 2017 SM_2, 8, 2, 1; 2017 SN_2, 4, 1, 0; 2017 SO_2, 4, 1, 0; 2017 SP_2, 12, 3, 4; 2017 SQ_2, 4, 1, 0; 2017 SR_2, 4, 1, 0; 2017 SU_2, 4, 1, 0; 2017 SV_2, 3, 1, 0; 2017 SG_{10}, 8, 2, 8; 2017 SH_{10}, 12, 3, 4; 2017 SJ_{10}, 4, 1, 0; 2017 SK_{10}, 8, 2, 5; 2017 SM_{10}, 3, 1, 0; 2017 SN_{10}, 7, 2, 4; 2017 SO_{10}, 8, 2, 6; 2017 SP_{10}, 11, 3, 8; 2017 SQ_{10}, 12, 3, 8; 2017 SR_{10}, 3, 1, 0; 2017 SS_{10}, 3, 1, 0; 2017 SB_{11}, 11, 3, 3; 2017 SE_{11}, 8, 2, 1; 2017 SF_{11}, 4, 1, 0; 2017 SM_{11}, 4, 1, 0; 2017 SQ_{11}, 3, 1, 0; 2017 SS_{11}, 8, 2, 1; 2017 SU_{11}, 7, 2, 1; 2017 SV_{11}, 11, 3, 4; 2017 SW_{11}, 7, 2, 1; 2017 SX_{11}, 7, 2, 3; 2017 SY_{11}, 3, 1, 0; 2017 SZ_{11}, 7, 2, 3; 2017 SA_{12}, 3, 1, 0; 2017 SD_{12}, 12, 3, 8; 2017 SF_{12}, 4, 1, 0; 2017 SJ_{12}, 8, 2, 1; 2017 SK_{12}, 7, 2, 5; 2017 SM_{12}, 12, 3, 4; 2017 SN_{12}, 4, 1, 0; 2017 SQ_{12}, 14, 3, 4; 2017 SS_{12}, 11, 3, 3; 2017 SY_{12}, 6, 2, 1; 2017 SZ_{12}, 7, 2, 1; 2017 SA_{13}, 12, 3, 2; 2017 SB_{13}, 3, 1, 0; 2017 SC_{13}, 8, 2, 1; 2017 SD_{13}, 12, 3, 2; 2017 SE_{13}, 7, 2, 1; 2017 SG_{13}, 8, 2, 1; 2017 SH_{13}, 4, 1, 0; 2017 SJ_{13}, 8, 2, 1; 2017 SK_{13}, 4, 1, 0; 2017 SM_{13}, 19, 3, 3; 2017 SN_{13}, 4, 1, 0; 2017 ST_{13}, 7, 2, 1; 2017 SU_{13}, 4, 1, 0; 2017 SV_{13}, 7, 2, 4; 2017 SG_{14}, 3, 1, 0; 2017 SN_{14}, 12, 2, 3; 2017 SO_{14}, 11, 3, 2; 2017 SP_{14}, 14, 4, 3; 2017 SQ_{14}, 15, 4, 5; 2017 SR_{14}, 12, 3, 2; 2017 SS_{14}, 10, 3, 2; 2017 ST_{14}, 15, 4, 3; 2017 SU_{14}, 17, 5, 6; 2017 SV_{14}, 8, 2, 3; 2017 SW_{14}, 15, 4, 3; 2017 SG_{16}, 15, 4, 3; 2017 SH_{16}, 20, 5, 6; 2017 SJ_{16}, 10, 3, 3; 2017 SK_{16}, 15, 4, 3; 2017 SL_{16}, 13, 4, 6; 2017 SM_{16}, 16, 5, 6; 2017 SN_{16}, 19, 4, 5; 2017 SO_{16}, 7, 2, 1; 2017 SP_{16}, 10, 3, 2; 2017 SQ_{16}, 8, 2, 1; 2017 SR_{16}, 11, 3, 4; 2017 SS_{16}, 4, 1, 0; 2017 ST_{16}, 3, 1, 0; 2017 SU_{16}, 11, 3, 3; 2017 SV_{16}, 3, 1, 0; 2017 SZ_{16}, 4, 1, 0; 2017 SB_{17}, 4, 1, 0; 2017 SC_{17}, 11, 3, 2; 2017 SD_{17}, 12, 3, 2; 2017 SJ_{17}, 5, 2, 1; 2017 SO_{17}, 15, 4, 3; 2017 SP_{17}, 4, 1, 0; 2017 SR_{17}, 4, 1, 0; 2017 SS_{17}, 11, 3, 2; 2017 SU_{17}, 11, 3, 3; 2017 SC_{18}, 3, 1, 0; 2017 SH_{18}, 7, 2, 1; 2017 SJ_{18}, 4, 1, 0; 2017 ST_{18}, 3, 1, 0; 2017 SY_{18}, 7, 2, 2; 2017 SZ_{18}, 3, 1, 0; 2017 SA_{19}, 11, 3, 2; 2017 SC_{19}, 8, 1, 0; 2017 SP_{19}, 3, 1, 0; 2017 SS_{19}, 14, 4, 4; 2017 SV_{19}, 8, 2, 2; 2017 SW_{19}, 7, 2, 3; 2017 SX_{19}, 11, 3, 3; 2017 SY_{19}, 11, 3, 3; 2017 SZ_{19}, 7, 2, 3; 2017 SA_{20}, 10, 3, 3; 2017 SB_{20}, 4, 1, 0; 2017 SC_{20}, 20, 3, 2; 2017 SD_{20}, 11, 3, 2; 2017 SE_{20}, 2, 1, 0; 2017 SF_{20}, 7, 2, 2; 2017 SG_{20}, 8, 2, 2; 2017 SK_{20}, 3, 1, 0; 2017 SW_{20}, 4, 1, 0; 2017 SX_{20}, 8, 2, 2; 2017 SY_{20},

7, 2, 1; 2017 SZ_{20}, 8, 2, 1; (462), 3, 1, 0; (763), 4, 1, 0; (2167), 4, 1, 0; (3885), 7, 2, 2; (3978), 4, 1, 0; (5232), 4, 1, 0; (5636), 4, 1, 0; (8792), 4, 1, 0; (9552), 4, 1, 0; (11753), 11, 3, 2; (11756), 4, 1, 0; (12020), 4, 1, 0; (12463), 4, 1, 0; (12683), 4, 1, 0; (13315), 3, 1, 0; (14103), 4, 1, 0; (16009), 4, 1, 0; (17008), 4, 1, 0; (17368), 4, 1, 0; (17439), 4, 1, 0; (17969), 4, 1, 0; (18558), 3, 1, 0; (19433), 4, 1, 0; (19852), 4, 1, 0; (20266), 4, 1, 0; (20416), 4, 1, 0; (24384), 4, 1, 0; (26749), 4, 1, 0; (28005), 4, 1, 0; (28037), 12, 3, 4; (28303), 2, 1, 0; (32466), 4, 1, 0; (32733), 11, 3, 3; (34982), 4, 1, 0; (35883), 4, 1, 0; (36032), 8, 2, 2; (37610), 4, 1, 0; (39663), 3, 1, 0; (41712), 4, 1, 0; (43388), 4, 1, 0; (44743), 15, 4, 5; (44932), 3, 1, 0; (45816), 12, 3, 2; (46334), 8, 1, 0; (46825), 4, 1, 0; (47276), 4, 1, 0; (48910), 3, 1, 0; (48956), 3, 1, 0; (49124), 4, 1, 0; (51934), 4, 1, 0; (52536), 4, 1, 0; (53254), 4, 1, 0; (53926), 4, 1, 0; (54669), 4, 1, 0; (55512), 4, 1, 0; (56920), 4, 1, 0; (57600), 3, 1, 0; (57738), 4, 1, 0; (58509), 7, 2, 1; (61095), 3, 1, 0; (61689), 4, 1, 0; (62646), 4, 1, 0; (64545), 3, 1, 0; (66751), 4, 1, 0; (67602), 4, 1, 0; (67959), 4, 1, 0; (69151), 4, 1, 0; (70306), 4, 1, 0; (72345), 4, 1, 0; (75170), 4, 1, 0; (75506), 4, 1, 0; (77015), 3, 1, 0; (80988), 3, 1, 0; (81768), 3, 1, 0; (81962), 4, 1, 0; (83621), 3, 1, 0; (84993), 4, 1, 0; (85586), 3, 1, 0; (86545), 3, 1, 0; (87547), 3, 1, 0; (89045), 4, 1, 0; (89415), 4, 1, 0; (89652), 7, 2, 2; (90702), 3, 1, 0; (91541), 4, 1, 0; (93037), 4, 1, 0; (99041), 4, 1, 0; (103295), 7, 1, 0; (106183), 4, 1, 0; (108771), 4, 1, 0; (109465), 3, 1, 0; (109703), 4, 1, 0; (109763), 4, 1, 0; (113021), 4, 1, 0; (115482), 3, 1, 0; (118261), 3, 1, 0; (119460), 12, 3, 2; (119764), 4, 1, 0; (120511), 4, 1, 0; (126141), 4, 1, 0; (127361), 3, 1, 0; (129740), 4, 1, 0; (131868), 3, 1, 0; (135716), 4, 1, 0; (138273), 4, 1, 0; (140247), 4, 1, 0; (140548), 4, 1, 0; (140795), 4, 1, 0; (142189), 4, 1, 0; (142226), 4, 1, 0; (143356), 3, 1, 0; (144694), 4, 1, 0; (145294), 4, 1, 0; (153650), 4, 1, 0; (154541), 3, 1, 0; (156533), 4, 1, 0; (156996), 4, 1, 0; (159089), 3, 1, 0; (159131), 4, 1, 0; (160341), 4, 1, 0; (163662), 8, 1, 0; (167475), 4, 1, 0; (168785), 3, 1, 0; (169360), 4, 1, 0; (169388), 3, 1, 0; (169479), 4, 1, 0; (171741), 3, 1, 0; (174822), 3, 1, 0; (175508), 8, 1, 0; (176266), 4, 1, 0; (177982), 3, 1, 0; (181050), 3, 1, 0; (184267), 8, 2, 1; (185858), 2, 1, 0; (188683), 4, 1, 0; (190366), 4, 1, 0; (190680), 4, 1, 0; (198476), 4, 1, 0; (198698), 4, 1, 0; (200152), 4, 1, 0; (201259), 4, 1, 0; (208386), 4, 1, 0; (208420), 3, 1, 0; (212380), 7, 2, 1; (217844), 4, 1, 0; (219564), 3, 1, 0; (222441), 4, 1, 0; (228525), 4, 1, 0; (231764), 3, 1, 0; (232605), 4, 1, 0; (233879), 4, 1, 0; (233935), 4, 1, 0; (235425), 3, 1, 0; (238762), 4, 1, 0; (239625), 4, 1, 0; (241677), 3, 1, 0; (243775), 4, 1, 0; (245122), 4, 1, 0; (245983), 4, 1, 0; (249449), 8, 2, 2; (250363), 4, 1, 0; (252184), 4, 1, 0; (255580), 4, 1, 0; (266788), 4, 1, 0; (268086), 3, 1, 0; (270580), 4, 1, 0; (274542), 4, 1, 0; (274740), 4, 1, 0; (277503), 3, 1, 0; (277771), 4, 1, 0; (280179), 4, 1, 0; (281354), 3, 1, 0; (283570), 9, 3, 2; (284370), 8, 2, 1; (286036), 4, 1, 0; (287860), 3, 1, 0; (289140), 8, 1, 0; (292443), 3, 1, 0; (292564), 4, 1, 0; (292814), 3, 1, 0; (294658), 12, 3, 3; (296278), 7, 2, 4; (296421), 4, 1, 0; (299736), 11, 2, 1; (300154), 4, 1, 0; (300937), 5, 2, 3; (307054), 4, 1, 0; (307162), 8, 2, 2; (307974), 4, 1, 0; (310143), 3, 1, 0; (315263), 4, 1, 0; (315292), 1, 1, 0; (317389), 4, 1, 0; (325950), 3, 1, 0; (327813), 4, 1, 0; (328066), 3, 1, 0; (328220), 6, 2, 1; (329854), 4, 1, 0; (336278), 3, 1, 0; (337621), 4, 1, 0; (337836), 3, 1, 0; (341348), 4, 1, 0; (341685), 3, 1, 0; (342893), 4, 1, 0; (344281), 8, 2, 1; (348864), 4, 1, 0; (350028), 4, 1, 0; (350380), 4, 1, 0; (361562), 4, 1, 0; (361642), 3, 1, 0; (362325), 11, 3, 3; (362840), 8, 2, 1; (364593), 6, 1, 0; (369755), 4, 1, 0; (372562), 4, 1, 0; (373550), 4, 1, 0; (374517), 4, 1, 0; (375283), 3, 1, 0; (376813), 4, 1, 0; (376929), 3, 1, 0; (379693), 3, 1, 0; (380196), 3, 1, 0; (381438), 8, 2, 1; (384169), 4, 1, 0; (385055), 6, 2, 1; (414028), 3, 1, 0; (418001), 4, 1, 0; (423634), 3, 1, 0; (423662), 4, 1, 0; (426536), 4, 1, 0; (427536), 3, 1, 0; (429054), 3, 1, 0; (429409), 3, 1, 0; (431948), 8, 1, 0; (432011), 12, 2, 2; (433537), 3, 1, 0; (461507), 3, 1, 0; (470363), 4, 1, 0; (471956), 4, 1, 0; (496032), 4, 1, 0; *[3001, 542, 1∗, 2015/03/17–2017/09/30]*

I66 Taurus Australis Observatory, Brasilia

M. B. Sparrenberger, SQSW103 Bl. G ap. 201, Brasilia, Brazil [macielbassp@gmail.com]

0.32-m $f/4.7$ reflector + CCD

PPMXL

(1738), 18, 1, 0; (6283), 2, 1, 0; (7454), 2, 1, 0; (39501), 2, 1, 0; (135479), 2, 1, 0; (327336), 2, 1, 0; *[28, 6, 0∗, 2017/08/04–2017/09/17]*

I72 Observatorio Carpe-Noctem, Madrid

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

0.3-m $f/8$ Ritchey-Chrétien + CCD + $f/5.4$ focal reducer

CMC-15

(3122), 6, 2, 1; *[6, 1, 0∗, 2017/09/01]*

I81 Tarbatness Observatory, Portmahomack

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

0.35-m Schmidt-Cassegrain + CCD + $f/6$ focal reducer, 0.30-m $f/4$ Newtonian reflector + CCD

UCAC-4

(60558), 6, 2, 19; *[6, 1, 0∗, 2017/09/03–2017/09/22]*

I88 Fuensanta de Martos

J. Carrillo, 22 Crta de los Martos, Fuensanta de Martos, E-23610 Jaén, Spain [jcgmilla@gmail.com]

0.36-m $f/5$ reflector + CCD

USNO-A2.0

(87726), 3, 1, 0; *[3, 1, 0∗, 2017/08/16]*

I89 iTelescope Observatory, Nerpio

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

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

Observers S. M. Tilley, V. Grossi, M. Suzuki, B. Lütkenhöner, E. Bryssinck

0.43-m $f/6.8$ reflector + CCD, 0.32-m $f/8.0$ reflector + CCD, 0.15-m $f/7.3$ refractor + CCD

UCAC-4, CMC-15

{16} 2017 MB_1, 6, 2, 1; 2017 NN_2, 3, 1, 0; 2017 NM_6, 11, 2, 1; 2017 OD_1, 3, 1, 0; 2017 OR_{19}, 3, 1, 0; 2017 RL, 3, 1, 0; *[29, 6, 0∗, 2017/07/12–2017/09/08]*

{4} 2017 NM_6, 3, 1, 0; 2017 OM_1, 2, 1, 0; 2017 RX_1, 3, 1, 0; *[8, 3, 0∗, 2017/07/15–2017/09/13]*

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

2017 NM_6, 3, 1, 0; 2017 NT_6, 2, 1, 0; 2017 OF_7, 2, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OV_{18}, 2, 1, 0; *[12, 5, 0∗, 2017/07/16–2017/07/29]*

I97 Penn Heights Observatory, Rickmansworth

I. Melville, 10 Horwood Close, Rickmansworth, Hertfordshire WD3 8RS, England [iain@mrmelville.co.uk]

0.11-m $f/7.0$ refractor + CCD

USNO-B1.0

(1364), 6, 2, 1; (1694), 6, 2, 1; (4024), 6, 2, 1; (14647), 6, 2, 1; (30575), 13, 2, 1; (73124), 13, 2, 1; *[50, 6, 0∗, 2010/02/11–2010/02/20]*

J04 ESA Optical Ground Station, Tenerife

D. Koschny, European Space Agency ESA/ESTEC, Keplerlaan 1, NL-2201 AZ Noordwijk ZH, The Netherlands [Detlef.Koschny@esa.int]

Observers P. Ruiz, D. Abreu

Measurers M. Busch, A. Knöfel, D. Koschny, M. Micheli, E. Schwab, S. Shurpakov, M. Tsyhankou, M. Biesiada, H. Bill, J. Jahn, P. Geffert, G. Lehmann, F. Hormuth, J. Linder, T. Thommes, U. Carsenty, J. Rothermel, P. Schmeer, R. Reszelewski, K. Kida, C. Busch, F. Ocana, G. Wollenhaupt, R. Furgoni, C. Liefke, J. Thommes

1.0-m $f/4.4$ reflector + CCD

USNO-A2.0, Gaia-DR1, PPMXL

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(475212), 4, 1, 0; (475222), 4, 1, 0; (475261), 3, 1, 0; (475313), 3, 1, 0; (475391), 3, 1, 0; (475410), 4, 1, 0; (475494), 4, 1, 0; (475678), 2, 1, 0; (475869), 3, 1, 0; (476025), 3, 1, 0; (476095), 4, 1, 0; (476100), 4, 1, 0; (476219), 4, 1, 0; (476321), 4, 1, 0; (476346), 4, 1, 0; (476593), 4, 1, 0; (476594), 4, 1, 0; (476728), 4, 1, 0; (476899), 4, 1, 0; (476956), 4, 1, 0; (476972), 4, 1, 0; (476977), 4, 1, 0; (477178), 2, 1, 0; (477227), 2, 1, 0; (477268), 4, 1, 0; (477349), 4, 1, 0; (477388), 4, 1, 0; (477422), 2, 1, 0; (477474), 4, 1, 0; (477522), 4, 1, 0; (477742), 4, 1, 0; (477835), 4, 1, 0; (478061), 4, 1, 0; (478173), 4, 1, 0; (478412), 4, 1, 0; (478446), 2, 1, 0; (478507), 2, 1, 0; (478587), 2, 1, 0; (478664), 4, 1, 0; (478869), 4, 1, 0; (478888), 4, 1, 0; (478940), 4, 1, 0; (479016), 4, 1, 0; (479067), 3, 1, 0; (479250), 4, 1, 0; (479263), 4, 1, 0; (479284), 2, 1, 0; (479520), 4, 1, 0; (479678), 3, 1, 0; (479824), 2, 1, 0; (480437), 4, 1, 0; (480476), 4, 1, 0; (480573), 3, 1, 0; 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J08 Observatorio Zonalunar, Puzol

A. Carreño, Puzol-Alfinach (Valencia), Spain [observatorio@zonalunar.com]
Observer A. Carreño
Measurer J. Piqueras
0.20-m $f/5$ Newtonian reflector + CCD
CMC-15

2017 RV_1, 5, 1, 0; *[5, 1, 0∗, 2017/09/13]*

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
Gaia-DR1

2005 UX_{133}, 19, 1, 0; 2014 EY_{48}, 20, 1, 0; 2016 SX_8, 20, 1, 0; 2017 QF_9, 9, 1, 0; (8252), 20, 1, 0; (126366), 5, 1, 0; (145599), 20, 1, 0; (161643), 20, 1, 0; (174640), 20, 1, 0; (175792), 19, 1, 0; (175904), 11, 1, 0; (183054), 14, 1, 0; (252157), 15, 1, 0; (252213), 20, 1, 0; (259629), 17, 1, 0; (262796), 14, 1, 0; (283893), 20, 1, 0; (388296), 20, 1, 0; (410366), 11, 1, 0; (462131), 20, 1, 0; *[334, 20, 0∗, 2016/09/22–2017/09/28]*

J15 Muxagata

P. Lobao, R. da Corredoura 14, P-5150-315 Muxagata VNF, Portugal [paulobao@sapo.pt]
0.10-m $f/6.2$ refractor + CCD
UCAC-4

(3122), 3, 1, 0; *[3, 1, 0∗, 2017/08/31–2017/09/01]*

J19 El Maestrat

F. Peña C., Carretera Vistabella No. 6, Atzeneta del Maestrat, E-12132 Castellon de la plana, Spain [fepeci@ono.com]
0.20-m $f/7.0$ Schmidt-Cassegrain + CCD
USNO-A2.0

(1025), 6, 1, 0; (1656), 7, 1, 0; (10837), 6, 1, 0; (20187), 6, 1, 0; (23977), 6, 1, 0; (42811), 6, 1, 0; *[37, 6, 0∗, 2017/08/03–2017/08/04]*

J22 Tacande Observatory, La Palma

J. Genebriera, 34 Juana Morales, E-38750 El Paso, La Palma, Canary Islands, Spain [PLEIADES@telefonica.net]
Observer K. Hills
0.5-m $f/2.9$ astrograph + CCD
UCAC-4, CMC-15

2001 NJ_6, 3, 1, 0; 2004 SS, 3, 1, 0; 2008 UF_{314}, 3, 1, 0; 2017 EN, 3, 1, 0; 2017 NS_5, 3, 1, 0; 2017 PR_{24}, 3, 1, 0; 2017 PE_{25}, 3, 1, 0; 2017 PS_{25}, 3, 1, 0; 2017 QX_1, 3, 1, 0; 2017 SR_{16}, 3, 1, 0; (2060), 22, 8, 82; (3122), 5, 1, 0; (60558), 18, 8, 87; (457175), 26, 9, 70; *[101, 14, 0∗, 2017/03/03–2017/09/28]*

J27 El Guijo Observatory

A. San Segundo, 21 Onice Street, Galapagar, E-28360 Madrid, Spain [assdelgado@yahoo.es]
0.30-m $f/4$ reflector + CCD
UCAC-4, CMC

2004 RE_{84}, 3, 1, 0; 2004 SS, 3, 1, 0; 2004 TQ_{13}, 9, 3, 9; 2014 SR_{339}, 3, 1, 0; 2014 YC_{15}, 12, 4, 13; 2017 OP_{68}, 6, 2, 5; 2017 PJ_{26}, 9, 3, 4; 2017 PL_{26}, 12, 3, 2; 2017 RV_1, 3, 1, 0; 2017 SN_2, 3, 1, 0; (3122), 6, 2, 1; (7336), 3, 1, 0; (11398), 6, 2, 4; (11500), 3, 1, 0; (55408), 3, 1, 0; (68950), 15, 5, 46; (90075), 15, 5, 21; (142040), 6, 2, 9; (142464), 9, 3, 15; (142561), 9, 3, 6; (190166), 18, 6, 58; (190208), 3, 1, 0; (220909), 6, 2, 2; (265962), 18, 6, 36; (326388), 6, 2, 7; (333888), 3, 1, 0; (496018), 20, 7, 53; *[212, 27, 0∗, 2017/07/24–2017/09/28]*

J38 Observatorio La Vara, Valdés

F. García, Observatorio La Vara, Valdés, Asturias, Spain [faustino.garcia@gmail.com]
0.25-m $f/8.1$ Ritchey-Chrétien + CCD
CMC-15, USNO-A2.0

(3122), 113, 4, 19; *[113, 1, 0∗, 2017/09/01–2017/09/20]*

J41 Raheny

D. Grennan, 57 Lein Gardens, Raheny, Dublin 5, Ireland [dave@webtreatz.com]
0.35-m $f/3.8$ reflector + CCD
USNO-B1.0

2017 RX_1, 3, 1, 0; 2017 SD_{12}, 3, 1, 0; *[6, 2, 0∗, 2017/09/22–2017/09/23]*

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, UCAC-3

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(469134), 8, 2, 1; (469200), 4, 1, 0; (469205), 4, 1, 0; (469246), 8, 2, 2; (470037), 4, 1, 0; (472273), 4, 1, 0; (473049), 4, 1, 0; (473189), 4, 1, 0; (473213), 8, 2, 1; (473736), 4, 1, 0; (473962), 4, 1, 0; (474012), 4, 1, 0; (474031), 4, 1, 0; (488586), 4, 1, 0; (489117), 4, 1, 0; (489225), 4, 1, 0; (489302), 8, 2, 1; (489341), 4, 1, 0; (489369), 4, 1, 0; (489571), 4, 1, 0; (490279), 4, 1, 0; (490355), 4, 1, 0; (490397), 8, 2, 24; (490687), 4, 1, 0; (491628), 12, 3, 2; (491674), 8, 2, 1; (491719), 4, 1, 0; (494210), 4, 1, 0; (494216), 4, 1, 0; (494693), 4, 1, 0; (495838), 4, 1, 0; (495856), 4, 1, 0; (495867), 4, 1, 0; (495881), 4, 1, 0; (495883), 4, 1, 0; (495885), 8, 2, 1; (495951), 4, 1, 0; (495974), 12, 2, 1; (495995), 4, 1, 0; (496018), 16, 4, 4; (496029), 4, 1, 0; (496101), 4, 1, 0; (496120), 8, 2, 8; (496135), 8, 2, 1; (496136), 4, 1, 0; (496177), 4, 1, 0; (496262), 4, 1, 0; (496269), 4, 1, 0; (496279),

8, 2, 2; (496318), 8, 2, 17; (496384), 4, 1, 0; (496408), 4, 1, 0; (496520), 4, 1, 0; (496688), 28, 4, 3; (496752), 8, 1, 0; *[63535, 9705, 73*, 2012/02/21–2017/09/24]*

J53 Posadas
R. Benavides, Gaitan 20, E-14730 Posadas-Córdoba, Spain [Rafaelbenpal@hotmail.com]
0.28-m $f/6.3$ Schmidt-Cassegrain + CCD
CMC-15
2014 YC_{15}, 6, 1, 0; (3122), 10, 1, 0; (3259), 7, 1, 0; (3895), 3, 1, 0; (90075), 4, 1, 0; (265962), 5, 1, 0; *[35, 6, 0*, 2017/09/16–2017/09/20]*

J57 Centro Astronómico Alto Turia, Valencia
A. Flores M., C/ Profesor Blanco, 16 bajo, Aptdo correos, 2069, E-46080 Valencia, Spain [caat@astroava.org]
Observers G. Fornas, A. Fornas, L. Martin
Measurers A. Carreño, V. Mas, E. Arce, X. Tio
0.40-m $f/10$ Schmidt-Cassegrain + CCD
USNO-A2.0
2017 OF_7, 3, 1, 0; 2017 OH_7, 4, 1, 0; *[7, 2, 0*, 2017/07/27]*

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
Gaia-DR1
2017 GQ_6, 4, 1, 0; 2017 MB_1, 6, 1, 0; 2017 NH, 3, 1, 0; 2017 NS_5, 5, 1, 0; 2017 NM_6, 3, 1, 0; 2017 OD, 5, 1, 0; 2017 OL_1, 7, 2, 7; 2017 OO_1, 3, 1, 0; 2017 OT_{18}, 2, 1, 0; 2017 PT_{25}, 2, 1, 0; 2017 PV_{25}, 9, 2, 4; 2017 PJ_{26}, 4, 1, 0; 2017 PL_{26}, 7, 2, 4; 2017 QX_1, 2, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 RK_1, 2, 1, 0; 2017 RU_1, 2, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RV_2, 5, 1, 0; 2017 RV_{17}, 4, 1, 0; (3122), 14, 2, 2; (6053), 3, 1, 0; (101367), 2, 1, 0; (142561), 5, 1, 0; (143992), 4, 1, 0; (190166), 3, 1, 0; (304640), 2, 1, 0; *[114, 27, 0*, 2017/07/14–2017/09/22]*

J75 OAM Observatory, La Sagra
S. Sanchez, Observatori Astronomic de Mallorca, Camí de l'observatori s/n, E-07144 Costitx, Baleares, Spain [astroam@bitel.es]
Observers S. Sanchez, J. Nomen, M. Hurtado, J. A. Jaume, W. K. Y. Yeung, P. Rios, F. Serra
0.45-m $f/2.8$ reflector + CCD, 0.40-m $f/10$ reflector + CCD
UCAC-2
2001 YO_{162}, 3, 1, 0; 2009 TP_{30}, 3, 1, 0; 2013 TP_{78}, 3, 1, 0; 2013 TC_{99}, 3, 1, 0; 2014 TB_6, 3, 1, 0; 2014 US_{92}, 3, 1, 0; 2014 WT_{139}, 3, 1, 0; 2014 XN_3, 3, 1, 0; 2014 YL_{47}, 3, 1, 0; 2015 AS_{228}, 3, 1, 0; 2015 BC_{28}, 3, 1, 0; 2015 BR_{55}, 3, 1, 0; 2015 BW_{256}, 3, 1, 0; 2015 BB_{269}, 3, 1, 0; 2015 BC_{354}, 3, 1, 0; 2015 BL_{433}, 3, 1, 0; 2015 CX_{61}, 3, 1, 0; 2015 DC_4, 2, 1, 0; 2015 DS_{24}, 3, 1, 0; 2015 FJ_6, 3, 1, 0; 2015 KJ_{88}, 3, 1, 0; 2015 OB_3, 3, 1, 0; 2015 SX_{21}, 3, 1, 0; 2015 XD_{385}, 3, 1, 0; 2016 AR_9, 3, 1, 0; 2016 AP_{104}, 3, 1, 0; 2016 AA_{112}, 3, 1, 0; 2016 CB_{123}, 3, 1, 0; 2016 EN_{190}, 3, 1, 0; 2016 JV_{38}, 3, 1, 0; 2017 DW_{82}, 3, 1, 0; 2017 EP, 3, 1, 0; 2017 FQ_{81}, 9, 3, 20; 2017 KM_{32}, 3, 1, 0; 2017 NB_2, 3, 1, 0; 2017 OS_2, 3, 1, 0; 2017 OL_8, 3, 1, 0; 2017 OA_9, 3, 1, 0; 2017 OA_{39}, 3, 1, 0; 2017 OA_{56}, 3, 1, 0; 2017 OB_{64}, 3, 1, 0; 2017 OJ_{65}, 3, 1, 0; 2017 QJ_{35}, 3, 1, 0; (496522), 3, 1, 0; (496563), 3, 1, 0; *[140, 45, 0*, 2006/09/26–2013/12/08]*

J95 Great Shefford
P. Birtwhistle, Phlox Cottage, Wantage Road, Great Shefford, Berkshire RG17 7DA, England [peter@birtwhistle.org.uk]
0.40-m $f/6.0$ Schmidt-Cassegrain + CCD
Gaia-DR1, UCAC-4
2004 SS, 3, 1, 0; 2008 SS_{207}, 3, 1, 0; 2008 YZ_{32}, 9, 2, 1; 2017 MB_1, 3, 1, 0; 2017 NH, 4, 1, 0; 2017 NL_2, 3, 1, 0; 2017 NN_2, 3, 1, 0; 2017 NM_6, 4, 1, 0; 2017 OD, 3, 1, 0; 2017 OG_1, 2, 1, 0; 2017 OL_1, 3, 1, 0; 2017 OM_1, 9, 1, 0; 2017 OO_1, 6, 2, 1; 2017 OP_1, 3, 1, 0; 2017 OE_7, 4, 1, 0; 2017 OF_7, 3, 1, 0; 2017 OH_7, 3, 1, 0; 2017 OJ_7, 6, 2, 11; 2017 OP_{19}, 3, 1, 0; 2017 PR_{24}, 3, 1, 0; 2017 PS_{24}, 3, 1, 0; 2017 PW_{24}, 5, 2, 4; 2017 PX_{24}, 3, 1, 0; 2017 PY_{24}, 17, 6, 30; 2017 PZ_{24}, 2, 1, 0; 2017 PC_{25}, 3, 1, 0; 2017 PD_{25}, 3, 1, 0; 2017 PU_{25}, 3, 1, 0; 2017 PV_{25}, 3, 1, 0; 2017 PL_{26}, 3, 1, 0; 2017 PY_{26}, 5, 2, 4; 2017 QR_1, 3, 1, 0; 2017 QT_1, 3, 1, 0; 2017 QX_1, 3, 1, 0; 2017 QB_2, 2, 1, 0; 2017 QE_2, 3, 1, 0; 2017 QF_3, 2, 1, 0; 2017 QS_{16}, 4, 1, 0; 2017 QP_{17}, 3, 1, 0; 2017 QQ_{17}, 4, 1, 0; 2017 QE_{18}, 2, 1, 0; 2017 QF_{18}, 2, 1, 0; 2017 QG_{18}, 3, 1, 0; 2017 QM_{18}, 3, 1, 0; 2017 QN_{18}, 4, 1, 0; 2017 QO_{32}, 2, 1, 0; 2017 QV_{32}, 3, 1, 0; 2017 QP_{33}, 3, 1, 0; 2017 QU_{33}, 3, 1, 0; 2017 QV_{34}, 3, 1, 0; 2017 QY_{34}, 10, 3, 6; 2017 QZ_{34}, 3, 1, 0; 2017 QA_{35}, 3, 1, 0; 2017 QB_{35}, 6, 2, 1; 2017 QL_{35}, 6, 2, 1; 2017 QR_{35}, 3, 1, 0; 2017 RL, 6, 2, 7; 2017 RS, 3, 1, 0; 2017 RU, 4, 1, 0; 2017 RJ_1, 3, 1, 0; 2017 RK_1, 2, 1, 0; 2017 RL_1, 8, 3, 3; 2017 RM_1, 10, 3, 3; 2017 RJ_2, 4, 1, 0; 2017 RK_2, 5, 1, 0; 2017 RS_2, 3, 1, 0; 2017 RU_2, 4, 1, 0; 2017 RV_2, 3, 1, 0; 2017 RK_3 *, 10, 3, 6; 2017 RB_{15}, 2, 1, 0; 2017 RE_{15}, 2, 1, 0; 2017 RQ_{17}, 3, 1, 0; 2017 RV_{17}, 3, 1, 0; 2017 SM_2, 12, 1, 0; 2017 SP_2, 3, 1, 0; 2017 SJ_{10}, 3, 1, 0; 2017 SO_{10}, 3, 1, 0; 2017 SP_{10}, 4, 1, 0; 2017 SQ_{10}, 3, 1, 0; 2017 SS_{10}, 4, 1, 0; 2017 SV_{11}, 3, 1, 0; (2570), 3, 1, 0; (23794), 3, 1, 0; (31912), 3, 1, 0; (46922), 2, 1, 0; (49741), 3, 1, 0; (54618), 4, 1, 0; (58054), 2, 1, 0; (77094), 3, 1, 0; (79662), 2, 1, 0; (87942), 2, 1, 0; (94365), 2, 1, 0; (94789), 3, 1, 0; (95395), 3, 1, 0; (101367), 4, 1, 0; (105585), 3, 1, 0; (115527), 3, 1, 0; (120693), 4, 1, 0; (142039), 2, 1, 0; (143598), 3, 1, 0; (149450), 2, 1, 0; (170049), 2, 1, 0; (195469), 2, 1, 0; (219069), 4, 1, 0; (223708), 2, 1, 0; (287271), 3, 1, 0; (288140), 2, 1, 0; (312732), 3, 1, 0; (318185), 2, 1, 0; (368893), 3, 1, 0; (374534), 2, 1, 0; (376740), 2, 1, 0; (376921), 3, 1, 0; (386991), 4, 1, 0; (496005), 3, 1, 0; *[419, 115, 1*, 2010/01/03–2017/09/22]*

K14 Observatorio de Sencelles
M. Morales, Son Fred Rd. 1, 07140 Sencelles, Balearic Island, Spain [observatorio.de.sencelles@gmail.com]
0.25-m $f/3.3$ Schmidt-Cassegrain + CCD
UCAC-4, CMC-15, USNO-A2.0, URAT-1
2017 BM_{31}, 20, 3, 2; 2017 MB_1, 2, 1, 0; 2017 NM_6, 7, 2, 1; 2017 OT_{18}, 10, 4, 7; 2017 PS_{25}, 5, 1, 0; 2017 PJ_{26}, 15, 2, 5; 2017 RL, 3, 1, 0; 2017 RV_1, 5, 1, 0; (387), 6, 1, 0; (3122), 10, 1, 0; (7336), 3, 1, 0; (90075), 6, 1, 0; (102528), 5, 1, 0; (142561), 5, 1, 0; (190166), 6, 1, 0; (496018), 3, 1, 0; *[111, 16, 0*, 2017/07/10–2017/09/24]*

K19 PASTIS Observatory, Banon
C. Demeautis, 9b rue du sauvage, 68300 Saint-Louis, France [skywalker.14141@wanadoo.fr]
0.16-m $f/3.4$ reflector + CCD
Gaia-DR1, GSC-ACT, UCAC-3
(667), 6, 2, 4; (731), 3, 1, 0; (40364), 6, 2, 4; (52744), 3, 1, 0; (74960), 3, 1, 0; (81183), 3, 1, 0; (134885), 3, 1, 0; (138925), 4, 1, 0; (166577), 3, 1, 0; (250359), 3, 1, 0; *[37, 10, 0*, 2017/07/31–2017/09/24]*

K22 Les Barres Observatory, Lamanon
M. Deldem, 55 Allee de la Citronnelle, 13113 Lamanon, France [marc.deldem@free.fr]
0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.4$ focal reducer
Gaia-DR1, UCAC-4
(89), 21, 6, 17; (107), 21, 6, 38; (337), 15, 4, 16; (339), 3, 1, 0; (516), 5, 1, 0; (704), 10, 3, 3; (2662), 3, 1, 0; (2948), 3, 1, 0; (7145), 3, 1, 0; (13285), 2, 1, 0; (20330), 3, 1, 0; (32733), 3, 1, 0; (36432), 2, 1, 0; (39627), 3, 1, 0; (42671), 2, 1, 0; (42975), 2, 1, 0; (43668), 3, 1, 0; (67496), 2, 1, 0; (69374), 2, 1, 0; (88290), 3, 1, 0; (100226), 2, 1, 0; (115050), 3, 1, 0; (139883), 3, 1, 0; (164443), 3, 1, 0; (174805), 2, 1, 0; (317398), 5, 2, 1; *[129, 26, 0*, 2017/07/18–2017/09/30]*

K26 Contern
R. Kneip, 1 beim Schmilberbour, L-5316 Contern, Luxembourg [raymond.kneip@education.lu]
0.36-m $f/7.2$ Corrected Dall-Kirkham + CCD
UCAC-4
2017 PR_{25}, 3, 1, 0; 2017 RL, 7, 1, 0; 2017 RV_1, 12, 2, 2; (3122), 6, 1, 0; *[28, 4, 0*, 2017/09/02–2017/09/26]*

K30 Lüscherz
L. Grimm, Hauptstrasse 60, 2576 Lüscherz, Switzerland [lorenz.grimm@vtxmail.ch]

0.25-m $f/4.8$ Newtonian reflector + CCD
UCAC-4
2017 RX_1, 3, 1, 0; 2017 SD_{12}, 3, 1, 0; *[6, 2, 0∗, 2017/09/22]*

K38 M57 Observatory, Saltrio
G. Baj, via Viggiu 35, Saltrio, Varese, Italy [amir31@alice.it]
0.30-m $f/5.5$ Ritchey-Chrétien + CCD
Gaia-DR1
2008 UO_{228}, 3, 1, 0; 2017 MC_4, 5, 1, 0; 2017 NH, 5, 1, 0; 2017 NL_2, 3, 1, 0; (3122), 6, 1, 0; (61951), 3, 1, 0; (457175), 3, 1, 0; *[28, 7, 0∗, 2017/07/07–2017/09/12]*

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
Gaia-DR1
2003 QW_{30}, 3, 1, 0; 2014 YC_{15}, 10, 1, 0; 2017 PS_{25}, 4, 1, 0; 2017 QB_{33}, 2, 1, 0; 2017 RX_1, 3, 1, 0; 2017 SD_{12}, 4, 1, 0; (265962), 5, 1, 0; (422699), 14, 1, 0; (496018), 6, 1, 0; *[51, 9, 0∗, 2017/08/22–2017/09/23]*

K46 Bamberg
K. Völkel, Kunigundendamm 148, 96050 Bamberg Germany [klaus.voelkel@bnv-bamberg.de]
0.10-m $f/6.8$ refractor + CCD
USNO-B1.0, UCAC-4
(3122), 7, 2, 5; *[7, 1, 0∗, 2017/08/29–2017/09/03]*

K50 Sternwarte Feuerstein, Ebermannstadt
F. Fleischmann, Sternwarte 1, 91320 Ebermannstadt, Germany [ff@fonline.de]
Observer F. Fleischmann
Measurer K. Völkel
0.20-m $f/5$ reflector + CCD
UCAC-4
(3122), 7, 1, 0; *[7, 1, 0∗, 2017/08/29]*

K61 Rokycany Observatory
M. Mašek, Voldusska 721/II, 33701, Rokycany, Czech Republic [cassi@astronomie.cz]
Observer M. Adamovsky
0.51-m $f/6.8$ reflector + CCD
UCAC-4
2015 VY_{152}, 2, 1, 0; 2017 PE, 3, 1, 0; 2017 PX_{24}, 2, 1, 0; 2017 PR_{25}, 2, 1, 0; 2017 PS_{25}, 9, 2, 1; 2017 PU_{25}, 4, 1, 0; 2017 PL_{26}, 7, 2, 14; 2017 PA_{27}, 2, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QL_{32}, 3, 1, 0; 2017 QM_{32}, 4, 1, 0; 2017 QN_{32}, 3, 1, 0; 2017 RO_1, 2, 1, 0; 2017 RP_1, 2, 1, 0; 2017 RU_1, 4, 1, 0; 2017 RV_1, 8, 1, 0; 2017 RX_1, 4, 1, 0; 2017 RD_{16}, 2, 1, 0; 2017 SZ_1, 2, 1, 0; 2017 SA_2, 2, 1, 0; 2017 SB_2, 2, 1, 0; 2017 SC_2, 2, 1, 0; 2017 SM_2, 6, 1, 0; 2017 SQ_2, 2, 1, 0; *[82, 24, 0∗, 2017/08/13–2017/09/19]*

K63 G. Pascoli Observatory, Castelvecchio Pascoli
R. Bacci, Via Pieri 1, 55051 Castelvecchio Pascoli, Italy [roberto.bacci@gmail.com]
Observers R. Bacci, V. Bacci, M. Nardini
0.30-m Schmidt-Cassegrain + CCD, 0.40-m $f/3.2$ Newtonian reflector + CCD
PPMXL
2017 KR_{34}, 3, 1, 0; 2017 OD, 3, 1, 0; 2017 OG_1, 3, 1, 0; 2017 OM_1, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 RJ_1, 3, 1, 0; 2017 RW_1, 3, 1, 0; 2017 RX_1, 3, 1, 0; 2017 RQ_2, 3, 1, 0; (3122), 9, 2, 1; (265962), 3, 1, 0; *[39, 11, 0∗, 2017/07/18–2017/09/13]*

K65 Cesena
V. Tinella, Via Galileo Ferraris 31, Cesena, 47522 Forli, Italy [vtinella@libero.it]
0.40-m $f/7$ Schmidt-Cassegrain + CCD
UCAC-4
2013 TZ_{135}, 3, 1, 0; 2017 NV_5, 2, 1, 0; 2017 NM_6, 3, 1, 0; 2017 OD_1, 3, 1, 0; 2017 ON_1, 3, 1, 0; 2017 OO_1, 3, 1, 0; 2017 OD_7, 3, 1, 0; 2017 OF_7, 3, 1, 0; 2017 OH_7, 4, 1, 0; 2017 OK_7, 3, 1, 0; 2017 OL_{18}, 3, 1, 0; 2017 PR_{24}, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QS_{17}, 3, 1, 0; (82638), 3, 1, 0; (94156), 3, 1, 0; (255578), 3, 1, 0; (426728), 3, 1, 0; *[54, 18, 0∗, 2017/07/14–2017/09/13]*

K73 Gravina in Puglia
F. Taccogna, Via Maurizio Lettieri 19, 70024 Gravina in Puglia, Bari, Italy [ftaccogna@alice.it]
0.20-m $f/5$ Newtonian reflector + CCD
UCAC-4
(594), 3, 1, 0; (950), 1, 1, 0; (3086), 2, 1, 0; (6053), 5, 1, 0; (138925), 9, 1, 0; (190166), 22, 6, 26; *[42, 6, 0∗, 2017/07/18–2017/08/13]*

K74 Muensterschwarzach Observatory, Schwarzach
C. Gerhard, Schweinfurter Straße 40, Schwarzach, 97359 Bavaria, Germany [p.christoph@abtei-muensterschwarzach.de]
0.25-m $f/4.6$ Newtonian reflector + CCD, 0.30-m $f/4$ Newtonian reflector + CCD
UCAC-4
2014 YC_{15}, 7, 2, 8; 2017 BS_5, 4, 1, 0; (1980), 5, 1, 0; (3122), 11, 2, 8; (4074), 3, 1, 0; (5143), 2, 1, 0; (6053), 7, 2, 8; (7336), 3, 1, 0; (19169), 2, 1, 0; (20460), 2, 1, 0; (21333), 2, 1, 0; (68348), 2, 1, 0; (70427), 4, 1, 0; (76613), 2, 1, 0; (90075), 8, 2, 8; (125094), 2, 1, 0; (142561), 4, 1, 0; (190166), 9, 2, 28; (265962), 3, 1, 0; (377352), 6, 1, 0; (422699), 8, 2, 20; (496018), 8, 2, 20; *[104, 22, 0∗, 2017/07/22–2017/09/11]*

K78 iota Scorpii Observatory, La Spezia
G. Scarfi, Privata Da Passano, 67, La Spezia, 19126 Italy [giulio.scarfi@yahoo.it]
0.40-m Ritchey-Chrétien + CCD
UCAC-4
2017 PL_{26}, 10, 1, 0; 2017 RL, 2, 1, 0; 2017 RV_1, 2, 1, 0; (68950), 6, 3, 8; (294739), 4, 2, 5; *[24, 5, 0∗, 2017/08/15–2017/09/21]*

K79 Erfurt
G. Wollenhaupt, 28 Scharnhorststaße, Erfurt, Thuringen 99099, Germany [guido@variastars.de]
0.20-m $f/8.0$ reflector + CCD
UCAC-4
(31771), 3, 1, 0; (81496), 3, 1, 0; (196707), 3, 1, 0; (219703), 3, 1, 0; (364739), 3, 1, 0; (401177), 3, 1, 0; *[18, 6, 0∗, 2017/08/28–2017/09/18]*

K80 Platanus Observatory, Lusowko
T. Kluwak, Admiralska 31, Lusowko, Wielkopolskie 62-080, Poland [tomasz.kluwak@gmail.com]
0.28-m $f/2.2$ Schmidt + CCD
UCAC-4, URAT-1
1998 SZ_{27}, 3, 1, 0; 2012 XP_{106}, 2, 1, 0; 2017 GQ_6, 2, 1, 0; 2017 PT_{25}, 6, 1, 0; 2017 PV_{25}, 10, 1, 0; 2017 PL_{26}, 8, 2, 1; (4379), 3, 1, 0; (44373), 3, 1, 0; (62256), 2, 1, 0; (71830), 3, 1, 0; (82048), 3, 1, 0; (90075), 4, 2, 1; (190166), 2, 1, 0; (373862), 2, 1, 0; (422699), 4, 2, 1; *[57, 15, 0∗, 2017/08/01–2017/08/29]*

K81 P.M.P.H.R. Deep Sky Observatory, Atina
P. Matassa, via Porta dell'Osteria, 464 Atina (FR), Italy
UCAC-4, UCAC-3

(71), 3, 1, 0; (95), 2, 1, 0; (124), 2, 1, 0; (241), 5, 2, 31; (271), 2, 1, 0; (274), 2, 1, 0; (318), 2, 1, 0; (339), 2, 1, 0; (365), 4, 2, 31; (390), 3, 1, 0; (418), 2, 1, 0; (419), 2, 1, 0; (456), 3, 1, 0; (465), 2, 1, 0; (509), 2, 1, 0; (623), 3, 1, 0; (643), 3, 1, 0; (704), 3, 1, 0; (714), 2, 1, 0; (837), 2, 1, 0; (882), 2, 1, 0; (903), 2, 1, 0; (998), 3, 1, 0; (1051), 2, 1, 0; (1086), 3, 1, 0; (1094), 2, 1, 0; (1095), 4, 2, 31; (1120), 2, 1, 0; (1142), 2, 1, 0; (1159), 2, 1, 0; (1240), 3, 1, 0; (1246), 2, 1, 0; (1256), 5, 2, 31; (1266), 3, 1, 0; (1286), 2, 1, 0; (1347), 2, 1, 0; (1384), 2, 1, 0; (1405), 5, 2, 31; (1535), 2, 1, 0; (1542), 2, 1, 0; (1585), 2, 1, 0; (1596), 3, 1, 0; (1604), 2, 1, 0; (1714), 2, 1, 0; (1728), 2, 1, 0; (1739), 2, 1, 0; (1843), 2, 1, 0; (2347), 2, 1, 0; (2440), 2, 1, 0; (2660), 3, 1, 0; (2731), 2, 1, 0; (2752), 2, 1, 0; (2860), 5, 2, 31; (2865), 2, 1, 0; (3625), 2, 1, 0; (3722), 2, 1, 0; (4135), 2, 1, 0; (4324), 5, 2, 31; (4614), 2, 1, 0; (4905), 3, 1, 0; (4911), 2, 1, 0; (4976), 2, 1, 0; *[156, 62, 0∗, 2017/07/31–2017/09/28]*

K82 Alphard Observatory, Ostuni

R. De Lorenzo, Via Nino Sansone 16, 72017 Ostuni (BR), Italy
[robertodelorenzo@impararegiocando.it]

0.25-m f/4.8 Newtonian reflector + CCD

UCAC-4

(3122), 3, 1, 0; *[3, 1, 0∗, 2017/08/30]*

K83 Beppe Forti Astronomical Observatory, Montelupo

M. Tombelli, Via San Vito, I-50056 Montelupo (FI), Italy [m.tombelli@alice.it]
Observers M. Tombelli, M. Lombardo, S. Bartolini, Y. Mazzanti, L. Martinelli, P. Fini, O. Peruz
Measurers M. Lombardo, M. Tombelli, S. Bartolini, A. Mazzanti, S. Foglia, Y. Mazzanti, L. Martinelli, A. Boattini

0.25-m f//6.3 Cassegrain + CCD

UCAC-3

2014 YC_{15}, 3, 1, 0; 2017 OL_{1}, 6, 1, 0; (3122), 8, 1, 0; (6053), 10, 2, 33; (7198), 9, 2, 9; (11398), 4, 1, 0; (17019), 3, 1, 0; (20460), 3, 1, 0; (66146), 3, 1, 0; (90075), 6, 1, 0; (138925), 3, 1, 0; (142561), 3, 1, 0; (143992), 6, 1, 0; (190166), 3, 1, 0; (232368), 4, 1, 0; (366733), 3, 1, 0; (422699), 5, 1, 0; (496018), 4, 1, 0; *[86, 18, 0∗, 2017/07/17–2017/08/30]*

K84 Felliscopio Observatory, Fellicarolo

P. Negrelli, Via Poggio, 248 Fellicarolo (MO), Italy
Observers B. Bernini, P. Negrelli
Measurers R. Bonomi, P. Negrelli, B. Bernini

0.4-m f/8.6 Ritchey-Chrétien + CCD

Gaia-DR1, USNO-B1.0

(3), 3, 1, 0; (178636), 2, 1, 0; *[5, 2, 0∗, 2017/07/29–2017/08/27]*

K87 Dettelbach Vineyard Observatory

B. Häusler, Buergermeister-Knoetgen-Str. 19, Dettelbach 97337, Germany
[bernhard.haeusler@t-online.de]

0.30-m Schmidt-Cassegrain + CCD

CMC-15, Gaia-DR1

2017 SN_{14}, 10, 2, 1; 2017 ST_{14}, 4, 1, 0; (203015), 3, 1, 0; *[17, 3, 0∗, 2017/09/21–2017/09/27]*

K88 GINOP-KHK, Piszkéstető

K. Sárneczky, P.O.B. 67, Budapest H-1525, Hungary
[sarneczky.krisztian@csfk.mta.hu]
Observers O. Hanyecz, A. Sódor, K. Sárneczky, R. Szakáts, A. Ordasi, B. Ignácz, B. Cseh, R. Könyves-Tóth, L. Kriskovics
Measurers K. Sárneczky, S. Kürti

0.60-m Schmidt + CCD

USNO-B1.0

2002 QX_{101}, 3, 1, 0; 2003 QL_{95}, 3, 1, 0; 2004 TK_{356}, 8, 1, 0; 2006 QJ_{122}, 3, 1, 0; 2006 RF_{55}, 3, 1, 0; 2006 UQ_{302}, 7, 1, 0; 2006 XX_{12}, 3, 1, 0; 2007 RS_{205}, 3, 1, 0; 2008 SM_{101}, 3, 1, 0; 2008 TB_{132}, 3, 1, 0; 2011 DU_{21}, 4, 1, 0; 2011 SS_{173}, 3, 1, 0; 2012 TR_{95}, 6, 1, 0; 2012 UT_{52}, 7, 1, 0; 2012 UG_{135}, 6, 1, 0; 2013 RC_{22}, 4, 1, 0; 2013 RP_{40}, 2, 1, 0; 2013 SK_{55}, 6, 2, 1; 2013 TU_{12}, 12, 2, 1; 2013 TH_{124}, 10, 1, 0; 2013 WE_{81}, 4, 1, 0; 2013 YT_{15}, 4, 1, 0; 2014 TX_{79}, 3, 1, 0; 2014 UX_{91}, 5, 2, 1; 2014 WP_{463}, 3, 1, 0; 2014 WQ_{467}, 4, 1, 0; 2015 BG_{69}, 3, 1, 0; 2015 BG_{70}, 3, 1, 0; 2015 FT_{140}, 3, 1, 0; 2015 FH_{143}, 14, 1, 0; 2015 FK_{251}, 2, 1, 0; 2016 AA_{131}, 8, 1, 0; 2016 GK_{24}, 3, 1, 0; 2016 GG_{41}, 14, 1, 0; 2017 EQ_{22}, 2, 1, 0; 2017 ME_{9}, 3, 1, 0; 2017 ND, 2, 1, 0; 2017 NH, 5, 1, 0; 2017 NL_{2}, 2, 1, 0; 2017 NN_{2}, 7, 2, 56; 2017 OB, 3, 1, 0; 2017 OC, 2, 1, 0; 2017 OD, 3, 1, 0; 2017 OA_{1}, 2, 1, 0; 2017 OD_{1}, 3, 1, 0; 2017 OF_{1}, 3, 1, 0; 2017 OG_{1}, 4, 1, 0; 2017 OH_{1}, 2, 1, 0; 2017 OJ_{1}, 3, 1, 0; 2017 OL_{1}, 55, 4, 4; 2017 OM_{1}, 16, 2, 1; 2017 ON_{1}, 9, 2, 1; 2017 OO_{1}, 12, 1, 0; 2017 OT_{1}, 3, 1, 0; 2017 OH_{2}, 6, 2, 1; 2017 OE_{7}, 4, 1, 0; 2017 OF_{7}, 4, 1, 0; 2017 OH_{7}, 31, 2, 2; 2017 OK_{7}, 2, 1, 0; 2017 OS_{18}, 2, 1, 0; 2017 OT_{18}, 6, 2, 1; 2017 OC_{19}, 7, 2, 1; 2017 OK_{19}, 4, 2, 1; 2017 OR_{19}, 3, 1, 0; 2017 OD_{20}, 2, 1, 0; 2017 OC_{21}, 5, 2, 1; 2017 OE_{68}, 3, 1, 0; 2017 OH_{68}, 7, 3, 2; 2017 PT_{25}, 3, 1, 0; 2017 QF_{3}, 3, 1, 0; 2017 QG_{3}, 3, 1, 0; 2017 QM_{16}, 3, 1, 0; 2017 QS_{16}, 3, 1, 0; 2017 QT_{16}, 7, 1, 0; 2017 QE_{17}, 2, 1, 0; 2017 QJ_{17}, 2, 1, 0; 2017 QS_{17}, 3, 1, 0; 2017 QZ_{24}, 9, 2, 1; 2017 QV_{34}, 5, 2, 8; 2017 QY_{34}, 3, 1, 0; 2017 QJ_{35}, 3, 1, 0; 2017 QK_{35}, 3, 1, 0; 2017 QL_{35}, 6, 2, 8; 2017 QR_{35}, 8, 1, 0; 2017 RL, 8, 1, 0; 2017 RV_{1}, 15, 1, 0; 2017 RS_{2}, 2, 1, 0; 2017 RV_{2}, 3, 1, 0; 2017 RX_{2}, 3, 1, 0; 2017 RU_{13}, 14, 1, 0; 2017 RR_{15}, 8, 1, 0; 2017 RV_{17}, 14, 1, 0; 2017 SM_{2}, 3, 1, 0; 2017 SN_{2}, 23, 1, 0; 2017 SH_{16}, 2, 1, 0; 2017 SK_{16}, 5, 2, 1; 2017 SR_{16}, 8, 2, 1; 2017 SP_{17}, 6, 2, 1; 2017 SX_{17}, 3, 1, 0; 2017 SS_{19}, 3, 1, 0; 2017 SG_{20}, 5, 2, 1; 2017 SH_{20}, 2, 1, 0; (339), 3, 1, 0; (546), 6, 2, 1; (1107), 6, 2, 1; (2350), 9, 3, 4; (2413), 8, 1, 0; (2598), 6, 2, 1; (2977), 6, 1, 0; (3132), 2, 1, 0; (3518), 4, 1, 0; (3555), 12, 4, 5; (3646), 4, 1, 0; (3731), 6, 1, 0; (3897), 9, 3, 5; (4532), 6, 1, 0; (4676), 4, 1, 0; (5061), 8, 1, 0; (5540), 3, 1, 0; (5665), 3, 1, 0; (5956), 4, 1, 0; (5972), 4, 1, 0; (5979), 3, 1, 0; (6013), 3, 1, 0; (6196), 6, 2, 1; (6466), 7, 1, 0; (6851), 15, 5, 13; (7145), 17, 4, 10; (7267), 8, 1, 0; (7413), 4, 1, 0; (7555), 4, 1, 0; (7594), 6, 2, 30; (8117), 3, 1, 0; (8626), 14, 1, 0; (8692), 3, 1, 0; (9727), 8, 1, 0; (10026), 6, 2, 4; (10069), 8, 1, 0; (10780), 9, 3, 4; (10966), 7, 1, 0; (11095), 7, 1, 0; (11118), 4, 1, 0; (11297), 8, 1, 0; (11476), 14, 1, 0; (11608), 3, 1, 0; (11723), 3, 1, 0; (11968), 14, 1, 0; (11991), 21, 7, 13; (12492), 2, 1, 0; (13233), 7, 1, 0; (14579), 3, 1, 0; (15037), 8, 1, 0; (15174), 11, 2, 1; (15533), 8, 1, 0; (15952), 12, 2, 1; (16043), 8, 1, 0; (16161), 8, 1, 0; (16540), 3, 1, 0; (16674), 3, 1, 0; (17061), 3, 1, 0; (17659), 6, 1, 0; (17714), 4, 1, 0; (18233), 6, 2, 1; (18251), 8, 1, 0; (18360), 4, 1, 0; (19033), 8, 1, 0; (19166), 6, 2, 1; (20052), 3, 1, 0; (20080), 3, 1, 0; (20160), 6, 2, 1; (20354), 8, 1, 0; (20855), 8, 1, 0; (21085), 8, 1, 0; (21200), 3, 1, 0; (21605), 9, 2, 1; (21953), 12, 4, 5; (22805), 6, 1, 0; (23231), 8, 1, 0; (24268), 7, 1, 0; (24626), 8, 1, 0; (24846), 6, 2, 1; (25020), 7, 1, 0; (25049), 6, 1, 0; (25338), 8, 1, 0; (25671), 14, 1, 0; (27854), 3, 1, 0; (27869), 8, 1, 0; (28764), 8, 1, 0; (29199), 8, 1, 0; (29252), 3, 1, 0; (29557), 8, 1, 0; (29797), 3, 1, 0; (29810), 6, 1, 0; (29814), 3, 1, 0; (29820), 2, 1, 0; (29883), 4, 1, 0; (30671), 7, 1, 0; (30880), 4, 1, 0; (31571), 9, 3, 2; (31947), 6, 2, 2; (32003), 9, 3, 2; (32074), 4, 1, 0; (32230), 6, 1, 0; (32578), 3, 1, 0; (33011), 8, 1, 0; (33401), 9, 2, 1; (34138), 8, 1, 0; (34551), 12, 2, 1; (34633), 6, 1, 0; (35711), 3, 1, 0; (35867), 12, 4, 5; (35927), 7, 1, 0; (36032), 3, 1, 0; (36303), 8, 1, 0; (36358), 7, 1, 0; (37425), 7, 1, 0; (37682), 12, 4, 3; (37957), 12, 2, 1; (37977), 7, 1, 0; (38348), 6, 1, 0; (38708), 4, 1, 0; (38711), 3, 1, 0; (38869), 7, 1, 0; (39912), 3, 1, 0; (40294), 8, 1, 0; (40561), 8, 1, 0; (41117), 3, 1, 0; (41748), 8, 1, 0; (43802), 3, 1, 0; (44469), 8, 1, 0; (44533), 6, 1, 0; (44763), 7, 1, 0; (46650), 7, 1, 0; (48955), 12, 2, 1; (49049), 8, 1, 0; (50652), 8, 1, 0; (50878), 7, 1, 0; (51883), 8, 1, 0; (52037), 11, 2, 1; (52416), 7, 1, 0; (52512), 8, 1, 0; (53396), 8, 1, 0; (53625), 7, 1, 0; (53692), 12, 4, 3; (54437), 4, 1, 0; (56295), 4, 1, 0; (56454), 2, 1, 0; (56768), 4, 1, 0; (58363), 3, 1, 0; (58592), 4, 1, 0; (58806), 3, 1, 0; (58920), 3, 1, 0; (59071), 4, 1, 0; (59085), 12, 2, 1; (60040), 3, 1, 0; (60097), 3, 1, 0; (60932), 3, 1, 0; (60938), 3, 1, 0; (61517), 3, 1, 0; (61951), 4, 1, 0; (62172), 14, 1, 0; (63614), 3, 1, 0; (64072), 8, 1, 0; (64203), 8, 1, 0; (64545), 8, 1, 0; (64774), 8, 1, 0; (65447), 7, 1, 0; (65810), 22, 4, 8; (66266), 8, 1, 0; (66320), 8, 1, 0; (67711), 7, 1, 0; (67897), 6, 2, 1; (67901), 8, 1, 0; (68176), 3, 1, 0; (68306), 7, 1, 0; (68885), 7, 1, 0; (68917), 8, 1, 0; (69314), 8, 1, 0; (69630), 7, 1, 0; (70140), 8, 1, 0; (70158), 4, 1, 0; (70370), 4, 1, 0; (70427), 7, 1, 0; (71900), 3, 1, 0; (72737), 3, 1, 0; (73801), 3, 1, 0; (74012), 4, 1, 0; (74417), 8, 1, 0; (74806), 6, 2, 1; (75211), 3, 1, 0; (75778), 16, 2, 6; (76186), 6, 2, 3; (77136), 3, 1, 0; (79041), 3, 1, 0; (81141), 12, 2, 1; (81887), 3, 1, 0; (81994), 3, 1, 0; (82445), 9, 3, 2; (82971), 12, 2, 1; (83241), 3, 1, 0; (83735), 3, 1, 0; (83932), 8, 1, 0; (85909), 12, 2, 1; (87173), 9, 3, 4; (87248), 3, 1, 0; (87755), 3, 1, 0; (88540), 7, 1, 0; (88643), 7, 1, 0; (89073), 8, 1, 0; (89536), 8, 1, 0; (89655), 3, 1, 0; 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(121393), 6, 2, 1; (122245), 8, 1, 0; (122281), 3, 1, 0; (122667), 14, 3, 7; (122856), 6, 1, 0; (123339), 3, 1, 0; (123669), 3, 1, 0; (125550), 3, 1, 0; (125852), 9, 3, 2; (125939), 6, 2, 1; (126692), 7, 1, 0; (127176), 3, 1, 0; (127482), 8, 2, 1; (127504), 8, 1, 0; (127894), 7, 1, 0; (128404), 7, 1, 0; (130138), 3, 1, 0; (131208), 3, 1, 0; (131481), 11, 1, 0; (131710), 14, 1, 0; (132057), 6, 2, 1; (133178), 3, 1, 0; (134526), 8, 1, 0; (135217), 8, 1, 0; (135249), 8, 1, 0; (135255), 3, 1, 0; (136073), 7, 1, 0; (136914), 3, 1, 0; (137773), 12, 2, 1; (138015), 3, 1, 0; (138854), 3, 1, 0;

(140024), 8, 1, 0; (140054), 8, 1, 0; (140434), 9, 3, 2; (140568), 12, 2, 6; (140685), 8, 1, 0; (140791), 14, 1, 0; (140942), 4, 1, 0; (141061), 7, 1, 0; (141368), 3, 1, 0; (141837), 8, 1, 0; (142226), 14, 1, 0; (142230), 14, 1, 0; (144346), 3, 1, 0; (144820), 4, 1, 0; (144896), 8, 1, 0; (144958), 7, 1, 0; (146112), 3, 1, 0; (147216), 8, 2, 1; (147654), 8, 2, 1; (147688), 4, 1, 0; (149009), 7, 1, 0; (150902), 11, 2, 3; (151136), 19, 3, 7; (151180), 3, 1, 0; (152157), 6, 2, 1; (155564), 3, 1, 0; (157266), 6, 1, 0; (157687), 3, 1, 0; (158575), 4, 1, 0; (159631), 4, 1, 0; (160518), 8, 1, 0; (160929), 3, 1, 0; (163140), 3, 1, 0; (163388), 3, 1, 0; (163591), 4, 1, 0; (164327), 3, 1, 0; (165308), 8, 2, 1; (165675), 8, 1, 0; (165845), 3, 1, 0; (168613), 14, 1, 0; (169149), 4, 1, 0; (169596), 7, 1, 0; (170097), 3, 1, 0; (170364), 8, 1, 0; (170787), 7, 1, 0; (171107), 12, 2, 2; (171965), 3, 1, 0; (172120), 14, 1, 0; (172452), 12, 4, 3; (173580), 7, 1, 0; (173712), 6, 2, 1; (173722), 6, 2, 2; (173987), 14, 1, 0; (175792), 6, 1, 0; (176771), 8, 2, 1; (176890), 3, 1, 0; (177362), 3, 1, 0; (177826), 3, 1, 0; (178633), 8, 1, 0; (179419), 3, 1, 0; (180331), 4, 1, 0; (180365), 14, 1, 0; (180629), 8, 1, 0; (181634), 6, 1, 0; (184160), 4, 1, 0; (184267), 6, 1, 0; (187084), 8, 1, 0; (187182), 7, 1, 0; (187466), 16, 2, 1; (187878), 3, 1, 0; (188101), 8, 1, 0; (189063), 3, 1, 0; (192855), 8, 1, 0; (196525), 6, 1, 0; (196549), 12, 2, 1; (196771), 14, 1, 0; (196790), 7, 1, 0; (196917), 3, 1, 0; (198283), 3, 1, 0; (198485), 6, 1, 0; (199258), 6, 1, 0; (200152), 3, 1, 0; (201342), 11, 2, 1; (205591), 8, 1, 0; (206161), 6, 1, 0; (206666), 3, 1, 0; (206684), 3, 1, 0; (206722), 4, 1, 0; (206774), 3, 1, 0; (207373), 4, 1, 0; (207377), 4, 1, 0; (208229), 8, 1, 0; (208991), 8, 1, 0; (209003), 7, 1, 0; (209515), 3, 1, 0; (209955), 7, 1, 0; (210273), 12, 2, 1; (211161), 6, 1, 0; (211521), 7, 1, 0; (212568), 7, 1, 0; (216716), 10, 1, 0; (217381), 3, 1, 0; (219444), 4, 1, 0; (221210), 3, 1, 0; (222498), 7, 1, 0; (222703), 11, 2, 1; (223650), 3, 1, 0; (224572), 7, 1, 0; (225505), 6, 1, 0; (225861), 3, 1, 0; (225930), 4, 1, 0; (227458), 8, 1, 0; (227490), 4, 1, 0; (229117), 3, 1, 0; (229197), 3, 1, 0; (229752), 3, 1, 0; (229775), 8, 1, 0; (230071), 8, 1, 0; (230930), 3, 1, 0; (231329), 3, 1, 0; (231595), 3, 1, 0; (231754), 3, 1, 0; (232530), 7, 1, 0; (233059), 4, 1, 0; (233603), 9, 3, 3; (234879), 8, 1, 0; (235119), 6, 2, 1; (235200), 3, 1, 0; (237020), 3, 1, 0; (239241), 12, 2, 1; (241393), 3, 1, 0; (241849), 6, 1, 0; (241854), 6, 1, 0; (242576), 3, 1, 0; (243148), 8, 1, 0; (243801), 3, 1, 0; (245377), 7, 1, 0; (247718), 3, 1, 0; (249250), 3, 1, 0; (251359), 6, 2, 1; (251970), 15, 2, 1; (252347), 6, 2, 1; (253021), 3, 1, 0; (253153), 3, 1, 0; (254455), 3, 1, 0; (255564), 3, 1, 0; (256563), 3, 1, 0; (257228), 8, 1, 0; (259172), 3, 1, 0; (259871), 14, 1, 0; (260437), 3, 1, 0; (262428), 6, 2, 1; (265610), 7, 1, 0; (267383), 3, 1, 0; (268139), 14, 1, 0; (269142), 3, 1, 0; (269272), 3, 1, 0; (270374), 8, 1, 0; (270463), 4, 1, 0; (271151), 3, 1, 0; (271794), 4, 1, 0; (276986), 12, 2, 1; (277439), 3, 1, 0; (278365), 3, 1, 0; (278962), 3, 1, 0; (280609), 3, 1, 0; (281354), 7, 1, 0; (282205), 4, 1, 0; (283034), 4, 1, 0; (283275), 3, 1, 0; (284643), 3, 1, 0; (285264), 8, 1, 0; (285635), 3, 1, 0; (285922), 3, 1, 0; (289853), 3, 1, 0; (292776), 7, 1, 0; (294095), 14, 1, 0; (294268), 7, 1, 0; (295715), 11, 1, 0; (296839), 4, 1, 0; (296857), 6, 2, 1; (303808), 3, 1, 0; (310573), 4, 1, 0; (311131), 3, 1, 0; (316319), 3, 1, 0; (316406), 22, 4, 7; (317159), 3, 1, 0; (319424), 7, 1, 0; (319491), 4, 1, 0; (320391), 3, 1, 0; (320547), 4, 1, 0; (320859), 7, 1, 0; (323350), 3, 1, 0; (323477), 4, 1, 0; (325331), 3, 1, 0; (325649), 2, 1, 0; (327973), 3, 1, 0; (328229), 12, 2, 1; (332368), 8, 1, 0; (333669), 3, 1, 0; (334844), 7, 1, 0; (335539), 7, 1, 0; (336144), 4, 1, 0; (336347), 4, 1, 0; (338110), 3, 1, 0; (340734), 3, 1, 0; (341406), 11, 2, 1; (341797), 3, 1, 0; (345823), 3, 1, 0; (346307), 7, 1, 0; (350222), 3, 1, 0; (350423), 3, 1, 0; (352596), 3, 1, 0; (358469), 3, 1, 0; (358595), 8, 1, 0; (363652), 6, 2, 2; (364630), 4, 1, 0; (366829), 3, 1, 0; (368207), 3, 1, 0; (368909), 3, 1, 0; (370301), 3, 1, 0; (370964), 9, 3, 2; (370983), 8, 1, 0; (373524), 8, 1, 0; (374159), 3, 1, 0; (374348), 4, 1, 0; (374467), 3, 1, 0; (374579), 3, 1, 0; (376263), 3, 1, 0; (376515), 11, 2, 1; (376902), 3, 1, 0; (376957), 7, 1, 0; (377358), 7, 1, 0; (377443), 3, 1, 0; (377748), 3, 1, 0; (377773), 3, 1, 0; (377929), 3, 1, 0; (378670), 3, 1, 0; (379275), 3, 1, 0; (380189), 3, 1, 0; (380569), 14, 1, 0; (381429), 8, 1, 0; (381874), 3, 1, 0; (383396), 3, 1, 0; (385016), 7, 1, 0; (386991), 3, 1, 0; (387167), 8, 1, 0; (413095), 7, 1, 0; (415776), 3, 1, 0; (417981), 6, 2, 1; (418012), 7, 1, 0; (419569), 4, 1, 0; (420373), 3, 1, 0; (420440), 3, 1, 0; (420852), 8, 1, 0; (420875), 8, 1, 0; (421117), 4, 1, 0; (421392), 9, 3, 2; (422719), 3, 1, 0; (424106), 3, 1, 0; (424261), 3, 1, 0; (424376), 3, 1, 0; (425122), 4, 1, 0; (425520), 11, 2, 1; (426280), 3, 1, 0; (426337), 3, 1, 0; (426946), 6, 1, 0; (428276), 3, 1, 0; (430785), 3, 1, 0; (430968), 11, 2, 1; (431020), 3, 1, 0; (431471), 3, 1, 0; (432807), 3, 1, 0; (433111), 3, 1, 0; (434068), 4, 1, 0; (457175), 3, 1, 0; (465830), 3, 1, 0; (467638), 3, 1, 0; (469212), 12, 2, 1; (491025), 6, 1, 0; (496372), 4, 1, 0; (496393), 11, 2, 1; *[4116, 677, 0*, 2016/11/24–2017/10/01]*

K91 Sutherland-LCO A

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, J. MacFarlane, P.-J. Dekelver, W. Cuppens

1.0-m $f/8$ Ritchey-Chrétien + CCD

Gaia-DR1, URAT-1

2004 RP_{129}, 6, 1, 0; 2005 UM_{332}, 3, 1, 0; 2006 TU_{7}, 3, 1, 0; 2008 SS_{15}, 4, 1, 0; 2010 TS_{60}, 5, 1, 0; 2011 PT, 17, 2, 2; 2013 JF_{34}, 4, 1, 0; 2013 SL_{30}, 3, 1, 0; 2013 WV_{35}, 6, 1, 0; 2014 UP_{199}, 8, 2, 4; 2014 WN_{407}, 3, 1, 0; 2015 AJ_{279}, 3, 1, 0; 2015 FE_{280}, 6, 1, 0; 2016 SV_{34}, 6, 1, 0; 2017 NL, 4, 1, 0; 2017 NT_{5}, 7, 1, 0; 2017 NL_{6}, 6, 1, 0; 2017 ON_{1}, 6, 1, 0; 2017 OP_{2}, 6, 1, 0; 2017 OQ_{2}, 5, 1, 0; 2017 OR_{2}, 3, 1, 0; 2017 OK_{3} *, 6, 1, 0; 2017 OG_{7}, 3, 1, 0; 2017 OT_{12}, 4, 1, 0; 2017 OK_{18}, 4, 1, 0; 2017 ON_{18}, 6, 1, 0; 2017 OO_{19}, 3, 1, 0; 2017 OA_{20}, 3, 1, 0; 2017 ON_{67}, 3, 1, 0; 2017 PN_{25}, 5, 1, 0; 2017 PY_{25}, 4, 1, 0; 2017 PA_{26}, 3, 1, 0; 2017 PB_{26}, 4, 1, 0; 2017 PE_{26}, 3, 1, 0; 2017 PK_{26}, 3, 1, 0; 2017 PT_{30}, 4, 1, 0; 2017 RN_{1}, 3, 1, 0; 2017 RG_{16}, 4, 1, 0; 2017 SF_{10}, 3, 1, 0; 2017 SM_{10}, 3, 1, 0; 2017 SS_{13}, 3, 1, 0; 2017 SY_{16}, 6, 1, 0; 2017 SZ_{16}, 4, 1, 0; 2017 SR_{17}, 3, 1, 0; 2017 SW_{18}, 4, 1, 0; 2017 SW_{20}, 3, 1, 0; (1202), 3, 1, 0; (10413), 6, 1, 0; (11925), 6, 1, 0; (19968), 6, 1, 0; (21284), 3, 1, 0; (32230), 6, 1, 0; (39027), 3, 1, 0; (39911), 3, 1, 0; (42364), 4, 1, 0; (44967), 4, 1, 0; (47877), 3, 1, 0; (53240), 4, 1, 0; (60100), 6, 1, 0; (73195), 6, 1, 0; (80713), 6, 1, 0; (81644), 3, 1, 0; (84343), 4, 1, 0; (88729), 4, 1, 0; (110102), 4, 1, 0; (117478), 4, 1, 0; (122427), 6, 1, 0; (125394), 3, 1, 0; (127926), 4, 1, 0; (130867), 6, 1, 0; (134104), 4, 1, 0; (134536), 6, 1, 0; (154590), 2, 1, 0; (162183), 8, 1, 0; (163117), 4, 1, 0; (163378), 3, 1, 0; (169309), 4, 1, 0; (170820), 4, 1, 0; (172398), 6, 1, 0; (173910), 6, 1, 0; (178781), 6, 1, 0; (191853), 4, 1, 0; (196577), 4, 1, 0; (200871), 6, 1, 0; (201578), 3, 1, 0; (208986), 3, 1, 0; (221102), 4, 1, 0; (228604), 6, 1, 0; (259175), 3, 1, 0; (261401), 6, 1, 0; (269777), 4, 1, 0; (272794), 6, 1, 0; (278769), 6, 1, 0; (282428), 3, 1, 0; (296395), 4, 1, 0; (331923), 6, 1, 0; (343362), 4, 1, 0; (348238), 3, 1, 0; (370995), 4, 1, 0; (384187), 3, 1, 0; (455748), 5, 1, 0; (465930), 4, 1, 0; (466417), 4, 1, 0; (494710), 18, 2, 1; *[481, 104, 1*, 2016/09/29–2017/09/27]*

K92 Sutherland-LCO B

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers P.-J. Dekelver, W. Cuppens, T. Lister, S. Greenstreet

1.0-m $f/8$ Ritchey-Chrétien + CCD

UCAC-4, Gaia-DR1

2013 ET_{154}, 3, 1, 0; (154590), 3, 1, 0; (495829), 13, 2, 8; *[19, 3, 0*, 2014/10/03–2017/06/02]*

K93 Sutherland-LCO C

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens

1.0-m $f/8$ Ritchey-Chrétien + CCD

Gaia-DR1, URAT-1

2000 KC, 5, 1, 0; 2003 DZ_{15}, 3, 1, 0; 2004 TD_{10}, 3, 1, 0; 2006 SR_{402}, 3, 1, 0; 2006 TU_{7}, 5, 1, 0; 2007 VK_{138}, 5, 1, 0; 2008 CC_{212}, 4, 1, 0; 2009 BZ_{9}, 6, 1, 0; 2009 RT_{74}, 4, 1, 0; 2010 XQ_{88}, 3, 1, 0; 2011 CC_{13}, 3, 1, 0; 2011 CW_{107}, 3, 1, 0; 2013 JF_{34}, 3, 1, 0; 2013 TT_{61}, 3, 1, 0; 2014 QT_{300}, 4, 1, 0; 2016 GT_{206}, 5, 1, 0; 2017 MD_{9}, 7, 2, 12; 2017 MF_{9}, 5, 1, 0; 2017 NL, 4, 1, 0; 2017 NJ_{2}, 3, 1, 0; 2017 NL_{2}, 3, 1, 0; 2017 NQ_{6}, 3, 1, 0; 2017 NV_{6}, 4, 1, 0; 2017 OJ_{1}, 4, 1, 0; 2017 OK_{1}, 3, 1, 0; 2017 OO_{2} *, 4, 1, 0; 2017 OP_{2} *, 4, 1, 0; 2017 OQ_{2} *, 4, 1, 0; 2017 OR_{2} *, 4, 1, 0; 2017 OU_{2}, 4, 1, 0; 2017 OV_{2}, 4, 1, 0; 2017 OW_{2}, 3, 1, 0; 2017 OT_{12}, 4, 1, 0; 2017 PC, 3, 1, 0; 2017 PZ_{25}, 3, 1, 0; 2017 PM_{26}, 3, 1, 0; 2017 PP_{26}, 6, 1, 0; 2017 PR_{30}, 4, 1, 0; 2017 PC_{31}, 3, 1, 0; 2017 RC_{14}, 3, 1, 0; 2017 RE_{14}, 3, 1, 0; 2017 RS_{17}, 4, 1, 0; 2017 SV_{1}, 6, 1, 0; 2017 SC_{2}, 6, 1, 0; 2017 SE_{2}, 4, 1, 0; 2017 SX_{2}, 3, 1, 0; 2017 SS_{16}, 4, 1, 0; 2017 SA_{17}, 4, 1, 0; 2017 SX_{17}, 4, 1, 0; 2017 SF_{18}, 2, 1, 0; 2017 SW_{18}, 4, 1, 0; 2017 SC_{19}, 7, 1, 0; (2731), 4, 1, 0; (7033), 3, 1, 0; (19174), 3, 1, 0; (20767), 4, 1, 0; (27191), 6, 1, 0; (34682), 3, 1, 0; (46658), 5, 1, 0; (58018), 6, 1, 0; (58670), 4, 1, 0; (72127), 6, 1, 0; (81767), 6, 1, 0; (84595), 3, 1, 0; (87872), 4, 1, 0; (111944), 4, 1, 0; (117495), 3, 1, 0; (118040), 3, 1, 0; (127347), 6, 1, 0; (134868), 3, 1, 0; (140999), 5, 1, 0; (141855), 5, 1, 0; (149418), 6, 1, 0; (164236), 3, 1, 0; (167577), 3, 1, 0; (171812), 4, 1, 0; (174807), 5, 1, 0; (176301), 4, 1, 0; (176594), 3, 1, 0; (191055), 6, 1, 0; (204257), 3, 1, 0; (212612), 4, 1, 0; (212667), 3, 1, 0; (214579), 3, 1, 0; (249114), 6, 1, 0; (257263), 4, 1, 0; (266838), 3, 1, 0; (267456), 3, 1, 0; (274915), 3, 1, 0; (296234), 4, 1, 0; (324373), 3, 1, 0; (326354), 4, 2, 1; (333188), 2, 1, 0; (345552), 3, 1, 0; (345701), 3, 1, 0; (365067), 2, 1, 0; (376813), 6, 1, 0; (385873), 3, 1, 0; (404726), 3, 1, 0; (413432), 3, 1, 0; (419896), 3, 1, 0; (433193), 6, 1, 0; (461660), 3, 1, 0; (466939), 3, 1, 0; (474011), 6, 1, 0; (496702), 4, 1, 0; *[418, 106, 4*, 2017/06/14–2017/09/30]*

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, A. Rezaeva

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

2000 OA_{51}, 4, 1, 0; 2001 PK_{5}, 9, 2, 10; 2001 QK_{187}, 6, 1, 0; 2002 OT_{32}, 6, 1, 0; 2002 QQ_{33}, 6, 1, 0; 2002 RE_{296}, 3, 1, 0; 2004 AH, 2, 1, 0; 2006 KA_{40}, 3, 1, 0; 2007 VX_{258}, 2, 1, 0; 2007 VJ_{299}, 3, 1,

0; 2008 FB_{83}, 2, 1, 0; 2008 TW_{83}, 3, 1, 0; 2008 UQ_{364}, 3, 1, 0; 2009 SA_{327}, 3, 1, 0; 2010 OS_{14}, 3, 1, 0; 2010 ST_{22}, 6, 1, 0; 2011 CB_{89}, 2, 1, 0; 2012 FC_{43}, 6, 1, 0; 2012 HC_{59}, 2, 1, 0; 2012 JM_{45}, 3, 1, 0; 2012 TD_{131}, 4, 1, 0; 2012 UU_{52}, 3, 1, 0; 2013 QY_{42}, 6, 1, 0; 2013 SB_{83}, 2, 1, 0; 2013 TU_{136}, 2, 1, 0; 2014 SZ_{208}, 2, 1, 0; 2014 WM_{350}, 4, 1, 0; 2014 YC_{15}, 5, 1, 0; 2015 BG_{260}, 5, 1, 0; 2016 AN_{122}, 6, 2, 1; 2017 ON_1, 3, 1, 0; 2017 OZ_1, 6, 1, 0; 2017 OG_{20}, 9, 1, 0; 2017 SZ_9, 3, 1, 0; (5), 4, 1, 0; (8), 4, 1, 0; (10), 5, 2, 1; (12), 4, 1, 0; (23), 6, 1, 0; (24), 3, 1, 0; (41), 2, 1, 0; (47), 3, 1, 0; (52), 5, 1, 0; (55), 3, 1, 0; (59), 8, 2, 3; (63), 13, 4, 43; (64), 2, 1, 0; (70), 3, 1, 0; (81), 5, 1, 0; (84), 2, 1, 0; (93), 2, 1, 0; (95), 3, 1, 0; (104), 6, 1, 0; (105), 2, 1, 0; (112), 3, 1, 0; (115), 5, 1, 0; (119), 3, 1, 0; (125), 3, 1, 0; (130), 2, 1, 0; (131), 8, 1, 0; (137), 15, 2, 27; (153), 2, 1, 0; (155), 3, 1, 0; 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(636), 15, 2, 25; (656), 6, 1, 0; (667), 2, 1, 0; (672), 10, 1, 0; (673), 2, 1, 0; (675), 2, 1, 0; (678), 4, 1, 0; (682), 3, 1, 0; (692), 10, 1, 0; (698), 3, 1, 0; (712), 4, 1, 0; (718), 6, 1, 0; (740), 4, 1, 0; (744), 4, 1, 0; (752), 3, 1, 0; (753), 2, 1, 0; (756), 14, 1, 0; (762), 3, 1, 0; (773), 38, 4, 15; (782), 6, 1, 0; (799), 8, 1, 0; (807), 4, 1, 0; (810), 6, 2, 2; (811), 3, 1, 0; (816), 19, 3, 10; (819), 7, 1, 0; (832), 3, 1, 0; (847), 9, 2, 1; (866), 6, 1, 0; (868), 2, 1, 0; (870), 2, 1, 0; (882), 2, 1, 0; (901), 6, 1, 0; (913), 5, 1, 0; (916), 2, 1, 0; (917), 6, 1, 0; (919), 8, 1, 0; (929), 6, 2, 4; (939), 6, 1, 0; (940), 6, 1, 0; (944), 7, 2, 15; (946), 11, 1, 0; (961), 2, 1, 0; (964), 5, 2, 5; (969), 3, 1, 0; (973), 6, 1, 0; (994), 4, 1, 0; (1004), 5, 2, 11; (1005), 6, 2, 53; (1011), 2, 1, 0; (1013), 3, 1, 0; (1026), 3, 1, 0; (1042), 3, 1, 0; (1043), 3, 1, 0; (1083), 3, 1, 0; (1085), 6, 1, 0; (1088), 3, 1, 0; (1091), 3, 1, 0; (1099), 5, 2, 57; (1100), 3, 1, 0; (1102), 4, 1, 0; 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(391776), 6, 1, 0; (398298), 4, 1, 0; (401201), 6, 2, 3; (404316), 2, 1, 0; (407732), 2, 1, 0; (410215), 2, 1, 0; (413388), 8, 2, 1; (413422), 3, 1, 0; (414026), 11, 1, 0; (414112), 4, 1, 0; (414798), 1, 1, 0; (416404), 11, 1, 0; (417445), 4, 1, 0; (419729), 5, 1, 0; (419946), 5, 1, 0; (420782), 2, 1, 0; (420790), 3, 1, 0; (421415), 2, 1, 0; (421450), 3, 1, 0; (422344), 5, 1, 0; (422589), 6, 1, 0; (423522), 2, 1, 0; (423628), 5, 1, 0; (423685), 6, 1, 0; (427578), 2, 1, 0; (428101), 9, 1, 0; (430657), 2, 1, 0; (430758), 2, 1, 0; (433449), 3, 1, 0; (434096), 4, 2, 1; (437586), 2, 1, 0; (450371), 3, 1, 0; (453722), 10, 1, 0; (456253), 3, 1, 0; (456961), 3, 1, 0; (458211), 2, 1, 0; (459363), 2, 1, 0; (459702), 3, 1, 0; (460525), 2, 1, 0; (461074), 3, 1, 0; (463283), 2, 1, 0; (463397), 2, 1, 0; (464860), 2, 1, 0; (465069), 2, 1, 0; (465076), 3, 1, 0; (465193), 2, 1, 0; (466257), 2, 1, 0; (467321), 4, 1, 0; (468103), 2, 1, 0; (490687), 7, 2, 3; (492149), 2, 1, 0; (495008), 1, 1, 0; (495159), 3, 1, 0; (495256), 4, 1, 0; (495552), 2, 1, 0; (496023), 3, 2, 28; (496029), 8, 1, 0; *[19714, 4318, 0*, 2017/07/04–2017/09/29]*

K96 Savelli Observatory
A. Brosio, Via De Zerbi 3, 89025 Rosarno (RC), Italy
[antonino.brosio@gmail.com]
0.50-m $f/8$ Ritchey-Chrétien + CCD
UCAC-3
(3122), 38, 8, 12; *[38, 1, 0*, 2017/09/10–2017/09/22]*

L00 East Rome Observatory, Rome
F. Chiodi, Via Pio Molajoni 33, Rome 00159, Italy [civuddoppio@yahoo.it]
0.2-m $f/5$ Newtonian reflector + CCD
UCAC-4
(68950), 3, 1, 0; (90075), 3, 1, 0; *[6, 2, 0*, 2017/07/31]*

L01 Višnjan Observatory, Tican
K. Korlević, Istarsks 6, Višnjan HR-52463, Croatia [koradoa@astro.hr]
Observers K. Korlević, B. Obradovic, V. Opacic, L. Rakijar, S. Skvorc, F. Hrzenjak, D. Marusic, E. Pettarin, G. Kervina, T. Sverko, M. Fulle, D. Bektesevic, M. Kosic
1.0-m $f/2.9$ reflector + CCD
USNO-SA2.0, URAT-1, UCAC-4, USNO-A2.0
1998 QO_{52}, 2, 1, 0; 1999 AF_4, 2, 1, 0; 2008 WW_{30}, 3, 1, 0; 2008 YG_{148}, 3, 1, 0; 2012 HH_{24}, 5, 2, 1; 2012 TU_{80}, 8, 3, 2; 2012 TG_{304}, 3, 1, 0; 2013 PA_{54}, 2, 1, 0; 2016 CW_{140}, 3, 1, 0; 2017 OD_1, 4, 1, 0; 2017 OC_{19}, 7, 2, 1; 2017 OU_{68}, 2, 1, 0; 2017 OW_{68}, 4, 2, 1; 2017 PS_{25}, 5, 1, 0; 2017 PX_{25}, 3, 1, 0; 2017 PF_{26}, 3, 1, 0; 2017 PL_{26}, 2, 1, 0; 2017 PY_{26}, 5, 1, 0; 2017 PA_{27}, 2, 1, 0; 2017 PC_{27}, 2, 1, 0; 2017 PO_{27} *, 6, 2, 2; 2017 PP_{27} *, 5, 2, 2; 2017 QB, 4, 1, 0; 2017 QE, 3, 1, 0; 2017 QK, 2, 1, 0; 2017 QS, 3, 1, 0; 2017 QF_1 *, 5, 2, 1; 2017 QG_1 *, 4, 2, 1; 2017 QH_1 *, 4, 2, 1; 2017 QR_1, 3, 1, 0; 2017 QY_1, 4, 1, 0; 2017 QW_3, 5, 2, 1; 2017 QF_{16} *, 5, 2, 1; 2017 QM_{16}, 2, 1, 0; 2017 QJ_{17}, 2, 1, 0; 2017 QH_{18}, 2, 1, 0; 2017 QO_{28}, 3, 1, 0; 2017 QX_{29}, 6, 2, 1; 2017 QT_{31} *, 6, 2, 1; 2017 QU_{31} *, 6, 2, 1; 2017 QV_{31} *, 5, 2, 1; 2017 QW_{31} *, 6, 2, 1; 2017 QX_{31} *, 5, 2, 1; 2017 QY_{31} *, 5, 2, 1; 2017 QH_{32} *, 5, 2, 1; 2017 QJ_{32} *, 5, 2, 1; (2060), 6, 2, 1; (7582), 3, 1, 0; (11640), 2, 1, 0; (13360), 3, 1, 0; (27669), 3, 1, 0; (28078), 3, 1, 0; (28282), 3, 1, 0; (41027), 2, 1, 0; (55555), 3, 1, 0; (80755), 3, 1, 0; (83525), 3, 1, 0; (84418), 3, 1, 0; (99717), 4, 1, 0; (118748), 2, 1, 0; (140915), 3, 1, 0; (158980), 2, 1, 0; (200010), 2, 1, 0; (232159), 3, 1, 0; (244061), 3, 1, 0; (279184), 3, 1, 0; (347412), 3, 1, 0; (350238), 3, 1, 0; (370030), 3, 1, 0; (375861), 3, 1, 0; (376722), 3, 1, 0; (377149), 3, 1, 0; *[258, 72, 14*, 2017/06/26–2017/08/27]*

L02 NOAK Observatory, Stavraki
N. Sioulas, Delfon2, Stavraki, Ioannina, Epirus 455000, Greece
[nsioulas@hotmail.com]
0.20-m $f/6.0$ reflector + CCD
UCAC-4
(480), 6, 2, 1; (601), 6, 2, 1; (619), 6, 2, 1; (2933), 6, 2, 1; *[24, 4, 0*, 2017/06/27–2017/06/29]*

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, UCAC-4
2006 QL_{39}, 2, 1, 0; 2008 UF_{314}, 3, 1, 0; 2013 TS_{114}, 2, 1, 0; 2014 YC_{15}, 6, 2, 21; 2015 BQ_{86}, 2, 1, 0; 2017 BS_5, 4, 2, 1; 2017 BM_{31}, 3, 1, 0; 2017 NH, 3, 1, 0; 2017 NM_6, 5, 2, 10; 2017 OD, 5, 1, 0; 2017 OG_1, 2, 1, 0; 2017 OL_1, 8, 3, 9; 2017 OH_7, 3, 1, 0; 2017 OT_{18}, 5, 2, 6; 2017 PR_{24}, 3, 1, 0; 2017 PS_{25}, 4, 1, 0; 2017 PT_{25}, 7, 3, 12; 2017 PL_{26}, 9, 3, 8; 2017 QS_{16}, 4, 1, 0; 2017 QR_{17}, 2, 1, 0; 2017 QV_{34}, 2, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 RL, 3, 1, 0; 2017 RV_1, 3, 1, 0; 2017 RX_1, 4, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RS_2, 2, 1, 0; 2017 RV_2, 2, 1, 0; 2017 RV_{17}, 5, 1, 0; 2017 SB_2, 2, 1, 0; 2017 SM_2, 3, 1, 0; (1256), 5, 1, 0; (1834), 5, 1, 0; (2660), 5, 1, 0; (3122), 28, 4, 16; (4601), 2, 1, 0; (10413), 2, 1, 0; (11634), 4, 1, 0; (12963), 5, 1, 0; (16018), 10, 1, 0; (19683), 2, 1, 0; (23662), 4, 1, 0; (27099), 2, 1, 0; (29166), 2, 1, 0; (31327), 2, 1, 0; (32401), 2, 1, 0; (32600), 2, 1, 0; (37403), 2, 1, 0; (46569), 2, 1, 0; (50541), 3, 1, 0; (52612), 3, 1, 0; (52947), 2, 1, 0; (60659), 2, 1, 0; (61692), 2, 1, 0; (67377), 2, 1, 0; (67436), 2, 1, 0; (68950), 3, 1, 0; (74785), 2, 1, 0; (75063), 3, 1, 0; (75510), 2, 1, 0; (80035), 3, 1, 0; (100656), 2, 1, 0; (103368), 2, 1, 0; (109272), 2, 1, 0; (109763), 2, 1, 0; (119761), 3, 1, 0; (128113), 2, 1, 0; (135092), 2, 1, 0; (135267), 2, 1, 0; (143746), 2, 1, 0; (147882),

2, 1, 0; (159449), 2, 1, 0; (173019), 3, 1, 0; (190166), 4, 1, 0; (205729), 2, 1, 0; (294739), 3, 1, 0; (321202), 2, 1, 0; (324376), 2, 1, 0; (326388), 4, 1, 0; (338383), 2, 1, 0; (373467), 2, 1, 0; (422699), 3, 1, 0; *[279, 82, 0∗, 2017/07/16–2017/09/24]*

L13 Stardust Observatory, Brasov
L. Brasov, Alexandru cel Brun 3 E25-C-5, Braşov, Braşov 500260, Romania [lucian.curelaru@gmail.com]
Observer L. Curelaru
0.20-m $f/10$ Schmidt-Cassegrain + CCD
UCAC-4
(485), 4, 2, 5; *[4, 1, 0∗, 2017/07/05–2017/07/10]*

L18 QOS Observatory, Zalistci
S. Richchenko, CSIRP and NFC, Zalistci, Khmelnytskyi 32444, Ukraine [kos_dun@dzz.gov.ua]
Observers Y. V. Tanasiychuk, T. O. Dementiev, A. M. Kozhukhov
0.30-m $f/1.0$ astrograph + CCD
UCAC-4
2014 JO_{25}, 110, 1, 0; (419), 9, 2, 3; (456), 8, 2, 3; (509), 8, 2, 3; (704), 8, 2, 3; (3122), 26, 1, 0; *[169, 6, 0∗, 2017/04/19–2017/08/31]*

L21 Ostrov Observatory, Constanţa
M. Conovici, Sos Pantelimon 74, bl 411, ap 50, sect 2, Bucharest, Romania [mconovici@gmail.com]
0.20-m $f/5.0$ reflector + CCD
UCAC-4
(1584), 3, 1, 0; (3122), 15, 1, 0; (6053), 3, 1, 0; *[21, 3, 0∗, 2017/09/02–2017/09/03]*

L23 Schela Observatory
A.-M. Stoian, 13 Str. Principala, no 13, 807265 Schela, Romania [javaboy.mc@gmail.com]
0.13-m $f/5$ reflector + CCD
Gaia-DR1
(46436), 3, 1, 0; *[3, 1, 0∗, 2017/09/29–2017/09/30]*

L33 Ananjev
N. Mishevskiy, st. Nezavisimosti, h.114g, f.8, Ananjev, 66400 Ukraine [nikastro@ukr.net]
Observer N. Mishevskiy
Measurers N. Mishevskiy, S. Khlamov
0.25-m $f/4.7$ reflector + CCD
UCAC-4
2008 UF_{314}, 3, 1, 0; 2015 CW_{21}, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; (1740), 3, 1, 0; (5572), 3, 1, 0; (10721), 3, 1, 0; (12022), 3, 1, 0; (13172), 3, 1, 0; (17445), 3, 1, 0; (21033), 3, 1, 0; (40251), 3, 1, 0; (47650), 3, 1, 0; (51714), 3, 1, 0; (66328), 3, 1, 0; (66998), 3, 1, 0; (81092), 3, 1, 0; (95123), 3, 1, 0; (102148), 3, 1, 0; (103201), 3, 1, 0; (104279), 3, 1, 0; (105758), 3, 1, 0; (120009), 3, 1, 0; (153599), 3, 1, 0; (156264), 3, 1, 0; (198048), 3, 1, 0; (469205), 3, 1, 0; *[78, 26, 0∗, 2017/07/17–2017/09/21]*

L51 MARGO, Nauchnij
G. Borisov, 40g-1 Nauchnij, Crimea 98409, Ukraine [gborisov3@yandex.ru]
Observers G. Borisov, A. Novichonok
0.3-m $f/2$ astrograph + CCD
UCAC-4, CMC-15
2008 EY_{48}, 3, 1, 0; 2014 DZ_{143}, 3, 1, 0; 2015 DK_{198}, 3, 1, 0; 2016 AT_{88}, 3, 1, 0; 2017 OH_{19}, 3, 1, 0; (65880), 2, 1, 0; (72312), 3, 1, 0; *[20, 7, 0∗, 2015/11/05–2017/09/15]*

L71 Vedrus Observatory, Azovskaya
O. Milantiev, Lugovaya 22, Azovskaya, Krasnodarskiy kray 353245, Russia [astrokrasn@gmail.com]
Observer O. Milantiev
Measurer A. Belotsky
0.32-m $f/4$ reflector + CCD
UCAC-4
2017 RJ_{17} ∗, 8, 2, 3; 2017 RK_{17} ∗, 11, 3, 3; 2017 RL_{17} ∗, 8, 2, 3; (435), 5, 1, 0; (3122), 8, 1, 0; (3148), 7, 1, 0; (3338), 5, 1, 0; (3646), 8, 1, 0; (4712), 7, 1, 0; (4721), 8, 1, 0; (8958), 3, 1, 0; (11835), 8, 1, 0; (18202), 5, 1, 0; (18960), 7, 1, 0; (21646), 5, 1, 0; (23973), 8, 1, 0; (26232), 4, 1, 0; (28392), 8, 1, 0; (32311), 6, 1, 0; (32390), 5, 1, 0; (32909), 8, 1, 0; (33619), 3, 1, 0; (36664), 5, 1, 0; (41483), 3, 1, 0; (47733), 5, 1, 0; (50878), 3, 1, 0; (55541), 7, 1, 0; (60959), 8, 1, 0; (61144), 3, 1, 0; (62172), 4, 1, 0; (66994), 5, 1, 0; (67564), 8, 1, 0; (75022), 4, 1, 0; (115108), 5, 1, 0; (143360), 5, 1, 0; (148328), 7, 1, 0; (190033), 4, 1, 0; *[221, 37, 3∗, 2017/07/25–2017/09/18]*

N42 Tien-Shan Astronomical Observatory
L. Elenin, Tien-Shan Astronomical Observatory, Almaty, Republic of Kazakhstan [l.elenin@gmail.com]
Observers I. Reva, A. Serebryanskiy
Measurer A. Novichonok
1.0-m $f/7$ reflector + CCD
PPMXL
2001 YM_{18}, 4, 1, 0; 2017 QA_{34}, 5, 1, 0; *[9, 2, 0∗, 2017/08/28–2017/08/30]*

N87 Nanshan Station, Xinjiang Observatory
G. J. Feng, 150, science-1 street, Xinshiqu, Urumqi, Xinjiang 830011, China [fengguojie@xao.ac.cn]
Observers G. J. Feng, X. Zhang, C. H. Bai, A. Esamdin, L. Ma, N. Wang
Measurers M. Micheli, G. J. Feng, C. H. Bai, X. Zhang, H. B. Niu
1.0-m $f/2.2$ reflector + CCD
UCAC-4, GSC-2.2, Gaia-DR1
2017 NL_6, 3, 1, 0; 2017 PV_{26}, 2, 1, 0; 2017 QS_3, 7, 2, 1; 2017 QV_{34}, 2, 1, 0; 2017 QL_{36} ∗, 7, 2, 10; 2017 QM_{36} ∗, 6, 2, 10; *[27, 6, 2∗, 2017/08/30–2017/09/10]*

P93 Space Tracking and Communications Center, JAXA
A. Asami, 2-1-1, Sengen, Tsukuba-City, Ibaraki 305-8505, Japan [Z-BSGC-NEO@ml.jaxa.jp]
Observers A. Asami, T. Fujiwara, S. Urakawa, S. Okumura, K. Nishiyama, T. Nimura
1.0-m $f/3.0$ reflector + CCD, 0.50-m $f/2.0$ reflector + CCD, 0.25-m $f/5.0$ reflector + CCD
GSC-ACT, UCAC-2, USNO-B1.0
2004 PD_{67}, 4, 1, 0; 2004 RE_{84}, 6, 1, 0; 2017 KR_{34}, 5, 1, 0; 2017 MF, 7, 1, 0; 2017 MY_2, 4, 1, 0; 2017 NM_6, 11, 3, 2; 2017 OB, 4, 1, 0; 2017 OC, 10, 2, 1; 2017 OD, 3, 1, 0; 2017 OE_7, 5, 1, 0; 2017 QK_2, 4, 1, 0; 2017 QP_2, 6, 1, 0; 2017 QL_{32}, 4, 1, 0; 2017 QV_{34}, 4, 1, 0; 2017 QY_{34}, 5, 1, 0; 2017 QH_{35}, 3, 1, 0; 2017 QJ_{35}, 3, 1, 0; 2017 QK_{35}, 4, 1, 0; 2017 QL_{35}, 4, 1, 0; 2017 QT_{35}, 5, 1, 0; 2017 RD, 3, 1, 0; 2017 RP_1, 6, 1, 0; 2017 RU_1, 5, 1, 0; 2017 SM_2, 6, 1, 0; 2017 SP_2, 7, 1, 0; 2017 SB_{11}, 4, 1, 0; 2017 SV_{11}, 3, 1, 0; 2017 SV_{13}, 4, 1, 0; 2017 SN_{14}, 3, 1, 0; 2017 SP_{17}, 4, 1, 0; (2102), 2, 1, 0; (6063), 3, 1, 0; (66391), 4, 1, 0; (142561), 12, 3, 20; (190166), 8, 1, 0; (232368), 4, 1, 0; (237805), 3, 1, 0; (457175), 5, 1, 0; *[187, 38, 0∗, 2017/06/18–2017/09/28]*

Q11 Shinshiro
T. Ikemura, 1-1211 Umegaoka, Tempaku-ku, Nagoya, Aichi, 468-0004 Japan [ikemura_tk@nifty.com]
Observer T. Ikemura
Measurer H. Sato
0.35-m $f/5$ reflector + CCD
UCAC-4, USNO-B1.0

(2060), 3, 1, 0; (6661), 5, 1, 0; (9323), 6, 2, 3; (19164), 3, 1, 0; (21747), 3, 1, 0; (60558), 3, 1, 0; *[23, 6, 0∗, 2017/09/24–2017/09/28]*

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

2016 ND_{21}, 5, 2, 16; (2060), 2, 1, 0; (4491), 2, 1, 0; (7858), 2, 1, 0; (10366), 1, 1, 0; (12115), 2, 1, 0; (18329), 3, 1, 0; (18444), 2, 1, 0; (22354), 2, 1, 0; (24473), 2, 1, 0; (41476), 2, 1, 0; (41915), 2, 1, 0; (44157), 3, 1, 0; (45526), 2, 1, 0; (55945), 3, 1, 0; (60158), 2, 1, 0; (92048), 2, 1, 0; (93726), 3, 1, 0; (93910), 3, 1, 0; (108864), 2, 1, 0; (111284), 2, 1, 0; (114906), 2, 1, 0; (134648), 3, 1, 0; (155706), 2, 1, 0; (162564), 3, 1, 0; (192518), 3, 1, 0; (457175), 3, 1, 0; *[65, 27, 0∗, 2017/07/08–2017/09/18]*

Q58 Siding Spring-LCO Clamshell #1

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]

Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens

0.4-m f/8 Schmidt-Cassegrain + CCD

UCAC-4

2017 OT_{67}, 4, 1, 0; 2017 PB, 3, 1, 0; (123154), 3, 1, 0; *[10, 3, 0∗, 2017/08/01–2017/08/02]*

Q59 Siding Spring-LCO Clamshell #2

T. Lister, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]

Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens, P. Miller, S. Foglia, L. Buzzi, R. Holmes, R. Miles, T. Linde

1.0-m f/8 Ritchey-Chrétien + CCD, 0.4-m f/8 Schmidt-Cassegrain + CCD

Gaia-DR1, UCAC-4, URAT-1, NOMAD

2016 YB_{13}, 3, 1, 0; 2017 OD_1, 5, 1, 0; 2017 OR_{67}, 3, 1, 0; 2017 PC, 4, 1, 0; 2017 PV_{26}, 3, 1, 0; *[18, 5, 0∗, 2017/07/21–2017/09/01]*

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

2001 YB_{100}, 3, 1, 0; 2007 DQ_{76}, 3, 1, 0; 2007 RP_{277}, 6, 2, 23; 2007 VH_{170}, 3, 1, 0; 2014 AD_{29}, 3, 1, 0; 2014 BD_{60}, 3, 1, 0; 2015 MH_{131}, 3, 1, 0; 2015 OZ_{79}, 6, 1, 0; 2015 RE_{246}, 3, 1, 0; 2015 TW_{166}, 3, 1, 0; 2015 VM_{153} ∗, 3, 1, 0; 2016 RK_{42}, 3, 1, 0; 2016 SH_{33}, 3, 1, 0; 2017 DK_{35}, 3, 1, 0; 2017 HX_1, 3, 1, 0; 2017 JU_2, 3, 1, 0; (28610), 3, 1, 0; (133799), 3, 1, 0; *[60, 18, 1∗, 2015/08/17–2017/05/05]*

Q62 iTelescope Observatory, Siding Spring

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (1)

M. Urbanik, Moyzesova 1827, Èadca, 02201, Slovak Republic [stone@astronomie.cz] (2)

C. Jacques, P.O. Box 1084, Belo Horizonte, BR-30000 Minas Gerais, Brazil [cjacqueslf@yahoo.com.br] (5)

E. Bryssinck, Eyckensbeekstraat 2, 9150 Kruibeke, Belgium [erik.bryssinck@telenet.be] (6)

N. Falla, 34 Orchard Road, Chessington Surrey, KT9 1AN, U.K. [n.falla@btopenworld.com] (8)

P. S. Lau, Flat 5B, Block B, Mountain Court, 5 HoManTin Hill Road, Kowloon, Hong Kong [mail@betty-lau.com] (17)

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

B. Dawson, no details supplied [bennydcanada@hotmail.com] (26)

S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (30)

S. Foglia, C. Gariboldi 11, Novara Veveri, I-28100 Italy [se.foglia@gmail.com] (32)

S. Kürti, Gugska 27, 940 82 Nove Zamky, Slovakia [stefan@skaw.sk] (33)

D. Brandt, 2624 Cedar Crest Rd W, Minnetonka, MN 55305, U.S.A. [brandtdr@earthlink.net] (41)

W. Romanishin, 1933 Whispering Pines Cir, Norman OK 73072, U.S.A. [wromanishin@ou.edu] (48)

J.-C. Merlin, 18 rue P.Mendes-France, 71200 Le Creusot, France [jcmerlin@wanadoo.fr] (49)

D. Denisenko, no details supplied [d.v.denisenko@gmail.com] (51)

G. Gašparović, Badaliceva 25, 10000 Zagreb, Croatia [gasparovic@actarius.hr] (54)

W. Clark, no details supplied [] (57)

G. Crinklaw, no details supplied [crinklaw@tularosa.net] (58)

V. Grossi, 834 W Old Mill Road, Lake Forest, IL 60045, U.S.A. [vgro@aol.com] (59)

Observers D. Denisenko, W. Clark, M. Suzuki, M. Urbanik, J.-C. Merlin, C. Jacques, E. Pimentel, J. Barros, S. Kürti, G. Gašparović, Y. Chen, H. Sato, S. M. Tilley, D. Brandt, R. Ligustri, N. Falla, W. Romanishin, B. C. Dawson, E. Guido, E. Bryssinck, V. Grossi, G. van Buitenen, G. Crinklaw, N. James, D. Storey, E. Arsekin, P. Jochum, K. Huang, S. Zhang, J. Doherty, S. Handoko, L. Grossman, A. Zheng, K. Sokolovsky, B. Lütkenhöner, S. Foglia, L. Buzzi, P. Concari, C. Cremaschini, G. Galli, M. Tombelli, N. Paul, P. S. Lau, G. Gaspraovic

Measurers W. Clark, M. Suzuki, M. Urbanik, J.-C. Merlin, C. Jacques, S. Kürti, G. Gašparović, Y. Chen, H. Sato, G. Y. Chen, S. M. Tilley, D. Brandt, R. Ligustri, N. Falla, W. Romanishin, B. C. Dawson, E. Guido, E. Bryssinck, V. Grossi, G. van Buitenen, G. Crinklaw, D. Storey, E. Arsekin, P. Jochum, K. Huang, S. Zhang, J. Doherty, S. Handoko, L. Grossman, A. Zheng, B. Lütkenhöner, S. Foglia, L. Buzzi, P. Concari, C. Cremaschini, G. Galli, M. Tombelli, D. Denisenko, I. Albatovskiy, N. Paul, P. S. Lau

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

USNO-B1.0, UCAC-4, UCAC-3, NOMAD, PPMXL, Gaia-DR1, CMC-15, 2MASS

{17} 2015 DD_{97}, 8, 2, 1; 2015 DE_{152}, 12, 3, 2; 2016 NM_{58}, 3, 1, 0; 2017 OV_{40}, 19, 3, 2; 2017 RY_2 ∗, 31, 7, 17; 2017 RZ_2 ∗, 40, 8, 19; 2017 RT_3 ∗, 8, 2, 2; 2017 RS_6, 20, 4, 3; 2017 RO_{12} ∗, 7, 2, 2; 2017 RP_{12} ∗, 15, 4, 4; 2017 RQ_{12} ∗, 24, 4, 3; 2017 RR_{12} ∗, 8, 2, 1; 2017 RS_{12} ∗, 16, 4, 3; 2017 RU_{12} ∗, 16, 4, 4; 2017 RW_{13} ∗, 7, 2, 1; 2017 RX_{13} ∗, 6, 2, 1; 2017 RY_{13} ∗, 20, 4, 3; 2017 RZ_{13} ∗, 8, 2, 1; 2017 SD ∗, 7, 2, 1; 2017 SJ ∗, 20, 2, 1; 2017 SK ∗, 28, 4, 5; 2017 SK_1 ∗, 11, 3, 3; 2017 SM_1 ∗, 8, 2, 1; 2017 SN_1 ∗, 8, 2, 1; 2017 SF_9 ∗, 16, 3, 2; 2017 SG_9 ∗, 6, 2, 1; 2017 SM_9 ∗, 8, 2, 1; 2017 SO_9 ∗, 8, 2, 1; 2017 SS_9 ∗, 6, 2, 1; 2017 ST_9 ∗, 6, 2, 1; 2017 SU_9 ∗, 13, 2, 1; 2017 SV_9 ∗, 8, 2, 1; 2017 SW_9 ∗, 6, 2, 1; 2017 SX_9 ∗, 12, 3, 2; 2017 SY_9 ∗, 9, 3, 2; 2017 SZ_9 ∗, 11, 3, 2; 2017 SZ_{14} ∗, 7, 2, 2; 2017 SA_{15} ∗, 8, 2, 2; 2017 SM_{15} ∗, 6, 2, 2; (732), 4, 1, 0; (2633), 8, 2, 3; (2765), 12, 3, 2; (2775), 8, 2, 24; (2923), 8, 2, 2; (4032), 12, 2, 1; (5532), 16, 3, 2; (5629), 4, 1, 0; (6390), 4, 1, 0; (7277), 4, 1, 0; (7504), 4, 1, 0; (7728), 16, 2, 1; (8346), 11, 3, 2; (8629), 4, 1, 0; (8713), 4, 1, 0; (9236), 8, 1, 0; (11004), 16, 4, 11; (11292), 4, 1, 0; (11376), 12, 3, 2; (11694), 8, 2, 9; (12063), 8, 2, 2; (12178), 16, 4, 3; (12545), 4, 1, 0; (12665), 12, 3, 2; (14540), 40, 5, 10; (14590), 4, 1, 0; (15544), 28, 5, 10; (15614), 4, 1, 0; (15862), 4, 1, 0; (16907), 8, 2, 1; (17211), 20, 3, 2; (17329), 4, 1, 0; (17763), 8, 2, 2; (18075), 4, 1, 0; (18609), 8, 2, 1; (19023), 4, 1, 0; (19383), 4, 1, 0; (21214), 12, 3, 2; (21592), 8, 2, 2; (22480), 4, 1, 0; (22547), 16, 4, 12; (22568), 12, 3, 2; (22593), 4, 1, 0; (22809), 8, 2, 7; (23204), 12, 3, 3; (23663), 12, 3, 27; (24766), 4, 1, 0;

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{1} 2016 VY_{17}, 3, 1, 0; 2016 YB_{13}, 6, 2, 3; 2017 MZ_4, 2, 1, 0; 2017 SV_{13}, 3, 1, 0; (3575), 2, 1, 0; (4509), 3, 1, 0; (8438), 2, 1, 0; (11209), 2, 1, 0; (12825), 2, 1, 0; (13572), 2, 1, 0; (17067), 2, 1, 0; (21344), 2, 1, 0; (23021), 2, 1, 0; (31405), 3, 1, 0; (35438), 2, 1, 0; (45439), 2, 1, 0; (50039), 2, 1, 0; (64545), 3, 1, 0; (70670), 3, 1, 0; (74627), 3, 1, 0; (85206), 3, 1, 0; (143265), 3, 1, 0; (164246), 2, 1, 0; (185721), 2, 1, 0; (205590), 3, 1, 0; (214567), 2, 1, 0; (224538), 3, 1, 0; (271794), 3, 1, 0; (309916), 2, 1, 0; (327740), 3, 1, 0; (328673), 3, 1, 0; (382777), 3, 1, 0; (385258), 2, 1, 0; (472021), 3, 1, 0; *[88, 34, 0∗, 2017/06/25–2017/09/19]*

{2} 1989 VB, 3, 1, 0; 2015 CN_{62}, 2, 1, 0; 2017 NS_5, 2, 1, 0; 2017 NT_5, 3, 1, 0; 2017 NN_6, 3, 1, 0; (3122), 4, 1, 0; *[17, 6, 0∗, 2015/03/18–2017/09/12]*

{5} 2017 NT_5, 6, 1, 0; 2017 NN_6, 10, 1, 0; *[16, 2, 0∗, 2017/07/13–2017/07/17]*

{6} (3895), 10, 1, 0; (5513), 17, 2, 3; *[27, 2, 0∗, 2017/09/17–2017/09/20]*

{8} 2006 OQ_{23}, 6, 2, 1; 2012 BZ_{24}, 11, 3, 18; 2012 UW_{29}, 11, 4, 19; 2013 YC_{125}, 10, 3, 2; 2015 BB_{474}, 26, 7, 61; 2015 DL_{196}, 4, 1, 0; 2016 KN_2, 8, 2, 2; 2016 UB_3, 7, 2, 6; 2017 OS_1, 4, 1, 0; 2017 OT_1, 4, 1, 0; 2017 QY_{25}, 3, 1, 0; 2017 RL_{12} ∗, 10, 2, 1; *[104, 12, 1∗, 2015/02/17–2017/09/22]*

{41} 2017 QJ, 2, 1, 0; 2017 RY_{15}, 3, 1, 0; (5685), 2, 1, 0; (85565), 3, 1, 0; (98609), 3, 1, 0; (153877), 3, 1, 0; (164564), 3, 1, 0; (168940), 3, 1, 0; (173582), 3, 1, 0; (200492), 3, 1, 0; (203325), 3, 1, 0; (288253), 3, 1, 0; (290606), 3, 1, 0; (312727), 3, 1, 0; (372686), 3, 1, 0; (415136), 2, 1, 0; (430323), 3, 1, 0; (467241), 3, 1, 0; *[51, 18, 0∗, 2017/07/21–2017/09/16]*

{48} 2017 OD_1, 3, 1, 0; *[3, 1, 0∗, 2017/07/22]*

{49} 2008 RJ_{106}, 7, 2, 1; 2010 TA_{56}, 3, 1, 0; 2013 RW_{53}, 4, 1, 0; 2013 WP_{86}, 4, 1, 0; 2015 AF_{143}, 6, 2, 1; 2015 AT_{232}, 3, 1, 0; 2017 OR_4 ∗, 11, 3, 3; 2017 OS_4 ∗, 8, 2, 1; 2017 OC_5 ∗, 7, 2, 1; 2017 OR_6 ∗, 16, 4, 3; 2017 OA_{11} ∗, 10, 3, 2; 2017 OB_{12} ∗, 7, 2, 1; 2017 OC_{12} ∗, 4, 1, 0; 2017 OD_{12} ∗, 4, 1, 0; 2017 OL_{12} ∗, 3, 1, 0; 2017 OF_{20} ∗, 7, 2, 3; 2017 OA_{21} ∗, 9, 3, 3; 2017 OT_{21}, 7, 2, 2; 2017 OE_{22} ∗, 7, 2, 1; 2017 OF_{22} ∗, 7, 2, 1; (1666), 4, 1, 0; (1886), 4, 1, 0; (5491), 12, 3, 3; (8344), 4, 1, 0; (9235), 4, 1, 0; (11042), 7, 2, 1; (11495), 3, 1, 0; (16232), 4, 1, 0; (16711), 8, 2, 2; (19828), 4, 1, 0; (21737), 3, 1, 0; (22910), 4, 1, 0; (28061), 4, 1, 0; (35587), 4, 1, 0; (54833), 4, 1, 0; (54927), 8, 2, 1; (57267), 4, 1, 0; (57658), 4, 1, 0; (64441), 4, 1, 0; (66103), 8, 2, 1; (76986), 6, 2, 1; (77257), 4, 1, 0; (81277), 8, 2, 1; (84761), 16, 4, 3; (85426), 4, 1, 0; (88388), 8, 2, 1; (89263), 3, 1, 0; (90606), 7, 2, 1; (91595), 4, 1, 0; (93639), 3, 1, 0; (96585), 15, 4, 3; (97586), 4, 1, 0; (102920), 8, 2, 1; (116124), 4, 1, 0; (120118), 3, 1, 0; (121930), 8, 2, 1; (128220), 15, 4, 3; (130720), 4, 1, 0; (131698), 4, 1, 0; (134153), 8, 2, 1; (135914), 4, 1, 0; (142268), 11, 3, 3; (143833), 16, 4, 3; (157566), 8, 2, 1; (163090), 14, 4, 3; (163119), 8, 2, 1; (169321), 7, 2, 1; (175927), 4, 1, 0; (180500), 4, 1, 0; (183050), 4, 1, 0; (184089), 12, 3, 2; (202692), 8, 2, 2; (204142), 7, 2, 1; (211176), 12, 3, 3; (234388), 8, 2, 1; (235510), 4, 1, 0; (240345), 3, 1, 0; (246459), 14, 4, 3; (246654), 8, 2, 1; (251918), 3, 1, 0; (265763), 3, 1, 0; (266888), 16, 4, 3; (275659), 4, 1, 0; (289405), 15, 4, 3; (289440), 6, 2, 1; (318105), 3, 1, 0; (327323), 3, 1, 0; (331158), 4, 1, 0; (334959), 15, 4, 3; (337615), 10, 3, 3; (361078), 14, 4, 3; (361101), 13, 4, 3; (368445), 7, 2, 1; (369102), 10, 3, 3; (390794), 3, 1, 0; (410400), 3, 1, 0; (416226), 4, 1, 0; (419729), 4, 1, 0; (423548), 4, 1, 0; (423767), 4, 1, 0; (425180), 14, 4, 3; (426205), 7, 2, 1; (462300), 7, 2, 1; (462620), 4, 1, 0; (464311), 7, 2, 1; (465193), 12, 3, 2; (466208), 7, 2, 1; (466478), 3, 1, 0; (468227), 3, 1, 0; (496071), 4, 1, 0; *[743, 110, 13∗, 2017/07/12–2017/07/27]*

{51} 2017 NL_2, 4, 1, 0; 2017 NS_5, 3, 1, 0; 2017 PL_{26}, 3, 1, 0; *[10, 3, 0∗, 2017/07/06–2017/08/15]*

{54} 2015 CS_1, 3, 1, 0; 2017 OL ∗, 6, 2, 2; 2017 OQ_1 ∗, 6, 2, 10; 2017 OO_3, 3, 1, 0; 2017 OS_{48}, 2, 1, 0; 2017 OT_{48}, 2, 1, 0; 2017 OE_{54}, 3, 1, 0; 2017 PM_{27} ∗, 3, 1, 0; 2017 PN_{27} ∗, 3, 1, 0; 2017 QD_1 ∗, 3, 1, 0; 2017 QE_1 ∗, 3, 1, 0; (3884), 2, 1, 0; (52532), 3, 1, 0; (81996), 3, 1, 0; (119405), 3, 1, 0; (169747), 3, 1, 0; (205725), 3, 1, 0; (425409), 3, 1, 0; *[57, 18, 6∗, 2017/07/14–2017/09/15]*

{57} (457175), 6, 3, 29; *[6, 1, 0∗, 2017/07/04–2017/08/02]*

{58} 2009 SX_{45}, 3, 1, 0; 2013 RR_{84}, 2, 1, 0; 2017 OP_{68}, 3, 1, 0; 2017 QC_{35}, 5, 2, 2; 2017 QJ_{35}, 2, 1, 0; 2017 QQ_{35}, 2, 1, 0; (538), 5, 2, 1; (1027), 3, 1, 0; (2165), 3, 1, 0; (2507), 3, 1, 0; (2769), 3, 1, 0; (4307), 2, 1, 0; (7929), 5, 2, 1; (8191), 2, 1, 0; (8770), 3, 1, 0; (10389), 3, 1, 0; (11410), 2, 1, 0; (12089), 3, 1, 0; (16788), 5, 2, 1; (17331), 3, 1, 0; (18214), 2, 1, 0; (20801), 2, 1, 0; (24526), 3, 1, 0; (24965), 2, 1, 0; (24971), 2, 1, 0; (25711), 3, 1, 0; (27561), 2, 1, 0; (30982), 3, 1, 0; (33212), 3, 1, 0; (36804), 3, 1, 0; (39301), 3, 1, 0; (39354), 3, 1, 0; (39364), 2, 1, 0; (39571), 3, 1, 0; (46302), 5,

2, 1; (47119), 2, 1, 0; (50985), 2, 1, 0; (52917), 5, 2, 1; (53366), 2, 1, 0; (56295), 2, 1, 0; (58591), 3, 1, 0; (70370), 2, 1, 0; (70477), 5, 2, 18; (72924), 2, 1, 0; (75267), 2, 1, 0; (76750), 2, 1, 0; (77752), 3, 1, 0; (77895), 2, 1, 0; (81691), 3, 1, 0; (81996), 3, 1, 0; (83434), 3, 1, 0; (90260), 2, 1, 0; (93980), 3, 1, 0; (96196), 3, 1, 0; (98583), 3, 1, 0; (106981), 5, 2, 1; (108864), 3, 1, 0; (110571), 5, 2, 1; (116697), 3, 1, 0; (118733), 3, 1, 0; (134702), 2, 1, 0; (153943), 2, 1, 0; (165087), 2, 1, 0; (178553), 5, 2, 1; (192685), 2, 1, 0; (219444), 2, 1, 0; (237527), 3, 1, 0; (244986), 2, 1, 0; (250332), 3, 1, 0; (254536), 3, 1, 0; (262205), 3, 1, 0; (267093), 2, 1, 0; (288665), 2, 1, 0; (314025), 2, 1, 0; (333478), 2, 1, 0; (336144), 2, 1, 0; (341517), 3, 1, 0; (370083), 2, 1, 0; (384724), 3, 1, 0; *[223, 79, 0∗, 2017/07/23–2017/09/08]*

{59} (137799), 3, 1, 0; *[3, 1, 0∗, 2017/09/12]*

{25} 2017 NS_5, 3, 1, 0; 2017 NT_5, 4, 1, 0; 2017 NN_6, 3, 1, 0; *[10, 3, 0∗, 2017/07/11–2017/07/15]*

{26} (23102), 3, 1, 0; (53910), 3, 1, 0; (74095), 3, 1, 0; (250023), 2, 1, 0; (280985), 3, 1, 0; (378235), 3, 1, 0; *[17, 6, 0∗, 2016/07/03]*

{30} 2014 WZ_{24}, 3, 1, 0; 2017 MB_1, 3, 1, 0; 2017 OD_1, 3, 1, 0; 2017 OR_{19}, 2, 1, 0; 2017 QR_{35}, 6, 2, 1; (42893), 3, 1, 0; (45832), 3, 1, 0; (104589), 3, 1, 0; (134152), 3, 1, 0; (171936), 3, 1, 0; (274610), 3, 1, 0; (312093), 3, 1, 0; (334939), 3, 1, 0; (358983), 3, 1, 0; (420015), 3, 1, 0; *[47, 15, 0∗, 2017/07/17–2017/09/02]*

{32} 1989 VB, 23, 10, 42; 2000 BE_{19}, 2, 1, 0; 2004 FU_4, 5, 2, 3; 2004 RE_{84}, 3, 1, 0; 2008 UF_{314}, 3, 1, 0; 2013 SW_{42}, 3, 1, 0; 2013 TC_{36}, 2, 1, 0; 2015 FO_{124}, 3, 1, 0; 2016 VY_{17}, 3, 1, 0; 2017 FQ_{64}, 5, 2, 6; 2017 MZ_4, 3, 1, 0; 2017 NN_2, 3, 1, 0; 2017 OP_{68}, 9, 3, 9; 2017 PJ_{26}, 3, 1, 0; 2017 PL_{26}, 6, 2, 2; 2017 PV_{26}, 3, 1, 0; 2017 QQ_1, 3, 1, 0; 2017 QR_{17}, 3, 1, 0; 2017 QN_{18}, 3, 1, 0; 2017 QV_{34}, 3, 1, 0; 2017 QY_{34}, 3, 1, 0; 2017 QJ_{35}, 3, 1, 0; 2017 QR_{35}, 3, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RS_2, 3, 1, 0; 2017 RV_2, 6, 2, 2; 2017 RY_{15}, 3, 1, 0; 2017 SE_2, 3, 1, 0; 2017 SN_2, 3, 1, 0; 2017 SD_{12}, 4, 1, 0; (482), 3, 1, 0; (1003), 2, 1, 0; (3122), 20, 6, 9; (4601), 2, 1, 0; (7339), 2, 1, 0; (10199), 4, 2, 3; (10366), 2, 1, 0; (11013), 2, 1, 0; (11969), 2, 1, 0; (13147), 2, 1, 0; (15582), 3, 1, 0; (18214), 3, 1, 0; (18360), 3, 1, 0; (19141), 3, 1, 0; (19968), 2, 1, 0; (21198), 2, 1, 0; (24543), 2, 1, 0; (28603), 3, 1, 0; (29695), 2, 1, 0; (31399), 2, 1, 0; (34036), 2, 1, 0; (39356), 2, 1, 0; (42284), 3, 1, 0; (43129), 2, 1, 0; (43256), 3, 1, 0; (44220), 2, 1, 0; (45341), 2, 1, 0; (45694), 2, 1, 0; (48040), 3, 1, 0; (51390), 2, 1, 0; (56295), 3, 1, 0; (56768), 3, 1, 0; (56896), 2, 1, 0; (61363), 2, 1, 0; (63586), 3, 1, 0; (68397), 3, 1, 0; (70158), 3, 1, 0; (70370), 3, 1, 0; (78890), 3, 1, 0; (81691), 2, 1, 0; (81700), 2, 1, 0; (82669), 2, 1, 0; (84108), 2, 1, 0; (90859), 3, 1, 0; (93437), 3, 1, 0; (105339), 2, 1, 0; (108864), 2, 1, 0; (109763), 2, 1, 0; (111680), 2, 1, 0; (115100), 3, 1, 0; (118469), 3, 1, 0; (124614), 2, 1, 0; (132163), 3, 1, 0; (132963), 2, 1, 0; (133635), 2, 1, 0; (134340), 2, 1, 0; (154589), 3, 1, 0; (164346), 3, 1, 0; (168486), 2, 1, 0; (169149), 3, 1, 0; (182426), 3, 1, 0; (203309), 3, 1, 0; (219444), 3, 1, 0; (317765), 2, 1, 0; (350425), 2, 1, 0; (369282), 3, 1, 0; (457175), 3, 1, 0; (496005), 3, 1, 0; *[311, 98, 0∗, 2017/08/10–2017/09/22]*

{33} (130329), 3, 1, 0; (460546), 3, 1, 0; *[6, 2, 0∗, 2017/07/13]*

Q63 Siding Spring-LCO A

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers P.-J. Dekelver, W. Cuppens, T. Lister, S. Greenstreet, E. Gomez
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4, Gaia-DR1

2017 RZ_1, 3, 1, 0; 2017 RQ_{14}, 4, 1, 0; 2017 RS_{14}, 3, 1, 0; (132811), 4, 1, 0; (242060), 2, 1, 0; *[16, 5, 0∗, 2017/09/11–2017/09/22]*

Q64 Siding Spring-LCO B

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers P.-J. Dekelver, W. Cuppens, T. Lister, S. Greenstreet, E. Gomez, P. Miller, R. Holmes, L. Buzzi, S. Foglia, R. Miles, T. Linder
1.0-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4, Gaia-DR1

2016 YB_{13}, 2, 1, 0; 2017 RT_{17}, 4, 1, 0; *[6, 2, 0∗, 2017/09/11–2017/09/19]*

Q65 Warrumbungle Observatory

P. Starr, 841 Timor Rd, Coonabarabran NSW 2357, Australia [starr_peter@hotmail.com]
Observers R. Dymock, M. Lott, A. Watkins
0.51-m $f/6.8$ Corrected Dall-Kirkham + CCD
UCAC-4, PPMXL

(12), 4, 1, 0; (94), 7, 2, 40; (447), 4, 1, 0; (1597), 3, 1, 0; (2026), 4, 1, 0; (3122), 4, 1, 0; (138925), 8, 2, 7; *[34, 7, 0∗, 2017/07/06–2017/08/16]*

Q68 Blue Mountains Observatory, Leura

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

1989 VB, 7, 3, 3; (198), 2, 1, 0; (270), 2, 1, 0; (883), 2, 1, 0; (944), 10, 3, 8; (4786), 10, 2, 1; (9451), 5, 2, 7; (13560), 4, 2, 1; (14451), 4, 2, 1; (17051), 4, 2, 1; (20340), 4, 2, 2; (28030), 2, 1, 0; (28660), 4, 2, 1; (31539), 2, 1, 0; (32981), 8, 4, 7; (33067), 2, 1, 0; (34747), 2, 1, 0; (40552), 4, 2, 2; (44747), 4, 2, 1; (48694), 2, 1, 0; (53655), 4, 2, 1; (56975), 4, 2, 1; (57377), 2, 1, 0; (58024), 2, 1, 0; (60611), 8, 4, 8; (64668), 2, 1, 0; (75483), 2, 1, 0; (88401), 2, 1, 0; (94396), 2, 1, 0; (97783), 2, 1, 0; (99717), 8, 4, 5; (103192), 2, 1, 0; (104432), 2, 1, 0; (105160), 4, 2, 1; (117117), 2, 1, 0; (120644), 2, 1, 0; (127743), 2, 1, 0; (128560), 2, 1, 0; (129966), 2, 1, 0; (154589), 10, 3, 3; (166812), 2, 1, 0; (169610), 2, 1, 0; (182182), 2, 1, 0; (187698), 2, 1, 0; (205441), 4, 2, 1; (209510), 2, 1, 0; (231975), 2, 1, 0; (238484), 2, 1, 0; (242281), 2, 1, 0; (246362), 2, 1, 0; (263859), 2, 1, 0; (270365), 2, 1, 0; (306869), 2, 1, 0; (312976), 2, 1, 0; (372929), 2, 1, 0; (424942), 3, 2, 2; (457175), 2, 1, 0; *[187, 57, 0∗, 2017/05/05–2017/09/16]*

R58 Beverly-Begg Observatory, Dunedin

P. D. Jaquiery, 31 Wright Street, Dunedin 9010, New Zealand [peter.jaquiery@ihug.co.nz]
0.36-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4

2017 NN_6, 4, 1, 0; (154589), 2, 1, 0; *[6, 2, 0∗, 2017/07/15]*

T03 Haleakala-LCO Clamshell #3

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens, P. Miller, R. Holmes, S. Foglia, L. Buzzi
0.4-m $f/8$ Schmidt-Cassegrain + CCD
Gaia-DR1, URAT-1, NOMAD

2017 PD_{31}, 4, 1, 0; 2017 SB_{11}, 3, 1, 0; (11027), 18, 3, 3; (15768), 4, 1, 0; (16208), 18, 3, 3; (16843), 4, 1, 0; (26272), 20, 2, 3; (96083), 4, 1, 0; (107425), 10, 1, 0; (135112), 7, 1, 0; (147575), 19, 2, 3; (165209), 3, 1, 0; (228924), 12, 1, 0; (264466), 7, 1, 0; (346131), 3, 1, 0; (373295), 9, 1, 0; *[145, 16, 0∗, 2017/06/13–2017/09/22]*

T04 Haleakala-LCO OGG B #2

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]
Observers P.-J. Dekelver, W. Cuppens, T. Lister, S. Greenstreet, E. Gomez
0.4-m $f/8$ Schmidt-Cassegrain + CCD
URAT-1, Gaia-DR1

2012 US_{32}, 3, 1, 0; 2017 QJ_{35}, 6, 1, 0; 2017 SZ_1, 4, 1, 0; 2017 SE_{11}, 3, 1, 0; 2017 SW_{11}, 3, 1, 0; (70370), 6, 1, 0; (294658), 3, 1, 0; *[28, 7, 0∗, 2017/09/02–2017/09/23]*

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
0.5-m $f/2.0$ Schmidt + CCD
2MASS

1989 UP, 12, 2, 4; 1989 VB, 4, 1, 0; 1993 RA, 12, 2, 12; 1998 SB_{15}, 10, 2, 2; 1998 SZ_{27}, 16, 3, 8; 1999 RB_{30}, 12, 3, 36; 1999 TJ_{12}, 3, 1, 0; 1999 TS_{312}, 4, 1, 0; 1999 VD_{116}, 10, 2, 4; 2000 OA_{51},

28, 6, 62; 2000 QB_{56}, 24, 5, 33; 2000 RZ_{12}, 25, 6, 36; 2000 SH_5, 7, 1, 0; 2000 SJ_9, 25, 5, 32; 2000 SN_{21}, 4, 1, 0; 2000 SV_{43}, 4, 1, 0; 2000 SV_{180}, 11, 3, 28; 2000 SH_{233}, 16, 4, 28; 2000 SZ_{317}, 24, 5, 62; 2000 SF_{369}, 6, 1, 0; 2000 TA_{45}, 12, 3, 18; 2000 UF_{44}, 13, 2, 8; 2000 VR_{23}, 8, 2, 16; 2000 WK_{159}, 4, 1, 0; 2000 XO_8, 35, 9, 53; 2001 AT_{47}, 19, 4, 37; 2001 NJ_6, 5, 1, 0; 2001 OB_{74}, 4, 1, 0; 2001 PS_4, 28, 6, 50; 2001 PK_5, 4, 1, 0; 2001 QR_{108}, 6, 1, 0; 2001 QK_{187}, 39, 8, 62; 2001 QM_{208}, 4, 1, 0; 2001 RW_{119}, 33, 5, 16; 2001 SG_{132}, 11, 2, 18; 2001 SH_{222}, 8, 1, 0; 2001 SV_{229}, 25, 6, 36; 2001 SX_{288}, 16, 4, 19; 2001 SF_{344}, 8, 2, 12; 2001 TP_{147}, 4, 1, 0; 2001 TL_{205}, 6, 1, 0; 2001 TR_{262}, 4, 1, 0; 2001 UP_{112}, 4, 1, 0; 2001 UQ_{163}, 6, 1, 0; 2001 UJ_{219}, 9, 1, 0; 2001 VY_2, 6, 1, 0; 2001 VA_6, 5, 1, 0; 2001 VE_{134}, 4, 1, 0; 2002 LD_{63}, 6, 1, 0; 2002 OJ_{29}, 8, 1, 0; 2002 OT_{32}, 15, 2, 20; 2002 PR_7, 20, 3, 11; 2002 PG_{83}, 11, 3, 49; 2002 QF_{157}, 24, 6, 28; 2002 RP_{28}, 12, 3, 11; 2002 RP_{122}, 18, 4, 28; 2002 RL_{170}, 4, 1, 0; 2002 RR_{174}, 13, 3, 12; 2002 RG_{296}, 4, 1, 0; 2002 TC_{142}, 4, 1, 0; 2002 TV_{182}, 20, 5, 24; 2002 TZ_{218}, 4, 1, 0; 2002 TR_{278}, 6, 1, 0; 2002 TU_{388}, 12, 3, 16; 2002 UX_{34}, 20, 4, 39; 2002 VN_{14}, 4, 1, 0; 2002 XN_{99}, 16, 3, 49; 2003 KB_{36}, 23, 4, 36; 2003 QS_1, 12, 2, 16; 2003 QW_{30}, 4, 1, 0; 2003 QP_{49}, 8, 2, 3; 2003 QG_{93}, 4, 1, 0; 2003 QU_{93}, 11, 2, 4; 2003 QL_{95}, 9, 2, 12; 2003 RV, 8, 2, 12; 2003 SD, 4, 1, 0; 2003 SP_{54}, 6, 1, 0; 2003 SQ_{166}, 21, 5, 19; 2003 SL_{205}, 5, 1, 0; 2003 SX_{209}, 4, 1, 0; 2003 SC_{278}, 8, 2, 3; 2003 SR_{278}, 9, 2, 4; 2003 SV_{303}, 8, 2, 8; 2003 SW_{327}, 10, 2, 17; 2003 SG_{331}, 4, 1, 0; 2003 UD_{40}, 11, 2, 16; 2003 UL_{102}, 5, 1, 0; 2003 UP_{165}, 12, 3, 20; 2003 UF_{190}, 4, 1, 0; 2003 WQ_{42}, 8, 2, 16; 2003 WW_{59}, 4, 1, 0; 2003 YA_{59}, 16, 4, 16; 2004 CM_{17}, 4, 1, 0; 2004 LF_2, 4, 1, 0; 2004 MA_7, 4, 1, 0; 2004 NO_6, 29, 6, 44; 2004 NR_{23}, 4, 1, 0; 2004 PO_{15}, 8, 2, 12; 2004 PU_{19}, 20, 4, 16; 2004 PB_{43}, 7, 1, 0; 2004 PY_{47}, 5, 1, 0; 2004 PD_{67}, 8, 2, 16; 2004 PZ_{69}, 17, 3, 16; 2004 PB_{70}, 4, 1, 0; 2004 PS_{95}, 4, 1, 0; 2004 PV_{97}, 16, 4, 17; 2004 QO_{13}, 5, 1, 0; 2004 QO_{26}, 14, 3, 12; 2004 RM_6, 4, 1, 0; 2004 RO_9, 8, 2, 16; 2004 RE_{10}, 16, 4, 23; 2004 RE_{15}, 13, 2, 8; 2004 RB_{20}, 26, 5, 34; 2004 RE_{84}, 7, 2, 8; 2004 RL_{104}, 4, 1, 0; 2004 RP_{144}, 13, 3, 17; 2004 RJ_{185}, 8, 2, 4; 2004 RW_{191}, 4, 1, 0; 2004 RE_{197}, 4, 1, 0; 2004 RT_{208}, 8, 2, 4; 2004 RT_{212}, 4, 1, 0; 2004 RH_{316}, 4, 1, 0; 2004 SS, 17, 3, 9; 2004 SG_5, 25, 6, 32; 2004 TF_9, 8, 2, 12; 2004 TD_{10}, 7, 2, 4; 2004 TQ_{13}, 8, 2, 12; 2004 TS_{55}, 5, 1, 0; 2004 TA_{93}, 8, 2, 4; 2004 TZ_{127}, 8, 2, 12; 2004 XY_{44}, 4, 1, 0; 2005 AA_{23}, 8, 1, 0; 2005 JW_{185}, 14, 2, 12; 2005 NR_{29}, 7, 1, 0; 2005 NB_{33}, 4, 1, 0; 2005 SS_{84}, 8, 2, 12; 2005 SK_{110}, 9, 2, 4; 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T08 ATLAS-MLO, Mauna Loa

J. Tonry, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Dr., Honolulu, HI 86822, U.S.A. [jt@ifa.hawaii.edu]
Observers L. Denneau, A. Heinze, H. Weiland, B. Stalder, J. Tonry
0.5-m $f/2.0$ Schmidt + CCD
2MASS

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(430305), 45, 10, 72; (430329), 4, 1, 0; (430435), 4, 1, 0; (430444), 10, 2, 44; (430520), 4, 1, 0; (430560), 16, 4, 48; (430637), 4, 1, 0; (430643), 12, 3, 16; (430646), 15, 3, 21; (430657), 4, 1, 0; (430663), 21, 4, 16; (430753), 4, 1, 0; (430755), 4, 1, 0; (430758), 8, 2, 8; (430776), 11, 2, 8; (430990), 4, 1, 0; (431032), 4, 1, 0; (431162), 6, 1, 0; (431195), 5, 1, 0; (431196), 4, 1, 0; (431279), 9, 2, 2; (431786), 6, 1, 0; (431818), 16, 4, 13; (431849), 14, 3, 16; (431871), 8, 2, 8; (431883), 4, 1, 0; (431970), 22, 5, 44; (432272), 4, 1, 0; (432687), 4, 1, 0; (432807), 4, 1, 0; (433259), 4, 1, 0; (433309), 4, 1, 0; (433323), 12, 3, 11; (433372), 12, 3, 16; (433376), 5, 1, 0; (433459), 13, 3, 40; (433468), 4, 1, 0; (433469), 4, 1, 0; (433535), 4, 1, 0; (433696), 4, 1, 0; (433973), 8, 2, 12; (434096), 4, 1, 0; (434822), 5, 1, 0; (434858), 4, 1, 0; (436495), 4, 1, 0; (436811), 4, 1, 0; (437399), 4, 1, 0; (437428), 8, 2, 12; (437586), 11, 2, 4; (438452), 14, 3, 28; (441825), 8, 2, 12; (446819), 23, 6, 37; (452544), 4, 1, 0; (453154), 4, 1, 0; (453938), 12, 3, 26; (455220), 8, 2, 28; (455278), 4, 1, 0; (455428), 14, 2, 4; (455446), 4, 1, 0; (455710), 5, 1, 0; (455740), 6, 1, 0; (456244), 4, 1, 0; (456341), 4, 1, 0; (456611), 14, 3, 33; (456651), 11, 2, 33; (457003), 4, 1, 0; (457016), 4, 1, 0; (457053), 4, 1, 0; (457175), 19, 5, 45; (457624), 4, 1, 0; (457768), 4, 1, 0; (457797), 4, 1, 0; (458531), 12, 3, 28; (458543), 5, 1, 0; (458590), 4, 1, 0; (459323), 4, 1, 0; (459452), 4, 1, 0; (459496), 4, 1, 0; (459785), 4, 1, 0; (460525), 4, 1, 0; (460641), 8, 2, 8; (460687), 4, 1, 0; (460721), 6, 1, 0; (461455), 8, 2, 20; (461473), 4, 1, 0; (461518), 4, 1, 0; (461575), 4, 1, 0; (461581), 4, 1, 0; (461674), 20, 5, 53; (461678), 9, 2, 36; (461901), 4, 1, 0; (461909), 24, 6, 33; (461946), 4, 1, 0; (462143), 5, 1, 0; (462594), 4, 1, 0; (462719), 4, 1, 0; (462796), 13, 3, 31; (462821), 16, 4, 27; (463266), 15, 3, 28; (463309), 4, 1, 0; (463524), 9, 2, 12; (463585), 4, 1, 0; (463596), 24, 6, 29; (463638), 8, 2, 8; (464631), 4, 1, 0; (464635), 4, 1, 0; (464640), 12, 2, 12; (464641), 9, 2, 8; (464643), 21, 4, 57; (464645), 4, 1, 0; (464651), 8, 2, 15; (464656), 8, 2, 8; (464710), 9, 2, 4; (464721), 4, 1, 0; (464809), 17, 3, 34; (464828), 12, 3, 16; (465039), 4, 1, 0; (465066), 4, 1, 0; (465074), 4, 1, 0; (465077), 9, 2, 28; (465110), 4, 1, 0; (465214), 8, 2, 4; (465453), 9, 2, 57; (465766), 4, 1, 0; (465831), 24, 6, 44; (465850), 12, 3, 12; (465910), 12, 3, 20; (466164), 21, 5, 36; (466257), 4, 1, 0; (466285), 4, 1, 0; (466310), 4, 1, 0; (466324), 16, 3, 25; (466384), 16, 4, 29; (466426), 4, 1, 0; (466490), 4, 1, 0; (466653), 4, 1, 0; (466860), 4, 1, 0; (467170), 4, 1, 0; (467243), 4, 1, 0; (467265), 4, 1, 0; (467329), 4, 1, 0; (467355), 8, 2, 12; (467365), 21, 4, 16; (467371), 8, 2, 25; (467375), 8, 2, 12; (467376), 13, 3, 57; (467467), 4, 1, 0; (467825), 4, 1, 0; (467853), 4, 1, 0; (467992), 4, 1, 0; (468090), 4, 1, 0; (468474), 20, 4, 24; (468542), 4, 1, 0; (468548), 6, 1, 0; (468640), 8, 2, 8; (468643), 8, 2, 8; (468657), 4, 1, 0; (468876), 4, 1, 0; (468901), 4, 1, 0; (468968), 20, 5, 44; (469145), 4, 1, 0; (469205), 4, 1, 0; (469212), 12, 3, 7; (469220), 8, 2, 57; (469423), 5, 1, 0; (469668), 4, 1, 0; (470953), 4, 1, 0; (472667), 4, 1, 0; (474004), 4, 1, 0; (474031), 4, 1, 0; (474035), 4, 1, 0; (474102), 4, 1, 0; (480858), 30, 6, 21; (481394), 4, 1, 0; (483422), 8, 2, 8; (483747), 4, 1, 0; (484517), 22, 4, 28; (485652), 29, 5, 17; (488462), 4, 1, 0; (488476), 4, 1, 0; (488494), 35, 7, 40; (488586), 12, 3, 16; (488727), 4, 1, 0; (488734), 4, 1, 0; (488774), 3, 1, 0; (488788), 4, 1, 0; (489234), 9, 2, 8;

(490088), 4, 1, 0; (490559), 6, 1, 0; (491633), 4, 1, 0; (493236), 4, 1, 0; (494693), 4, 1, 0; (494695), 4, 1, 0; (494884), 13, 2, 28; (494975), 13, 3, 46; (495008), 4, 1, 0; (495159), 10, 2, 4; (495182), 38, 9, 73; (495331), 10, 1, 0; (495721), 10, 2, 4; (495753), 8, 2, 16; (495831), 5, 1, 0; (495844), 4, 1, 0; (495848), 12, 3, 43; (495851), 27, 6, 53; (495856), 15, 3, 35; (495858), 8, 2, 12; (495861), 16, 4, 33; (495867), 12, 2, 13; (495871), 12, 3, 28; (495881), 4, 1, 0; (495882), 8, 2, 12; (495886), 20, 5, 32; (495939), 8, 2, 12; (495951), 6, 1, 0; (495959), 27, 5, 37; (495960), 4, 1, 0; (495961), 9, 2, 11; (495980), 7, 2, 16; (496005), 15, 4, 71; (496018), 24, 6, 74; (496019), 19, 4, 33; (496029), 26, 6, 34; (496032), 12, 3, 12; (496040), 8, 2, 12; (496081), 18, 4, 36; (496101), 9, 2, 12; (496114), 4, 1, 0; (496127), 3, 1, 0; (496128), 11, 3, 12; (496141), 20, 5, 33; (496269), 8, 2, 8; (496378), 4, 1, 0; (496436), 10, 2, 30; (496457), 4, 1, 0; (496475), 5, 1, 0; (496581), 4, 1, 0; (496587), 12, 3, 28; (496644), 4, 1, 0; (496653), 5, 1, 0; *[752870, 39232, 32∗, 2017/06/19–2017/10/01]*

T09 Mauna Kea-UH/Tholen NEO Follow-Up (Subaru)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu]
Observers D. J. Tholen, S. S. Sheppard. C. A. Trujillo, F. Finet, M. Micheli, M. W. Buie, J. Miles
8.2-m reflector
Gaia-DR1

2003 RS_1, 10, 2, 1; 2006 VR_{103}, 3, 1, 0; 2007 DD, 6, 1, 0; 2012 TC_4, 11, 1, 0; 2014 MR_{37}, 2, 1, 0; 2014 NG_{65}, 5, 2, 1; 2017 NR_6, 6, 2, 1; (9486), 10, 1, 0; (38072), 3, 1, 0; (61039), 3, 1, 0; (108632), 6, 1, 0; (256509), 3, 1, 0; *[68, 12, 0∗, 2011/06/01–2017/08/27]*

T12 Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu]
Observers Y. Ramanjooloo, D. Hung, Z. Claytor, D. Fohring, D. J. Tholen, M. Micheli, G. T. Elliott
2.24-m University of Hawaii reflector
Gaia-DR1

2004 EX_{104}, 2, 1, 0; 2005 NW_{80}, 3, 1, 0; 2005 VL_1, 5, 2, 1; 2007 DD, 1, 1, 0; 2008 XQ_2, 1, 1, 0; 2010 JM_{41}, 3, 1, 0; 2010 PY_{75}, 4, 2, 41; 2010 TP_{55}, 1, 1, 0; 2011 BX_{59}, 1, 1, 0; 2011 FS_9, 3, 1, 0; 2011 GA_3, 4, 1, 0; 2011 HN_{24}, 2, 1, 0; 2011 JW_{10}, 3, 1, 0; 2011 KH_9, 3, 1, 0; 2011 PU_1, 2, 1, 0; 2012 BB_{77}, 7, 2, 1; 2012 QB_{17}, 2, 1, 0; 2014 HR_{184}, 3, 1, 0; 2015 AC_{44}, 3, 1, 0; 2015 BG_{311}, 2, 2, 1; 2015 DX_{198}, 4, 2, 22; 2015 RN_{35}, 12, 6, 70; 2016 CO_{246}, 7, 3, 29; 2016 EU_{85}, 5, 2, 1; 2016 KG_4, 2, 1, 0; 2016 TB_{18}, 2, 1, 0; 2016 VG_3, 2, 2, 1; 2016 VU_3, 4, 2, 2; 2016 VS_5, 6, 1, 0; 2016 YM_4, 6, 2, 7; 2017 AQ_{19}, 4, 1, 0; 2017 BZ_6, 3, 2, 26; 2017 BF_{30}, 5, 2, 2; 2017 BG_{85}, 2, 1, 0; 2017 CH_1, 3, 1, 0; 2017 DT_{35}, 1, 1, 0; 2017 EB_3, 2, 1, 0; 2017 FB_1, 2, 1, 0; 2017 FR_{63}, 3, 1, 0; 2017 FL_{127}, 1, 1, 0; 2017 FC_{157}, 3, 1, 0; 2017 GS_5, 4, 1, 0; 2017 GQ_6, 2, 1, 0; 2017 GM_7, 1, 1, 0; 2017 HJ, 3, 1, 0; 2017 HK_1, 2, 1, 0; 2017 HU_{49}, 1, 1, 0; 2017 HL_{61} ∗, 8, 2, 1; 2017 NB_2, 2, 1, 0; (35307), 15, 3, 2; (42731), 3, 1, 0; (68449), 2, 1, 0; (74540), 2, 1, 0; (122269), 16, 3, 2; (136874), 3, 1, 0; (162617), 1, 1, 0; (163257), 6, 1, 0; (164096), 2, 1, 0; (178281), 3, 1, 0; (215288), 6, 1, 0; (221077), 2, 1, 0; (232440), 1, 1, 0; (242470), 2, 1, 0; (248590), 3, 1, 0; (270421), 6, 3, 2; (280742), 3, 1, 0; (314994), 3, 1, 0; (315808), 1, 1, 0; (319553), 2, 1, 0; (327927), 3, 1, 0; (328233), 4, 2, 1; (350664), 11, 1, 0; (357129), 3, 1, 0; (401311), 3, 1, 0; (415677), 3, 1, 0; (447069), 4, 1, 0; (469219), 71, 3, 31; (493801), 3, 1, 0; (495878), 8, 4, 8; *[352, 79, 1∗, 2011/04/13–2017/05/30]*

T14 Mauna Kea-UH/Tholen NEO Follow-Up (CFHT)

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A. [tholen@ifa.hawaii.edu]
Observers D. Woodworth, C. Wipper, L. Wells, A. Draginda, C. Crowder
Measurers D. J. Tholen, R. J. Wainscoat
3.6-m Canada-France-Hawaii Telescope
Gaia-DR1

2004 TB_{10}, 5, 2, 1; 2004 UR_1, 6, 2, 2; 2010 TP_{55}, 2, 1, 0; 2011 BY_{18}, 7, 2, 1; 2011 GS_{60}, 3, 2, 1; 2011 PU_1, 3, 1, 0; 2013 AN_{20}, 9, 2, 2; 2013 FW_{13}, 2, 2, 2; 2013 LP_{30}, 3, 1, 0; 2013 TV_{135}, 9, 2, 1; 2013 YO_{40}, 3, 1, 0; 2014 GE_{35}, 4, 2, 1; 2014 HV_{177}, 6, 2, 52; 2015 BS_{425}, 3, 1, 0; 2016 ER_{77}, 5, 2, 1; 2016 FW_3, 4, 2, 2; 2016 FC_{15}, 5, 2, 1; 2016 JJ_{24}, 2, 2, 1; 2017 KN_{34}, 3, 1, 0; 2017 MF_7, 1, 1, 0; 2017 MD_9, 3, 1, 0; 2017 ME_9, 3, 1, 0; 2017 OA, 6, 1, 0; 2017 OO_{67}, 3, 1, 0; 2017 OV_{67}, 3, 1, 0; 2017 OW_{67}, 3, 1, 0; 2017 OX_{67}, 3, 1, 0; 2017 OZ_{67}, 3, 1, 0; 2017 OD_{68}, 3, 1, 0; 2017 OG_{68}, 3, 1, 0; 2017 OH_{68}, 3, 1, 0; 2017 OJ_{68}, 3, 1, 0; 2017 OQ_{68}, 3, 1, 0; 2017 OR_{68}, 3, 1, 0; 2017 OY_{68}, 2, 1, 0; 2017 OA_{69}, 3, 1, 0; 2017 QS_{16}, 3, 1, 0; 2017 QQ_{17}, 8, 3, 2; 2017 QW_{17}, 3, 1, 0; 2017 QG_{18}, 3, 1, 0; 2017 QL_{32}, 3, 1, 0; 2017 QH_{33}, 3, 1, 0; 2017 QJ_{33}, 3, 1, 0; 2017 QX_{34}, 3, 1, 0; 2017 RC, 9, 3, 2; 2017 RN_2 ∗, 12, 4, 9; 2017 RD_{14}, 6, 1, 0; (6762), 3, 1, 0; (15708), 6, 1, 0; (43491), 3, 1, 0; (54787), 3, 1, 0; (74036), 2, 1, 0; (83514), 3, 1, 0; (97805), 3, 1, 0; (131226), 3, 1, 0; (148891), 4, 1, 0; (166053), 6, 1, 0; (167126), 3, 1, 0; (201429), 3, 1, 0; (221105), 6, 1, 0; (243614), 3, 1, 0; (268863), 3, 1, 0; (276979), 4, 1, 0; (298856), 4, 1, 0; (320283), 3, 1, 0; (332347), 3, 1, 0; (332376), 2, 1, 0; (334628), 3, 1, 0; (352007), 3, 1, 0; (356634), 3, 1, 0; (366846), 6, 1, 0; (371530), 6, 1, 0; (379426), 3, 1, 0; (388776), 3, 1, 0; (425622), 3, 1, 0; (479539), 6, 1, 0; (489200), 4, 1, 0; *[301, 77, 1∗, 2014/04/04–2017/09/24]*

U63 Burnt Tree Hill Observatory, Cle Elum

B. Van Deventer, 3929 205th PL SW, Lynnwood WA 98036, U.S.A. [bruce.vandeventer@gmail.com]
0.25-m Schmidt-Cassegrain + CCD
UCAC-4

(496018), 2, 1, 0; *[2, 1, 0∗, 2017/07/23]*

U69 iTelescope SRO Observatory, Auberry

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (5)
S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A. [steveareno225@gmail.com] (9)
M. Urbanik, no details supplied (13)
R. Horn, no details supplied [ralf@cornos.de] (24)
Observers S. M. Tilley, M. Urbanik, R. Horn, D. Brandt, H. Sato, M. Mattiazzo, E. Arsekin, P. Jochum, K. Huang, S. Zhang, E. Chien, G. Michelman, Y. Tamama, T. Weaver
0.61-m $f/6.5$ reflector + CCD
UCAC-4, PPMXL, NOMAD, Gaia-DR1, 2MASS

{13} 2017 NM_6, 3, 1, 0; *[3, 1, 0∗, 2017/07/15]*

{24} 2017 CS, 3, 1, 0; *[3, 1, 0∗, 2017/07/17]*

{5} (9667), 2, 1, 0; (12115), 2, 1, 0; (18152), 6, 2, 1; (18184), 2, 1, 0; (45142), 2, 1, 0; (62643), 2, 1, 0; (197072), 6, 2, 1; (201899), 2, 1, 0; (457175), 2, 1, 0; (468861), 2, 1, 0; *[28, 10, 0∗, 2017/05/19–2017/10/01]*

{9} 2017 NM_6, 6, 2, 2; 2017 OM_1, 3, 1, 0; 2017 RL, 3, 1, 0; (1628), 3, 1, 0; (231915), 3, 1, 0; (377427), 3, 1, 0; *[21, 6, 0∗, 2017/07/15–2017/10/01]*

U78 Cedar Glen Observatory

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

(3122), 10, 1, 0; (87071), 6, 2, 26; *[16, 2, 0∗, 2017/08/25–2017/09/20]*

U82 CS3-Palmer Divide Station, Landers

B. D. Warner, 446 Sycamore Ave., Eaton, CO, U.S.A. [brian@minorplanetobserver.com]
0.35-m $f/9.1$ Schmidt-Cassegrain + CCD
UCAC-4

(3122), 5, 1, 0; *[5, 1, 0∗, 2017/09/01]*

V03 Big Water

D. Rankin, P. O. Box 410313, Big Water, Utah, U.S.A. [david@rankinstudio.com]
0.30-m reflector + CCD
PPMXL, Gaia-DR1

2007 GH_{31}, 6, 2, 1; 2009 VC_{107}, 2, 1, 0; 2009 WG_{209}, 4, 1, 0; 2012 SS_{49}, 3, 1, 0; 2012 TH_{288}, 4, 1, 0; 2013 PW_1, 3, 1, 0; 2013 SV_{34}, 2, 1, 0; 2015 BH_{65}, 2, 1, 0; 2015 EF_{59}, 2, 1, 0; 2015 HT_{20}, 2, 1, 0; 2016 EM_7, 3, 1, 0; 2016 FT_{57}, 4, 1, 0; 2017 NM_6, 2, 1, 0; 2017 OM_1, 3, 1, 0; 2017 OR_8 ∗, 15, 5, 34; 2017 QK_{32} ∗, 26, 7, 23; 2017 RV_3 ∗, 5, 2, 3; 2017 RW_3 ∗, 5, 2, 3; 2017 SS_8 ∗, 14, 3, 2;

2017 SL_9 *, 15, 4, 5; (1787), 4, 1, 0; (3006), 3, 1, 0; (10797), 4, 1, 0; (14382), 3, 1, 0; (15631), 3, 1, 0; (17937), 3, 1, 0; (26505), 3, 1, 0; (29794), 4, 1, 0; (30156), 3, 1, 0; (31299), 3, 1, 0; (32309), 4, 1, 0; (33179), 4, 1, 0; (33997), 4, 1, 0; (34820), 3, 1, 0; (34982), 3, 1, 0; (35661), 4, 1, 0; (36387), 3, 1, 0; (36522), 3, 1, 0; (37425), 3, 1, 0; (37683), 3, 1, 0; (38739), 2, 1, 0; (41625), 3, 1, 0; (44580), 3, 1, 0; (46940), 3, 1, 0; (48313), 3, 1, 0; (48781), 3, 1, 0; (50489), 3, 1, 0; (50587), 2, 1, 0; (52006), 4, 1, 0; (52735), 3, 1, 0; (52737), 3, 1, 0; (52947), 4, 1, 0; (59550), 3, 1, 0; (61645), 3, 1, 0; (69618), 3, 1, 0; (73910), 3, 1, 0; (74698), 3, 1, 0; (75611), 3, 1, 0; (75817), 2, 1, 0; (83769), 4, 1, 0; (83952), 3, 1, 0; (84129), 4, 1, 0; (84152), 4, 1, 0; (84869), 4, 1, 0; (87300), 3, 1, 0; (87443), 4, 1, 0; (87950), 4, 1, 0; (93420), 3, 1, 0; (102301), 2, 1, 0; (106726), 2, 1, 0; (110372), 3, 1, 0; (111467), 4, 1, 0; (114405), 4, 1, 0; (121727), 3, 1, 0; (125691), 4, 1, 0; (136220), 4, 1, 0; (138309), 4, 1, 0; (139932), 4, 1, 0; (140832), 2, 1, 0; (142131), 3, 1, 0; (142396), 3, 1, 0; (143624), 4, 1, 0; (144232), 4, 1, 0; (148760), 3, 1, 0; (149873), 4, 1, 0; (153825), 4, 1, 0; (156467), 3, 1, 0; (165168), 4, 1, 0; (168325), 3, 1, 0; (169503), 4, 1, 0; (171667), 3, 1, 0; (177405), 3, 1, 0; (181996), 3, 1, 0; (192050), 3, 1, 0; (200324), 4, 1, 0; (201429), 3, 1, 0; (204180), 4, 1, 0; (204226), 3, 1, 0; (208500), 3, 1, 0; (210290), 4, 1, 0; (211192), 3, 1, 0; (213617), 4, 1, 0; (216716), 3, 1, 0; (219803), 3, 1, 0; (221281), 2, 1, 0; (221815), 4, 1, 0; (225534), 4, 1, 0; (227887), 3, 1, 0; (229223), 4, 1, 0; (230974), 4, 1, 0; (231296), 2, 1, 0; (232603), 4, 1, 0; (236088), 4, 1, 0; (239538), 2, 1, 0; (240506), 2, 1, 0; (242981), 3, 1, 0; (244196), 4, 1, 0; (245385), 4, 1, 0; (254939), 3, 1, 0; (257228), 3, 1, 0; (268991), 3, 1, 0; (271674), 3, 1, 0; (275510), 3, 1, 0; (275938), 3, 1, 0; (276030), 4, 1, 0; (288758), 3, 1, 0; (289712), 3, 1, 0; (290292), 4, 1, 0; (294051), 3, 1, 0; (296545), 3, 1, 0; (299927), 4, 1, 0; (317925), 2, 1, 0; (318616), 4, 1, 0; (319538), 2, 1, 0; (325209), 3, 1, 0; (325425), 2, 1, 0; (332389), 3, 1, 0; (338278), 3, 1, 0; (338401), 3, 1, 0; (342863), 3, 1, 0; (345032), 4, 1, 0; (345673), 4, 1, 0; (348981), 3, 1, 0; (358469), 3, 1, 0; (368174), 3, 1, 0; (370335), 3, 1, 0; (371702), 3, 1, 0; (377138), 4, 1, 0; (377360), 2, 1, 0; (379750), 2, 1, 0; (382312), 4, 1, 0; (387254), 2, 1, 0; (387422), 3, 1, 0; (394676), 2, 1, 0; (414784), 3, 1, 0; (427612), 2, 1, 0; (429419), 5, 2, 3; (433215), 3, 1, 0; *[567, 158, 6*, 2017/07/15–2017/09/23]*

V06 Catalina Sky Survey-Kuiper

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

2011 XO_3, 3, 1, 0; 2017 QL_{35}, 4, 1, 0; 2017 QY_{35}, 5, 2, 2; (12019), 3, 1, 0; (12327), 3, 1, 0; *[18, 5, 0*, 2017/09/02–2017/09/05]*

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

2000 SH_{233}, 8, 2, 1; 2002 RG_{295}, 3, 1, 0; 2003 BZ_{94}, 3, 1, 0; 2007 SF_{13}, 4, 1, 0; 2009 WE_{178}, 4, 1, 0; 2010 JN_{179}, 3, 1, 0; 2012 QL_1, 4, 1, 0; 2012 TN_{219}, 4, 1, 0; 2012 TE_{312}, 3, 1, 0; 2014 YA_{35}, 6, 2, 4; 2015 AW_{171}, 4, 1, 0; 2015 BN_{493}, 4, 1, 0; 2015 UN_{84}, 2, 1, 0; 2016 AR_{194}, 4, 1, 0; 2016 BU_{17}, 4, 1, 0; 2017 QB_{31}, 3, 1, 0; 2017 QG_{36} *, 2, 1, 0; (4825), 3, 1, 0; (13175), 4, 1, 0; (19579), 3, 1, 0; (27231), 4, 1, 0; (33184), 4, 1, 0; (33509), 3, 1, 0; (36486), 8, 2, 1; (38870), 8, 2, 1; (52732), 4, 1, 0; (54576), 3, 1, 0; (56466), 3, 1, 0; (56865), 8, 2, 5; (59547), 4, 1, 0; (60984), 4, 1, 0; (63455), 2, 1, 0; (65718), 4, 1, 0; (74217), 5, 2, 1; (74904), 3, 1, 0; (85037), 4, 1, 0; (85413), 3, 1, 0; (89491), 3, 1, 0; (90292), 8, 2, 1; (90414), 4, 1, 0; (99150), 8, 2, 1; (104072), 7, 2, 1; (112400), 3, 1, 0; (113141), 8, 2, 1; (113170), 3, 1, 0; (113452), 3, 1, 0; (115948), 3, 1, 0; (121227), 4, 1, 0; (123825), 4, 1, 0; (134952), 4, 1, 0; (135162), 4, 1, 0; (142130), 4, 1, 0; (144296), 6, 2, 1; (146078), 3, 1, 0; (149664), 3, 1, 0; (151042), 4, 1, 0; (153059), 7, 2, 1; (155438), 3, 1, 0; (163890), 7, 2, 1; (169308), 3, 1, 0; (178611), 3, 1, 0; (183868), 4, 1, 0; (188896), 2, 1, 0; (190058), 3, 1, 0; (190390), 3, 1, 0; (196868), 3, 1, 0; (199468), 3, 1, 0; (204014), 4, 1, 0; (206160), 2, 1, 0; (207599), 3, 1, 0; (208451), 4, 1, 0; (208525), 3, 1, 0; (211398), 7, 2, 1; (213080), 3, 1, 0; (220128), 2, 1, 0; (225103), 4, 1, 0; (228339), 4, 1, 0; (236049), 3, 1, 0; (247266), 3, 1, 0; (248032), 3, 1, 0; (267362), 8, 2, 1; (275790), 4, 1, 0; (294511), 3, 1, 0; (322329), 3, 1, 0; (337858), 3, 1, 0; (341520), 4, 2, 1; (341630), 4, 1, 0; (371197), 4, 1, 0; (380564), 4, 1, 0; (387128), 3, 1, 0; (416341), 4, 1, 0; (419632), 3, 1, 0; (465850), 8, 2, 1; (467315), 4, 1, 0; (469423), 4, 1, 0; *[384, 95, 1*, 2015/01/20–2017/09/22]*

V37 McDonald Observatory-LCO ELP

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane
1.0-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR1, Gaia-DR1

2001 HB, 3, 1, 0; 2004 RN_{10}, 5, 1, 0; 2005 UW_{291}, 3, 1, 0; 2011 CC_{22}, 4, 1, 0; 2014 YY_7, 3, 1, 0; 2015 DU_{179}, 3, 1, 0; 2017 PA_{27}, 12, 1, 0; 2017 PB_{27}, 6, 1, 0; 2017 RR, 3, 1, 0; 2017 RD_2, 5, 1, 0; 2017 RE_2, 6, 1, 0; 2017 RF_2, 5, 1, 0; 2017 RU_{16}, 4, 1, 0; 2017 SD_{11}, 3, 1, 0; 2017 SG_{11}, 3, 1, 0; (46501), 3, 1, 0; (50353), 3, 1, 0; (140319), 3, 1, 0; (280567), 3, 1, 0; (303816), 2, 1, 0; (384080), 3, 1, 0; (384175), 3, 1, 0; *[88, 22, 0*, 2017/07/12–2017/09/23]*

V78 Spirit Marsh Observatory. Sauk Centre

J. Briol, 37187 County Road 29, Sauk Centre, MN, U.S.A. [jfb@cloudnet.com]
0.20-m Newtonian reflector + CCD, 0.13-m Newtonian reflector + CCD
MPOSC3

(2329), 26, 8, 16; (3122), 99, 23, 33; (138925), 42, 13, 18; *[167, 3, 0*, 2017/07/17–2017/09/30]*

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

2017 OP_{68}, 8, 1, 0; (111), 6, 1, 0; (994), 12, 1, 0; (2412), 6, 1, 0; (3122), 10, 1, 0; (3351), 5, 1, 0; (8890), 6, 1, 0; (11145), 6, 1, 0; (13454), 9, 1, 0; (16191), 12, 1, 0; (44766), 2, 1, 0; (56562), 7, 1, 0; (56885), 12, 1, 0; (58369), 10, 1, 0; (67375), 5, 1, 0; (75397), 9, 1, 0; (77752), 2, 1, 0; (93415), 3, 1, 0; (121257), 4, 1, 0; (138539), 3, 1, 0; (237608), 2, 1, 0; *[139, 21, 0*, 2017/09/01–2017/09/29]*

W14 Harvest

J. G. Loum, 101 Silver Poplar Place, Harvest, AL 35749, U.S.A.
[astro_josh@mgrazr.net]
0.25-m $f/5.7$ reflector + CCD
UCAC-4

(1640), 3, 1, 0; (116122), 3, 1, 0; (163009), 3, 1, 0; (259065), 3, 1, 0; (337408), 3, 1, 0; (375858), 2, 1, 0; *[17, 6, 0*, 2017/09/10–2017/09/18]*

W19 Kalamazoo

F. E. Dutton, 918 Nichols Road, Kalamazoo, MI 49006, U.S.A.
[fedutton@chartermi.net]
0.51-m $f/6.8$ Corrected Dall-Kirkham + CCD + $f/4.5$ focal reducer
UCAC-4

2014 YC_{15}, 15, 3, 14; (1019), 3, 1, 0; (1025), 4, 1, 0; (1980), 16, 3, 15; (2329), 5, 1, 0; (3122), 16, 3, 14; (5001), 4, 1, 0; (5040), 13, 2, 29; (5095), 8, 2, 23; (6053), 27, 5, 31; (10026), 12, 2, 3; (10069), 5, 1, 0; (11398), 19, 4, 14; (20460), 3, 1, 0; (45287), 5, 1, 0; (45291), 5, 1, 0; (45368), 6, 1, 0; (90075), 37, 6, 41; (138925), 25, 4, 14; (142561), 3, 1, 0; (190166), 20, 3, 11; (422699), 11, 2, 12; *[262, 22, 0*, 2017/07/08–2017/09/30]*

W25 RMS Observatory, Cincinnati

B. Rowe, 5320 Miami Rd, Cincinnati, Ohio 45243, U.S.A. [basilrowe@gmail.com]
0.35-m Schmidt-Cassegrain + CCD
UCAC-4

2001 UQ_{163}, 2, 1, 0; 2015 VY_{152}, 2, 1, 0; 2017 HW_{48}, 2, 1, 0; 2017 KR_{34}, 19, 8, 23; 2017 LY, 2, 1, 0; 2017 MB_1, 10, 3, 7; 2017 MY_2, 5, 2, 4; 2017 MD_3, 3, 1, 0; 2017 MY_3, 2, 1, 0; 2017 MW_4, 4, 2, 1; 2017 MR_8, 2, 1, 0; 2017 MT_8, 6, 3, 5; 2017 NL_2, 9, 3, 7; 2017 NN_2, 13, 4, 11; 2017 NS_5, 3, 1, 0; 2017 NV_5, 7, 3, 10; 2017 NX_5, 2, 1, 0; 2017 NL_6, 8, 4, 56; 2017 NM_6, 4, 2, 1; 2017 NV_6, 2, 1, 0; 2017 OB, 2, 1, 0; 2017 OC, 2, 1, 0; 2017 OD, 2, 1, 0; 2017 OG_1, 6, 3, 7; 2017 OJ_1, 2, 1, 0; 2017 OL_1, 4, 2, 2; 2017 OM_1, 2, 1, 0; 2017 ON_1, 2, 1, 0; 2017 OO_1, 2, 1, 0; 2017 OE_7, 2, 1, 0; 2017 OF_7, 10, 4, 7; 2017 OK_{18}, 4, 2, 4; 2017 OL_{18}, 4, 2, 3; 2017 OS_{18}, 2, 1, 0; 2017 OT_{18}, 6, 3, 7; 2017 OX_{18}, 4, 2, 1; 2017 OC_{19}, 2, 1, 0; 2017 OR_{19}, 2, 1, 0; 2017 PP_{24}, 2, 1, 0; 2017 PR_{24}, 2, 1, 0; 2017 PU_{24}, 2, 1, 0; 2017 PA_{25}, 2, 1, 0; 2017 PD_{25}, 2, 1, 0; 2017 PE_{25}, 2, 1, 0; 2017 PQ_{25}, 2,

1, 0; 2017 PS_{25}, 2, 1, 0; 2017 QR_{17}, 2, 1, 0; 2017 QS_{17}, 2, 1, 0; 2017 QG_{18}, 2, 1, 0; 2017 QL_{18}, 2, 1, 0; 2017 QN_{33}, 2, 1, 0; 2017 RC_1, 2, 1, 0; 2017 RK_2, 2, 1, 0; 2017 RU_2, 2, 1, 0; 2017 RV_2, 2, 1, 0; 2017 RX_2, 2, 1, 0; 2017 RY_{15}, 2, 1, 0; 2017 SV_2, 2, 1, 0; 2017 SY_2, 4, 2, 1; 2017 SD_{12}, 4, 2, 1; 2017 SM_{12}, 2, 1, 0; 2017 SS_{12}, 2, 1, 0; 2017 SG_{13}, 2, 1, 0; 2017 SU_{14}, 4, 2, 2; 2017 SJ_{16}, 2, 1, 0; 2017 SK_{16}, 4, 2, 1; 2017 SR_{16}, 2, 1, 0; 2017 SB_{17}, 2, 1, 0; 2017 SN_{17}, 2, 1, 0; 2017 SO_{17}, 2, 1, 0; 2017 SU_{17}, 2, 1, 0; 2017 SZ_{18}, 2, 1, 0; 2017 SS_{19}, 2, 1, 0; (3122), 2, 1, 0; (12538), 7, 3, 11; (106589), 7, 3, 18; (142561), 19, 8, 27; (190208), 2, 1, 0; (223456), 2, 1, 0; (294739), 23, 10, 27; (304640), 12, 6, 16; (366733), 12, 4, 15; (480858), 4, 2, 25; (481394), 11, 5, 16; *[346, 84, 0∗, 2017/07/09–2017/09/29]*

W33 Transit Dreams Observatory, Campobello
D. Wilde, 1570 Roddy Rd, Campobello, SC 298322, U.S.A.
[dwilde.tdo@gmail.com]
0.13-m refractor + CCD
UCAC-4
2017 PR_{25}, 5, 1, 0; (6), 2, 1, 0; (24), 8, 3, 51; (30), 3, 1, 0; (81), 2, 1, 0; (94), 2, 1, 0; (169), 3, 1, 0; (387), 3, 1, 0; (447), 3, 1, 0; (558), 3, 1, 0; (599), 2, 1, 0; (972), 8, 3, 51; (1439), 2, 1, 0; (1980), 3, 1, 0; (2329), 5, 2, 22; (3122), 6, 2, 10; (4163), 3, 1, 0; (6053), 9, 3, 62; (11398), 2, 1, 0; (26852), 2, 1, 0; (81061), 2, 1, 0; (90075), 6, 2, 52; (134702), 3, 1, 0; (138846), 2, 1, 0; (138925), 3, 1, 0; (190166), 5, 2, 56; *[97, 26, 0∗, 2017/07/08–2017/10/01]*

W34 Squirrel Valley Observatory, Columbus
R. L. Flynn, 3870 River Road, Columbus, North Carolina 28722, U.S.A.
[squirrelvalleyobservatory@gmail.com]
0.20-m $f/10$ Schmidt-Cassegrain + CCD + $f/7.0$ focal reducer
UCAC-4, Gaia-DR1
2004 TQ_{13}, 4, 1, 0; 2006 RK_{11}, 3, 1, 0; 2012 XB_{134}, 4, 1, 0; 2013 UA_1, 3, 1, 0; 2014 CD_{13}, 4, 1, 0; 2017 NH, 4, 1, 0; 2017 OL_1, 4, 1, 0; 2017 OM_1, 4, 1, 0; 2017 ON_1, 2, 1, 0; 2017 OR_8, 7, 2, 20; 2017 OR_{19}, 3, 1, 0; 2017 PS_{25}, 4, 1, 0; 2017 PT_{25}, 4, 1, 0; 2017 PL_{26}, 4, 1, 0; 2017 QK_{32}, 4, 1, 0; 2017 RL, 4, 1, 0; 2017 RK_1, 3, 1, 0; 2017 RV_1, 4, 1, 0; 2017 RQ_2, 3, 1, 0; 2017 RS_2, 3, 1, 0; 2017 RV_2, 4, 1, 0; 2017 RY_{15}, 4, 1, 0; 2017 SB_2, 4, 1, 0; 2017 SM_2, 3, 1, 0; 2017 SS_8, 3, 1, 0; 2017 SL_9, 2, 1, 0; 2017 SR_9 ∗, 8, 3, 7; 2017 SS_{12}, 4, 1, 0; 2017 SN_{14}, 3, 1, 0; 2017 SD_{17}, 2, 1, 0; 2017 SP_{17}, 3, 1, 0; 2017 SS_{19}, 3, 1, 0; (485), 4, 1, 0; (1051), 4, 1, 0; (1179), 4, 1, 0; (1917), 4, 1, 0; (1980), 4, 1, 0; (2202), 3, 1, 0; (3122), 7, 1, 0; (3917), 4, 1, 0; (5786), 4, 1, 0; (6053), 4, 1, 0; (6974), 4, 1, 0; (7258), 4, 1, 0; (7336), 4, 1, 0; (8745), 4, 1, 0; (9202), 4, 1, 0; (9325), 4, 1, 0; (12899), 3, 1, 0; (16486), 4, 1, 0; (16942), 4, 1, 0; (17008), 4, 1, 0; (17807), 4, 1, 0; (20460), 4, 1, 0; (20826), 2, 1, 0; (21550), 4, 1, 0; (21605), 4, 1, 0; (25310), 4, 1, 0; (26754), 4, 1, 0; (27226), 4, 1, 0; (29133), 4, 1, 0; (32230), 4, 1, 0; (32328), 5, 1, 0; (33142), 3, 1, 0; (34174), 4, 1, 0; (34197), 4, 1, 0; (36787), 4, 1, 0; (37199), 4, 1, 0; (39322), 3, 1, 0; (40914), 4, 1, 0; (42688), 4, 1, 0; (44772), 3, 1, 0; (48257), 4, 1, 0; (48506), 3, 1, 0; (52005), 4, 1, 0; (52146), 4, 1, 0; (52762), 4, 1, 0; (57655), 4, 1, 0; (58625), 4, 1, 0; (62053), 3, 1, 0; (62122), 3, 1, 0; (63456), 3, 1, 0; (64820), 3, 1, 0; (65218), 4, 1, 0; (67895), 4, 1, 0; (68348), 4, 1, 0; (68950), 3, 1, 0; (70107), 4, 1, 0; (70208), 4, 1, 0; (72268), 4, 1, 0; (73545), 4, 1, 0; (74081), 4, 1, 0; (76004), 4, 1, 0; (76748), 4, 1, 0; (78458), 3, 1, 0; (78634), 3, 1, 0; (81518), 3, 1, 0; (82150), 3, 1, 0; (83573), 4, 1, 0; (87368), 4, 1, 0; (87664), 4, 1, 0; (89991), 4, 1, 0; (90075), 4, 1, 0; (93220), 3, 1, 0; (95782), 3, 1, 0; (96631), 4, 1, 0; (99389), 4, 1, 0; (100287), 3, 1, 0; (100926), 4, 1, 0; (104151), 4, 1, 0; (105102), 4, 1, 0; (105678), 3, 1, 0; (106589), 4, 1, 0; (108684), 4, 1, 0; (109619), 4, 1, 0; (109892), 3, 1, 0; (110844), 3, 1, 0; (111097), 3, 1, 0; (111466), 3, 1, 0; (112845), 3, 1, 0; (116704), 2, 1, 0; (136118), 3, 1, 0; (136818), 3, 1, 0; (137555), 4, 1, 0; (141983), 4, 1, 0; (142464), 4, 1, 0; (147902), 4, 1, 0; (148310), 4, 1, 0; (150920), 3, 1, 0; (152144), 4, 1, 0; (153415), 4, 1, 0; (159997), 4, 1, 0; (163517), 3, 1, 0; (166029), 3, 1, 0; (168061), 3, 1, 0; (169000), 3, 1, 0; (172274), 3, 1, 0; (174724), 3, 1, 0; (176160), 3, 1, 0; (179754), 3, 1, 0; (181634), 4, 1, 0; (199507), 3, 1, 0; (201429), 3, 1, 0; (209021), 3, 1, 0; (210544), 3, 1, 0; (211071), 3, 1, 0; (220332), 3, 1, 0; (225512), 4, 1, 0; (228887), 3, 1, 0; (230351), 3, 1, 0; (236436), 3, 1, 0; (243181), 4, 1, 0; (250971), 4, 1, 0; (261967), 3, 1, 0; (265962), 4, 1, 0; (275599), 3, 1, 0; (281354), 3, 1, 0; (283425), 4, 1, 0; (284639), 4, 1, 0; (288067), 3, 1, 0; (311205), 4, 1, 0; (317939), 4, 1, 0; (334375), 4, 1, 0; (340607), 4, 1, 0; (340708), 4, 1, 0; (347834), 4, 1, 0; (368224), 3, 1, 0; (369492), 3, 1, 0; (375760), 1, 1, 0; (376574), 4, 1, 0; (385899), 3, 1, 0; (393464), 3, 1, 0; (419399), 3, 1, 0; (422699), 4, 1, 0; (425249), 4, 1, 0; (454742), 3, 1, 0; (483422), 3, 1, 0; (495848), 4, 1, 0; (496005), 10, 2, 4; *[654, 179, 1∗, 2017/07/10–2017/09/29]*

W46 Foxfire Village
J. Haidet, 498 Grande Pines Vista, Jackson Springs, NC 27281, U.S.A.
[jjhaidet@gmail.com]
0.36-m $f/8$ Ritchey-Chrétien + CCD
UCAC-4
(447), 3, 1, 0; (612), 2, 1, 0; (647), 2, 1, 0; (669), 3, 1, 0; (903), 3, 1, 0; (1079), 2, 1, 0; (1256), 3, 1, 0; (1330), 2, 1, 0; (1535), 3, 1, 0; (1596), 3, 1, 0; (1758), 3, 1, 0; (1824), 2, 1, 0; (1826), 3, 1, 0; (1830), 2, 1, 0; (2320), 2, 1, 0; (2443), 3, 1, 0; (2575), 3, 1, 0; (2713), 3, 1, 0; (2718), 1, 1, 0; (2860), 3, 1, 0; (3088), 3, 1, 0; (3122), 6, 2, 12; (3364), 3, 1, 0; (3459), 3, 1, 0; (3469), 2, 1, 0; (3699), 2, 1, 0; (3716), 3, 1, 0; (3722), 3, 1, 0; (3728), 3, 1, 0; (3772), 2, 1, 0; (3830), 3, 1, 0; (3839), 2, 1, 0; (3895), 4, 2, 2; (3934), 2, 1, 0; (4170), 3, 1, 0; (4225), 3, 1, 0; (4411), 2, 1, 0; (4537), 2, 1, 0; (4712), 3, 1, 0; (5040), 3, 1, 0; (5118), 2, 1, 0; (5599), 3, 1, 0; (5676), 2, 1, 0; (5813), 3, 1, 0; (5851), 2, 1, 0; (6045), 5, 2, 9; (6963), 2, 1, 0; (7996), 2, 1, 0; (8577), 3, 1, 0; (8994), 3, 1, 0; (9200), 3, 1, 0; (10132), 3, 1, 0; (10292), 2, 1, 0; (10323), 2, 1, 0; (10337), 3, 1, 0; (10496), 3, 1, 0; (10599), 3, 1, 0; (11004), 3, 1, 0; (11211), 3, 1, 0; (11434), 2, 1, 0; (11756), 2, 1, 0; (12436), 3, 1, 0; (13161), 2, 1, 0; (14309), 2, 1, 0; (14328), 3, 1, 0; (14339), 2, 1, 0; (14892), 3, 1, 0; (15473), 3, 1, 0; (15590), 2, 1, 0; (16423), 3, 1, 0; (16785), 2, 1, 0; (17410), 3, 1, 0; (20187), 3, 1, 0; (20885), 2, 1, 0; (28991), 3, 1, 0; (29564), 3, 1, 0; (30346), 2, 1, 0; (30769), 3, 1, 0; (30805), 2, 1, 0; (31007), 2, 1, 0; (34946), 3, 1, 0; (39027), 2, 1, 0; (45287), 3, 1, 0; (45836), 2, 1, 0; (68071), 3, 1, 0; (73714), 3, 1, 0; (87170), 3, 1, 0; (87888), 2, 1, 0; (109197), 2, 1, 0; (133819), 3, 1, 0; (138925), 3, 1, 0; (155287), 1, 1, 0; *[242, 92, 0∗, 2017/07/12–2017/09/29]*

W49 CBA-MM Observatory, Mountain Meadows
D. Skillman, 6-G Ridge Road, Greenbelt, MD 20770, U.S.A.
[dskillman@comcast.net]
0.66-m $f/2.7$ reflector + CCD
UCAC-3
2005 GH_{18}, 3, 1, 0; 2016 SW_{23}, 3, 1, 0; *[6, 2, 0∗, 2016/09/24–2016/10/04]*

W55 Natelli Observatory, Frederick
J. B. Gunn, Earth & Space Science Lab, 210 Madison Street, Frederick, MD 21701, U.S.A. [gunner4565@gmail.com]
0.36-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4
(50000), 3, 2, 1; (174567), 4, 2, 4; *[7, 2, 0∗, 2017/07/16–2017/07/31]*

W71 Rand II Observatory, Lake Placid
G. Viscome, 58 Jersey Drive, Lake Placid, NY 12946, U.S.A.
[gviscome@roadrunner.com]
0.37-m $f/6$ reflector + CCD
CMC-15, Gaia-DR1
2016 TJ_{17}, 5, 1, 0; 2017 PR_{25}, 15, 3, 3; 2017 RV_1, 16, 3, 4; 2017 SN_2, 4, 1, 0; 2017 SS_{12}, 4, 1, 0; (7341), 4, 1, 0; (29454), 12, 2, 1; (33776), 7, 1, 0; (62350), 4, 1, 0; (162269), 6, 1, 0; (469796), 5, 1, 0; (470510), 5, 1, 0; *[87, 12, 0∗, 2016/10/06–2017/09/27]*

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
2016 TU_{25}, 3, 1, 0; 2016 TK_{42}, 3, 1, 0; 2017 MH_3, 9, 3, 22; (54854), 6, 2, 3; (316689), 3, 1, 0; *[24, 5, 0∗, 2016/10/08–2017/07/20]*

W84 Cerro Tololo-DECam
M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy [marco.bs.it@gmail.com] (3)
D. Gerdes, Dept. of Physics, University of Michigan, Ann Arbor, MI 48109, U.S.A. [gerdes@umich.edu] (7)
J. Bauer, no details supplied [James.Bauer@jpl.nasa.gov] (9)
Observers A. Stebbins, M. Soares-Santos, C. Chang, D. Hollowood, B. Nord, A. Zenteno, N. Sevilla Noarbe, M.-Y. Wang, E. Kovacs, K. Story, S. Sheppard, C. Trujillo, C. Fuentes, C. Smith, L. Galbany, T. de Jaeger,

K. Vivas, M. Manera, R. Kron, F. Tarsitano, N. Sevilla, C. Wethers,
C. Burgad, E. Cook, J. Marshall, H. Spinka, D. Tucker, J. Frieman,
E. Sheldon, F. Mananteau, C. Davis, D. Capozzi, A. Kim, N. Kuropatkin,
L. Clerkin, R. Cawthon, R. Das, R. Ogando, M. Schubnell, D. Gerdes,
J. A. Smith, E. Balbinot, A. Kremin, Y. Zhang, S. Hamilton, A. Ferte,
R. Bhatawdekar, J. Annis, B. Thomas, I. Mohammed
Measurers D. Gerdes, M. Sako, F. Valdes, K. Franson, L. Zullo
4.0-m CTIO reflector
2MASS

{10} 1999 CF_{119}, 3, 1, 0; 1999 CM_{158}, 3, 1, 0; 1999 HH_{12}, 3, 1, 0; 1999 US_{54}, 3, 1, 0; 2000 FR_{53}, 3, 1, 0; 2001 QA_{298}, 3, 1, 0; 2001 UL_{166}, 3, 1, 0; 2002 CE_{251}, 3, 1, 0; 2002 GS_{32}, 3, 1, 0; 2002 GH_{166}, 3, 1, 0; 2002 PQ_{88}, 3, 1, 0; 2002 QZ_{12}, 3, 1, 0; 2003 UB_{392}, 3, 1, 0; 2003 VP_{12}, 3, 1, 0; 2004 PY_{117}, 3, 1, 0; 2005 EF_{304}, 3, 1, 0; 2005 QJ_{122}, 7, 1, 0; 2005 XR_{12}, 3, 1, 0; 2006 QQ_{180}, 3, 1, 0; 2006 SR_{373}, 3, 1, 0; 2006 TS_{55}, 3, 1, 0; 2006 US_{5}, 3, 1, 0; 2006 UE_{38}, 3, 1, 0; 2006 VM_{18}, 3, 1, 0; 2006 VH_{173}, 3, 1, 0; 2006 WS_{95}, 3, 1, 0; 2007 TZ_{417}, 3, 1, 0; 2007 UO_{97}, 3, 1, 0; 2008 FT_{130}, 3, 1, 0; 2008 OW_{22}, 3, 1, 0; 2008 RJ_{103}, 3, 1, 0; 2008 SD_{86}, 3, 1, 0; 2008 ST_{275}, 3, 1, 0; 2009 CH_{25}, 3, 1, 0; 2009 CY_{48}, 4, 1, 0; 2009 HZ_{54}, 3, 1, 0; 2009 MO_{10}, 6, 2, 1; 2009 RK_{72}, 3, 1, 0; 2009 SE_{233}, 3, 1, 0; 2009 SL_{272}, 3, 1, 0; 2009 SJ_{342}, 3, 1, 0; 2009 UG_{57}, 3, 1, 0; 2009 UC_{98}, 4, 1, 0; 2009 UC_{112}, 3, 1, 0; 2009 VQ_{52}, 3, 1, 0; 2009 WR_{154}, 3, 1, 0; 2009 XY_{15}, 3, 1, 0; 2010 PL_{66}, 3, 1, 0; 2010 QE_{7}, 4, 1, 0; 2010 RO_{64}, 3, 1, 0; 2010 UO_{65}, 3, 1, 0; 2010 VX_{11}, 3, 1, 0; 2010 VE_{171}, 3, 1, 0; 2010 VR_{192}, 4, 1, 0; 2011 AF_{15}, 3, 1, 0; 2011 AH_{43}, 3, 1, 0; 2011 UK_{103}, 3, 1, 0; 2011 UE_{319}, 3, 1, 0; 2011 WR_{87}, 3, 1, 0; 2011 YT_{33}, 3, 1, 0; 2012 AT_{21}, 3, 1, 0; 2012 GX_{17}, 3, 1, 0; 2012 RC_{37}, 3, 1, 0; 2012 TE_{6}, 3, 1, 0; 2012 TP_{200}, 3, 1, 0; 2012 TS_{286}, 3, 1, 0; 2012 TC_{324}, 3, 1, 0; 2012 UW_{73}, 6, 2, 1; 2012 UT_{151}, 6, 2, 3; 2012 UW_{160}, 3, 1, 0; 2012 VH_{72}, 3, 1, 0; 2013 BO_{79}, 4, 1, 0; 2013 CY_{197}, 3, 1, 0; 2013 EZ_{27}, 3, 1, 0; 2013 EH_{154}, 3, 1, 0; 2013 FY_{27}, 6, 2, 52; 2013 FZ_{27}, 3, 1, 0; 2013 FA_{28}, 3, 1, 0; 2013 FB_{28}, 3, 1, 0; 2013 FD_{28}, 3, 1, 0; 2013 FG_{28}, 3, 1, 0; 2013 FH_{28}, 3, 1, 0; 2013 FJ_{28}, 3, 1, 0; 2013 FN_{28}, 6, 2, 377; 2013 HH_{29}, 3, 1, 0; 2013 HU_{32}, 3, 1, 0; 2013 HU_{123}, 3, 1, 0; 2013 SS_{23}, 3, 1, 0; 2013 TJ_{1}, 3, 1, 0; 2013 TO_{66}, 3, 1, 0; 2013 TU_{96}, 3, 1, 0; 2013 YO_{148}, 3, 1, 0; 2014 FV_{71}, 3, 1, 0; 2014 FX_{71}, 3, 1, 0; 2014 FY_{71}, 3, 1, 0; 2014 FE_{72}, 3, 1, 0; 2014 HE_{200}, 3, 1, 0; 2014 KT_{71}, 4, 1, 0; 2014 LS_{15}, 3, 1, 0; 2014 LH_{16}, 3, 1, 0; 2014 LR_{16}, 7, 1, 0; 2014 MC_{13}, 3, 1, 0; 2014 MH_{52}, 3, 1, 0; 2014 MY_{69}, 3, 1, 0; 2014 NT_{3}, 4, 1, 0; 2014 NS_{31}, 8, 1, 0; 2014 NV_{65}, 3, 1, 0; 2014 OR_{1}, 3, 1, 0; 2014 OO_{2}, 9, 2, 1; 2014 OC_{50}, 6, 1, 0; 2014 OE_{72}, 3, 1, 0; 2014 OS_{106}, 4, 1, 0; 2014 OU_{109}, 7, 1, 0; 2014 OY_{324}, 3, 1, 0; 2014 OT_{328}, 4, 1, 0; 2014 OX_{375}, 6, 1, 0; 2014 OD_{394}, 3, 1, 0; 2014 PO_{29}, 3, 1, 0; 2014 QQ_{91}, 3, 1, 0; 2014 SE_{142}, 3, 1, 0; 2014 SL_{318}, 3, 1, 0; 2014 SR_{349}, 3, 1, 0; 2014 SV_{349}, 3, 1, 0; 2014 SX_{349}, 3, 1, 0; 2014 SZ_{349}, 3, 1, 0; 2014 SC_{350}, 3, 1, 0; 2014 SD_{350}, 3, 1, 0; 2014 SE_{350}, 3, 1, 0; 2014 SF_{350}, 3, 1, 0; 2014 UU_{224}, 3, 1, 0; 2014 WA_{51}, 3, 1, 0; 2014 WM_{339}, 3, 1, 0; 2014 WF_{510}, 3, 1, 0; 2015 AH_{41}, 3, 1, 0; 2015 BL_{518}, 7, 1, 0; 2015 BO_{521}, 3, 1, 0; 2015 DA_{223}, 3, 1, 0; 2015 GO_{50}, 3, 1, 0; 2015 GS_{50}, 3, 1, 0; 2015 HD_{66}, 3, 1, 0; 2015 HC_{76}, 3, 1, 0; 2015 HE_{76}, 3, 1, 0; 2015 HO_{78}, 3, 1, 0; 2015 HM_{176}, 3, 1, 0; 2015 KP_{41}, 3, 1, 0; 2015 KF_{45}, 3, 1, 0; 2015 KA_{61}, 3, 1, 0; 2015 OY, 3, 1, 0; 2015 OF_{17}, 3, 1, 0; 2015 PR_{35}, 3, 1, 0; 2015 SO_{20}, 3, 1, 0; 2015 XL_{386}, 3, 1, 0; 2016 BZ_{27}, 3, 1, 0; 2016 DZ_{24}, 3, 1, 0; 2016 LE_{9}, 3, 1, 0; 2016 RX_{37}, 3, 1, 0; 2016 UM_{54}, 3, 1, 0; 2016 UF_{123}, 3, 1, 0; 2017 AB_{15}, 3, 1, 0; 2017 DT_{33}, 3, 1, 0; 2017 FM_{55}, 3, 1, 0; (1404), 3, 1, 0; (1762), 3, 1, 0; (1774), 3, 1, 0; (1897), 3, 1, 0; (3154), 3, 1, 0; (3495), 3, 1, 0; (3794), 3, 1, 0; (3867), 3, 1, 0; (4014), 3, 1, 0; (4754), 3, 1, 0; (6492), 3, 1, 0; (7445), 3, 1, 0; (7810), 3, 1, 0; (8060), 3, 1, 0; (8712), 3, 1, 0; (9022), 3, 1, 0; 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(252762), 3, 1, 0; (253340), 3, 1, 0; (254270), 3, 1, 0; (255094), 3, 1, 0; (255982), 3, 1, 0; (256379), 3, 1, 0; (256716), 4, 1, 0; (256829), 3, 1, 0; (257409), 3, 1, 0; (257495), 3, 1, 0; (259076), 7, 2, 2; (260263), 3, 1, 0; (260831), 8, 1, 0; (261332), 3, 1, 0; (262426), 3, 1, 0; (262682), 3, 1, 0; (263816), 3, 1, 0; (264094), 3, 1, 0; (264135), 3, 1, 0; (264154), 3, 1, 0; (264385), 3, 1, 0; (264391), 3, 1, 0; (264587), 3, 1, 0; (264595), 3, 1, 0; (264813), 3, 1, 0; (265339), 3, 1, 0; (265830), 3, 1, 0; (266017), 3, 1, 0; (266647), 3, 1, 0; (266870), 3, 1, 0; (267099), 3, 1, 0; (267153), 3, 1, 0; (268816), 3, 1, 0; (268821), 3, 1, 0; (269624), 3, 1, 0; (273504), 3, 1, 0; (273512), 3, 1, 0; (274097), 3, 1, 0; (274905), 3, 1, 0; (275059), 3, 1, 0; (275370), 3, 1, 0; (284601), 3, 1, 0; (285223), 3, 1, 0; (286591), 3, 1, 0; (291686), 3, 1, 0; (293829), 4, 1, 0; (294023), 3, 1, 0; (295491), 3, 1, 0; (295520), 3, 1, 0; (295621), 3, 1, 0; (295653), 3, 1, 0; (296592), 3, 1, 0; (296777), 3, 1, 0; (296800), 3, 1, 0; (297677), 3, 1, 0; (297758), 3, 1, 0; (299274), 6, 2, 3; (300231), 3, 1, 0; (300375), 4, 1, 0; (302185), 4, 1, 0; (302791), 3, 1, 0; (304420), 3, 1, 0; (305203), 4, 1, 0; (305283), 4, 1, 0; (306587), 11, 1, 0; (306610), 3, 1, 0; (306753), 3, 1, 0; (309774), 3, 1, 0; (311036), 4, 1, 0; (312458), 3, 1, 0; (312487), 3, 1, 0; (312700), 3, 1, 0; (312707), 3, 1, 0; (312890), 3, 1, 0; (314176), 3, 1, 0; (314186), 3, 1, 0; (315195), 6, 2, 377; (315368), 4, 1, 0; (315903), 4, 1, 0; (315908), 3, 1, 0; (315948), 3, 1, 0; (315950), 3, 1, 0; (316134), 3, 1, 0; (316260), 3, 1, 0; (316410), 3, 1, 0; (316835), 3, 1, 0; (319378), 3, 1, 0; (320068), 3, 1, 0; (320544), 3, 1, 0; (321150), 3, 1, 0; (321627), 3, 1, 0; (321674), 4, 1, 0; (322520), 3, 1, 0; (323408), 3, 1, 0; (336417), 3, 1, 0; (336558), 3, 1, 0; (336828), 3, 1, 0; (337722), 3, 1, 0; (338204), 3, 1, 0; (340430), 3, 1, 0; (345104), 3, 1, 0; (347444), 3, 1, 0; (349806), 3, 1, 0; (350109), 3, 1, 0; (350345), 3, 1, 0; (353189), 3, 1, 0; (353230), 3, 1, 0; (354008), 3, 1, 0; (355842), 3, 1, 0; (356213), 3, 1, 0; (356262), 3, 1, 0; (356419), 3, 1, 0; (356429), 3, 1, 0; (356439), 3, 1, 0; (356448), 3, 1, 0; (356451), 3, 1, 0; (356896), 3, 1, 0; (356901), 3, 1, 0; (356912), 3, 1, 0; (356914), 3, 1, 0; (357304), 3, 1, 0; (357913), 4, 1, 0; (358442), 4, 1, 0; (358513), 3, 1, 0; (358683), 4, 1, 0; (358877), 4, 1, 0; (359360), 3, 1, 0; (359601), 4, 1, 0; (360942), 3, 1, 0; (361563), 4, 1, 0; (361999), 3, 1, 0; (365795), 3, 1, 0; (366329), 3, 1, 0; (367620), 3, 1, 0; (367904), 3, 1, 0; (370333), 3, 1, 0; (378232), 3, 1, 0; (378648), 3, 1, 0; (380914), 3, 1, 0; (381111), 3, 1, 0; (381507), 3, 1, 0; (381853), 3, 1, 0; (381916), 3, 1, 0; (383081), 3, 1, 0; (384053), 3, 1, 0; (385044), 3, 1, 0; (386419), 3, 1, 0; (386697), 3, 1, 0; (388762), 3, 1, 0; (388889), 3, 1, 0; (389706), 6, 2, 1; (390018), 3, 1, 0; (394468), 3, 1, 0; (396405), 3, 1, 0; (396559), 3, 1, 0; (397013), 3, 1, 0; (397244), 4, 1, 0; (398091), 3, 1, 0; (398470), 3, 1, 0; (399388), 7, 1, 0; (400107), 3, 1, 0; (400184), 4, 1, 0; (401063), 3, 1, 0; (401540), 3, 1, 0; (403960), 3, 1, 0; (405549), 3, 1, 0; (406810), 7, 1, 0;

(408686), 3, 1, 0; (411119), 3, 1, 0; (411205), 3, 1, 0; (412051), 4, 1, 0; (413886), 3, 1, 0; (414747), 3, 1, 0; (414994), 3, 1, 0; (415469), 3, 1, 0; (418399), 3, 1, 0; (419731), 3, 1, 0; (420360), 3, 1, 0; (421032), 3, 1, 0; (421742), 4, 1, 0; (421815), 8, 1, 0; (421978), 3, 1, 0; (422000), 4, 1, 0; (422410), 3, 1, 0; (422481), 3, 1, 0; (422594), 3, 1, 0; (423973), 3, 1, 0; (427189), 3, 1, 0; (430072), 3, 1, 0; (430851), 3, 1, 0; (431806), 3, 1, 0; (433382), 3, 1, 0; (433584), 3, 1, 0; (434108), 3, 1, 0; (434818), 3, 1, 0; (434819), 3, 1, 0; (434876), 3, 1, 0; (435778), 3, 1, 0; (435797), 3, 1, 0; (436101), 3, 1, 0; (436999), 3, 1, 0; (437061), 3, 1, 0; (437874), 3, 1, 0; (438592), 4, 1, 0; (439011), 3, 1, 0; (440911), 3, 1, 0; (441408), 3, 1, 0; (442012), 3, 1, 0; (442035), 4, 1, 0; (443027), 3, 1, 0; (443696), 3, 1, 0; (444025), 3, 1, 0; (446753), 4, 1, 0; (447868), 3, 1, 0; (449887), 3, 1, 0; (450090), 3, 1, 0; (450869), 3, 1, 0; (451485), 3, 1, 0; (451984), 3, 1, 0; (452370), 3, 1, 0; (454373), 3, 1, 0; (455251), 4, 1, 0; (455502), 3, 1, 0; (459831), 3, 1, 0; (463865), 3, 1, 0; (467779), 3, 1, 0; (469509), 3, 1, 0; (470739), 3, 1, 0; (471150), 3, 1, 0; (472231), 3, 1, 0; (472235), 3, 1, 0; (473102), 3, 1, 0; (474640), 3, 1, 0; (475661), 3, 1, 0; (476745), 3, 1, 0; (476803), 3, 1, 0; (477266), 3, 1, 0; (479273), 3, 1, 0; (479402), 3, 1, 0; (480392), 3, 1, 0; (481504), 3, 1, 0; (483002), 3, 1, 0; (483217), 3, 1, 0; (483475), 4, 1, 0; (484603), 3, 1, 0; (485129), 3, 1, 0; (486408), 4, 1, 0; (487054), 4, 1, 0; (488796), 3, 1, 0; (489572), 7, 1, 0; (489949), 3, 1, 0; (490215), 3, 1, 0; (490608), 3, 1, 0; (491637), 3, 1, 0; (491649), 3, 1, 0; (492137), 3, 1, 0; (492491), 3, 1, 0; (492505), 3, 1, 0; (493032), 3, 1, 0; (494838), 3, 1, 0; (495104), 4, 1, 0; (495989), 3, 1, 0; *[2494, 764, 0∗, 2013/03/16–2015/09/06]*

{3} 2015 UQ_{84}, 27, 1, 0; 2016 EA_{178}, 29, 1, 0; 2017 OM_{11}, 90, 1, 0; 2017 QY_6, 41, 1, 0; 2017 QA_7, 28, 1, 0; 2017 QD_7, 36, 1, 0; 2017 QP_{20}, 8, 1, 0; *[259, 7, 0∗, 2017/06/02]*

{7} 2014 QF_{442}, 6, 3, 20; 2014 XZ_{40}, 2, 2, 1; 2016 QF_{86} ∗, 8, 6, 361; (136199), 13, 13, 1161; *[29, 4, 1∗, 2013/10/03–2017/08/19]*

{9} 2015 OC_{80}, 4, 1, 0; *[4, 1, 0∗, 2015/09/01]*

W85 Cerro Tololo-LCO A

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P. Chen, P.-J. Dekelver, W. Cuppens

1.0-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR1, USNO-B1.0, URAT-1

2000 YG_{29}, 3, 1, 0; 2001 UQ_{163}, 5, 1, 0; 2003 UP_{165}, 4, 1, 0; 2004 ER_{29}, 5, 1, 0; 2006 DY_{217}, 4, 1, 0; 2006 TU_7, 4, 1, 0; 2006 US_{283}, 5, 1, 0; 2007 TX_{14}, 6, 2, 1; 2008 BA_{38}, 3, 1, 0; 2008 TK_{177}, 6, 1, 0; 2009 KC_{19}, 6, 1, 0; 2010 MZ_{64}, 3, 1, 0; 2010 TS_{60}, 7, 2, 1; 2011 CC_{13}, 4, 1, 0; 2011 KE_3, 3, 1, 0; 2011 PT, 3, 1, 0; 2012 TC_4, 4, 1, 0; 2012 TG_{304}, 4, 1, 0; 2012 UR_{30}, 3, 1, 0; 2013 AE_1, 5, 1, 0; 2013 CC_1, 4, 1, 0; 2013 QN_{12}, 3, 1, 0; 2013 RM_9, 8, 1, 0; 2014 QT_{300}, 2, 1, 0; 2015 BG_{260}, 8, 2, 1; 2015 CK_{29}, 4, 1, 0; 2015 DN_{82}, 3, 1, 0; 2015 ED_{68}, 3, 1, 0; 2016 EX_{198}, 5, 1, 0; 2016 HY, 3, 1, 0; 2016 JL_{16}, 4, 1, 0; 2017 NT_5, 22, 1, 0; 2017 OA_1, 5, 1, 0; 2017 OO_2, 5, 1, 0; 2017 OU_2 ∗, 5, 1, 0; 2017 OV_2 ∗, 5, 1, 0; 2017 OW_2 ∗, 10, 2, 2; 2017 OK_3, 4, 1, 0; 2017 OO_4, 7, 2, 1; 2017 OP_4, 9, 2, 1; 2017 OG_7, 7, 1, 0; 2017 OO_{18}, 3, 1, 0; 2017 OA_{19}, 3, 1, 0; 2017 OM_{19}, 5, 1, 0; 2017 OV_{50}, 4, 1, 0; 2017 OP_{67}, 4, 1, 0; 2017 PD, 4, 1, 0; 2017 PF, 11, 1, 0; 2017 PO_{24}, 3, 1, 0; 2017 PD_{26}, 4, 1, 0; 2017 PN_{26}, 4, 1, 0; 2017 PV_{26}, 3, 1, 0; 2017 PS_{30}, 4, 1, 0; 2017 QD, 4, 1, 0; 2017 QJ, 4, 1, 0; 2017 QM_{16}, 9, 1, 0; 2017 RL_{14}, 4, 1, 0; 2017 RO_{14}, 6, 1, 0; 2017 RP_{14}, 3, 1, 0; 2017 RQ_{14}, 4, 1, 0; 2017 RS_{14}, 2, 1, 0; 2017 RD_{15}, 3, 1, 0; 2017 RR_{15}, 5, 1, 0; 2017 RW_{15}, 4, 1, 0; 2017 RD_{16}, 4, 1, 0; 2017 RS_{16}, 4, 1, 0; 2017 RT_{16}, 5, 1, 0; 2017 SW_1, 3, 1, 0; 2017 SY_1, 6, 1, 0; 2017 SA_2, 6, 1, 0; 2017 SK_2, 3, 1, 0; 2017 SO_2, 4, 1, 0; 2017 SS_2, 4, 1, 0; 2017 SA_3, 3, 1, 0; 2017 SE_{10}, 4, 1, 0; 2017 SJ_{10}, 3, 1, 0; 2017 SR_{10}, 3, 1, 0; 2017 SY_{10}, 3, 1, 0; 2017 SZ_{10}, 3, 1, 0; 2017 SF_{11}, 5, 1, 0; 2017 SS_{11}, 6, 1, 0; 2017 ST_{11}, 5, 1, 0; 2017 SG_{12}, 3, 1, 0; 2017 SK_{12}, 3, 1, 0; 2017 ST_{12}, 3, 1, 0; 2017 SC_{14}, 3, 1, 0; (291), 3, 1, 0; (2203), 6, 1, 0; (5696), 3, 1, 0; (6606), 2, 1, 0; (7297), 3, 1, 0; (11756), 4, 1, 0; (11773), 3, 1, 0; (11925), 9, 2, 1; (13454), 3, 1, 0; (16191), 3, 1, 0; (16221), 6, 1, 0; (17822), 4, 1, 0; (19174), 4, 1, 0; (19968), 4, 1, 0; (21728), 3, 1, 0; (26061), 5, 1, 0; (39413), 6, 1, 0; (42942), 3, 1, 0; (45526), 4, 1, 0; (49681), 6, 1, 0; (54669), 4, 1, 0; (56019), 3, 1, 0; (60100), 4, 1, 0; (60717), 3, 1, 0; (62709), 6, 1, 0; (63743), 5, 1, 0; (67036), 3, 1, 0; (67602), 4, 1, 0; (67904), 5, 1, 0; (72503), 8, 2, 1; (76557), 3, 1, 0; (84595), 4, 1, 0; (86545), 5, 1, 0; (94014), 6, 1, 0; (95138), 4, 1, 0; (96414), 3, 1, 0; (106661), 4, 1, 0; (106716), 4, 1, 0; (111030), 3, 1, 0; (111934), 3, 1, 0; (117495), 2, 1, 0; (122149), 5, 1, 0; (127361), 4, 1, 0; (128896), 5, 1, 0; (129880), 3, 1, 0; (135392), 4, 1, 0; (141598), 6, 1, 0; (142294), 3, 1, 0; (143514), 3, 1, 0; (144856), 4, 1, 0; (146485), 4, 1, 0; (150922), 3, 1, 0; (156174), 4, 1, 0; (156455), 3, 1, 0; (156533), 5, 1, 0; (162183), 12, 2, 1; (163672), 3, 1, 0; (167554), 3, 1, 0; (168788), 4, 1, 0; (170683), 3, 1, 0; (171460), 4, 1, 0; (171812), 5, 1, 0; (173979), 3, 1, 0; (174361), 5, 1, 0; (185010), 3, 1, 0; (191727), 3, 1, 0; (192105), 4, 1, 0; (199427), 3, 1, 0; (202633), 6, 1, 0; (207325), 3, 1, 0; (208196), 3, 1, 0; (208386), 5, 1, 0; (208505), 5, 1, 0; (211218), 4, 1, 0; (211296), 4, 1, 0; (211471), 4, 1, 0; (213459), 4, 1, 0; (213656), 5, 1, 0; (215365), 4, 1, 0; (220873), 4, 1, 0; (224341), 6, 1, 0; (224389), 3, 1, 0; (226062), 4, 1, 0; (228678), 4, 1, 0; (231813), 3, 1, 0; (236574), 3, 1, 0; (248010), 3, 1, 0; (248617), 4, 1, 0; (248645), 3, 1, 0; (254582), 4, 1, 0; (255603), 6, 1, 0; (256794), 4, 1, 0; (259083), 3, 1, 0; (261212), 4, 1, 0; (263315), 4, 1, 0; (270293), 4, 1, 0; (270460), 6, 1, 0; (271836), 3, 1, 0; (273168), 5, 1, 0; (279332), 3, 1, 0; (281854), 5, 1, 0; (290930), 3, 1, 0; (294437), 3, 1, 0; (302852), 4, 1, 0; (304003), 3, 1, 0; (310770), 3, 1, 0; (317968), 3, 1, 0; (318532), 3, 1, 0; (321176), 3, 1, 0; (326798), 4, 1, 0; (327225), 4, 1, 0; (329990), 3, 1, 0; (330255), 3, 1, 0; (331784), 3, 1, 0; (331917), 3, 1, 0; (331923), 4, 1, 0; (336962), 3, 1, 0; (338274), 3, 1, 0; (341421), 3, 1, 0; (343039), 4, 1, 0; (345552), 4, 1, 0; (351763), 4, 1, 0; (359993), 6, 1, 0; (365067), 4, 1, 0; (369746), 2, 1, 0; (370051), 4, 1, 0; (370089), 3, 1, 0; (372518), 4, 1, 0; (375405), 4, 1, 0; (381796), 3, 1, 0; (385083), 5, 1, 0; (410764), 3, 1, 0; (413270), 4, 1, 0; (416069), 4, 1, 0; (416548), 5, 1, 0; (418186), 6, 1, 0; (424669), 6, 1, 0; (425080), 3, 1, 0; (429506), 3, 1, 0; (431426), 4, 1, 0; (432444), 4, 1, 0; (433488), 3, 1, 0; (456969), 3, 1, 0; (462866), 5, 1, 0; (462996), 6, 1, 0; (466975), 3, 1, 0; (496057), 4, 1, 0; (496702), 3, 1, 0; *[989, 234, 3∗, 2017/06/01–2017/09/23]*

W86 Cerro Tololo-LCO B

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane

1.0-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR1

2007 UU_{73}, 4, 1, 0; 2008 SS_{15}, 5, 1, 0; 2010 TS_{60}, 3, 1, 0; 2011 PT, 9, 1, 0; 2013 YZ_{141}, 4, 1, 0; 2015 BG_{260}, 3, 1, 0; 2017 OO_2, 3, 1, 0; 2017 OO_4 ∗, 4, 1, 0; 2017 OP_4 ∗, 3, 1, 0; 2017 OC_7, 5, 1, 0; 2017 OT_{12} ∗, 5, 1, 0; 2017 OK_{18}, 4, 1, 0; 2017 OS_{18}, 4, 1, 0; 2017 OA_{20}, 2, 1, 0; 2017 OM_{67}, 3, 1, 0; 2017 OX_{67}, 3, 1, 0; 2017 OD_{68}, 4, 1, 0; 2017 OB_{69}, 3, 1, 0; (11925), 3, 1, 0; (44967), 4, 1, 0; (72503), 3, 1, 0; (118114), 4, 1, 0; (156455), 3, 1, 0; (170820), 5, 1, 0; (196577), 5, 1, 0; (211296), 3, 1, 0; (269777), 4, 1, 0; (418200), 4, 1, 0; (419720), 4, 1, 0; (496738), 4, 1, 0; *[117, 30, 3∗, 2017/07/24–2017/08/16]*

W87 Cerro Tololo-LCO C

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens

1.0-m $f/8$ Ritchey-Chrétien + CCD, 1-m $f/8$ Ritchey-Chrétien + CCD
Gaia-DR1, UCAC-4, URAT-1

2001 HB, 5, 1, 0; 2009 RT_{74}, 12, 3, 3; 2016 JL_{16}, 4, 1, 0; 2017 NG, 4, 1, 0; 2017 PV_{24}, 4, 1, 0; 2017 PG_{26}, 6, 1, 0; 2017 PH_{26}, 3, 1, 0; 2017 PQ_{26}, 3, 1, 0; 2017 PS_{26}, 4, 1, 0; 2017 QQ_1, 3, 1, 0; (19174), 4, 1, 0; (84595), 4, 1, 0; (112646), 4, 1, 0; (274915), 3, 1, 0; (345552), 4, 1, 0; (495829), 7, 1, 0; *[74, 16, 0∗, 2017/06/02–2017/08/18]*

W88 Slooh.com Chile Observatory, La Dehesa

A. J. Evans, Apartado 286, 8601-929 LUZ LGS, Portugal
[tony.evans@sapo.pt] (1)
G. Gašparović, Actarius Grupa, Badaliceva 25, 1000 Zagreb, Croatia
[gasparovic@actarius.hr] (4)
M. Kumrucu-Lohmiller, 5 Atlas Road, Sharon, MA 02067-1301, U.S.A.
[mklohmiller@gmail.com] (5)
W. F. Cashwell, 65 Apricot Ridge Ave., Las Vegas, NV 89183, U.S.A.
[wfcashwell@gmail.com] (10)
Observers B. Lütkenhöner, A. J. Evans, J. L. Tuten, W. F. Cashwell, G. Gašparović, Y. Chen, M. Kumrucu-Lohmiller
Measurers B. Lütkenhöner, A. J. Evans, W. F. Cashwell, G. Gašparović, Y. Chen, M. Kumrucu-Lohmiller

0.35-m $f/11$ Schmidt-Cassegrain + CCD
UCAC-4, Gaia-DR1

{10} 2004 SS, 4, 1, 0; 2017 BS_6, 2, 1, 0; 2017 RG_2, 3, 1, 0; 2017 SN_2, 3, 1, 0; *[12, 4, 0∗, 2017/07/21–2017/09/21]*

{1} 2017 NN_6, 3, 1, 0; *[3, 1, 0∗, 2017/07/19]*

{4} 2017 OL, 3, 1, 0; 2017 OQ_1, 6, 2, 7; (2060), 3, 1, 0; (205725), 3, 1, 0; (257715), 2, 1, 0; *[17, 5, 0*, 2016/06/20–2017/08/04]*

{5} 1989 VB, 11, 3, 54; 1998 SZ_{27}, 3, 1, 0; 2017 HW_{48}, 5, 2, 1; (496005), 4, 1, 0; *[23, 4, 0*, 2017/07/25–2017/09/19]*

W89 Cerro Tololo-LCO Aqawan A #1

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.
[tlister@lco.global]
Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane

0.4-m $f/8$ Schmidt-Cassegrain + CCD

Gaia-DR1

(3122), 9, 1, 0; *[9, 1, 0*, 2017/08/16]*

W92 MASTER-OAFA Observatory, San Juan

V. Lipunov, Universiteiskiy pr. 13, Moscow 119991, Russia
[lipunov2007@gmail.com]
Observers V. Lipunov, R. Podesta, E. Gorbovskoy, N. Tiurina, P. Balanutsa, A. Kuznetsov, V. Kornilov, V. Chazov, C. Lopez, F. Podesta, H. Levato, C. Saffe, A. Rezaeva

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

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W95 Observatorio Panameno, San Pedro de Atacama

J. Fabrega, Apartado 0819-11182, Panama, Panama [fabrega@ae.com.pa]

PPMXL

2006 DJ_{125}, 4, 1, 0; 2012 RY_{34}, 4, 1, 0; 2012 TQ_{324}, 4, 1, 0; 2014 WW_{477}, 4, 1, 0; 2015 BT_{101}, 4, 1, 0; 2015 BE_{295}, 4, 1, 0; 2015 FT_{115}, 4, 1, 0; 2015 FQ_{333}, 4, 1, 0; *[32, 8, 0*, 2015/02/17–2015/03/21]*

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, T. Noel, J.-F. Soulier, J.-G. Bosch, J.-B. Vanssay

0.4-m $f/5.4$ Ritchey-Chrétien + CCD

Gaia-DR1, UCAC-4

2016 NM_{56}, 1, 1, 0; 2017 QO_{33}, 3, 1, 0; (3200), 4, 2, 29; (5450), 2, 1, 0; (60558), 23, 10, 65; (73811), 3, 1, 0; (165319), 3, 1, 0; (457175), 4, 2, 5; *[43, 8, 0*, 2016/08/04–2017/09/22]*

W98 Polonia Observatory, San Pedro de Atacama

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

Observers M. Gedek, M. Żołnowski, M. Kusiak, R. Reszelewski

0.25-m $f/3.6$ reflector + CCD

UCAC-4

2000 QB_{56}, 3, 1, 0; 2000 SS_{113}, 3, 1, 0; 2000 SH_{233}, 3, 1, 0; 2001 PS_4, 6, 2, 9; 2001 QN_{186}, 3, 1, 0; 2001 QM_{208}, 3, 1, 0; 2001 RW_{119}, 6, 2, 30; 2001 VF_{129}, 3, 1, 0; 2001 VE_{134}, 3, 1, 0; 2002 CK_{318}, 3, 1, 0; 2002 FX_{41}, 3, 1, 0; 2002 QQ_{33}, 3, 1, 0; 2002 QE_{103}, 3, 1, 0; 2002 RP_{122}, 6, 2, 36; 2002 UX_{34}, 6, 2, 9; 2003 QP_{49}, 3, 1, 0; 2003 RV, 3, 1, 0; 2003 SW_{324}, 9, 3, 25; 2003 SV_{334}, 6, 2, 22; 2004 PV_{97}, 3, 1, 0; 2004 RB_{20}, 3, 1, 0; 2004 RG_{39}, 3, 1, 0; 2004 RG_{71}, 3, 1, 0; 2004 RP_{144}, 3, 1, 0; 2004 RG_{194}, 3, 1, 0; 2004 RW_{225}, 3, 1, 0; 2004 RG_{346}, 6, 2, 5; 2004 SG_5, 3, 1, 0; 2004 TY_{35}, 3, 1, 0; 2004 XY_{44}, 3, 1, 0; 2005 SS_{181}, 3, 1, 0; 2005 YN_{23}, 3, 1, 0; 2005 YE_{277}, 3, 1, 0; 2006 HS_{61}, 3, 1, 0; 2006 PY_{25}, 6, 2, 9; 2006 QK_4, 3, 1, 0; 2006 QQ_7, 6, 2, 9; 2006 QP_{14}, 3, 1, 0; 2006 QL_{20}, 9, 3, 28; 2006 QW_{36}, 4, 1, 0; 2006 QT_{49}, 3, 1, 0; 2006 QR_{138}, 3, 1, 0; 2006 RY_7, 3, 1, 0; 2006 RB_{68}, 3, 1, 0; 2006 SQ_{26}, 3, 1, 0; 2006 SZ_{43}, 3, 1, 0; 2006 SY_{192}, 3, 1, 0; 2006 SP_{276}, 3, 1, 0; 2006 SQ_{281}, 3, 1, 0; 2006 SZ_{398}, 3, 1, 0; 2006 TC_{130}, 3, 1, 0; 2006 VQ_{40}, 3, 1, 0; 2007 RC_{134}, 3, 1, 0; 2007 RL_{192}, 3, 1, 0; 2007 RY_{275}, 3, 1, 0; 2007 SD_3, 3, 1, 0; 2007 TL_{58}, 3, 1, 0; 2007 UL_{24}, 3, 1, 0; 2007 UC_{114}, 3, 1, 0; 2008 QS_{29}, 3, 1, 0; 2008 SZ_{31}, 3, 1, 0; 2008 TW_{83}, 3, 1, 0; 2008 TU_{176}, 3, 1, 0; 2008 US_{323}, 3, 1, 0; 2008 UK_{329}, 3, 1, 0; 2009 BK_{50}, 3, 1, 0; 2009 BX_{143}, 3, 1, 0; 2009 CK_{27}, 3, 1, 0; 2009 FC_{10}, 6, 2, 5; 2009 NL_2, 3, 1, 0; 2009 US_{88}, 6, 2, 22; 2009 UQ_{89}, 3, 1, 0; 2009 UL_{103}, 9, 3, 26; 2009 VO_{41}, 6, 2, 36; 2009 WJ_{98}, 3, 1, 0; 2009 WA_{201}, 3, 1, 0; 2009 WN_{208}, 3, 1, 0; 2010 LQ_{93}, 3, 1, 0; 2010 PU_{24}, 3, 1, 0; 2010 PV_{24}, 3, 1, 0; 2010 RW_{145}, 3, 1, 0; 2010 SS_{11}, 3, 1, 0; 2010 SE_{19}, 3, 1, 0; 2010 TV_{58}, 6, 2, 20; 2010 TY_{148}, 4, 1, 0; 2010 UN_{83}, 3, 1, 0; 2010 UU_{87}, 6, 2, 9; 2010 VQ_{25}, 3, 1, 0; 2010 VS_{38}, 3, 1, 0; 2010 XZ_{69}, 3, 1, 0; 2011 BN_{46}, 6, 2, 24; 2011 CC_{23}, 3, 1, 0; 2011 DU_{21}, 3, 1, 0; 2011 DC_{41}, 3, 1, 0; 2011 JO_{16}, 3, 1, 0; 2011 LG_{14}, 3, 1, 0; 2012 FC_{43}, 3, 1, 0; 2012 GV_{39}, 3, 1, 0; 2012 PK_{21}, 3, 1, 0; 2012 PW_{34}, 6, 2, 4; 2012 SE_{15}, 3, 1, 0; 2012 TC_2, 3, 1, 0; 2012 TH_{10}, 3, 1, 0; 2012 TY_{13}, 3, 1, 0; 2012 TC_{59}, 3, 1, 0; 2012 TR_{216}, 3, 1, 0; 2012 TW_{232}, 3, 1, 0; 2012 TA_{304}, 3, 1, 0; 2012 UG_{27}, 3, 1, 0; 2012 UO_{47}, 3, 1, 0; 2012 UL_{101}, 3, 1, 0; 2012 UP_{151}, 3, 1, 0; 2012 UV_{164}, 3, 1, 0; 2012 UV_{165}, 3, 1, 0; 2012 UK_{167}, 3, 1, 0; 2012 VH_{109}, 3, 1, 0; 2012 YU_6, 3, 1, 0; 2013 AE_1, 3, 1, 0; 2013 EA_{99}, 3, 1, 0; 2013 GF_{130}, 3, 1, 0; 2013 PV_{10}, 3, 1, 0; 2013 PW_{24}, 2, 1, 0; 2013 PA_{54}, 3, 1, 0; 2013 PB_{74}, 6, 2, 21; 2013 QS_{82}, 3, 1,

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X14 Observatorio Orbis Tertius, Córdoba

M. Santucho, Saravia 1034, Córdoba, Argentina
[observatorioorbistertius@yahoo.com.ar]

0.20-m $f/5.0$ reflector + CCD
Gaia-DR1
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X39 Observatorio Antares, Pilar

N. Suarez, Observatorio Antares, Pilar del Este, Barrio San Eduardo Lote 108, 1631 Villa Rosa, Pilar, Argentina [nestorhsuarez@gmail.com]

0.20-m $f/5$ reflector + CCD
UCAC-3
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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
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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 E. Rondon, P. Arcoverde, F. Monteiro, D. Lazzaro, R. Souza, T. Rodrigues, H. Medeiros

Measurer M. Micheli

1.0-m $f/7$ reflector + CCD

Gaia-DR1

2016 GA_{222}, 2, 1, 0; 2016 QE_{84}, 2, 1, 0; 2017 OP_{1}, 3, 1, 0; 2017 PV_{26}, 6, 1, 0; *[13, 4, 0∗, 2017/07/26–2017/09/18]*

Z17 Tenerife-LCO Aqawan A #2

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]

Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens

0.4-m $f/8$ Schmidt-Cassegrain + CCD

UCAC-4, Gaia-DR1, URAT-1

2014 QU_{403}, 3, 1, 0; 2014 VU_{1}, 4, 1, 0; 2017 OE_{68}, 4, 1, 0; 2017 PP_{24}, 3, 1, 0; 2017 PA_{25}, 3, 1, 0; 2017 SP_{17}, 4, 1, 0; (11027), 22, 3, 2; (16208), 19, 3, 2; (26272), 35, 3, 2; (45816), 3, 1, 0; (107425), 10, 2, 1; (119460), 3, 1, 0; (299736), 3, 1, 0; *[116, 13, 0∗, 2017/06/12–2017/09/28]*

Z21 Tenerife-LCO Aqawan A #1

T. Lister, LCO, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. [tlister@lco.global]

Observers T. Lister, S. Greenstreet, E. Gomez, J. MacFarlane, P.-J. Dekelver, W. Cuppens

0.4-m $f/8$ Ritchey-Chrétien + CCD

Gaia-DR1, URAT-1, UCAC-4

2017 EQ_{22}, 4, 1, 0; 2017 LY, 5, 1, 0; 2017 OF_{7}, 5, 1, 0; 2017 PR_{24}, 4, 1, 0; 2017 PC_{27}, 3, 1, 0; (3122), 20, 1, 0; (33163), 4, 1, 0; (54242), 4, 1, 0; (135189), 4, 1, 0; *[53, 9, 0∗, 2017/07/08–2017/09/12]*

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, A. Rezaeva

0.4-m $f/2.5$ reflector + CCD

USNO-B1.0

(6), 3, 1, 0; (20), 7, 2, 9; (23), 2, 1, 0; (25), 3, 1, 0; (30), 6, 1, 0; (32), 2, 1, 0; (38), 9, 1, 0; (44), 6, 1, 0; (48), 13, 3, 46; (50), 9, 3, 17; (53), 12, 2, 56; (57), 2, 1, 0; (64), 2, 1, 0; (89), 5, 1, 0; (90), 3, 1, 0; (92), 2, 1, 0; (95), 3, 1, 0; (105), 9, 2, 1; (122), 6, 2, 72; (123), 3, 1, 0; (125), 3, 1, 0; (126), 4, 1, 0; (134), 2, 1, 0; (136), 3, 1, 0; (139), 2, 1, 0; (140), 6, 1, 0; (148), 6, 1, 0; (152), 6, 1, 0; (153), 2, 1, 0; (154), 2, 1, 0; (155), 6, 2, 50; (159), 2, 1, 0; (166), 4, 2, 41; (169), 8, 2, 5; (174), 2, 1, 0; (176), 6, 1, 0; (184), 6, 2, 53; (186), 16, 2, 12; (190), 4, 1, 0; (211), 6, 1, 0; (224), 2, 1, 0; (227), 5, 2, 6; (231), 2, 1, 0; (236), 6, 1, 0; (253), 6, 1, 0; (254), 2, 1, 0; (263), 5, 1, 0; (271), 5, 1, 0; (274), 6, 1, 0; (276), 2, 1, 0; (284), 6, 1, 0; (288), 2, 1, 0; (290), 6, 1, 0; (300), 2, 1, 0; (301), 2, 1, 0; (305), 2, 1, 0; (308), 2, 1, 0; (322), 6, 2, 1; (335), 3, 1, 0; (344), 3, 1, 0; (349), 7, 2, 16; (354), 6, 1, 0; (357), 6, 1, 0; 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(694), 6, 1, 0; (701), 2, 1, 0; (712), 3, 1, 0; (717), 6, 1, 0; (736), 2, 1, 0; (737), 5, 2, 2; (753), 6, 1, 0; (755), 6, 1, 0; (763), 3, 1, 0; (769), 2, 1, 0; (786), 3, 1, 0; (789), 2, 1, 0; (800), 2, 1, 0; (802), 8, 1, 0; (804), 6, 1, 0; (807), 10, 1, 0; (808), 9, 1, 0; (837), 10, 1, 0; (844), 6, 1, 0; (845), 2, 1, 0; (863), 6, 1, 0; (876), 3, 1, 0; (877), 5, 1, 0; (892), 12, 2, 43; (903), 3, 1, 0; (905), 6, 1, 0; (920), 6, 2, 11; (928), 6, 1, 0; (933), 2, 1, 0; (937), 6, 1, 0; (949), 2, 1, 0; (955), 6, 2, 1; (964), 8, 2, 11; (968), 6, 2, 19; (972), 2, 1, 0; (973), 4, 1, 0; (974), 12, 2, 1; (979), 3, 1, 0; (983), 2, 1, 0; (987), 2, 1, 0; (988), 10, 2, 61; (989), 2, 1, 0; (991), 6, 1, 0; (999), 2, 1, 0; (1003), 6, 1, 0; (1007), 3, 1, 0; (1019), 6, 1, 0; (1028), 14, 2, 1; (1038), 10, 2, 4; (1041), 12, 2, 11; (1051), 3, 1, 0; (1063), 2, 1, 0; (1065), 3, 1, 0; (1079), 5, 1, 0; (1086), 2, 1, 0; (1100), 2, 1, 0; (1107), 6, 1, 0; (1111), 6, 1, 0; (1120), 6, 1, 0; (1126), 2, 1, 0; (1145), 6, 1, 0; 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Z38 Picoto Observatory, Leiria

C. M. S. Melo Oliveira, Rua estaç ao caminhos ferro, 430 - Picoto, Souto da Carpalhosa, Leiria 2425-943, Portugal [cloco2@sapo.pt]

0.10-m refractor + CCD

UCAC-4, CMC-15, CMC

2017 MB_1, 16, 2, 1; 2017 PL_{26}, 3, 1, 0; (300), 2, 1, 0; (434), 9, 3, 5; (582), 9, 3, 7; (837), 2, 1, 0; (1019), 9, 3, 7; (1263), 6, 2, 7; (1309), 4, 2, 2; (1865), 2, 1, 0; (1980), 3, 1, 0; (2522), 3, 1, 0; (3101), 1, 1, 0; (3122), 6, 2, 18; (3288), 3, 1, 0; (3495), 2, 1, 0; (4111), 2, 1, 0; (4317), 2, 1, 0; (4446), 2, 2, 2; (4975), 2, 1, 0; (5289), 3, 2, 2; (6053), 8, 3, 46; (7336), 4, 2, 6; (8915), 1, 1, 0; (9121), 4, 2, 2; (10132), 3, 2, 2; (11398), 3, 1, 0; (13657), 1, 1, 0; (19140), 2, 1, 0; (19239), 12, 6, 23; (19318), 10, 5, 22; (19536), 8, 4, 15; (19711), 5, 3, 23; (20187), 6, 3, 23; (20460), 8, 5, 41; (22697), 6, 3, 5; (22851), 1, 1, 0; (26650), 3, 2, 2; (28928), 3, 2, 5; (29242), 7, 3, 3; (35736), 1, 1, 0; (49297), 2, 1, 0; (52705), 1, 1, 0; (55546), 3, 1, 0; (56289), 2, 1, 0; (56321), 1, 1, 0; (61174), 3, 1, 0; (62667), 2, 1, 0; (68950), 2, 1, 0; (81916), 2, 1, 0; (83990), 7, 4, 22; (90075), 2, 1, 0; (108504), 2, 1, 0; (117745), 1, 1, 0; (142561), 2, 1, 0; (165747), 2, 1, 0; (190166), 2, 1, 0; (496018), 3, 1, 0; *[226, 58, 0*, 2017/07/19–2017/09/29]*

Z40 El Manzanillo Observatory, Puerto de la Torre

J. V. Matrinez O., Nenufar 36, Málaga 29190, Spain [martinillo@astroguam.com]

0.15-m $f//$ refractor + CCD

USNO-SA2.0

(3122), 3, 1, 0; *[3, 1, 0*, 2017/09/01]*

Z41 Irydeo Observatory, Camarma de Esteruelas

F. Calvo, Guirnalda 12, 28816 Camarma de Esteruelas, Madrid 28816, Spain [irydeo.obs@gmail.com]

0.3-m $f/5.3$ Ritchey-Chrétien + CCD

URAT-1

(68950), 1, 1, 0; *[1, 1, 0*, 2017/09/11]*

Z43 Landehen

C. Ratinaud, 14 allee des ajoncs d or, 22400 Landehen, France [kuzhadur@gmail.com]

0.25-m $f/4.7$ reflector + CCD + GPS-tagged video

UCAC-4

2014 YC_{15}, 5, 2, 3; 2017 OP_{68}, 4, 1, 0; 2017 PR_{25}, 4, 1, 0; (2329), 5, 2, 5; (3122), 5, 2, 13; (6053), 10, 4, 23; (11398), 3, 1, 0; (90075), 16, 5, 30; (96631), 2, 1, 0; (190166), 24, 9, 59; (265962), 9, 3, 15; (422699), 2, 1, 0; *[89, 12, 0*, 2017/07/04–2017/09/21]*

Z47 Runcorn
G. Marshall, 37 The Tithings, Halton Brook, Runcorn, Cheshire, WA7 2DT, England [garymarshall85@hotmail.co.uk]
0.12-m $f/8.33$ refractor + CCD
Tycho-2
(3122), 2, 1, 0; *[2, 1, 0∗, 2017/09/15]*

Z52 The Studios Observatory, Grantham
S. C. Percy, 31 Ipswich Gardens, Grantham, UK, NG31 8SE, United Kingdom [mail@opussoftware.co.uk]
0.36-m $f/7$ Schmidt-Cassegrain + CCD
Gaia-DR1
(1980), 3, 1, 0; (3122), 6, 2, 2; (6053), 6, 2, 1; (68950), 2, 1, 0; (90075), 9, 3, 12; (190166), 5, 2, 11; *[31, 6, 0∗, 2017/08/15–2017/09/21]*

Z57 Observatorio Zuben, Alhaurín de la Torre
C. Malagon, Calle Ciprés 7, Alhaurín de la Torre, Málaga 29130, Spain [carlosmalagon2011@gmail.com]
0.25-m $f/8$ Ritchey-Chrétien + CCD
UCAC-3, UCAC-4
(714), 4, 1, 0; (3122), 4, 1, 0; *[8, 2, 0∗, 2017/09/01]*

Z80 Northolt Branch Observatory
G. Wells, Flat 5, 44 Dabbs Hill Lane, Northolt, Middlesex, UB5 4AG, England [northoltbranchastro@hotmail.com]
Observers G. Wells, J. Leuty
Measurer D. Bamberger
0.25-m $f/8$ Ritchey-Chrétien + CCD, 0.15-m $f/10$ Schmidt-Cassegrain + CCD, 0.07-m $f/5.9$ refractor + CCD
UCAC-4, Gaia-DR1, Gaia-DR1
2008 MH_1, 3, 1, 0; 2009 BF, 3, 1, 0; 2014 JO_{25}, 9, 1, 0; 2014 SR_{339}, 3, 1, 0; 2014 YC_{15}, 17, 2, 25; 2015 KN_{120}, 3, 1, 0; 2017 BM_{31}, 6, 1, 0; 2017 GQ_6, 8, 2, 24; 2017 MB_1, 20, 2, 12; 2017 MC_4, 19, 2, 2; 2017 NH, 17, 2, 2; 2017 NS_5, 18, 1, 0; 2017 NM_6, 7, 1, 0; 2017 OD, 4, 1, 0; 2017 OL_1, 23, 3, 6; 2017 OM_1, 18, 1, 0; 2017 OH_7, 4, 1, 0; 2017 OK_7, 3, 1, 0; 2017 OT_{18}, 3, 1, 0; 2017 OP_{68}, 8, 1, 0; 2017 PR_{24}, 2, 1, 0; 2017 PX_{24}, 3, 1, 0; 2017 PS_{25}, 2, 1, 0; 2017 PT_{25}, 15, 2, 4; 2017 PJ_{26}, 9, 1, 0; 2017 PL_{26}, 10, 2, 3; 2017 RL, 12, 3, 14; 2017 RV_1, 13, 3, 6; 2017 RK_2, 4, 1, 0; (1583), 6, 1, 0; (3122), 100, 8, 23; (6053), 17, 2, 21; (8117), 3, 1, 0; (11398), 6, 1, 0; (68950), 8, 2, 6; (70299), 4, 1, 0; (90075), 28, 3, 30; (138925), 9, 1, 0; (142464), 3, 1, 0; (142561), 12, 2, 12; (143992), 5, 1, 0; (153415), 8, 2, 9; (163693), 6, 1, 0; (190166), 50, 6, 60; (237805), 16, 2, 9; (265962), 15, 3, 35; (322763), 2, 1, 0; (495848), 5, 2, 39; (496018), 22, 3, 29; *[591, 49, 0∗, 2017/04/06–2017/09/22]*

Z84 Calar Alto-Schmidt
M. Micheli, no details supplied [marco.micheli@esa.int]
Observers M. Micheli, E. Schwab, D. Koschny
0.8-m $f/3$ Schmidt + CCD
Gaia-DR1, PPMXL
2010 EB_{67}, 2, 1, 0; 2010 VV_{20}, 3, 1, 0; 2013 TV_6, 3, 1, 0; 2014 QE_{365}, 2, 1, 0; 2015 CM_{53}, 3, 1, 0; 2017 OP_1, 4, 1, 0; 2017 PY_{26}, 7, 2, 1; 2017 QB, 3, 1, 0; 2017 QN, 2, 1, 0; 2017 QR_1, 3, 1, 0; 2017 QT_1, 4, 1, 0; 2017 RW_1, 5, 1, 0; 2017 RX_1, 8, 1, 0; 2017 SP_2, 4, 1, 0; 2017 SH_{10}, 3, 1, 0; 2017 SX_{17}, 7, 1, 0; 2017 SZ_{20}, 2, 1, 0; (25653), 3, 1, 0; (44958), 4, 1, 0; (54523), 3, 1, 0; (158519), 3, 1, 0; (192184), 3, 1, 0; (192320), 4, 1, 0; (215854), 4, 1, 0; (340742), 3, 1, 0; (341680), 3, 1, 0; (366818), 3, 1, 0; *[98, 27, 0∗, 2017/07/20–2017/09/29]*

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
(89), 2, 1, 0; (3259), 2, 1, 0; (6053), 3, 1, 0; (12377), 3, 1, 0; (90075), 6, 2, 12; (122234), 3, 1, 0; (265962), 3, 1, 0; *[22, 7, 0∗, 2017/09/09–2017/09/21]*

Z92 West Park Observatory, Leeds
A. R. Pratt, 76 Latchmere View, Leeds, West Yorkshire, LS16 5DT, England [alexander.pratt@btinternet.com]
0.28-m $f/10$ Schmidt-Cassegrain + CCD + $f/3.3$ focal reducer
UCAC-4
2017 CS, 5, 1, 0; *[5, 1, 0∗, 2017/06/04]*

ORBITAL ELEMENTS

Orbital elements have been computed and identifications found by the following contributors:

À. López, Observatorio Astronomico de Valencia, Avda. Blasco Ibanez 13, E-46010 Valencia, Spain [alvaro.lopez@uv.es]
F. Manca, Osservatorio Astronomico di Sormano, Loc. Colma del Piano, I-22030 SORMANO (Co), Italy [obs.sormano@alice.it]
R. D. Matson, 8 Merano Ct., Newport Coast, CA 92657, U.S.A. [matsonr@saic.com]
A. Odasso, Via Francesco Anzani 3, 20135, Milano (MI), Italy [alessandro_odasso@hotmail.com]
P. Sicoli, Osservatorio Astronomico di Sormano, Loc. Colma del Piano, I-22030 SORMANO (Co), Italy [obs.sormano@alice.it]
R. Weryk, B-110, Institute for Astronomy, University of Hawaii, 2680 Woodlawn Drive, Honolulu HI 96822, U.S.A. [weryk@hawaii.edu]
G. V. Williams, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [gwilliams@cfa.harvard.edu]
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/1995 O1 (Hale-Bopp)
Epoch 1997 Mar. 13.0 TT = JDT 2450520.5

				MPCW	
T	1997 Apr. 1.13727 TT			**P**	**Q**
q	0.9141407		(2000.0)		
z	+0.0053998	ω	130.58879	−0.13312075	−0.17030406
		Ω	282.47071	+0.28229358	+0.93780525
e	0.9950638	i	89.43006	+0.95004695	−0.30251916

From 3093 observations 1995 July 24–2013 Aug. 13, mean residual 0″.8.
Nongravitational parameters $A_1 = +1.36$, $A_2 = +0.0894$.

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

				MPCW	
T	2019 Feb. 26.63165 TT			**P**	**Q**
q	8.4455119		(2000.0)		
z	+0.0001979	ω	88.08668	−0.36205185	−0.74305446
	±0.0000005	Ω	43.06730	+0.07255475	−0.62443468
e	0.9983284	i	55.51177	+0.92933001	−0.24073100

From 940 observations 2009 Sept. 16–2017 Sept. 26, mean residual 0″.6.

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

				MPCW	
T	2013 Dec. 25.29202 TT				
q	3.4434427		(2000.0)	**P**	**Q**
z	−0.0001502	ω	85.29283	+0.07042151	+0.97005811
	±0.0000000	Ω	163.94718	+0.16358640	−0.24109395
e	1.0005172	i	122.79880	+0.98401235	−0.02934238

From 6111 observations 2011 Mar. 10–2017 Sept. 15, mean residual 0″.5.

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

				MPCW	
T	2016 May 26.89721 TT				
q	4.8833081		(2000.0)	**P**	**Q**
z	+0.0260346	ω	180.59782	+0.99445341	+0.09830677
	±0.0000000	Ω	173.40040	−0.09509839	+0.99227938
e	0.8728650	i	18.98676	−0.04493015	+0.07561361

From 2856 observations 2011 May 21–2017 Sept. 28, mean residual 0″.4.

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

				MPCW	
T	2015 Apr. 6.67474 TT				
q	3.4569653		(2000.0)	**P**	**Q**
z	−0.0005294	ω	104.01958	−0.01881077	+0.99845751
	±0.0000002	Ω	164.61383	−0.97640521	−0.00710349
e	1.0018302	i	11.35471	−0.21512560	−0.05506489

From 1497 observations 2012 Jan. 19–2017 July 4, mean residual 0″.6.

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

				MPCW	
T	2015 Aug. 16.60733 TT				
q	6.5360537		(2000.0)	**P**	**Q**
z	+0.0001226	ω	145.15586	+0.51118140	+0.83866478
	±0.0000005	Ω	153.98759	−0.85327540	+0.52142629
e	0.9991989	i	25.37971	−0.10302750	−0.15734042

From 392 observations 2012 May 23–2017 Sept. 26, mean residual 0″.6.

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

				MPCW	
T	2015 Aug. 30.28847 TT				
q	9.1310035		(2000.0)	**P**	**Q**
n	0.01531269	ω	308.79062	−0.91035195	+0.24123958
a	16.0608425	Ω	247.52490	−0.16366630	−0.95615034
e	0.4314742	i	21.33909	−0.38009561	−0.16607225
P	64.37				

From 422 observations 2013 Feb. 14–2017 July 19, mean residual 0″.5.

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

				MPCW	
T	2014 Nov. 23.83245 TT				
q	8.6465379		(2000.0)	**P**	**Q**
z	−0.0001400	ω	177.18379	+0.99782248	+0.04583899
	±0.0000007	Ω	177.27541	−0.05998760	+0.33180677
e	1.0012106	i	93.91037	+0.02741878	−0.94223302

From 466 observations 2013 Aug. 8–2017 Aug. 13, mean residual 0″.4.

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

				MPCW	
T	2015 Nov. 15.72130 TT				
q	0.8229671		(2000.0)	**P**	**Q**
z	−0.0003401	ω	340.35818	−0.90560036	−0.42050840
		Ω	186.14461	−0.28588026	+0.50883686
e	1.0002799	i	148.87835	−0.31330572	+0.75117091

From 4307 observations 2013 Aug. 14–2017 Sept. 16, mean residual 0″.4.
Nongravitational parameters $A_1 = +0.85$, $A_2 = -0.0170$.

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

				MPCW	
T	2015 Oct. 7.60067 TT				
q	5.1854116		(2000.0)	**P**	**Q**
z	−0.0004971	ω	40.44926	+0.22786066	−0.60307992
	±0.0000002	Ω	55.62129	+0.46389243	−0.62303035
e	1.0025779	i	67.85538	+0.85608605	+0.49812428

From 2288 observations 2013 Oct. 23–2017 Sept. 24, mean residual 0″.5.

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

				MPCW	
T	2016 Apr. 20.72551 TT				
q	1.3142718		(2000.0)	**P**	**Q**
z	−0.0007434	ω	164.45775	+0.82526273	−0.52102796
		Ω	130.95580	−0.54401944	−0.62986010
e	1.0009770	i	163.23187	−0.15160565	−0.57602614

From 3262 observations 2013 Nov. 29–2017 July 18, mean residual 0″.8.
Nongravitational parameters $A_1 = +2.34$, $A_2 = +0.2072$, $A_3 = -0.6579$.

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

				MPCW	
T	2015 Sept. 5.86435 TT				
q	4.1801820		(2000.0)	**P**	**Q**
z	−0.0001953	ω	356.78843	+0.85257578	+0.30629472
	±0.0000003	Ω	29.72718	+0.49649575	−0.72761933
e	1.0008166	i	121.35890	+0.16311504	+0.61380262

From 2588 observations 2014 Jan. 12–2017 Sept. 17, mean residual 0″.5.

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

				MPCW	
T	2016 Dec. 10.75343 TT				
q	6.2442861		(2000.0)	**P**	**Q**
z	+0.0000888	ω	65.74372	−0.08367878	+0.50406490
	±0.0000002	Ω	240.40003	−0.74841206	+0.53775956
e	0.9994457	i	81.34884	+0.65793408	+0.67582041

From 1204 observations 2014 May 8–2017 Sept. 26, mean residual 0″.4.

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

				MPCW	
T	2016 Mar. 10.48316 TT				
q	2.6702087		(2000.0)	**P**	**Q**
z	+0.0006202	ω	85.00943	−0.10046985	−0.35270769
	±0.0000001	Ω	69.96278	−0.27383721	−0.88913940
e	0.9983439	i	81.99860	+0.95651398	−0.29159631

From 3260 observations 2014 Oct. 24–2017 Sept. 11, mean residual 0″.5.

C/2015 B2 (PANSTARRS)
Epoch 2016 May 12.0 TT = JDT 2457520.5
T 2016 May 6.57797 TT MPCW

				P	Q
q	3.3695920		(2000.0)		
z	−0.0001192	ω	284.76967	+0.32051136	+0.89850577
	±0.0000004	Ω	341.90208	+0.51822460	−0.43137480
e	1.0004018	i	105.08813	−0.79291597	+0.08125991

From 231 observations 2015 Jan. 6–2017 Sept. 12, mean residual 0″.4.

C/2015 D3 (PANSTARRS)
Epoch 2016 May 12.0 TT = JDT 2457520.5
T 2016 Apr. 30.77196 TT MPCW

				P	Q
q	8.1487828		(2000.0)		
z	−0.0003062	ω	2.84888	−0.90713249	+0.28892493
	±0.0000012	Ω	156.98045	+0.36899518	+0.19641510
e	1.0024953	i	128.50941	+0.20236897	+0.93698639

From 233 observations 2015 Feb. 17–2017 Apr. 1, mean residual 0″.5.

C/2015 ER$_{61}$ (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 9.94371 TT MPCW

				P	Q
q	1.0421357		(2000.0)		
z	+0.0025780	ω	68.19282	+0.54600795	+0.83284206
	±0.0000001	Ω	235.22118	−0.80369327	+0.49009543
e	0.9973134	i	6.34877	−0.23654268	+0.25725584

From 1883 observations 2015 Jan. 21–2017 Sept. 29, mean residual 0″.5.

C/2015 ER61-B (PANSTARRS)
T 2017 May 9.91674 TT MPCW

				P	Q
q	1.0448108		(2000.0)		
		ω	68.35125	+0.54892745	+0.83090960
		Ω	235.26429	−0.80197713	+0.49288133
e	1.0	i	6.35257	−0.23560846	+0.25818060

From 48 observations 2017 June 11–Aug. 23.

C/2015 H2 (PANSTARRS)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Sept. 13.25324 TT MPCW

				P	Q
q	4.9671575		(2000.0)		
z	−0.0006495	ω	287.90556	+0.17536505	+0.98040376
	±0.0000018	Ω	350.69205	−0.55230772	+0.02250214
e	1.0032262	i	33.70506	−0.81498667	+0.19570928

From 131 observations 2015 Apr. 20–2017 Sept. 26, mean residual 0″.5.

C/2015 LC$_2$ (PANSTARRS)
Epoch 2015 May 18.0 TT = JDT 2457160.5
T 2015 May 1.61186 TT MPCW

				P	Q
q	5.8905703		(2000.0)		
z	−0.0003288	ω	341.82664	−0.67450266	−0.26845587
	±0.0000013	Ω	223.56557	−0.49041552	−0.53339419
e	1.0019366	i	93.71809	−0.55185033	+0.80213595

From 310 observations 2015 June 7–2017 Aug. 23, mean residual 0″.6.

P/2015 M2 (PANSTARRS)
Epoch 2015 Sept. 15.0 TT = JDT 2457280.5
T 2015 Aug. 31.67719 TT MPCW

				P	Q
q	5.9128291		(2000.0)		
n	0.05099867	ω	224.82329	+0.66013249	+0.74795631
a	7.2016187	Ω	86.61588	−0.66827344	+0.62685800
e	0.1789583	i	3.97407	−0.34298063	+0.21819808
P	19.33				

From 131 observations 2015 June 22–2017 Sept. 30, mean residual 0″.5.

C/2015 O1 (PANSTARRS)
Epoch 2018 Feb. 11.0 TT = JDT 2458160.5
T 2018 Feb. 19.04181 TT MPCW

				P	Q
q	3.7295611		(2000.0)		
z	−0.0000282	ω	89.59735	−0.52097959	−0.50148909
	±0.0000005	Ω	299.85558	−0.59858494	+0.79152955
e	1.0001050	i	127.21098	+0.60850335	+0.34927020

From 1628 observations 2015 June 15–2017 Sept. 26, mean residual 0″.4.

C/2015 T2 (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 20.45192 TT MPCW

				P	Q
q	6.9353598		(2000.0)		
z	−0.0000520	ω	30.76272	+0.76567339	+0.05755273
	±0.0000009	Ω	51.06043	+0.27837819	−0.92753196
e	1.0003603	i	124.54723	+0.57987054	+0.36928599

From 156 observations 2015 Oct. 9–2017 Sept. 25, mean residual 0″.4.

C/2015 V1 (PANSTARRS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2017 Dec. 17.73232 TT MPCW

				P	Q
q	4.2668313		(2000.0)		
z	−0.0001257	ω	179.63824	+0.95387605	+0.22990096
	±0.0000004	Ω	197.19414	+0.27376273	−0.40229792
e	1.0005361	i	139.22914	+0.12318463	−0.88617263

From 1230 observations 2015 Nov. 2–2017 Sept. 30, mean residual 0″.4.

C/2015 V2 (Johnson)
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 June 12.34224 TT MPCW

				P	Q
q	1.6369809		(2000.0)		
z	−0.0010787	ω	164.89740	−0.49022530	+0.49433719
	±0.0000001	Ω	69.84906	−0.85775124	−0.12740914
e	1.0017658	i	49.87647	−0.15473192	−0.85988235

From 5348 observations 2015 Jan. 11–2017 July 1, mean residual 0″.5.

C/2015 VL$_{62}$ (Lemmon-Yeung-PANSTARRS)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Aug. 28.59779 TT MPCW

				P	Q
q	2.7202982		(2000.0)		
z	−0.0006717	ω	128.36395	+0.80634707	−0.53708745
	±0.0000003	Ω	94.55070	−0.58984819	−0.69953941
e	1.0018272	i	165.61387	−0.04339948	−0.47136152

From 1929 observations 2015 Nov. 2–2017 Sept. 30, mean residual 0″.5.

C/2016 A1 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 23.36568 TT MPCW

				P	Q
q	5.3278047		(2000.0)		
z	−0.0003766	ω	10.31948	−0.53514017	+0.51120231
	±0.0000012	Ω	128.17453	+0.70123534	−0.17511481
e	1.0020064	i	121.18573	+0.47105626	+0.84143152

From 868 observations 2016 Jan. 1–2017 May 20, mean residual 0″.4.

C/2016 A8 (LINEAR)
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Aug. 30.66920 TT MPCW

				P	Q
q	1.8811304		(2000.0)		
z	+0.0285259	ω	130.26544	+0.83864266	−0.23574130
	±0.0000000	Ω	111.23261	−0.49712426	−0.69967814
e	0.9463391	i	148.21164	+0.22258922	−0.67444535

From 1294 observations 2016 Jan. 14–2017 Mar. 5, mean residual 0″.5.

C/2016 B1 (NEOWISE)
Epoch 2016 Nov. 28.0 TT = JDT 2457720.5
T 2016 Dec. 4.70819 TT MPCW

				P	Q
q	3.2061757		(2000.0)		
z	+0.0023170	ω	8.55712	−0.53486298	+0.58731002
	±0.0000012	Ω	231.95371	−0.81368494	−0.55175021
e	0.9925712	i	50.47482	−0.22768052	+0.59214748

From 485 observations 2016 Jan. 17–2017 Sept. 25, mean residual 0″.6.

C/2016 M1 (PANSTARRS)
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5
T 2018 Aug. 10.17184 TT MPCW

				P	Q
q	2.2104851		(2000.0)		
z	+0.0004084	ω	209.82603	+0.02467873	−0.03424774
	±0.0000006	Ω	92.20319	−0.59785816	+0.80048997
e	0.9990973	i	90.99985	−0.80122193	−0.59836686

From 1831 observations 2016 June 22–2017 Oct. 1, mean residual 0″.4.

C/2016 N4 (MASTER)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Sept. 16.59940 TT MPCW

				P	Q
q	3.1991023		(2000.0)		
z	+0.0001973	ω	55.95570	+0.58262584	−0.80666359
	±0.0000006	Ω	354.03141	−0.14120870	+0.01973118
e	0.9993690	i	72.55729	+0.80037943	+0.59068142

From 1055 observations 2016 July 15–2017 Sept. 25, mean residual 0″.5.

C/2016 N6 (PANSTARRS)
Epoch 2018 July 21.0 TT = JDT 2458320.5
T 2018 July 18.20977 TT MPCW

				P	Q
q	2.6690976		(2000.0)		
z	+0.0004633	ω	162.80513	−0.53334864	+0.08478992
	±0.0000007	Ω	298.97610	+0.61778116	+0.71870053
e	0.9987633	i	105.83222	+0.57782841	−0.69013058

From 1077 observations 2016 June 27–2017 Sept. 26, mean residual 0″.4.

C/2016 Q2 (PANSTARRS)
Epoch 2021 May 26.0 TT = JDT 2459360.5
T 2021 May 11.71773 TT MPCW

				P	Q
q	7.0810826		(2000.0)		
z	−0.0001381	ω	84.53122	−0.12670295	−0.80692650
	±0.0000135	Ω	322.29577	−0.66686624	+0.49983924
e	1.0009780	i	109.38849	+0.73432675	+0.31469089

From 61 observations 2016 Aug. 26–2017 Sept. 16, mean residual 0″.5.

C/2016 R2 (PANSTARRS)
Epoch 2018 May 2.0 TT = JDT 2458240.5
T 2018 May 9.58387 TT MPCW

				P	Q
q	2.6023554		(2000.0)		
z	+0.0014009	ω	33.19251	−0.14727195	−0.52443326
	±0.0000014	Ω	80.56895	+0.61562225	−0.71221735
e	0.9963542	i	58.22351	+0.77415775	+0.46660069

From 320 observations 2016 Aug. 30–2017 Sept. 30, mean residual 0″.5.

C/2016 T3 (PANSTARRS)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Sept. 6.97528 TT MPCW

				P	Q
q	2.6495124		(2000.0)		
z	+0.0070369	ω	194.67618	−0.26318902	−0.88444533
	±0.0000030	Ω	271.74909	+0.91943995	−0.10898919
e	0.9813556	i	22.67609	+0.29216728	−0.45373760

From 219 observations 2016 Oct. 10–2017 Sept. 17, mean residual 0″.5.

C/2016 VZ$_{18}$ (PANSTARRS)
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5
T 2017 Mar. 7.38008 TT MPCW

				P	Q
q	0.9102661		(2000.0)		
z	+0.0051395	ω	36.38619	−0.66049114	−0.63393467
	±0.0000014	Ω	98.95472	+0.55611957	−0.77306731
e	0.9953217	i	24.03568	+0.50446257	+0.02222093

From 329 observations 2016 Oct. 8–2017 July 25, mean residual 0″.5.

P/2016 WM$_{48}$ (Lemmon)
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5
T 2017 Feb. 26.78498 TT MPCW

				P	Q
q	1.7480708		(2000.0)		
n	0.04200701	ω	35.85659	+0.64109558	+0.03022751
a	8.1957410	Ω	59.87469	+0.31183485	−0.92328156
e	0.7867099	i	117.54825	+0.70125280	+0.38293271
P	23.46				

From 173 observations 2016 Nov. 30–2017 Aug. 15, mean residual 0″.4.

C/2017 B3 (LINEAR)
Epoch 2019 Feb. 6.0 TT = JDT 2458520.5
T 2019 Feb. 2.48169 TT MPCW

				P	Q
q	3.9210225		(2000.0)		
z	−0.0005507	ω	284.75052	+0.27592566	+0.96068538
	±0.0000097	Ω	2.17691	−0.19812362	+0.08820180
e	1.0021594	i	54.17810	−0.94053818	+0.26325661

From 199 observations 2017 Jan. 26–July 21, mean residual 0″.4.

C/2017 C2 (PANSTARRS)
Epoch 2017 Jan. 7.0 TT = JDT 2457760.5

				MPCW	
T	2017 Jan. 21.61320 TT				
q	2.4310120		(2000.0)	**P**	**Q**
z	+0.0101505	ω	138.77446	−0.03647724	+0.56509270
	±0.0000140	Ω	249.81974	+0.51729334	+0.71634986
e	0.9753239	i	118.58274	+0.85503041	−0.40928368

From 83 observations 2017 Feb. 4–Sept. 17, mean residual 0″.5.

C/2017 D2 (Barros)
Epoch 2017 July 26.0 TT = JDT 2457960.5

				MPCW	
T	2017 July 14.53025 TT				
q	2.4858763		(2000.0)	**P**	**Q**
z	+0.0007273	ω	334.33852	+0.60945350	+0.75194471
	±0.0000013	Ω	331.04192	−0.60815447	+0.24004968
e	0.9981920	i	31.26573	−0.50863992	+0.61396686

From 344 observations 2017 Feb. 23–Sept. 28, mean residual 0″.5.

C/2017 D3 (ATLAS)
Epoch 2017 May 7.0 TT = JDT 2457880.5

				MPCW	
T	2017 Apr. 26.88398 TT				
q	4.9713354		(2000.0)	**P**	**Q**
z	−0.0004179	ω	340.77431	−0.91590213	−0.39037458
	±0.0000095	Ω	186.60255	−0.16805715	+0.16153272
e	1.0020774	i	125.64425	−0.36452720	+0.90637457

From 264 observations 2017 Feb. 10–July 17, mean residual 0″.5.

C/2017 E1 (Borisov)
Epoch 2017 Mar. 28.0 TT = JDT 2457840.5

				MPCW	
T	2017 Apr. 10.13851 TT				
q	0.9006618		(2000.0)	**P**	**Q**
z	−0.0028576	ω	152.47304	+0.43485739	+0.88754978
	±0.0000202	Ω	142.73315	−0.86548949	+0.45860001
e	1.0025738	i	14.55412	−0.24865035	−0.04406150

From 158 observations 2017 Mar. 1–June 25, mean residual 0″.6.

C/2017 E3 (PANSTARRS)
Epoch 2017 June 16.0 TT = JDT 2457920.5

				MPCW	
T	2017 May 31.47441 TT				
q	5.9153634		(2000.0)	**P**	**Q**
z	−0.0008432	ω	333.65423	−0.77472045	−0.14246089
	±0.0000039	Ω	220.75796	−0.26809345	−0.80837123
e	1.0049879	i	70.66597	−0.57265533	+0.57117498

From 191 observations 2017 Mar. 7–July 22, mean residual 0″.5.

C/2017 F2 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5

				MPCW	
T	2017 Nov. 26.04504 TT				
q	6.9274778		(2000.0)	**P**	**Q**
z	−0.0006518	ω	134.88438	−0.87733978	−0.22804011
	±0.0000281	Ω	38.67588	−0.22088109	−0.58921302
e	1.0045150	i	42.50468	+0.42601227	−0.77512949

From 40 observations 2017 Mar. 31–July 19, mean residual 0″.5.

P/2017 G2 (PANSTARRS)
Epoch 2017 June 16.0 TT = JDT 2457920.5

				MPCW	
T	2017 June 13.91267 TT				
q	2.8462374		(2000.0)	**P**	**Q**
n	0.04244513	ω	105.93956	−0.68296389	+0.01122386
a	8.1392455	Ω	79.81859	−0.42728063	−0.81710958
e	0.6503070	i	47.90642	+0.59244543	−0.57637310
P	23.22				

From 156 observations 2017 Mar. 18–July 26, mean residual 0″.4.

C/2017 G3 (PANSTARRS)
Epoch 2017 Mar. 28.0 TT = JDT 2457840.5

				MPCW	
T	2017 Apr. 15.05420 TT				
q	2.5905341		(2000.0)	**P**	**Q**
z	+0.0033761	ω	73.09953	−0.83357228	−0.42518801
	±0.0000994	Ω	279.46801	−0.53402442	+0.78357937
e	0.9912542	i	159.05110	+0.14133354	+0.45301052

From 131 observations 2017 Apr. 7–May 23, mean residual 0″.4.

C/2017 K1 (PANSTARRS)
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5

				MPCW	
T	2018 Mar. 17.43648 TT				
q	7.2790658		(2000.0)	**P**	**Q**
z	+0.0000281	ω	4.40044	−0.74626718	−0.58718340
	±0.0001576	Ω	225.65200	−0.62331953	+0.45116070
e	0.9997957	i	153.99577	−0.23357669	+0.67206375

From 34 observations 2017 May 21–July 15, mean residual 0″.4.

C/2017 K2 (PANSTARRS)
Epoch 2022 Dec. 7.0 TT = JDT 2459920.5

				MPCW	
T	2022 Dec. 19.65500 TT				
q	1.7969735		(2000.0)	**P**	**Q**
z	−0.0004810	ω	236.19591	+0.01817060	+0.04924698
	±0.0000103	Ω	88.23431	−0.18097019	+0.98245135
e	1.0008644	i	87.56318	−0.98332071	−0.17990017

From 333 observations 2013 May 12–2017 Sept. 25, mean residual 0″.4.

P/2017 K3 (Gasparovic)
Epoch 2017 June 16.0 TT = JDT 2457920.5

				MPCW	
T	2017 May 31.66488 TT				
q	2.3342096		(2000.0)	**P**	**Q**
n	0.07489822	ω	253.28324	−0.38083198	+0.92461472
a	5.5738469	Ω	354.31515	−0.81738393	−0.34038063
e	0.5812211	i	4.27877	−0.43226208	−0.17096386
P	13.16				

From 91 observations 2017 May 21–July 20, mean residual 0″.5.

C/2017 K4 (ATLAS)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5

				MPCW	
T	2018 Jan. 8.03079 TT				
q	2.6481373		(2000.0)	**P**	**Q**
n	0.00662107	ω	15.10605	+0.68511463	+0.68372729
a	28.0877792	Ω	298.89833	−0.69454573	+0.50915914
e	0.9057192	i	16.67873	−0.21960004	+0.52275613
P	149				

From 218 observations 2017 May 26–Sept. 18, mean residual 0″.4.

C/2017 K5 (PANSTARRS)
Epoch 2020 Mar. 12.0 TT = JDT 2458920.5

				MPCW	
T	2020 Mar. 25.65733 TT				
q	7.7037919		(2000.0)	**P**	**Q**
z	+0.0012491	ω	171.58501	+0.19496831	+0.16290847
	±0.0004622	Ω	102.51585	−0.94766093	+0.28549140
e	0.9903770	i	82.19217	−0.25283616	−0.94443395

From 21 observations 2017 May 27–July 22, mean residual 0″.3.

C/2017 K6 (Jacques)
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5

				MPCW	
T	2018 Jan. 3.13733 TT				
q	2.0027976		(2000.0)	**P**	**Q**
z	+0.0009047	ω	303.83735	+0.49566138	−0.22849814
	±0.0000055	Ω	85.05456	+0.75133194	+0.59677826
e	0.9981880	i	57.25118	−0.43568351	+0.76918419

From 128 observations 2017 May 29–Sept. 25, mean residual 0″.5.

C/2017 M3 (PANSTARRS)
Epoch 2017 May 7.0 TT = JDT 2457880.5

				MPCW	
T	2017 Apr. 28.09803 TT				
q	4.6587754		(2000.0)	**P**	**Q**
z	+0.0043391	ω	110.29313	−0.36897613	−0.92179566
	±0.0006251	Ω	6.99830	−0.21812529	−0.03852632
e	0.9797849	i	77.49861	+0.90348103	−0.38575703

From 27 observations 2017 June 20–July 19, mean residual 0″.3.

C/2017 M4 (ATLAS)
Epoch 2019 Feb. 6.0 TT = JDT 2458520.5

				MPCW	
T	2019 Jan. 18.17700 TT				
q	3.2518229		(2000.0)	**P**	**Q**
z	−0.0007321	ω	167.61954	−0.34654485	−0.32823084
	±0.0000106	Ω	65.86679	−0.92164657	+0.29347837
e	1.0023806	i	105.65753	−0.17456879	−0.89785019

From 497 observations 2017 June 16–Sept. 29, mean residual 0″.4.

C/2017 M5 (TOTAS)
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 2.87088 TT				
q	5.9897042		(2000.0)	**P**	**Q**
z	−0.0006076	ω	92.64893	+0.60557478	+0.77914557
	±0.0000813	Ω	216.26398	−0.79443314	+0.58003186
e	1.0036395	i	15.88496	−0.04642393	+0.23768723

From 103 observations 2017 June 23–Sept. 25, mean residual 0″.5.

C/2017 O1 (ASASSN)
Epoch 2017 Oct. 14.0 TT = JDT 2458040.5

				MPCW	
T	2017 Oct. 14.78473 TT				
q	1.4987116		(2000.0)	**P**	**Q**
z	+0.0022998	ω	20.90767	+0.72167902	−0.63351912
	±0.0000088	Ω	25.81025	+0.50849600	+0.21170698
e	0.9965532	i	39.84913	+0.46969268	+0.74420003

From 1527 observations 2017 July 19–Sept. 30, mean residual 0″.5.

P/2017 P1 (PANSTARRS)
Epoch 2018 June 11.0 TT = JDT 2458280.5

				MPCW	
T	2018 June 17.06904 TT				
q	5.4389189		(2000.0)	**P**	**Q**
n	0.04463765	ω	122.14088	+0.95393072	+0.28664335
a	7.8704915	Ω	221.39169	−0.29995939	+0.90490455
e	0.3089480	i	7.70159	−0.00636736	+0.31461619
P	22.08				

From 42 observations 2017 June 25–Aug. 24, mean residual 0″.4.

C/2017 P2 (PANSTARRS)
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5

				MPCW	
T	2017 Dec. 6.57406 TT				
q	2.4617357		(2000.0)	**P**	**Q**
z	+0.0005532	ω	132.24879	+0.53247165	+0.82450067
	±0.0001802	Ω	165.54179	−0.80182911	+0.41884074
e	0.9986381	i	50.08562	+0.27119002	−0.38048796

From 40 observations 2017 Aug. 14–Sept. 13, mean residual 0″.3.

P/2017 R1 (PANSTARRS)
Epoch 2017 Apr. 3.0 TT = JDT 2457846.5

				MPCW	
T	2017 Apr. 8.83434 TT				
q	3.3280894		(2000.0)	**P**	**Q**
n	0.11741795	ω	178.49646	+0.78965608	+0.61297235
a	4.1302823	Ω	143.65546	−0.56338850	+0.74159114
e	0.1942223	i	2.57364	−0.24297463	+0.27259399
P	8.39				

From 56 observations 2017 July 30–Sept. 19, mean residual 0″.4.

C/2017 S2 (PANSTARRS)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5

				MPCW	
T	2017 Aug. 28.60167 TT				
q	3.6139792		(2000.0)	**P**	**Q**
n	0.01062347	ω	305.80987	+0.97210095	−0.13095815
a	20.4939274	Ω	62.44683	+0.21095705	+0.85083118
e	0.8236561	i	12.67945	−0.10255182	+0.50885780
P	92.78				

From 43 observations 2017 Aug. 22–Sept. 29, mean residual 0″.4.

C/2017 S3 (PANSTARRS)
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5
T 2018 Aug. 15.92626 TT MPCW

				P	Q
q	0.2084140		(2000.0)		
z	−0.0003116	ω	255.90245	+0.21704073	−0.96409218
	±0.0001471	Ω	171.08578	+0.20839304	+0.19891892
e	1.0000650	i	99.03108	−0.95365909	−0.17594752

From 30 observations 2017 Aug. 17–Sept. 27, mean residual 0″.4.

P/2017 S5 (ATLAS)
Epoch 2017 July 26.0 TT = JDT 2457960.5
T 2017 July 27.64097 TT MPCW

				P	Q
q	2.1781172		(2000.0)		
n	0.17433936	ω	99.78368	+0.97073636	+0.13915058
a	3.1735042	Ω	252.41725	−0.19916550	+0.92187015
e	0.3136555	i	11.84802	+0.13417909	+0.36165251
P	5.65				

From 108 observations 2017 Sept. 1–30, mean residual 0″.4.

24P/Schaumasse
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 16.92673 TT MPCW

				P	Q
q	1.2063302		(2000.0)		
n	0.11943688	ω	58.05829	−0.72204650	−0.66228864
a	4.0836052	Ω	79.62988	+0.54603784	−0.72309719
e	0.7045919	i	11.73460	+0.42484296	−0.19622490
P	8.25				

From 656 observations 1992 Sept. 24–2017 Oct. 1, mean residual 0″.8.
Nongravitational parameters $A_1 = +0.08$, $A_2 = -0.0478$.

59P/Kearns-Kwee
Epoch 2018 Aug. 30.0 TT = JDT 2458360.5
T 2018 Sept. 16.74629 TT MPCW

				P	Q
q	2.3587520		(2000.0)		
n	0.10342166	ω	127.69928	+0.15688445	−0.98041948
a	4.4949863	Ω	312.82809	+0.84735474	+0.19552611
e	0.4752482	i	9.33933	+0.50732358	−0.02339217
P	9.53				

From 886 observations 1998 July 27–2017 Sept. 24, mean residual 0″.7.
Nongravitational parameters $A_1 = +3.21$, $A_2 = -0.1836$.

62P/Tsuchinshan
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 16.12502 TT MPCW

				P	Q
q	1.3838106		(2000.0)		
n	0.15463037	ω	30.35278	−0.50175748	−0.84841273
a	3.4377387	Ω	90.24406	+0.75587402	−0.52482707
e	0.5974649	i	9.70812	+0.42058757	−0.06893758
P	6.37				

From 653 observations 2004 Sept. 14–2017 Sept. 30, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.32$, $A_2 = -0.0680$.

73P/Schwassmann-Wachmann
Epoch 2017 Mar. 28.0 TT = JDT 2457840.5
T 2017 Mar. 16.84146 TT MPCW

				P	Q
q	0.9721772		(2000.0)		
n	0.18133706	ω	199.38773	−0.02255381	+0.98290674
a	3.0913274	Ω	69.66187	−0.88959538	+0.06366587
e	0.6855146	i	11.23689	−0.45619226	−0.17274548
P	5.44				

From 1150 observations 2010 Nov. 28–2017 Sept. 30, mean residual 0″.7.
Nongravitational parameters $A_1 = +0.61$, $A_2 = +0.0033$.

73P-BT/Schwassmann-Wachmann
Epoch 2017 Mar. 28.0 TT = JDT 2457840.5
T 2017 Mar. 16.83724 TT MPCW

				P	Q
q	0.9720232		(2000.0)		
n	0.18118408	ω	199.36806	−0.02284879	+0.98289304
a	3.0930672	Ω	69.66444	−0.88961259	+0.06341664
e	0.6857413	i	11.23900	−0.45614402	−0.17291502
P	5.44				

From 326 observations 2017 Feb. 10–June 2, mean residual 0″.8.

96P/Machholz
Epoch 2017 Oct. 14.0 TT = JDT 2458040.5
T 2017 Oct. 27.96052 TT MPCW

				P	Q
q	0.1239492		(2000.0)		
n	0.18638415	ω	14.79292	−0.20613642	−0.49003473
a	3.0352658	Ω	94.25441	+0.78919460	−0.59499246
e	0.9591636	i	58.13773	+0.57851505	+0.63706353
P	5.29				

From 925 observations 2007 Apr. 9–2017 Aug. 19, mean residual 0″.6.
Nongravitational parameters $A_1 = -0.01$, $A_2 = -0.0002$.

116P/Wild
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5
T 2016 Jan. 11.54432 TT MPCW

				P	Q
q	2.1870976		(2000.0)		
n	0.15149231	ω	173.31635	−0.96889755	+0.24643325
a	3.4850497	Ω	20.99189	−0.22985598	−0.86247461
e	0.3724343	i	3.60789	−0.09167204	−0.44204999
P	6.51				

From 2469 observations 2006 Sept. 24–2017 Aug. 20, mean residual 0″.6.
Nongravitational parameters $A_1 = +1.51$, $A_2 = -0.1954$, $A_3 = +0.7109$.

145P/Shoemaker-Levy
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Aug. 31.89563 TT MPCW

				P	Q
q	1.9041215		(2000.0)		
n	0.11673075	ω	10.36545	+0.79835027	−0.59571886
a	4.1464765	Ω	26.81006	+0.53758596	+0.63913367
e	0.5407856	i	11.25973	+0.27136357	+0.48644342
P	8.44				

From 265 observations 1991 Sept. 17–2017 Sept. 30, mean residual 0″.6.

164P/Christensen
Epoch 2018 June 11.0 TT = JDT 2458280.5
T 2018 May 31.40964 TT MPCW

q	1.6852535		(2000.0)	**P**	**Q**
n	0.14067455	ω	325.93121	+0.56205800	−0.77835036
a	3.6614999	Ω	88.30568	+0.80745375	+0.44309069
e	0.5397368	i	16.25274	+0.17919053	+0.44479361
P	7.01				

From 903 observations 1998 Jan. 24–2017 Aug. 14, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.15$, $A_2 = +0.0105$.

188P/LINEAR-Mueller
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5
T 2017 Feb. 17.03906 TT MPCW

q	2.5651398		(2000.0)	**P**	**Q**
n	0.10738316	ω	26.77087	+0.90054749	−0.43474556
a	4.3837449	Ω	358.98129	+0.35900730	+0.74782689
e	0.4148520	i	10.51135	+0.24521008	+0.50174819
P	9.18				

From 1186 observations 1998 Sept. 17–2017 Sept. 24, mean residual 0″.7.
Nongravitational parameters $A_1 = +1.88$, $A_2 = -0.2974$.

189P/NEAT
Epoch 2017 July 26.0 TT = JDT 2457960.5
T 2017 Aug. 5.93512 TT MPCW

q	1.2133647		(2000.0)	**P**	**Q**
n	0.19484613	ω	16.21424	+0.45235718	+0.82615701
a	2.9467380	Ω	281.75204	−0.85161845	+0.28831184
e	0.5882346	i	20.06617	−0.26479992	+0.48408767
P	5.06				

From 1371 observations 2002 July 30–2017 Aug. 23, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.04$, $A_2 = -0.0050$.

226P/Pigott-LINEAR-Kowalski
Epoch 2016 Sept. 9.0 TT = JDT 2457640.5
T 2016 Sept. 5.14266 TT MPCW

q	1.7763582		(2000.0)	**P**	**Q**
n	0.13461235	ω	341.12532	+0.74436223	−0.36055832
a	3.7706201	Ω	54.00630	+0.66632879	+0.34565332
e	0.5288949	i	44.00341	+0.04394099	+0.86632643
P	7.32				

From 1129 observations 2003 Jan. 5–2017 Mar. 16, mean residual 0″.7.
Nongravitational parameters $A_1 = -0.03$, $A_2 = +0.0304$.

229P/Gibbs
Epoch 2017 May 7.0 TT = JDT 2457880.5
T 2017 May 20.73884 TT MPCW

q	2.4558772		(2000.0)	**P**	**Q**
n	0.12620719	ω	224.14226	+0.90020357	−0.40289245
a	3.9362257	Ω	157.90919	+0.40596645	+0.91374325
e	0.3760832	i	26.06788	−0.15755883	+0.05244950
P	7.81				

From 148 observations 2001 Aug. 23–2017 Sept. 25, mean residual 0″.8.
Nongravitational parameters $A_1 = +1.38$, $A_2 = +0.0113$.

236P/LINEAR
Epoch 2017 Nov. 23.0 TT = JDT 2458080.5
T 2017 Nov. 20.15272 TT MPCW

q	1.8374919		(2000.0)	**P**	**Q**
n	0.13662437	ω	119.26662	+0.96420926	−0.06809226
a	3.7335095	Ω	245.67094	−0.00531040	+0.96130750
e	0.5078379	i	16.33327	+0.26508922	+0.26692945
P	7.21				

From 622 observations 2003 Sept. 27–2017 Sept. 27, mean residual 0″.5.

237P/LINEAR
Epoch 2016 Oct. 19.0 TT = JDT 2457680.5
T 2016 Oct. 11.67387 TT MPCW

q	1.9848431		(2000.0)	**P**	**Q**
n	0.14990670	ω	25.04118	−0.00319113	+0.97540925
a	3.5095817	Ω	245.43330	−0.95343647	−0.06942947
e	0.4344502	i	14.02310	−0.30157704	+0.20918016
P	6.57				

From 435 observations 2002 May 17–2017 Sept. 30, mean residual 0″.6.

240P/NEAT
Epoch 2018 May 2.0 TT = JDT 2458240.5
T 2018 May 15.87935 TT MPCW

q	2.1337773		(2000.0)	**P**	**Q**
n	0.12934587	ω	352.09913	+0.37930871	−0.84132790
a	3.8722883	Ω	74.92640	+0.86923371	+0.18137316
e	0.4489622	i	23.50377	+0.31710829	+0.50918674
P	7.62				

From 1780 observations 2002 Oct. 5–2017 Sept. 28, mean residual 0″.7.
Nongravitational parameters $A_1 = +1.90$, $A_2 = +0.1236$.

259P/Garradd
Epoch 2017 July 26.0 TT = JDT 2457960.5
T 2017 Aug. 4.03111 TT MPCW

q	1.8089590		(2000.0)	**P**	**Q**
n	0.21833881	ω	257.50411	+0.59997394	+0.77080585
a	2.7313797	Ω	51.48419	−0.58549684	+0.60553176
e	0.3377124	i	15.88957	−0.54518320	+0.19796371
P	4.51				

From 65 observations 2008 Sept. 2–2017 Sept. 21, mean residual 0″.6.

352P/Skiff
Epoch 2017 June 16.0 TT = JDT 2457920.5
T 2017 June 21.60211 TT MPCW

q	2.5359604		(2000.0)	**P**	**Q**
n	0.05779088	ω	309.08259	+0.89776327	+0.40666584
a	6.6256708	Ω	28.15731	−0.20243563	+0.72217249
e	0.6172523	i	21.01739	−0.39120445	+0.55954427
P	17.05				

From 342 observations 2000 Aug. 26–2017 Sept. 30, mean residual 0″.7.

353P/McNaught
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2017 Dec. 20.94547 TT MPCW

				P	Q
q	2.2140079		(2000.0)		
n	0.11570768	ω	230.39324	+0.91111436	+0.07431477
a	4.1708821	Ω	121.57364	−0.02697337	+0.99225284
e	0.4691751	i	28.41391	−0.41127007	+0.09955707
P	8.52				

From 106 observations 2008 May 30–2017 Aug. 15, mean residual 0″.5.

355P/LINEAR-NEAT
Epoch 2017 Oct. 14.0 TT = JDT 2458040.5
T 2017 Oct. 12.68689 TT MPCW

				P	Q
q	1.7159578		(2000.0)		
n	0.15204331	ω	336.34287	+0.87876209	−0.45318046
a	3.4766249	Ω	51.45938	+0.46271755	+0.73216820
e	0.5064300	i	11.03264	+0.11691734	+0.50848519
P	6.48				

From 511 observations 2004 July 16–2017 Sept. 30, mean residual 0″.6.

356P/WISE
Epoch 2018 Jan. 2.0 TT = JDT 2458120.5
T 2017 Dec. 17.12161 TT MPCW

				P	Q
q	2.6896947		(2000.0)		
n	0.11597512	ω	226.17397	+0.88780219	−0.45692852
a	4.1644677	Ω	160.80872	+0.45547694	+0.85522997
e	0.3541324	i	9.62943	+0.06593954	+0.24453634
P	8.50				

From 74 observations 2009 Nov. 9–2017 Sept. 29, mean residual 0″.5.

357P/Hill
Epoch 2018 June 11.0 TT = JDT 2458280.5
T 2018 May 28.96180 TT MPCW

				P	Q
q	2.5265113		(2000.0)		
n	0.10442535	ω	1.52588	+0.69307544	−0.71672273
a	4.4661375	Ω	44.60907	+0.66021139	+0.58813219
e	0.4342961	i	6.30868	+0.28942591	+0.37471196
P	9.44				

From 253 observations 2008 Sept. 28–2017 Aug. 18, mean residual 0″.5.

358P/PANSTARRS
Epoch 2018 Mar. 23.0 TT = JDT 2458200.5
T 2018 Apr. 11.62400 TT MPCW

				P	Q
q	2.4019775		(2000.0)		
n	0.17625636	ω	299.89664	+0.88564753	−0.42314902
a	3.1504519	Ω	85.72173	+0.46393022	+0.78863198
e	0.2375768	i	11.05645	+0.01992982	+0.44609922
P	5.59				

From 176 observations 2001 Dec. 9–2017 Aug. 17, mean residual 0″.4.

359P/LONEOS
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Aug. 20.52313 TT MPCW

				P	Q
q	3.1398006		(2000.0)		
n	0.09869506	ω	200.12076	+0.98179796	+0.16745662
a	4.6373773	Ω	149.79984	−0.14055681	+0.95795175
e	0.3229361	i	10.26233	−0.12773626	+0.23299513
P	9.99				

From 78 observations 2007 Aug. 21–2017 Sept. 23, mean residual 0″.6.

360P/WISE
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5
T 2017 Aug. 18.42993 TT MPCW

				P	Q
q	1.8607518		(2000.0)		
n	0.13816263	ω	354.15622	+0.99767069	+0.06633437
a	3.7057461	Ω	2.23405	−0.03311839	+0.67485434
e	0.4978739	i	24.07891	−0.05963529	+0.73496352
P	7.13				

From 74 observations 2010 Aug. 6–2017 Oct. 1, mean residual 0″.5.

361P/Spacewatch
Epoch 2018 July 21.0 TT = JDT 2458320.5
T 2018 July 2.50059 TT MPCW

				P	Q
q	2.7804231		(2000.0)		
n	0.08960822	ω	219.20869	+0.46926793	−0.87795083
a	4.9458106	Ω	203.27695	+0.85847953	+0.47872553
e	0.4378226	i	13.88253	+0.20688283	+0.00492115
P	11.00				

From 65 observations 2006 Oct. 11–2017 Sept. 30, mean residual 0″.4.

S/2003 J 3
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5 MPC

				P	Q
M	168.64855		(2000.0)		
n	0.57319227	ω	108.95292	−0.86505994	−0.09881838
a	0.1413314	Ω	291.98877	−0.19867009	+0.96773310
e	0.2531738	i	147.96588	+0.46065334	+0.23179209
P	628.06 d	H	16.6	G 0.15	

From 26 observations 2003 Feb. 5–2017 June 18, mean residual 0″.25.

Jupiter VI (Himalia)
Epoch 2017 Sept. 4.0 TT = JDT 2458000.5 MPC

				P	Q
M	319.63803		(2000.0)		
n	1.43630541	ω	14.22544	+0.53131895	−0.76843354
a	0.0766081	Ω	45.26249	+0.71989666	+0.18759386
e	0.1481306	i	30.13942	+0.44659710	+0.61181569
P	250.64 d	H	7.9	G 0.15	

From 1871 observations 1899 June 28–2017 Aug. 4, mean residual 0″.44.

Jupiter VII (Elara)

Epoch 2017 Sept. 4.0 TT = JDT 2458000.5				MPC	
M	259.23524		(2000.0)	**P**	**Q**
n	1.39156869	ω	189.80901	+0.18674977	+0.84957365
a	0.0782413	Ω	92.25131	−0.86457640	+0.38057617
e	0.1722959	i	29.58310	−0.46651064	−0.36522101
P	258.70 d	H	9.6	G 0.15	

From 1427 observations 1905 Jan. 4–2017 July 21, mean residual 0″.42.

Jupiter VIII (Pasiphae)

Epoch 2017 Sept. 4.0 TT = JDT 2458000.5				MPC	
M	142.49717		(2000.0)	**P**	**Q**
n	0.50256458	ω	247.04592	−0.63600403	+0.75798145
a	0.1542805	Ω	18.91509	+0.76267138	+0.64600592
e	0.5950207	i	153.47163	−0.11760625	+0.09022458
P	716.33 d	H	10.1	G 0.15	

From 2325 observations 1908 Jan. 28–2017 Aug. 13, mean residual 0″.46.

Jupiter XI (Carme)

Epoch 2017 Sept. 4.0 TT = JDT 2458000.5				MPC	
M	175.58543		(2000.0)	**P**	**Q**
n	0.52237634	ω	94.35567	−0.13953572	+0.98881177
a	0.1503546	Ω	192.74580	+0.78699221	+0.14306337
e	0.3387721	i	166.17081	+0.60097675	+0.04223924
P	689.16 d	H	10.6	G 0.15	

From 1442 observations 1938 July 30–2017 July 25, mean residual 0″.48.

Saturn IX (Phoebe)

Epoch 2017 Sept. 4.0 TT = JDT 2458000.5				MPC	
M	308.65730		(2000.0)	**P**	**Q**
n	0.65722506	ω	11.79484	−0.23197323	−0.96530136
a	0.0863093	Ω	268.29462	−0.90192663	+0.16727588
e	0.1518038	i	173.10923	−0.36430314	+0.20052944
P	547.76 d	H	6.6	G 0.15	

From 2095 observations 1898 Aug. 19–2017 Aug. 10, mean residual 0″.42.

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.*

(496816)	1989 UP	1989 10 27	691	Rabinowitz, D. L., Scotti, J. V.
(496817)	1989 VB	1989 11 01	413	Parker, Q. A.
(496818)	1993 RA	1993 09 09	691	Spacewatch
(496819)	1994 XE	1994 12 02	691	Spacewatch
(496820)	1995 FM_{15}	1995 03 27	691	Spacewatch
(496821)	1995 OA_{3}	1995 07 22	691	Spacewatch
(496822)	1995 OW_{11}	1995 07 27	691	Spacewatch
(496823)	1995 QZ_{14}	1995 08 28	691	Spacewatch
(496824)	1995 SL_{22}	1995 09 19	691	Spacewatch
(496825)	1995 SY_{25}	1995 09 19	691	Spacewatch
(496826)	1995 SR_{65}	1995 09 26	691	Spacewatch
(496827)	1995 SE_{72}	1995 09 19	691	Spacewatch
(496828)	1995 SO_{78}	1995 09 19	691	Spacewatch
(496829)	1995 TD_{5}	1995 10 15	691	Spacewatch
(496830)	1995 UM_{81}	1995 10 28	691	Spacewatch
(496831)	1995 VT_{6}	1995 11 14	691	Spacewatch
(496832)	1995 WP_{21}	1995 11 17	691	Spacewatch
(496833)	1996 AM_{6}	1996 01 12	691	Spacewatch
(496834)	1996 TQ_{6}	1996 10 09	691	Spacewatch
(496835)	1997 GR_{1}	1997 04 05	568	Veillet, C.
(496836)	1998 OL_{2}	1998 07 25	684	Comba, P. G.
(496837)	1998 SB_{15}	1998 09 21	704	LINEAR
(496838)	1998 SS_{40}	1998 09 24	691	Spacewatch
(496839)	1998 WR_{30}	1998 11 26	691	Spacewatch
(496840)	1998 YX_{31}	1998 12 25	691	Spacewatch
(496841)	1999 CV_{7}	1999 02 10	704	LINEAR
(496842)	1999 RB_{30}	1999 09 08	704	LINEAR
(496843)	1999 RH_{243}	1999 09 04	691	Spacewatch
(496844)	1999 TH_{66}	1999 10 08	691	Spacewatch
(496845)	1999 TF_{71}	1999 10 09	691	Spacewatch
(496846)	1999 TD_{84}	1999 10 04	691	Spacewatch
(496847)	1999 TS_{209}	1999 10 14	704	LINEAR
(496848)	1999 TM_{294}	1999 10 01	691	Spacewatch
(496849)	1999 TN_{319}	1999 10 09	691	Spacewatch
(496850)	1999 UK_{12}	1999 10 31	691	Spacewatch
(496851)	1999 UX_{31}	1999 10 20	691	Spacewatch
(496852)	1999 VD_{41}	1999 11 01	691	Spacewatch
(496853)	1999 VL_{42}	1999 11 04	691	Spacewatch
(496854)	1999 VY_{84}	1999 11 06	691	Spacewatch
(496855)	1999 VD_{116}	1999 11 04	691	Spacewatch
(496856)	1999 VQ_{131}	1999 10 30	691	Spacewatch
(496857)	1999 VD_{147}	1999 11 12	704	LINEAR
(496858)	1999 VU_{209}	1999 11 12	704	LINEAR
(496859)	1999 WB_{18}	1999 11 09	691	LINEAR
(496860)	1999 XL_{136}	1999 12 12	704	LINEAR
(496861)	2000 BE_{19}	2000 01 27	704	LINEAR
(496862)	2000 BK_{42}	2000 01 27	691	Spacewatch
(496863)	2000 CL_{59}	2000 02 04	704	LINEAR
(496864)	2000 CW_{108}	2000 02 05	695	Buie, M. W.
(496865)	2000 DP_{66}	2000 02 29	704	LINEAR
(496866)	2000 JO_{5}	2000 05 05	684	Comba, P. G.
(496867)	2000 LM_{22}	2000 05 29	691	Spacewatch
(496868)	2000 OA_{51}	2000 07 31	691	Spacewatch
(496869)	2000 QU_{7}	2000 08 24	704	LINEAR
(496870)	2000 QE_{227}	2000 08 31	704	LINEAR
(496871)	2000 RZ_{12}	2000 09 01	704	LINEAR
(496872)	2000 SH_{5}	2000 09 22	704	LINEAR
(496873)	2000 SJ_{9}	2000 09 23	704	LINEAR
(496874)	2000 SN_{21}	2000 09 05	704	LINEAR
(496875)	2000 SW_{26}	2000 09 23	704	LINEAR
(496876)	2000 SV_{43}	2000 09 06	704	LINEAR

(496877)	2000 SD_{77}	2000 09 24	704	LINEAR
(496878)	2000 SS_{113}	2000 09 24	704	LINEAR
(496879)	2000 SN_{214}	2000 09 26	704	LINEAR
(496880)	2000 SH_{233}	2000 09 04	704	LONEOS
(496881)	2000 SP_{242}	2000 08 10	704	LINEAR
(496882)	2000 SH_{362}	2000 09 24	699	LONEOS
(496883)	2000 SF_{369}	2000 09 22	699	LONEOS
(496884)	2000 TW_{32}	2000 10 02	704	LINEAR
(496885)	2000 TA_{45}	2000 09 23	704	LONEOS
(496886)	2000 UN_{15}	2000 10 27	691	Spacewatch
(496887)	2000 UT_{32}	2000 10 29	691	Spacewatch
(496888)	2000 UF_{44}	2000 10 24	704	LINEAR
(496889)	2000 UE_{67}	2000 10 25	704	LINEAR
(496890)	2000 VR_{23}	2000 09 30	704	LINEAR
(496891)	2000 WK_{159}	2000 11 19	704	LINEAR
(496892)	2000 XZ_{10}	2000 11 30	691	Spacewatch
(496893)	2000 XG_{24}	2000 11 19	704	LINEAR
(496894)	2000 YF_{31}	2000 12 30	691	Spacewatch
(496895)	2001 AF_{47}	2001 01 15	704	LINEAR
(496896)	2001 AT_{47}	2001 01 04	704	LINEAR
(496897)	2001 BZ_{15}	2001 01 19	699	LONEOS
(496898)	2001 CM_{47}	2001 02 13	691	Spacewatch
(496899)	2001 FH_{91}	2001 03 27	608	NEAT
(496900)	2001 FH_{220}	2001 03 21	695	SKADS
(496901)	2001 HB	2001 04 16	699	LONEOS
(496902)	2001 QB_{143}	2001 08 19	704	LINEAR
(496903)	2001 QJ_{144}	2001 08 21	691	Spacewatch
(496904)	2001 QU_{151}	2001 08 25	704	LINEAR
(496905)	2001 QO_{204}	2001 08 23	699	LONEOS
(496906)	2001 QT_{210}	2001 08 23	699	LONEOS
(496907)	2001 QQ_{229}	2001 08 24	699	LONEOS
(496908)	2001 QC_{237}	2001 08 24	704	LINEAR
(496909)	2001 RK_{139}	2001 09 12	704	LINEAR
(496910)	2001 SK_{168}	2001 09 19	704	LINEAR
(496911)	2001 ST_{188}	2001 09 16	704	Spacewatch
(496912)	2001 SF_{209}	2001 09 19	704	LINEAR
(496913)	2001 SH_{222}	2001 09 19	704	LINEAR
(496914)	2001 SV_{229}	2001 09 11	704	LONEOS
(496915)	2001 SA_{269}	2001 09 19	691	Spacewatch
(496916)	2001 SX_{288}	2001 09 30	644	NEAT
(496917)	2001 SD_{336}	2001 08 23	704	Spacewatch
(496918)	2001 TV_{2}	2001 10 06	644	NEAT
(496919)	2001 TM_{103}	2001 10 14	704	LINEAR
(496920)	2001 TJ_{160}	2001 10 15	291	Spacewatch
(496921)	2001 TP_{207}	2001 10 11	644	NEAT
(496922)	2001 TS_{260}	2001 10 14	645	Sloan Digital Sky Survey
(496923)	2001 UW_{57}	2001 10 17	704	LINEAR
(496924)	2001 UR_{64}	2001 09 25	704	LINEAR
(496925)	2001 UE_{86}	2001 10 16	691	Spacewatch
(496926)	2001 UP_{112}	2001 10 21	704	LINEAR
(496927)	2001 UY_{156}	2001 10 23	704	LINEAR
(496928)	2001 UG_{177}	2001 10 21	704	LINEAR
(496929)	2001 UM_{186}	2001 10 17	704	LINEAR
(496930)	2001 UF_{203}	2001 10 19	644	NEAT
(496931)	2001 UV_{226}	2001 10 16	644	NEAT
(496932)	2001 UO_{229}	2001 10 17	644	NEAT
(496933)	2001 VY_{2}	2001 09 10	691	LONEOS
(496934)	2001 VA_{6}	2001 10 15	704	Spacewatch
(496935)	2001 VO_{55}	2001 10 19	704	Spacewatch
(496936)	2001 VO_{74}	2001 11 14	291	Spacewatch
(496937)	2001 VH_{110}	2001 11 12	704	LINEAR
(496938)	2001 WF_{30}	2001 10 23	704	LINEAR
(496939)	2001 WO_{33}	2001 11 17	704	LINEAR
(496940)	2001 WZ_{33}	2001 11 17	704	LINEAR
(496941)	2001 WC_{66}	2001 11 20	704	LINEAR
(496942)	2001 WJ_{71}	2001 11 09	704	LINEAR
(496943)	2001 WY_{75}	2001 11 20	704	LINEAR
(496944)	2001 WX_{80}	2001 11 20	704	LINEAR
(496945)	2001 XO_{9}	2001 12 09	704	LINEAR
(496946)	2001 XV_{14}	2001 12 09	704	LINEAR
(496947)	2001 XQ_{52}	2001 12 10	704	LINEAR
(496948)	2001 XP_{122}	2001 12 14	704	LINEAR
(496949)	2001 XM_{244}	2001 12 15	704	LINEAR
(496950)	2001 YR_{24}	2001 12 18	704	LINEAR
(496951)	2001 YD_{132}	2001 12 09	704	LINEAR
(496952)	2002 AQ_{5}	2002 01 09	046	LINEAR
(496953)	2002 AU_{12}	2002 01 10	599	CINEOS
(496954)	2002 AM_{80}	2002 01 08	704	LINEAR
(496955)	2002 AQ_{108}	2002 01 09	704	LINEAR
(496956)	2002 AP_{190}	2002 01 11	291	Spacewatch
(496957)	2002 CX_{35}	2002 01 13	704	LINEAR
(496958)	2002 CU_{127}	2002 02 07	704	LINEAR
(496959)	2002 CP_{246}	2002 01 14	691	Spacewatch
(496960)	2002 EX_{57}	2002 02 11	704	LINEAR
(496961)	2002 GQ_{86}	2002 04 10	704	LINEAR
(496962)	2002 GP_{186}	2002 04 08	644	NEAT
(496963)	2002 NL_{60}	2002 07 14	644	NEAT
(496964)	2002 OM_{30}	2002 07 22	644	NEAT
(496965)	2002 PQ_{40}	2002 08 10	704	LINEAR
(496966)	2002 PG_{83}	2002 08 10	704	LINEAR
(496967)	2002 PL_{155}	2002 08 08	644	Hoenig, S. F.
(496968)	2002 PQ_{167}	2002 08 08	644	NEAT
(496969)	2002 PR_{172}	2002 08 15	644	NEAT
(496970)	2002 QV_{5}	2002 08 17	644	NEAT
(496971)	2002 QO_{32}	2002 08 29	644	NEAT
(496972)	2002 QU_{32}	2002 08 29	644	NEAT
(496973)	2002 QD_{70}	2002 08 18	644	NEAT
(496974)	2002 QD_{81}	2002 08 17	644	NEAT
(496975)	2002 QW_{82}	2002 08 16	644	NEAT
(496976)	2002 QH_{100}	2002 08 29	644	NEAT
(496977)	2002 QT_{107}	2002 08 27	644	NEAT
(496978)	2002 QN_{112}	2002 08 17	644	NEAT
(496979)	2002 QD_{132}	2002 08 16	644	NEAT
(496980)	2002 QQ_{138}	2002 08 17	644	NEAT

(496981)	2002 RP_{28}	2002 09 05	704	LINEAR
(496982)	2002 RT_{70}	2002 09 04	644	NEAT
(496983)	2002 RS_{79}	2002 09 05	704	LINEAR
(496984)	2002 RX_{131}	2002 09 11	644	NEAT
(496985)	2002 RJ_{146}	2002 09 11	644	NEAT
(496986)	2002 RL_{170}	2002 09 13	644	NEAT
(496987)	2002 RR_{174}	2002 09 13	644	NEAT
(496988)	2002 RB_{209}	2002 09 14	644	NEAT
(496989)	2002 RC_{211}	2002 09 13	644	NEAT
(496990)	2002 RR_{240}	2002 09 14	644	Matson, R.
(496991)	2002 RD_{253}	2002 09 14	644	NEAT
(496992)	2002 RQ_{265}	2002 09 05	608	NEAT
(496993)	2002 RL_{281}	2002 09 12	644	NEAT
(496994)	2002 TS_{190}	2002 10 13	644	NEAT
(496995)	2002 TF_{243}	2002 10 09	291	Spacewatch
(496996)	2002 TF_{325}	2002 10 05	645	Sloan Digital Sky Survey
(496997)	2002 TV_{330}	2002 10 05	645	Sloan Digital Sky Survey
(496998)	2002 TF_{378}	2002 10 04	644	NEAT
(496999)	2002 TU_{379}	2002 10 06	644	NEAT
(497000)	2002 UL_{9}	2002 10 29	704	LINEAR
(497001)	2002 UC_{43}	2002 10 30	291	Spacewatch
(497002)	2002 UH_{64}	2002 10 30	645	Sloan Digital Sky Survey
(497003)	2002 UG_{78}	2002 10 29	644	NEAT
(497004)	2002 VN_{14}	2002 11 06	704	LINEAR
(497005)	2002 XN_{99}	2002 11 06	704	LINEAR
(497006)	2002 YE_{12}	2002 12 31	704	LINEAR
(497007)	2003 AO_{22}	2003 01 05	704	LINEAR
(497008)	2003 BG_{3}	2003 01 24	809	Boattini, A., Scholl, H.
(497009)	2003 BU_{35}	2003 01 29	704	LINEAR
(497010)	2003 BJ_{36}	2003 01 26	291	Spacewatch
(497011)	2003 BA_{82}	2003 01 27	673	Young, J. W.
(497012)	2003 BE_{83}	2003 01 31	704	LINEAR
(497013)	2003 DT_{10}	2003 02 26	599	CINEOS
(497014)	2003 ED_{19}	2003 03 06	699	LONEOS
(497015)	2003 FX_{65}	2003 03 26	691	Spacewatch
(497016)	2003 FC_{74}	2003 03 26	608	NEAT
(497017)	2003 FS_{103}	2003 03 24	691	Spacewatch
(497018)	2003 GJ_{51}	2003 04 06	621	Bickel, W.
(497019)	2003 GN_{51}	2003 04 09	644	NEAT
(497020)	2003 HY	2003 03 24	246	Spacewatch
(497021)	2003 HB_{29}	2003 04 28	691	LINEAR
(497022)	2003 KB_{36}	2003 05 29	691	Spacewatch
(497023)	2003 LX_{7}	2003 06 01	807	Buie, M. W.
(497024)	2003 QS_{1}	2003 08 19	599	CINEOS
(497025)	2003 QW_{30}	2003 08 24	704	LINEAR
(497026)	2003 QP_{49}	2003 08 22	644	NEAT
(497027)	2003 QE_{73}	2003 08 25	704	LINEAR
(497028)	2003 QG_{93}	2003 08 27	644	NEAT
(497029)	2003 QL_{95}	2003 08 30	291	Spacewatch
(497030)	2003 QV_{117}	2003 08 26	807	Buie, M. W.
(497031)	2003 RC_{4}	2003 09 01	704	LINEAR
(497032)	2003 SG	2003 09 17	699	LONEOS
(497033)	2003 SF_{1}	2003 09 16	691	Spacewatch
(497034)	2003 SX_{8}	2003 09 17	291	Spacewatch
(497035)	2003 SA_{29}	2003 09 18	644	NEAT
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(497037)	2003 SO_{60}	2003 09 17	691	Spacewatch
(497038)	2003 SC_{121}	2003 09 17	704	LINEAR
(497039)	2003 SP_{161}	2003 09 18	691	Spacewatch
(497040)	2003 SF_{164}	2003 09 20	699	LONEOS
(497041)	2003 SQ_{166}	2003 09 21	704	LINEAR
(497042)	2003 SO_{197}	2003 09 21	699	LONEOS
(497043)	2003 SA_{216}	2003 09 20	608	LINEAR
(497044)	2003 SR_{278}	2003 09 30	704	LINEAR
(497045)	2003 SQ_{281}	2003 09 19	691	Spacewatch
(497046)	2003 SC_{287}	2003 09 29	691	Spacewatch
(497047)	2003 SD_{287}	2003 09 29	691	Spacewatch
(497048)	2003 SG_{298}	2003 09 18	608	NEAT
(497049)	2003 SW_{324}	2003 09 17	691	Spacewatch
(497050)	2003 SV_{327}	2003 09 19	691	Spacewatch
(497051)	2003 SW_{327}	2003 09 19	699	LONEOS
(497052)	2003 SO_{342}	2003 09 17	691	Spacewatch
(497053)	2003 SA_{345}	2003 09 18	691	Spacewatch
(497054)	2003 SK_{353}	2003 09 20	699	LONEOS
(497055)	2003 SJ_{371}	2003 09 26	645	Sloan Digital Sky Survey
(497056)	2003 SY_{371}	2003 09 26	645	Sloan Digital Sky Survey
(497057)	2003 SY_{411}	2003 09 28	645	Sloan Digital Sky Survey
(497058)	2003 SZ_{428}	2003 09 19	291	Spacewatch
(497059)	2003 SA_{430}	2003 09 29	699	LONEOS
(497060)	2003 TX_{58}	2003 10 01	691	Spacewatch
(497061)	2003 UF_{25}	2003 10 17	446	LONEOS
(497062)	2003 UO_{32}	2003 10 16	691	Spacewatch
(497063)	2003 UD_{40}	2003 10 16	291	Spacewatch
(497064)	2003 UK_{48}	2003 10 16	699	LONEOS
(497065)	2003 UU_{69}	2003 10 18	291	Spacewatch
(497066)	2003 UL_{102}	2003 10 15	704	LONEOS
(497067)	2003 UC_{144}	2003 10 18	699	LONEOS
(497068)	2003 UP_{165}	2003 10 21	691	Spacewatch
(497069)	2003 UC_{174}	2003 10 21	691	Spacewatch
(497070)	2003 UP_{232}	2003 10 24	704	LINEAR
(497071)	2003 UL_{254}	2003 10 19	291	Spacewatch
(497072)	2003 UA_{352}	2003 10 19	645	Sloan Digital Sky Survey
(497073)	2003 UO_{358}	2003 10 19	691	Spacewatch
(497074)	2003 UB_{392}	2003 10 22	645	Sloan Digital Sky Survey
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(497076)	2003 VP_{2}	2003 11 14	644	NEAT
(497077)	2003 WJ_{2}	2003 11 16	691	Spacewatch
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(497079)	2003 WR_{15}	2003 11 16	691	Spacewatch
(497080)	2003 WD_{25}	2003 11 16	691	Spacewatch
(497081)	2003 WQ_{42}	2003 11 23	703	CSS
(497082)	2003 WS_{59}	2003 11 18	691	Spacewatch
(497083)	2003 WW_{59}	2003 10 24	291	LINEAR
(497084)	2003 WC_{83}	2003 11 20	644	NEAT

(497085)	2003 WS_{91}	2003 11 18	691	Spacewatch
(497086)	2003 WM_{160}	2003 11 19	291	Spacewatch
(497087)	2003 WG_{165}	2003 11 30	691	Spacewatch
(497088)	2003 XB_{24}	2003 12 01	291	Spacewatch
(497089)	2003 XT_{27}	2003 11 21	691	Spacewatch
(497090)	2003 XB_{30}	2003 12 01	691	Spacewatch
(497091)	2003 YO_{6}	2003 12 17	699	LONEOS
(497092)	2003 YA_{15}	2003 11 20	704	LINEAR
(497093)	2003 YP_{146}	2003 12 19	704	LINEAR
(497094)	2004 AH	2004 01 10	699	LONEOS
(497095)	2004 AB_{7}	2003 12 19	691	Spacewatch
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(497097)	2004 BW_{7}	2004 01 17	691	Spacewatch
(497098)	2004 BS_{65}	2003 12 21	704	Spacewatch
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(497102)	2004 BO_{153}	2003 12 28	691	Spacewatch
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(497104)	2004 CX	2004 01 26	104	LONEOS
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(497106)	2004 CC_{9}	2004 01 28	291	Spacewatch
(497107)	2004 CA_{53}	2004 02 11	691	Spacewatch
(497108)	2004 DP_{54}	2004 02 22	691	Spacewatch
(497109)	2004 DV_{55}	2004 02 12	691	Spacewatch
(497110)	2004 DG_{63}	2004 02 17	691	Spacewatch
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(497112)	2004 EH	2004 03 11	644	NEAT
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(497114)	2004 EF_{51}	2004 03 14	691	Spacewatch
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(497118)	2004 FM_{23}	2004 03 17	691	Spacewatch
(497119)	2004 FL_{119}	2004 03 23	691	Spacewatch
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(497122)	2004 GM_{48}	2004 04 12	691	Spacewatch
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(497124)	2004 LL_{23}	2004 06 15	704	LINEAR
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(497132)	2004 PS_{95}	2004 08 13	428	Broughton, J.
(497133)	2004 PV_{97}	2004 08 14	428	Broughton, J.
(497134)	2004 QZ_{12}	2004 08 21	E12	Siding Spring Survey
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(497138)	2004 RE_{10}	2004 09 07	704	LINEAR
(497139)	2004 RC_{16}	2004 09 07	691	Spacewatch
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(497143)	2004 RG_{39}	2004 09 07	704	LINEAR
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(497145)	2004 RG_{71}	2004 09 08	704	LINEAR
(497146)	2004 RN_{89}	2004 09 08	704	LINEAR
(497147)	2004 RY_{89}	2004 08 27	704	CSS
(497148)	2004 RO_{95}	2004 08 21	704	CSS
(497149)	2004 RW_{111}	2004 09 12	691	Spacewatch
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(497153)	2004 RC_{170}	2004 09 08	644	NEAT
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(497157)	2004 RE_{197}	2004 09 10	704	LINEAR
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(497159)	2004 RF_{198}	2004 09 10	704	LINEAR
(497160)	2004 RT_{208}	2004 09 11	704	LINEAR
(497161)	2004 RW_{225}	2004 09 09	704	LINEAR
(497162)	2004 RB_{298}	2004 09 11	691	Spacewatch
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(497164)	2004 RR_{324}	2004 09 13	704	LINEAR
(497165)	2004 RG_{333}	2004 09 15	699	LONEOS
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(497169)	2004 SO_{19}	2004 09 18	704	LINEAR
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(497172)	2004 TF_{9}	2004 10 05	691	Spacewatch
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(497174)	2004 TK_{10}	2004 10 08	691	Spacewatch
(497175)	2004 TB_{11}	2004 09 15	704	LINEAR
(497176)	2004 TQ_{13}	2004 10 09	704	LINEAR
(497177)	2004 TA_{34}	2004 10 04	691	Spacewatch
(497178)	2004 TY_{35}	2004 10 04	691	Spacewatch
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(497181)	2004 TX_{41}	2004 10 04	691	Spacewatch
(497182)	2004 TS_{55}	2004 10 04	691	Spacewatch
(497183)	2004 TW_{63}	2004 10 05	691	Spacewatch
(497184)	2004 TA_{65}	2004 10 05	291	Spacewatch
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(497186)	2004 TF_{71}	2004 10 06	691	Spacewatch
(497187)	2004 TU_{71}	2004 09 10	691	Spacewatch
(497188)	2004 TA_{93}	2004 09 17	691	LINEAR

(497189)	2004 TJ_{113}	2004 10 07	291	Spacewatch
(497190)	2004 TQ_{135}	2004 10 08	699	LONEOS
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(497192)	2004 TU_{150}	2004 10 06	691	Spacewatch
(497193)	2004 TP_{159}	2004 10 06	691	Spacewatch
(497194)	2004 TS_{161}	2004 10 06	691	Spacewatch
(497195)	2004 TQ_{183}	2004 10 07	691	Spacewatch
(497196)	2004 TJ_{184}	2004 09 10	691	Spacewatch
(497197)	2004 TT_{185}	2004 10 07	691	Spacewatch
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(497199)	2004 TS_{217}	2004 09 24	691	Spacewatch
(497200)	2004 TH_{219}	2004 09 17	691	Spacewatch
(497201)	2004 TA_{259}	2004 10 09	691	Spacewatch
(497202)	2004 TK_{274}	2004 10 09	691	Spacewatch
(497203)	2004 TF_{276}	2004 10 09	691	Spacewatch
(497204)	2004 TN_{278}	2004 10 09	691	Spacewatch
(497205)	2004 TD_{328}	2004 09 21	644	LONEOS
(497206)	2004 UJ_{7}	2004 10 10	704	LINEAR
(497207)	2004 UP_{9}	2004 10 07	699	LONEOS
(497208)	2004 VQ_{26}	2004 11 04	703	CSS
(497209)	2004 VY_{36}	2004 10 10	691	Spacewatch
(497210)	2004 VH_{38}	2004 10 14	691	Spacewatch
(497211)	2004 VG_{68}	2004 10 15	691	Spacewatch
(497212)	2004 VH_{68}	2004 11 10	691	Spacewatch
(497213)	2004 VB_{77}	2004 11 12	703	CSS
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(497215)	2004 VY_{90}	2004 11 03	644	NEAT
(497216)	2004 XF_{24}	2004 11 04	703	Spacewatch
(497217)	2004 XK_{98}	2004 12 11	691	Spacewatch
(497218)	2004 XX_{102}	2004 12 14	703	CSS
(497219)	2004 XG_{131}	2004 11 10	704	Spacewatch
(497220)	2004 XD_{134}	2004 11 03	704	CSS
(497221)	2004 XE_{137}	2004 12 15	704	LINEAR
(497222)	2004 XA_{143}	2004 12 09	691	Spacewatch
(497223)	2004 YV_{18}	2004 12 18	G96	Mt. Lemmon Survey
(497224)	2005 AN_{15}	2005 01 06	704	LINEAR
(497225)	2005 AD_{16}	2005 01 06	704	LINEAR
(497226)	2005 AA_{23}	2004 12 15	704	LINEAR
(497227)	2005 AN_{27}	2005 01 13	704	LINEAR
(497228)	2005 AV_{59}	2005 01 07	691	Spacewatch
(497229)	2005 AU_{65}	2004 12 20	691	Mt. Lemmon Survey
(497230)	2005 CU_{25}	2005 02 04	G96	Mt. Lemmon Survey
(497231)	2005 CY_{30}	2005 02 01	691	Spacewatch
(497232)	2005 EF	2005 03 01	703	CSS
(497233)	2005 EN_{15}	2005 03 03	691	Spacewatch
(497234)	2005 ES_{42}	2005 03 03	691	Spacewatch
(497235)	2005 EO_{43}	2005 02 03	691	LINEAR
(497236)	2005 EJ_{94}	2005 03 09	G96	Mt. Lemmon Survey
(497237)	2005 EN_{98}	2005 03 03	703	CSS
(497238)	2005 EH_{114}	2005 03 04	G96	Mt. Lemmon Survey
(497239)	2005 EY_{165}	2005 03 11	691	Spacewatch
(497240)	2005 EP_{174}	2005 03 08	691	Spacewatch
(497241)	2005 EN_{204}	2005 03 11	G96	Mt. Lemmon Survey
(497242)	2005 EA_{237}	2005 03 11	691	Spacewatch
(497243)	2005 EO_{279}	2005 02 14	703	CSS
(497244)	2005 EW_{327}	2005 03 03	691	Spacewatch
(497245)	2005 FH	2005 03 16	703	CSS
(497246)	2005 GL_{19}	2005 04 02	G96	Mt. Lemmon Survey
(497247)	2005 GA_{25}	2005 04 02	G96	Mt. Lemmon Survey
(497248)	2005 GW_{55}	2005 03 11	G96	Mt. Lemmon Survey
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(497253)	2005 GB_{180}	2005 04 07	699	LONEOS
(497254)	2005 GS_{201}	2005 04 04	G96	Mt. Lemmon Survey
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(497257)	2005 JY	2005 03 12	704	Mt. Lemmon Survey
(497258)	2005 JO_{7}	2005 04 02	568	Mt. Lemmon Survey
(497259)	2005 JM_{16}	2005 03 10	G96	Mt. Lemmon Survey
(497260)	2005 JY_{36}	2005 05 04	691	CSS
(497261)	2005 JC_{58}	2005 05 07	G96	Mt. Lemmon Survey
(497262)	2005 JA_{61}	2005 05 08	691	Spacewatch
(497263)	2005 JS_{97}	2005 05 08	691	Spacewatch
(497264)	2005 JF_{106}	2005 05 03	G96	Spacewatch
(497265)	2005 JK_{120}	2005 05 10	691	Spacewatch
(497266)	2005 JB_{155}	2005 05 04	G96	Mt. Lemmon Survey
(497267)	2005 JX_{172}	2005 05 10	807	Buie, M. W.
(497268)	2005 JW_{174}	2005 05 11	807	Buie, M. W.
(497269)	2005 JW_{185}	2005 05 04	691	Spacewatch
(497270)	2005 MK_{45}	2005 06 27	691	Spacewatch
(497271)	2005 NO_{9}	2005 07 01	691	Spacewatch
(497272)	2005 NR_{29}	2005 07 03	G96	Mt. Lemmon Survey
(497273)	2005 NB_{33}	2005 07 05	691	Spacewatch
(497274)	2005 NS_{52}	2005 07 10	691	Spacewatch
(497275)	2005 NX_{109}	2005 07 07	568	Veillet, C.
(497276)	2005 OU_{17}	2005 07 30	644	NEAT
(497277)	2005 QC_{42}	2005 08 26	699	LONEOS
(497278)	2005 QH_{58}	2005 08 25	644	NEAT
(497279)	2005 QS_{116}	2005 08 28	691	Spacewatch
(497280)	2005 QZ_{125}	2005 08 28	691	Spacewatch
(497281)	2005 QS_{126}	2005 08 28	691	Spacewatch
(497282)	2005 QN_{161}	2005 08 28	E12	Siding Spring Survey
(497283)	2005 QS_{189}	2005 08 29	691	Spacewatch
(497284)	2005 SO	2005 09 22	012	Pauwels, T.
(497285)	2005 SX_{11}	2005 09 23	691	Spacewatch
(497286)	2005 SJ_{21}	2005 09 27	291	Spacewatch
(497287)	2005 SH_{55}	2005 09 25	691	Spacewatch
(497288)	2005 SE_{64}	2005 09 26	691	Spacewatch
(497289)	2005 SW_{76}	2005 09 24	691	Spacewatch
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(497293)	2005 SD_{98}	2005 09 25	691	Spacewatch
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(497295)	2005 SR_{111}	2005 09 26	691	Spacewatch
(497296)	2005 SS_{181}	2005 09 29	691	Spacewatch
(497297)	2005 SP_{230}	2005 09 30	G96	Mt. Lemmon Survey
(497298)	2005 SJ_{231}	2005 09 30	G96	Mt. Lemmon Survey
(497299)	2005 SF_{233}	2005 09 30	G96	Mt. Lemmon Survey
(497300)	2005 SL_{234}	2005 09 29	G96	Mt. Lemmon Survey
(497301)	2005 SO_{239}	2005 09 03	703	CSS
(497302)	2005 SA_{246}	2005 09 30	G96	Mt. Lemmon Survey
(497303)	2005 SD_{269}	2005 09 25	691	Spacewatch
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(497305)	2005 SL_{273}	2005 09 27	691	Spacewatch
(497306)	2005 SW_{288}	2005 09 27	705	Becker, A. C.
(497307)	2005 SP_{291}	2005 09 25	691	Spacewatch
(497308)	2005 TL_{4}	2005 10 01	G96	Mt. Lemmon Survey
(497309)	2005 TW_{42}	2005 10 04	G96	Mt. Lemmon Survey
(497310)	2005 TO_{58}	2005 10 01	G96	Mt. Lemmon Survey
(497311)	2005 TN_{62}	2005 10 04	G96	Mt. Lemmon Survey
(497312)	2005 TB_{66}	2005 10 03	691	Spacewatch
(497313)	2005 TY_{87}	2005 09 29	691	Mt. Lemmon Survey
(497314)	2005 TH_{97}	2005 10 06	G96	Mt. Lemmon Survey
(497315)	2005 TO_{99}	2005 10 07	691	Spacewatch
(497316)	2005 TK_{102}	2005 10 07	G96	Mt. Lemmon Survey
(497317)	2005 TO_{103}	2005 09 23	704	Spacewatch
(497318)	2005 TA_{115}	2005 09 27	691	Spacewatch
(497319)	2005 TY_{115}	2005 10 07	691	Spacewatch
(497320)	2005 TX_{116}	2005 10 07	691	Spacewatch
(497321)	2005 TA_{120}	2005 10 07	691	Spacewatch
(497322)	2005 TK_{123}	2005 10 07	691	Spacewatch
(497323)	2005 TU_{125}	2005 10 07	691	Spacewatch
(497324)	2005 TH_{130}	2005 10 07	691	Spacewatch
(497325)	2005 TU_{145}	2005 10 08	691	Spacewatch
(497326)	2005 TD_{149}	2005 09 29	691	Spacewatch
(497327)	2005 TW_{156}	2005 10 09	691	Spacewatch
(497328)	2005 TR_{157}	2005 09 29	691	Spacewatch
(497329)	2005 TZ_{164}	2005 10 02	691	Mt. Lemmon Survey
(497330)	2005 TW_{168}	2005 10 09	691	Spacewatch
(497331)	2005 TE_{182}	2005 10 03	644	NEAT
(497332)	2005 TV_{196}	2005 10 01	691	Spacewatch
(497333)	2005 UW_{1}	2005 10 22	701	Healy, D.
(497334)	2005 UK_{11}	2005 10 22	691	Spacewatch
(497335)	2005 UP_{11}	2005 10 22	691	Spacewatch
(497336)	2005 UT_{15}	2005 10 22	691	Spacewatch
(497337)	2005 UT_{23}	2005 10 23	691	Spacewatch
(497338)	2005 UN_{48}	2005 10 22	291	Spacewatch
(497339)	2005 UN_{70}	2005 10 23	703	CSS
(497340)	2005 UH_{80}	2005 10 25	691	Spacewatch
(497341)	2005 UF_{85}	2005 10 22	691	Spacewatch
(497342)	2005 UH_{97}	2005 10 22	691	Spacewatch
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(497344)	2005 UY_{104}	2005 10 22	691	Spacewatch
(497345)	2005 UL_{121}	2005 10 24	691	Spacewatch
(497346)	2005 UD_{124}	2005 10 24	691	Spacewatch
(497347)	2005 UX_{133}	2005 10 25	691	Spacewatch
(497348)	2005 UV_{166}	2005 10 01	691	Mt. Lemmon Survey
(497349)	2005 UD_{169}	2005 10 24	691	Spacewatch
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(497351)	2005 UA_{178}	2005 10 24	691	Spacewatch
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(497353)	2005 UH_{183}	2005 10 25	691	Spacewatch
(497354)	2005 UX_{185}	2005 10 25	G96	Mt. Lemmon Survey
(497355)	2005 UJ_{187}	2005 10 26	691	Spacewatch
(497356)	2005 UB_{192}	2005 10 27	G96	Mt. Lemmon Survey
(497357)	2005 UW_{199}	2005 10 25	691	Spacewatch
(497358)	2005 UV_{221}	2005 10 25	691	Spacewatch
(497359)	2005 UJ_{223}	2005 10 25	691	Spacewatch
(497360)	2005 UF_{225}	2005 10 25	691	Spacewatch
(497361)	2005 UZ_{235}	2005 10 25	691	Spacewatch
(497362)	2005 UU_{248}	2005 10 28	G96	Mt. Lemmon Survey
(497363)	2005 UW_{256}	2005 10 25	691	Spacewatch
(497364)	2005 UH_{260}	2005 10 25	691	Spacewatch
(497365)	2005 UY_{260}	2005 10 25	G96	Mt. Lemmon Survey
(497366)	2005 UV_{276}	2005 10 24	691	Spacewatch
(497367)	2005 UN_{281}	2005 10 25	G96	Mt. Lemmon Survey
(497368)	2005 UM_{286}	2005 10 26	691	Spacewatch
(497369)	2005 UU_{307}	2005 10 27	G96	Mt. Lemmon Survey
(497370)	2005 UL_{319}	2005 10 27	691	Spacewatch
(497371)	2005 UV_{319}	2005 10 27	691	Spacewatch
(497372)	2005 UM_{332}	2005 10 29	691	Spacewatch
(497373)	2005 UL_{334}	2005 10 29	G96	Mt. Lemmon Survey
(497374)	2005 UW_{337}	2005 09 30	691	Mt. Lemmon Survey
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(497376)	2005 UJ_{371}	2005 10 27	G96	Mt. Lemmon Survey
(497377)	2005 UT_{414}	2005 10 25	691	Spacewatch
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(497379)	2005 UW_{425}	2005 10 28	691	Spacewatch
(497380)	2005 UM_{429}	2005 10 28	691	Spacewatch
(497381)	2005 UU_{435}	2005 10 29	G96	Mt. Lemmon Survey
(497382)	2005 UM_{436}	2005 10 09	691	Spacewatch
(497383)	2005 UM_{462}	2005 10 25	691	Spacewatch
(497384)	2005 UW_{472}	2005 10 30	G96	Mt. Lemmon Survey
(497385)	2005 UB_{526}	2005 10 28	G96	Mt. Lemmon Survey
(497386)	2005 UG_{527}	2005 10 30	G96	Mt. Lemmon Survey
(497387)	2005 VD_{8}	2005 11 01	691	Spacewatch
(497388)	2005 VS_{9}	2005 11 01	291	Spacewatch
(497389)	2005 VT_{33}	2005 11 02	G96	Mt. Lemmon Survey
(497390)	2005 VX_{59}	2005 11 05	691	Spacewatch
(497391)	2005 VA_{81}	2005 10 25	691	Mt. Lemmon Survey
(497392)	2005 VR_{89}	2005 10 25	691	Spacewatch
(497393)	2005 VH_{95}	2005 11 06	691	Spacewatch
(497394)	2005 VA_{103}	2005 11 02	703	CSS
(497395)	2005 VL_{109}	2005 11 06	G96	Mt. Lemmon Survey
(497396)	2005 VP_{114}	2005 11 10	599	CINEOS

(497397)	2005 VP_{117}	2005 11 11	691	Spacewatch
(497398)	2005 VC_{118}	2005 11 14	644	NEAT
(497399)	2005 VC_{125}	2005 11 10	G96	Mt. Lemmon Survey
(497400)	2005 VH_{130}	2005 09 23	705	Spacewatch
(497401)	2005 VR_{135}	2005 11 10	691	Spacewatch
(497402)	2005 WJ_{4}	2005 11 25	G96	Mt. Lemmon Survey
(497403)	2005 WT_{5}	2005 11 21	291	Spacewatch
(497404)	2005 WF_{14}	2005 11 03	691	Spacewatch
(497405)	2005 WF_{17}	2005 11 22	691	Spacewatch
(497406)	2005 WM_{33}	2005 11 21	691	Spacewatch
(497407)	2005 WG_{34}	2005 11 21	703	CSS
(497408)	2005 WY_{35}	2005 11 22	691	Spacewatch
(497409)	2005 WE_{48}	2005 11 25	691	Spacewatch
(497410)	2005 WE_{49}	2005 11 25	691	Spacewatch
(497411)	2005 WE_{50}	2005 11 25	G96	Mt. Lemmon Survey
(497412)	2005 WL_{63}	2005 11 25	G96	Mt. Lemmon Survey
(497413)	2005 WH_{80}	2005 11 25	691	Spacewatch
(497414)	2005 WS_{80}	2005 11 26	G96	Mt. Lemmon Survey
(497415)	2005 WU_{103}	2005 11 28	704	LINEAR
(497416)	2005 WW_{105}	2005 11 29	703	CSS
(497417)	2005 WG_{114}	2005 11 28	691	Spacewatch
(497418)	2005 WU_{124}	2005 11 25	691	Spacewatch
(497419)	2005 WF_{126}	2005 11 25	G96	Mt. Lemmon Survey
(497420)	2005 WO_{140}	2005 11 26	G96	Mt. Lemmon Survey
(497421)	2005 WT_{160}	2005 11 28	691	Spacewatch
(497422)	2005 WB_{166}	2005 11 29	704	LINEAR
(497423)	2005 WV_{186}	2005 11 29	691	Spacewatch
(497424)	2005 WK_{188}	2005 11 30	691	Spacewatch
(497425)	2005 XK	2005 12 01	G96	Mt. Lemmon Survey
(497426)	2005 XZ_{9}	2005 12 01	691	Spacewatch
(497427)	2005 XR_{12}	2005 10 25	G96	Mt. Lemmon Survey
(497428)	2005 XQ_{28}	2005 11 03	644	LINEAR
(497429)	2005 XB_{29}	2005 12 02	704	LINEAR
(497430)	2005 XA_{45}	2005 12 02	691	Spacewatch
(497431)	2005 XX_{49}	2005 12 02	691	Spacewatch
(497432)	2005 XH_{52}	2005 12 02	691	Spacewatch
(497433)	2005 XC_{59}	2005 12 03	691	Spacewatch
(497434)	2005 XA_{63}	2005 12 05	G96	Mt. Lemmon Survey
(497435)	2005 XH_{67}	2005 10 29	691	Mt. Lemmon Survey
(497436)	2005 XL_{82}	2005 12 10	691	Spacewatch
(497437)	2005 XD_{90}	2005 12 01	691	Spacewatch
(497438)	2005 XJ_{100}	2005 12 01	695	Buie, M. W.
(497439)	2005 YK_{7}	2005 12 22	703	CSS
(497440)	2005 YT_{13}	1995 08 25	691	Spacewatch
(497441)	2005 YW_{13}	2005 12 22	691	Spacewatch
(497442)	2005 YQ_{14}	2005 11 03	691	Mt. Lemmon Survey
(497443)	2005 YA_{19}	2005 12 07	691	Spacewatch
(497444)	2005 YW_{20}	2005 12 24	691	Spacewatch
(497445)	2005 YQ_{21}	2005 12 24	691	Spacewatch
(497446)	2005 YC_{22}	2005 12 24	691	Spacewatch
(497447)	2005 YH_{22}	2005 12 04	691	Mt. Lemmon Survey
(497448)	2005 YL_{22}	2005 12 24	691	Spacewatch
(497449)	2005 YN_{23}	2005 12 24	691	Spacewatch
(497450)	2005 YM_{32}	2005 12 22	691	Spacewatch
(497451)	2005 YG_{36}	2005 12 25	691	Spacewatch
(497452)	2005 YL_{52}	2005 10 27	G96	Mt. Lemmon Survey
(497453)	2005 YB_{58}	2005 12 24	691	Spacewatch
(497454)	2005 YN_{59}	2005 12 26	G96	Mt. Lemmon Survey
(497455)	2005 YY_{59}	2005 12 22	691	Spacewatch
(497456)	2005 YO_{62}	2005 12 05	691	Mt. Lemmon Survey
(497457)	2005 YP_{64}	2005 12 25	G96	Mt. Lemmon Survey
(497458)	2005 YQ_{80}	2005 12 24	691	Spacewatch
(497459)	2005 YR_{81}	2005 12 24	691	Spacewatch
(497460)	2005 YJ_{91}	2005 12 26	G96	Mt. Lemmon Survey
(497461)	2005 YV_{97}	2005 12 24	691	Spacewatch
(497462)	2005 YA_{98}	2005 12 24	691	Spacewatch
(497463)	2005 YB_{101}	2005 12 25	691	Spacewatch
(497464)	2005 YE_{108}	2005 12 25	691	Spacewatch
(497465)	2005 YR_{130}	2005 12 25	691	Spacewatch
(497466)	2005 YT_{137}	2005 12 26	691	Spacewatch
(497467)	2005 YR_{139}	2005 12 28	G96	Mt. Lemmon Survey
(497468)	2005 YA_{141}	2005 12 28	G96	Mt. Lemmon Survey
(497469)	2005 YD_{145}	2005 12 28	G96	Mt. Lemmon Survey
(497470)	2005 YC_{147}	2005 12 29	G96	Mt. Lemmon Survey
(497471)	2005 YA_{154}	2005 12 29	G96	Mt. Lemmon Survey
(497472)	2005 YQ_{163}	2005 12 28	691	Spacewatch
(497473)	2005 YD_{170}	2005 12 31	691	Spacewatch
(497474)	2005 YN_{174}	2005 12 29	644	NEAT
(497475)	2005 YH_{186}	2005 12 29	703	CSS
(497476)	2005 YO_{210}	2005 12 24	704	LINEAR
(497477)	2005 YW_{238}	2005 12 02	691	Mt. Lemmon Survey
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(497479)	2005 YM_{251}	2005 12 28	691	Spacewatch
(497480)	2005 YU_{255}	2005 12 02	691	Mt. Lemmon Survey
(497481)	2005 YG_{257}	2005 12 30	691	Spacewatch
(497482)	2005 YF_{271}	2005 12 28	691	Spacewatch
(497483)	2005 YE_{277}	2005 12 24	691	Spacewatch
(497484)	2005 YW_{284}	2005 12 28	691	Spacewatch
(497485)	2005 YA_{291}	2005 12 27	691	Spacewatch
(497486)	2006 AA_{6}	2006 01 02	704	LINEAR
(497487)	2006 AT_{14}	2006 01 05	G96	Mt. Lemmon Survey
(497488)	2006 AR_{15}	2005 10 06	G96	Mt. Lemmon Survey
(497489)	2006 AJ_{19}	2006 01 02	704	LINEAR
(497490)	2006 AH_{23}	2005 12 22	691	Spacewatch
(497491)	2006 AB_{24}	2005 12 10	691	Spacewatch
(497492)	2006 AH_{27}	2006 01 05	G96	Mt. Lemmon Survey
(497493)	2006 AO_{32}	2006 01 05	691	Spacewatch
(497494)	2006 AP_{58}	2005 12 24	G96	Spacewatch
(497495)	2006 AM_{66}	2006 01 09	691	Spacewatch
(497496)	2006 AO_{72}	2006 01 06	691	Mt. Lemmon Survey
(497497)	2006 AV_{76}	2005 12 28	691	Spacewatch
(497498)	2006 AA_{82}	2006 01 07	691	Spacewatch
(497499)	2006 AD_{86}	2005 10 25	G96	Spacewatch
(497500)	2006 AQ_{86}	2005 12 30	704	Mt. Lemmon Survey

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(497502)	2006 AP_{105}	2006 01 07	G96	Mt. Lemmon Survey
(497503)	2006 BL_{6}	2006 01 21	691	Spacewatch
(497504)	2006 BG_{9}	2006 01 22	691	Spacewatch
(497505)	2006 BR_{21}	2006 01 22	G96	Mt. Lemmon Survey
(497506)	2006 BO_{44}	2006 01 23	G96	Mt. Lemmon Survey
(497507)	2006 BZ_{48}	2006 01 25	691	Spacewatch
(497508)	2006 BB_{51}	2006 01 25	703	Spacewatch
(497509)	2006 BB_{66}	2006 01 23	691	Spacewatch
(497510)	2006 BQ_{74}	2006 01 23	691	Spacewatch
(497511)	2006 BF_{75}	2006 01 23	691	Spacewatch
(497512)	2006 BU_{75}	2006 01 23	691	Spacewatch
(497513)	2006 BQ_{76}	2006 01 23	691	Spacewatch
(497514)	2006 BR_{77}	2006 01 23	G96	Mt. Lemmon Survey
(497515)	2006 BX_{97}	2006 01 27	703	CSS
(497516)	2006 BN_{102}	2006 01 23	G96	Mt. Lemmon Survey
(497517)	2006 BL_{105}	2005 12 24	691	Spacewatch
(497518)	2006 BH_{118}	2005 12 25	691	Spacewatch
(497519)	2006 BJ_{119}	2005 12 25	691	CSS
(497520)	2006 BL_{123}	2006 01 26	691	Spacewatch
(497521)	2006 BY_{124}	2006 01 26	691	Spacewatch
(497522)	2006 BH_{133}	2006 01 26	691	Spacewatch
(497523)	2006 BO_{137}	2006 01 28	G96	Mt. Lemmon Survey
(497524)	2006 BW_{143}	2006 01 22	699	LONEOS
(497525)	2006 BC_{164}	2006 01 07	G96	Mt. Lemmon Survey
(497526)	2006 BL_{165}	2006 01 26	G96	Mt. Lemmon Survey
(497527)	2006 BU_{186}	2006 01 28	G96	Mt. Lemmon Survey
(497528)	2006 BY_{194}	2006 01 30	691	Spacewatch
(497529)	2006 BH_{204}	2006 01 31	691	Spacewatch
(497530)	2006 BM_{212}	2006 01 31	691	Spacewatch
(497531)	2006 BF_{225}	2006 01 05	691	Mt. Lemmon Survey
(497532)	2006 BF_{234}	2005 12 05	691	Mt. Lemmon Survey
(497533)	2006 BB_{236}	2006 01 23	691	Spacewatch
(497534)	2006 BR_{237}	2006 01 23	691	Spacewatch
(497535)	2006 BN_{245}	2006 01 21	691	Mt. Lemmon Survey
(497536)	2006 CF_{2}	2006 01 23	691	Spacewatch
(497537)	2006 CF_{11}	2006 01 04	691	Spacewatch
(497538)	2006 CW_{13}	2006 01 07	691	Mt. Lemmon Survey
(497539)	2006 CD_{16}	2006 01 23	G96	Mt. Lemmon Survey
(497540)	2006 CU_{17}	2006 01 23	691	Spacewatch
(497541)	2006 CN_{18}	2006 02 01	691	Spacewatch
(497542)	2006 CY_{22}	2006 02 01	691	Spacewatch
(497543)	2006 CS_{26}	2006 01 24	691	Spacewatch
(497544)	2006 CN_{41}	2006 02 02	691	Spacewatch
(497545)	2006 CD_{67}	2006 02 04	691	Spacewatch
(497546)	2006 CK_{67}	2001 12 17	G96	Spacewatch
(497547)	2006 DQ_{6}	2006 02 07	691	Mt. Lemmon Survey
(497548)	2006 DP_{28}	2006 02 20	691	Spacewatch
(497549)	2006 DT_{32}	2006 02 20	G96	Mt. Lemmon Survey
(497550)	2006 DJ_{33}	2006 02 20	691	Spacewatch
(497551)	2006 DH_{42}	2006 02 20	691	Spacewatch
(497552)	2006 DW_{47}	2006 01 30	G96	Spacewatch
(497553)	2006 DS_{85}	2006 02 20	691	Spacewatch
(497554)	2006 DQ_{92}	2006 02 24	G96	Mt. Lemmon Survey
(497555)	2006 DQ_{103}	2006 02 25	G96	Mt. Lemmon Survey
(497556)	2006 DQ_{105}	2006 02 25	G96	Mt. Lemmon Survey
(497557)	2006 DV_{113}	2006 02 27	691	Spacewatch
(497558)	2006 DE_{125}	2006 01 26	691	Spacewatch
(497559)	2006 DG_{133}	2006 01 28	691	Spacewatch
(497560)	2006 DL_{139}	2006 02 25	691	Spacewatch
(497561)	2006 DK_{142}	2006 02 25	691	Spacewatch
(497562)	2006 DS_{142}	2006 02 25	691	Spacewatch
(497563)	2006 DM_{143}	2006 02 25	G96	Mt. Lemmon Survey
(497564)	2006 DJ_{146}	2006 02 25	G96	Mt. Lemmon Survey
(497565)	2006 DU_{146}	2006 02 25	691	Spacewatch
(497566)	2006 DU_{154}	2006 02 25	691	Spacewatch
(497567)	2006 DD_{163}	2006 02 27	G96	Mt. Lemmon Survey
(497568)	2006 DO_{171}	2006 02 27	691	Spacewatch
(497569)	2006 DH_{176}	2006 02 27	G96	Mt. Lemmon Survey
(497570)	2006 DK_{176}	2006 02 27	G96	Mt. Lemmon Survey
(497571)	2006 DA_{177}	2006 01 26	G96	Mt. Lemmon Survey
(497572)	2006 DC_{211}	2006 02 24	691	Spacewatch
(497573)	2006 EC_{49}	2006 01 08	691	Mt. Lemmon Survey
(497574)	2006 EO_{53}	2006 03 02	691	Spacewatch
(497575)	2006 EJ_{73}	2006 01 30	691	Spacewatch
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(497577)	2006 FA_{2}	2006 02 20	G96	CSS
(497578)	2006 FA_{47}	2006 03 23	703	CSS
(497579)	2006 GP_{8}	2006 03 24	691	Spacewatch
(497580)	2006 GD_{34}	2006 04 07	691	Spacewatch
(497581)	2006 GW_{37}	2006 04 07	699	LONEOS
(497582)	2006 HC_{9}	2006 04 19	691	Spacewatch
(497583)	2006 HG_{20}	2006 04 19	G96	Mt. Lemmon Survey
(497584)	2006 HJ_{24}	2006 04 20	691	Spacewatch
(497585)	2006 HB_{25}	2006 04 20	691	Spacewatch
(497586)	2006 HS_{61}	2006 04 24	691	Spacewatch
(497587)	2006 HX_{63}	2006 04 24	691	Spacewatch
(497588)	2006 HJ_{73}	2006 04 25	691	Spacewatch
(497589)	2006 HV_{86}	2006 04 29	691	Spacewatch
(497590)	2006 HM_{92}	2006 04 21	691	Spacewatch
(497591)	2006 HS_{123}	2006 04 24	691	Spacewatch
(497592)	2006 JB_{52}	2006 05 04	691	Spacewatch
(497593)	2006 JU_{69}	2006 05 01	568	Wiegert, P. A.
(497594)	2006 KZ_{8}	2006 05 19	G96	Mt. Lemmon Survey
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(497596)	2006 KY_{27}	2006 05 04	691	Spacewatch
(497597)	2006 KX_{32}	2006 05 20	691	Spacewatch
(497598)	2006 KR_{40}	2006 05 19	G96	Mt. Lemmon Survey
(497599)	2006 KL_{52}	2006 05 07	691	Mt. Lemmon Survey
(497600)	2006 KY_{58}	2006 05 08	691	Spacewatch
(497601)	2006 KD_{90}	2006 05 23	691	Spacewatch
(497602)	2006 KJ_{102}	2006 05 09	691	Mt. Lemmon Survey
(497603)	2006 KO_{108}	2006 05 03	G96	Mt. Lemmon Survey
(497604)	2006 KR_{119}	2006 05 31	691	Spacewatch

(497605)	2006 MF	2006 04 20	691	Spacewatch
(497606)	2006 MW_{2}	2006 04 24	691	Spacewatch
(497607)	2006 OK_{4}	2006 07 21	G96	Mt. Lemmon Survey
(497608)	2006 PM_{2}	2006 08 12	644	NEAT
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(497611)	2006 PT_{13}	2006 08 14	E12	Siding Spring Survey
(497612)	2006 QS_{2}	2006 08 17	644	NEAT
(497613)	2006 QK_{4}	2006 08 18	691	Spacewatch
(497614)	2006 QQ_{7}	2006 07 21	691	CSS
(497615)	2006 QT_{8}	2006 08 19	691	Spacewatch
(497616)	2006 QF_{13}	2006 08 16	E12	Siding Spring Survey
(497617)	2006 QP_{35}	2006 08 17	644	NEAT
(497618)	2006 QD_{37}	2006 08 16	E12	Siding Spring Survey
(497619)	2006 QL_{39}	2006 08 19	699	LONEOS
(497620)	2006 QR_{48}	2006 08 21	644	NEAT
(497621)	2006 QY_{49}	2006 08 22	644	NEAT
(497622)	2006 QZ_{55}	2006 08 18	691	Spacewatch
(497623)	2006 QA_{62}	2006 08 22	644	NEAT
(497624)	2006 QZ_{72}	2006 08 21	691	Spacewatch
(497625)	2006 QT_{81}	2006 08 24	644	NEAT
(497626)	2006 QT_{89}	2006 08 29	703	CSS
(497627)	2006 QU_{95}	2006 08 16	644	NEAT
(497628)	2006 QD_{99}	2006 08 19	644	Spacewatch
(497629)	2006 QJ_{105}	2006 08 28	703	CSS
(497630)	2006 QQ_{115}	2006 08 27	699	LONEOS
(497631)	2006 QZ_{121}	2006 08 24	703	LINEAR
(497632)	2006 QM_{162}	2006 08 21	691	Spacewatch
(497633)	2006 QS_{166}	2006 08 29	699	LONEOS
(497634)	2006 QV_{184}	2006 08 21	691	Spacewatch
(497635)	2006 QZ_{184}	2006 08 18	691	Spacewatch
(497636)	2006 QP_{185}	2006 08 18	691	Spacewatch
(497637)	2006 QV_{186}	2006 08 18	691	Spacewatch
(497638)	2006 RA_{5}	2006 09 14	703	CSS
(497639)	2006 RY_{7}	2006 09 12	703	CSS
(497640)	2006 RB_{10}	2006 08 28	644	CSS
(497641)	2006 RR_{12}	2006 08 30	691	LONEOS
(497642)	2006 RW_{31}	2006 09 15	691	Spacewatch
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(497644)	2006 RS_{40}	2006 09 14	691	Spacewatch
(497645)	2006 RQ_{41}	2006 09 14	691	Spacewatch
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(497661)	2006 RW_{75}	2006 09 15	691	Spacewatch
(497662)	2006 RB_{79}	2006 09 15	691	Spacewatch
(497663)	2006 RF_{79}	2006 09 15	691	Spacewatch
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(497670)	2006 RS_{96}	2006 09 15	691	Spacewatch
(497671)	2006 RJ_{104}	2006 09 11	705	Becker, A. C.
(497672)	2006 RD_{107}	2006 09 14	568	Masiero, J.
(497673)	2006 RG_{121}	2006 09 14	691	Spacewatch
(497674)	2006 ST_{1}	2006 09 16	691	Spacewatch
(497675)	2006 SY_{1}	2006 09 16	703	CSS
(497676)	2006 SR_{2}	2006 09 16	703	CSS
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(497678)	2006 SF_{11}	2006 08 28	691	Spacewatch
(497679)	2006 SL_{14}	2006 08 18	703	Spacewatch
(497680)	2006 SE_{17}	2006 09 17	691	Spacewatch
(497681)	2006 SK_{26}	2006 09 16	703	CSS
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(497684)	2006 SP_{32}	2006 09 17	691	Spacewatch
(497685)	2006 SS_{32}	2006 08 28	691	CSS
(497686)	2006 SP_{41}	2006 09 18	291	Spacewatch
(497687)	2006 SU_{46}	2006 07 25	703	Mt. Lemmon Survey
(497688)	2006 SD_{54}	2006 08 29	703	LONEOS
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(497701)	2006 SL_{85}	2006 09 18	691	Spacewatch
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(497703)	2006 SG_{87}	2006 09 18	691	Spacewatch
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(497709)	2006 SX_{104}	2006 09 19	703	CSS
(497710)	2006 SA_{106}	2006 09 19	691	Spacewatch
(497711)	2006 SE_{106}	2006 09 19	691	Spacewatch
(497712)	2006 SN_{114}	2006 09 23	691	Spacewatch
(497713)	2006 SG_{116}	2006 09 24	691	Spacewatch
(497714)	2006 SS_{117}	2006 09 15	691	Spacewatch
(497715)	2006 SY_{119}	2006 09 18	703	CSS
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(497717)	2006 SF_{134}	2006 09 20	691	Spacewatch
(497718)	2006 SH_{134}	2006 09 16	644	CSS
(497719)	2006 SR_{145}	2006 09 19	691	Spacewatch
(497720)	2006 SC_{150}	2006 09 19	691	Spacewatch
(497721)	2006 SZ_{156}	2006 09 15	691	Spacewatch
(497722)	2006 SB_{158}	2006 09 15	691	Spacewatch
(497723)	2006 SO_{163}	2006 09 24	691	Spacewatch
(497724)	2006 SJ_{166}	2006 09 25	691	Spacewatch
(497725)	2006 SD_{167}	2006 09 17	691	Spacewatch
(497726)	2006 SN_{167}	2006 09 25	691	Spacewatch
(497727)	2006 SB_{170}	2006 09 25	691	Spacewatch
(497728)	2006 SH_{171}	2006 09 17	691	Spacewatch
(497729)	2006 SW_{175}	2006 09 25	691	Spacewatch
(497730)	2006 SP_{178}	2006 09 25	G96	Mt. Lemmon Survey
(497731)	2006 SV_{180}	2006 09 25	G96	Mt. Lemmon Survey
(497732)	2006 SS_{182}	2006 09 25	691	Spacewatch
(497733)	2006 SQ_{184}	2006 09 25	691	Spacewatch
(497734)	2006 SO_{186}	2006 09 25	691	Spacewatch
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(498826)	2008 VO_{24}	2008 10 24	691	Spacewatch
(498827)	2008 VC_{39}	2008 11 02	691	Spacewatch
(498828)	2008 VN_{48}	2008 10 26	691	Spacewatch
(498829)	2008 VZ_{78}	2008 11 08	G96	Mt. Lemmon Survey
(498830)	2008 WU_{1}	2008 11 18	704	LINEAR
(498831)	2008 WY_{3}	2008 09 29	691	Spacewatch
(498832)	2008 WQ_{17}	2008 10 08	691	Spacewatch
(498833)	2008 WR_{21}	2008 09 29	291	Spacewatch
(498834)	2008 WZ_{22}	2008 10 23	703	Spacewatch
(498835)	2008 WW_{30}	2008 11 19	G96	Mt. Lemmon Survey
(498836)	2008 WZ_{35}	2008 10 28	691	Spacewatch
(498837)	2008 WF_{36}	2008 10 28	691	Spacewatch
(498838)	2008 WL_{39}	2004 12 20	691	Mt. Lemmon Survey
(498839)	2008 WS_{52}	2008 11 01	691	Spacewatch
(498840)	2008 WU_{59}	2008 11 18	704	LINEAR
(498841)	2008 WK_{75}	2008 10 25	691	Mt. Lemmon Survey
(498842)	2008 WA_{76}	2008 11 20	691	Spacewatch
(498843)	2008 WM_{76}	2008 11 20	691	Spacewatch
(498844)	2008 WP_{98}	2008 11 22	J75	OAM
(498845)	2008 WT_{99}	2008 10 06	G96	Mt. Lemmon Survey
(498846)	2008 WY_{99}	2008 11 08	G96	Mt. Lemmon Survey
(498847)	2008 WT_{105}	2008 11 22	691	Spacewatch
(498848)	2008 WH_{129}	2008 11 19	G96	Mt. Lemmon Survey
(498849)	2008 WT_{139}	2008 11 22	704	LINEAR
(498850)	2008 XM_{13}	2008 12 03	691	Spacewatch
(498851)	2008 XK_{21}	2008 12 01	691	Spacewatch
(498852)	2008 XZ_{32}	2008 12 02	691	Spacewatch

(498853)	2008 XW_{33}	2008 11 19	691	Spacewatch
(498854)	2008 XH_{50}	2008 12 03	G96	Mt. Lemmon Survey
(498855)	2008 XU_{54}	2008 12 04	G96	Mt. Lemmon Survey
(498856)	2008 YX_{4}	2008 12 21	461	Sárneczky, K.
(498857)	2008 YD_{21}	2008 12 21	G96	Mt. Lemmon Survey
(498858)	2008 YX_{35}	2008 12 22	691	Spacewatch
(498859)	2008 YW_{42}	2008 11 19	691	Mt. Lemmon Survey
(498860)	2008 YO_{43}	2008 12 29	691	Spacewatch
(498861)	2008 YL_{44}	2008 12 05	G96	Mt. Lemmon Survey
(498862)	2008 YB_{50}	2008 12 21	G96	Spacewatch
(498863)	2008 YF_{52}	2008 12 29	G96	Mt. Lemmon Survey
(498864)	2008 YJ_{54}	2008 12 29	G96	Mt. Lemmon Survey
(498865)	2008 YJ_{56}	2008 12 30	691	Spacewatch
(498866)	2008 YB_{60}	2008 10 07	G96	Mt. Lemmon Survey
(498867)	2008 YA_{81}	2008 11 24	691	Mt. Lemmon Survey
(498868)	2008 YD_{82}	2008 12 31	691	Spacewatch
(498869)	2008 YK_{86}	2008 11 20	691	Mt. Lemmon Survey
(498870)	2008 YW_{90}	2008 12 04	691	Mt. Lemmon Survey
(498871)	2008 YG_{92}	2008 11 02	691	Mt. Lemmon Survey
(498872)	2008 YZ_{93}	2008 12 29	691	Spacewatch
(498873)	2008 YM_{96}	2008 12 21	G96	Mt. Lemmon Survey
(498874)	2008 YZ_{98}	2008 12 07	691	Mt. Lemmon Survey
(498875)	2008 YZ_{99}	2008 12 29	691	Spacewatch
(498876)	2008 YD_{100}	2008 12 21	691	Spacewatch
(498877)	2008 YD_{102}	2008 12 29	691	Spacewatch
(498878)	2008 YS_{102}	2008 12 29	691	Spacewatch
(498879)	2008 YL_{107}	2008 12 21	691	Mt. Lemmon Survey
(498880)	2008 YP_{108}	2008 12 29	691	Spacewatch
(498881)	2008 YD_{110}	2008 12 02	691	Mt. Lemmon Survey
(498882)	2008 YR_{114}	2008 11 08	691	Mt. Lemmon Survey
(498883)	2008 YK_{118}	2008 12 22	691	Spacewatch
(498884)	2008 YC_{120}	2008 12 22	691	Spacewatch
(498885)	2008 YW_{122}	2008 12 30	691	Spacewatch
(498886)	2008 YA_{124}	2008 12 04	691	Mt. Lemmon Survey
(498887)	2008 YX_{126}	2008 12 30	691	Spacewatch
(498888)	2008 YW_{132}	2008 12 31	691	Spacewatch
(498889)	2008 YL_{133}	2008 12 29	G96	Mt. Lemmon Survey
(498890)	2008 YS_{137}	2008 12 30	G96	Mt. Lemmon Survey
(498891)	2008 YQ_{143}	2008 12 30	691	Spacewatch
(498892)	2008 YB_{144}	2008 12 22	691	Mt. Lemmon Survey
(498893)	2008 YG_{148}	2008 12 31	691	Spacewatch
(498894)	2008 YN_{150}	2008 12 22	691	Spacewatch
(498895)	2008 YG_{151}	2008 12 22	691	Spacewatch
(498896)	2008 YX_{154}	2008 12 22	G96	Mt. Lemmon Survey
(498897)	2008 YY_{158}	2008 12 30	G96	Mt. Lemmon Survey
(498898)	2008 YB_{171}	2008 12 19	704	LINEAR
(498899)	2008 YX_{172}	2008 12 30	G96	Mt. Lemmon Survey
(498900)	2009 AC	2008 12 22	H06	Spacewatch
(498901)	2009 AU_{1}	2007 08 15	G68	LINEAR
(498902)	2009 AT_{6}	2009 01 01	691	Spacewatch
(498903)	2009 AN_{9}	2008 12 05	G96	Mt. Lemmon Survey
(498904)	2009 AU_{11}	2009 01 02	G96	Mt. Lemmon Survey
(498905)	2009 AS_{12}	2009 01 02	G96	Mt. Lemmon Survey
(498906)	2009 AE_{20}	2008 12 22	G96	Spacewatch
(498907)	2009 AA_{21}	2009 01 02	G96	Mt. Lemmon Survey
(498908)	2009 AW_{23}	2008 12 30	691	Mt. Lemmon Survey
(498909)	2009 AV_{25}	2009 01 02	691	Spacewatch
(498910)	2009 AS_{30}	2009 01 15	691	Spacewatch
(498911)	2009 AQ_{33}	2008 12 29	691	Mt. Lemmon Survey
(498912)	2009 AK_{34}	2008 12 06	691	Spacewatch
(498913)	2009 AH_{36}	2009 01 15	691	Spacewatch
(498914)	2009 AS_{39}	2009 01 15	691	Spacewatch
(498915)	2009 AB_{43}	2009 01 03	G96	Mt. Lemmon Survey
(498916)	2009 AW_{46}	2009 01 01	G96	Mt. Lemmon Survey
(498917)	2009 AX_{48}	2009 01 07	691	Spacewatch
(498918)	2009 BF	2009 01 16	G96	Mt. Lemmon Survey
(498919)	2009 BZ_{9}	2008 11 24	621	Mt. Lemmon Survey
(498920)	2009 BO_{14}	2008 12 01	G68	Mt. Lemmon Survey
(498921)	2009 BN_{15}	2008 12 21	691	Spacewatch
(498922)	2009 BR_{18}	2009 01 16	691	Spacewatch
(498923)	2009 BT_{19}	2008 12 22	G96	Spacewatch
(498924)	2009 BV_{22}	2009 01 01	691	Mt. Lemmon Survey
(498925)	2009 BT_{23}	2008 12 22	G96	Spacewatch
(498926)	2009 BW_{27}	2008 12 22	691	Spacewatch
(498927)	2009 BD_{30}	2009 01 16	691	Spacewatch
(498928)	2009 BP_{32}	2007 10 08	691	CSS
(498929)	2009 BB_{33}	2009 01 02	691	Mt. Lemmon Survey
(498930)	2009 BY_{35}	2009 01 01	691	Mt. Lemmon Survey
(498931)	2009 BE_{37}	2009 01 16	691	Spacewatch
(498932)	2009 BF_{37}	2009 01 01	691	Mt. Lemmon Survey
(498933)	2009 BQ_{37}	2009 01 16	691	Spacewatch
(498934)	2009 BJ_{38}	2009 01 16	691	Spacewatch
(498935)	2009 BL_{38}	2009 01 16	691	Spacewatch
(498936)	2009 BH_{39}	2008 12 30	691	Mt. Lemmon Survey
(498937)	2009 BV_{43}	2009 01 16	691	Spacewatch
(498938)	2009 BS_{44}	2008 12 07	691	Mt. Lemmon Survey
(498939)	2009 BZ_{47}	2009 01 02	G96	Mt. Lemmon Survey
(498940)	2009 BC_{48}	2008 12 21	G96	Spacewatch
(498941)	2009 BK_{50}	2008 12 22	G96	Mt. Lemmon Survey
(498942)	2009 BY_{51}	2008 12 22	G96	Spacewatch
(498943)	2009 BN_{52}	2009 01 16	691	Spacewatch
(498944)	2009 BU_{53}	2009 01 01	G96	Mt. Lemmon Survey
(498945)	2009 BY_{58}	2008 11 02	G96	Mt. Lemmon Survey
(498946)	2009 BJ_{61}	2009 01 18	691	Spacewatch
(498947)	2009 BU_{61}	2009 01 18	G96	Mt. Lemmon Survey
(498948)	2009 BF_{62}	2009 01 18	691	Spacewatch
(498949)	2009 BD_{70}	2009 01 25	703	CSS
(498950)	2009 BQ_{71}	2009 01 22	A77	Kugel, F.
(498951)	2009 BC_{77}	2008 12 21	H36	Spacewatch
(498952)	2009 BG_{84}	2009 01 02	691	Mt. Lemmon Survey
(498953)	2009 BK_{85}	2009 01 25	691	Spacewatch
(498954)	2009 BG_{87}	2009 01 25	691	Spacewatch
(498955)	2009 BR_{87}	2009 01 15	691	Spacewatch
(498956)	2009 BT_{87}	2009 01 15	691	Spacewatch

(498957)	2009 BK_{89}	2008 12 30	691	Mt. Lemmon Survey
(498958)	2009 BM_{90}	2009 01 25	691	Spacewatch
(498959)	2009 BN_{94}	2009 01 01	691	Mt. Lemmon Survey
(498960)	2009 BQ_{94}	2009 01 25	691	Spacewatch
(498961)	2009 BM_{100}	2009 01 15	691	Spacewatch
(498962)	2009 BM_{104}	2009 01 20	691	Spacewatch
(498963)	2009 BL_{107}	2009 01 29	691	Spacewatch
(498964)	2009 BZ_{110}	2009 01 20	691	Spacewatch
(498965)	2009 BH_{115}	2008 11 24	691	Mt. Lemmon Survey
(498966)	2009 BY_{116}	2007 10 09	G96	Mt. Lemmon Survey
(498967)	2009 BK_{122}	2009 01 20	691	Spacewatch
(498968)	2009 BE_{127}	2009 01 29	691	Spacewatch
(498969)	2009 BG_{129}	2009 01 30	G96	Mt. Lemmon Survey
(498970)	2009 BP_{133}	2008 12 22	691	Spacewatch
(498971)	2009 BW_{133}	2009 01 02	691	Mt. Lemmon Survey
(498972)	2009 BE_{134}	2009 01 29	691	Spacewatch
(498973)	2009 BK_{137}	2009 01 29	691	Spacewatch
(498974)	2009 BW_{139}	2006 08 19	691	Spacewatch
(498975)	2009 BM_{140}	2009 01 03	691	Mt. Lemmon Survey
(498976)	2009 BX_{143}	2009 01 16	691	Spacewatch
(498977)	2009 BG_{144}	2009 01 30	691	Spacewatch
(498978)	2009 BX_{144}	2009 01 16	691	Spacewatch
(498979)	2009 BL_{146}	2009 01 30	G96	Mt. Lemmon Survey
(498980)	2009 BB_{149}	2009 01 20	691	Spacewatch
(498981)	2009 BE_{154}	2009 01 02	691	Mt. Lemmon Survey
(498982)	2009 BH_{154}	2008 12 29	691	Mt. Lemmon Survey
(498983)	2009 BJ_{157}	2009 01 31	691	Spacewatch
(498984)	2009 BQ_{159}	2009 01 31	691	Spacewatch
(498985)	2009 BE_{164}	2009 01 31	691	Spacewatch
(498986)	2009 BZ_{166}	2009 01 25	691	Spacewatch
(498987)	2009 BA_{167}	2009 01 20	691	Spacewatch
(498988)	2009 BD_{170}	2009 01 16	691	Spacewatch
(498989)	2009 BD_{171}	2009 01 17	G96	Mt. Lemmon Survey
(498990)	2009 BC_{172}	2009 01 18	691	Spacewatch
(498991)	2009 BH_{174}	2009 01 25	703	CSS
(498992)	2009 BT_{174}	2009 01 25	691	Spacewatch
(498993)	2009 BZ_{175}	2009 01 31	G96	Mt. Lemmon Survey
(498994)	2009 BV_{176}	2009 01 16	691	Spacewatch
(498995)	2009 BF_{177}	2009 01 28	703	CSS
(498996)	2009 BK_{177}	2009 01 29	G96	Mt. Lemmon Survey
(498997)	2009 BR_{180}	2009 01 30	691	Spacewatch
(498998)	2009 BT_{183}	2009 01 18	703	CSS
(498999)	2009 CG_{8}	2008 12 21	G96	Spacewatch
(499000)	2009 CF_{15}	2008 12 30	691	Mt. Lemmon Survey
(499001)	2009 CH_{25}	2009 02 01	691	Spacewatch
(499002)	2009 CK_{27}	2009 02 01	691	Spacewatch
(499003)	2009 CK_{29}	2009 01 17	691	Spacewatch
(499004)	2009 CU_{29}	2009 02 01	691	Spacewatch
(499005)	2009 CM_{30}	2009 02 01	691	Mt. Lemmon Survey
(499006)	2009 CS_{32}	2009 02 01	691	Spacewatch
(499007)	2009 CK_{37}	2007 11 20	G96	Mt. Lemmon Survey
(499008)	2009 CV_{38}	2007 11 03	691	Mt. Lemmon Survey
(499009)	2009 CX_{41}	2009 01 20	691	Spacewatch
(499010)	2009 CE_{44}	2009 02 14	691	Spacewatch
(499011)	2009 CW_{45}	2009 02 14	691	Spacewatch
(499012)	2009 CS_{48}	2008 12 29	G96	Spacewatch
(499013)	2009 CW_{50}	2009 02 14	J75	OAM
(499014)	2009 CP_{51}	2009 02 14	J75	OAM
(499015)	2009 CL_{52}	2009 01 25	G96	Spacewatch
(499016)	2009 CS_{52}	2009 01 16	G96	Spacewatch
(499017)	2009 CZ_{55}	2009 02 01	691	Spacewatch
(499018)	2009 CK_{60}	2009 02 03	691	Spacewatch
(499019)	2009 CV_{60}	2008 12 30	691	Mt. Lemmon Survey
(499020)	2009 CF_{62}	2009 02 03	291	Spacewatch
(499021)	2009 CR_{62}	2009 02 13	G96	Mt. Lemmon Survey
(499022)	2009 DK_{8}	2009 01 30	G96	Mt. Lemmon Survey
(499023)	2009 DC_{18}	2009 02 19	691	Spacewatch
(499024)	2009 DS_{18}	2009 02 04	G96	Spacewatch
(499025)	2009 DG_{20}	2009 01 15	691	Spacewatch
(499026)	2009 DR_{20}	2009 01 18	691	Spacewatch
(499027)	2009 DG_{21}	2009 02 02	691	Mt. Lemmon Survey
(499028)	2009 DA_{22}	2009 01 31	691	Spacewatch
(499029)	2009 DW_{28}	2006 09 27	493	Spacewatch
(499030)	2009 DL_{29}	2009 02 19	493	OAM
(499031)	2009 DR_{42}	2009 02 18	J75	OAM
(499032)	2009 DG_{44}	2009 02 20	A77	Mt. Lemmon Survey
(499033)	2009 DQ_{44}	2009 02 20	A77	CSS
(499034)	2009 DD_{49}	2007 11 04	691	Spacewatch
(499035)	2009 DM_{53}	2009 01 31	691	Spacewatch
(499036)	2009 DU_{53}	2009 02 01	691	Mt. Lemmon Survey
(499037)	2009 DV_{55}	2009 02 22	691	Spacewatch
(499038)	2009 DF_{57}	2009 02 04	691	Mt. Lemmon Survey
(499039)	2009 DH_{57}	2009 02 04	691	Mt. Lemmon Survey
(499040)	2009 DM_{58}	2009 02 22	691	Spacewatch
(499041)	2009 DU_{58}	2009 02 22	691	Spacewatch
(499042)	2009 DN_{59}	2009 02 22	G96	Mt. Lemmon Survey
(499043)	2009 DO_{62}	2009 01 25	G96	Spacewatch
(499044)	2009 DG_{63}	2009 02 22	691	Spacewatch
(499045)	2009 DO_{64}	2009 02 22	691	Spacewatch
(499046)	2009 DY_{64}	2009 01 15	G96	Spacewatch
(499047)	2009 DD_{65}	2009 01 31	691	Spacewatch
(499048)	2009 DK_{77}	2009 02 03	G96	Mt. Lemmon Survey
(499049)	2009 DK_{86}	2009 02 19	691	Spacewatch
(499050)	2009 DY_{87}	2009 02 27	691	Spacewatch
(499051)	2009 DF_{91}	2009 01 25	G96	Spacewatch
(499052)	2009 DR_{91}	2009 02 19	691	Spacewatch
(499053)	2009 DQ_{94}	2007 10 10	G96	Mt. Lemmon Survey
(499054)	2009 DS_{98}	2009 02 26	691	Spacewatch
(499055)	2009 DT_{105}	2009 02 26	691	Spacewatch
(499056)	2009 DO_{116}	2009 02 04	691	Mt. Lemmon Survey
(499057)	2009 DY_{117}	2009 02 27	691	Spacewatch
(499058)	2009 DC_{118}	2009 01 31	691	Mt. Lemmon Survey
(499059)	2009 DD_{119}	2006 08 28	691	Spacewatch
(499060)	2009 DT_{119}	2009 02 27	691	Spacewatch

(499061)	2009 DG_{122}	2009 02 27	691	Spacewatch
(499062)	2009 DK_{127}	2009 02 20	291	Spacewatch
(499063)	2009 DE_{128}	2009 02 21	691	Spacewatch
(499064)	2009 DM_{129}	2009 02 27	691	Spacewatch
(499065)	2009 DP_{132}	2009 01 19	691	Mt. Lemmon Survey
(499066)	2009 DT_{132}	2009 02 26	691	Spacewatch
(499067)	2009 DC_{133}	2005 02 04	691	Mt. Lemmon Survey
(499068)	2009 DV_{139}	2009 02 16	691	Spacewatch
(499069)	2009 EH	2009 03 01	H10	Tozzi, F.
(499070)	2009 EF_{5}	2009 01 19	G96	Mt. Lemmon Survey
(499071)	2009 EU_{7}	2009 02 14	G96	Spacewatch
(499072)	2009 ET_{10}	2009 03 01	691	Spacewatch
(499073)	2009 EB_{22}	2006 04 02	691	Spacewatch
(499074)	2009 EE_{24}	2009 03 01	691	Spacewatch
(499075)	2009 EJ_{26}	2009 02 24	691	Spacewatch
(499076)	2009 EG_{29}	2009 03 02	691	Spacewatch
(499077)	2009 EZ_{29}	2009 03 01	G96	Mt. Lemmon Survey
(499078)	2009 FA_{1}	2009 02 26	B67	Mt. Lemmon Survey
(499079)	2009 FQ_{3}	2009 03 17	611	Starkenburg
(499080)	2009 FE_{4}	2009 02 28	B01	Mt. Lemmon Survey
(499081)	2009 FG_{6}	2009 03 03	291	Mt. Lemmon Survey
(499082)	2009 FX_{7}	2009 03 01	691	Spacewatch
(499083)	2009 FZ_{11}	2009 02 13	691	Spacewatch
(499084)	2009 FQ_{13}	2009 02 19	A77	Spacewatch
(499085)	2009 FA_{15}	2009 02 01	691	Spacewatch
(499086)	2009 FK_{16}	2009 01 30	493	Mt. Lemmon Survey
(499087)	2009 FR_{18}	2009 03 19	J75	OAM
(499088)	2009 FZ_{19}	2009 03 16	682	Sheridan, E.
(499089)	2009 FT_{37}	2009 03 01	G96	Spacewatch
(499090)	2009 FV_{38}	2009 03 17	J75	OAM
(499091)	2009 FA_{41}	2008 12 29	J75	Mt. Lemmon Survey
(499092)	2009 FV_{42}	2009 03 28	703	CSS
(499093)	2009 FY_{47}	2009 02 05	691	Mt. Lemmon Survey
(499094)	2009 FQ_{49}	2009 03 01	G96	Spacewatch
(499095)	2009 FB_{55}	2009 03 21	691	Spacewatch
(499096)	2009 FK_{58}	2009 02 26	G96	Spacewatch
(499097)	2009 FE_{64}	2009 03 21	691	Spacewatch
(499098)	2009 FF_{70}	2009 03 19	691	Spacewatch
(499099)	2009 FG_{70}	2005 01 15	691	Spacewatch
(499100)	2009 FV_{70}	2009 03 23	D29	PMO NEO Survey Program
(499101)	2009 FA_{76}	2009 03 19	G96	CSS
(499102)	2009 GQ_{2}	2009 03 19	B21	Spacewatch
(499103)	2009 GF_{4}	2009 03 21	291	Spacewatch
(499104)	2009 GA_{5}	2009 04 02	G96	Mt. Lemmon Survey
(499105)	2009 HU_{3}	2009 04 17	691	Spacewatch
(499106)	2009 HP_{9}	2009 04 02	291	Spacewatch
(499107)	2009 HJ_{11}	2009 04 18	G96	Mt. Lemmon Survey
(499108)	2009 HC_{15}	2009 04 18	691	Spacewatch
(499109)	2009 HU_{15}	2009 03 02	691	Mt. Lemmon Survey
(499110)	2009 HQ_{23}	2009 03 31	G96	Mt. Lemmon Survey
(499111)	2009 HX_{28}	2009 03 18	691	Spacewatch
(499112)	2009 HP_{42}	2009 04 20	691	Spacewatch
(499113)	2009 HZ_{54}	2009 04 20	691	Spacewatch
(499114)	2009 HJ_{74}	2009 03 21	703	CSS
(499115)	2009 HX_{75}	2009 03 19	G96	Spacewatch
(499116)	2009 HF_{78}	2009 04 24	G96	Mt. Lemmon Survey
(499117)	2009 HZ_{93}	2009 04 27	D29	PMO NEO Survey Program
(499118)	2009 HY_{97}	2009 04 19	G96	Mt. Lemmon Survey
(499119)	2009 HW_{98}	2009 04 20	G96	Mt. Lemmon Survey
(499120)	2009 HA_{104}	2009 04 20	G96	Mt. Lemmon Survey
(499121)	2009 HJ_{105}	2009 03 21	G96	Spacewatch
(499122)	2009 JE_{11}	2009 05 14	E12	Siding Spring Survey
(499123)	2009 KZ_{2}	2009 05 20	H06	Lowe, A.
(499124)	2009 KA_{10}	2009 05 14	691	Spacewatch
(499125)	2009 KC_{19}	2009 05 28	G96	Mt. Lemmon Survey
(499126)	2009 KG_{30}	2009 05 27	J75	OAM
(499127)	2009 LE_{1}	2009 05 16	691	Spacewatch
(499128)	2009 OV_{22}	2009 07 19	J75	OAM
(499129)	2009 PC_{9}	2005 10 03	291	Spacewatch
(499130)	2009 PN_{9}	2009 08 15	691	Spacewatch
(499131)	2009 PC_{10}	2009 07 14	J75	Spacewatch
(499132)	2009 PZ_{19}	2009 08 15	691	Spacewatch
(499133)	2009 QA_{22}	2009 08 20	J75	OAM
(499134)	2009 QW_{30}	2005 09 29	J75	CSS
(499135)	2009 QC_{33}	2009 08 18	J75	OAM
(499136)	2009 QO_{33}	2009 07 29	J75	CSS
(499137)	2009 QX_{36}	2009 08 30	A44	Ries, W.
(499138)	2009 QC_{41}	2009 08 26	703	CSS
(499139)	2009 QT_{62}	2009 08 26	J75	OAM
(499140)	2009 RL_{1}	2009 09 10	J75	OAM
(499141)	2009 RZ_{7}	2009 09 12	691	Spacewatch
(499142)	2009 RJ_{12}	2009 09 12	691	Spacewatch
(499143)	2009 RE_{16}	2009 09 12	691	Spacewatch
(499144)	2009 RT_{16}	2009 09 12	691	Spacewatch
(499145)	2009 RF_{19}	2009 09 13	D29	PMO NEO Survey Program
(499146)	2009 RC_{29}	2009 09 14	691	Spacewatch
(499147)	2009 RL_{45}	2009 09 15	691	Spacewatch
(499148)	2009 RT_{49}	2009 09 15	691	Spacewatch
(499149)	2009 RG_{51}	2009 09 15	691	Spacewatch
(499150)	2009 RY_{51}	2009 09 15	691	Spacewatch
(499151)	2009 RC_{55}	2007 04 23	691	Mt. Lemmon Survey
(499152)	2009 RB_{62}	2009 09 14	691	Spacewatch
(499153)	2009 RF_{71}	2009 09 15	691	Spacewatch
(499154)	2009 SM_{2}	2005 06 29	691	Spacewatch
(499155)	2009 SK_{31}	2009 09 16	691	Spacewatch
(499156)	2009 SW_{34}	2009 09 16	691	Spacewatch
(499157)	2009 SC_{36}	2009 09 16	691	Spacewatch
(499158)	2009 SC_{44}	2005 11 25	691	Spacewatch
(499159)	2009 SJ_{46}	2009 09 16	691	Spacewatch
(499160)	2009 SL_{50}	2009 08 16	G96	Spacewatch
(499161)	2009 SR_{50}	2009 09 17	691	Spacewatch
(499162)	2009 SN_{54}	2009 09 17	G96	Mt. Lemmon Survey
(499163)	2009 SK_{61}	2009 09 17	691	Spacewatch
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(499165)	2009 SV_{67}	2009 09 17	691	Spacewatch
(499166)	2009 SL_{69}	2009 09 17	691	Spacewatch
(499167)	2009 SG_{70}	2009 09 17	G96	Mt. Lemmon Survey
(499168)	2009 SB_{74}	2009 09 17	691	Spacewatch
(499169)	2009 SX_{97}	2009 09 20	G96	Mt. Lemmon Survey
(499170)	2009 SP_{98}	2009 09 23	H10	Tzec Maun
(499171)	2009 SD_{103}	2009 09 25	J75	OAM
(499172)	2009 SY_{103}	2009 09 25	J75	OAM
(499173)	2009 SJ_{129}	2009 09 18	691	Spacewatch
(499174)	2009 SG_{132}	2009 09 18	691	Spacewatch
(499175)	2009 SW_{136}	2009 09 18	691	Spacewatch
(499176)	2009 SJ_{148}	2005 09 30	G96	Mt. Lemmon Survey
(499177)	2009 SU_{166}	2009 09 22	691	Spacewatch
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(499198)	2009 SD_{361}	2009 09 28	703	CSS
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(499201)	2009 TX_{4}	2009 09 22	J75	Spacewatch
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(499225)	2009 UQ_{89}	2009 10 25	J47	CSS
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(499231)	2009 UC_{112}	2009 10 25	691	Spacewatch
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(499237)	2009 UM_{131}	2009 09 19	J75	CSS
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(499243)	2009 UA_{143}	2009 10 18	G96	Mt. Lemmon Survey
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(499245)	2009 UX_{147}	2009 10 18	G96	Mt. Lemmon Survey
(499246)	2009 UF_{148}	2009 10 21	G96	Mt. Lemmon Survey
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(499385)	2010 AX_{78}	2010 01 07	703	CSS
(499386)	2010 AQ_{79}	2010 01 05	691	Spacewatch
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(499388)	2010 AD_{89}	2010 01 08	C51	WISE
(499389)	2010 AR_{90}	2004 02 12	C51	Spacewatch
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(499391)	2010 AA_{131}	2010 01 15	C51	WISE
(499392)	2010 BF	2009 12 26	300	Spacewatch
(499393)	2010 BA_2	2010 01 06	G96	CSS
(499394)	2010 BN_2	2009 11 21	143	Mt. Lemmon Survey
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(499396)	2010 BK_{26}	2010 01 18	C51	WISE
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(499398)	2010 BF_{48}	2010 01 20	C51	WISE
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(499401)	2010 BL_{71}	2010 01 23	C51	WISE
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(499413)	2010 CS_{35}	2010 02 10	691	Spacewatch
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(499416)	2010 CE_{56}	2008 09 24	704	Mt. Lemmon Survey
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(499434)	2010 CN_{181}	2010 02 14	F51	Pan-STARRS 1
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(499463)	2010 FB_1	2010 03 12	691	Spacewatch
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(499466)	2010 GE_{101}	2010 04 05	691	Spacewatch
(499467)	2010 GJ_{105}	2010 01 30	691	WISE
(499468)	2010 GY_{117}	2010 04 10	691	Spacewatch
(499469)	2010 GA_{132}	2010 02 01	691	WISE
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(499471)	2010 HO_{23}	2010 04 20	G96	Mt. Lemmon Survey
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(499473)	2010 JA_9	2010 05 01	C51	WISE
(499474)	2010 JG_{37}	2010 05 07	G96	Mt. Lemmon Survey
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(499477)	2010 JG_{48}	2010 04 10	703	Spacewatch
(499478)	2010 JW_{71}	2010 05 04	691	Spacewatch
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(499481)	2010 JF_{109}	2010 02 06	C51	Mt. Lemmon Survey
(499482)	2010 JY_{110}	2010 05 11	G96	Mt. Lemmon Survey
(499483)	2010 JK_{112}	2004 03 16	691	Spacewatch
(499484)	2010 JP_{125}	2010 05 12	C51	WISE
(499485)	2010 JE_{178}	2009 01 30	I41	Mt. Lemmon Survey
(499486)	2010 KB_{89}	2010 02 17	C51	Spacewatch
(499487)	2010 KM_{125}	2010 05 31	C51	WISE
(499488)	2010 LY_{67}	2010 06 07	691	Spacewatch
(499489)	2010 LQ_{93}	2010 06 12	C51	WISE
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(499492)	2010 MZ_{64}	2010 06 25	C51	WISE
(499493)	2010 MY_{65}	2010 06 25	C51	WISE
(499494)	2010 MM_{72}	2010 06 25	C51	WISE
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(499497)	2010 MA_{94}	2010 06 28	C51	WISE
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(499499)	2010 NS_2	2010 07 11	C51	WISE
(499500)	2010 NG_{38}	2010 03 20	C51	Spacewatch
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(499513)	2010 OO_{114}	2010 07 30	C51	WISE
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(499515)	2010 PQ_{24}	2007 10 14	J75	Mt. Lemmon Survey
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(499517)	2010 PX_{24}	2010 08 07	J75	OAM
(499518)	2010 PZ_{54}	2010 02 15	C51	WISE
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(499520)	2010 PQ_{64}	2010 08 10	691	Spacewatch
(499521)	2010 PK_{65}	2010 08 10	691	Spacewatch
(499522)	2010 PL_{66}	2010 08 14	809	Rabinowitz, D. L., *et al.*
(499523)	2010 PV_{74}	2010 08 11	J75	OAM
(499524)	2010 PZ_{76}	2010 08 11	J75	OAM
(499525)	2010 PH_{77}	2010 08 14	691	Spacewatch
(499526)	2010 RO_{11}	2010 09 02	461	Sárneczky, K., Kuli, Z.
(499527)	2010 RO_{16}	2000 12 18	704	Spacewatch
(499528)	2010 RU_{50}	2003 09 21	691	Spacewatch
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(499531)	2010 RK_{71}	2010 09 02	J75	Mt. Lemmon Survey
(499532)	2010 RP_{73}	2003 10 21	703	Spacewatch
(499533)	2010 RF_{76}	2010 06 15	G96	Mt. Lemmon Survey
(499534)	2010 RU_{81}	2010 09 11	691	Spacewatch
(499535)	2010 RJ_{83}	2005 10 25	J04	Spacewatch
(499536)	2010 RW_{88}	2010 09 04	J75	OAM
(499537)	2010 RN_{94}	2007 11 17	G96	Mt. Lemmon Survey
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(499539)	2010 RS_{99}	2003 10 18	691	Spacewatch
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(499541)	2010 RV_{108}	2010 09 11	691	Spacewatch
(499542)	2010 RL_{110}	2010 09 10	J75	OAM
(499543)	2010 RP_{111}	2010 09 11	691	Spacewatch
(499544)	2010 RA_{114}	2010 09 11	691	Spacewatch
(499545)	2010 RX_{115}	2008 02 08	691	Spacewatch
(499546)	2010 RM_{119}	2003 09 18	J75	Spacewatch
(499547)	2010 RP_{124}	2009 03 23	703	Mt. Lemmon Survey
(499548)	2010 RU_{125}	2010 09 12	691	Spacewatch
(499549)	2010 RA_{126}	2010 09 12	691	Spacewatch
(499550)	2010 RF_{127}	2010 08 14	691	Spacewatch
(499551)	2010 RQ_{138}	2003 09 16	G96	Spacewatch
(499552)	2010 RU_{138}	2010 09 11	691	Spacewatch
(499553)	2010 RT_{141}	2008 02 13	691	Mt. Lemmon Survey
(499554)	2010 RM_{143}	2010 09 14	691	Spacewatch
(499555)	2010 RV_{144}	2010 09 14	691	Spacewatch
(499556)	2010 RW_{145}	2010 06 23	691	Mt. Lemmon Survey
(499557)	2010 RG_{146}	2010 09 04	691	Spacewatch
(499558)	2010 RF_{147}	2008 02 09	691	Spacewatch
(499559)	2010 RX_{150}	2010 09 15	691	Spacewatch
(499560)	2010 RR_{154}	2003 11 24	691	LONEOS
(499561)	2010 RD_{155}	2010 09 15	691	Spacewatch
(499562)	2010 RM_{159}	2010 09 02	G96	Mt. Lemmon Survey
(499563)	2010 RA_{175}	2010 09 09	691	Spacewatch
(499564)	2010 RH_{181}	2010 09 03	G96	Mt. Lemmon Survey
(499565)	2010 SC_8	2010 09 04	G96	Mt. Lemmon Survey
(499566)	2010 SE_{19}	2010 09 27	691	Spacewatch
(499567)	2010 SR_{20}	2003 09 17	691	Spacewatch
(499568)	2010 ST_{22}	2010 09 29	G96	Mt. Lemmon Survey
(499569)	2010 SK_{26}	2003 09 19	G96	Spacewatch
(499570)	2010 SR_{27}	2003 10 27	691	Spacewatch
(499571)	2010 SV_{27}	2010 09 29	691	Spacewatch
(499572)	2010 SE_{30}	2010 09 17	J75	Spacewatch
(499573)	2010 SP_{35}	2010 09 15	J75	Spacewatch
(499574)	2010 SM_{36}	2008 02 08	691	Spacewatch
(499575)	2010 TG	2010 09 10	691	Spacewatch
(499576)	2010 TA_1	2007 11 19	H10	Mt. Lemmon Survey
(499577)	2010 TB_1	2010 09 15	691	Spacewatch
(499578)	2010 TR_2	2010 10 02	J75	OAM
(499579)	2010 TL_{13}	2010 10 03	691	Spacewatch
(499580)	2010 TT_{15}	2010 10 03	691	Spacewatch

(499581)	2010 TK_{17}	2007 12 31	691	Mt. Lemmon Survey
(499582)	2010 TH_{19}	2010 10 07	703	CSS
(499583)	2010 TG_{35}	2010 10 02	704	LINEAR
(499584)	2010 TH_{36}	2003 10 01	691	Spacewatch
(499585)	2010 TF_{42}	2010 10 02	691	Spacewatch
(499586)	2010 TB_{43}	2003 09 28	691	Spacewatch
(499587)	2010 TX_{49}	2008 01 30	691	Mt. Lemmon Survey
(499588)	2010 TX_{55}	2010 10 02	704	LINEAR
(499589)	2010 TV_{58}	2010 09 16	A14	Mt. Lemmon Survey
(499590)	2010 TS_{60}	2010 09 19	691	Spacewatch
(499591)	2010 TA_{65}	2010 09 19	G96	Spacewatch
(499592)	2010 TV_{65}	2003 10 18	691	Spacewatch
(499593)	2010 TL_{75}	2010 10 08	691	Spacewatch
(499594)	2010 TQ_{87}	2010 09 04	G96	Spacewatch
(499595)	2010 TM_{92}	2010 09 18	703	Mt. Lemmon Survey
(499596)	2010 TL_{94}	2003 10 20	G96	Spacewatch
(499597)	2010 TD_{99}	2010 09 04	691	Spacewatch
(499598)	2010 TT_{114}	2010 09 10	691	Spacewatch
(499599)	2010 TV_{115}	2010 10 09	703	CSS
(499600)	2010 TS_{120}	2003 09 17	G96	Spacewatch
(499601)	2010 TF_{142}	2003 11 20	703	LINEAR
(499602)	2010 TK_{153}	2010 10 09	703	CSS
(499603)	2010 TD_{157}	2010 10 10	691	Spacewatch
(499604)	2010 TL_{163}	2010 09 17	691	Spacewatch
(499605)	2010 TK_{165}	2003 12 01	703	Spacewatch
(499606)	2010 TK_{168}	2010 09 17	J04	Mt. Lemmon Survey
(499607)	2010 TV_{170}	2003 10 23	703	Spacewatch
(499608)	2010 TA_{172}	2006 09 30	621	Mt. Lemmon Survey
(499609)	2010 TF_{175}	2010 10 07	703	CSS
(499610)	2010 TK_{184}	2003 10 02	I41	Spacewatch
(499611)	2010 TD_{187}	1999 09 07	I41	LINEAR
(499612)	2010 UF_{6}	2010 10 17	G96	Mt. Lemmon Survey
(499613)	2010 UP_{15}	2006 06 18	703	Spacewatch
(499614)	2010 US_{24}	2003 11 30	G96	Spacewatch
(499615)	2010 UT_{28}	2006 09 18	G96	LONEOS
(499616)	2010 UD_{36}	2010 10 29	G96	Mt. Lemmon Survey
(499617)	2010 UB_{41}	2006 09 17	461	Spacewatch
(499618)	2010 UL_{50}	2006 09 15	291	Spacewatch
(499619)	2010 UC_{52}	2010 07 24	G96	WISE
(499620)	2010 UG_{53}	2010 10 11	691	Mt. Lemmon Survey
(499621)	2010 UL_{55}	2006 09 17	691	Spacewatch
(499622)	2010 UY_{55}	2008 02 12	703	Spacewatch
(499623)	2010 UO_{65}	2010 10 31	691	Spacewatch
(499624)	2010 US_{80}	2010 10 14	461	Mt. Lemmon Survey
(499625)	2010 UD_{83}	2010 10 19	703	Mt. Lemmon Survey
(499626)	2010 UN_{83}	2009 07 27	G96	Spacewatch
(499627)	2010 UO_{84}	2010 10 30	691	Spacewatch
(499628)	2010 UQ_{85}	2008 01 12	G96	Mt. Lemmon Survey
(499629)	2010 UU_{87}	2010 10 02	G96	OAM
(499630)	2010 UT_{89}	2010 09 17	G96	Spacewatch
(499631)	2010 US_{98}	2006 08 21	G96	Spacewatch
(499632)	2010 UW_{98}	2006 11 16	G96	Spacewatch
(499633)	2010 UO_{99}	1997 02 15	691	Spacewatch
(499634)	2010 US_{107}	2010 10 13	I41	Mt. Lemmon Survey
(499635)	2010 VD_{15}	2010 10 11	300	Mt. Lemmon Survey
(499636)	2010 VS_{15}	2010 10 17	G96	Mt. Lemmon Survey
(499637)	2010 VP_{20}	2010 10 02	703	Spacewatch
(499638)	2010 VP_{22}	2010 10 28	691	Spacewatch
(499639)	2010 VQ_{24}	2010 09 18	703	Mt. Lemmon Survey
(499640)	2010 VL_{26}	2010 11 01	691	Spacewatch
(499641)	2010 VS_{32}	2009 04 18	G96	Mt. Lemmon Survey
(499642)	2010 VR_{48}	2010 11 02	691	Spacewatch
(499643)	2010 VB_{49}	2006 10 16	691	Mt. Lemmon Survey
(499644)	2010 VG_{53}	2010 09 11	G96	Mt. Lemmon Survey
(499645)	2010 VZ_{57}	2010 10 30	J75	Spacewatch
(499646)	2010 VW_{61}	2010 11 05	G96	Mt. Lemmon Survey
(499647)	2010 VP_{67}	2008 02 10	703	Spacewatch
(499648)	2010 VC_{71}	2010 11 06	703	CSS
(499649)	2010 VA_{78}	2010 11 03	G96	Mt. Lemmon Survey
(499650)	2010 VM_{83}	2010 10 14	691	Mt. Lemmon Survey
(499651)	2010 VL_{87}	2006 09 14	691	CSS
(499652)	2010 VN_{88}	2010 11 06	691	Spacewatch
(499653)	2010 VX_{96}	2010 11 02	703	Spacewatch
(499654)	2010 VY_{96}	2010 09 17	703	Mt. Lemmon Survey
(499655)	2010 VL_{97}	2010 09 11	703	Mt. Lemmon Survey
(499656)	2010 VP_{97}	1999 11 12	703	LINEAR
(499657)	2010 VK_{105}	2006 09 17	G96	Spacewatch
(499658)	2010 VU_{108}	2010 10 12	G96	Mt. Lemmon Survey
(499659)	2010 VY_{114}	2010 10 30	G96	Mt. Lemmon Survey
(499660)	2010 VC_{119}	2008 02 28	691	Spacewatch
(499661)	2010 VE_{124}	2010 09 11	G96	Mt. Lemmon Survey
(499662)	2010 VM_{127}	1997 12 06	G96	ODAS
(499663)	2010 VT_{133}	2010 11 01	703	Spacewatch
(499664)	2010 VD_{135}	2010 11 05	291	Spacewatch
(499665)	2010 VK_{142}	2010 11 06	G96	Mt. Lemmon Survey
(499666)	2010 VD_{150}	2008 02 18	G96	Mt. Lemmon Survey
(499667)	2010 VZ_{156}	2010 10 30	691	Spacewatch
(499668)	2010 VO_{161}	2006 08 28	691	CSS
(499669)	2010 VD_{164}	1999 10 30	691	Spacewatch
(499670)	2010 VQ_{165}	2008 02 10	703	Spacewatch
(499671)	2010 VT_{165}	2010 10 14	691	Mt. Lemmon Survey
(499672)	2010 VK_{188}	1981 10 25	704	Bus, S. J.
(499673)	2010 VD_{195}	2008 02 10	703	Spacewatch
(499674)	2010 VG_{195}	2003 12 22	703	Spacewatch
(499675)	2010 VC_{200}	2010 11 06	703	CSS
(499676)	2010 VF_{203}	2010 10 09	I41	CSS
(499677)	2010 VT_{204}	2010 09 17	I41	Mt. Lemmon Survey
(499678)	2010 VE_{205}	1999 10 09	I41	CSS
(499679)	2010 VV_{208}	2010 09 17	I41	Mt. Lemmon Survey
(499680)	2010 VF_{211}	2006 09 14	I41	Spacewatch
(499681)	2010 VM_{214}	2003 10 22	I41	Spacewatch
(499682)	2010 VO_{214}	2004 02 17	I41	Spacewatch
(499683)	2010 VZ_{217}	2010 10 17	I41	Mt. Lemmon Survey
(499684)	2010 VS_{219}	2005 04 07	I41	Mt. Lemmon Survey

(499685)	2010 WA_{16}	2010 11 08	G96	Spacewatch
(499686)	2010 WU_{22}	2010 11 13	G96	Spacewatch
(499687)	2010 WJ_{24}	2006 11 24	G96	Mt. Lemmon Survey
(499688)	2010 WZ_{28}	2010 11 10	G96	Mt. Lemmon Survey
(499689)	2010 WL_{45}	2006 09 27	G96	Spacewatch
(499690)	2010 WG_{48}	2006 10 19	G96	Spacewatch
(499691)	2010 WP_{49}	2006 10 28	G96	Mt. Lemmon Survey
(499692)	2010 WO_{73}	2010 11 30	G96	Mt. Lemmon Survey
(499693)	2010 XX_{12}	2004 03 18	H15	Spacewatch
(499694)	2010 XK_{33}	2010 11 12	G96	Mt. Lemmon Survey
(499695)	2010 XN_{53}	2010 10 13	G96	Mt. Lemmon Survey
(499696)	2010 XA_{77}	2010 12 03	G96	Mt. Lemmon Survey
(499697)	2010 XS_{88}	2010 12 03	I41	Mt. Lemmon Survey
(499698)	2010 YP_{3}	2010 11 05	703	Mt. Lemmon Survey
(499699)	2010 YG_{5}	2006 11 21	G96	Mt. Lemmon Survey
(499700)	2011 AH	2006 12 15	H15	Mt. Lemmon Survey
(499701)	2011 AR	2010 12 14	H15	Mt. Lemmon Survey
(499702)	2011 AB_{2}	2010 12 08	G96	Spacewatch
(499703)	2011 AA_{8}	2006 12 10	G96	Spacewatch
(499704)	2011 AM_{20}	2011 01 08	703	CSS
(499705)	2011 AA_{21}	2011 01 09	G96	Mt. Lemmon Survey
(499706)	2011 AZ_{24}	2010 11 11	703	Mt. Lemmon Survey
(499707)	2011 AH_{31}	2011 01 09	691	Spacewatch
(499708)	2011 AN_{35}	2005 09 14	691	Spacewatch
(499709)	2011 AN_{42}	2010 12 08	G96	Mt. Lemmon Survey
(499710)	2011 AV_{43}	2009 11 23	691	Mt. Lemmon Survey
(499711)	2011 AJ_{56}	2011 01 10	691	Spacewatch
(499712)	2011 AD_{59}	2006 11 20	G96	Spacewatch
(499713)	2011 AU_{61}	2010 12 13	691	Mt. Lemmon Survey
(499714)	2011 AJ_{65}	2007 02 06	691	Spacewatch
(499715)	2011 AA_{66}	2006 12 27	691	Mt. Lemmon Survey
(499716)	2011 AQ_{73}	2010 12 25	G96	Mt. Lemmon Survey
(499717)	2011 AS_{75}	2011 01 11	691	Spacewatch
(499718)	2011 AL_{77}	2006 12 25	703	LONEOS
(499719)	2011 BM_{1}	2010 11 07	G96	Mt. Lemmon Survey
(499720)	2011 BV_{3}	2011 01 16	G96	Mt. Lemmon Survey
(499721)	2011 BQ_{6}	2006 11 21	G96	Mt. Lemmon Survey
(499722)	2011 BE_{7}	2011 01 16	G96	Mt. Lemmon Survey
(499723)	2011 BG_{7}	2010 12 05	G96	Mt. Lemmon Survey
(499724)	2011 BJ_{9}	2011 01 16	G96	Mt. Lemmon Survey
(499725)	2011 BS_{10}	2010 12 08	G96	Mt. Lemmon Survey
(499726)	2011 BA_{17}	2010 12 10	691	Mt. Lemmon Survey
(499727)	2011 BA_{18}	2011 01 25	691	Spacewatch
(499728)	2011 BK_{18}	2011 01 14	291	Spacewatch
(499729)	2011 BD_{20}	2011 01 11	G96	Mt. Lemmon Survey
(499730)	2011 BJ_{22}	2005 12 02	G96	Mt. Lemmon Survey
(499731)	2011 BN_{25}	2010 12 08	G96	Mt. Lemmon Survey
(499732)	2011 BT_{25}	2011 01 23	G96	Mt. Lemmon Survey
(499733)	2011 BE_{29}	2011 01 26	G96	Mt. Lemmon Survey
(499734)	2011 BM_{29}	2010 12 09	G96	Mt. Lemmon Survey
(499735)	2011 BA_{36}	2011 01 13	G96	Spacewatch
(499736)	2011 BO_{39}	2011 01 03	G96	CSS
(499737)	2011 BN_{46}	2011 01 30	461	Pan-STARRS 1
(499738)	2011 BC_{59}	2011 01 30	G96	Mt. Lemmon Survey
(499739)	2011 BV_{61}	2011 01 26	691	Spacewatch
(499740)	2011 BJ_{64}	2011 01 08	691	Mt. Lemmon Survey
(499741)	2011 BG_{72}	2011 01 30	F51	Pan-STARRS 1
(499742)	2011 BW_{72}	2011 01 30	F51	Pan-STARRS 1
(499743)	2011 BQ_{74}	2011 01 30	F51	Pan-STARRS 1
(499744)	2011 BY_{76}	2011 01 30	F51	Pan-STARRS 1
(499745)	2011 BX_{80}	2010 12 08	G96	Mt. Lemmon Survey
(499746)	2011 BA_{82}	2011 01 16	G96	Mt. Lemmon Survey
(499747)	2011 BR_{91}	2007 03 09	G96	Spacewatch
(499748)	2011 BU_{91}	2002 12 05	G96	LINEAR
(499749)	2011 BF_{93}	2011 01 28	G96	Mt. Lemmon Survey
(499750)	2011 BW_{96}	2010 12 08	G96	Mt. Lemmon Survey
(499751)	2011 BY_{99}	2011 01 11	F51	Mt. Lemmon Survey
(499752)	2011 BA_{100}	2011 01 30	F51	Pan-STARRS 1
(499753)	2011 BP_{100}	2011 01 27	F51	CSS
(499754)	2011 BM_{101}	2007 01 10	F51	Spacewatch
(499755)	2011 BA_{105}	2009 08 26	G96	CSS
(499756)	2011 BK_{109}	2011 01 30	F51	Pan-STARRS 1
(499757)	2011 BR_{111}	2007 02 17	F51	Mt. Lemmon Survey
(499758)	2011 BC_{112}	2011 01 02	F51	Mt. Lemmon Survey
(499759)	2011 BB_{118}	2011 01 25	G96	Mt. Lemmon Survey
(499760)	2011 BM_{144}	2011 01 14	G96	Spacewatch
(499761)	2011 BH_{157}	2007 01 27	G96	Mt. Lemmon Survey
(499762)	2011 BK_{157}	2011 01 14	691	Spacewatch
(499763)	2011 CJ_{2}	2008 04 14	114	Mt. Lemmon Survey
(499764)	2011 CJ_{3}	2006 11 24	703	Mt. Lemmon Survey
(499765)	2011 CJ_{6}	2011 01 30	291	Pan-STARRS 1
(499766)	2011 CU_{8}	2011 01 14	703	Spacewatch
(499767)	2011 CV_{10}	2011 01 30	703	Pan-STARRS 1
(499768)	2011 CC_{13}	2011 01 11	G96	Spacewatch
(499769)	2011 CG_{13}	2011 01 30	G96	Pan-STARRS 1
(499770)	2011 CH_{13}	2011 01 11	G96	Spacewatch
(499771)	2011 CM_{18}	2006 11 13	H15	CSS
(499772)	2011 CQ_{21}	2011 01 30	G96	Pan-STARRS 1
(499773)	2011 CE_{24}	2011 02 07	G96	Mt. Lemmon Survey
(499774)	2011 CZ_{24}	2011 01 11	H15	Spacewatch
(499775)	2011 CZ_{27}	2005 10 28	703	Mt. Lemmon Survey
(499776)	2011 CZ_{31}	2011 01 28	106	Mt. Lemmon Survey
(499777)	2011 CR_{38}	2011 01 30	G96	Pan-STARRS 1
(499778)	2011 CT_{38}	2007 03 12	G96	Mt. Lemmon Survey
(499779)	2011 CE_{39}	2011 01 30	703	Pan-STARRS 1
(499780)	2011 CS_{39}	2006 11 14	291	Mt. Lemmon Survey
(499781)	2011 CO_{42}	2005 12 28	G96	Spacewatch
(499782)	2011 CE_{49}	2007 03 15	703	Mt. Lemmon Survey
(499783)	2011 CH_{49}	2011 01 30	703	Mt. Lemmon Survey
(499784)	2011 CA_{53}	2011 01 30	G96	Pan-STARRS 1
(499785)	2011 CC_{53}	2011 01 30	G96	Pan-STARRS 1
(499786)	2011 CE_{53}	2011 02 07	G96	Mt. Lemmon Survey
(499787)	2011 CF_{53}	2011 01 26	G96	Spacewatch
(499788)	2011 CL_{54}	2005 10 27	G96	Spacewatch

(499789)	2011 CV_{54}	2009 11 25	G96	Mt. Lemmon Survey
(499790)	2011 CF_{56}	2007 03 14	G96	Spacewatch
(499791)	2011 CJ_{58}	2011 01 30	G96	Pan-STARRS 1
(499792)	2011 CK_{60}	2011 01 27	G96	Mt. Lemmon Survey
(499793)	2011 CE_{70}	2010 12 09	704	Mt. Lemmon Survey
(499794)	2011 CB_{71}	2011 01 30	A77	Spacewatch
(499795)	2011 CT_{72}	2011 01 13	703	CSS
(499796)	2011 CX_{76}	2011 01 30	G96	Pan-STARRS 1
(499797)	2011 CD_{78}	2011 02 11	G96	Mt. Lemmon Survey
(499798)	2011 CL_{78}	2011 01 30	F51	Pan-STARRS 1
(499799)	2011 CY_{84}	2007 02 21	F51	Spacewatch
(499800)	2011 CD_{85}	2011 01 28	F51	Spacewatch
(499801)	2011 CC_{86}	2011 01 11	F51	Mt. Lemmon Survey
(499802)	2011 CX_{87}	2011 01 30	F51	Pan-STARRS 1
(499803)	2011 CE_{88}	2011 01 25	F51	Spacewatch
(499804)	2011 CX_{88}	2011 02 04	F51	Pan-STARRS 1
(499805)	2011 CB_{90}	2007 03 20	F51	Mt. Lemmon Survey
(499806)	2011 CZ_{90}	2011 01 30	F51	Pan-STARRS 1
(499807)	2011 CS_{91}	2011 01 15	F51	Mt. Lemmon Survey
(499808)	2011 CD_{101}	2010 02 01	F51	WISE
(499809)	2011 CE_{105}	2007 02 21	F51	Mt. Lemmon Survey
(499810)	2011 CT_{107}	2011 01 30	F51	Pan-STARRS 1
(499811)	2011 CW_{107}	2011 01 30	F51	Pan-STARRS 1
(499812)	2011 CD_{108}	2007 03 15	F51	Spacewatch
(499813)	2011 CJ_{110}	2005 12 30	F51	Spacewatch
(499814)	2011 CT_{112}	2011 01 30	F51	Pan-STARRS 1
(499815)	2011 CR_{115}	2011 01 30	F51	Pan-STARRS 1
(499816)	2011 DP_{7}	2011 02 25	G96	Mt. Lemmon Survey
(499817)	2011 DL_{8}	2011 02 22	691	Spacewatch
(499818)	2011 DX_{9}	2011 02 22	691	Spacewatch
(499819)	2011 DR_{10}	2011 01 28	691	Spacewatch
(499820)	2011 DF_{11}	2011 02 25	J75	OAM
(499821)	2011 DK_{11}	2011 02 25	703	CSS
(499822)	2011 DT_{13}	2007 03 13	G96	Mt. Lemmon Survey
(499823)	2011 DN_{14}	2011 01 30	G96	Pan-STARRS 1
(499824)	2011 DE_{19}	2010 11 03	J75	Spacewatch
(499825)	2011 DB_{22}	2011 02 10	703	CSS
(499826)	2011 DS_{22}	2007 03 14	691	Mt. Lemmon Survey
(499827)	2011 DW_{23}	2011 02 26	691	Spacewatch
(499828)	2011 DY_{24}	2011 01 29	G96	Mt. Lemmon Survey
(499829)	2011 DE_{28}	2007 03 20	G96	Spacewatch
(499830)	2011 DS_{30}	2010 12 10	G98	Mt. Lemmon Survey
(499831)	2011 DK_{31}	2011 01 02	G96	Mt. Lemmon Survey
(499832)	2011 DH_{36}	2011 02 25	G96	Mt. Lemmon Survey
(499833)	2011 DV_{40}	2011 02 25	G96	Mt. Lemmon Survey
(499834)	2011 DC_{41}	2011 02 25	G96	Mt. Lemmon Survey
(499835)	2011 DE_{46}	2007 04 25	G96	Spacewatch
(499836)	2011 DY_{47}	2009 10 22	703	Mt. Lemmon Survey
(499837)	2011 EG	2007 04 20	H36	Mt. Lemmon Survey
(499838)	2011 EQ_{2}	2007 02 21	G96	Spacewatch
(499839)	2011 EC_{10}	2011 01 30	G96	Pan-STARRS 1
(499840)	2011 EZ_{11}	2003 01 27	703	LINEAR
(499841)	2011 EJ_{13}	2007 03 09	703	Spacewatch
(499842)	2011 EN_{14}	2010 02 20	621	WISE
(499843)	2011 ER_{23}	2011 01 29	691	Spacewatch
(499844)	2011 ES_{23}	2010 01 16	691	WISE
(499845)	2011 ET_{23}	2007 03 15	691	Mt. Lemmon Survey
(499846)	2011 EX_{25}	2011 02 25	291	Spacewatch
(499847)	2011 EE_{27}	2011 03 06	691	Spacewatch
(499848)	2011 EH_{29}	2011 01 30	G96	Pan-STARRS 1
(499849)	2011 EA_{30}	2011 01 11	704	Mt. Lemmon Survey
(499850)	2011 EZ_{31}	2011 01 29	A50	Spacewatch
(499851)	2011 EZ_{34}	2007 03 14	G96	Mt. Lemmon Survey
(499852)	2011 ER_{42}	2007 04 26	691	Mt. Lemmon Survey
(499853)	2011 EF_{43}	2005 12 26	703	Spacewatch
(499854)	2011 EW_{43}	2011 02 23	G96	Spacewatch
(499855)	2011 ET_{58}	2011 03 12	G96	Mt. Lemmon Survey
(499856)	2011 ET_{67}	2011 02 08	691	Mt. Lemmon Survey
(499857)	2011 EB_{69}	2011 03 10	691	Spacewatch
(499858)	2011 EH_{70}	2011 03 10	691	Spacewatch
(499859)	2011 EH_{73}	2011 03 02	691	Spacewatch
(499860)	2011 EE_{74}	2011 03 07	G96	Siding Spring Survey
(499861)	2011 EL_{76}	2011 02 25	691	Spacewatch
(499862)	2011 EU_{76}	2011 03 07	D29	PMO NEO Survey Program
(499863)	2011 EZ_{84}	2009 09 28	691	Mt. Lemmon Survey
(499864)	2011 EC_{85}	2011 02 25	F51	Spacewatch
(499865)	2011 FX_{4}	2011 03 11	461	CSS
(499866)	2011 FS_{11}	2008 09 23	691	Mt. Lemmon Survey
(499867)	2011 FS_{12}	2011 01 14	G96	Mt. Lemmon Survey
(499868)	2011 FW_{17}	2011 02 25	691	Spacewatch
(499869)	2011 FK_{18}	2006 01 30	F51	Spacewatch
(499870)	2011 FP_{20}	2011 03 01	G96	Mt. Lemmon Survey
(499871)	2011 FV_{20}	2008 06 30	G96	Spacewatch
(499872)	2011 FR_{23}	2011 01 14	G96	Mt. Lemmon Survey
(499873)	2011 FD_{24}	2007 03 15	G96	Mt. Lemmon Survey
(499874)	2011 FK_{24}	2007 04 15	G96	Spacewatch
(499875)	2011 FT_{27}	2011 02 10	703	Mt. Lemmon Survey
(499876)	2011 FO_{30}	2011 03 11	G96	Spacewatch
(499877)	2011 FY_{30}	2011 03 27	G96	Mt. Lemmon Survey
(499878)	2011 FF_{40}	2011 03 13	G96	Spacewatch
(499879)	2011 FJ_{46}	2006 01 04	G68	Spacewatch
(499880)	2011 FQ_{51}	2011 01 10	G96	Mt. Lemmon Survey
(499881)	2011 FO_{55}	2006 04 25	703	Spacewatch
(499882)	2011 FU_{67}	2011 03 27	G96	Mt. Lemmon Survey
(499883)	2011 FL_{73}	2011 02 25	G96	Mt. Lemmon Survey
(499884)	2011 FJ_{78}	1999 10 06	G96	Spacewatch
(499885)	2011 FJ_{87}	2011 03 24	F51	CSS
(499886)	2011 FH_{89}	2011 03 11	G96	CSS
(499887)	2011 FM_{90}	2004 10 05	G96	Spacewatch
(499888)	2011 FD_{102}	2011 01 08	F51	Mt. Lemmon Survey
(499889)	2011 FT_{102}	2011 03 13	F51	Mt. Lemmon Survey
(499890)	2011 FF_{121}	2011 03 14	F51	Mt. Lemmon Survey
(499891)	2011 FY_{126}	2010 01 22	G96	WISE
(499892)	2011 FE_{130}	2010 01 21	703	WISE

(499893)	2011 FH_{130}	2005 12 30	703	Spacewatch
(499894)	2011 FC_{134}	2011 02 25	G96	Mt. Lemmon Survey
(499895)	2011 FV_{137}	2008 10 01	G96	Mt. Lemmon Survey
(499896)	2011 FN_{147}	2011 03 26	F51	Pan-STARRS 1
(499897)	2011 FW_{149}	2007 09 10	G96	Spacewatch
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(499904)	2011 GG_{27}	2008 09 04	F51	Spacewatch
(499905)	2011 GG_{32}	2011 03 28	691	Spacewatch
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(499914)	2011 GC_{75}	2011 03 02	G96	Spacewatch
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(499928)	2011 HA_{26}	2011 04 07	F51	Spacewatch
(499929)	2011 HQ_{26}	2005 02 04	F51	Spacewatch
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(499934)	2011 HW_{41}	2011 03 31	G96	Pan-STARRS 1
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(499993)	2011 OJ_{34}	2010 06 24	F51	WISE
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(500007)	2011 QT_{8}	2011 08 20	F51	Pan-STARRS 1
(500008)	2011 QB_{13}	2011 06 12	704	Mt. Lemmon Survey
(500009)	2011 QQ_{17}	2005 07 06	F51	Siding Spring Survey
(500010)	2011 QY_{19}	2006 10 19	F51	Mt. Lemmon Survey
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(500015)	2011 QZ_{48}	2000 10 01	J75	LINEAR
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(500212)	2012 HD_{34}	2012 03 27	F51	Spacewatch
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(500223)	2012 HM_{69}	2012 04 22	691	Spacewatch
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(500314)	2012 RX_{21}	2007 10 17	703	Mt. Lemmon Survey
(500315)	2012 RB_{22}	2009 01 20	J04	CSS
(500316)	2012 RS_{23}	2006 08 18	691	Spacewatch
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(500318)	2012 RS_{28}	2007 10 07	J75	CSS
(500319)	2012 RV_{31}	2012 08 25	703	Pan-STARRS 1
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(500624)	2012 UK_{154}	2006 09 17	G96	Spacewatch
(500625)	2012 UL_{154}	2012 10 22	G96	Mt. Lemmon Survey
(500626)	2012 UE_{157}	2009 02 03	F51	Spacewatch
(500627)	2012 UO_{157}	2012 10 17	F51	Mt. Lemmon Survey
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(500629)	2012 UP_{163}	2012 10 13	F51	Spacewatch
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(500632)	2012 UZ_{166}	2009 02 21	G96	OAM
(500633)	2012 UK_{169}	2001 11 17	G96	LINEAR
(500634)	2012 UU_{171}	2006 05 19	926	Mt. Lemmon Survey
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(500636)	2012 VH	2012 10 06	F51	Pan-STARRS 1
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(500656)	2012 VG_{19}	2007 11 08	G96	Mt. Lemmon Survey
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(500662)	2012 VJ_{27}	2006 09 17	G96	Spacewatch
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(500668)	2012 VL_{39}	2006 08 21	691	Spacewatch
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(500672)	2012 VM_{43}	2011 08 01	926	Pan-STARRS 1
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(500674)	2012 VY_{47}	2007 12 04	F51	Mt. Lemmon Survey
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(500676)	2012 VX_{60}	2007 12 18	F51	Spacewatch
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(500679)	2012 VE_{63}	2007 10 20	G96	Mt. Lemmon Survey
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(500684)	2012 VH_{81}	2009 03 27	C32	Mt. Lemmon Survey
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(500689)	2012 VB_{92}	2011 08 26	691	Pan-STARRS 1
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(500705)	2012 WA_{12}	2012 10 26	691	Mt. Lemmon Survey
(500706)	2012 WE_{14}	2007 12 28	691	Spacewatch
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(500711)	2012 XJ	2012 12 03	G96	Mt. Lemmon Survey
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(500718)	2012 XY_{22}	2012 10 27	G96	Mt. Lemmon Survey
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(500720)	2012 XL_{30}	2006 10 04	G96	Mt. Lemmon Survey
(500721)	2012 XA_{34}	2006 09 28	G96	Spacewatch
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(500723)	2012 XS_{34}	2006 09 25	G96	Spacewatch
(500724)	2012 XS_{40}	2006 11 14	G96	Mt. Lemmon Survey

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(500728)	2012 XZ_{57}	2006 10 02	G96	Mt. Lemmon Survey
(500729)	2012 XZ_{69}	2012 12 05	G96	Mt. Lemmon Survey
(500730)	2012 XG_{72}	2012 11 07	G96	Pan-STARRS 1
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(500734)	2012 XB_{116}	2012 09 23	703	Mt. Lemmon Survey
(500735)	2012 XA_{123}	2006 09 14	F51	Spacewatch
(500736)	2012 XS_{127}	2006 08 29	F51	Spacewatch
(500737)	2012 XY_{128}	1996 11 05	691	Spacewatch
(500738)	2012 XK_{129}	2001 12 14	926	Spacewatch
(500739)	2012 XM_{133}	2006 11 22	704	CSS
(500740)	2012 XJ_{140}	2008 01 15	G96	Mt. Lemmon Survey
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(500742)	2012 XE_{144}	2012 12 09	F51	Pan-STARRS 1
(500743)	2012 YE_{7}	2012 12 29	F51	Pan-STARRS 1
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(500747)	2013 AU_{47}	2006 11 24	G96	Spacewatch
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(500767)	2013 CO_{15}	2006 01 23	691	Spacewatch
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(500771)	2013 CT_{115}	2013 02 12	F51	Pan-STARRS 1
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(500774)	2013 CK_{186}	2011 08 31	F51	Pan-STARRS 1
(500775)	2013 CP_{191}	2006 10 28	F51	Mt. Lemmon Survey
(500776)	2013 CV_{192}	2006 01 25	691	Spacewatch
(500777)	2013 DM_{12}	2007 09 02	703	Mt. Lemmon Survey
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(500779)	2013 EP_{10}	2006 11 25	926	Siding Spring Survey
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(500784)	2013 EG_{42}	2013 03 06	F51	Pan-STARRS 1
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(500788)	2013 EP_{109}	2006 02 04	703	CSS
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(500804)	2013 GH_{21}	2006 02 03	G32	Spacewatch
(500805)	2013 GR_{24}	2005 09 29	703	Spacewatch
(500806)	2013 GC_{27}	2009 01 16	I41	Spacewatch
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(500808)	2013 GP_{37}	2013 03 16	F51	Spacewatch
(500809)	2013 GT_{39}	2010 07 13	J43	OAM
(500810)	2013 GA_{43}	2006 04 07	G96	Spacewatch
(500811)	2013 GM_{63}	2013 03 13	F51	Spacewatch
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(500821)	2013 GG_{110}	2013 04 10	F51	Pan-STARRS 1
(500822)	2013 GX_{113}	2013 03 13	G96	Pan-STARRS 1
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(500824)	2013 GU_{126}	2013 04 13	691	Spacewatch
(500825)	2013 GM_{127}	2007 09 10	F51	Spacewatch
(500826)	2013 GP_{130}	2013 01 21	926	Pan-STARRS 1
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(500828)	2013 GR_{136}	2013 04 04	568	Outer Solar System Origins Survey

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(500831)	2013 GV_{136}	2013 04 09	568	Outer Solar System Origins Survey
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(500843)	2013 HQ_{52}	2004 11 11	W84	Spacewatch
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(500845)	2013 HK_{61}	2011 10 24	W84	Pan-STARRS 1
(500846)	2013 HN_{61}	2006 01 31	W84	Spacewatch
(500847)	2013 HC_{62}	2013 04 09	W84	Pan-STARRS 1
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(500850)	2013 HB_{81}	2006 05 22	W84	Spacewatch
(500851)	2013 HQ_{84}	2007 10 10	W84	Mt. Lemmon Survey
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(500853)	2013 HT_{120}	2013 04 10	W84	Pan-STARRS 1
(500854)	2013 HP_{128}	2011 10 24	W84	Pan-STARRS 1
(500855)	2013 HS_{140}	2008 11 01	W84	Mt. Lemmon Survey
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(500857)	2013 JO_{2}	2009 02 19	G32	Spacewatch
(500858)	2013 JJ_{3}	2013 04 09	G96	Pan-STARRS 1
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(500864)	2013 JC_{25}	2013 04 10	691	Spacewatch
(500865)	2013 JT_{26}	2013 05 09	G32	Siding Spring Survey
(500866)	2013 JJ_{29}	2010 10 02	F51	Spacewatch
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(500872)	2013 JJ_{53}	2010 09 14	F51	OAM
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(500874)	2013 JT_{58}	2013 04 13	F51	Pan-STARRS 1
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(500880)	2013 JJ_{64}	2013 05 07	568	Outer Solar System Origins Survey
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(500896)	2013 LG_{21}	2013 04 15	691	Pan-STARRS 1
(500897)	2013 LV_{27}	2009 03 03	691	Spacewatch
(500898)	2013 LD_{28}	2006 12 14	G32	Spacewatch
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(500904)	2013 ND	2010 11 04	G32	Mt. Lemmon Survey
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(500906)	2013 NS_{5}	2009 04 30	F51	Spacewatch
(500907)	2013 NC_{6}	2010 11 08	G32	Mt. Lemmon Survey
(500908)	2013 NR_{18}	2006 08 28	F51	Spacewatch
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(500917)	2013 PM_{11}	2009 10 14	I41	Mt. Lemmon Survey
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(500919)	2013 PJ_{25}	2013 06 20	703	Pan-STARRS 1
(500920)	2013 PW_{25}	2009 08 26	I41	CSS
(500921)	2013 PY_{25}	2005 12 25	I41	Mt. Lemmon Survey
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(500928)	2013 PO_{39}	2013 08 09	691	Spacewatch
(500929)	2013 PM_{45}	2010 12 05	F51	Mt. Lemmon Survey
(500930)	2013 PR_{47}	2005 09 29	691	Spacewatch
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(500932)	2013 PZ_{50}	2012 04 24	F51	Spacewatch

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(500936)	2013 PU_{60}	2013 07 15	F51	Pan-STARRS 1
(500937)	2013 PX_{63}	2013 07 15	F51	Pan-STARRS 1
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(500939)	2013 PR_{69}	2006 11 21	106	Mt. Lemmon Survey
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(500942)	2013 QK_{2}	2001 09 20	F51	LINEAR
(500943)	2013 QZ_{4}	2009 09 25	F51	CSS
(500944)	2013 QS_{5}	2009 07 19	F51	OAM
(500945)	2013 QC_{6}	2005 12 31	I41	Spacewatch
(500946)	2013 QU_{6}	2013 06 20	F51	Pan-STARRS 1
(500947)	2013 QP_{9}	2005 10 28	F51	Spacewatch
(500948)	2013 QN_{12}	2011 01 30	Q62	Pan-STARRS 1
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(500950)	2013 QT_{15}	2013 08 28	F51	Pan-STARRS 1
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(500955)	2013 QQ_{32}	2013 08 26	F51	Pan-STARRS 1
(500956)	2013 QR_{33}	2013 08 12	F51	Pan-STARRS 1
(500957)	2013 QX_{35}	2011 02 05	F51	Pan-STARRS 1
(500958)	2013 QG_{37}	2009 08 18	F51	Spacewatch
(500959)	2013 QD_{42}	2011 01 30	G96	Pan-STARRS 1
(500960)	2013 QY_{42}	2005 12 22	I41	CSS
(500961)	2013 QP_{44}	2012 02 24	F51	Pan-STARRS 1
(500962)	2013 QT_{50}	2009 07 27	G96	Spacewatch
(500963)	2013 QF_{51}	2005 08 30	G96	Spacewatch
(500964)	2013 QX_{56}	2009 11 08	F51	CSS
(500965)	2013 QE_{57}	2009 09 19	F51	Spacewatch
(500966)	2013 QD_{61}	2005 05 04	F51	CSS
(500967)	2013 QS_{64}	2013 06 21	F51	Mt. Lemmon Survey
(500968)	2013 QF_{67}	2005 10 30	G96	Spacewatch
(500969)	2013 QK_{68}	2013 08 08	G96	Spacewatch
(500970)	2013 QH_{69}	2013 07 08	F51	Siding Spring Survey
(500971)	2013 QO_{70}	2007 03 26	461	Mt. Lemmon Survey
(500972)	2013 QO_{72}	2011 01 30	F51	Pan-STARRS 1
(500973)	2013 QE_{74}	2005 05 10	493	Spacewatch
(500974)	2013 QH_{76}	2009 10 14	I41	CSS
(500975)	2013 QJ_{77}	2013 08 08	G96	Spacewatch
(500976)	2013 QD_{80}	2013 08 12	G96	Spacewatch
(500977)	2013 QH_{82}	2013 08 12	F51	Pan-STARRS 1
(500978)	2013 QC_{83}	2009 09 18	F51	CSS
(500979)	2013 QM_{83}	2005 10 26	F51	Spacewatch
(500980)	2013 QC_{84}	2012 03 16	703	Pan-STARRS 1
(500981)	2013 QN_{90}	2012 04 27	G96	Pan-STARRS 1
(500982)	2013 QL_{91}	2013 07 15	F51	Pan-STARRS 1
(500983)	2013 QB_{95}	2013 08 09	F51	CSS
(500984)	2013 RX_{1}	2011 03 31	J43	Pan-STARRS 1
(500985)	2013 RB_{3}	2009 10 18	G96	Mt. Lemmon Survey
(500986)	2013 RK_{5}	2009 09 19	G96	Spacewatch
(500987)	2013 RH_{8}	2013 08 15	F51	Pan-STARRS 1
(500988)	2013 RR_{10}	2009 09 17	F51	Spacewatch
(500989)	2013 RM_{11}	2009 09 28	F51	Spacewatch
(500990)	2013 RC_{12}	2008 03 30	G96	Spacewatch
(500991)	2013 RP_{12}	2013 08 15	G96	Pan-STARRS 1
(500992)	2013 RB_{16}	2009 09 21	F51	Spacewatch
(500993)	2013 RA_{18}	2013 08 28	703	CSS
(500994)	2013 RA_{20}	2013 08 14	703	Pan-STARRS 1
(500995)	2013 RE_{20}	2013 09 01	G96	Mt. Lemmon Survey
(500996)	2013 RC_{22}	2009 11 09	703	LINEAR
(500997)	2013 RO_{22}	2011 01 30	G96	Pan-STARRS 1
(500998)	2013 RP_{23}	2012 04 27	F51	Pan-STARRS 1
(500999)	2013 RD_{25}	2011 04 03	G96	Pan-STARRS 1
(501000)	2013 RS_{25}	2010 02 05	703	WISE
(501001)	2013 RD_{26}	2013 09 03	703	CSS
(501002)	2013 RG_{28}	2013 09 04	G96	Mt. Lemmon Survey
(501003)	2013 RL_{28}	2013 09 04	G96	Mt. Lemmon Survey
(501004)	2013 RE_{29}	2013 09 04	G96	Mt. Lemmon Survey
(501005)	2013 RR_{31}	2013 09 03	I41	CSS
(501006)	2013 RT_{31}	2013 08 08	B20	Spacewatch
(501007)	2013 RD_{33}	2009 10 15	D00	OAM
(501008)	2013 RV_{33}	2011 01 29	703	Mt. Lemmon Survey
(501009)	2013 RN_{36}	2009 10 12	691	Mt. Lemmon Survey
(501010)	2013 RW_{36}	2013 09 03	691	Spacewatch
(501011)	2013 RL_{38}	2013 09 03	G96	Mt. Lemmon Survey
(501012)	2013 RB_{39}	2009 09 19	G96	Spacewatch
(501013)	2013 RO_{39}	2013 09 03	G96	Mt. Lemmon Survey
(501014)	2013 RS_{42}	2012 03 13	W87	Mt. Lemmon Survey
(501015)	2013 RR_{45}	2005 10 30	F51	Spacewatch
(501016)	2013 RO_{46}	2009 09 18	F51	Spacewatch
(501017)	2013 RB_{47}	2009 11 19	F51	Mt. Lemmon Survey
(501018)	2013 RE_{47}	2009 09 29	F51	Mt. Lemmon Survey
(501019)	2013 RK_{53}	2013 09 05	691	Spacewatch
(501020)	2013 RG_{54}	2011 01 30	N87	Pan-STARRS 1
(501021)	2013 RW_{55}	2010 01 20	F51	WISE
(501022)	2013 RY_{56}	2009 10 26	F51	Spacewatch
(501023)	2013 RE_{57}	2009 09 16	F51	Spacewatch
(501024)	2013 RJ_{60}	2013 09 08	F51	Pan-STARRS 1
(501025)	2013 RP_{60}	2011 01 30	I41	Pan-STARRS 1
(501026)	2013 RA_{63}	2009 10 27	G96	Mt. Lemmon Survey
(501027)	2013 RT_{63}	2013 09 01	G96	Pan-STARRS 1
(501028)	2013 RX_{64}	2005 12 24	I41	Spacewatch
(501029)	2013 RL_{67}	2007 03 13	G96	Mt. Lemmon Survey
(501030)	2013 RF_{68}	2011 01 30	D00	Pan-STARRS 1
(501031)	2013 RP_{70}	2013 09 05	691	Spacewatch
(501032)	2013 RQ_{70}	2004 10 08	691	Spacewatch
(501033)	2013 RS_{70}	2011 01 30	I41	Pan-STARRS 1
(501034)	2013 RV_{70}	2013 09 03	I41	Spacewatch
(501035)	2013 RY_{70}	2009 09 20	D00	Mt. Lemmon Survey
(501036)	2013 RA_{71}	2004 10 07	691	Spacewatch

(501037)	2013 RT_{71}	2009 10 23	691	Mt. Lemmon Survey
(501038)	2013 RX_{72}	2013 09 01	691	Mt. Lemmon Survey
(501039)	2013 RL_{74}	2009 09 23	F51	Mt. Lemmon Survey
(501040)	2013 RF_{78}	2005 11 04	G96	CSS
(501041)	2013 RK_{79}	2009 10 24	G96	Spacewatch
(501042)	2013 RD_{82}	2011 01 30	691	Pan-STARRS 1
(501043)	2013 RM_{82}	2005 09 30	691	Spacewatch
(501044)	2013 RG_{83}	2013 09 13	691	Spacewatch
(501045)	2013 RK_{86}	2013 09 05	691	Spacewatch
(501046)	2013 RJ_{87}	2011 04 12	G96	Spacewatch
(501047)	2013 RN_{94}	2005 11 22	I41	Spacewatch
(501048)	2013 RQ_{94}	2011 01 30	F51	Pan-STARRS 1
(501049)	2013 RT_{94}	2012 04 15	I41	Pan-STARRS 1
(501050)	2013 RD_{95}	2009 10 23	I41	Spacewatch
(501051)	2013 RU_{96}	2005 10 07	I41	CSS
(501052)	2013 RM_{97}	2013 09 10	I41	Pan-STARRS 1
(501053)	2013 RQ_{97}	2013 09 04	I41	CSS
(501054)	2013 SA	2013 09 14	I41	CSS
(501055)	2013 SP_{8}	2009 09 16	F51	Spacewatch
(501056)	2013 SO_{14}	2013 09 01	691	Mt. Lemmon Survey
(501057)	2013 SQ_{15}	2009 09 21	G96	Mt. Lemmon Survey
(501058)	2013 SH_{20}	2010 02 14	J75	WISE
(501059)	2013 SU_{25}	2009 08 15	I41	OAM
(501060)	2013 SO_{27}	2009 10 30	I41	Mt. Lemmon Survey
(501061)	2013 SX_{27}	2010 02 07	I41	WISE
(501062)	2013 SJ_{28}	2006 01 27	I41	LONEOS
(501063)	2013 SG_{29}	2012 05 21	I41	Pan-STARRS 1
(501064)	2013 SH_{30}	2009 11 09	I41	Spacewatch
(501065)	2013 SC_{32}	2011 03 04	G96	Mt. Lemmon Survey
(501066)	2013 SZ_{32}	2009 09 17	G96	Spacewatch
(501067)	2013 SY_{37}	2009 09 28	G96	Spacewatch
(501068)	2013 SD_{39}	2009 11 22	G96	Mt. Lemmon Survey
(501069)	2013 SC_{41}	2011 01 30	F51	Pan-STARRS 1
(501070)	2013 SL_{42}	2005 11 12	F51	Spacewatch
(501071)	2013 SW_{45}	2009 09 12	F51	CSS
(501072)	2013 SX_{45}	2009 11 18	F51	Spacewatch
(501073)	2013 SA_{46}	2013 08 15	F51	Pan-STARRS 1
(501074)	2013 ST_{47}	2000 09 04	703	LONEOS
(501075)	2013 SU_{49}	2013 09 28	G96	Mt. Lemmon Survey
(501076)	2013 SM_{50}	2013 09 14	G96	Mt. Lemmon Survey
(501077)	2013 SY_{50}	2006 01 31	F51	Spacewatch
(501078)	2013 SQ_{53}	2013 09 01	G96	Mt. Lemmon Survey
(501079)	2013 SE_{54}	2008 09 02	G96	OAM
(501080)	2013 SK_{55}	2009 10 12	I41	OAM
(501081)	2013 SN_{55}	2004 10 05	G96	LONEOS
(501082)	2013 SM_{56}	2013 08 27	I41	Pan-STARRS 1
(501083)	2013 SJ_{57}	2006 01 25	G96	Spacewatch
(501084)	2013 SG_{58}	2013 09 30	G96	Mt. Lemmon Survey
(501085)	2013 SS_{62}	2011 01 30	G96	Pan-STARRS 1
(501086)	2013 SN_{64}	2011 01 25	G96	CSS
(501087)	2013 SN_{66}	2011 01 28	F51	CSS
(501088)	2013 SR_{68}	2005 11 01	G96	Mt. Lemmon Survey
(501089)	2013 SK_{71}	2009 10 24	J43	CSS
(501090)	2013 SY_{71}	2013 09 05	703	Spacewatch
(501091)	2013 SL_{72}	2009 11 21	G96	Mt. Lemmon Survey
(501092)	2013 SM_{72}	2013 09 01	G96	Mt. Lemmon Survey
(501093)	2013 SP_{72}	2005 09 27	G96	Spacewatch
(501094)	2013 SW_{76}	2005 11 12	I41	Spacewatch
(501095)	2013 SH_{78}	2013 09 28	F51	Pan-STARRS 1
(501096)	2013 SN_{81}	2013 09 14	G96	Mt. Lemmon Survey
(501097)	2013 SO_{81}	2013 09 29	G96	Mt. Lemmon Survey
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(501099)	2013 ST_{81}	2013 09 29	G96	Mt. Lemmon Survey
(501100)	2013 SV_{81}	2013 09 12	G96	Mt. Lemmon Survey
(501101)	2013 SZ_{82}	2006 01 07	G96	Mt. Lemmon Survey
(501102)	2013 SB_{83}	2005 12 21	I41	Spacewatch
(501103)	2013 SF_{83}	2013 09 30	G96	Mt. Lemmon Survey
(501104)	2013 SG_{85}	2012 03 29	I41	Pan-STARRS 1
(501105)	2013 SA_{87}	2013 09 23	G36	Hellmich, S., Motolla, S.
(501106)	2013 TN_{1}	2013 09 03	I41	Spacewatch
(501107)	2013 TF_{2}	2007 03 09	I41	Mt. Lemmon Survey
(501108)	2013 TF_{3}	2005 12 30	I41	Spacewatch
(501109)	2013 TE_{7}	2013 09 28	J43	CSS
(501110)	2013 TJ_{7}	2005 11 06	I41	Spacewatch
(501111)	2013 TE_{8}	2004 09 07	I41	LINEAR
(501112)	2013 TN_{8}	2005 09 29	I41	Mt. Lemmon Survey
(501113)	2013 TL_{10}	2011 01 30	G32	Pan-STARRS 1
(501114)	2013 TG_{12}	2009 08 20	J43	OAM
(501115)	2013 TU_{12}	2009 08 30	703	Spacewatch
(501116)	2013 TP_{13}	2005 11 25	691	Spacewatch
(501117)	2013 TA_{15}	2008 05 08	G96	Spacewatch
(501118)	2013 TM_{18}	2009 11 09	691	Spacewatch
(501119)	2013 TK_{19}	2013 09 15	G96	Pan-STARRS 1
(501120)	2013 TR_{20}	2006 01 23	G96	Spacewatch
(501121)	2013 TN_{22}	2005 10 27	G96	Spacewatch
(501122)	2013 TV_{23}	2011 03 31	691	Pan-STARRS 1
(501123)	2013 TX_{23}	2013 10 01	691	Spacewatch
(501124)	2013 TH_{24}	2008 09 27	691	Mt. Lemmon Survey
(501125)	2013 TU_{25}	2009 11 09	G96	Spacewatch
(501126)	2013 TO_{26}	2005 09 30	G96	Mt. Lemmon Survey
(501127)	2013 TO_{31}	2006 01 23	691	Spacewatch
(501128)	2013 TX_{31}	2009 10 12	I41	Mt. Lemmon Survey
(501129)	2013 TL_{32}	2009 09 20	691	Mt. Lemmon Survey
(501130)	2013 TW_{32}	2005 10 07	691	Mt. Lemmon Survey
(501131)	2013 TE_{33}	2000 09 23	691	LINEAR
(501132)	2013 TJ_{35}	2011 03 25	691	Pan-STARRS 1
(501133)	2013 TN_{35}	2005 12 26	691	Mt. Lemmon Survey
(501134)	2013 TO_{35}	2010 02 28	691	WISE
(501135)	2013 TE_{39}	2007 04 22	G96	Spacewatch
(501136)	2013 TO_{40}	2008 10 25	G96	Mt. Lemmon Survey
(501137)	2013 TJ_{43}	2011 04 02	691	Pan-STARRS 1
(501138)	2013 TM_{43}	2009 10 27	691	Mt. Lemmon Survey
(501139)	2013 TX_{44}	2009 11 26	G96	Mt. Lemmon Survey
(501140)	2013 TT_{52}	2013 10 04	691	Spacewatch

(501141)	2013 TS_{53}	2009 10 12	691	Mt. Lemmon Survey
(501142)	2013 TV_{53}	2004 09 10	691	LINEAR
(501143)	2013 TB_{54}	2009 10 22	G96	Mt. Lemmon Survey
(501144)	2013 TT_{55}	2009 11 21	G96	Spacewatch
(501145)	2013 TL_{61}	2008 04 01	G96	Spacewatch
(501146)	2013 TT_{61}	2008 10 26	G96	Spacewatch
(501147)	2013 TM_{62}	1996 11 06	703	Spacewatch
(501148)	2013 TO_{64}	2013 09 13	G96	Mt. Lemmon Survey
(501149)	2013 TR_{65}	2013 07 16	691	Pan-STARRS 1
(501150)	2013 TV_{65}	2010 02 14	G96	WISE
(501151)	2013 TK_{70}	2008 04 01	G96	Spacewatch
(501152)	2013 TX_{71}	2013 09 01	G96	Mt. Lemmon Survey
(501153)	2013 TG_{72}	2009 11 17	G96	Spacewatch
(501154)	2013 TM_{72}	2009 09 19	G96	Spacewatch
(501155)	2013 TP_{72}	2004 09 11	691	Spacewatch
(501156)	2013 TU_{73}	2009 09 21	691	Spacewatch
(501157)	2013 TZ_{73}	2009 12 15	691	CSS
(501158)	2013 TM_{77}	2010 01 21	G96	WISE
(501159)	2013 TQ_{77}	2013 10 05	F51	Pan-STARRS 1
(501160)	2013 TD_{79}	2007 03 12	G96	Spacewatch
(501161)	2013 TH_{79}	2009 11 09	G96	Mt. Lemmon Survey
(501162)	2013 TW_{79}	2013 09 30	703	CSS
(501163)	2013 TF_{80}	2013 09 06	691	Spacewatch
(501164)	2013 TU_{82}	2009 07 31	703	Spacewatch
(501165)	2013 TR_{83}	1996 10 10	691	Spacewatch
(501166)	2013 TB_{84}	2011 03 28	691	Mt. Lemmon Survey
(501167)	2013 TK_{84}	2008 09 03	691	Spacewatch
(501168)	2013 TL_{84}	2009 11 16	691	Spacewatch
(501169)	2013 TJ_{89}	2001 10 16	691	Spacewatch
(501170)	2013 TO_{89}	2009 11 27	691	Mt. Lemmon Survey
(501171)	2013 TX_{89}	2013 10 01	691	Spacewatch
(501172)	2013 TC_{93}	2012 05 20	691	Mt. Lemmon Survey
(501173)	2013 TM_{93}	2012 06 16	691	Mt. Lemmon Survey
(501174)	2013 TN_{94}	2009 11 09	703	CSS
(501175)	2013 TV_{94}	2008 08 24	691	Spacewatch
(501176)	2013 TS_{95}	2009 11 18	691	Spacewatch
(501177)	2013 TK_{96}	2012 04 27	691	Pan-STARRS 1
(501178)	2013 TC_{99}	2013 10 02	691	Spacewatch
(501179)	2013 TM_{99}	2009 10 27	691	OAM
(501180)	2013 TU_{99}	2013 07 20	691	Pan-STARRS 1
(501181)	2013 TQ_{102}	2006 01 31	G96	Spacewatch
(501182)	2013 TO_{106}	2012 03 27	G96	Spacewatch
(501183)	2013 TP_{106}	2011 04 05	691	Mt. Lemmon Survey
(501184)	2013 TT_{108}	2009 12 10	G96	Mt. Lemmon Survey
(501185)	2013 TW_{108}	2013 09 13	G96	Mt. Lemmon Survey
(501186)	2013 TH_{109}	2013 07 16	I41	Pan-STARRS 1
(501187)	2013 TM_{109}	2013 10 03	691	Spacewatch
(501188)	2013 TG_{110}	2013 10 03	691	Spacewatch
(501189)	2013 TT_{110}	2010 01 12	691	Mt. Lemmon Survey
(501190)	2013 TX_{112}	2013 10 03	F51	Pan-STARRS 1
(501191)	2013 TP_{113}	2013 09 14	F51	Mt. Lemmon Survey
(501192)	2013 TS_{114}	2013 09 14	F51	Mt. Lemmon Survey
(501193)	2013 TJ_{115}	2012 05 15	691	Pan-STARRS 1
(501194)	2013 TM_{116}	2011 03 31	691	Pan-STARRS 1
(501195)	2013 TX_{123}	2005 12 24	F51	Spacewatch
(501196)	2013 TH_{124}	2011 04 03	F51	Pan-STARRS 1
(501197)	2013 TL_{124}	2005 11 26	F51	Spacewatch
(501198)	2013 TO_{126}	2009 11 08	G96	CSS
(501199)	2013 TK_{127}	2011 03 31	691	Pan-STARRS 1
(501200)	2013 TK_{128}	2012 02 27	J43	Pan-STARRS 1
(501201)	2013 TH_{130}	2011 01 30	I41	Pan-STARRS 1
(501202)	2013 TU_{134}	2006 02 01	J43	Spacewatch
(501203)	2013 TB_{136}	2000 09 23	703	LINEAR
(501204)	2013 TE_{136}	2006 02 27	I41	Mt. Lemmon Survey
(501205)	2013 TT_{136}	2009 10 02	I41	Mt. Lemmon Survey
(501206)	2013 TZ_{136}	2013 10 03	I41	Spacewatch
(501207)	2013 TO_{141}	2013 09 15	G96	Spacewatch
(501208)	2013 TS_{141}	2010 03 17	G96	WISE
(501209)	2013 TV_{141}	2013 09 04	G96	Mt. Lemmon Survey
(501210)	2013 TF_{142}	2009 10 18	G96	Mt. Lemmon Survey
(501211)	2013 TQ_{143}	2009 11 20	926	Spacewatch
(501212)	2013 TB_{145}	2009 12 20	I41	Mt. Lemmon Survey
(501213)	2013 TS_{145}	2013 10 05	I41	Pan-STARRS 1
(501214)	2013 TC_{146}	2013 10 05	695	Buie, M. W.
(501215)	2013 TZ_{153}	2005 11 25	695	Spacewatch
(501216)	2013 UW	2010 03 05	G96	CSS
(501217)	2013 UY_{1}	2013 10 20	F51	Pan-STARRS 1
(501218)	2013 UZ_{2}	2004 12 10	G96	Spacewatch
(501219)	2013 UP_{3}	2009 09 22	291	CSS
(501220)	2013 UB_{6}	2013 10 11	I41	CSS
(501221)	2013 UX_{7}	2011 04 02	I41	Pan-STARRS 1
(501222)	2013 US_{9}	2009 09 29	G32	Mt. Lemmon Survey
(501223)	2013 UU_{12}	2013 10 13	C95	Mt. Lemmon Survey
(501224)	2013 UU_{13}	2005 12 24	I41	Spacewatch
(501225)	2013 UY_{13}	2013 09 17	I41	Mt. Lemmon Survey
(501226)	2013 UH_{14}	2009 11 10	I41	CSS
(501227)	2013 UO_{14}	2005 12 29	I41	CSS
(501228)	2013 VL_{1}	2013 09 06	G32	Mt. Lemmon Survey
(501229)	2013 VO_{1}	2009 11 27	G32	Mt. Lemmon Survey
(501230)	2013 VB_{3}	2013 09 17	I41	Mt. Lemmon Survey
(501231)	2013 VS_{3}	2013 09 06	I41	Mt. Lemmon Survey
(501232)	2013 VT_{3}	2005 11 22	I41	CSS
(501233)	2013 VS_{4}	2005 12 29	703	Mt. Lemmon Survey
(501234)	2013 VK_{6}	2009 11 27	J43	Mt. Lemmon Survey
(501235)	2013 VM_{6}	2013 10 06	J43	Mt. Lemmon Survey
(501236)	2013 VY_{6}	2013 10 12	I41	PMO NEO Survey Program
(501237)	2013 VR_{7}	2008 09 19	J43	Spacewatch
(501238)	2013 VG_{8}	2000 10 01	J43	LINEAR
(501239)	2013 VK_{10}	2009 11 16	I41	LINEAR
(501240)	2013 VN_{10}	2013 10 02	G32	Spacewatch
(501241)	2013 VA_{11}	2011 04 26	I41	Mt. Lemmon Survey
(501242)	2013 VO_{12}	2013 10 03	H15	CSS
(501243)	2013 VG_{13}	2013 11 09	G96	Mt. Lemmon Survey
(501244)	2013 VA_{15}	2013 07 16	J43	Pan-STARRS 1

(501245)	2013 VW_{15}	2013 07 20	G32	Pan-STARRS 1
(501246)	2013 VC_{16}	2009 10 12	I41	Mt. Lemmon Survey
(501247)	2013 VK_{16}	2009 11 08	G32	Spacewatch
(501248)	2013 VR_{18}	2009 10 22	G96	CSS
(501249)	2013 VR_{19}	2013 10 03	703	Spacewatch
(501250)	2013 VT_{20}	2000 09 21	703	LONEOS
(501251)	2013 VX_{20}	2010 02 15	D29	CSS
(501252)	2013 VX_{21}	2013 10 08	I41	PMO NEO Survey Program
(501253)	2013 VF_{22}	2010 01 07	I41	Spacewatch
(501254)	2013 VG_{22}	2009 10 26	I41	Mt. Lemmon Survey
(501255)	2013 VH_{22}	2000 09 24	I41	LINEAR
(501256)	2013 WA	2006 01 28	926	CSS
(501257)	2013 WN_{1}	2009 11 10	F51	Spacewatch
(501258)	2013 WA_{2}	2012 04 21	F51	Mt. Lemmon Survey
(501259)	2013 WY_{2}	2013 09 17	926	Mt. Lemmon Survey
(501260)	2013 WY_{3}	2013 11 02	703	Mt. Lemmon Survey
(501261)	2013 WB_{6}	2013 10 30	926	Pan-STARRS 1
(501262)	2013 WU_{6}	2006 02 22	D29	Spacewatch
(501263)	2013 WT_{9}	2013 10 30	926	Pan-STARRS 1
(501264)	2013 WF_{11}	2004 10 23	926	Spacewatch
(501265)	2013 WE_{12}	2013 11 26	D29	PMO NEO Survey Program
(501266)	2013 WJ_{13}	2013 10 26	F51	Mt. Lemmon Survey
(501267)	2013 WV_{13}	2011 05 01	F51	Pan-STARRS 1
(501268)	2013 WG_{14}	2013 11 27	F51	Pan-STARRS 1
(501269)	2013 WE_{15}	2013 10 26	F51	Mt. Lemmon Survey
(501270)	2013 WE_{19}	2013 11 27	F51	Pan-STARRS 1
(501271)	2013 WE_{26}	2013 09 14	D29	CSS
(501272)	2013 WC_{29}	2009 11 18	G96	Mt. Lemmon Survey
(501273)	2013 WZ_{33}	2008 10 08	F51	Spacewatch
(501274)	2013 WT_{34}	2008 09 21	F51	Spacewatch
(501275)	2013 WN_{37}	2004 12 14	F51	Spacewatch
(501276)	2013 WH_{41}	2008 10 06	G96	Mt. Lemmon Survey
(501277)	2013 WJ_{41}	2012 08 13	G96	Spacewatch
(501278)	2013 WZ_{41}	2010 01 06	G32	Spacewatch
(501279)	2013 WA_{43}	2013 10 31	G96	Mt. Lemmon Survey
(501280)	2013 WO_{43}	2004 09 21	G96	Spacewatch
(501281)	2013 WJ_{46}	2013 07 14	F51	Pan-STARRS 1
(501282)	2013 WM_{46}	2013 10 25	F51	CSS
(501283)	2013 WS_{46}	2010 01 06	F51	CSS
(501284)	2013 WV_{46}	2013 09 28	F51	Mt. Lemmon Survey
(501285)	2013 WY_{46}	2009 11 19	F51	Mt. Lemmon Survey
(501286)	2013 WK_{53}	2011 01 30	F51	Pan-STARRS 1
(501287)	2013 WR_{54}	2010 06 06	D29	WISE
(501288)	2013 WW_{54}	2005 02 02	D29	Spacewatch
(501289)	2013 WY_{54}	2009 11 21	D29	Mt. Lemmon Survey
(501290)	2013 WB_{56}	2013 11 01	G96	Spacewatch
(501291)	2013 WH_{57}	2009 11 27	F51	Mt. Lemmon Survey
(501292)	2013 WY_{57}	2000 09 30	F51	LONEOS
(501293)	2013 WA_{59}	2009 11 16	F51	Mt. Lemmon Survey
(501294)	2013 WZ_{59}	2010 01 08	F51	Spacewatch
(501295)	2013 WL_{62}	2009 01 01	926	Mt. Lemmon Survey
(501296)	2013 WB_{63}	2000 09 23	F51	LINEAR
(501297)	2013 WF_{63}	2000 09 02	926	LONEOS
(501298)	2013 WV_{63}	2005 12 01	F51	Mt. Lemmon Survey
(501299)	2013 WB_{68}	2012 05 12	D00	Pan-STARRS 1
(501300)	2013 WW_{68}	2006 01 22	691	Mt. Lemmon Survey
(501301)	2013 WZ_{68}	2013 10 02	691	Spacewatch
(501302)	2013 WD_{69}	2008 09 19	691	Spacewatch
(501303)	2013 WA_{70}	2010 01 11	G96	Mt. Lemmon Survey
(501304)	2013 WM_{70}	1999 11 04	G96	Spacewatch
(501305)	2013 WS_{71}	2008 10 02	G96	Mt. Lemmon Survey
(501306)	2013 WF_{72}	2013 11 08	G96	Mt. Lemmon Survey
(501307)	2013 WD_{74}	2009 12 17	F51	Spacewatch
(501308)	2013 WW_{78}	2009 11 10	703	Mt. Lemmon Survey
(501309)	2013 WF_{83}	2013 11 27	F51	Pan-STARRS 1
(501310)	2013 WS_{85}	2006 02 21	F51	Mt. Lemmon Survey
(501311)	2013 WW_{85}	2009 11 21	F51	Mt. Lemmon Survey
(501312)	2013 WJ_{86}	2013 07 13	F51	Pan-STARRS 1
(501313)	2013 WJ_{91}	2012 08 06	G96	Pan-STARRS 1
(501314)	2013 WV_{98}	2013 11 09	G96	Pan-STARRS 1
(501315)	2013 WD_{103}	2005 12 25	D29	Spacewatch
(501316)	2013 WT_{103}	2005 12 30	D29	CSS
(501317)	2013 WU_{103}	2008 09 27	D29	Mt. Lemmon Survey
(501318)	2013 WB_{104}	2013 11 28	D39	Mt. Lemmon Survey
(501319)	2013 WF_{104}	2013 09 14	D29	CSS
(501320)	2013 WA_{106}	2011 05 01	F51	Pan-STARRS 1
(501321)	2013 WP_{106}	2004 09 12	J75	LINEAR
(501322)	2013 WD_{108}	2006 01 02	D29	Mt. Lemmon Survey
(501323)	2013 WV_{108}	2004 08 23	G96	Spacewatch
(501324)	2013 XK_{2}	2010 01 06	104	Spacewatch
(501325)	2013 XD_{3}	2013 10 24	J43	Spacewatch
(501326)	2013 XG_{5}	2006 01 07	G96	Mt. Lemmon Survey
(501327)	2013 XN_{5}	2008 12 04	F51	Mt. Lemmon Survey
(501328)	2013 XL_{6}	2013 10 28	F51	Mt. Lemmon Survey
(501329)	2013 XR_{8}	2013 11 28	G32	Spacewatch
(501330)	2013 XP_{10}	2009 12 17	F51	Mt. Lemmon Survey
(501331)	2013 XW_{10}	1999 10 20	F51	Spacewatch
(501332)	2013 XK_{12}	2013 11 28	198	Mt. Lemmon Survey
(501333)	2013 XJ_{14}	2000 11 27	G96	Spacewatch
(501334)	2013 XS_{16}	2008 10 24	G96	Mt. Lemmon Survey
(501335)	2013 XQ_{18}	2013 11 28	104	Mt. Lemmon Survey
(501336)	2013 XT_{20}	2009 11 24	F51	CSS
(501337)	2013 XM_{23}	2013 12 13	G96	Mt. Lemmon Survey
(501338)	2013 YK	2013 10 26	F51	CSS
(501339)	2013 YV_{1}	2012 10 08	G96	Pan-STARRS 1
(501340)	2013 YS_{4}	2013 12 23	G96	Mt. Lemmon Survey
(501341)	2013 YG_{7}	2013 11 28	G96	Mt. Lemmon Survey
(501342)	2013 YC_{10}	2013 12 24	G96	Mt. Lemmon Survey
(501343)	2013 YD_{10}	2001 01 14	703	Spacewatch
(501344)	2013 YH_{10}	2005 06 15	G96	Mt. Lemmon Survey
(501345)	2013 YC_{11}	2005 03 01	G96	Spacewatch
(501346)	2013 YQ_{11}	2004 12 02	J43	Spacewatch
(501347)	2013 YN_{12}	2013 11 29	F51	Mt. Lemmon Survey
(501348)	2013 YS_{13}	2013 12 25	G96	Mt. Lemmon Survey

(501349)	2013 YE_{15}	2013 11 14	G96	Mt. Lemmon Survey
(501350)	2013 YO_{15}	2013 11 27	G96	Pan-STARRS 1
(501351)	2013 YV_{19}	2011 08 06	F51	Pan-STARRS 1
(501352)	2013 YM_{20}	2012 05 21	G96	Pan-STARRS 1
(501353)	2013 YC_{25}	2000 11 20	G96	Spacewatch
(501354)	2013 YQ_{26}	2008 12 22	G96	Spacewatch
(501355)	2013 YJ_{30}	2012 08 17	G96	Pan-STARRS 1
(501356)	2013 YU_{30}	2007 10 24	691	Mt. Lemmon Survey
(501357)	2013 YC_{31}	2009 12 18	F51	Mt. Lemmon Survey
(501358)	2013 YV_{32}	2013 11 02	691	Mt. Lemmon Survey
(501359)	2013 YZ_{32}	2008 11 30	691	Spacewatch
(501360)	2013 YD_{33}	1995 10 21	691	Spacewatch
(501361)	2013 YN_{33}	2013 12 26	G96	Mt. Lemmon Survey
(501362)	2013 YY_{33}	2013 12 26	G96	Mt. Lemmon Survey
(501363)	2013 YE_{36}	2013 12 26	F51	Pan-STARRS 1
(501364)	2013 YO_{40}	2012 08 11	J43	Pan-STARRS 1
(501365)	2013 YA_{42}	2004 11 11	F51	Spacewatch
(501366)	2013 YS_{42}	2013 12 26	691	Spacewatch
(501367)	2013 YQ_{43}	2003 09 19	691	Spacewatch
(501368)	2013 YU_{44}	2013 12 26	691	Spacewatch
(501369)	2013 YD_{45}	2012 10 18	691	Mt. Lemmon Survey
(501370)	2013 YN_{45}	2012 10 20	691	Pan-STARRS 1
(501371)	2013 YJ_{47}	2008 10 30	H36	Mt. Lemmon Survey
(501372)	2013 YS_{47}	2013 12 13	691	Mt. Lemmon Survey
(501373)	2013 YX_{47}	2013 11 08	290	Mt. Lemmon Survey
(501374)	2013 YW_{48}	2008 09 26	G96	Mt. Lemmon Survey
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(501376)	2013 YS_{51}	1998 01 01	691	Spacewatch
(501377)	2013 YX_{53}	2013 11 28	F51	Mt. Lemmon Survey
(501378)	2013 YE_{56}	2007 11 18	F51	Mt. Lemmon Survey
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(501380)	2013 YS_{59}	2013 12 27	691	Spacewatch
(501381)	2013 YG_{64}	2012 10 08	691	Pan-STARRS 1
(501382)	2013 YH_{65}	2013 12 10	691	Mt. Lemmon Survey
(501383)	2013 YM_{65}	2009 03 16	H15	Mt. Lemmon Survey
(501384)	2013 YC_{66}	2013 12 04	703	PMO NEO Survey Program
(501385)	2013 YT_{68}	2012 10 17	G96	Pan-STARRS 1
(501386)	2013 YU_{68}	2013 12 30	G96	Mt. Lemmon Survey
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(501392)	2013 YW_{75}	2013 12 26	G96	Mt. Lemmon Survey
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(501394)	2013 YQ_{78}	2012 10 08	691	Pan-STARRS 1
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(501396)	2013 YH_{83}	2008 09 03	703	OAM
(501397)	2013 YR_{83}	2008 08 06	691	Siding Spring Survey
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(501399)	2013 YH_{92}	2003 12 22	F51	Spacewatch
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(501403)	2013 YG_{94}	2007 10 14	691	Mt. Lemmon Survey
(501404)	2013 YE_{95}	2013 12 30	691	Spacewatch
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(501406)	2013 YD_{107}	2009 01 20	F51	Spacewatch
(501407)	2013 YY_{108}	2012 09 18	G96	Mt. Lemmon Survey
(501408)	2013 YL_{109}	2006 05 22	F51	Mt. Lemmon Survey
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(501411)	2013 YT_{116}	2013 12 30	G96	Mt. Lemmon Survey
(501412)	2013 YV_{120}	2009 01 29	F51	CSS
(501413)	2013 YN_{124}	2007 11 18	691	Mt. Lemmon Survey
(501414)	2013 YA_{125}	2012 10 06	691	Pan-STARRS 1
(501415)	2013 YS_{128}	2013 12 07	F51	Pan-STARRS 1
(501416)	2013 YP_{130}	2010 03 18	G96	Mt. Lemmon Survey
(501417)	2013 YQ_{130}	2013 12 31	G96	Mt. Lemmon Survey
(501418)	2013 YD_{131}	2011 07 31	G96	Pan-STARRS 1
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(501420)	2013 YD_{132}	2006 08 27	G96	Spacewatch
(501421)	2013 YK_{132}	2012 11 12	G96	Pan-STARRS 1
(501422)	2013 YG_{133}	2007 09 09	G96	Spacewatch
(501423)	2013 YS_{138}	2009 01 18	G96	Spacewatch
(501424)	2013 YU_{139}	2004 12 11	G96	Spacewatch
(501425)	2013 YW_{139}	2012 10 06	691	Pan-STARRS 1
(501426)	2013 YQ_{141}	2008 10 06	G96	CSS
(501427)	2013 YP_{146}	2009 02 19	G96	Mt. Lemmon Survey
(501428)	2013 YF_{149}	2001 10 17	J43	LINEAR
(501429)	2013 YH_{149}	2013 12 11	F51	Pan-STARRS 1
(501430)	2013 YD_{150}	2010 01 11	703	Mt. Lemmon Survey
(501431)	2013 YL_{150}	2010 02 13	F51	CSS
(501432)	2013 YP_{150}	2007 10 19	G96	CSS
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(501434)	2014 AA_{1}	2008 10 29	F51	Mt. Lemmon Survey
(501435)	2014 AO_{4}	2013 12 13	F51	Mt. Lemmon Survey
(501436)	2014 AG_{10}	2008 11 24	926	Mt. Lemmon Survey
(501437)	2014 AA_{19}	2007 11 05	F51	Mt. Lemmon Survey
(501438)	2014 AO_{19}	2014 01 01	691	Spacewatch
(501439)	2014 AC_{20}	2013 11 02	691	Mt. Lemmon Survey
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(501441)	2014 AQ_{23}	2012 10 06	691	Pan-STARRS 1
(501442)	2014 AW_{23}	2007 10 10	G96	Mt. Lemmon Survey
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(501447)	2014 AW_{29}	2008 12 05	691	Mt. Lemmon Survey
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(501458)	2014 AU_{46}	2012 09 26	F51	Pan-STARRS 1
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(501463)	2014 BE_{10}	2012 09 15	F51	CSS
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(501465)	2014 BY_{14}	2008 11 24	G96	Spacewatch
(501466)	2014 BR_{16}	2008 11 01	G96	Mt. Lemmon Survey
(501467)	2014 BZ_{17}	2011 08 23	691	OAM
(501468)	2014 BU_{18}	2012 10 19	G96	Mt. Lemmon Survey
(501469)	2014 BV_{19}	2009 03 01	G96	Spacewatch
(501470)	2014 BM_{20}	2007 12 15	I41	CSS
(501471)	2014 BR_{30}	2006 09 27	G96	Spacewatch
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(501474)	2014 BQ_{44}	2007 12 05	691	Spacewatch
(501475)	2014 BQ_{48}	2009 02 24	G96	Mt. Lemmon Survey
(501476)	2014 BV_{52}	2003 01 27	F51	Spacewatch
(501477)	2014 BW_{54}	2007 12 05	F51	Spacewatch
(501478)	2014 BT_{58}	2008 12 03	F51	Spacewatch
(501479)	2014 BD_{60}	2012 06 11	F51	Pan-STARRS 1
(501480)	2014 BD_{62}	2009 03 08	G32	Mt. Lemmon Survey
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(501486)	2014 CK_{5}	2007 10 21	691	Mt. Lemmon Survey
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(501521)	2014 EW_{27}	2014 02 09	691	Spacewatch
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(501524)	2014 EA_{31}	2012 12 09	691	Pan-STARRS 1
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(501526)	2014 EF_{51}	2014 02 20	703	Pan-STARRS 1
(501527)	2014 FR_{3}	2002 01 22	G96	Spacewatch
(501528)	2014 FV_{5}	2011 07 28	F51	Pan-STARRS 1
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(501531)	2014 FP_{19}	2012 10 06	G96	Pan-STARRS 1
(501532)	2014 FR_{21}	2009 04 26	G96	Mt. Lemmon Survey
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(501534)	2014 FQ_{55}	2008 03 11	703	PMO NEO Survey Program
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(501539)	2014 JZ_{2}	2011 10 25	J04	Pan-STARRS 1
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(502026)	2015 AW_{96}	2011 01 28	F51	Mt. Lemmon Survey
(502027)	2015 AK_{99}	2014 12 21	F51	Mt. Lemmon Survey
(502028)	2015 AK_{100}	2012 08 22	F51	Pan-STARRS 1
(502029)	2015 AO_{102}	2009 12 17	F51	Mt. Lemmon Survey
(502030)	2015 AD_{105}	2006 01 22	F51	Mt. Lemmon Survey
(502031)	2015 AM_{112}	2006 04 02	F51	Spacewatch
(502032)	2015 AA_{118}	2009 11 09	F51	Mt. Lemmon Survey
(502033)	2015 AR_{125}	2006 01 05	F51	Spacewatch
(502034)	2015 AP_{126}	2010 09 04	F51	Mt. Lemmon Survey
(502035)	2015 AM_{128}	2012 05 15	F51	Pan-STARRS 1
(502036)	2015 AR_{128}	2006 03 02	F51	Spacewatch
(502037)	2015 AH_{129}	2009 11 17	F51	Mt. Lemmon Survey
(502038)	2015 AO_{130}	2011 01 30	F51	Pan-STARRS 1
(502039)	2015 AN_{132}	2012 08 10	F51	Spacewatch
(502040)	2015 AS_{133}	2006 01 07	F51	Mt. Lemmon Survey
(502041)	2015 AF_{142}	2007 04 22	F51	Mt. Lemmon Survey
(502042)	2015 AM_{142}	2006 01 08	F51	Mt. Lemmon Survey
(502043)	2015 AD_{146}	2007 01 25	F51	Spacewatch
(502044)	2015 AX_{146}	2003 09 20	F51	Spacewatch
(502045)	2015 AY_{149}	2004 09 15	F51	Spacewatch
(502046)	2015 AX_{150}	2005 12 05	F51	Mt. Lemmon Survey
(502047)	2015 AH_{152}	2007 01 27	F51	Spacewatch
(502048)	2015 AR_{154}	2004 01 15	F51	Spacewatch
(502049)	2015 AT_{154}	2011 01 30	F51	Pan-STARRS 1
(502050)	2015 AH_{158}	2011 01 30	F51	Pan-STARRS 1
(502051)	2015 AK_{158}	2006 09 26	F51	CSS
(502052)	2015 AZ_{158}	2010 11 07	F51	Mt. Lemmon Survey
(502053)	2015 AP_{164}	2013 10 24	F51	Mt. Lemmon Survey
(502054)	2015 AX_{164}	2011 04 01	F51	Spacewatch
(502055)	2015 AC_{166}	2012 06 16	F51	Mt. Lemmon Survey
(502056)	2015 AW_{166}	2006 11 24	F51	Spacewatch
(502057)	2015 AK_{168}	2003 04 11	F51	Spacewatch
(502058)	2015 AU_{168}	2006 09 26	F51	CSS
(502059)	2015 AZ_{170}	2011 03 31	F51	Pan-STARRS 1
(502060)	2015 AB_{172}	2011 01 11	F51	Spacewatch
(502061)	2015 AC_{176}	2005 11 26	F51	Mt. Lemmon Survey
(502062)	2015 AD_{179}	2005 12 26	F51	Spacewatch
(502063)	2015 AG_{179}	2010 06 16	F51	WISE
(502064)	2015 AH_{180}	2013 10 13	F51	Mt. Lemmon Survey
(502065)	2015 AO_{180}	2009 10 16	F51	Mt. Lemmon Survey
(502066)	2015 AM_{181}	2008 01 01	F51	Spacewatch
(502067)	2015 AE_{182}	2003 04 25	F51	Spacewatch
(502068)	2015 AL_{183}	2014 12 21	F51	Pan-STARRS 1
(502069)	2015 AZ_{188}	2015 01 14	F51	Pan-STARRS 1
(502070)	2015 AB_{189}	2011 01 14	F51	Spacewatch
(502071)	2015 AK_{191}	2013 08 15	F51	Pan-STARRS 1
(502072)	2015 AM_{193}	2011 02 25	F51	Mt. Lemmon Survey
(502073)	2015 AL_{196}	1999 11 10	F51	Spacewatch
(502074)	2015 AN_{196}	2013 11 11	F51	Mt. Lemmon Survey
(502075)	2015 AA_{206}	2006 09 16	G96	Spacewatch
(502076)	2015 AF_{206}	1999 10 15	G96	Spacewatch

(502077)	2015 AD_{225}	2011 03 05	F51	Mt. Lemmon Survey
(502078)	2015 AS_{228}	2004 09 11	F51	Spacewatch
(502079)	2015 AR_{229}	2006 10 04	F51	Mt. Lemmon Survey
(502080)	2015 AT_{232}	2010 01 15	F51	Mt. Lemmon Survey
(502081)	2015 AB_{233}	2000 11 23	F51	Spacewatch
(502082)	2015 AX_{233}	2015 01 15	F51	Pan-STARRS 1
(502083)	2015 AQ_{234}	2014 11 28	F51	Pan-STARRS 1
(502084)	2015 AO_{238}	2008 10 06	F51	Spacewatch
(502085)	2015 AW_{238}	2010 06 16	G96	WISE
(502086)	2015 AT_{239}	2006 11 17	G96	Spacewatch
(502087)	2015 AB_{240}	2009 08 17	G96	Spacewatch
(502088)	2015 AD_{240}	2007 04 16	F51	Mt. Lemmon Survey
(502089)	2015 AJ_{241}	2008 12 21	G96	CSS
(502090)	2015 AM_{241}	2011 05 03	G96	Spacewatch
(502091)	2015 AT_{246}	2011 01 30	F51	Pan-STARRS 1
(502092)	2015 AH_{248}	2011 02 04	F51	Pan-STARRS 1
(502093)	2015 AC_{250}	2007 03 14	F51	Spacewatch
(502094)	2015 AB_{252}	2006 05 02	F51	Mt. Lemmon Survey
(502095)	2015 AL_{252}	2003 10 22	F51	Spacewatch
(502096)	2015 AQ_{253}	2011 04 12	F51	Mt. Lemmon Survey
(502097)	2015 AT_{258}	2005 12 07	691	Spacewatch
(502098)	2015 AV_{261}	2013 08 15	F51	Pan-STARRS 1
(502099)	2015 AB_{262}	2013 08 15	F51	Pan-STARRS 1
(502100)	2015 AE_{263}	2009 12 11	G96	CSS
(502101)	2015 AE_{264}	2015 01 15	F51	Pan-STARRS 1
(502102)	2015 AF_{264}	2005 08 28	F51	Spacewatch
(502103)	2015 AN_{264}	2004 11 04	F51	CSS
(502104)	2015 AA_{265}	2012 05 16	F51	Pan-STARRS 1
(502105)	2015 AQ_{272}	2005 11 05	F51	Spacewatch
(502106)	2015 AX_{273}	2011 04 02	F51	Pan-STARRS 1
(502107)	2015 AU_{278}	2006 08 14	F51	Siding Spring Survey
(502108)	2015 AZ_{279}	2004 08 25	F51	Spacewatch
(502109)	2015 AP_{280}	2007 08 23	G96	Spacewatch
(502110)	2015 BR	2011 01 24	703	Mt. Lemmon Survey
(502111)	2015 BS_{2}	2008 09 23	G96	Mt. Lemmon Survey
(502112)	2015 BT_{3}	2011 01 02	G96	OAM
(502113)	2015 BB_{5}	2014 11 29	J43	Pan-STARRS 1
(502114)	2015 BG_{5}	2005 10 11	J43	LONEOS
(502115)	2015 BZ_{5}	2008 02 09	691	Mt. Lemmon Survey
(502116)	2015 BC_{6}	2011 01 02	691	Mt. Lemmon Survey
(502117)	2015 BS_{6}	2007 03 16	691	Spacewatch
(502118)	2015 BR_{7}	2009 11 21	G96	Mt. Lemmon Survey
(502119)	2015 BS_{7}	2007 02 23	G96	Spacewatch
(502120)	2015 BT_{7}	2008 03 05	691	Mt. Lemmon Survey
(502121)	2015 BK_{8}	2003 09 16	G96	Spacewatch
(502122)	2015 BT_{8}	2008 11 01	691	Mt. Lemmon Survey
(502123)	2015 BC_{13}	2008 10 02	G96	Spacewatch
(502124)	2015 BG_{13}	2010 05 26	G96	WISE
(502125)	2015 BN_{15}	2007 09 10	G96	Mt. Lemmon Survey
(502126)	2015 BA_{16}	2005 03 13	G96	Spacewatch
(502127)	2015 BO_{16}	2006 02 01	G96	Mt. Lemmon Survey
(502128)	2015 BR_{16}	2010 05 15	G96	WISE
(502129)	2015 BC_{18}	2005 11 30	G96	Mt. Lemmon Survey
(502130)	2015 BA_{19}	2007 03 14	F51	Spacewatch
(502131)	2015 BB_{20}	2010 04 15	691	Mt. Lemmon Survey
(502132)	2015 BP_{21}	2000 09 28	F51	Spacewatch
(502133)	2015 BU_{22}	2008 02 01	F51	Mt. Lemmon Survey
(502134)	2015 BZ_{22}	2004 09 07	F51	LINEAR
(502135)	2015 BX_{23}	2008 09 06	F51	Mt. Lemmon Survey
(502136)	2015 BT_{24}	2015 01 16	F51	Pan-STARRS 1
(502137)	2015 BA_{25}	2006 01 05	F51	Mt. Lemmon Survey
(502138)	2015 BL_{25}	2005 11 29	F51	Mt. Lemmon Survey
(502139)	2015 BC_{26}	2008 12 30	F51	Mt. Lemmon Survey
(502140)	2015 BG_{26}	2013 09 14	F51	Pan-STARRS 1
(502141)	2015 BN_{26}	2010 02 17	F51	Spacewatch
(502142)	2015 BU_{26}	2002 03 05	F51	Spacewatch
(502143)	2015 BQ_{27}	2006 02 27	F51	Spacewatch
(502144)	2015 BC_{28}	2006 12 24	F51	Spacewatch
(502145)	2015 BH_{28}	2007 11 20	F51	Mt. Lemmon Survey
(502146)	2015 BJ_{30}	2010 03 18	F51	Mt. Lemmon Survey
(502147)	2015 BY_{31}	2010 05 26	F51	WISE
(502148)	2015 BK_{34}	2005 12 30	F51	Spacewatch
(502149)	2015 BL_{34}	2003 12 29	F51	Spacewatch
(502150)	2015 BO_{34}	2011 06 04	F51	Mt. Lemmon Survey
(502151)	2015 BQ_{34}	1997 03 03	F51	Spacewatch
(502152)	2015 BS_{34}	2004 02 11	F51	Spacewatch
(502153)	2015 BJ_{36}	2007 12 18	F51	Spacewatch
(502154)	2015 BW_{36}	2008 12 31	F51	Spacewatch
(502155)	2015 BH_{38}	2013 08 29	G96	Pan-STARRS 1
(502156)	2015 BO_{41}	2007 03 15	G96	Spacewatch
(502157)	2015 BQ_{41}	2008 05 05	G96	Mt. Lemmon Survey
(502158)	2015 BH_{42}	2007 04 07	G96	Mt. Lemmon Survey
(502159)	2015 BP_{45}	2012 02 28	F51	Pan-STARRS 1
(502160)	2015 BW_{48}	2008 02 10	F51	Spacewatch
(502161)	2015 BV_{53}	2004 01 29	V30	Spacewatch
(502162)	2015 BQ_{57}	2005 12 10	F51	Spacewatch
(502163)	2015 BK_{58}	2013 11 01	F51	Mt. Lemmon Survey
(502164)	2015 BQ_{58}	2006 01 07	F51	Spacewatch
(502165)	2015 BY_{58}	2003 12 29	F51	Spacewatch
(502166)	2015 BZ_{58}	2003 12 17	F51	Spacewatch
(502167)	2015 BA_{59}	2006 09 30	F51	Spacewatch
(502168)	2015 BE_{59}	2007 11 03	F51	Mt. Lemmon Survey
(502169)	2015 BN_{59}	2011 01 30	F51	Pan-STARRS 1
(502170)	2015 BP_{59}	2006 01 23	F51	Spacewatch
(502171)	2015 BR_{59}	2010 06 25	F51	WISE
(502172)	2015 BZ_{59}	2010 12 10	F51	Spacewatch
(502173)	2015 BB_{60}	2010 03 12	F51	Spacewatch
(502174)	2015 BH_{60}	2008 02 03	F51	Spacewatch
(502175)	2015 BE_{61}	2004 01 18	F51	Spacewatch
(502176)	2015 BG_{61}	2007 08 10	F51	Spacewatch
(502177)	2015 BK_{61}	2009 10 27	F51	CSS
(502178)	2015 BS_{61}	2010 11 11	F51	Mt. Lemmon Survey
(502179)	2015 BU_{63}	2015 01 17	F51	Pan-STARRS 1
(502180)	2015 BV_{63}	2005 03 04	F51	Spacewatch

(502181)	2015 BG_{64}	1999 10 03	F51	Spacewatch
(502182)	2015 BA_{65}	2004 02 16	F51	Spacewatch
(502183)	2015 BG_{65}	2010 01 14	F51	Spacewatch
(502184)	2015 BH_{65}	1994 09 12	F51	Spacewatch
(502185)	2015 BK_{66}	2008 09 21	F51	Mt. Lemmon Survey
(502186)	2015 BO_{66}	2013 10 05	F51	Spacewatch
(502187)	2015 BS_{66}	2008 12 22	F51	Spacewatch
(502188)	2015 BT_{66}	2008 12 21	F51	Mt. Lemmon Survey
(502189)	2015 BB_{67}	2010 04 06	F51	Spacewatch
(502190)	2015 BY_{67}	2008 04 01	F51	Mt. Lemmon Survey
(502191)	2015 BA_{68}	2008 11 30	F51	Spacewatch
(502192)	2015 BG_{69}	2008 11 18	F51	Spacewatch
(502193)	2015 BQ_{69}	2004 09 07	F51	Spacewatch
(502194)	2015 BV_{69}	2009 11 26	F51	Mt. Lemmon Survey
(502195)	2015 BY_{69}	2008 10 01	F51	Mt. Lemmon Survey
(502196)	2015 BZ_{69}	2005 12 07	F51	Spacewatch
(502197)	2015 BG_{70}	2009 11 22	F51	Mt. Lemmon Survey
(502198)	2015 BV_{71}	2008 12 29	F51	Spacewatch
(502199)	2015 BW_{71}	2011 04 13	F51	Mt. Lemmon Survey
(502200)	2015 BY_{71}	2008 09 05	F51	Spacewatch
(502201)	2015 BQ_{72}	2004 08 20	F51	Spacewatch
(502202)	2015 BE_{73}	2013 09 14	F51	Pan-STARRS 1
(502203)	2015 BB_{74}	2006 01 26	F51	Mt. Lemmon Survey
(502204)	2015 BK_{74}	2010 06 01	F51	WISE
(502205)	2015 BW_{74}	2002 02 11	F51	Spacewatch
(502206)	2015 BY_{74}	2006 01 31	F51	Spacewatch
(502207)	2015 BZ_{75}	2013 08 29	F51	Pan-STARRS 1
(502208)	2015 BA_{76}	2010 02 16	F51	Spacewatch
(502209)	2015 BN_{77}	2013 10 13	F51	Mt. Lemmon Survey
(502210)	2015 BO_{77}	2005 04 10	F51	Mt. Lemmon Survey
(502211)	2015 BG_{78}	2011 05 13	691	Mt. Lemmon Survey
(502212)	2015 BY_{78}	2005 03 04	G96	Mt. Lemmon Survey
(502213)	2015 BP_{80}	2006 10 02	F51	CSS
(502214)	2015 BF_{81}	2006 11 13	F51	CSS
(502215)	2015 BW_{82}	2010 02 10	G96	WISE
(502216)	2015 BX_{85}	2006 10 16	F51	CSS
(502217)	2015 BF_{86}	2002 01 08	F51	Spacewatch
(502218)	2015 BZ_{86}	2009 11 09	F51	Mt. Lemmon Survey
(502219)	2015 BA_{87}	2014 12 21	F51	Mt. Lemmon Survey
(502220)	2015 BW_{87}	2005 11 06	F51	Mt. Lemmon Survey
(502221)	2015 BB_{88}	2005 04 02	F51	Mt. Lemmon Survey
(502222)	2015 BD_{88}	2008 12 22	F51	Spacewatch
(502223)	2015 BH_{88}	2009 12 20	F51	Spacewatch
(502224)	2015 BK_{88}	2005 11 03	F51	CSS
(502225)	2015 BN_{88}	2008 01 13	F51	Mt. Lemmon Survey
(502226)	2015 BQ_{88}	2008 09 04	F51	Spacewatch
(502227)	2015 BU_{88}	2011 01 16	F51	Mt. Lemmon Survey
(502228)	2015 BA_{89}	2010 10 19	F51	Mt. Lemmon Survey
(502229)	2015 BE_{89}	1999 09 03	F51	Spacewatch
(502230)	2015 BO_{89}	2003 03 09	G96	Spacewatch
(502231)	2015 BV_{89}	2006 11 11	G96	Spacewatch
(502232)	2015 BX_{89}	2011 03 27	G96	Mt. Lemmon Survey
(502233)	2015 BQ_{90}	1998 10 21	F51	ODAS
(502234)	2015 BS_{90}	2015 01 18	G96	Mt. Lemmon Survey
(502235)	2015 BZ_{90}	2002 02 11	F51	LINEAR
(502236)	2015 BA_{91}	2010 01 21	F51	WISE
(502237)	2015 BO_{91}	2010 03 12	691	Mt. Lemmon Survey
(502238)	2015 BN_{93}	2004 10 09	691	Spacewatch
(502239)	2015 BJ_{94}	2011 01 04	G96	Mt. Lemmon Survey
(502240)	2015 BQ_{96}	2008 03 04	G96	Mt. Lemmon Survey
(502241)	2015 BL_{98}	2013 07 14	G96	Pan-STARRS 1
(502242)	2015 BS_{98}	2004 09 16	G96	LONEOS
(502243)	2015 BC_{99}	2005 03 10	G96	Mt. Lemmon Survey
(502244)	2015 BA_{100}	2013 10 09	G96	Mt. Lemmon Survey
(502245)	2015 BC_{100}	2009 11 23	G96	Spacewatch
(502246)	2015 BH_{100}	2006 12 13	G96	Mt. Lemmon Survey
(502247)	2015 BV_{100}	2005 10 30	G96	Mt. Lemmon Survey
(502248)	2015 BS_{101}	2011 06 08	691	Mt. Lemmon Survey
(502249)	2015 BE_{102}	2013 10 02	F51	Pan-STARRS 1
(502250)	2015 BV_{102}	2008 07 30	F51	Mt. Lemmon Survey
(502251)	2015 BJ_{103}	2015 01 16	F51	Pan-STARRS 1
(502252)	2015 BM_{103}	2010 02 09	F51	Spacewatch
(502253)	2015 BP_{107}	2004 09 11	J04	Spacewatch
(502254)	2015 BB_{113}	2010 05 09	G96	WISE
(502255)	2015 BS_{117}	2003 11 23	G96	Spacewatch
(502256)	2015 BS_{118}	2002 03 10	691	ADAS
(502257)	2015 BT_{118}	2013 11 04	691	Mt. Lemmon Survey
(502258)	2015 BK_{119}	1998 12 14	691	Spacewatch
(502259)	2015 BN_{119}	2006 01 25	691	Spacewatch
(502260)	2015 BT_{119}	2006 01 31	691	Spacewatch
(502261)	2015 BM_{120}	2009 11 20	F51	Spacewatch
(502262)	2015 BE_{121}	2008 08 04	F51	Siding Spring Survey
(502263)	2015 BW_{121}	2005 10 24	F51	Spacewatch
(502264)	2015 BD_{122}	2007 04 23	F51	Spacewatch
(502265)	2015 BM_{122}	2010 05 10	F51	WISE
(502266)	2015 BN_{122}	2015 01 17	F51	Pan-STARRS 1
(502267)	2015 BF_{124}	2011 03 30	F51	Mt. Lemmon Survey
(502268)	2015 BH_{124}	2011 04 06	F51	Mt. Lemmon Survey
(502269)	2015 BO_{125}	2010 06 10	F51	WISE
(502270)	2015 BR_{125}	2005 12 27	F51	Spacewatch
(502271)	2015 BQ_{126}	2009 08 28	F51	Spacewatch
(502272)	2015 BM_{128}	2008 10 02	F51	Mt. Lemmon Survey
(502273)	2015 BP_{129}	1995 12 14	F51	Spacewatch
(502274)	2015 BC_{130}	2006 10 04	F51	Mt. Lemmon Survey
(502275)	2015 BQ_{130}	2008 09 04	F51	Spacewatch
(502276)	2015 BY_{132}	2008 11 08	F51	Mt. Lemmon Survey
(502277)	2015 BS_{133}	2005 08 30	F51	Spacewatch
(502278)	2015 BT_{133}	2013 09 28	F51	Mt. Lemmon Survey
(502279)	2015 BP_{134}	2001 12 14	F51	Spacewatch
(502280)	2015 BW_{135}	1999 08 17	F51	Spacewatch
(502281)	2015 BR_{136}	2006 01 26	F51	Spacewatch
(502282)	2015 BD_{138}	2010 06 02	F51	WISE
(502283)	2015 BB_{139}	2013 10 05	F51	Pan-STARRS 1
(502284)	2015 BE_{140}	2008 09 24	F51	Spacewatch

(502285)	2015 BP_{140}	2007 09 10	F51	Mt. Lemmon Survey
(502286)	2015 BT_{140}	2013 10 02	F51	Spacewatch
(502287)	2015 BZ_{140}	2010 10 13	F51	Mt. Lemmon Survey
(502288)	2015 BD_{141}	2007 04 22	F51	Spacewatch
(502289)	2015 BL_{141}	2011 01 25	F51	Mt. Lemmon Survey
(502290)	2015 BO_{141}	2010 03 25	F51	Spacewatch
(502291)	2015 BS_{141}	2008 04 07	F51	Spacewatch
(502292)	2015 BY_{141}	2009 09 18	F51	Mt. Lemmon Survey
(502293)	2015 BK_{142}	2011 03 29	F51	Mt. Lemmon Survey
(502294)	2015 BT_{143}	2008 12 03	F51	Spacewatch
(502295)	2015 BB_{144}	2003 04 09	F51	Spacewatch
(502296)	2015 BB_{146}	2006 10 02	F51	Mt. Lemmon Survey
(502297)	2015 BC_{146}	2011 07 19	F51	Pan-STARRS 1
(502298)	2015 BQ_{146}	2013 08 04	F51	Pan-STARRS 1
(502299)	2015 BJ_{147}	2005 05 03	F51	Spacewatch
(502300)	2015 BK_{147}	2008 09 06	F51	Mt. Lemmon Survey
(502301)	2015 BP_{148}	2010 12 06	F51	Mt. Lemmon Survey
(502302)	2015 BQ_{148}	2008 09 22	F51	Spacewatch
(502303)	2015 BT_{148}	2010 12 06	F51	Spacewatch
(502304)	2015 BL_{149}	1999 03 09	F51	Spacewatch
(502305)	2015 BQ_{149}	2005 03 03	F51	Spacewatch
(502306)	2015 BF_{150}	2013 10 31	F51	Spacewatch
(502307)	2015 BU_{150}	2013 10 15	F51	Spacewatch
(502308)	2015 BA_{151}	2008 09 06	F51	Spacewatch
(502309)	2015 BC_{151}	2013 09 06	F51	Mt. Lemmon Survey
(502310)	2015 BG_{151}	2009 09 22	F51	Mt. Lemmon Survey
(502311)	2015 BQ_{151}	2010 12 13	F51	Mt. Lemmon Survey
(502312)	2015 BA_{153}	2015 01 17	F51	Pan-STARRS 1
(502313)	2015 BV_{153}	2010 12 08	F51	Mt. Lemmon Survey
(502314)	2015 BZ_{154}	2010 02 15	F51	Mt. Lemmon Survey
(502315)	2015 BB_{155}	2010 01 15	F51	Mt. Lemmon Survey
(502316)	2015 BX_{156}	2010 02 09	691	Mt. Lemmon Survey
(502317)	2015 BF_{157}	2015 01 17	G96	Mt. Lemmon Survey
(502318)	2015 BU_{159}	2010 02 16	F51	Spacewatch
(502319)	2015 BW_{159}	1994 09 14	F51	Spacewatch
(502320)	2015 BJ_{160}	2011 04 01	F51	Mt. Lemmon Survey
(502321)	2015 BL_{160}	2008 09 04	F51	Spacewatch
(502322)	2015 BD_{161}	2011 03 02	F51	Mt. Lemmon Survey
(502323)	2015 BX_{163}	2011 01 30	F51	Pan-STARRS 1
(502324)	2015 BM_{164}	2013 10 03	F51	Pan-STARRS 1
(502325)	2015 BO_{165}	2013 11 01	F51	Spacewatch
(502326)	2015 BW_{166}	2006 01 22	F51	Mt. Lemmon Survey
(502327)	2015 BL_{167}	2009 07 28	F51	CSS
(502328)	2015 BM_{168}	2005 03 11	F51	Spacewatch
(502329)	2015 BD_{169}	2005 12 29	F51	Spacewatch
(502330)	2015 BE_{169}	2010 06 04	F51	WISE
(502331)	2015 BW_{171}	2006 09 30	F51	Mt. Lemmon Survey
(502332)	2015 BO_{173}	2011 01 30	F51	Pan-STARRS 1
(502333)	2015 BM_{176}	2010 02 14	F51	Spacewatch
(502334)	2015 BT_{179}	2011 02 04	F51	Pan-STARRS 1
(502335)	2015 BR_{184}	2003 03 10	F51	Spacewatch
(502336)	2015 BA_{185}	2015 01 17	F51	Pan-STARRS 1
(502337)	2015 BB_{186}	2006 11 23	F51	Mt. Lemmon Survey
(502338)	2015 BF_{187}	2004 10 23	F51	Spacewatch
(502339)	2015 BZ_{187}	2009 01 02	F51	Mt. Lemmon Survey
(502340)	2015 BJ_{189}	2008 05 06	F51	Mt. Lemmon Survey
(502341)	2015 BB_{191}	2002 02 11	F51	LINEAR
(502342)	2015 BJ_{193}	2009 12 11	F51	Mt. Lemmon Survey
(502343)	2015 BK_{193}	2013 09 28	F51	Mt. Lemmon Survey
(502344)	2015 BH_{195}	2013 08 14	F51	Pan-STARRS 1
(502345)	2015 BV_{195}	2011 03 27	F51	Mt. Lemmon Survey
(502346)	2015 BJ_{197}	2009 08 27	F51	Spacewatch
(502347)	2015 BP_{198}	2006 02 25	F51	Spacewatch
(502348)	2015 BR_{200}	2006 07 25	F51	Mt. Lemmon Survey
(502349)	2015 BN_{203}	2008 12 31	691	Spacewatch
(502350)	2015 BS_{203}	2010 10 11	691	CSS
(502351)	2015 BH_{204}	2009 09 21	691	Mt. Lemmon Survey
(502352)	2015 BT_{205}	2011 01 09	J04	Mt. Lemmon Survey
(502353)	2015 BU_{205}	2006 01 06	J04	Mt. Lemmon Survey
(502354)	2015 BY_{207}	2005 12 27	F51	Spacewatch
(502355)	2015 BM_{213}	2010 05 12	G96	WISE
(502356)	2015 BV_{213}	2009 12 17	691	Spacewatch
(502357)	2015 BT_{215}	2005 12 05	F51	Mt. Lemmon Survey
(502358)	2015 BT_{222}	2007 10 11	G96	Spacewatch
(502359)	2015 BW_{222}	2004 08 23	F51	Spacewatch
(502360)	2015 BJ_{223}	2014 12 26	F51	Pan-STARRS 1
(502361)	2015 BS_{224}	2009 11 26	F51	Mt. Lemmon Survey
(502362)	2015 BL_{225}	1995 10 16	F51	Spacewatch
(502363)	2015 BO_{231}	2009 09 17	F51	Spacewatch
(502364)	2015 BK_{233}	2008 11 21	F51	Mt. Lemmon Survey
(502365)	2015 BR_{233}	2008 09 06	F51	Mt. Lemmon Survey
(502366)	2015 BQ_{238}	2005 12 06	F51	Spacewatch
(502367)	2015 BR_{238}	2012 06 12	G96	Spacewatch
(502368)	2015 BZ_{238}	2006 11 18	G96	Spacewatch
(502369)	2015 BG_{240}	2006 01 08	F51	Mt. Lemmon Survey
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(502371)	2015 BU_{240}	2012 05 21	F51	Mt. Lemmon Survey
(502372)	2015 BH_{241}	2006 01 06	F51	Spacewatch
(502373)	2015 BL_{241}	2009 08 20	F51	Spacewatch
(502374)	2015 BE_{242}	2007 02 21	F51	Mt. Lemmon Survey
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(502377)	2015 BV_{242}	2011 03 04	F51	Mt. Lemmon Survey
(502378)	2015 BW_{242}	2010 01 13	F51	WISE
(502379)	2015 BC_{243}	2006 01 05	F51	Spacewatch
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(502453) 2015 BZ_{292} 2008 12 30 G96 CSS
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(502474) 2015 BY_{338} 2005 06 04 F51 Spacewatch
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(502478) 2015 BO_{341} 2013 11 10 F51 Mt. Lemmon Survey
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(502489) 2015 BR_{356} 2005 05 10 691 Spacewatch
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(502491) 2015 BF_{357} 2010 02 06 691 Spacewatch
(502492) 2015 BO_{357} 2011 03 31 691 Pan-STARRS 1

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(502496)	2015 BY_{395}	2010 10 31	F51	Mt. Lemmon Survey
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(502498)	2015 BD_{398}	2011 03 30	691	Mt. Lemmon Survey
(502499)	2015 BD_{401}	2009 10 24	F51	Spacewatch
(502500)	2015 BD_{405}	2010 12 03	F51	Spacewatch
(502501)	2015 BW_{406}	2004 08 20	F51	Spacewatch
(502502)	2015 BN_{411}	2015 01 20	F51	Pan-STARRS 1
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(502505)	2015 BE_{420}	2012 08 26	F51	Pan-STARRS 1
(502506)	2015 BK_{420}	2009 12 20	F51	Spacewatch
(502507)	2015 BQ_{420}	2012 08 26	F51	Pan-STARRS 1
(502508)	2015 BU_{421}	2007 09 04	F51	Mt. Lemmon Survey
(502509)	2015 BP_{422}	2002 01 21	F51	Spacewatch
(502510)	2015 BR_{422}	2013 09 13	F51	CSS
(502511)	2015 BU_{422}	2008 09 07	F51	Mt. Lemmon Survey
(502512)	2015 BB_{423}	2015 01 20	F51	Pan-STARRS 1
(502513)	2015 BR_{424}	2010 03 18	F51	Mt. Lemmon Survey
(502514)	2015 BK_{426}	2007 09 14	F51	Spacewatch
(502515)	2015 BR_{426}	2007 11 20	F51	Mt. Lemmon Survey
(502516)	2015 BZ_{429}	2007 03 14	F51	Mt. Lemmon Survey
(502517)	2015 BQ_{430}	2008 12 30	F51	Spacewatch
(502518)	2015 BC_{432}	2010 06 10	F51	WISE
(502519)	2015 BL_{433}	2006 01 23	F51	Spacewatch
(502520)	2015 BY_{433}	2006 03 04	F51	Mt. Lemmon Survey
(502521)	2015 BA_{434}	2009 12 18	F51	Spacewatch
(502522)	2015 BO_{434}	2006 03 02	F51	Spacewatch
(502523)	2015 BC_{435}	2006 02 25	F51	Spacewatch
(502524)	2015 BY_{435}	2015 01 20	F51	Pan-STARRS 1
(502525)	2015 BK_{436}	2009 09 15	F51	Spacewatch
(502526)	2015 BD_{437}	2008 10 17	F51	Spacewatch
(502527)	2015 BA_{438}	2006 02 04	F51	Spacewatch
(502528)	2015 BM_{438}	2013 11 28	F51	Mt. Lemmon Survey
(502529)	2015 BY_{438}	2007 09 10	F51	Mt. Lemmon Survey
(502530)	2015 BG_{439}	2009 12 18	F51	Spacewatch
(502531)	2015 BP_{439}	2012 08 26	F51	Pan-STARRS 1
(502532)	2015 BU_{439}	2006 02 25	F51	Mt. Lemmon Survey
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(502534)	2015 BH_{440}	2005 02 14	F51	Spacewatch
(502535)	2015 BF_{442}	2008 09 06	F51	Mt. Lemmon Survey
(502536)	2015 BU_{442}	2010 02 14	691	Mt. Lemmon Survey
(502537)	2015 BK_{443}	2010 01 06	F51	Spacewatch
(502538)	2015 BY_{445}	2013 11 06	F51	Pan-STARRS 1
(502539)	2015 BC_{446}	2009 10 21	F51	Mt. Lemmon Survey
(502540)	2015 BM_{449}	2008 12 30	F51	Spacewatch
(502541)	2015 BG_{450}	2008 12 04	F51	Mt. Lemmon Survey
(502542)	2015 BH_{450}	2009 12 18	F51	Mt. Lemmon Survey
(502543)	2015 BQ_{451}	2006 10 23	F51	Mt. Lemmon Survey
(502544)	2015 BZ_{456}	2010 03 15	691	Mt. Lemmon Survey
(502545)	2015 BP_{457}	2005 12 03	F51	Spacewatch
(502546)	2015 BQ_{459}	2005 12 27	F51	Spacewatch
(502547)	2015 BP_{463}	2013 11 06	F51	Pan-STARRS 1
(502548)	2015 BA_{466}	2008 09 21	F51	Mt. Lemmon Survey
(502549)	2015 BM_{467}	2009 12 18	691	Mt. Lemmon Survey
(502550)	2015 BG_{468}	2009 12 26	691	Spacewatch
(502551)	2015 BJ_{468}	2011 03 14	691	Mt. Lemmon Survey
(502552)	2015 BD_{469}	2010 02 15	691	WISE
(502553)	2015 BV_{470}	2009 11 18	F51	Mt. Lemmon Survey
(502554)	2015 BO_{472}	2006 09 18	F51	Spacewatch
(502555)	2015 BU_{472}	2008 09 05	F51	Spacewatch
(502556)	2015 BZ_{474}	2013 08 09	F51	Spacewatch
(502557)	2015 BC_{475}	2006 02 01	F51	Spacewatch
(502558)	2015 BK_{480}	2009 10 18	F51	Mt. Lemmon Survey
(502559)	2015 BL_{483}	2007 09 12	F51	Mt. Lemmon Survey
(502560)	2015 BE_{484}	2007 06 21	F51	Mt. Lemmon Survey
(502561)	2015 BU_{484}	1999 10 31	F51	Spacewatch
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(502563)	2015 BH_{488}	2010 12 07	F51	Mt. Lemmon Survey
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(502565)	2015 BN_{493}	2006 02 04	F51	Spacewatch
(502566)	2015 BY_{493}	2006 03 02	F51	Spacewatch
(502567)	2015 BW_{496}	2011 04 05	F51	Mt. Lemmon Survey
(502568)	2015 BK_{497}	2013 09 28	F51	Mt. Lemmon Survey
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(502571)	2015 BE_{501}	2008 09 24	F51	Mt. Lemmon Survey
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(502573)	2015 BB_{503}	2004 10 06	F51	Spacewatch
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(502577)	2015 BJ_{507}	2008 09 28	F51	Mt. Lemmon Survey
(502578)	2015 BP_{507}	2011 04 15	F51	Pan-STARRS 1
(502579)	2015 BJ_{512}	2010 10 05	J43	Siding Spring Survey
(502580)	2015 BJ_{513}	2006 11 16	J43	Spacewatch
(502581)	2015 CJ_{1}	2013 08 26	F51	Pan-STARRS 1
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(502583)	2015 CJ_{3}	2011 01 23	G96	Mt. Lemmon Survey
(502584)	2015 CX_{3}	2008 09 25	G96	Mt. Lemmon Survey
(502585)	2015 CH_{4}	2007 05 11	G96	Mt. Lemmon Survey
(502586)	2015 CP_{4}	2011 03 13	G96	Spacewatch
(502587)	2015 CJ_{5}	2004 01 19	G96	Spacewatch
(502588)	2015 CN_{5}	2005 11 30	G96	Spacewatch
(502589)	2015 CS_{5}	2011 03 06	691	Spacewatch
(502590)	2015 CK_{7}	2007 08 10	G96	Spacewatch
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(502592)	2015 CS_{7}	2010 01 14	G96	WISE
(502593)	2015 CW_{8}	2009 12 19	691	Spacewatch
(502594)	2015 CB_{9}	2013 11 02	G96	Mt. Lemmon Survey
(502595)	2015 CP_{9}	2005 08 29	G96	Spacewatch
(502596)	2015 CW_{9}	2006 10 16	G96	Spacewatch

(502597)	2015 CZ_{9}	2009 01 03	G96	Spacewatch
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(502599)	2015 CQ_{10}	2005 04 11	D29	Mt. Lemmon Survey
(502600)	2015 CZ_{10}	2004 09 17	G96	Spacewatch
(502601)	2015 CY_{11}	2008 09 22	G96	Spacewatch
(502602)	2015 CD_{14}	2013 11 29	691	Pan-STARRS 1
(502603)	2015 CK_{14}	2005 12 28	G96	Spacewatch
(502604)	2015 CN_{14}	2005 04 04	G96	Mt. Lemmon Survey
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(502606)	2015 CE_{15}	2007 10 04	G96	Spacewatch
(502607)	2015 CB_{16}	2008 08 24	G96	Spacewatch
(502608)	2015 CW_{16}	2007 09 09	G96	Spacewatch
(502609)	2015 CF_{17}	2010 01 13	D29	WISE
(502610)	2015 CY_{18}	2008 09 05	G96	Spacewatch
(502611)	2015 CF_{19}	2006 02 02	G96	Spacewatch
(502612)	2015 CJ_{19}	1999 12 08	G96	Spacewatch
(502613)	2015 CE_{20}	2010 06 12	D29	WISE
(502614)	2015 CW_{20}	2006 01 31	G96	Spacewatch
(502615)	2015 CB_{21}	2004 09 07	G96	Spacewatch
(502616)	2015 CW_{21}	2011 02 10	G96	Mt. Lemmon Survey
(502617)	2015 CU_{22}	2008 02 11	G96	Mt. Lemmon Survey
(502618)	2015 CO_{23}	2005 04 02	G96	Spacewatch
(502619)	2015 CU_{23}	2009 08 18	G96	Spacewatch
(502620)	2015 CO_{24}	2006 11 16	G96	CSS
(502621)	2015 CP_{25}	2006 03 02	G96	Mt. Lemmon Survey
(502622)	2015 CF_{26}	1999 01 08	G96	Spacewatch
(502623)	2015 CV_{26}	2006 09 18	G96	Spacewatch
(502624)	2015 CY_{27}	2006 02 06	G96	Spacewatch
(502625)	2015 CG_{29}	2010 06 11	F51	WISE
(502626)	2015 CK_{29}	2010 03 15	F51	Mt. Lemmon Survey
(502627)	2015 CU_{29}	2007 03 10	G96	Mt. Lemmon Survey
(502628)	2015 CB_{30}	2008 10 01	G96	Spacewatch
(502629)	2015 CC_{30}	2011 03 30	G96	Mt. Lemmon Survey
(502630)	2015 CF_{30}	2006 01 23	G96	Spacewatch
(502631)	2015 CG_{30}	2010 02 14	G96	Mt. Lemmon Survey
(502632)	2015 CQ_{30}	2007 05 09	F51	Mt. Lemmon Survey
(502633)	2015 CR_{31}	2011 01 30	F51	Pan-STARRS 1
(502634)	2015 CX_{31}	2011 01 26	F51	Mt. Lemmon Survey
(502635)	2015 CY_{32}	2006 01 06	691	CSS
(502636)	2015 CZ_{32}	2010 04 16	691	WISE
(502637)	2015 CF_{33}	2008 09 22	D29	Mt. Lemmon Survey
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(502639)	2015 CD_{35}	2015 01 14	F51	Pan-STARRS 1
(502640)	2015 CH_{38}	2004 02 29	F51	Spacewatch
(502641)	2015 CN_{38}	2011 03 31	F51	Pan-STARRS 1
(502642)	2015 CM_{39}	2004 09 16	691	Spacewatch
(502643)	2015 CS_{41}	2004 01 22	J04	LINEAR
(502644)	2015 CB_{42}	2006 12 25	D29	Spacewatch
(502645)	2015 CR_{42}	2010 06 24	F51	WISE
(502646)	2015 CW_{42}	2008 09 07	F51	Mt. Lemmon Survey
(502647)	2015 CX_{42}	2008 09 04	F51	Spacewatch
(502648)	2015 CC_{43}	2008 01 16	F51	Spacewatch
(502649)	2015 CF_{43}	2010 06 03	F51	WISE
(502650)	2015 CG_{43}	2009 01 01	F51	Spacewatch
(502651)	2015 CK_{43}	2008 09 07	F51	CSS
(502652)	2015 CX_{43}	2010 03 14	F51	Spacewatch
(502653)	2015 CE_{44}	2008 08 24	F51	Spacewatch
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(502656)	2015 CS_{46}	2004 02 12	F51	Spacewatch
(502657)	2015 CO_{48}	2009 12 20	F51	Mt. Lemmon Survey
(502658)	2015 CU_{48}	2006 02 24	F51	Spacewatch
(502659)	2015 CN_{49}	2008 07 30	F51	Spacewatch
(502660)	2015 CY_{49}	2004 10 23	F51	Spacewatch
(502661)	2015 CC_{50}	2010 02 19	F51	Spacewatch
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(502664)	2015 CF_{51}	2004 02 23	F51	LINEAR
(502665)	2015 CM_{51}	2008 09 24	F51	Spacewatch
(502666)	2015 CX_{52}	2012 08 14	F51	Pan-STARRS 1
(502667)	2015 CB_{53}	2012 10 05	F51	Pan-STARRS 1
(502668)	2015 CD_{53}	2008 11 03	F51	CSS
(502669)	2015 CG_{53}	2006 11 17	F51	Mt. Lemmon Survey
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(502672)	2015 CC_{54}	2003 10 01	F51	Spacewatch
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(502674)	2015 CZ_{54}	2009 01 31	F51	Mt. Lemmon Survey
(502675)	2015 CH_{56}	2007 09 14	F51	Mt. Lemmon Survey
(502676)	2015 CN_{56}	2006 09 17	F51	CSS
(502677)	2015 CO_{56}	2015 01 23	F51	Pan-STARRS 1
(502678)	2015 CQ_{56}	2007 09 11	F51	Mt. Lemmon Survey
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(502681)	2015 CS_{57}	2007 09 10	F51	Spacewatch
(502682)	2015 CT_{57}	2003 09 21	F51	Spacewatch
(502683)	2015 CB_{58}	1998 03 01	F51	Spacewatch
(502684)	2015 CX_{58}	1995 02 24	F51	Spacewatch
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(502686)	2015 CE_{61}	2013 11 25	G45	PMO NEO Survey Program
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(502694)	2015 DN_{9}	1996 10 05	F51	Spacewatch
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(502703)	2015 DY_{18}	2007 10 06	F51	Spacewatch
(502704)	2015 DG_{19}	2006 01 23	F51	Spacewatch
(502705)	2015 DC_{20}	2008 12 30	F51	Mt. Lemmon Survey
(502706)	2015 DO_{20}	2008 10 02	F51	Mt. Lemmon Survey
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(502708)	2015 DD_{21}	2007 01 17	F51	Spacewatch
(502709)	2015 DE_{22}	2010 02 10	F51	WISE
(502710)	2015 DH_{22}	2009 11 22	F51	Spacewatch
(502711)	2015 DR_{22}	1998 01 29	F51	Spacewatch
(502712)	2015 DM_{23}	2006 02 27	F51	Spacewatch
(502713)	2015 DS_{24}	2008 08 04	F51	Siding Spring Survey
(502714)	2015 DZ_{24}	2006 12 21	F51	Spacewatch
(502715)	2015 DF_{25}	2011 03 30	F51	Mt. Lemmon Survey
(502716)	2015 DP_{26}	2008 09 23	F51	Mt. Lemmon Survey
(502717)	2015 DN_{27}	2009 11 10	F51	Spacewatch
(502718)	2015 DZ_{27}	2013 10 03	F51	Mt. Lemmon Survey
(502719)	2015 DH_{28}	2009 01 02	F51	Mt. Lemmon Survey
(502720)	2015 DN_{28}	2007 04 23	F51	Spacewatch
(502721)	2015 DT_{30}	2002 02 09	F51	Spacewatch
(502722)	2015 DY_{30}	2011 04 06	F51	Mt. Lemmon Survey
(502723)	2015 DA_{31}	2008 04 07	F51	Mt. Lemmon Survey
(502724)	2015 DY_{31}	2010 03 18	F51	Mt. Lemmon Survey
(502725)	2015 DC_{32}	2013 09 09	F51	Pan-STARRS 1
(502726)	2015 DJ_{32}	2011 05 03	F51	Mt. Lemmon Survey
(502727)	2015 DM_{32}	2009 11 17	F51	Mt. Lemmon Survey
(502728)	2015 DA_{33}	2001 02 17	F51	LINEAR
(502729)	2015 DC_{33}	2006 01 23	F51	Spacewatch
(502730)	2015 DL_{33}	2004 03 18	F51	LINEAR
(502731)	2015 DX_{33}	2006 09 19	F51	Spacewatch
(502732)	2015 DY_{34}	2005 01 17	F51	Spacewatch
(502733)	2015 DZ_{34}	2009 03 01	F51	Mt. Lemmon Survey
(502734)	2015 DW_{35}	2007 09 12	F51	Mt. Lemmon Survey
(502735)	2015 DG_{36}	2013 08 14	F51	Pan-STARRS 1
(502736)	2015 DG_{37}	2010 02 16	F51	Spacewatch
(502737)	2015 DD_{38}	2007 11 08	F51	Spacewatch
(502738)	2015 DF_{38}	2008 09 24	F51	Spacewatch
(502739)	2015 DP_{38}	2013 11 29	F51	Pan-STARRS 1
(502740)	2015 DH_{40}	2006 05 08	F51	Mt. Lemmon Survey
(502741)	2015 DR_{42}	2009 11 19	F51	Mt. Lemmon Survey
(502742)	2015 DX_{42}	2010 03 20	F51	Mt. Lemmon Survey
(502743)	2015 DU_{44}	2008 10 22	F51	Mt. Lemmon Survey
(502744)	2015 DW_{44}	2008 10 29	F51	Mt. Lemmon Survey
(502745)	2015 DM_{45}	2008 12 31	F51	Spacewatch
(502746)	2015 DX_{45}	2005 10 07	F51	CSS
(502747)	2015 DZ_{45}	2010 02 09	F51	Mt. Lemmon Survey
(502748)	2015 DH_{46}	2013 12 25	F51	Mt. Lemmon Survey
(502749)	2015 DR_{46}	2008 12 02	F51	Spacewatch
(502750)	2015 DR_{48}	2011 03 27	F51	Mt. Lemmon Survey
(502751)	2015 DV_{48}	2010 07 01	F51	WISE
(502752)	2015 DV_{50}	2002 04 09	F51	Spacewatch
(502753)	2015 DM_{53}	2005 04 02	F51	Spacewatch
(502754)	2015 DN_{57}	2006 08 19	F51	Spacewatch
(502755)	2015 DQ_{58}	2004 01 16	F51	Spacewatch
(502756)	2015 DX_{58}	2005 03 08	F51	Mt. Lemmon Survey
(502757)	2015 DQ_{63}	2006 03 04	F51	Spacewatch
(502758)	2015 DN_{65}	2010 03 20	F51	Mt. Lemmon Survey
(502759)	2015 DH_{66}	2006 10 22	F51	Spacewatch
(502760)	2015 DE_{68}	2009 11 26	F51	Spacewatch
(502761)	2015 DT_{68}	2006 07 21	F51	Mt. Lemmon Survey
(502762)	2015 DW_{68}	2005 11 25	F51	Spacewatch
(502763)	2015 DZ_{69}	2011 01 14	F51	Spacewatch
(502764)	2015 DZ_{73}	2010 01 06	F51	Mt. Lemmon Survey
(502765)	2015 DQ_{74}	2013 12 27	F51	Mt. Lemmon Survey
(502766)	2015 DG_{76}	2002 04 22	F51	Spacewatch
(502767)	2015 DZ_{80}	2010 04 14	F51	Mt. Lemmon Survey
(502768)	2015 DL_{81}	2008 12 31	F51	Spacewatch
(502769)	2015 DO_{81}	2010 03 15	F51	Spacewatch
(502770)	2015 DV_{81}	2000 12 18	F51	Spacewatch
(502771)	2015 DN_{82}	2006 01 25	F51	Spacewatch
(502772)	2015 DA_{83}	2010 03 21	F51	Spacewatch
(502773)	2015 DV_{83}	2010 02 05	F51	WISE
(502774)	2015 DF_{87}	2008 09 22	F51	Spacewatch
(502775)	2015 DB_{89}	2013 10 09	F51	Mt. Lemmon Survey
(502776)	2015 DD_{89}	1999 02 08	F51	Spacewatch
(502777)	2015 DX_{89}	2005 09 29	F51	Mt. Lemmon Survey
(502778)	2015 DR_{90}	2010 03 15	F51	Mt. Lemmon Survey
(502779)	2015 DD_{92}	2007 09 11	F51	Mt. Lemmon Survey
(502780)	2015 DX_{92}	2006 02 27	F51	Spacewatch
(502781)	2015 DO_{94}	2008 12 21	F51	Spacewatch
(502782)	2015 DC_{97}	2010 02 18	F51	Spacewatch
(502783)	2015 DK_{97}	2008 10 06	F51	Mt. Lemmon Survey
(502784)	2015 DQ_{97}	2006 01 21	F51	Spacewatch
(502785)	2015 DA_{98}	2008 09 23	F51	Mt. Lemmon Survey
(502786)	2015 DD_{98}	2003 03 26	F51	Spacewatch
(502787)	2015 DE_{98}	2008 09 02	F51	Spacewatch
(502788)	2015 DT_{98}	2006 08 19	F51	Spacewatch
(502789)	2015 DP_{99}	2008 12 21	F51	Mt. Lemmon Survey
(502790)	2015 DQ_{99}	2006 03 23	F51	Spacewatch
(502791)	2015 DX_{99}	2009 11 09	703	Mt. Lemmon Survey
(502792)	2015 DY_{99}	2005 04 07	703	Siding Spring Survey
(502793)	2015 DF_{100}	2010 06 17	F51	WISE
(502794)	2015 DJ_{102}	2005 11 25	F51	Spacewatch
(502795)	2015 DR_{104}	2013 09 25	F51	Mt. Lemmon Survey
(502796)	2015 DJ_{105}	2007 02 26	F51	Mt. Lemmon Survey
(502797)	2015 DL_{105}	2009 09 25	691	Spacewatch
(502798)	2015 DD_{107}	2001 12 19	F51	Spacewatch
(502799)	2015 DE_{107}	2002 03 21	F51	Spacewatch
(502800)	2015 DP_{107}	2002 02 06	F51	LINEAR
(502801)	2015 DZ_{108}	2011 03 31	F51	Pan-STARRS 1
(502802)	2015 DB_{109}	2013 10 25	F51	Mt. Lemmon Survey
(502803)	2015 DV_{110}	2010 04 12	F51	Mt. Lemmon Survey
(502804)	2015 DD_{111}	2013 11 28	F51	Mt. Lemmon Survey

(502805)	2015 DP_{111}	2013 09 03	F51	Pan-STARRS 1
(502806)	2015 DX_{111}	2007 05 11	F51	Mt. Lemmon Survey
(502807)	2015 DB_{112}	2011 04 05	F51	Spacewatch
(502808)	2015 DR_{112}	2010 02 17	F51	CSS
(502809)	2015 DS_{112}	2007 04 25	F51	Mt. Lemmon Survey
(502810)	2015 DW_{112}	2011 04 02	F51	Mt. Lemmon Survey
(502811)	2015 DO_{117}	2004 11 04	691	Spacewatch
(502812)	2015 DO_{118}	2010 01 08	F51	Mt. Lemmon Survey
(502813)	2015 DU_{119}	2013 11 02	F51	Mt. Lemmon Survey
(502814)	2015 DV_{120}	2008 12 31	F51	Mt. Lemmon Survey
(502815)	2015 DP_{121}	2010 02 08	F51	WISE
(502816)	2015 DZ_{122}	2005 09 30	F51	Mt. Lemmon Survey
(502817)	2015 DM_{123}	2005 12 05	F51	Spacewatch
(502818)	2015 DA_{127}	2010 02 13	F51	WISE
(502819)	2015 DM_{127}	2011 02 05	F51	Mt. Lemmon Survey
(502820)	2015 DK_{131}	2010 02 16	F51	Mt. Lemmon Survey
(502821)	2015 DC_{135}	2004 09 14	F51	LONEOS
(502822)	2015 DU_{135}	2004 12 12	F51	Spacewatch
(502823)	2015 DM_{139}	2006 01 26	G96	Mt. Lemmon Survey
(502824)	2015 DH_{143}	2010 09 02	F51	Mt. Lemmon Survey
(502825)	2015 DK_{144}	2001 12 11	F51	LINEAR
(502826)	2015 DA_{145}	2007 02 21	F51	CSS
(502827)	2015 DG_{146}	2005 03 17	F51	Mt. Lemmon Survey
(502828)	2015 DJ_{148}	2008 04 15	F51	Mt. Lemmon Survey
(502829)	2015 DK_{148}	2011 03 09	F51	Mt. Lemmon Survey
(502830)	2015 DS_{149}	2005 12 05	F51	Spacewatch
(502831)	2015 DU_{149}	2010 06 24	F51	WISE
(502832)	2015 DD_{150}	2004 09 16	F51	LINEAR
(502833)	2015 DQ_{151}	2010 05 13	G96	Mt. Lemmon Survey
(502834)	2015 DV_{151}	2008 09 20	F51	Spacewatch
(502835)	2015 DG_{152}	2008 10 24	F51	Mt. Lemmon Survey
(502836)	2015 DL_{152}	2004 12 10	F51	Spacewatch
(502837)	2015 DB_{153}	2008 10 29	F51	Mt. Lemmon Survey
(502838)	2015 DT_{153}	2010 01 07	F51	Spacewatch
(502839)	2015 DF_{154}	2011 06 03	F51	Mt. Lemmon Survey
(502840)	2015 DY_{155}	2009 11 27	703	Mt. Lemmon Survey
(502841)	2015 DZ_{163}	2010 02 13	F51	Mt. Lemmon Survey
(502842)	2015 DR_{165}	2007 11 07	F51	CSS
(502843)	2015 DB_{166}	2015 02 18	F51	Pan-STARRS 1
(502844)	2015 DF_{166}	2006 02 01	F51	Spacewatch
(502845)	2015 DW_{167}	2008 10 06	F51	Mt. Lemmon Survey
(502846)	2015 DX_{167}	2006 09 26	F51	Spacewatch
(502847)	2015 DZ_{169}	2009 11 20	F51	Spacewatch
(502848)	2015 DA_{171}	2014 12 30	F51	Pan-STARRS 1
(502849)	2015 DV_{172}	2007 03 14	F51	Mt. Lemmon Survey
(502850)	2015 DS_{173}	2008 12 30	G96	Spacewatch
(502851)	2015 DK_{175}	2009 11 17	F51	Mt. Lemmon Survey
(502852)	2015 DX_{176}	2012 06 10	F51	Pan-STARRS 1
(502853)	2015 DO_{178}	2013 11 08	F51	CSS
(502854)	2015 DU_{179}	2011 03 11	F51	Mt. Lemmon Survey
(502855)	2015 DB_{180}	2006 01 30	F51	CSS
(502856)	2015 DJ_{180}	2006 10 20	F51	Spacewatch
(502857)	2015 DL_{185}	2007 09 14	F51	Mt. Lemmon Survey
(502858)	2015 DF_{189}	2010 04 10	F51	Mt. Lemmon Survey
(502859)	2015 DD_{190}	2008 11 24	F51	Mt. Lemmon Survey
(502860)	2015 DX_{196}	2002 02 07	F51	LINEAR
(502861)	2015 DA_{197}	2010 02 15	F51	CSS
(502862)	2015 DV_{201}	2004 02 12	695	Spacewatch
(502863)	2015 DL_{202}	2005 01 19	F51	Spacewatch
(502864)	2015 DM_{202}	2010 01 16	F51	Spacewatch
(502865)	2015 DT_{202}	2012 09 16	F51	CSS
(502866)	2015 DU_{202}	2012 10 08	F51	Mt. Lemmon Survey
(502867)	2015 DH_{203}	2010 01 15	F51	Mt. Lemmon Survey
(502868)	2015 DE_{204}	2003 09 29	F51	Spacewatch
(502869)	2015 DK_{204}	2009 01 31	F51	Spacewatch
(502870)	2015 DE_{205}	2012 10 08	F51	Pan-STARRS 1
(502871)	2015 DX_{205}	2006 08 28	F51	Spacewatch
(502872)	2015 DY_{205}	2010 02 17	F51	Spacewatch
(502873)	2015 DF_{207}	2004 02 12	F51	Spacewatch
(502874)	2015 DS_{207}	2010 02 15	F51	CSS
(502875)	2015 DU_{209}	2013 12 31	F51	Spacewatch
(502876)	2015 DY_{209}	2009 01 31	F51	Mt. Lemmon Survey
(502877)	2015 DA_{210}	2004 05 13	F51	Spacewatch
(502878)	2015 DQ_{211}	2015 02 23	F51	Pan-STARRS 1
(502879)	2015 DY_{212}	2004 03 16	F51	Spacewatch
(502880)	2015 DZ_{212}	2008 10 06	F51	Mt. Lemmon Survey
(502881)	2015 DJ_{214}	2006 08 18	F51	Spacewatch
(502882)	2015 DO_{216}	2007 11 20	F51	Mt. Lemmon Survey
(502883)	2015 DY_{216}	2004 03 15	691	Spacewatch
(502884)	2015 DK_{217}	2010 03 13	F51	WISE
(502885)	2015 DS_{217}	2007 11 14	F51	Spacewatch
(502886)	2015 DL_{219}	2009 02 16	F51	OAM
(502887)	2015 DD_{220}	2007 10 08	F51	CSS
(502888)	2015 DO_{220}	2012 09 19	F51	Mt. Lemmon Survey
(502889)	2015 DU_{220}	2011 03 12	F51	Siding Spring Survey
(502890)	2015 DX_{220}	2012 10 09	F51	Pan-STARRS 1
(502891)	2015 DC_{221}	2006 08 28	G96	Spacewatch
(502892)	2015 DJ_{222}	2010 03 13	691	Spacewatch
(502893)	2015 DA_{223}	2010 10 31	F51	Spacewatch
(502894)	2015 DD_{223}	2015 01 20	F51	Pan-STARRS 1
(502895)	2015 DL_{223}	2006 11 18	J43	Mt. Lemmon Survey
(502896)	2015 EH_2	2009 11 24	G96	Mt. Lemmon Survey
(502897)	2015 EL_3	2007 03 11	691	Spacewatch
(502898)	2015 EA_4	2006 08 28	691	Spacewatch
(502899)	2015 EW_5	2007 09 13	691	Mt. Lemmon Survey
(502900)	2015 EH_6	2011 04 03	D29	Pan-STARRS 1
(502901)	2015 EU_7	2006 02 27	D29	CSS
(502902)	2015 EZ_8	2007 10 15	691	Mt. Lemmon Survey
(502903)	2015 EB_9	2005 02 01	691	Spacewatch
(502904)	2015 EL_9	2008 09 03	691	Spacewatch
(502905)	2015 EP_{10}	2007 03 20	F51	Spacewatch
(502906)	2015 EA_{11}	2004 10 07	F51	Spacewatch
(502907)	2015 ES_{12}	1995 09 18	F51	Spacewatch
(502908)	2015 EV_{12}	2013 10 03	F51	Pan-STARRS 1

(502909)	2015 EY_{12}	1998 11 14	F51	Spacewatch
(502910)	2015 ET_{14}	2013 11 29	F51	Pan-STARRS 1
(502911)	2015 EK_{15}	2006 02 24	F51	Spacewatch
(502912)	2015 EW_{16}	2009 11 24	F51	Spacewatch
(502913)	2015 EB_{17}	2010 01 14	F51	WISE
(502914)	2015 EW_{17}	2006 03 04	F51	Spacewatch
(502915)	2015 ED_{18}	2004 09 10	F51	Spacewatch
(502916)	2015 EC_{19}	2010 01 23	F51	WISE
(502917)	2015 ED_{20}	2006 08 21	F51	Spacewatch
(502918)	2015 EH_{20}	2006 01 31	F51	Mt. Lemmon Survey
(502919)	2015 EE_{22}	2013 09 27	F51	Pan-STARRS 1
(502920)	2015 EJ_{22}	2010 01 23	F51	WISE
(502921)	2015 EX_{23}	2007 11 05	F51	Spacewatch
(502922)	2015 EK_{25}	2006 02 02	F51	Mt. Lemmon Survey
(502923)	2015 EO_{25}	2012 08 26	F51	Pan-STARRS 1
(502924)	2015 EM_{27}	2008 09 02	F51	Spacewatch
(502925)	2015 EZ_{27}	2006 01 26	F51	Spacewatch
(502926)	2015 EX_{29}	1995 11 16	F51	Spacewatch
(502927)	2015 EF_{30}	2012 09 24	F51	Mt. Lemmon Survey
(502928)	2015 EV_{30}	2008 12 31	F51	Spacewatch
(502929)	2015 EJ_{33}	2006 02 24	F51	Mt. Lemmon Survey
(502930)	2015 EP_{33}	2010 01 07	F51	Spacewatch
(502931)	2015 ET_{33}	2010 01 11	F51	Mt. Lemmon Survey
(502932)	2015 EX_{34}	2008 11 09	F51	Spacewatch
(502933)	2015 EG_{37}	2004 11 11	F51	Spacewatch
(502934)	2015 EF_{39}	2011 03 31	F51	Pan-STARRS 1
(502935)	2015 EL_{39}	2006 02 27	F51	Spacewatch
(502936)	2015 EB_{40}	2010 02 16	F51	Mt. Lemmon Survey
(502937)	2015 EO_{40}	2007 03 11	F51	Spacewatch
(502938)	2015 EQ_{44}	2004 01 17	F51	Spacewatch
(502939)	2015 EP_{45}	2011 03 27	F51	Spacewatch
(502940)	2015 EE_{46}	2010 02 19	F51	Mt. Lemmon Survey
(502941)	2015 EA_{47}	2006 01 27	F51	Mt. Lemmon Survey
(502942)	2015 EO_{51}	2013 08 15	F51	Pan-STARRS 1
(502943)	2015 EG_{52}	2007 10 19	F51	Spacewatch
(502944)	2015 EC_{54}	2004 02 18	F51	Spacewatch
(502945)	2015 ED_{55}	2010 02 17	F51	Spacewatch
(502946)	2015 EK_{57}	1998 04 21	F51	LINEAR
(502947)	2015 EP_{58}	2003 11 23	F51	Spacewatch
(502948)	2015 ER_{58}	2004 04 30	F51	Spacewatch
(502949)	2015 ED_{59}	2006 01 22	F51	Mt. Lemmon Survey
(502950)	2015 EF_{59}	2009 11 10	F51	Mt. Lemmon Survey
(502951)	2015 EU_{59}	2006 02 22	691	Mt. Lemmon Survey
(502952)	2015 EB_{62}	2006 02 01	G45	Spacewatch
(502953)	2015 EE_{62}	2006 03 03	G45	CSS
(502954)	2015 EW_{62}	2003 10 03	G45	Spacewatch
(502955)	2015 EY_{62}	2006 04 30	G45	Spacewatch
(502956)	2015 ES_{65}	2004 01 19	F51	Spacewatch
(502957)	2015 EB_{66}	2008 10 03	F51	Mt. Lemmon Survey
(502958)	2015 EL_{66}	2010 01 29	F51	WISE
(502959)	2015 ED_{68}	2006 02 27	F51	Spacewatch
(502960)	2015 EO_{70}	2004 12 13	F51	Spacewatch
(502961)	2015 EF_{71}	2011 01 14	F51	Spacewatch
(502962)	2015 EJ_{71}	2004 10 04	F51	Spacewatch
(502963)	2015 EL_{71}	2007 09 10	F51	Mt. Lemmon Survey
(502964)	2015 EP_{72}	2010 01 13	F51	Mt. Lemmon Survey
(502965)	2015 EC_{73}	2005 05 07	F51	Mt. Lemmon Survey
(502966)	2015 FV_{1}	2008 10 02	F51	Mt. Lemmon Survey
(502967)	2015 FJ_{6}	2008 08 10	F51	OAM
(502968)	2015 FH_{8}	2003 09 30	F51	Spacewatch
(502969)	2015 FK_{12}	2004 12 14	F51	Spacewatch
(502970)	2015 FP_{17}	2009 01 31	691	Mt. Lemmon Survey
(502971)	2015 FM_{21}	1996 04 22	F51	Spacewatch
(502972)	2015 FE_{39}	2009 02 28	F51	Spacewatch
(502973)	2015 FQ_{39}	2006 03 03	F51	Spacewatch
(502974)	2015 FA_{44}	2005 09 27	F51	Spacewatch
(502975)	2015 FZ_{44}	2006 10 17	F51	Spacewatch
(502976)	2015 FC_{45}	2006 09 27	F51	Mt. Lemmon Survey
(502977)	2015 FP_{47}	2010 01 14	F51	WISE
(502978)	2015 FA_{51}	2008 09 06	F51	Spacewatch
(502979)	2015 FO_{56}	2008 09 26	F51	Mt. Lemmon Survey
(502980)	2015 FJ_{59}	2007 11 07	F51	Mt. Lemmon Survey
(502981)	2015 FA_{60}	2013 10 31	F51	Spacewatch
(502982)	2015 FQ_{66}	2007 11 13	F51	Spacewatch
(502983)	2015 FD_{72}	2009 02 04	F51	Mt. Lemmon Survey
(502984)	2015 FC_{73}	2006 02 22	F51	CSS
(502985)	2015 FG_{74}	2012 10 08	F51	Mt. Lemmon Survey
(502986)	2015 FQ_{74}	2008 11 06	F51	Mt. Lemmon Survey
(502987)	2015 FG_{75}	2010 03 13	F51	CSS
(502988)	2015 FP_{75}	2006 10 19	F51	Mt. Lemmon Survey
(502989)	2015 FE_{76}	2009 03 27	F51	Mt. Lemmon Survey
(502990)	2015 FG_{76}	2012 09 15	F51	Mt. Lemmon Survey
(502991)	2015 FH_{76}	2010 05 02	F51	WISE
(502992)	2015 FH_{82}	2013 12 03	F51	Pan-STARRS 1
(502993)	2015 FA_{88}	2006 08 28	F51	Spacewatch
(502994)	2015 FM_{93}	2008 07 30	F51	Spacewatch
(502995)	2015 FD_{94}	2008 12 04	F51	Mt. Lemmon Survey
(502996)	2015 FG_{94}	2007 11 02	F51	Spacewatch
(502997)	2015 FF_{95}	2004 09 11	F51	LINEAR
(502998)	2015 FB_{96}	2010 04 10	F51	Spacewatch
(502999)	2015 FE_{96}	1996 10 04	F51	Spacewatch
(503000)	2015 FK_{96}	2009 02 18	F51	OAM
(503001)	2015 FX_{96}	2012 10 09	F51	Pan-STARRS 1
(503002)	2015 FS_{98}	2004 02 11	F51	Spacewatch
(503003)	2015 FW_{99}	2012 10 25	F51	Mt. Lemmon Survey
(503004)	2015 FV_{101}	2004 12 11	F51	Spacewatch
(503005)	2015 FK_{102}	2010 01 17	F51	Spacewatch
(503006)	2015 FT_{102}	2008 12 21	F51	Spacewatch
(503007)	2015 FX_{102}	2004 01 15	F51	Spacewatch
(503008)	2015 FD_{106}	2007 09 10	F51	Spacewatch
(503009)	2015 FN_{106}	2007 11 08	F51	Mt. Lemmon Survey
(503010)	2015 FW_{108}	2010 05 02	F51	WISE
(503011)	2015 FG_{109}	2007 09 15	F51	LONEOS
(503012)	2015 FK_{110}	2007 03 16	F51	Spacewatch

(503013)	2015 FL_{110}	2012 10 23	F51	Pan-STARRS 1
(503014)	2015 FW_{110}	2007 08 10	F51	Spacewatch
(503015)	2015 FW_{111}	2005 10 11	F51	Spacewatch
(503016)	2015 FP_{112}	2001 10 11	F51	Spacewatch
(503017)	2015 FB_{113}	2010 02 09	F51	Spacewatch
(503018)	2015 FL_{115}	1995 09 24	F51	Spacewatch
(503019)	2015 FT_{115}	2009 02 03	703	Mt. Lemmon Survey
(503020)	2015 FW_{116}	2010 03 13	G96	Spacewatch
(503021)	2015 FE_{121}	2004 12 12	D29	Spacewatch
(503022)	2015 FJ_{121}	2010 03 12	D29	Spacewatch
(503023)	2015 FM_{121}	2013 11 02	D29	CSS
(503024)	2015 FB_{123}	2006 03 24	D29	Mt. Lemmon Survey
(503025)	2015 FY_{135}	2013 12 29	703	Pan-STARRS 1
(503026)	2015 FL_{136}	2009 02 05	F51	Spacewatch
(503027)	2015 FG_{139}	2009 03 01	F51	Mt. Lemmon Survey
(503028)	2015 FF_{140}	2000 04 06	F51	Spacewatch
(503029)	2015 FT_{140}	2006 09 19	F51	Spacewatch
(503030)	2015 FM_{141}	2002 10 30	F51	Spacewatch
(503031)	2015 FV_{141}	2009 01 20	F51	Spacewatch
(503032)	2015 FK_{143}	2010 03 13	F51	Mt. Lemmon Survey
(503033)	2015 FE_{144}	2005 03 03	F51	CSS
(503034)	2015 FN_{144}	2007 11 04	F51	Spacewatch
(503035)	2015 FX_{145}	2010 02 16	F51	WISE
(503036)	2015 FU_{146}	2011 03 13	F51	Mt. Lemmon Survey
(503037)	2015 FX_{146}	2006 02 21	F51	CSS
(503038)	2015 FG_{149}	2010 03 20	F51	WISE
(503039)	2015 FR_{149}	2006 09 28	F51	Spacewatch
(503040)	2015 FR_{150}	2008 02 11	F51	Mt. Lemmon Survey
(503041)	2015 FW_{150}	2005 04 01	F51	Spacewatch
(503042)	2015 FJ_{151}	2006 09 16	F51	Spacewatch
(503043)	2015 FD_{152}	2009 02 26	F51	Spacewatch
(503044)	2015 FU_{152}	2003 12 21	F51	Spacewatch
(503045)	2015 FL_{153}	2011 04 04	F51	Spacewatch
(503046)	2015 FL_{158}	2009 03 03	F51	CSS
(503047)	2015 FV_{158}	2009 10 27	F51	Mt. Lemmon Survey
(503048)	2015 FY_{158}	2011 08 30	F51	Pan-STARRS 1
(503049)	2015 FB_{159}	2008 10 28	F51	Spacewatch
(503050)	2015 FO_{161}	2002 01 07	F51	Spacewatch
(503051)	2015 FR_{162}	2007 12 18	F51	Mt. Lemmon Survey
(503052)	2015 FJ_{164}	2004 11 10	F51	Spacewatch
(503053)	2015 FS_{165}	2006 10 02	F51	Mt. Lemmon Survey
(503054)	2015 FH_{166}	1995 08 22	F51	Spacewatch
(503055)	2015 FB_{168}	2007 10 13	F51	Mt. Lemmon Survey
(503056)	2015 FM_{170}	2007 10 31	F51	Spacewatch
(503057)	2015 FE_{171}	2006 04 20	F51	Spacewatch
(503058)	2015 FC_{174}	2010 03 13	F51	WISE
(503059)	2015 FP_{174}	2010 01 12	F51	Mt. Lemmon Survey
(503060)	2015 FM_{177}	2012 08 24	G96	Spacewatch
(503061)	2015 FZ_{179}	2003 09 27	G96	Spacewatch
(503062)	2015 FZ_{195}	2004 02 12	F51	Spacewatch
(503063)	2015 FA_{196}	2006 08 21	F51	Spacewatch
(503064)	2015 FT_{205}	2009 12 25	F51	Spacewatch
(503065)	2015 FU_{208}	2007 10 30	F51	Mt. Lemmon Survey
(503066)	2015 FU_{211}	2003 12 19	F51	LINEAR
(503067)	2015 FV_{211}	2008 10 06	F51	Mt. Lemmon Survey
(503068)	2015 FW_{212}	2010 03 16	F51	CSS
(503069)	2015 FG_{214}	2007 11 17	F51	Mt. Lemmon Survey
(503070)	2015 FX_{222}	2007 10 20	F51	Spacewatch
(503071)	2015 FO_{224}	2008 09 23	F51	LINEAR
(503072)	2015 FR_{229}	2004 04 25	F51	Spacewatch
(503073)	2015 FK_{237}	2010 02 13	F51	Mt. Lemmon Survey
(503074)	2015 FN_{247}	2010 02 01	F51	WISE
(503075)	2015 FK_{251}	2008 10 08	F51	Spacewatch
(503076)	2015 FK_{253}	2010 03 13	F51	Mt. Lemmon Survey
(503077)	2015 FQ_{263}	2009 12 18	F51	Spacewatch
(503078)	2015 FY_{265}	2010 01 07	F51	Spacewatch
(503079)	2015 FO_{267}	2008 12 22	F51	Spacewatch
(503080)	2015 FF_{268}	2009 02 14	F51	Mt. Lemmon Survey
(503081)	2015 FM_{279}	2011 05 22	F51	Mt. Lemmon Survey
(503082)	2015 FE_{280}	2002 01 13	F51	LINEAR
(503083)	2015 FG_{284}	2004 11 11	F51	CSS
(503084)	2015 FM_{284}	2011 05 22	F51	Mt. Lemmon Survey
(503085)	2015 FE_{290}	2012 10 08	691	Mt. Lemmon Survey
(503086)	2015 FF_{290}	2010 02 15	G96	WISE
(503087)	2015 FT_{291}	2007 04 25	G96	Mt. Lemmon Survey
(503088)	2015 FN_{294}	2015 01 28	F51	Pan-STARRS 1
(503089)	2015 FP_{294}	2014 02 10	F51	Pan-STARRS 1
(503090)	2015 FZ_{295}	2012 10 22	F51	Mt. Lemmon Survey
(503091)	2015 FR_{296}	2010 03 14	F51	WISE
(503092)	2015 FA_{298}	2004 03 27	F51	LINEAR
(503093)	2015 FV_{298}	2008 12 22	F51	Mt. Lemmon Survey
(503094)	2015 FT_{300}	2007 05 12	F51	Spacewatch
(503095)	2015 FN_{301}	2009 02 02	F51	Mt. Lemmon Survey
(503096)	2015 FF_{304}	2008 11 18	F51	OAM
(503097)	2015 FJ_{306}	2007 12 16	F51	Mt. Lemmon Survey
(503098)	2015 FJ_{309}	2006 02 02	F51	Mt. Lemmon Survey
(503099)	2015 FE_{312}	2006 01 22	F51	CSS
(503100)	2015 FG_{314}	2009 01 29	F51	Mt. Lemmon Survey
(503101)	2015 FE_{315}	2009 12 18	F51	Spacewatch
(503102)	2015 FK_{315}	2007 10 08	F51	Spacewatch
(503103)	2015 FT_{315}	2006 02 05	F51	Mt. Lemmon Survey
(503104)	2015 FV_{315}	2012 10 08	F51	Pan-STARRS 1
(503105)	2015 FL_{316}	2007 09 10	F51	Spacewatch
(503106)	2015 FS_{316}	2006 11 16	F51	Spacewatch
(503107)	2015 FQ_{317}	2006 02 02	F51	Spacewatch
(503108)	2015 FN_{318}	2011 07 01	F51	Spacewatch
(503109)	2015 FA_{319}	2009 01 17	F51	Spacewatch
(503110)	2015 FJ_{319}	2012 10 08	F51	Pan-STARRS 1
(503111)	2015 FB_{320}	2004 03 14	F51	Spacewatch
(503112)	2015 FU_{320}	2011 03 12	F51	Mt. Lemmon Survey
(503113)	2015 FV_{323}	2006 09 20	F51	CSS
(503114)	2015 FS_{325}	2010 05 07	F51	Mt. Lemmon Survey
(503115)	2015 FJ_{327}	2005 04 17	F51	Spacewatch
(503116)	2015 FF_{329}	2010 04 10	F51	Spacewatch

(503117)	2015 FH_{329}	2007 11 18	F51	Mt. Lemmon Survey
(503118)	2015 FG_{330}	2009 11 17	F51	Spacewatch
(503119)	2015 FL_{331}	2006 09 18	691	Spacewatch
(503120)	2015 FX_{331}	2010 01 16	691	WISE
(503121)	2015 FE_{334}	2011 08 24	F51	Pan-STARRS 1
(503122)	2015 FY_{341}	2009 01 17	G45	Spacewatch
(503123)	2015 FA_{342}	2003 09 28	G45	Spacewatch
(503124)	2015 FB_{342}	2003 09 30	G45	Spacewatch
(503125)	2015 FE_{343}	2013 11 10	G45	Spacewatch
(503126)	2015 FL_{343}	2013 09 28	G45	Pan-STARRS 1
(503127)	2015 FS_{363}	2006 03 02	F51	Spacewatch
(503128)	2015 FS_{366}	2008 12 31	F51	CSS
(503129)	2015 FP_{371}	2008 07 28	F51	Mt. Lemmon Survey
(503130)	2015 FL_{377}	2008 12 04	F51	Spacewatch
(503131)	2015 FF_{380}	2007 09 18	F51	CSS
(503132)	2015 FO_{383}	2009 01 16	F51	Spacewatch
(503133)	2015 FB_{384}	2009 01 08	F51	Spacewatch
(503134)	2015 FE_{390}	2007 11 09	F51	Mt. Lemmon Survey
(503135)	2015 GK_{3}	2006 08 30	G96	LONEOS
(503136)	2015 GJ_{7}	2010 02 23	F51	WISE
(503137)	2015 GE_{14}	2012 10 11	587	Mt. Lemmon Survey
(503138)	2015 GB_{15}	2005 03 08	G96	Mt. Lemmon Survey
(503139)	2015 GT_{15}	2006 08 29	G96	CSS
(503140)	2015 GX_{15}	2006 09 25	G96	Mt. Lemmon Survey
(503141)	2015 GL_{17}	2009 03 03	G96	CSS
(503142)	2015 GR_{17}	2008 12 31	G96	Spacewatch
(503143)	2015 GZ_{19}	2012 09 17	G96	Spacewatch
(503144)	2015 GD_{21}	2005 03 08	G96	Mt. Lemmon Survey
(503145)	2015 GE_{21}	2009 02 28	G96	Spacewatch
(503146)	2015 GT_{21}	2005 03 04	G96	Mt. Lemmon Survey
(503147)	2015 GG_{23}	1997 12 21	F51	Spacewatch
(503148)	2015 GV_{24}	2007 11 13	F51	Mt. Lemmon Survey
(503149)	2015 GR_{25}	2007 11 04	F51	Spacewatch
(503150)	2015 GZ_{25}	2013 12 31	F51	Spacewatch
(503151)	2015 GJ_{26}	2010 04 10	F51	Mt. Lemmon Survey
(503152)	2015 GY_{28}	2006 09 16	F51	Spacewatch
(503153)	2015 GL_{29}	1995 09 20	F51	Spacewatch
(503154)	2015 GN_{30}	2007 09 11	F51	Mt. Lemmon Survey
(503155)	2015 GM_{31}	2004 03 15	F51	Spacewatch
(503156)	2015 GU_{32}	2009 03 01	F51	Spacewatch
(503157)	2015 GZ_{32}	2005 05 03	F51	Spacewatch
(503158)	2015 GA_{33}	2011 07 27	F51	Pan-STARRS 1
(503159)	2015 GE_{34}	2009 02 03	F51	Mt. Lemmon Survey
(503160)	2015 GQ_{36}	2010 06 11	D29	WISE
(503161)	2015 GS_{36}	2009 05 04	621	Mt. Lemmon Survey
(503162)	2015 GT_{36}	2012 10 17	621	Pan-STARRS 1
(503163)	2015 GK_{37}	2005 01 16	F51	Spacewatch
(503164)	2015 GM_{37}	2004 03 16	F51	Spacewatch
(503165)	2015 GC_{38}	2008 12 22	F51	Mt. Lemmon Survey
(503166)	2015 GD_{38}	2003 12 19	F51	Spacewatch
(503167)	2015 GM_{38}	2009 01 25	F51	Spacewatch
(503168)	2015 GO_{38}	2004 12 15	F51	LINEAR
(503169)	2015 GS_{38}	2007 10 20	F51	Mt. Lemmon Survey
(503170)	2015 GB_{39}	2006 01 26	F51	Mt. Lemmon Survey
(503171)	2015 GC_{39}	2007 11 02	F51	Mt. Lemmon Survey
(503172)	2015 GE_{40}	2005 03 03	F51	Spacewatch
(503173)	2015 GQ_{40}	2006 10 15	F51	Spacewatch
(503174)	2015 GQ_{41}	2010 02 13	F51	LINEAR
(503175)	2015 GH_{43}	2009 03 01	F51	Spacewatch
(503176)	2015 GK_{43}	2008 10 08	F51	CSS
(503177)	2015 GL_{43}	2007 10 30	F51	Spacewatch
(503178)	2015 GM_{43}	2008 12 04	F51	Spacewatch
(503179)	2015 GA_{44}	2009 03 19	F51	Mt. Lemmon Survey
(503180)	2015 GD_{44}	2007 10 20	F51	Mt. Lemmon Survey
(503181)	2015 GH_{44}	2007 11 09	F51	Spacewatch
(503182)	2015 GQ_{44}	2012 10 17	F51	Pan-STARRS 1
(503183)	2015 GF_{45}	2006 05 24	F51	Spacewatch
(503184)	2015 GH_{45}	2009 01 18	F51	Mt. Lemmon Survey
(503185)	2015 GX_{46}	2012 10 07	F51	Pan-STARRS 1
(503186)	2015 GS_{48}	2008 01 12	F51	Spacewatch
(503187)	2015 HM	2007 11 03	G32	Spacewatch
(503188)	2015 HX_{2}	2008 09 26	F51	Mt. Lemmon Survey
(503189)	2015 HX_{3}	2008 11 30	F51	Spacewatch
(503190)	2015 HE_{4}	2006 09 16	F51	Spacewatch
(503191)	2015 HC_{5}	2006 08 29	F51	Spacewatch
(503192)	2015 HD_{5}	2007 11 09	F51	Spacewatch
(503193)	2015 HL_{5}	2001 03 02	F51	Spacewatch
(503194)	2015 HQ_{5}	2008 12 21	F51	Mt. Lemmon Survey
(503195)	2015 HL_{6}	2008 09 03	F51	Spacewatch
(503196)	2015 HA_{9}	2000 04 07	I41	LONEOS
(503197)	2015 HA_{11}	2013 09 01	703	PMO NEO Survey Program
(503198)	2015 HD_{12}	2007 10 10	691	Mt. Lemmon Survey
(503199)	2015 HJ_{14}	2010 04 10	F51	Mt. Lemmon Survey
(503200)	2015 HV_{14}	2014 02 20	691	Pan-STARRS 1
(503201)	2015 HF_{16}	2011 01 15	F51	CSS
(503202)	2015 HM_{18}	1995 06 26	F51	Spacewatch
(503203)	2015 HT_{20}	2006 09 18	F51	Spacewatch
(503204)	2015 HB_{21}	2013 10 26	F51	Spacewatch
(503205)	2015 HY_{23}	2007 11 04	F51	Spacewatch
(503206)	2015 HJ_{25}	2009 05 26	F51	Mt. Lemmon Survey
(503207)	2015 HY_{28}	2012 09 17	F51	Spacewatch
(503208)	2015 HH_{30}	2003 11 20	F51	Spacewatch
(503209)	2015 HS_{30}	2007 10 20	F51	Mt. Lemmon Survey
(503210)	2015 HB_{31}	2006 09 18	F51	Spacewatch
(503211)	2015 HN_{34}	2010 04 08	F51	Spacewatch
(503212)	2015 HM_{35}	2004 05 01	F51	Spacewatch
(503213)	2015 HN_{36}	2014 01 11	F51	Spacewatch
(503214)	2015 HX_{36}	2010 04 11	F51	WISE
(503215)	2015 HV_{37}	2009 03 01	F51	CSS
(503216)	2015 HB_{40}	2004 03 29	F51	LINEAR
(503217)	2015 HD_{41}	2002 02 04	F51	LONEOS
(503218)	2015 HA_{42}	2001 08 25	D29	LINEAR
(503219)	2015 HN_{42}	2007 11 02	D29	Spacewatch
(503220)	2015 HS_{42}	2015 01 28	D29	Pan-STARRS 1

(503221)	2015 HV_{47}	2010 06 11	F51	Mt. Lemmon Survey
(503222)	2015 HB_{51}	2006 10 16	F51	CSS
(503223)	2015 HL_{63}	1997 02 03	F51	Spacewatch
(503224)	2015 HL_{64}	2004 04 26	F51	LONEOS
(503225)	2015 HC_{74}	2006 08 21	F51	Spacewatch
(503226)	2015 HO_{84}	2009 01 17	F51	Mt. Lemmon Survey
(503227)	2015 HG_{95}	2006 03 04	F51	Spacewatch
(503228)	2015 HK_{99}	2004 10 23	F51	Spacewatch
(503229)	2015 HU_{101}	2015 04 01	F51	Pan-STARRS 1
(503230)	2015 HC_{103}	2000 11 18	F51	LONEOS
(503231)	2015 HP_{104}	2007 11 13	F51	Spacewatch
(503232)	2015 HE_{108}	2010 02 14	F51	Spacewatch
(503233)	2015 HD_{109}	2015 01 28	F51	Pan-STARRS 1
(503234)	2015 HE_{118}	2002 10 30	F51	Spacewatch
(503235)	2015 HL_{137}	2014 02 08	F51	Mt. Lemmon Survey
(503236)	2015 HQ_{138}	2011 09 04	F51	Pan-STARRS 1
(503237)	2015 HH_{145}	2003 01 31	F51	Spacewatch
(503238)	2015 HD_{149}	2012 09 19	F51	Mt. Lemmon Survey
(503239)	2015 HO_{152}	2006 10 04	F51	Mt. Lemmon Survey
(503240)	2015 HX_{171}	2005 10 29	G45	CSS
(503241)	2015 HK_{173}	2011 08 24	G45	Pan-STARRS 1
(503242)	2015 HL_{175}	2011 05 23	G45	Mt. Lemmon Survey
(503243)	2015 HN_{176}	2007 11 12	G45	Mt. Lemmon Survey
(503244)	2015 HR_{181}	2011 09 29	G45	Mt. Lemmon Survey
(503245)	2015 JM_{2}	1998 12 26	I41	ODAS
(503246)	2015 KV_{6}	2011 10 28	G96	Mt. Lemmon Survey
(503247)	2015 KP_{7}	2009 04 22	G96	Mt. Lemmon Survey
(503248)	2015 KN_{9}	2008 01 18	F51	Mt. Lemmon Survey
(503249)	2015 KU_{10}	2015 04 19	F51	Spacewatch
(503250)	2015 KO_{15}	2014 02 26	F51	Pan-STARRS 1
(503251)	2015 KX_{17}	2012 12 07	F51	Pan-STARRS 1
(503252)	2015 KJ_{18}	2014 02 24	691	Pan-STARRS 1
(503253)	2015 KB_{28}	2015 04 23	F51	Pan-STARRS 1
(503254)	2015 KF_{45}	2007 03 16	F51	Spacewatch
(503255)	2015 KM_{71}	2011 09 01	F51	Siding Spring Survey
(503256)	2015 KL_{76}	2015 02 27	F51	Pan-STARRS 1
(503257)	2015 KT_{78}	2008 03 12	F51	Spacewatch
(503258)	2015 KR_{81}	2008 09 04	F51	Spacewatch
(503259)	2015 KG_{84}	2012 12 09	F51	Pan-STARRS 1
(503260)	2015 KS_{105}	2011 09 04	F51	Pan-STARRS 1
(503261)	2015 KY_{116}	2007 12 18	F51	Mt. Lemmon Survey
(503262)	2015 KE_{127}	2014 02 10	F51	Pan-STARRS 1
(503263)	2015 LT_{2}	2012 11 07	F51	Mt. Lemmon Survey
(503264)	2015 LG_{4}	2008 10 08	F51	Mt. Lemmon Survey
(503265)	2015 LK_{35}	2010 06 10	G96	WISE
(503266)	2015 MS_{1}	2014 01 26	F51	Pan-STARRS 1
(503267)	2015 MG_{51}	2014 03 29	F51	Pan-STARRS 1
(503268)	2015 OA_{2}	2013 12 04	G45	Pan-STARRS 1
(503269)	2015 OB_{3}	2010 06 18	G45	WISE
(503270)	2015 OA_{20}	2005 10 28	F51	Mt. Lemmon Survey
(503271)	2015 PQ_{33}	2006 11 01	F51	Mt. Lemmon Survey
(503272)	2015 PE_{231}	2014 05 21	F51	Pan-STARRS 1
(503273)	2015 PN_{291}	2014 07 25	F51	Pan-STARRS 1
(503274)	2015 QE_{9}	2011 08 24	F51	Pan-STARRS 1
(503275)	2015 RS_{5}	2014 01 24	F51	Pan-STARRS 1
(503276)	2015 RE_{12}	2014 02 20	F51	Pan-STARRS 1
(503277)	2015 RT_{83}	2015 09 15	H15	ISON
(503278)	2015 SR_{1}	2010 10 12	G96	Mt. Lemmon Survey
(503279)	2015 TS_{144}	2009 06 01	G96	CSS
(503280)	2015 TD_{300}	2014 07 01	G45	Pan-STARRS 1
(503281)	2015 TC_{303}	2008 12 05	F51	Spacewatch
(503282)	2015 UN_{4}	2013 01 17	G96	Mt. Lemmon Survey
(503283)	2015 UU_{17}	2008 02 28	F51	Mt. Lemmon Survey
(503284)	2015 VF_{78}	2014 06 28	F51	Pan-STARRS 1
(503285)	2015 VW_{108}	2014 06 25	G45	Mt. Lemmon Survey
(503286)	2015 VM_{118}	2002 10 04	G45	LINEAR
(503287)	2015 VA_{126}	2000 03 10	G45	LINEAR
(503288)	2015 XT_{170}	2011 01 09	G96	Mt. Lemmon Survey
(503289)	2015 XU_{288}	2009 01 17	F51	Spacewatch
(503290)	2015 YF_{2}	1999 07 12	G96	LINEAR
(503291)	2015 YY_{7}	2011 01 04	G96	Mt. Lemmon Survey
(503292)	2016 AD_{3}	2012 10 05	926	Pan-STARRS 1
(503293)	2016 AA_{9}	2006 11 21	F51	CSS
(503294)	2016 AF_{24}	2009 01 03	F51	Mt. Lemmon Survey
(503295)	2016 AM_{30}	2008 04 15	G96	Spacewatch
(503296)	2016 AN_{36}	2004 07 11	F51	LINEAR
(503297)	2016 AY_{53}	2008 01 14	F51	Spacewatch
(503298)	2016 AW_{61}	2013 02 09	F51	Pan-STARRS 1
(503299)	2016 AP_{66}	2012 09 04	703	Pan-STARRS 1
(503300)	2016 AF_{75}	2016 01 04	F51	Pan-STARRS 1
(503301)	2016 AX_{78}	2002 05 06	F51	Spacewatch
(503302)	2016 AB_{99}	2009 02 22	F51	Spacewatch
(503303)	2016 AB_{109}	2013 07 13	F51	Pan-STARRS 1
(503304)	2016 AV_{110}	1998 04 19	F51	Spacewatch
(503305)	2016 AO_{111}	2011 02 08	F51	CSS
(503306)	2016 AB_{113}	2014 11 23	F51	Pan-STARRS 1
(503307)	2016 AH_{113}	2014 09 04	F51	Pan-STARRS 1
(503308)	2016 AL_{115}	2009 03 19	F51	CSS
(503309)	2016 AN_{122}	2006 06 26	F51	Siding Spring Survey
(503310)	2016 AF_{124}	2012 02 01	F51	Mt. Lemmon Survey
(503311)	2016 AU_{124}	2005 01 16	F51	Spacewatch
(503312)	2016 AK_{125}	2005 03 03	F51	CSS
(503313)	2016 AC_{126}	2004 12 16	F51	CSS
(503314)	2016 AO_{127}	2010 01 15	F51	Mt. Lemmon Survey
(503315)	2016 AG_{128}	2011 03 30	F51	Mt. Lemmon Survey
(503316)	2016 AQ_{129}	2004 01 28	F51	Spacewatch
(503317)	2016 AA_{131}	2009 08 15	F51	CSS
(503318)	2016 AC_{131}	2012 11 04	F51	Pan-STARRS 1
(503319)	2016 AR_{142}	2013 07 13	F51	Mt. Lemmon Survey
(503320)	2016 AZ_{160}	2014 10 16	F51	Mt. Lemmon Survey
(503321)	2016 AK_{164}	2012 10 04	703	Pan-STARRS 1
(503322)	2016 AV_{178}	2016 01 11	F51	Pan-STARRS 1
(503323)	2016 AL_{181}	2011 04 02	F51	Mt. Lemmon Survey
(503324)	2016 AA_{192}	2004 12 18	G96	Mt. Lemmon Survey

(503325)	2016 BB	2007 11 12	F51	CSS
(503326)	2016 BZ_{5}	2006 04 26	F51	Siding Spring Survey
(503327)	2016 BB_{6}	2014 11 18	F51	Spacewatch
(503328)	2016 BN_{8}	2007 01 17	F51	Spacewatch
(503329)	2016 BO_{8}	2012 01 02	F51	Mt. Lemmon Survey
(503330)	2016 BT_{9}	2012 04 27	F51	Pan-STARRS 1
(503331)	2016 BT_{10}	2013 07 15	F51	Pan-STARRS 1
(503332)	2016 BN_{12}	2010 12 09	G96	Mt. Lemmon Survey
(503333)	2016 BG_{19}	2005 12 10	G96	Spacewatch
(503334)	2016 BD_{20}	2005 12 25	G96	Spacewatch
(503335)	2016 BG_{20}	2005 12 28	G96	Spacewatch
(503336)	2016 BO_{25}	2011 01 30	G96	Pan-STARRS 1
(503337)	2016 BA_{26}	2007 11 08	G96	Spacewatch
(503338)	2016 BM_{30}	2011 10 19	G96	Spacewatch
(503339)	2016 BW_{36}	2009 03 16	F51	Spacewatch
(503340)	2016 BY_{36}	2005 04 12	F51	Spacewatch
(503341)	2016 BB_{39}	2012 10 17	703	Pan-STARRS 1
(503342)	2016 BL_{39}	2011 01 30	G96	Pan-STARRS 1
(503343)	2016 BG_{41}	2008 01 10	G96	Mt. Lemmon Survey
(503344)	2016 BM_{44}	2007 11 18	691	Mt. Lemmon Survey
(503345)	2016 BJ_{48}	2012 06 01	F51	Mt. Lemmon Survey
(503346)	2016 BM_{48}	2009 04 02	F51	Mt. Lemmon Survey
(503347)	2016 BP_{56}	2008 12 30	G96	Mt. Lemmon Survey
(503348)	2016 BX_{58}	2007 03 18	G96	Spacewatch
(503349)	2016 BX_{59}	2012 01 26	G96	Mt. Lemmon Survey
(503350)	2016 BH_{62}	2006 01 26	F51	Spacewatch
(503351)	2016 BS_{62}	2013 03 13	F51	Mt. Lemmon Survey
(503352)	2016 BJ_{63}	2013 04 06	F51	Mt. Lemmon Survey
(503353)	2016 BR_{70}	2012 02 26	F51	Spacewatch
(503354)	2016 BZ_{72}	2006 03 24	F51	Spacewatch
(503355)	2016 BH_{75}	2013 04 15	F51	Pan-STARRS 1
(503356)	2016 BS_{79}	2007 10 11	F51	Mt. Lemmon Survey
(503357)	2016 BW_{79}	2014 08 25	F51	Pan-STARRS 1
(503358)	2016 CT	2013 03 16	F51	Mt. Lemmon Survey
(503359)	2016 CO_{3}	2011 10 25	F51	Pan-STARRS 1
(503360)	2016 CB_{5}	2011 11 17	F51	Mt. Lemmon Survey
(503361)	2016 CG_{7}	2005 04 02	F51	Mt. Lemmon Survey
(503362)	2016 CT_{7}	2010 11 12	F51	Spacewatch
(503363)	2016 CW_{7}	2005 03 11	F51	Mt. Lemmon Survey
(503364)	2016 CE_{8}	2004 12 20	F51	Mt. Lemmon Survey
(503365)	2016 CH_{9}	2014 07 27	F51	Pan-STARRS 1
(503366)	2016 CK_{13}	2006 05 26	F51	Mt. Lemmon Survey
(503367)	2016 CR_{13}	2008 02 12	F51	Mt. Lemmon Survey
(503368)	2016 CW_{14}	2013 06 12	F51	Pan-STARRS 1
(503369)	2016 CQ_{23}	2002 02 10	D29	LINEAR
(503370)	2016 CL_{24}	2013 04 02	G96	CSS
(503371)	2016 CD_{28}	2010 01 07	F51	Spacewatch
(503372)	2016 CQ_{30}	2011 01 27	F51	Spacewatch
(503373)	2016 CL_{31}	2012 12 22	F51	Pan-STARRS 1
(503374)	2016 CS_{32}	2007 11 05	F51	Spacewatch
(503375)	2016 CX_{32}	2007 04 15	F51	CSS
(503376)	2016 CR_{35}	2009 01 18	F51	Mt. Lemmon Survey
(503377)	2016 CG_{49}	2006 02 20	F51	Spacewatch
(503378)	2016 CO_{61}	2008 03 04	F51	Mt. Lemmon Survey
(503379)	2016 CK_{70}	2003 11 18	D29	Spacewatch
(503380)	2016 CJ_{72}	2014 11 26	F51	Pan-STARRS 1
(503381)	2016 CP_{72}	2002 04 09	F51	LINEAR
(503382)	2016 CC_{79}	2013 05 15	F51	Pan-STARRS 1
(503383)	2016 CF_{94}	2005 11 26	F51	Spacewatch
(503384)	2016 CO_{102}	2007 09 09	F51	Spacewatch
(503385)	2016 CX_{107}	2014 10 14	F51	Mt. Lemmon Survey
(503386)	2016 CZ_{114}	2012 02 24	F51	Pan-STARRS 1
(503387)	2016 CP_{118}	2007 10 18	F51	Mt. Lemmon Survey
(503388)	2016 CY_{120}	2008 03 11	F51	Spacewatch
(503389)	2016 CQ_{143}	2006 01 08	G96	Mt. Lemmon Survey
(503390)	2016 CN_{148}	2013 04 08	G96	Mt. Lemmon Survey
(503391)	2016 CO_{160}	2006 02 28	G96	Mt. Lemmon Survey
(503392)	2016 CC_{163}	2010 04 09	F51	Spacewatch
(503393)	2016 CV_{188}	2012 01 27	F51	Mt. Lemmon Survey
(503394)	2016 CP_{189}	2008 10 10	G96	Spacewatch
(503395)	2016 CY_{196}	2008 05 05	G96	CSS
(503396)	2016 CK_{202}	2006 02 20	F51	Spacewatch
(503397)	2016 CX_{202}	2006 08 21	F51	Spacewatch
(503398)	2016 CL_{206}	2012 01 03	F51	Spacewatch
(503399)	2016 CF_{207}	2005 01 19	F51	Spacewatch
(503400)	2016 CX_{207}	2012 02 26	F51	Spacewatch
(503401)	2016 CC_{215}	2009 02 26	F51	Spacewatch
(503402)	2016 CG_{227}	2004 02 13	F51	Spacewatch
(503403)	2016 CG_{242}	2010 04 08	F51	WISE
(503404)	2016 CW_{245}	2006 09 15	F51	Spacewatch
(503405)	2016 CU_{247}	2009 09 19	F51	CSS
(503406)	2016 CJ_{250}	2005 04 10	G96	Mt. Lemmon Survey
(503407)	2016 CC_{251}	2006 12 21	G96	Spacewatch
(503408)	2016 CV_{258}	2007 01 28	F51	Spacewatch
(503409)	2016 CM_{259}	2005 03 04	F51	CSS
(503410)	2016 CH_{261}	2013 10 03	F51	Spacewatch
(503411)	2016 CR_{261}	2003 05 05	F51	Spacewatch
(503412)	2016 DD	2011 02 25	703	Spacewatch
(503413)	2016 DE	2014 07 01	F51	Pan-STARRS 1
(503414)	2016 DY_{1}	2008 01 20	F51	Mt. Lemmon Survey
(503415)	2016 DC_{2}	2004 12 10	F51	LINEAR
(503416)	2016 DS_{17}	2002 01 12	691	CINEOS
(503417)	2016 DA_{21}	2005 03 11	691	Spacewatch
(503418)	2016 DD_{24}	2014 12 12	G96	Pan-STARRS 1
(503419)	2016 DZ_{24}	2008 01 15	G96	Spacewatch
(503420)	2016 DE_{26}	2011 10 24	F51	Mt. Lemmon Survey
(503421)	2016 DL_{27}	2009 03 28	G96	Spacewatch
(503422)	2016 DP_{30}	2011 01 30	F51	Pan-STARRS 1
(503423)	2016 EC_{2}	2008 02 08	F51	Mt. Lemmon Survey
(503424)	2016 EX_{4}	2008 02 08	F51	Mt. Lemmon Survey
(503425)	2016 EC_{8}	2011 10 26	J43	Pan-STARRS 1
(503426)	2016 EY_{17}	2013 05 20	F51	Pan-STARRS 1
(503427)	2016 EX_{24}	2015 01 18	F51	Mt. Lemmon Survey
(503428)	2016 EY_{24}	2015 01 13	F51	Pan-STARRS 1

(503429)	2016 ES_{25}	2011 03 25	F51	Pan-STARRS 1
(503430)	2016 ED_{32}	1996 12 07	F51	Spacewatch
(503431)	2016 EP_{36}	2010 01 12	F51	Spacewatch
(503432)	2016 EK_{54}	2010 09 01	F51	Mt. Lemmon Survey
(503433)	2016 EF_{55}	2004 09 07	F51	LINEAR
(503434)	2016 ES_{55}	2011 02 07	F51	CSS
(503435)	2016 EK_{61}	2012 08 13	F51	Pan-STARRS 1
(503436)	2016 EX_{74}	2005 12 27	F51	Spacewatch
(503437)	2016 EG_{75}	2009 02 02	F51	Spacewatch
(503438)	2016 ES_{75}	2012 02 27	F51	Pan-STARRS 1
(503439)	2016 EA_{77}	2007 10 14	F51	Spacewatch
(503440)	2016 EK_{80}	2002 02 10	F51	LINEAR
(503441)	2016 ET_{87}	2006 06 21	F51	Spacewatch
(503442)	2016 EL_{88}	2013 10 01	691	Mt. Lemmon Survey
(503443)	2016 EZ_{88}	2011 09 28	F51	Mt. Lemmon Survey
(503444)	2016 EO_{95}	2013 04 13	F51	Pan-STARRS 1
(503445)	2016 EM_{110}	2011 04 05	F51	Mt. Lemmon Survey
(503446)	2016 EJ_{111}	1999 09 05	J04	Spacewatch
(503447)	2016 EA_{112}	2012 01 27	G96	Mt. Lemmon Survey
(503448)	2016 EB_{112}	2012 02 13	G96	Spacewatch
(503449)	2016 EQ_{113}	2005 02 09	G96	Spacewatch
(503450)	2016 EV_{115}	2013 08 14	G96	Pan-STARRS 1
(503451)	2016 EY_{115}	2013 04 17	G96	Pan-STARRS 1
(503452)	2016 EC_{116}	2008 03 31	G96	Spacewatch
(503453)	2016 EW_{118}	2009 04 28	G96	Mt. Lemmon Survey
(503454)	2016 EQ_{119}	2008 03 30	G96	Spacewatch
(503455)	2016 EV_{119}	2005 03 11	G96	Spacewatch
(503456)	2016 EX_{121}	2006 05 07	G96	Mt. Lemmon Survey
(503457)	2016 EF_{122}	2008 01 11	F51	Spacewatch
(503458)	2016 EN_{124}	2012 03 23	F51	Spacewatch
(503459)	2016 EC_{126}	2009 03 21	F51	Mt. Lemmon Survey
(503460)	2016 ET_{127}	2003 05 10	F51	Spacewatch
(503461)	2016 EC_{133}	2007 10 14	F51	Mt. Lemmon Survey
(503462)	2016 EH_{139}	2012 04 20	F51	Mt. Lemmon Survey
(503463)	2016 EU_{139}	2012 01 19	G96	Pan-STARRS 1
(503464)	2016 EK_{141}	2013 07 13	F51	Pan-STARRS 1
(503465)	2016 EC_{144}	2007 12 04	F51	Spacewatch
(503466)	2016 ET_{144}	2001 02 23	F51	Spacewatch
(503467)	2016 ED_{145}	2008 02 10	F51	Spacewatch
(503468)	2016 EG_{145}	2009 09 22	F51	Mt. Lemmon Survey
(503469)	2016 EW_{145}	2008 04 28	F51	Spacewatch
(503470)	2016 EK_{146}	2008 03 31	F51	Mt. Lemmon Survey
(503471)	2016 ES_{147}	2014 10 23	F51	Spacewatch
(503472)	2016 EY_{147}	2007 03 14	F51	Mt. Lemmon Survey
(503473)	2016 EO_{148}	2011 01 27	F51	Mt. Lemmon Survey
(503474)	2016 EY_{152}	2008 01 13	691	Spacewatch
(503475)	2016 EP_{157}	2014 06 02	F51	Pan-STARRS 1
(503476)	2016 ET_{158}	2014 10 05	J43	Pan-STARRS 1
(503477)	2016 EJ_{159}	2012 03 27	F51	Mt. Lemmon Survey
(503478)	2016 EF_{162}	2008 09 21	G96	Mt. Lemmon Survey
(503479)	2016 ET_{163}	2013 05 16	F51	Pan-STARRS 1
(503480)	2016 EX_{164}	2012 01 02	F51	Mt. Lemmon Survey
(503481)	2016 EU_{167}	2012 02 04	F51	Pan-STARRS 1
(503482)	2016 EO_{172}	2013 09 14	F51	Pan-STARRS 1
(503483)	2016 EJ_{173}	2010 02 17	J43	Mt. Lemmon Survey
(503484)	2016 EQ_{175}	2012 02 23	703	Mt. Lemmon Survey
(503485)	2016 EU_{175}	2014 09 20	G96	Pan-STARRS 1
(503486)	2016 EN_{178}	2012 05 14	F51	Pan-STARRS 1
(503487)	2016 EA_{181}	2012 01 06	F51	Pan-STARRS 1
(503488)	2016 EZ_{181}	2014 09 20	F51	Mt. Lemmon Survey
(503489)	2016 EM_{186}	1999 09 04	G96	Spacewatch
(503490)	2016 ES_{187}	2012 02 28	F51	Pan-STARRS 1
(503491)	2016 EH_{188}	2014 10 28	F51	Pan-STARRS 1
(503492)	2016 EM_{188}	2012 01 26	F51	Mt. Lemmon Survey
(503493)	2016 EP_{191}	2009 01 18	F51	Mt. Lemmon Survey
(503494)	2016 EY_{191}	2011 03 04	F51	Spacewatch
(503495)	2016 EC_{192}	2014 10 31	F51	Spacewatch
(503496)	2016 EK_{192}	2008 01 20	F51	Mt. Lemmon Survey
(503497)	2016 EC_{196}	2014 08 25	J43	Pan-STARRS 1
(503498)	2016 EO_{196}	2009 03 03	G45	CSS
(503499)	2016 EX_{198}	2013 07 13	F51	Pan-STARRS 1
(503500)	2016 EJ_{199}	2014 09 29	F51	Pan-STARRS 1
(503501)	2016 EX_{200}	2012 03 24	F51	Spacewatch
(503502)	2016 EG_{201}	2010 07 05	G96	Mt. Lemmon Survey
(503503)	2016 EH_{201}	2012 01 26	G96	Mt. Lemmon Survey
(503504)	2016 ER_{202}	2014 06 29	I41	Pan-STARRS 1
(503505)	2016 ES_{202}	2005 01 17	I41	Spacewatch
(503506)	2016 FP	2014 09 18	G96	Pan-STARRS 1
(503507)	2016 FK_{1}	2010 10 28	G96	Mt. Lemmon Survey
(503508)	2016 FO_{1}	2011 02 26	G96	Spacewatch
(503509)	2016 FQ_{3}	2006 09 27	F51	CSS
(503510)	2016 FE_{4}	2007 03 16	G45	Mt. Lemmon Survey
(503511)	2016 FL_{4}	2007 03 11	I41	Spacewatch
(503512)	2016 FD_{5}	2005 03 04	G96	Mt. Lemmon Survey
(503513)	2016 FJ_{5}	2003 10 02	G96	Spacewatch
(503514)	2016 FY_{6}	2009 01 30	703	CSS
(503515)	2016 FN_{7}	2004 11 11	J43	Spacewatch
(503516)	2016 FW_{8}	2012 01 30	G96	Mt. Lemmon Survey
(503517)	2016 FE_{9}	2012 01 27	G96	Mt. Lemmon Survey
(503518)	2016 FK_{9}	2008 01 11	G96	Mt. Lemmon Survey
(503519)	2016 FO_{9}	2011 03 09	G96	Mt. Lemmon Survey
(503520)	2016 FZ_{9}	2007 09 10	F51	Mt. Lemmon Survey
(503521)	2016 FB_{11}	2010 01 06	F51	Spacewatch
(503522)	2016 FT_{11}	2005 01 15	703	Spacewatch
(503523)	2016 FN_{12}	2003 09 16	F51	LONEOS
(503524)	2016 FW_{15}	2006 05 24	G96	Spacewatch
(503525)	2016 FV_{16}	2011 05 01	F51	Pan-STARRS 1
(503526)	2016 FL_{17}	2009 09 17	950	Spacewatch
(503527)	2016 FM_{17}	2010 02 10	950	Spacewatch
(503528)	2016 FO_{17}	2008 12 21	950	Mt. Lemmon Survey
(503529)	2016 FG_{20}	2004 08 08	F51	LINEAR
(503530)	2016 FN_{20}	2007 03 12	F51	Mt. Lemmon Survey
(503531)	2016 FF_{21}	2007 04 20	F51	Spacewatch
(503532)	2016 FJ_{21}	2011 01 13	F51	Mt. Lemmon Survey

(503533)	2016 FL_{21}	2011 04 27	F51	Spacewatch
(503534)	2016 FN_{21}	2008 01 11	F51	Spacewatch
(503535)	2016 FL_{24}	2011 12 27	G96	Mt. Lemmon Survey
(503536)	2016 FN_{24}	2009 04 24	G96	Mt. Lemmon Survey
(503537)	2016 FL_{25}	2005 04 11	G96	Mt. Lemmon Survey
(503538)	2016 FP_{25}	2010 10 28	G96	CSS
(503539)	2016 FD_{27}	2007 03 26	G96	Mt. Lemmon Survey
(503540)	2016 FK_{27}	2004 09 10	G96	Spacewatch
(503541)	2016 FF_{29}	2009 04 18	G96	Mt. Lemmon Survey
(503542)	2016 FN_{30}	2006 01 23	G96	Mt. Lemmon Survey
(503543)	2016 FD_{31}	2011 01 27	G96	Mt. Lemmon Survey
(503544)	2016 FL_{31}	2008 04 15	G96	Mt. Lemmon Survey
(503545)	2016 FQ_{34}	2004 10 08	F51	Spacewatch
(503546)	2016 FC_{35}	2004 10 06	F51	Spacewatch
(503547)	2016 FS_{36}	2008 09 22	G96	Spacewatch
(503548)	2016 FW_{36}	1998 10 18	G96	Spacewatch
(503549)	2016 FL_{41}	2012 06 10	G45	Pan-STARRS 1
(503550)	2016 FM_{41}	2014 12 01	G45	Pan-STARRS 1
(503551)	2016 FN_{42}	2011 11 15	G45	Spacewatch
(503552)	2016 FB_{43}	2007 02 26	G96	Mt. Lemmon Survey
(503553)	2016 FF_{43}	2013 04 13	G96	Pan-STARRS 1
(503554)	2016 FP_{46}	2010 09 10	F51	Spacewatch
(503555)	2016 FR_{47}	2009 11 17	G96	Mt. Lemmon Survey
(503556)	2016 FE_{48}	2009 04 18	G96	Mt. Lemmon Survey
(503557)	2016 FM_{48}	2005 02 09	F51	Mt. Lemmon Survey
(503558)	2016 FO_{48}	2009 03 02	G96	Spacewatch
(503559)	2016 FT_{49}	2006 09 18	G96	CSS
(503560)	2016 FV_{51}	2005 12 28	F51	Spacewatch
(503561)	2016 FT_{52}	2006 11 13	F51	Spacewatch
(503562)	2016 FP_{54}	2008 08 12	G45	OAM
(503563)	2016 FJ_{56}	2012 04 29	J43	Spacewatch
(503564)	2016 FH_{57}	2011 11 26	F51	Spacewatch
(503565)	2016 FT_{57}	2005 10 13	F51	Spacewatch
(503566)	2016 GO_{5}	2008 10 02	G96	Mt. Lemmon Survey
(503567)	2016 GZ_{6}	2008 06 30	G96	Spacewatch
(503568)	2016 GL_{9}	2008 10 08	G96	Spacewatch
(503569)	2016 GU_{9}	2013 07 14	G96	Pan-STARRS 1
(503570)	2016 GK_{11}	2009 01 31	691	Spacewatch
(503571)	2016 GX_{11}	2003 03 23	G96	Spacewatch
(503572)	2016 GC_{14}	2010 10 12	G96	Mt. Lemmon Survey
(503573)	2016 GD_{20}	2005 08 30	F51	Spacewatch
(503574)	2016 GN_{29}	2005 09 29	F51	Mt. Lemmon Survey
(503575)	2016 GL_{33}	2007 02 23	F51	Spacewatch
(503576)	2016 GP_{34}	2006 09 17	F51	Spacewatch
(503577)	2016 GN_{39}	2007 11 02	F51	Mt. Lemmon Survey
(503578)	2016 GS_{48}	2011 04 30	F51	Mt. Lemmon Survey
(503579)	2016 GY_{49}	2010 02 14	F51	Mt. Lemmon Survey
(503580)	2016 GV_{50}	2003 10 16	F51	Spacewatch
(503581)	2016 GF_{51}	2008 04 12	F51	Spacewatch
(503582)	2016 GY_{51}	2003 08 20	F51	CINEOS
(503583)	2016 GD_{53}	2008 04 29	F51	Mt. Lemmon Survey
(503584)	2016 GY_{54}	2004 04 13	F51	Spacewatch
(503585)	2016 GX_{55}	2007 09 10	F51	Spacewatch
(503586)	2016 GY_{56}	1995 09 17	F51	Spacewatch
(503587)	2016 GB_{57}	2005 12 22	F51	Spacewatch
(503588)	2016 GN_{59}	2014 11 22	F51	Mt. Lemmon Survey
(503589)	2016 GO_{64}	2009 03 16	G96	Spacewatch
(503590)	2016 GZ_{64}	2005 07 06	G96	Spacewatch
(503591)	2016 GF_{65}	2006 09 26	F51	Mt. Lemmon Survey
(503592)	2016 GT_{65}	2008 01 15	G96	Mt. Lemmon Survey
(503593)	2016 GF_{66}	2014 12 26	G96	Pan-STARRS 1
(503594)	2016 GC_{68}	2005 12 30	G96	Spacewatch
(503595)	2016 GH_{70}	2012 04 21	F51	Mt. Lemmon Survey
(503596)	2016 GS_{71}	2006 09 18	F51	Spacewatch
(503597)	2016 GC_{75}	2013 10 24	F51	Mt. Lemmon Survey
(503598)	2016 GA_{78}	2013 10 06	F51	Spacewatch
(503599)	2016 GQ_{78}	2009 10 27	F51	Spacewatch
(503600)	2016 GY_{87}	2007 01 10	F51	Spacewatch
(503601)	2016 GQ_{91}	2007 04 25	F51	Spacewatch
(503602)	2016 GA_{93}	2013 09 25	F51	CSS
(503603)	2016 GT_{93}	2012 01 18	F51	Mt. Lemmon Survey
(503604)	2016 GQ_{95}	2011 05 29	F51	Mt. Lemmon Survey
(503605)	2016 GP_{96}	2011 02 25	F51	Mt. Lemmon Survey
(503606)	2016 GX_{98}	2002 03 05	F51	Spacewatch
(503607)	2016 GG_{101}	2013 07 16	F51	Pan-STARRS 1
(503608)	2016 GZ_{107}	2007 04 22	F51	Mt. Lemmon Survey
(503609)	2016 GK_{108}	2010 02 15	F51	Spacewatch
(503610)	2016 GZ_{108}	2004 10 06	F51	Spacewatch
(503611)	2016 GN_{109}	2011 01 29	F51	Mt. Lemmon Survey
(503612)	2016 GF_{111}	2013 07 14	F51	Pan-STARRS 1
(503613)	2016 GH_{124}	2007 03 14	F51	Mt. Lemmon Survey
(503614)	2016 GT_{125}	2010 02 15	691	Mt. Lemmon Survey
(503615)	2016 GC_{126}	2004 10 10	691	Spacewatch
(503616)	2016 GM_{126}	2005 03 03	691	Spacewatch
(503617)	2016 GU_{127}	2009 02 27	G96	Spacewatch
(503618)	2016 GN_{128}	2005 12 30	G96	Spacewatch
(503619)	2016 GP_{128}	2007 10 07	G96	Spacewatch
(503620)	2016 GY_{129}	2005 03 04	691	Spacewatch
(503621)	2016 GL_{130}	2006 08 21	691	Spacewatch
(503622)	2016 GS_{130}	2010 12 13	G96	Mt. Lemmon Survey
(503623)	2016 GK_{132}	2012 01 02	G96	Mt. Lemmon Survey
(503624)	2016 GD_{133}	2005 03 03	F51	CSS
(503625)	2016 GO_{135}	1998 08 23	G96	Beijing Schmidt CCD Asteroid Program
(503626)	2016 GV_{135}	2010 10 10	J43	Mt. Lemmon Survey
(503627)	2016 GE_{138}	2007 03 16	F51	Mt. Lemmon Survey
(503628)	2016 GU_{140}	2016 03 04	F51	Pan-STARRS 1
(503629)	2016 GB_{145}	2007 01 17	G45	CSS
(503630)	2016 GX_{146}	2003 10 21	G96	Spacewatch
(503631)	2016 GC_{147}	2014 10 05	F51	Mt. Lemmon Survey
(503632)	2016 GA_{166}	2005 04 30	F51	Spacewatch
(503633)	2016 GL_{169}	2007 04 15	F51	Spacewatch
(503634)	2016 GR_{169}	2013 11 09	F51	Pan-STARRS 1
(503635)	2016 GW_{170}	2008 03 04	F51	Spacewatch
(503636)	2016 GX_{170}	2012 04 24	F51	Pan-STARRS 1

(503637)	2016 GV_{172}	2007 03 13	F51	Mt. Lemmon Survey
(503638)	2016 GF_{173}	2006 05 20	F51	Mt. Lemmon Survey
(503639)	2016 GP_{173}	2008 04 06	F51	Spacewatch
(503640)	2016 GU_{174}	2005 05 03	F51	Spacewatch
(503641)	2016 GC_{178}	2015 01 16	F51	Pan-STARRS 1
(503642)	2016 GW_{178}	2011 03 27	F51	Mt. Lemmon Survey
(503643)	2016 GQ_{182}	2010 02 14	F51	Spacewatch
(503644)	2016 GU_{188}	2011 06 04	F51	Mt. Lemmon Survey
(503645)	2016 GO_{189}	1995 06 22	F51	Spacewatch
(503646)	2016 GQ_{189}	2009 02 28	F51	Mt. Lemmon Survey
(503647)	2016 GE_{190}	2008 09 07	F51	Mt. Lemmon Survey
(503648)	2016 GG_{191}	2011 03 26	F51	Mt. Lemmon Survey
(503649)	2016 GX_{191}	2011 01 26	F51	Spacewatch
(503650)	2016 GM_{192}	2010 09 19	F51	Spacewatch
(503651)	2016 GJ_{200}	2010 11 03	G96	Mt. Lemmon Survey
(503652)	2016 GU_{204}	2012 05 16	F51	Spacewatch
(503653)	2016 GV_{205}	2005 03 01	J43	Spacewatch
(503654)	2016 GU_{207}	2008 03 07	D29	Mt. Lemmon Survey
(503655)	2016 GW_{207}	2010 01 16	G32	WISE
(503656)	2016 GC_{218}	2009 11 09	J43	Mt. Lemmon Survey
(503657)	2016 GO_{219}	2004 08 18	F51	Siding Spring Survey
(503658)	2016 GT_{222}	2007 05 18	F51	Spacewatch
(503659)	2016 GV_{222}	2011 07 25	F51	Pan-STARRS 1
(503660)	2016 GZ_{232}	2009 01 31	F51	Mt. Lemmon Survey
(503661)	2016 GR_{237}	2003 11 18	F51	Spacewatch
(503662)	2016 GH_{240}	2010 07 10	F51	WISE
(503663)	2016 GG_{242}	2006 01 31	691	Mt. Lemmon Survey
(503664)	2016 GB_{245}	2004 05 14	F51	Spacewatch
(503665)	2016 GE_{245}	2004 10 07	F51	Spacewatch
(503666)	2016 GP_{245}	2005 02 02	F51	Spacewatch
(503667)	2016 GH_{246}	2006 12 21	F51	Spacewatch
(503668)	2016 GW_{246}	2005 11 26	F51	Mt. Lemmon Survey
(503669)	2016 GW_{248}	2006 10 27	F51	Mt. Lemmon Survey
(503670)	2016 HY	2009 11 25	F51	Spacewatch
(503671)	2016 HA_{1}	2003 03 24	F51	Spacewatch
(503672)	2016 HZ_{1}	2013 10 02	F51	Pan-STARRS 1
(503673)	2016 HX_{2}	2011 01 04	F51	Mt. Lemmon Survey
(503674)	2016 HH_{3}	2011 05 30	F51	Pan-STARRS 1
(503675)	2016 HM_{5}	2012 05 19	G96	Mt. Lemmon Survey
(503676)	2016 HH_{6}	2010 04 09	G96	Mt. Lemmon Survey
(503677)	2016 HZ_{6}	2011 02 13	G96	Mt. Lemmon Survey
(503678)	2016 HR_{7}	2010 01 20	G96	WISE
(503679)	2016 HZ_{7}	2003 09 16	309	Spacewatch
(503680)	2016 HH_{8}	2009 09 28	691	Mt. Lemmon Survey
(503681)	2016 HL_{8}	2015 01 23	G96	Pan-STARRS 1
(503682)	2016 HY_{8}	2010 10 31	G96	Spacewatch
(503683)	2016 HS_{9}	2005 05 15	G96	Mt. Lemmon Survey
(503684)	2016 HZ_{9}	2014 09 06	G96	Mt. Lemmon Survey
(503685)	2016 HL_{10}	2007 10 12	G96	CSS
(503686)	2016 HS_{10}	2011 01 16	G96	Mt. Lemmon Survey
(503687)	2016 HK_{15}	2013 11 08	F51	Mt. Lemmon Survey
(503688)	2016 HW_{17}	2013 11 09	F51	Mt. Lemmon Survey
(503689)	2016 HR_{18}	2014 12 21	F51	Pan-STARRS 1
(503690)	2016 HH_{20}	2007 10 11	G96	Mt. Lemmon Survey
(503691)	2016 HD_{22}	2007 10 18	G96	Mt. Lemmon Survey
(503692)	2016 JM_{2}	2000 04 27	F51	Spacewatch
(503693)	2016 JG_{4}	2009 10 18	G96	Mt. Lemmon Survey
(503694)	2016 JJ_{4}	2003 04 25	F51	Spacewatch
(503695)	2016 JP_{6}	2010 05 27	F51	WISE
(503696)	2016 JB_{7}	2014 12 11	F51	Mt. Lemmon Survey
(503697)	2016 JF_{9}	2007 04 15	F51	Spacewatch
(503698)	2016 JL_{9}	2006 01 25	F51	Spacewatch
(503699)	2016 JU_{10}	2013 07 14	F51	Pan-STARRS 1
(503700)	2016 JV_{10}	2012 10 04	F51	Mt. Lemmon Survey
(503701)	2016 JF_{11}	2013 11 27	F51	Pan-STARRS 1
(503702)	2016 JP_{11}	2008 12 22	F51	Spacewatch
(503703)	2016 JO_{12}	2010 02 05	F51	WISE
(503704)	2016 JE_{14}	2013 10 02	G96	Pan-STARRS 1
(503705)	2016 JD_{15}	2006 08 27	G96	Spacewatch
(503706)	2016 JJ_{15}	2016 01 12	G96	Pan-STARRS 1
(503707)	2016 JL_{16}	2015 01 21	F51	Mt. Lemmon Survey
(503708)	2016 JU_{16}	2015 01 17	F51	Pan-STARRS 1
(503709)	2016 JZ_{19}	2006 11 21	F51	Mt. Lemmon Survey
(503710)	2016 JB_{20}	2001 02 16	F51	Spacewatch
(503711)	2016 JU_{20}	2007 10 11	F51	Mt. Lemmon Survey
(503712)	2016 JL_{21}	2005 04 12	F51	Spacewatch
(503713)	2016 JO_{21}	2005 04 12	F51	Spacewatch
(503714)	2016 JE_{23}	2005 09 27	G96	Spacewatch
(503715)	2016 JH_{23}	2010 09 19	G96	Spacewatch
(503716)	2016 JE_{25}	2006 01 23	F51	Spacewatch
(503717)	2016 JY_{25}	2013 07 13	G96	Pan-STARRS 1
(503718)	2016 JT_{27}	2010 04 05	G96	Spacewatch
(503719)	2016 JY_{27}	2010 02 14	G96	Spacewatch
(503720)	2016 JP_{28}	2011 01 30	691	Pan-STARRS 1
(503721)	2016 JN_{30}	2002 03 21	G45	CINEOS
(503722)	2016 JG_{33}	2004 02 16	691	Spacewatch
(503723)	2016 JL_{35}	2004 10 07	G45	Spacewatch
(503724)	2016 JP_{36}	2012 05 15	G45	Pan-STARRS 1
(503725)	2016 JB_{37}	2007 09 12	G32	CSS
(503726)	2016 JV_{38}	2007 03 25	J43	Mt. Lemmon Survey
(503727)	2016 KO_{2}	2004 08 25	G45	Spacewatch
(503728)	2016 LR_{3}	2010 01 13	F51	Spacewatch
(503729)	2016 LE_{5}	2015 01 16	G96	Pan-STARRS 1
(503730)	2016 LF_{5}	2010 01 27	G96	WISE
(503731)	2016 LM_{7}	2011 02 13	G96	Mt. Lemmon Survey
(503732)	2016 LV_{16}	2010 06 12	F51	WISE
(503733)	2016 LT_{20}	2010 02 09	F51	Spacewatch
(503734)	2016 LV_{21}	1999 04 14	F51	Spacewatch
(503735)	2016 LG_{24}	2010 04 09	F51	Mt. Lemmon Survey
(503736)	2016 LH_{24}	2006 04 20	F51	Spacewatch
(503737)	2016 LQ_{24}	2009 01 25	F51	Spacewatch
(503738)	2016 LJ_{25}	1999 11 01	F51	Spacewatch
(503739)	2016 LU_{25}	1995 09 20	F51	Spacewatch
(503740)	2016 LU_{27}	2005 05 02	F51	Spacewatch

(503741)	2016 LU_{28}	2003 11 26	F51	Spacewatch
(503742)	2016 LD_{31}	2007 11 05	F51	Mt. Lemmon Survey
(503743)	2016 LN_{31}	2004 09 10	F51	Spacewatch
(503744)	2016 LU_{34}	2013 11 27	F51	Pan-STARRS 1
(503745)	2016 LY_{36}	2006 09 14	F51	Spacewatch
(503746)	2016 LY_{41}	2007 12 31	F51	Mt. Lemmon Survey
(503747)	2016 LV_{43}	2009 01 25	G96	Spacewatch
(503748)	2016 LQ_{47}	2011 03 26	G96	Pan-STARRS 1
(503749)	2016 MM_{1}	2011 07 28	F51	Pan-STARRS 1
(503750)	2016 MJ_{2}	2008 10 06	F51	CSS
(503751)	2016 MW_{2}	2007 04 11	J43	CSS
(503752)	2016 MZ_{2}	2005 04 06	F51	Mt. Lemmon Survey
(503753)	2016 NP_{2}	2005 12 22	G45	Spacewatch
(503754)	2016 NY_{2}	2006 02 05	G96	Mt. Lemmon Survey
(503755)	2016 ND_{3}	2001 10 17	691	Spacewatch
(503756)	2016 NN_{4}	2009 01 02	G96	Mt. Lemmon Survey
(503757)	2016 NQ_{4}	2014 02 20	G96	Pan-STARRS 1
(503758)	2016 NP_{11}	2005 05 13	G96	Spacewatch
(503759)	2016 NB_{20}	2011 04 27	G96	Spacewatch
(503760)	2016 NT_{23}	2005 05 14	F51	Spacewatch
(503761)	2016 NT_{53}	2008 02 10	F51	Mt. Lemmon Survey
(503762)	2016 OS_{4}	2013 12 28	F51	Spacewatch
(503763)	2016 PS_{9}	2007 12 30	F51	Spacewatch
(503764)	2016 PZ_{12}	2000 12 30	F51	LINEAR
(503765)	2016 PE_{37}	2007 11 02	I93	Mt. Lemmon Survey
(503766)	2016 PX_{67}	2011 09 28	G40	Mt. Lemmon Survey
(503767)	2016 PC_{68}	2009 04 30	F51	Spacewatch
(503768)	2016 PH_{74}	2011 09 27	F51	Mt. Lemmon Survey
(503769)	2016 QA_{10}	2013 03 14	F51	CSS
(503770)	2016 QB_{29}	2007 11 05	F51	Mt. Lemmon Survey
(503771)	2016 QX_{31}	2011 06 06	F51	Pan-STARRS 1
(503772)	2016 QQ_{36}	2008 07 28	691	Mt. Lemmon Survey
(503773)	2016 QB_{43}	2011 09 04	G96	Pan-STARRS 1
(503774)	2016 QS_{47}	2008 01 10	F51	Spacewatch
(503775)	2016 QD_{55}	2008 02 08	461	Mt. Lemmon Survey
(503776)	2016 QK_{57}	2005 10 08	G96	Spacewatch
(503777)	2016 QV_{65}	2006 09 16	G96	Spacewatch
(503778)	2016 QE_{66}	2010 04 10	G96	Spacewatch
(503779)	2016 QR_{67}	2011 09 04	G96	Pan-STARRS 1
(503780)	2016 QS_{67}	2007 11 03	G96	Mt. Lemmon Survey
(503781)	2016 QN_{68}	2003 03 11	G96	Spacewatch
(503782)	2016 RZ_{21}	2009 02 01	G96	Mt. Lemmon Survey
(503783)	2016 RA_{23}	2009 01 31	G96	Spacewatch
(503784)	2016 RD_{42}	2005 10 01	I41	Spacewatch
(503785)	2016 UW_{67}	2005 12 06	G96	Spacewatch
(503786)	2016 UJ_{146}	2013 03 04	J43	Pan-STARRS 1
(503787)	2016 WW_{6}	2008 03 31	L71	Spacewatch
(503788)	2016 WL_{25}	2005 12 02	G96	Spacewatch
(503789)	2016 XR_{21}	2012 03 20	G96	Pan-STARRS 1
(503790)	2016 YV_{7}	2004 03 27	F51	LINEAR
(503791)	2016 YB_{10}	2005 07 29	J43	Siding Spring Survey
(503792)	2017 AB_{15}	2011 10 01	G96	Spacewatch
(503793)	2017 BK_{4}	2006 01 20	198	CSS
(503794)	2017 BK_{12}	2007 09 13	G45	CSS
(503795)	2017 BQ_{111}	2010 09 02	F51	Mt. Lemmon Survey
(503796)	2017 CW_{6}	2008 02 26	703	Spacewatch
(503797)	2017 DT_{33}	2010 06 16	F51	WISE
(503798)	2017 DK_{35}	2009 01 31	F51	Spacewatch
(503799)	2017 EX_{11}	2011 12 29	F51	Mt. Lemmon Survey
(503800)	2017 FM_{55}	2012 04 15	G96	Pan-STARRS 1
(503801)	2017 GA_{7}	2006 05 21	F51	Mt. Lemmon Survey
(503802)	2017 HR_{22}	2006 05 22	D29	Spacewatch
(503803)	2017 HW_{31}	2016 01 03	F51	Pan-STARRS 1
(503804)	2017 HB_{32}	2008 02 28	F51	Mt. Lemmon Survey
(503805)	2017 HU_{42}	2016 01 14	F51	Pan-STARRS 1
(503806)	2017 JP_{1}	2006 03 26	F51	CSS
(503807)	2017 JO_{3}	2011 01 09	703	Mt. Lemmon Survey
(503808)	2017 JB_{4}	2010 01 08	G96	Spacewatch
(503809)	2017 KU_{2}	2008 01 19	G96	Spacewatch
(503810)	2017 KL_{5}	2012 09 06	G96	Siding Spring Survey
(503811)	2017 KV_{5}	2010 11 14	G96	OAM
(503812)	2017 KZ_{8}	2013 05 16	G96	Mt. Lemmon Survey
(503813)	2017 KN_{10}	2007 03 20	F51	Spacewatch
(503814)	2017 KA_{12}	2008 11 18	G96	Spacewatch
(503815)	2017 KB_{12}	2013 04 30	G96	Mt. Lemmon Survey
(503816)	2017 KK_{12}	2014 09 18	G96	Pan-STARRS 1
(503817)	2017 KO_{12}	2013 01 04	G96	Mt. Lemmon Survey
(503818)	2017 KU_{12}	2003 03 31	G96	Spacewatch
(503819)	2017 KX_{15}	2000 05 01	G96	LONEOS
(503820)	2017 KC_{16}	2010 04 06	G96	WISE
(503821)	2017 KE_{16}	2013 02 17	G96	Mt. Lemmon Survey
(503822)	2017 KG_{16}	2010 11 01	G96	Mt. Lemmon Survey
(503823)	2017 KT_{18}	2013 07 15	G96	Pan-STARRS 1
(503824)	2017 KV_{19}	2007 05 11	F51	Mt. Lemmon Survey
(503825)	2017 KX_{19}	2008 10 06	F51	Mt. Lemmon Survey
(503826)	2017 KY_{19}	2006 04 30	F51	Spacewatch
(503827)	2017 KP_{20}	2014 11 26	F51	Pan-STARRS 1
(503828)	2017 KU_{24}	2010 04 20	F51	Mt. Lemmon Survey
(503829)	2017 KK_{25}	2012 03 28	F51	CSS
(503830)	2017 KL_{26}	2006 04 25	F51	Spacewatch
(503831)	2017 KR_{26}	2005 09 15	F51	LINEAR
(503832)	2017 KZ_{26}	2010 01 06	G40	Spacewatch
(503833)	2017 KT_{27}	2014 09 04	K95	Pan-STARRS 1
(503834)	2017 KV_{27}	2004 04 19	V03	LINEAR
(503835)	2017 KZ_{27}	2007 07 18	F51	Mt. Lemmon Survey
(503836)	2017 KS_{29}	2007 12 04	D29	Mt. Lemmon Survey
(503837)	2017 KX_{30}	2008 04 14	Q62	Mt. Lemmon Survey
(503838)	2017 KR_{33}	2010 04 19	F51	WISE
(503839)	2017 KU_{33}	2005 06 27	J43	Spacewatch
(503840)	2017 KO_{35}	1995 11 18	T05	Spacewatch
(503841)	2017 KR_{35}	2003 12 29	F51	Spacewatch
(503842)	2017 KU_{35}	2006 04 02	D29	Spacewatch
(503843)	2017 KW_{35}	2002 03 10	D29	Spacewatch
(503844)	2017 LK_{1}	2008 04 14	G96	Mt. Lemmon Survey

(503845)	2017 MV_3	2010 05 18	F51	WISE
(503846)	2017 MG_5	2015 01 22	J04	Pan-STARRS 1
(503847)	2017 MF_8	2000 07 03	G96	Spacewatch
(503848)	4702 P-L	1960 09 24	675	van Houten & Gehrels
(503849)	1453 T-2	1973 09 29	675	van Houten & Gehrels
(503850)	4150 T-3	1977 10 16	675	van Houten & Gehrels

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2017 Sept. 4.0 TT):

Object	H	M	ω	Ω	i	e	a	MPO
(496816)	20.4	327.80515	17.54119	53.25094	3.85656	0.4728049	1.8641733413707	
(496817)	19.9	349.35497	329.96460	38.79310	2.13218	0.4611263	1.8635762413707	
(496818)	19.2	321.87536	265.06680	171.83247	5.60567	0.4160624	1.9182483413708	
(496819)	18.0	279.99917	353.92986	112.88349	7.73866	0.2629883	2.2389308413708	
(496820)	17.4	130.67240	165.69090	33.33949	9.86994	0.0748843	2.5909241413708	
(496821)	17.6	39.51076	126.53899	191.52525	5.29126	0.1881792	2.6510479413709	
(496822)	16.4	2.98456	0.52967	332.59213	9.00809	0.1630548	3.1072226413709	
(496823)	16.9	319.82050	155.27749	210.43430	5.61828	0.1246450	3.1207059413709	
(496824)	16.0	65.30777	278.21729	9.55901	25.91816	0.1971015	3.0974763413709	
(496825)	18.6	331.53660	33.48054	350.53294	1.84819	0.2105060	2.3880686413710	
(496826)	17.2	11.78302	182.13266	143.15764	1.44479	0.1654607	3.1094783413710	
(496827)	17.7	315.33709	227.03209	193.21931	9.98460	0.2298072	3.1347302413710	
(496828)	17.4	327.30689	16.66667	9.04816	13.57434	0.2023106	2.6989970413710	
(496829)	18.2	349.95182	314.61419	23.09956	2.28981	0.2173140	2.3988879413710	
(496830)	16.3	296.40935	85.97537	12.04244	25.83996	0.2460161	3.1177656413711	
(496831)	16.9	352.46344	291.63517	68.91826	1.96065	0.1831133	3.1585203413711	
(496832)	18.4	307.37728	298.30398	106.07373	3.53264	0.1856445	2.4078587413711	
(496833)	17.1	237.67040	7.41797	89.10205	5.05317	0.0666600	2.8073149413711	
(496834)	20.3	340.39430	214.91542	171.72225	6.03908	0.4104225	2.3084448413712	
(496835)	17.3	160.60980	45.49071	154.66687	9.38791	0.0906270	2.7369492413712	
(496836)	16.9	44.90001	355.40050	305.96544	8.51750	0.2633058	2.7880941413712	
(496837)	20.9	285.42527	67.62407	6.79128	15.62859	0.1613033	1.2260942413713	
(496838)	17.4	359.08104	320.27838	22.63773	2.02852	0.0869294	2.8415659413713	
(496839)	17.0	9.81716	287.19054	64.85172	2.94753	0.0853067	2.8616611413713	
(496840)	15.9	143.36098	258.46406	300.44954	14.63035	0.1332587	3.0054029413714	
(496841)	16.1	194.81187	182.37322	342.88743	22.54518	0.3028362	3.0081169413714	
(496842)	16.9	350.15848	45.24811	330.88414	15.01135	0.3391026	2.7177608413714	
(496843)	17.1	358.18094	145.94734	166.92550	4.80396	0.0548900	2.7689030413714	
(496844)	17.2	319.61508	29.18661	1.94466	4.83437	0.1727409	2.7592317413715	
(496845)	18.1	322.44325	144.64053	221.59332	0.68699	0.2038964	2.3834422413715	
(496846)	18.4	22.12129	32.81851	275.26617	1.97588	0.2455057	2.3645611413715	
(496847)	16.9	329.06507	195.93132	197.49378	18.55929	0.2884571	2.7503036413716	
(496848)	18.2	310.76689	42.53060	356.10482	2.03742	0.2283922	2.3636731413716	
(496849)	17.8	301.19584	46.44866	20.53711	4.81503	0.1132407	2.7470444413716	
(496850)	18.1	325.40910	8.04455	44.59109	4.81346	0.2414925	2.3513511413716	
(496851)	18.2	356.98507	298.06392	39.07083	5.11279	0.1724617	2.3751075413717	
(496852)	17.3	349.11100	342.90174	25.57657	4.80908	0.0903277	2.7505310413717	
(496853)	18.0	251.60816	175.51570	297.18939	1.98123	0.1442980	2.3760976413717	
(496854)	18.5	352.40031	137.00095	211.18947	0.83525	0.1995534	2.3754559413717	
(496855)	18.0	12.90100	171.28146	164.96184	1.91362	0.1973038	2.3708316413718	
(496856)	18.2	316.46552	344.49247	42.24913	2.04330	0.1929599	2.3830967413718	
(496857)	16.9	116.40290	127.15406	231.92822	12.83079	0.1325018	2.6207003413718	
(496858)	18.4	310.45000	154.24734	229.00994	0.42287	0.1922929	2.3888933413718	
(496859)	18.6	293.19454	182.91619	232.35571	4.57830	0.2212530	2.3877030413719	
(496860)	19.5	63.26174	275.04205	270.38264	8.91161	0.6477373	1.8176035413719	
(496861)	17.9	341.39043	326.46537	71.58814	10.11595	0.5594626	1.8688480413719	
(496862)	17.7	239.59900	13.58447	129.20408	8.09816	0.0513150	2.4084223413720	
(496863)	18.2	154.37254	335.82020	143.64878	33.42185	0.1743429	1.7851058413720	
(496864)	17.3	288.61976	296.36693	129.54094	4.36971	0.0526572	2.8678049413720	
(496865)	16.5	94.61615	251.73936	345.49416	13.47194	0.2127291	2.9818353413721	
(496866)	16.2	105.16645	165.72611	59.40796	11.20729	0.2142850	3.0420879413721	
(496867)	18.5	38.31785	97.81874	173.01344	5.32885	0.2318183	2.2387971413721	
(496868)	18.3	18.46975	25.79168	256.73029	7.36750	0.4165470	2.2536974413722	
(496869)	18.1	320.27659	87.37513	339.52345	22.32398	0.6489311	2.2801186413722	
(496870)	16.5	10.72251	47.94575	299.69803	8.93078	0.2681085	3.1417018413723	
(496871)	16.1	359.44991	55.95199	288.58264	14.22220	0.3477682	3.1555096413723	
(496872)	17.4	327.97481	72.16058	343.79337	27.62380	0.3944329	2.6314807413723	
(496873)	16.5	315.59579	94.67331	353.61666	27.29716	0.4074959	2.6185173413724	
(496874)	18.2	350.18654	358.46002	355.46745	9.16622	0.2918786	2.2682159413724	
(496875)	15.9	342.29249	57.08580	336.77768	26.09896	0.2751415	3.1655493413725	
(496876)	16.5	317.27647	84.75728	336.32571	27.95615	0.3435959	2.6348622413725	
(496877)	16.6	263.34981	170.37126	208.30938	4.43027	0.1352836	2.7235331413725	
(496878)	17.3	334.15585	211.02451	173.94787	5.54689	0.3081514	2.6414628413726	
(496879)	17.5	345.12427	21.35469	4.58475	4.89617	0.1320801	2.2544469413726	
(496880)	15.3	344.02757	27.24221	352.75148	27.43919	0.1860439	3.1937174413726	
(496881)	16.5	354.69068	10.60996	8.26182	14.98670	0.2748776	2.6063535413727	
(496882)	17.5	323.75094	260.44296	135.08634	7.27538	0.2826538	2.6395045413727	
(496883)	16.0	329.70584	90.36171	318.09731	24.38144	0.2958745	3.1727889413727	
(496884)	17.3	340.55309	21.31938	30.60737	7.74122	0.3185675	2.6184671413728	
(496885)	17.3	346.91140	207.94178	151.39517	10.20583	0.2822842	2.6346115413728	
(496886)	18.0	331.51910	92.41245	300.76767	4.45581	0.1650025	2.2709566413728	
(496887)	18.4	320.16841	236.76687	147.17513	1.50930	0.2120976	2.2933668413728	
(496888)	16.9	326.42344	9.40982	40.20373	14.24180	0.2374707	2.6469209413729	
(496889)	17.6	334.78648	354.44452	20.89545	7.33689	0.1829287	2.2809237413729	
(496890)	17.6	335.09440	144.98386	232.57529	5.28335	0.2732819	2.2801740413729	
(496891)	16.7	317.56675	127.08837	281.96742	22.23502	0.2615018	2.2935954413730	
(496892)	16.4	273.92908	214.00443	245.75460	9.49209	0.0618155	2.6706231413730	
(496893)	16.9	310.69849	50.20573	28.54758	7.77683	0.3036172	2.6555663413731	
(496894)	17.8	295.44324	97.34839	317.23406	6.82473	0.2263287	2.7270546413731	
(496895)	16.9	286.13300	68.69046	50.11443	21.84152	0.3138089	2.2940962413731	
(496896)	16.6	329.48391	103.79671	319.19178	25.80587	0.4811990	2.6590980413731	
(496897)	19.0	199.32270	30.34576	129.71065	25.08895	0.0176910	1.4369023413732	
(496898)	16.9	277.29423	147.90656	338.04370	3.59979	0.2195178	2.7027999413732	
(496899)	16.9	189.54329	173.28228	3.54990	24.72687	0.1889390	2.3615223413733	
(496900)	18.0	305.89750	149.92730	250.81068	0.49612	0.1832370	2.3752528413733	
(496901)	20.4	358.84549	237.84748	195.93852	9.28906	0.6938938	1.3140208413733	
(496902)	16.6	357.60313	275.65258	71.45382	17.93500	0.4027145	3.0505486413734	
(496903)	17.0	4.15725	178.42416	162.81442	1.63900	0.1862395	3.0454662413734	
(496904)	16.9	357.76957	96.60776	266.98036	8.27647	0.2401386	3.0221628413734	
(496905)	17.2	307.80232	111.58670	246.46447	4.08897	0.2490701	2.5667838413734	
(496906)	16.6	26.82055	58.26355	289.81264	5.29691	0.2468676	2.9922013413735	
(496907)	17.7	331.60576	30.84424	295.88138	5.27722	0.2867391	2.5668515413735	
(496908)	15.1	20.79424	342.17978	353.82072	16.80995	0.2727907	3.9758259413735	
(496909)	18.0	329.65932	29.05125	357.25590	9.41196	0.2921163	2.5305357413736	

(496910)	16.0	321.90928	207.92612	215.93024	14.27790	0.2429572	3.0781556413736
(496911)	16.4	353.01664	325.32004	346.90172	16.42499	0.1744364	3.1051367413736
(496912)	18.3	345.21592	190.44314	162.91471	6.22007	0.1630787	2.1833524413737
(496913)	16.9	349.61611	322.54996	47.51746	3.10442	0.2536391	3.0547651413737
(496914)	16.3	343.16413	3.70702	19.78765	10.05441	0.3448021	3.0634892413737
(496915)	16.9	346.97214	356.21765	347.68100	2.18347	0.1748051	3.0735840413738
(496916)	18.5	343.24540	183.45720	187.63955	32.62161	0.1928876	1.7299802413738
(496917)	16.9	341.24354	235.18722	188.31072	6.08048	0.2498968	3.0017486413738
(496918)	16.4	350.01231	190.29755	202.68560	9.88089	0.2087012	3.0343680413738
(496919)	17.6	17.66967	294.44259	15.04181	20.12894	0.0498996	1.9453047413739
(496920)	16.6	131.89688	348.85057	223.36886	11.58134	0.1169814	2.5741481413739
(496921)	18.4	23.74736	313.93628	3.29216	6.17660	0.1949177	2.1776621413739
(496922)	18.6	332.91990	341.72181	66.18537	5.05074	0.1721262	2.5169347413740
(496923)	16.4	287.89932	16.56996	18.23097	12.03445	0.1054128	3.1596867413740
(496924)	15.3	304.92044	176.74935	235.27323	15.11471	0.2493179	3.1202264413740
(496925)	17.0	25.55939	261.82246	88.31252	2.44539	0.1665343	3.0457484413741
(496926)	17.5	331.02143	185.26404	215.15476	5.80910	0.2314284	2.5371170413741
(496927)	17.7	60.69792	271.38217	49.56114	23.25110	0.0637291	1.9214569413741
(496928)	18.4	336.86365	151.60522	213.86996	5.85494	0.2069044	2.1915973413742
(496929)	18.2	354.59033	135.38412	221.43098	3.67495	0.2547010	2.5310950413742
(496930)	16.6	305.04086	179.77004	236.69265	3.24877	0.2387323	3.1120361413742
(496931)	18.2	342.39161	311.85596	73.55096	5.37272	0.2090013	2.5240886413743
(496932)	16.3	320.28999	38.01694	11.11902	15.30893	0.1282335	3.0562752413743
(496933)	16.9	345.52930	165.12820	211.03666	21.14361	0.3110044	3.0549774413743
(496934)	16.2	329.86539	193.46201	220.77526	14.20676	0.2565456	3.0794353413743
(496935)	16.4	327.69070	147.94439	238.00659	17.84984	0.1919098	3.1139899413744
(496936)	17.4	342.22159	340.29512	51.71245	13.60630	0.1725255	2.5367489413744
(496937)	16.1	327.55804	91.90116	254.69309	9.06952	0.3714845	3.1408400413744
(496938)	15.8	319.52975	325.49864	55.99227	17.76850	0.1418950	3.1510953413745
(496939)	15.8	342.16732	321.28162	69.89226	13.36994	0.1199544	3.1007381413745
(496940)	16.4	292.23714	341.66633	71.81735	11.94091	0.2341515	3.1650072413745
(496941)	17.7	311.59396	186.45414	220.88834	10.72945	0.2268739	2.5530409413746
(496942)	17.1	316.42208	178.21202	228.47774	9.10697	0.3033764	3.1150903413746
(496943)	18.0	350.85748	280.12249	72.64233	5.70335	0.3148104	2.5465287413746
(496944)	16.1	320.72692	349.50966	66.07360	14.93977	0.1484377	3.1129180413746
(496945)	17.2	342.60510	103.00795	270.13157	15.86695	0.2541927	2.5603764413747
(496946)	17.9	279.40324	149.30399	280.82846	18.28746	0.1260100	1.9574200413747
(496947)	16.4	358.11390	198.65281	189.26432	1.49944	0.3104314	3.0664279413747
(496948)	17.8	326.70602	316.92994	84.92742	3.56648	0.2206004	2.5499875413748
(496949)	16.2	273.12060	180.21300	259.00686	11.02317	0.1540955	3.1737937413748
(496950)	17.8	304.49291	172.29870	263.16466	12.34074	0.2600888	2.5561920413748
(496951)	17.2	259.40731	153.46299	294.37644	11.05609	0.1609342	2.6023197413748
(496952)	17.0	202.33112	3.09113	120.75484	11.75594	0.1480006	2.6669636413749
(496953)	16.9	187.12794	181.99768	308.50335	11.20717	0.1553471	2.7009372413749
(496954)	17.6	303.35139	138.58282	311.58695	3.40810	0.1919103	2.5646010413749
(496955)	17.5	295.59882	348.00321	106.33290	7.56643	0.2391023	2.5769975413750
(496956)	16.6	218.33493	13.85062	120.93718	13.49519	0.1210556	2.6534556413750
(496957)	16.8	208.18234	34.35423	128.81827	8.51955	0.1427998	2.6336563413750
(496958)	15.6	311.45225	286.87843	141.07836	26.98728	0.2958308	3.1753127413751
(496959)	17.6	227.06176	14.60145	132.47545	7.08323	0.2007833	2.6349915413751
(496960)	17.1	79.59585	237.52653	331.26577	7.78192	0.2299337	2.7996845413751
(496961)	17.5	77.81365	161.78743	90.77075	5.60002	0.2029617	2.3385182413752
(496962)	20.3	324.36879	24.75165	31.21281	8.10896	0.3313210	1.2849682413752
(496963)	17.9	343.87919	30.91000	314.13083	4.68241	0.2453566	2.4176266413752
(496964)	18.4	26.70276	31.17080	267.16830	2.21703	0.1884226	2.4065398413752
(496965)	17.5	5.84273	193.61954	169.98678	13.52665	0.4341232	2.8940343413753
(496966)	17.5	5.47247	3.37490	330.28361	10.82306	0.2931427	2.4099162413753
(496967)	18.1	7.12024	353.51627	326.42123	0.71489	0.2037513	2.4120450413754
(496968)	18.2	355.81159	29.71436	342.06315	0.57527	0.2035419	2.3900933413754
(496969)	18.5	330.73905	333.94349	27.47804	1.55074	0.2496148	2.4247911413754
(496970)	17.7	16.36794	329.48712	359.80518	5.61761	0.3417702	2.3962107413755
(496971)	17.8	10.84187	357.08708	349.99266	3.36395	0.2067229	2.3991961413755
(496972)	17.8	358.41826	217.12454	113.88507	2.04714	0.1614858	2.4259500413755
(496973)	18.0	318.92686	40.22335	330.78675	1.74358	0.2168138	2.4321771413755
(496974)	18.6	1.93555	286.60060	62.95878	2.32783	0.2166098	2.3975263413756
(496975)	18.5	13.38684	101.57531	229.98930	2.25326	0.2056396	2.4004707413756
(496976)	18.4	347.30680	248.10308	92.34240	2.36028	0.2066912	2.4256399413756
(496977)	18.0	16.00733	19.31786	304.61962	4.20666	0.2357600	2.4016196413757
(496978)	16.9	45.45247	311.87898	309.46687	5.23912	0.2911317	2.9234462413757
(496979)	18.5	29.52856	210.55038	113.40803	3.57697	0.1740844	2.3848559413757
(496980)	18.5	7.87463	185.05625	144.30241	2.06702	0.2041076	2.4046403413757
(496981)	21.3	327.53579	250.50448	163.48865	8.00077	0.3909784	1.6616591413758
(496982)	17.0	343.07940	95.66158	263.75097	6.34627	0.2786270	2.9320571413758
(496983)	17.1	29.40103	167.19231	174.00894	10.25708	0.3159892	2.8731594413758
(496984)	18.0	337.05015	132.53225	234.90517	8.00217	0.2862159	2.4275272413759
(496985)	17.9	3.26919	331.91662	352.15730	2.18273	0.2063224	2.4298700413759
(496986)	17.5	352.65981	32.72213	328.39783	10.33863	0.2125123	2.4059743413759
(496987)	17.7	359.82739	140.88231	213.29891	4.27744	0.2315089	2.4071888413759
(496988)	18.1	26.84620	172.71068	173.74469	4.46153	0.2208482	2.3845251413760
(496989)	17.2	325.67034	52.99995	339.10231	14.26793	0.2762600	2.9371146413760
(496990)	18.7	355.71330	119.08596	239.72726	2.46113	0.2333060	2.4059698413760
(496991)	17.8	38.81116	301.30902	330.49799	5.46618	0.1371604	2.4410674413761
(496992)	15.6	313.64106	7.14671	8.03699	8.06699	0.2469467	3.9621086413761
(496993)	17.1	23.53615	308.70563	32.31628	2.41495	0.0753494	2.8864787413761
(496994)	18.4	18.61971	312.73991	8.04903	46.46630	0.0479334	1.8595158413761
(496995)	17.5	313.27570	186.46834	202.51499	4.57522	0.2043130	2.4504843413762
(496996)	17.0	264.25837	230.57170	182.97115	10.36661	0.0235838	3.0038759413762
(496997)	18.0	30.31985	289.09589	24.82215	6.80024	0.1288437	2.4207238413762
(496998)	15.7	358.22932	317.38334	4.70788	2.74234	0.2224131	3.9201722413762
(496999)	17.2	290.83173	234.10989	189.25775	5.11471	0.1655273	2.9641823413762
(497000)	15.6	355.78419	103.58461	288.28445	15.24181	0.2683565	2.9298643413763
(497001)	17.0	351.26184	140.05579	223.08800	2.86248	0.1789965	2.9617238413763
(497002)	18.3	350.40031	158.74260	182.89845	0.78972	0.2063168	2.4342059413763
(497003)	15.6	340.28009	66.24672	286.22019	1.89328	0.2612597	3.9832047413764
(497004)	18.7	11.24298	294.39034	36.77339	25.40876	0.2530877	1.8492714413764
(497005)	16.2	343.60281	107.89048	244.94776	12.47877	0.1972053	2.4723639413764
(497006)	18.2	221.20871	335.54010	102.89764	37.49330	0.0702023	1.7110837413765
(497007)	17.3	206.51264	114.86577	3.17357	3.77800	0.2108762	2.5523163413765
(497008)	17.5	223.42580	332.46462	149.62439	8.64393	0.2290559	2.5387504413765
(497009)	16.4	10.24380	214.19163	264.90990	14.87909	0.5374974	3.7381802413766
(497010)	16.4	183.78836	35.04786	129.85462	10.48264	0.1722542	3.1855838413766
(497011)	17.7	199.81590	210.06995	299.87275	4.11060	0.1717608	2.5416213413766
(497012)	16.9	181.48137	172.21453	335.04281	13.11833	0.1849988	2.5742635413767
(497013)	18.0	176.88133	183.73717	348.58455	19.71980	0.0544721	1.9082113413767

(497014)	17.0	153.80806	224.79975	324.94313	3.87768	0.1400637	2.5876645413767
(497015)	16.7	95.74954	46.97545	203.96983	9.22160	0.0319726	2.6058892413768
(497016)	17.4	147.51505	46.49967	150.20558	5.75975	0.2286765	2.6141155413768
(497017)	17.3	130.65534	0.83210	186.51002	15.29355	0.2146508	2.6431502413768
(497018)	17.4	116.33463	38.29221	187.77699	12.66132	0.2030999	2.6237824413769
(497019)	19.5	331.14839	228.63076	172.54031	19.55340	0.0468243	1.4221516413769
(497020)	17.9	174.80405	153.39543	30.54301	21.70443	0.0698108	1.9146992413769
(497021)	17.4	45.87247	45.06852	206.18712	8.22805	0.3406651	2.7348060413770
(497022)	16.5	347.63481	229.25123	135.93809	15.91370	0.3189661	2.7672263413770
(497023)	16.9	23.08124	315.37909	54.67686	7.19530	0.2566520	2.6296803413770
(497024)	17.9	356.83904	176.82980	178.74789	4.19299	0.2387954	2.3008361413771
(497025)	20.4	261.11289	303.11325	164.59168	11.27914	0.3317082	1.0533238413771
(497026)	18.6	335.88563	243.89339	145.75676	6.30558	0.3605417	2.3057956413771
(497027)	18.2	34.99973	146.97452	164.44383	6.56945	0.2632492	2.2856307413772
(497028)	17.0	358.88619	255.07795	85.80853	9.75305	0.3430177	2.7944184413772
(497029)	18.2	356.90607	137.80299	225.29651	4.47248	0.2117971	2.2981385413772
(497030)	17.7	315.23097	78.68145	316.61540	3.92924	0.1689903	2.7886089413773
(497031)	17.8	5.83030	354.31639	8.49939	9.59179	0.2664457	2.2884994413773
(497032)	18.5	2.57530	157.10794	206.06577	7.45205	0.3089546	2.2914539413773
(497033)	18.0	285.25080	106.91726	329.46646	6.21603	0.0934876	2.3041760413774
(497034)	18.0	345.34272	359.00705	357.27148	11.10784	0.2545721	2.3197486413774
(497035)	17.8	24.68951	63.04387	251.72581	4.49030	0.1757572	2.3110385413774
(497036)	18.6	340.04927	32.04811	343.97015	8.91507	0.3200005	2.3092570413774
(497037)	17.1	334.39884	39.41762	341.46254	7.28468	0.2214392	2.8036133413775
(497038)	17.9	334.48727	254.35004	111.37329	5.06838	0.2534731	2.3216887413775
(497039)	18.1	354.40286	347.86979	11.90836	6.27523	0.1969224	2.3052848413775
(497040)	17.9	25.39972	304.64841	10.74027	6.48521	0.2650520	2.3125078413776
(497041)	17.1	349.80365	152.81022	224.67064	7.23068	0.3164328	2.7903861413776
(497042)	18.2	350.87471	339.68735	11.84919	5.18254	0.2441404	2.3169970413776
(497043)	16.6	355.59036	2.17760	27.18564	9.31198	0.3133968	2.7811735413777
(497044)	18.6	351.10991	52.01804	315.18467	4.42064	0.2595112	2.3123331413777
(497045)	17.0	17.23145	46.49630	296.44927	3.92517	0.1665096	2.7737504413777
(497046)	17.3	34.84540	94.05493	224.65963	3.01545	0.0706178	2.7876790413778
(497047)	17.4	23.72439	129.19933	215.84195	3.58533	0.0869360	2.7659947413778
(497048)	17.8	354.34675	294.38475	53.66957	3.21392	0.2533529	2.3131819413778
(497049)	18.8	13.44238	307.11397	7.04858	4.26766	0.3087311	2.3099543413778
(497050)	17.3	32.02103	346.59081	294.45682	5.99352	0.1805117	2.3351891413779
(497051)	17.9	339.96800	211.12689	161.21329	2.88271	0.2031980	2.3172130413779
(497052)	17.6	116.81142	232.27297	354.26304	19.96750	0.0560016	2.3091373413779
(497053)	16.8	333.88934	54.10751	313.45767	5.75057	0.1478628	2.8024897413780
(497054)	17.1	12.55886	190.81907	178.35881	8.62038	0.3088024	2.7709305413780
(497055)	17.2	320.85448	80.66057	347.53752	3.58019	0.1974660	2.7657427413780
(497056)	17.5	293.07944	262.36216	194.30366	3.79179	0.1793018	2.7674482413780
(497057)	17.3	22.48908	355.02428	349.06988	4.52408	0.0937821	2.7682785413781
(497058)	18.7	5.09020	136.07430	204.83712	1.84536	0.2336878	2.3159315413781
(497059)	16.3	311.78997	162.48430	260.85870	12.78679	0.2277803	2.8024237413781
(497060)	18.7	118.77722	51.69591	326.77391	2.80507	0.1867356	2.1776494413781
(497061)	16.2	16.61697	105.54844	262.48500	11.69683	0.2239623	2.7742292413782
(497062)	18.6	13.98497	308.65758	30.39432	6.23209	0.2554008	2.3069624413782
(497063)	17.8	4.08999	128.95266	203.51715	4.54681	0.2571439	2.3316538413782
(497064)	16.2	6.53822	318.15424	62.46190	10.24580	0.2310145	2.7794210413783
(497065)	18.7	286.14627	267.47992	141.41314	1.71407	0.1644825	2.3461335413783
(497066)	16.8	9.87657	187.65823	164.23282	10.14978	0.2986198	2.7949774413783
(497067)	16.6	338.62083	336.93445	34.32446	8.55140	0.2678636	2.8422793413784
(497068)	18.4	3.31033	120.08143	219.37757	2.76077	0.2799700	2.3210856413784
(497069)	17.8	339.31032	338.75391	10.05054	2.77825	0.2116010	2.3450005413784
(497070)	18.6	320.61338	120.90579	268.32983	1.55346	0.2101289	2.3341761413785
(497071)	18.2	315.74478	7.77977	35.09705	7.21943	0.1618309	2.3291591413785
(497072)	18.2	314.23248	300.01498	104.94871	3.08765	0.2055454	2.3234971413785
(497073)	17.7	300.57419	204.73005	200.84162	3.21026	0.2160416	2.8602510413785
(497074)	18.3	272.51633	333.27554	110.37726	7.13989	0.0799104	2.3356180413785
(497075)	16.9	339.26787	324.26147	80.85210	6.31623	0.1725286	2.7852428413786
(497076)	17.9	328.27428	120.74626	256.28559	4.97725	0.2258535	2.3420959413786
(497077)	18.4	323.54637	125.49969	248.80992	4.98098	0.1337096	2.3547526413786
(497078)	17.6	180.77744	255.33055	244.89785	6.38018	0.0350344	2.3901258413786
(497079)	18.6	270.39013	228.20818	226.61653	3.93639	0.1968316	2.3477068413787
(497080)	18.3	325.98415	1.16411	34.22284	3.72171	0.2357133	2.3303629413787
(497081)	17.2	337.08274	297.51030	109.06229	10.55120	0.3844743	2.7968922413787
(497082)	18.0	330.48723	277.59360	99.81319	2.05482	0.1916008	2.3425730413788
(497083)	17.8	356.83984	150.39601	212.11886	4.33783	0.2295248	2.3213360413788
(497084)	17.6	1.14864	288.78701	76.61844	23.40436	0.2889261	2.3083815413788
(497085)	18.2	315.57196	340.69434	89.63072	6.30613	0.2096894	2.3209863413788
(497086)	18.5	289.08841	347.49642	83.11513	1.87212	0.1856025	2.3538574413789
(497087)	18.2	313.21283	205.18437	187.17739	0.75601	0.1706757	2.3587542413789
(497088)	18.0	290.87408	209.59229	215.89298	0.97541	0.1716449	2.3575361413789
(497089)	16.9	342.12221	119.64151	255.32975	13.71757	0.1605176	2.8570059413789
(497090)	18.2	331.12675	112.97092	253.72648	1.47730	0.1814054	2.3569778413790
(497091)	18.5	297.32421	79.46173	0.77577	5.12692	0.3184746	2.3524374413790
(497092)	17.3	309.51151	127.81943	284.77241	22.55730	0.2527862	2.3543465413790
(497093)	17.7	279.37652	74.30458	40.18944	6.24053	0.3736668	2.3629165413790
(497094)	19.0	318.89655	300.70837	109.67694	15.99167	0.4238736	1.9953038413791
(497095)	15.9	31.81953	347.46540	303.60343	11.66716	0.0253600	3.0418967413791
(497096)	18.9	356.43835	295.09879	76.66143	4.30196	0.5217427	2.3111312413792
(497097)	16.5	286.74402	316.42935	102.80076	14.15513	0.2421430	2.9406261413792
(497098)	16.5	196.68040	182.59134	308.53880	11.17938	0.1273318	3.0435953413792
(497099)	17.0	290.52925	301.24274	126.74643	28.90932	0.4228692	2.3576656413792
(497100)	18.1	278.93408	322.01786	106.14917	2.32349	0.1536761	2.4035298413793
(497101)	17.7	270.16853	155.87537	288.37352	5.65826	0.0930102	2.4000794413793
(497102)	16.9	233.26185	172.70124	315.57826	3.61649	0.1470989	2.9686645413793
(497103)	16.1	6.98627	213.02826	163.27996	6.32547	0.2401092	2.9766620413794
(497104)	16.4	201.34644	72.97720	36.43927	0.44089	0.1444106	3.0755859413794
(497105)	16.8	302.29983	299.89129	128.70425	16.95582	0.2002958	2.9174657413794
(497106)	16.4	310.30717	57.61122	329.16760	8.69011	0.0764134	3.0139604413794
(497107)	16.4	125.51730	248.78285	314.00509	25.12148	0.1867121	3.1036050413795
(497108)	18.7	82.56800	80.92947	150.48054	23.59270	0.0633175	1.8375289413795
(497109)	16.6	217.28011	123.75011	328.90236	11.93241	0.0986444	3.1104685413795
(497110)	16.3	288.03587	55.87406	352.92642	9.41931	0.0218168	3.0712410413796
(497111)	16.2	174.28721	180.29259	351.02538	14.38558	0.2074856	3.0784399413796
(497112)	17.2	39.42204	101.07107	155.15980	27.21384	0.4487682	2.6224845413796
(497113)	22.1	271.42868	300.38976	166.95023	11.64037	0.2509394	1.2502346413797
(497114)	16.8	99.88796	246.00426	348.66438	15.44358	0.1811629	3.1569304413797
(497115)	16.7	6.04888	86.73689	168.46988	17.76760	0.2228552	2.6212321413797
(497116)	16.8	330.94498	174.52855	168.26638	11.56287	0.2950070	2.5257609413798
(497117)	18.3	285.01382	46.26135	31.59748	23.25408	0.2637804	1.2600217413798

(497118)	16.7	181.38910	200.65532	359.41458	7.94366	0.0319389	2.4275952413799
(497119)	16.9	111.40844	194.08275	22.37054	2.45012	0.0677426	3.1519070413799
(497120)	17.1	200.51510	164.83010	3.84600	6.65160	0.0617330	2.4469533413799
(497121)	17.6	186.83142	99.80496	95.15804	6.72994	0.0694987	2.4514039413800
(497122)	16.1	60.80913	97.95786	203.86198	9.16110	0.2118061	3.1584460413800
(497123)	16.2	36.97466	14.35434	241.54113	14.07915	0.0409612	2.6139112413800
(497124)	16.0	67.68456	310.38600	295.23561	30.86150	0.2537223	2.6220259413801
(497125)	17.5	274.86626	144.36923	286.17109	19.26440	0.0483147	1.8718576413801
(497126)	17.1	10.83581	221.73221	108.01678	7.83454	0.3610226	2.6477115413801
(497127)	17.3	350.72752	193.68563	145.79894	9.39017	0.3287633	2.6624365413802
(497128)	16.9	358.99093	5.44876	350.91619	8.57000	0.3445374	2.6546670413802
(497129)	17.3	355.90418	237.91165	142.08937	14.08083	0.2901643	2.6200317413803
(497130)	17.0	1.99054	62.42045	315.39556	27.69390	0.4252381	2.6184430413803
(497131)	16.8	30.81654	352.98774	345.07002	3.56903	0.1951323	2.6036640413803
(497132)	17.3	6.11181	291.62631	65.89434	7.63920	0.3299119	2.6262988413803
(497133)	18.1	13.76478	301.94089	17.30641	6.22778	0.2442221	2.1866206413804
(497134)	17.0	26.88952	319.82612	3.68381	13.47256	0.2552749	2.6254230413804
(497135)	18.1	57.80057	353.39612	224.21919	17.54085	0.6978761	2.1730382413804
(497136)	17.2	338.77323	267.38368	120.40705	4.71503	0.2605432	2.6690253413804
(497137)	17.5	14.99089	158.83630	200.02407	13.83690	0.2775679	2.6069375413805
(497138)	17.4	349.02668	276.66027	102.35391	8.65790	0.4018833	2.6560736413805
(497139)	17.5	4.00838	43.11102	339.01569	12.93575	0.2678428	2.6144798413805
(497140)	17.9	143.47978	207.72827	121.62581	1.41580	0.2132500	2.4565230413806
(497141)	17.7	331.39158	126.90737	235.31450	0.89038	0.2179993	2.6868696413806
(497142)	17.0	62.97830	291.99939	353.91019	29.47941	0.2798388	2.6145488413806
(497143)	16.8	339.46550	348.23075	25.35454	4.37816	0.1797721	2.6577246413806
(497144)	16.9	342.15714	216.72068	185.81216	3.23345	0.1996953	2.6256854413807
(497145)	17.1	34.36184	286.68658	332.81415	7.46486	0.3276834	2.6847928413807
(497146)	17.3	325.71089	203.07780	169.45966	14.78433	0.2641417	2.6757004413807
(497147)	17.4	18.96264	144.43119	193.08189	4.43263	0.2809319	2.6246853413808
(497148)	18.7	327.92780	145.25710	191.01392	5.83607	0.2366781	2.2282480413808
(497149)	18.7	334.13420	207.95355	183.45639	22.35237	0.1000036	1.8834912413808
(497150)	17.1	343.08517	235.40913	180.49746	12.45678	0.1759524	2.6019867413808
(497151)	17.2	358.48838	359.11189	12.23389	13.43410	0.2940799	2.6428224413809
(497152)	16.7	354.94808	49.84871	339.28152	16.90302	0.2141186	2.6278981413809
(497153)	17.7	32.73004	31.83382	282.36355	5.30111	0.1877775	2.1867041413809
(497154)	18.1	19.40055	80.55548	247.96750	3.70027	0.1738445	2.1900673413809
(497155)	17.2	347.95125	161.48393	191.63309	9.14452	0.3090114	2.6772630413810
(497156)	17.4	343.90505	38.47060	331.67090	7.16107	0.2915530	2.6740312413810
(497157)	17.2	329.30203	71.20634	335.87706	12.02252	0.2700838	2.6676973413810
(497158)	17.9	355.05927	133.47021	217.89120	3.60065	0.3024494	2.6687555413811
(497159)	16.9	5.16437	166.91879	198.23636	13.91024	0.2572095	2.6447349413811
(497160)	16.8	0.24406	104.85377	262.09147	10.09532	0.3212602	2.6423644413811
(497161)	18.4	24.46385	306.61173	355.94334	5.28115	0.2035576	2.2013926413812
(497162)	17.3	349.12401	351.24550	359.32945	4.81128	0.1575874	2.6778821413812
(497163)	17.8	9.85340	123.81466	202.69090	11.73210	0.2827198	2.6522199413812
(497164)	17.7	324.95092	127.31643	284.42931	6.20006	0.4020576	2.6787767413812
(497165)	16.2	76.27617	284.62746	7.01859	29.05876	0.1633966	2.6080335413813
(497166)	18.1	323.69645	162.42476	212.83588	6.66693	0.1185487	2.2259070413813
(497167)	17.5	334.65816	328.97932	60.81178	2.82091	0.2898005	2.6608047413813
(497168)	18.1	343.16650	347.07105	39.38085	8.21598	0.3422952	2.1945042413814
(497169)	17.2	20.57846	122.63944	201.96208	29.70199	0.3111694	2.6548834413814
(497170)	17.3	352.43394	143.11360	253.25207	2.91433	0.1914835	2.6131482413815
(497171)	17.0	298.46784	209.22854	201.74775	8.70293	0.2474458	2.7075909413815
(497172)	17.8	28.09485	295.86276	20.32380	21.10485	0.0983106	1.9009880413815
(497173)	18.3	302.15688	51.15302	26.95123	21.42702	0.1483068	1.8955297413815
(497174)	21.4	144.71677	347.70226	205.32375	24.60332	0.2987582	1.0577045413816
(497175)	17.6	64.80257	58.40811	244.10908	21.09807	0.0543523	1.8818737413816
(497176)	18.4	344.44387	163.37865	233.20358	10.47893	0.5177028	2.6738136413816
(497177)	17.8	340.48209	120.81899	281.04330	1.18307	0.2078856	2.6538830413817
(497178)	18.6	3.50549	331.01308	11.13527	2.88593	0.1735768	2.2082433413817
(497179)	18.8	323.28405	182.75746	196.20268	3.44544	0.1513873	2.2220971413817
(497180)	17.5	16.00371	309.99546	20.05880	6.20870	0.1758756	2.6795492413818
(497181)	17.4	24.47666	1.96780	338.00798	3.20971	0.2151417	2.6566750413818
(497182)	16.8	1.23068	320.96740	40.17988	12.44899	0.2074590	2.6782090413818
(497183)	18.6	291.56963	29.90462	28.16560	4.17902	0.1279533	2.2246443413818
(497184)	17.8	15.07756	134.53550	223.68881	1.89587	0.1109984	2.6504299413819
(497185)	17.5	320.51871	69.92048	312.46764	1.15952	0.2440664	2.6972604413819
(497186)	18.6	8.42916	7.25462	328.44084	2.85152	0.1924184	2.2056892413819
(497187)	17.3	49.35668	117.12798	197.31968	12.68361	0.2677248	2.6277485413819
(497188)	16.6	327.76751	24.91800	19.37559	15.10986	0.1925532	2.6760317413820
(497189)	17.4	333.37917	196.15568	211.83533	4.24037	0.1705970	2.6687266413820
(497190)	17.4	326.47869	109.74031	294.96579	4.01802	0.2663748	2.6813913413820
(497191)	17.4	308.32204	182.03131	205.52127	8.41488	0.1233023	2.7199743413820
(497192)	17.6	294.88962	133.91321	288.93852	1.38183	0.0767024	2.6900857413821
(497193)	18.5	344.74830	144.38863	230.98971	3.94025	0.1357048	2.2113130413821
(497194)	17.9	305.27137	39.92545	29.02699	3.91176	0.2161652	2.6963948413821
(497195)	17.7	310.54221	108.06842	335.38287	3.22470	0.2334942	2.6549111413821
(497196)	18.1	272.14159	192.48352	242.23250	2.28959	0.1258919	2.2267419413822
(497197)	17.4	327.95890	30.91347	318.65916	1.67591	0.0841888	2.7404552413822
(497198)	17.2	343.35495	23.77220	5.26001	5.37039	0.1946242	2.6583079413822
(497199)	17.4	2.04676	160.18011	203.35020	6.21651	0.1150183	2.6553775413822
(497200)	17.2	333.52177	180.34100	203.47766	5.07880	0.1666708	2.6866185413823
(497201)	17.6	13.74637	103.42400	221.38496	0.98463	0.2459183	2.6834500413823
(497202)	17.2	289.78431	83.88931	31.76399	6.45847	0.2149303	2.6730696413823
(497203)	17.4	350.50531	321.37704	40.14381	11.92794	0.1859944	2.7029950413823
(497204)	18.1	346.48689	221.02646	158.18144	2.45840	0.2153577	2.6841822413823
(497205)	18.0	15.34119	239.39226	93.92555	8.12860	0.2552615	2.1956772413824
(497206)	16.7	322.62859	22.02886	16.15309	11.98155	0.1922071	2.6926590413824
(497207)	17.8	322.17276	302.34176	94.50032	5.21212	0.3681080	2.6953542413824
(497208)	17.0	308.16151	189.78880	262.49462	7.15137	0.2476414	2.6748739413824
(497209)	17.0	334.71755	348.00133	46.18753	6.77177	0.1080588	2.6960317413825
(497210)	17.5	324.88554	153.61789	223.71506	2.71543	0.3133004	2.7189885413825
(497211)	17.0	0.34216	289.23643	64.13240	7.01640	0.1580460	2.7064983413825
(497212)	17.5	332.62262	288.45732	70.37763	4.36218	0.1005623	2.7566336413825
(497213)	17.5	295.98507	155.16438	262.70371	2.00024	0.2411549	2.7296289413826
(497214)	16.7	310.76746	5.13122	66.92794	9.83540	0.2707356	2.6989870413826
(497215)	17.1	348.79254	63.20078	321.30742	3.76527	0.2566125	2.6593824413826
(497216)	16.7	317.72542	1.05252	67.01164	14.79121	0.2341499	2.6891716413827
(497217)	18.3	297.50510	148.46927	291.80736	6.94047	0.1593533	2.2415064413827
(497218)	17.8	268.50474	153.49482	271.17295	18.28613	0.0880440	1.9366928413827
(497219)	16.9	287.68117	2.04992	62.84493	10.76713	0.3083202	2.7473560413827
(497220)	16.6	296.97597	180.69080	264.89294	14.69695	0.1869332	2.7005692413828
(497221)	16.7	339.05810	133.76215	285.59627	12.11083	0.2466522	2.6714651413828

(497222)	17.3	332.78404	69.94769	320.02905	4.64296	0.1503088	2.7282235413828
(497223)	17.1	312.32525	135.64179	287.41907	11.88620	0.1422451	2.7617094413829
(497224)	17.8	231.42930	184.75840	293.82554	23.55857	0.1937722	2.2893589413829
(497225)	17.1	298.08498	22.14581	113.28399	10.43082	0.2616483	2.6987397413829
(497226)	16.5	317.25169	123.00414	306.17726	13.92766	0.3061124	2.7211905413829
(497227)	17.6	123.34910	75.75127	125.73865	24.08360	0.0532417	1.9730876413830
(497228)	18.5	279.97539	118.91335	309.71106	7.80623	0.1032785	2.2855509413830
(497229)	17.6	307.62325	305.89248	136.28050	4.17346	0.1747011	2.7430548413830
(497230)	18.0	62.50900	122.19347	93.61373	8.80743	0.4642902	2.4414323413831
(497231)	17.7	174.61087	204.96797	358.01599	3.93449	0.1062968	2.2939677413831
(497232)	20.7	73.67515	269.46898	350.75131	18.59279	0.1663913	1.2068635413831
(497233)	17.9	229.23843	105.59197	348.53974	6.38696	0.0753742	2.3519021413832
(497234)	17.8	114.52798	237.05200	311.85445	1.77836	0.1294988	2.3756811413832
(497235)	17.8	178.78699	163.41934	351.52918	7.79606	0.2301837	2.3455977413832
(497236)	19.1	40.85539	286.04982	327.82240	7.15676	0.5394864	2.4707496413833
(497237)	18.1	155.51615	191.51652	3.38761	3.14187	0.1693659	2.3363645413833
(497238)	18.0	250.83394	315.26148	162.05546	7.11662	0.0437475	2.3086774413833
(497239)	17.9	183.27455	172.40291	5.50195	7.44572	0.0461950	2.3310889413834
(497240)	16.6	142.68059	357.20588	187.90396	15.63793	0.1737620	2.9951283413834
(497241)	17.9	78.37761	58.08624	195.10606	6.09391	0.0823764	2.3872647413834
(497242)	16.4	44.22643	262.19055	5.90334	11.13277	0.2054980	3.0803586413834
(497243)	16.4	166.72814	241.41783	265.78136	9.75901	0.1906406	2.9677342413835
(497244)	18.4	120.90489	247.89220	330.75061	17.63081	0.0720566	1.9722176413835
(497245)	17.4	314.91506	317.91556	144.11666	34.86237	0.6567422	2.6959095413835
(497246)	16.5	72.21799	89.27498	196.38460	10.44215	0.0804106	2.9849111413836
(497247)	18.1	40.90087	259.59104	15.62708	1.19112	0.1936010	2.4191108413836
(497248)	18.4	128.41023	322.58869	219.81716	1.71237	0.1535933	2.3978059413836
(497249)	16.5	103.65837	207.75120	29.62696	14.75272	0.1720880	3.0327632413837
(497250)	18.2	14.13531	149.29647	155.21896	2.86830	0.1831336	2.4409861413837
(497251)	16.1	28.78202	239.31742	64.79465	15.48143	0.0529198	3.0670490413837
(497252)	17.4	162.29185	165.64947	43.57673	9.79358	0.1739767	2.3458828413837
(497253)	15.9	75.16053	65.11674	148.60277	26.93374	0.2075129	3.1683628413837
(497254)	16.8	327.15444	182.92660	205.28367	9.17407	0.0710138	2.9878050413838
(497255)	18.0	167.07350	357.93934	169.65895	1.30441	0.0765188	2.3855437413838
(497256)	16.8	107.66937	79.98324	107.18738	3.56944	0.1913905	3.0863383413838
(497257)	16.1	33.61974	101.28337	212.39530	21.51812	0.4910513	3.1572939413839
(497258)	17.2	177.73933	142.60690	34.45682	1.48304	0.1195431	2.9646313413839
(497259)	17.3	73.08692	211.17365	23.42706	2.17411	0.3295463	3.1031705413839
(497260)	16.3	70.83474	134.79854	99.96616	18.12406	0.2113410	3.1669121413840
(497261)	16.3	242.74911	53.12975	42.42834	9.25824	0.0485929	3.0254531413840
(497262)	16.3	199.35580	58.34206	95.00096	11.01764	0.0695787	3.0261102413840
(497263)	16.4	56.56738	178.23670	71.20391	11.47366	0.0866085	3.1533183413841
(497264)	18.1	193.88726	46.44852	115.41190	2.24886	0.1258762	2.3635337413841
(497265)	16.8	22.94897	71.82857	223.15790	20.90388	0.3444336	3.2079023413841
(497266)	18.0	8.27733	277.32833	43.21468	1.38009	0.1918496	2.4444822413841
(497267)	18.2	46.84417	49.64314	237.62096	3.94923	0.1825091	2.4409266413841
(497268)	16.6	78.31316	41.84750	227.09940	15.77931	0.1505672	3.0523400413842
(497269)	16.9	23.53897	118.19839	181.03024	8.84297	0.2196492	2.4579448413842
(497270)	15.7	17.72491	52.02825	300.37272	20.55305	0.1901989	3.1685990413842
(497271)	16.3	14.49661	36.53119	299.36327	17.98372	0.1678625	3.2200209413843
(497272)	17.3	356.47823	260.60382	118.06694	8.62782	0.2630816	2.4646991413843
(497273)	18.1	354.92336	240.50289	125.68591	3.34572	0.2646858	2.4845377413843
(497274)	16.6	25.71692	77.87791	268.83453	7.37837	0.2363431	3.1639267413843
(497275)	16.2	336.37536	80.76456	289.91357	11.33107	0.1233707	3.2128711413844
(497276)	15.8	11.30200	56.92382	305.49623	13.05557	0.1066380	3.2046555413844
(497277)	17.6	331.55173	174.79798	167.89250	7.08264	0.3241496	2.5671408413844
(497278)	17.5	2.62178	158.44455	155.17198	8.07547	0.2082202	2.5530370413845
(497279)	17.5	303.25711	197.03658	154.62575	2.18855	0.1843131	2.6000172413845
(497280)	17.8	70.36973	161.17575	158.92323	8.54740	0.1364390	2.4418417413845
(497281)	18.5	356.44905	286.32817	62.49667	0.26574	0.1832552	2.5187407413845
(497282)	17.3	319.66954	4.23766	33.92059	8.15413	0.2280129	2.5244905413845
(497283)	16.6	33.75399	150.25089	192.16676	4.40109	0.1636007	3.1999351413846
(497284)	17.9	295.26216	93.74597	318.53276	4.17450	0.3091038	2.5749687413846
(497285)	17.2	275.04387	41.43961	21.01279	11.52499	0.1722777	2.5915800413846
(497286)	17.8	332.16267	20.44962	354.38577	5.90602	0.2378753	2.5565898413846
(497287)	18.4	323.85898	194.54837	187.32011	4.76559	0.2879299	2.5621240413847
(497288)	18.6	333.61703	339.26877	57.68154	0.26116	0.2329164	2.5286799413847
(497289)	18.7	309.77661	222.73903	174.23493	1.69189	0.2608821	2.5625742413847
(497290)	17.7	23.98898	288.04853	11.00206	11.59616	0.3101949	2.5384981413848
(497291)	17.7	286.00181	2.28350	69.29493	1.62766	0.1215775	2.5513988413848
(497292)	18.0	14.51018	121.85125	211.64633	5.51176	0.2111975	2.5337172413848
(497293)	17.8	13.06908	67.47327	255.36834	4.50121	0.2480733	2.5407877413848
(497294)	18.0	10.93005	139.01724	195.75776	2.51916	0.2487704	2.5296059413849
(497295)	18.0	348.84339	11.48814	1.40878	8.65395	0.2588537	2.5319628413849
(497296)	18.0	351.64393	350.08008	359.36988	7.37976	0.2227643	2.5484652413849
(497297)	18.1	17.55039	108.70223	202.22049	3.32728	0.2932926	2.5368821413850
(497298)	17.8	7.79013	320.69742	22.00683	4.52856	0.2180973	2.5410376413850
(497299)	18.0	348.17840	170.51911	205.21093	3.62030	0.1793889	2.5418167413850
(497300)	18.5	310.36610	230.03718	171.95021	3.93264	0.3064680	2.5547476413851
(497301)	15.5	26.63307	97.35605	254.45581	16.58568	0.1622951	3.2123633413851
(497302)	18.7	328.92368	191.11077	201.71289	9.81943	0.2324239	2.5452444413851
(497303)	17.9	278.42236	229.91946	182.34921	4.69114	0.1441148	2.6002253413852
(497304)	19.1	344.70388	51.24230	298.87283	2.90180	0.2959527	2.5501554413852
(497305)	17.9	13.43653	95.87113	201.47238	8.90572	0.2019629	2.5767415413852
(497306)	17.2	195.14020	358.71081	153.44730	13.96274	0.2000189	2.6157833413852
(497307)	17.7	15.38777	210.89321	166.25272	7.53179	0.0986580	2.4782339413852
(497308)	18.2	351.91667	292.31595	34.94677	2.98010	0.0964761	2.5923938413853
(497309)	19.2	38.07705	87.99607	210.03719	3.65694	0.1576642	2.0990994413853
(497310)	18.0	323.61537	337.09015	30.55062	4.86645	0.2351119	2.5809335413853
(497311)	19.1	355.90666	307.92924	35.65749	5.60551	0.2989441	2.5472131413853
(497312)	18.4	353.51373	344.98161	348.03781	2.24177	0.2205113	2.5634242413854
(497313)	18.9	3.49986	143.34236	189.05987	2.61912	0.2440027	2.5402994413854
(497314)	18.3	347.56728	81.99472	263.93901	1.66746	0.1661760	2.5747573413854
(497315)	18.2	297.63473	86.05869	335.86222	2.49705	0.1818611	2.5550435413855
(497316)	17.7	358.42105	125.07384	213.82046	12.77828	0.1885604	2.5591137413855
(497317)	18.0	297.00882	65.19248	345.04662	5.24167	0.2986852	2.5787576413855
(497318)	17.7	280.47285	229.39190	207.86768	6.61219	0.1831488	2.5605044413855
(497319)	18.6	350.47669	10.77176	359.51669	4.14616	0.1850048	2.5259619413856
(497320)	18.3	333.70864	120.64622	233.48893	2.15840	0.1709198	2.5699535413856
(497321)	17.6	28.59106	298.80340	18.39470	13.45381	0.0710196	2.5489138413856
(497322)	17.9	318.76037	10.63602	18.05359	8.41624	0.1623519	2.5584278413856
(497323)	18.6	315.97315	8.83394	24.88563	1.67539	0.1994722	2.5648722413856
(497324)	18.2	328.91471	174.84154	198.31194	4.52180	0.1777871	2.5710232413857
(497325)	18.3	336.43538	224.91696	159.46710	5.61045	0.1776329	2.5406442413857

(497326)	18.2	9.03252	210.51826	136.86793	3.56127	0.1009381	2.5352703413857
(497327)	18.1	4.48158	349.14925	0.98817	7.51894	0.1332995	2.5341208413857
(497328)	18.2	302.40177	187.06036	233.76962	2.34673	0.1689921	2.5521801413858
(497329)	18.1	273.79521	82.41846	11.71660	3.75127	0.2111829	2.5711919413858
(497330)	17.6	274.07102	223.10545	215.64101	8.09628	0.1404448	2.5783261413858
(497331)	16.5	263.87360	95.49098	321.93789	21.85038	0.0204573	2.5962449413858
(497332)	18.2	344.69781	221.11687	133.41494	1.99110	0.2323883	2.5595188413859
(497333)	18.2	23.70335	118.23180	219.34306	6.50860	0.2275106	2.5225846413859
(497334)	17.9	355.52955	36.59926	322.67219	3.81923	0.2280769	2.5485374413859
(497335)	18.1	285.71485	356.05952	95.34689	4.63593	0.1501115	2.5595156413859
(497336)	18.0	299.10778	44.81130	48.03156	6.12127	0.2094201	2.5361654413860
(497337)	17.8	16.00914	5.95333	297.89944	1.73566	0.2819201	2.5735227413860
(497338)	18.6	339.77343	181.91725	174.26613	2.90650	0.2389676	2.5755196413860
(497339)	18.2	313.77313	74.55368	345.56830	4.71043	0.3147690	2.5492624413860
(497340)	17.8	319.34924	223.04449	189.15074	5.15943	0.3153262	2.5590288413861
(497341)	18.0	16.96863	283.74379	47.19181	5.03297	0.2058143	2.5470188413861
(497342)	17.2	277.01246	235.63280	214.24100	21.57495	0.1212956	2.5739949413861
(497343)	17.3	258.77978	318.84338	110.63465	3.42518	0.1953490	2.6365428413862
(497344)	17.6	359.93688	130.28957	204.39842	6.26210	0.1771995	2.5895615413862
(497345)	18.1	5.55990	105.75507	227.94373	2.33183	0.1940102	2.5641638413862
(497346)	18.0	3.32424	114.56450	243.99475	3.67248	0.2575509	2.5340398413863
(497347)	18.9	335.64405	47.43913	318.78466	3.01732	0.2817731	2.5630947413863
(497348)	17.5	140.74656	187.02688	33.95402	14.51029	0.0249407	2.5557116413863
(497349)	17.5	16.89327	330.05553	9.85516	2.87066	0.1841225	2.5450361413864
(497350)	18.1	322.23764	163.07056	242.32374	3.20265	0.1600332	2.5592665413864
(497351)	18.1	345.34335	334.59414	30.63810	6.04989	0.2337081	2.5623565413864
(497352)	15.9	105.18945	289.46427	227.28772	24.04554	0.1227226	2.7919993413864
(497353)	17.8	275.90534	180.11608	252.82957	3.38993	0.1333609	2.5893609413865
(497354)	17.9	342.88573	315.23934	54.59209	10.50980	0.2188424	2.5688912413865
(497355)	18.3	327.81928	176.18395	214.21738	2.53766	0.2127829	2.5689640413865
(497356)	17.8	330.36018	146.78021	238.01435	7.94139	0.1697039	2.5749086413865
(497357)	18.2	338.34921	329.55931	50.31331	7.43211	0.1708752	2.5604078413866
(497358)	17.8	4.66190	50.95781	287.70540	2.33988	0.2507833	2.5496888413866
(497359)	17.6	38.36779	349.38524	345.26358	3.09284	0.0770510	2.5254923413866
(497360)	17.8	358.46949	324.51822	7.56919	5.08390	0.2425021	2.5676180413867
(497361)	18.3	341.98450	270.26400	93.98061	4.09746	0.1951705	2.5737561413867
(497362)	18.1	343.96367	200.35270	173.81861	1.64785	0.1687918	2.5574793413867
(497363)	18.2	352.49857	295.86355	82.28801	1.85408	0.2001196	2.5318340413868
(497364)	17.6	303.62778	213.03882	217.42215	12.23119	0.2499869	2.5644815413868
(497365)	18.1	281.30779	212.73063	216.40874	5.29657	0.2414286	2.6112186413868
(497366)	18.1	320.83594	174.35134	231.32414	3.03020	0.2005789	2.5543885413868
(497367)	17.6	358.97921	292.32651	43.10546	9.40891	0.1808478	2.5758782413869
(497368)	17.5	345.53078	261.85572	85.53068	4.10638	0.0594073	2.5915959413869
(497369)	18.2	281.30081	162.69367	240.18046	2.44650	0.1082896	2.6349910413869
(497370)	18.2	267.74819	139.12259	287.63276	1.77410	0.1093861	2.6151370413869
(497371)	17.8	335.36954	1.09935	27.42661	5.55047	0.1606652	2.5518043413869
(497372)	18.2	301.81137	293.50004	110.79705	4.68107	0.0853651	2.5966906413870
(497373)	17.5	359.32902	272.22684	65.65723	13.99493	0.1949336	2.5936235413870
(497374)	18.1	272.24530	232.41832	211.63896	4.50443	0.2105932	2.5904833413870
(497375)	18.0	337.52346	164.15991	189.96889	5.02285	0.1701694	2.6001900413870
(497376)	18.2	320.85908	6.24472	41.57937	3.38220	0.1639560	2.5643365413871
(497377)	17.6	352.54368	178.39028	189.54364	4.43991	0.1598421	2.5484679413871
(497378)	18.7	338.04296	50.60965	305.84136	1.50031	0.2183888	2.5756125413871
(497379)	17.9	355.93480	93.21475	246.66918	2.73231	0.2436243	2.5730758413872
(497380)	18.6	352.52401	101.93235	241.84844	4.33344	0.2971552	2.5687645413872
(497381)	16.3	164.74912	134.66762	72.10049	10.74708	0.0164052	3.4193795413872
(497382)	17.9	22.93593	98.78544	213.97389	15.24222	0.2174396	2.5473234413873
(497383)	16.6	87.17310	251.72846	116.06860	2.30692	0.2065987	3.0841050413873
(497384)	17.7	276.17158	190.92407	268.21920	3.58566	0.2354747	2.5875034413873
(497385)	17.5	6.89921	18.05094	317.74416	1.76484	0.1801955	2.5870596413873
(497386)	18.1	289.57866	149.41209	263.92874	4.00949	0.1706747	2.6146461413874
(497387)	17.9	5.72101	149.54052	184.69651	0.71925	0.0561771	2.5837714413874
(497388)	18.2	319.29344	238.98066	165.03060	4.95833	0.2835000	2.5603288413874
(497389)	17.9	334.96378	256.31373	134.16245	2.33307	0.2552234	2.5578944413874
(497390)	18.2	307.50763	295.33086	99.18096	2.71299	0.1925634	2.5893515413875
(497391)	17.0	341.03598	278.23838	62.33767	13.60636	0.2041015	2.6223770413875
(497392)	18.2	269.50371	273.41240	197.82360	7.94264	0.1224086	2.5655333413875
(497393)	17.6	341.99077	268.49676	87.91598	7.36213	0.2447472	2.5900281413875
(497394)	17.5	319.27981	76.16735	316.01870	5.58412	0.3375356	2.5707301413876
(497395)	17.7	338.89522	337.96433	46.48539	4.67795	0.0814842	2.5585161413876
(497396)	17.3	356.51812	301.43445	50.28437	13.55688	0.3044479	2.5590923413876
(497397)	18.2	320.43470	153.51683	240.54813	3.39584	0.2038506	2.5778940413877
(497398)	17.1	325.42489	282.81461	103.45609	23.52241	0.3237739	2.5719388413877
(497399)	17.0	340.43406	118.16029	273.85555	12.15676	0.1810615	2.5835882413877
(497400)	18.4	4.01197	159.95348	166.06145	5.85003	0.2205080	2.5557097413878
(497401)	17.2	203.65862	53.58756	78.97895	9.42944	0.1914060	2.6722207413878
(497402)	16.0	7.72894	75.82799	283.08432	28.31646	0.3038876	2.5882546413878
(497403)	16.5	262.73181	201.59799	245.86041	21.13852	0.0568187	2.6010151413879
(497404)	17.3	324.20236	150.62254	243.68641	14.18443	0.1062230	2.5855040413879
(497405)	16.7	170.01099	286.86634	239.36104	7.80024	0.2041742	2.6788490413879
(497406)	17.6	330.32426	353.77472	60.52751	6.76408	0.2291813	2.5534076413879
(497407)	17.1	303.66853	155.12675	256.51185	12.88732	0.1639126	2.5939497413880
(497408)	17.6	358.53541	288.57370	100.13153	2.77917	0.1608314	2.5406801413880
(497409)	17.8	249.05074	66.04305	56.90899	4.44935	0.1187343	2.5953654413880
(497410)	18.1	322.55766	144.30607	254.94250	7.86376	0.1641175	2.5846358413880
(497411)	17.7	24.20740	224.92363	77.50168	3.03716	0.1976781	2.6118531413881
(497412)	18.0	327.05263	132.14426	247.05432	4.74215	0.2472207	2.5832883413881
(497413)	17.8	326.69625	101.86070	281.90506	1.28164	0.2571593	2.5942783413881
(497414)	17.4	300.31891	181.21713	253.84590	13.78667	0.1744983	2.5775804413882
(497415)	16.8	237.03181	203.57051	260.38990	11.64002	0.2463964	2.6448385413882
(497416)	17.0	333.23985	250.66178	153.87267	8.20990	0.1868853	2.5474869413882
(497417)	17.6	356.70951	91.27553	272.22631	7.39280	0.1836601	2.5708629413882
(497418)	17.6	357.84707	261.82961	67.18977	6.19955	0.2668212	2.6097341413883
(497419)	18.1	322.48414	303.84914	59.70469	4.42854	0.2075643	2.6073128413883
(497420)	18.5	319.88159	345.38445	85.27289	3.30891	0.2874887	2.5668620413883
(497421)	17.6	288.89902	44.93233	31.87470	4.77416	0.1929579	2.5971380413883
(497422)	17.4	325.88621	304.07994	77.87708	13.89691	0.2891536	2.5866318413884
(497423)	17.7	351.74447	14.22838	345.01916	2.51356	0.1120855	2.5776750413884
(497424)	17.5	345.99966	313.17160	62.15777	5.41505	0.2270790	2.5921941413884
(497425)	18.0	303.77511	192.48216	236.65624	12.06963	0.1997386	2.5711462413885
(497426)	18.1	344.40656	62.15769	318.05350	2.82034	0.2435356	2.5600349413885
(497427)	18.3	22.62780	262.55850	149.41854	0.84334	0.1721470	2.4622629413885
(497428)	16.1	257.40239	88.49075	257.22539	23.12353	0.2934584	2.7487099413885
(497429)	17.9	311.99410	14.07238	50.74510	6.94567	0.2476598	2.5652514413886

(497430)	18.6	337.36935	66.55239	303.29607	3.81103	0.3145168	2.5784472413886
(497431)	17.9	299.04313	18.33912	64.46661	7.53231	0.2116097	2.5851744413886
(497432)	16.6	350.54521	72.91942	290.38310	12.18126	0.1957166	2.6079287413886
(497433)	17.9	320.46689	323.46086	75.31990	7.06130	0.1381581	2.5973242413887
(497434)	17.6	359.47253	330.16794	47.33735	3.04412	0.1746216	2.5547549413887
(497435)	17.5	242.61245	50.05375	61.24202	4.36873	0.1320280	2.6285386413887
(497436)	17.4	331.84000	138.51587	258.94713	12.63700	0.1690656	2.5654203413888
(497437)	17.2	284.97222	310.79603	87.61992	5.14709	0.0736664	2.6857937413888
(497438)	18.1	322.54070	304.79153	107.42994	5.86853	0.2819246	2.5992149413888
(497439)	17.1	310.19996	150.85236	282.87122	12.57162	0.2260425	2.5921208413888
(497440)	16.6	236.60651	176.34740	289.83824	11.67182	0.1080853	2.6939719413889
(497441)	17.4	270.59038	121.26637	291.86579	8.12296	0.1174481	2.7120498413889
(497442)	16.7	337.94202	296.68437	113.32866	8.77633	0.1854884	2.5845335413889
(497443)	18.1	36.39744	221.53667	299.95588	1.54088	0.1381953	2.3376884413889
(497444)	17.6	310.19793	120.87272	289.86045	2.73714	0.0992614	2.6327949413890
(497445)	17.5	336.37197	306.68935	102.62571	5.38740	0.1378250	2.5848417413890
(497446)	17.6	307.48014	96.01184	297.16338	5.53213	0.2154510	2.6471653413890
(497447)	16.9	272.15594	281.60809	104.28916	14.03480	0.2153316	2.7261274413890
(497448)	18.6	301.01614	124.45842	289.54438	5.10705	0.1717862	2.1398589413891
(497449)	17.9	337.79524	105.27839	281.86545	3.39036	0.3038028	2.5849739413891
(497450)	16.7	195.63693	352.66402	122.12340	7.15328	0.0141651	2.7669003413891
(497451)	16.3	112.70849	289.55708	305.07101	13.83173	0.0372794	2.7056372413892
(497452)	16.8	214.27343	222.00196	281.93043	12.44156	0.1180805	2.6803694413892
(497453)	17.3	269.44279	294.51113	113.00809	8.20876	0.1075761	2.7200083413892
(497454)	18.7	310.95491	153.59824	281.10709	5.85272	0.3122478	2.5840069413892
(497455)	18.0	241.76339	32.94484	86.93998	5.18003	0.1182871	2.6583714413893
(497456)	16.5	355.13327	91.87082	286.84098	13.29201	0.1451890	2.5933076413893
(497457)	17.8	309.81845	343.95147	78.25177	5.68844	0.2157120	2.5716368413893
(497458)	17.2	352.23946	243.17967	105.63888	7.53284	0.0868369	2.6757470413893
(497459)	17.2	201.61642	185.81368	284.42417	10.49347	0.0789673	2.7481026413894
(497460)	18.4	237.13674	343.19473	127.00298	4.82947	0.0770441	2.1712699413894
(497461)	17.0	22.11620	280.92635	84.82457	7.60339	0.1778719	2.5642003413894
(497462)	16.4	357.28982	215.12407	96.64415	15.67270	0.0800633	2.7364192413894
(497463)	16.6	11.75788	71.84684	276.34995	10.69079	0.0904126	2.6189870413895
(497464)	18.4	297.57619	114.48630	274.34926	5.49861	0.1477797	2.1680091413895
(497465)	16.9	205.10712	211.45942	301.31007	12.40119	0.1896612	2.6834737413895
(497466)	16.7	255.06176	280.96499	99.29468	14.57733	0.0623459	2.8020329413895
(497467)	17.8	305.04890	311.26029	90.48491	6.18748	0.2933811	2.6185334413896
(497468)	17.3	270.79136	106.81081	323.89161	2.70022	0.0946997	2.6718320413896
(497469)	16.3	214.36292	166.71701	304.78334	12.74578	0.0917167	2.7369229413896
(497470)	16.5	140.11923	239.22721	301.39451	10.45596	0.0714893	2.7395187413896
(497471)	16.8	330.64736	249.53334	310.13354	7.87618	0.0110977	3.0679148413897
(497472)	17.3	29.95022	228.11110	90.86534	6.82732	0.0096723	2.6420437413897
(497473)	18.0	321.43267	185.77856	226.43298	3.40905	0.2090833	2.5963558413897
(497474)	17.3	327.20909	353.67840	51.43208	7.70769	0.2762005	2.5850276413897
(497475)	15.8	194.91893	182.63823	310.27929	24.92155	0.0944828	2.7479832413898
(497476)	17.1	328.31945	347.88245	45.19491	5.75866	0.2954020	2.5886520413898
(497477)	17.1	355.44797	84.64998	294.72557	1.96885	0.1357945	2.5936344413899
(497478)	17.3	237.22180	170.53214	267.11126	4.70854	0.0424666	2.7436409413899
(497479)	17.6	263.43144	330.40453	144.06624	4.73675	0.1558971	2.6350406413900
(497480)	18.0	323.73614	296.13094	92.62579	6.78384	0.3014503	2.6101690413900
(497481)	17.0	349.58145	240.49990	159.38509	5.43428	0.2730983	2.5695177413900
(497482)	17.1	196.38697	60.24919	127.44065	9.12273	0.0373357	2.6355047413900
(497483)	17.3	337.06595	128.41390	255.56368	4.54917	0.3626856	2.5939957413901
(497484)	16.6	9.87233	243.58926	121.58464	5.25480	0.3178383	2.5660242413901
(497485)	17.1	87.33247	174.17057	110.52739	6.14664	0.1285068	2.6586707413901
(497486)	16.8	258.19568	315.33914	136.58553	14.92922	0.1832496	2.6717440413901
(497487)	17.9	270.00225	168.18202	300.07325	2.34827	0.1608962	2.6380180413902
(497488)	16.7	239.86948	141.06174	304.89872	12.59924	0.1488919	2.7270914413902
(497489)	17.0	250.20265	329.57048	121.10218	14.82592	0.2323853	2.6540435413902
(497490)	17.4	255.85745	8.40937	106.19721	4.39508	0.1693387	2.6460951413903
(497491)	16.7	318.76376	97.00388	272.73515	12.68586	0.0923371	2.6513867413903
(497492)	17.5	38.46577	43.34563	129.31561	8.36087	0.1467755	2.3706017413903
(497493)	17.8	296.32401	137.96003	270.62402	5.69861	0.2115654	2.6535009413904
(497494)	17.7	348.68587	84.98892	298.96936	3.56430	0.2871567	2.5778046413904
(497495)	16.4	100.22735	302.68242	295.11747	15.17635	0.1946149	2.7484147413904
(497496)	16.9	296.88900	282.71394	132.55366	8.77759	0.2181276	2.6505225413904
(497497)	16.9	15.75908	50.07393	288.82551	11.71344	0.1349967	2.6625716413905
(497498)	17.1	235.89366	173.43346	311.85026	11.65571	0.2307753	2.6738730413905
(497499)	16.8	175.04079	255.71485	261.01452	6.51483	0.0889897	2.6568569413905
(497500)	16.1	346.35548	69.21877	264.33679	28.57218	0.3347867	2.6074483413906
(497501)	16.6	325.78903	269.41920	127.75797	29.49560	0.3350529	2.6111335413906
(497502)	17.0	43.00266	224.50569	129.04846	3.83847	0.0919028	2.6061522413906
(497503)	16.8	328.66967	77.88323	335.27533	26.78093	0.4366632	2.5959747413906
(497504)	17.0	323.88090	89.70088	329.11700	26.82186	0.4075045	2.5945065413907
(497505)	17.0	302.74198	129.02068	307.31656	12.29725	0.2283002	2.6122860413907
(497506)	17.2	281.75245	295.44115	158.08191	13.12504	0.2296488	2.6718963413907
(497507)	17.7	282.30321	42.63941	46.59778	2.00642	0.0448374	2.6518347413908
(497508)	16.9	258.32928	107.06114	343.97472	2.06157	0.1587170	2.6768047413908
(497509)	17.4	241.83883	357.24331	111.53928	6.18857	0.1281412	2.6957255413908
(497510)	17.1	350.18973	336.54684	39.39441	3.49750	0.1191459	2.6615345413908
(497511)	16.8	327.50387	74.41007	338.00294	7.21361	0.0332800	2.6485985413909
(497512)	17.4	243.08685	330.26499	107.35027	6.05572	0.1412099	2.7422066413909
(497513)	17.1	273.08906	40.76507	41.46254	2.23779	0.0519124	2.6904005413909
(497514)	17.7	281.35404	313.56642	113.20176	4.55969	0.1297821	2.6842122413910
(497515)	17.0	295.80872	2.96143	83.47815	11.24390	0.2251844	2.6197098413910
(497516)	18.4	143.14007	37.71103	150.86478	5.54148	0.0720412	2.2155844413910
(497517)	17.7	189.34312	196.74969	336.01228	4.55198	0.0472452	2.6853898413910
(497518)	16.8	103.35730	69.06694	153.29919	16.03228	0.1296511	2.8170349413911
(497519)	16.8	257.19901	327.95743	150.22499	14.42988	0.2058597	2.6633225413911
(497520)	17.1	105.66515	50.03071	154.05512	1.02281	0.1672742	2.8561122413911
(497521)	18.8	272.66946	339.23057	117.12813	2.05939	0.1262694	2.1630889413912
(497522)	16.8	245.51325	118.36419	328.02324	11.94430	0.1389860	2.7565986413912
(497523)	17.4	329.99680	252.20039	164.28047	4.19921	0.2017812	2.6175551413912
(497524)	16.7	159.61537	262.42590	270.17308	8.56264	0.2376483	2.7758914413912
(497525)	18.5	267.90155	114.46730	318.72032	4.71786	0.1222578	2.1798359413913
(497526)	17.1	269.24057	334.45390	136.45421	3.96108	0.0691535	2.6723077413913
(497527)	16.6	217.76755	165.42182	329.67438	14.43369	0.1981686	2.7315959413913
(497528)	18.0	296.37520	81.96195	308.67320	8.29434	0.0771904	2.2072416413913
(497529)	18.6	324.69421	297.62791	118.96978	3.65319	0.0950640	2.1406702413914
(497530)	17.1	253.38669	328.76693	149.18268	11.84235	0.0374779	2.7053617413914
(497531)	16.6	230.35718	151.81901	307.21480	8.25430	0.1146234	2.7452096413914
(497532)	16.7	63.16968	208.03877	87.50636	2.45355	0.0284930	2.6920292413915
(497533)	16.8	271.17784	318.82640	78.98786	5.98835	0.0698186	2.7833351413915

(497534)	18.5	156.32952	196.38635	9.11097	2.81910	0.0715073	2.1760684413915
(497535)	18.5	165.16857	38.75907	134.93737	22.04116	0.0680475	1.8664153413915
(497536)	17.4	268.28116	1.73930	91.47588	3.94515	0.0355292	2.6918452413915
(497537)	17.8	273.70050	308.33513	142.89683	5.86681	0.1791962	2.6368588413916
(497538)	18.0	298.26080	119.02469	314.16332	4.41392	0.2180128	2.6366937413916
(497539)	17.1	273.51618	265.49113	131.02377	6.06284	0.0337844	2.7767014413916
(497540)	16.4	187.90651	172.14406	345.37039	6.47982	0.1226193	2.7426051413916
(497541)	18.2	153.13138	176.40322	341.39190	5.95261	0.1021344	2.2406565413917
(497542)	16.9	331.53456	56.39225	339.86152	27.07946	0.1824217	2.6747970413917
(497543)	16.5	293.66436	118.88882	315.91950	21.46439	0.0468648	2.6674807413917
(497544)	17.0	308.89774	255.28938	169.84895	11.91461	0.1789057	2.6673545413918
(497545)	16.8	168.31860	214.51640	332.52996	9.16111	0.0639433	2.7201202413918
(497546)	17.7	22.20314	306.66161	179.05197	1.08004	0.1403365	2.4505308413918
(497547)	18.2	188.99620	358.08059	162.45125	22.60185	0.0680371	1.8704291413919
(497548)	17.9	62.91612	174.37324	51.92560	1.75676	0.1835433	2.3056150413919
(497549)	17.2	257.74124	323.87782	166.55557	7.23265	0.3089791	2.6559673413919
(497550)	17.3	244.77852	327.80086	166.27091	5.64189	0.1639676	2.6976934413919
(497551)	17.4	301.21925	304.25962	148.64962	11.29804	0.1717157	2.5976832413920
(497552)	17.2	123.23555	234.34261	334.71558	13.28067	0.0258772	2.7842094413920
(497553)	16.8	68.12675	291.10437	355.32492	5.06146	0.0111284	2.7639888413920
(497554)	16.4	312.67782	78.09491	346.70847	11.88444	0.1158622	2.6927939413920
(497555)	18.9	264.69948	312.46146	147.74631	3.05035	0.0621831	2.1834035413921
(497556)	17.1	89.05338	124.64851	159.35978	5.44172	0.0227658	2.7269737413921
(497557)	17.9	27.49555	298.49453	359.30490	10.42047	0.1778818	2.2635463413921
(497558)	17.5	242.60036	147.96815	317.92637	6.60332	0.0704277	2.7286775413921
(497559)	16.6	103.77860	233.71609	11.87339	7.56080	0.1727905	2.7971632413922
(497560)	17.4	212.21604	108.24070	33.72245	5.04012	0.0842257	2.7471141413922
(497561)	17.0	20.81724	185.15931	144.24891	6.79853	0.0289812	2.7637249413922
(497562)	18.3	65.55500	149.34843	120.48678	3.69721	0.1566115	2.2457177413922
(497563)	17.3	274.20152	295.20937	155.30582	5.29078	0.0804088	2.7095120413923
(497564)	16.7	1.08417	3.51611	351.81413	13.89829	0.1072642	2.7496247413923
(497565)	17.2	105.29935	58.28275	197.60269	3.63600	0.0525707	2.7640084413923
(497566)	17.3	209.98939	205.38343	274.66840	3.14571	0.1582288	2.7921055413923
(497567)	16.9	353.43405	164.73749	184.90212	4.20653	0.0830470	2.7678086413924
(497568)	16.7	132.07778	108.08452	137.80335	5.48229	0.0471528	2.7299935413924
(497569)	18.4	248.00089	227.23980	161.64329	22.74348	0.1050178	1.9184742413924
(497570)	17.4	48.39369	276.24445	36.41278	2.78925	0.0346559	2.7449844413925
(497571)	17.1	223.17964	1.18043	136.02626	3.78611	0.1269820	2.7278514413925
(497572)	17.2	232.46753	136.98493	355.70101	9.29607	0.1670205	2.7235970413925
(497573)	17.3	311.16998	292.12729	154.85302	13.31579	0.2451008	2.6160439413925
(497574)	17.3	286.49984	123.81967	356.59764	14.13360	0.2451120	2.6347602413926
(497575)	17.2	164.65823	36.59649	156.65350	10.02629	0.0571917	2.7470242413926
(497576)	16.8	178.99536	172.73731	17.15680	9.60590	0.1501463	2.7373175413926
(497577)	18.3	109.21271	238.30179	345.77436	18.96859	0.0829275	1.8803548413926
(497578)	17.9	49.04037	129.20062	134.03557	8.90707	0.3848712	2.3195340413927
(497579)	18.3	107.88408	72.97945	111.23346	3.04039	0.1523068	2.2971569413927
(497580)	17.3	144.18311	55.80635	154.40803	4.17226	0.0301678	2.8179001413927
(497581)	17.3	73.38332	75.82907	148.60193	22.34426	0.2318211	2.3073458413927
(497582)	16.9	189.91930	343.03368	204.05019	13.38663	0.0623832	2.7386776413928
(497583)	16.3	47.39868	302.63521	21.27292	18.35908	0.1202592	2.7941873413928
(497584)	16.6	29.83871	147.19355	78.21521	4.81691	0.2423621	3.0967667413928
(497585)	18.4	53.41397	155.12472	112.50277	2.91805	0.2001922	2.3133582413928
(497586)	16.5	326.54661	63.10424	26.08779	28.96786	0.4108630	2.5926593413929
(497587)	16.1	100.18846	78.43188	55.97990	13.04006	0.0277964	3.1424264413929
(497588)	17.9	61.12654	153.12181	94.37807	5.95849	0.0584667	2.3150545413929
(497589)	17.1	179.24045	165.16487	34.53830	14.45236	0.0615782	2.7560929413929
(497590)	16.2	338.21087	229.73223	63.45134	18.22272	0.1918797	3.1169992413930
(497591)	17.2	48.32359	197.81062	81.75949	2.96519	0.1091221	2.9319229413930
(497592)	17.6	64.08063	145.27727	79.08146	2.39230	0.1853453	3.0124728413930
(497593)	17.0	56.59773	65.03457	217.76712	4.91183	0.0270099	2.8682362413930
(497594)	18.5	84.53184	171.41553	55.57785	3.05499	0.1485552	2.3110740413931
(497595)	16.2	95.90291	148.18187	120.15153	12.90293	0.1605858	2.8785231413931
(497596)	17.4	65.98545	223.49391	61.71880	3.27029	0.0902209	2.8847039413931
(497597)	18.5	39.68075	215.68204	79.51666	2.90201	0.1741322	2.3049720413931
(497598)	18.2	305.01660	203.63685	208.73972	21.90178	0.0502085	1.8728951413932
(497599)	17.2	55.20271	165.90369	99.78478	5.40758	0.2100918	2.9796414413932
(497600)	18.8	61.15998	127.73292	152.40375	3.43586	0.2115981	2.2956015413932
(497601)	18.5	223.31376	272.23949	209.96559	21.84925	0.0876847	1.8890404413932
(497602)	16.6	45.49327	156.10603	98.40948	15.20984	0.1002604	3.0233482413932
(497603)	18.0	4.94430	24.84426	258.39717	1.26988	0.2028128	2.3578698413933
(497604)	18.1	32.33324	178.23803	139.14204	7.74405	0.2368022	2.3046998413933
(497605)	16.6	22.75669	247.15015	87.82776	13.36570	0.1616114	2.8925087413933
(497606)	16.0	55.61184	92.99216	88.01323	26.65183	0.2204081	3.1232864413933
(497607)	16.4	327.99739	52.35368	0.89630	12.99831	0.3051396	3.1508844413934
(497608)	18.1	1.09875	23.35635	306.97070	3.68543	0.2097191	2.3693878413934
(497609)	17.5	56.54477	135.41345	134.29950	23.77258	0.0772592	1.9572265413934
(497610)	18.4	345.07998	178.53824	181.26147	4.59484	0.2964920	2.3749110413935
(497611)	16.9	350.14570	174.19139	188.80759	5.71095	0.2833234	3.0796816413935
(497612)	17.0	31.67855	187.75492	136.86845	2.24339	0.2870510	3.0384790413935
(497613)	16.5	348.09426	260.83899	100.79623	2.15222	0.2232680	3.1324279413935
(497614)	17.7	358.12467	351.58280	352.17402	5.97525	0.3494694	2.3836834413936
(497615)	17.9	330.51103	94.47599	263.54996	1.28510	0.1890630	2.4056186413936
(497616)	17.9	28.79633	239.01190	94.71644	5.49293	0.2912886	2.3384929413937
(497617)	18.0	20.85817	324.82508	359.18721	5.67683	0.2179523	2.3610902413937
(497618)	16.4	16.71059	335.19994	336.04287	15.53245	0.2928812	3.0826487413937
(497619)	13.6	327.40662	254.12042	172.26932	13.34243	0.6010193	5.1215145413937
(497620)	17.8	2.84614	193.11422	136.49112	6.41354	0.2025193	2.3825340413939
(497621)	18.1	3.06055	18.94445	319.61011	1.49308	0.2149833	2.3748050413939
(497622)	16.3	327.28674	208.93477	163.08738	11.73968	0.2503580	3.1573856413940
(497623)	18.2	26.38299	342.12129	341.40805	18.91567	0.0969941	1.9556245413940
(497624)	17.6	320.72629	63.45953	343.93726	13.63204	0.1083179	2.3554565413940
(497625)	17.9	19.12925	245.46668	71.90843	2.75647	0.1908814	2.3814354413940
(497626)	20.1	101.33345	56.20044	162.44365	24.48697	0.4727004	1.4821189413941
(497627)	17.2	23.82298	246.58110	73.47938	6.95815	0.1743458	2.3632075413941
(497628)	16.0	5.54532	13.52064	343.14586	13.71362	0.2127122	3.0810181413941
(497629)	17.9	307.95096	87.21319	308.33206	7.90290	0.2247595	2.3970397413942
(497630)	17.3	352.90049	140.83232	195.76935	5.22885	0.2418325	2.3914356413942
(497631)	16.2	340.87259	43.25951	312.80549	9.07548	0.2277768	3.1459384413942
(497632)	17.6	257.12331	95.58388	354.46287	6.45492	0.1540517	2.3947086413942
(497633)	16.3	356.69361	80.74782	270.48197	8.15052	0.2626071	3.1264872413943
(497634)	16.7	343.04932	181.08474	190.17524	4.72990	0.2493335	3.1359175413943
(497635)	16.2	345.73943	233.85307	113.96716	2.48307	0.1760214	3.1649037413943
(497636)	16.7	322.44192	274.06390	99.95155	2.28754	0.1876499	3.1794366413943
(497637)	16.9	24.63087	294.12257	36.71509	0.89549	0.1765400	3.0675590413944

(497638)	17.3	358.58521	104.85027	260.10673	4.97188	0.2689560	2.3632482413944
(497639)	17.9	4.33048	171.77306	160.22659	1.39589	0.2033660	2.3845836413944
(497640)	18.1	2.19916	178.66077	175.57088	6.16382	0.2600897	2.3707728413945
(497641)	16.0	348.47787	66.51078	306.32090	16.07568	0.1076764	3.0506506413945
(497642)	17.2	338.61069	242.97636	129.32092	0.31474	0.1883836	3.1554612413945
(497643)	17.7	315.69057	11.21779	16.07503	2.29727	0.2268931	2.4066973413945
(497644)	16.5	305.74896	146.21402	242.38199	9.58309	0.0781868	3.1354689413946
(497645)	16.7	343.92650	196.59144	187.75348	11.41838	0.0923130	3.1187686413946
(497646)	18.2	345.45162	210.21593	177.55940	2.47088	0.1994127	2.3720270413946
(497647)	18.1	12.12297	324.52862	25.40952	2.85639	0.1949291	2.3724879413947
(497648)	17.0	347.02509	330.10949	35.76897	3.32942	0.1050940	3.1553544413947
(497649)	16.0	21.84579	285.83064	17.25424	32.65684	0.0882694	3.2379241413947
(497650)	18.5	304.40278	256.37175	177.24461	5.57484	0.2082474	2.3921748413947
(497651)	16.3	52.31285	293.84712	25.61799	11.04014	0.0739317	3.1021599413948
(497652)	18.6	354.95260	332.39214	25.73607	2.92481	0.2029263	2.3903958413948
(497653)	16.8	5.25776	181.68882	154.11562	1.58620	0.1789558	3.1523969413948
(497654)	17.7	45.57614	311.01312	337.58935	1.77478	0.2009119	2.3698047413948
(497655)	16.1	81.38687	337.51071	292.70773	9.29043	0.0436192	3.0564218413949
(497656)	16.1	111.59765	229.42535	12.59825	27.14269	0.1108120	3.1358614413949
(497657)	18.0	31.73576	15.57914	294.61321	6.31123	0.1300299	2.3604794413949
(497658)	18.2	322.34312	190.21453	184.78855	4.89061	0.1286081	2.4133389413950
(497659)	18.8	46.77567	128.50026	172.31251	1.68821	0.1879153	2.3676122413950
(497660)	18.4	359.82112	336.76055	14.33057	2.63316	0.2111129	2.3824249413950
(497661)	18.4	342.45450	337.51166	20.93949	3.28496	0.1393145	2.4034468413950
(497662)	16.7	339.76179	238.23138	132.07135	1.90051	0.1762219	3.1496389413951
(497663)	17.9	264.46566	307.36307	143.87197	1.74604	0.1451325	2.4071375413951
(497664)	18.2	307.48665	207.58398	195.63378	5.00078	0.2005156	2.4119742413951
(497665)	18.6	327.57890	246.18931	151.67161	1.39802	0.1885811	2.3866791413951
(497666)	18.1	335.19136	37.26288	329.05035	1.32965	0.1340587	2.4123495413952
(497667)	18.0	38.89244	324.53987	353.70165	1.87154	0.1813744	2.3674753413952
(497668)	16.2	331.76731	171.66924	213.83183	8.68698	0.0992963	3.1725353413952
(497669)	16.2	320.57430	193.47540	205.13809	11.11277	0.1595769	3.1791563413952
(497670)	16.2	329.06485	26.14438	11.49091	10.87599	0.0847036	3.1500582413953
(497671)	16.9	358.60279	336.49664	55.82524	10.17115	0.0740027	3.0684403413953
(497672)	18.0	269.10362	249.72954	197.26538	4.60705	0.0775540	2.4044030413953
(497673)	18.8	344.30250	9.19897	1.21804	2.28395	0.1380046	2.3954756413953
(497674)	15.9	352.83791	342.08459	358.19696	17.07556	0.2153994	3.1602954413954
(497675)	16.2	355.36328	82.53253	277.76617	9.70690	0.1607829	3.1116880413954
(497676)	17.6	30.52876	102.64480	202.02728	20.49664	0.3426054	2.3638471413954
(497677)	16.8	330.70964	113.81773	244.85798	8.37987	0.2245777	3.1822470413955
(497678)	17.9	312.37913	172.36955	208.85902	0.83714	0.2054031	2.4210845413955
(497679)	15.9	10.38288	11.04351	355.69766	23.99193	0.1796951	3.0641391413955
(497680)	16.9	344.97743	70.79821	286.60553	2.90215	0.2609060	3.1709056413955
(497681)	18.1	18.61304	106.20290	213.64758	9.59220	0.2533795	2.3808535413956
(497682)	17.6	27.14070	299.27934	6.68536	6.84298	0.1938789	2.3820097413956
(497683)	18.5	297.73082	222.43021	189.10687	0.89044	0.1796770	2.4150875413956
(497684)	16.8	287.22215	244.39225	190.32390	5.07499	0.1855670	3.1792332413957
(497685)	16.1	313.19944	60.03946	1.76692	26.18030	0.2054026	3.1335960413957
(497686)	17.3	319.69959	207.09579	195.88158	0.59488	0.2397448	3.1563617413957
(497687)	16.4	9.24529	38.82365	338.03391	11.47364	0.2114665	3.0457176413957
(497688)	16.1	350.08842	142.69454	214.95531	16.72500	0.2560754	3.1341782413958
(497689)	15.9	345.46917	92.67197	301.44834	15.07965	0.1115787	3.0782862413958
(497690)	17.9	357.29959	150.36864	210.42452	11.00149	0.2486358	2.3776268413958
(497691)	18.5	306.34942	235.83241	156.40706	0.41694	0.2259176	2.4227212413958
(497692)	18.5	320.47565	200.52798	186.26237	3.35557	0.1718436	2.4043085413959
(497693)	16.4	8.15140	324.44165	10.31755	5.41267	0.1331866	3.1486318413959
(497694)	16.7	354.81228	187.34016	162.29718	1.54504	0.1730179	3.1793114413959
(497695)	18.4	356.64703	170.56867	152.88488	1.33422	0.2104819	2.4292678413959
(497696)	16.9	355.66948	284.07347	78.09063	2.52730	0.1934879	3.1528915413960
(497697)	16.1	346.41353	350.88529	34.47380	11.76501	0.1172369	3.1403773413960
(497698)	16.0	290.35040	279.86087	194.72072	25.26788	0.2103386	3.1148778413960
(497699)	18.3	321.28474	353.39560	39.46350	3.59715	0.1811950	2.4094662413961
(497700)	16.9	344.10785	157.61194	203.28496	10.44596	0.0877591	3.1617085413961
(497701)	16.3	304.37996	45.85239	14.03726	16.63215	0.2428186	3.1790812413961
(497702)	18.4	0.90722	118.68987	206.66222	2.02899	0.2148584	2.4139342413961
(497703)	17.9	338.57751	213.00519	179.02966	1.25842	0.1782994	2.3828015413962
(497704)	18.1	328.74042	354.99514	22.25469	4.22751	0.2286130	2.4159755413962
(497705)	16.3	359.69043	320.22597	21.65670	12.07044	0.0974301	3.2056571413962
(497706)	18.3	320.50215	226.54966	184.47563	1.12516	0.1679885	2.3936850413962
(497707)	18.1	320.45893	27.82143	15.97351	2.88775	0.1851483	2.4004383413963
(497708)	18.2	280.22091	67.46652	357.62365	0.84210	0.1676501	2.4252610413963
(497709)	16.5	332.86633	112.45625	290.61630	12.58286	0.3034406	3.1540576413963
(497710)	18.1	347.71905	304.54006	39.30488	0.69873	0.2083080	2.4143863413963
(497711)	16.8	27.27038	319.82750	17.86138	3.23958	0.1020201	3.1134587413964
(497712)	16.6	317.81255	22.50434	56.13298	1.07088	0.1587733	3.1025322413964
(497713)	16.4	13.73295	313.39547	22.19672	1.98528	0.1518167	3.1659027413964
(497714)	17.0	332.52084	157.72861	206.00364	1.77846	0.1957446	3.2139261413964
(497715)	17.6	16.12386	205.75392	121.85844	5.88378	0.2737713	2.3802190413965
(497716)	16.5	10.83331	127.82312	212.63821	8.79761	0.2364849	3.0764569413965
(497717)	16.5	20.67214	334.40020	13.39504	11.35773	0.2201302	3.0740083413965
(497718)	18.0	334.58599	147.94949	227.58066	5.50388	0.2287311	2.3977692413965
(497719)	16.6	43.51908	103.70774	192.47998	23.74741	0.2074404	3.1413727413966
(497720)	17.7	329.72682	203.09639	202.34402	6.72462	0.1222023	2.3808735413966
(497721)	16.7	30.70308	135.45590	191.26904	4.67935	0.1417192	3.0928248413966
(497722)	16.9	353.50451	275.27573	58.68464	2.59490	0.2050593	3.1769841413966
(497723)	18.0	318.31092	208.95675	188.36568	5.73133	0.2268621	2.4134371413967
(497724)	16.1	293.41924	255.83798	191.31564	25.89465	0.2129439	3.1280224413967
(497725)	18.1	303.45858	189.40380	210.70128	4.38761	0.2314987	2.4207510413967
(497726)	16.4	309.43248	179.80604	204.34408	7.91457	0.0619115	3.2063233413967
(497727)	16.7	291.55497	246.94610	195.18069	15.78975	0.2228156	3.1522307413968
(497728)	16.5	334.67051	206.04827	192.69240	8.55266	0.1810364	3.1099681413968
(497729)	16.5	12.25373	157.15521	218.29297	4.63430	0.1820619	3.0565124413968
(497730)	17.8	265.34928	263.70949	181.04862	6.79856	0.1046888	2.4062698413968
(497731)	18.3	299.43323	249.87067	188.34456	1.30317	0.1375550	2.3732228413969
(497732)	18.6	359.49515	106.78979	226.48124	0.63513	0.1930930	2.4101514413969
(497733)	16.2	4.63116	316.91463	25.05208	9.54749	0.0915309	3.1735600413969
(497734)	16.4	23.31384	308.71140	19.99856	9.72087	0.1810194	3.1505427413969
(497735)	16.2	326.90720	23.36377	18.61543	5.65839	0.2422342	3.1421228413969
(497736)	17.0	346.67581	192.43468	175.62858	6.27461	0.1771709	3.1487403413970
(497737)	18.0	5.42485	304.53643	35.34421	5.62288	0.2486794	2.3867105413970
(497738)	18.5	339.84482	347.10706	18.73978	7.13860	0.1805729	2.4115053413970
(497739)	16.4	83.60252	312.42917	318.28562	5.87604	0.1246408	3.0654625413970
(497740)	15.9	343.36841	189.37501	189.04478	26.98220	0.0938669	3.1503663413971
(497741)	18.4	23.66622	178.39067	128.57473	2.32699	0.2285266	2.3975152413971

(497742)	18.4	354.33776	307.71940	51.43648	3.19634	0.1986168	2.3890812413971
(497743)	16.6	358.75971	78.76070	296.45498	1.42274	0.0720825	3.0570424413972
(497744)	16.7	312.06900	197.78072	210.16531	7.78067	0.1454267	3.1590636413972
(497745)	17.3	319.96773	118.14759	310.73429	2.86898	0.2790062	3.1177137413972
(497746)	16.1	298.36073	223.41236	204.38341	10.27517	0.0934064	3.1331982413972
(497747)	16.8	353.24990	211.39055	170.15118	11.78501	0.1472089	3.0622935413972
(497748)	18.3	305.61403	257.48945	160.21352	2.65154	0.1065977	2.3891370413973
(497749)	17.4	258.44625	49.98467	30.07673	3.79599	0.2186145	2.4486487413973
(497750)	16.6	0.39633	223.68761	122.88411	2.56280	0.1778615	3.1399143413973
(497751)	18.1	314.61367	287.32867	122.18760	1.36578	0.2176440	2.3911889413974
(497752)	16.5	24.51551	335.48344	10.87779	9.23728	0.0912364	3.0731296413974
(497753)	16.7	358.95110	237.82981	104.48133	2.98728	0.0499639	3.1786006413974
(497754)	17.1	16.57543	124.39911	202.42908	8.79350	0.2837233	3.1309176413974
(497755)	17.6	285.08297	195.84148	254.09536	5.57436	0.1348545	2.3997138413975
(497756)	17.7	301.02757	284.99495	107.24440	2.22150	0.1952602	2.4347405413975
(497757)	17.9	346.15796	331.45590	50.99239	6.53218	0.2325076	2.3824683413975
(497758)	17.7	321.93201	259.13843	125.24002	5.55199	0.2319117	2.4073379413975
(497759)	16.3	14.25129	255.33177	76.21642	10.84396	0.2242565	3.1358315413976
(497760)	18.4	303.22217	203.46669	206.77868	1.09714	0.1652300	2.4059226413976
(497761)	17.8	3.84624	152.23275	186.53098	13.83445	0.1773557	2.3911789413976
(497762)	16.2	280.14246	86.53050	345.09142	8.87246	0.0885664	3.1627162413976
(497763)	16.4	300.13313	83.34425	7.25516	15.92645	0.2077918	3.1260681413977
(497764)	16.3	334.56848	235.55985	200.93352	17.39116	0.2955797	3.0784018413977
(497765)	18.5	306.71305	178.52731	242.15111	2.39475	0.1146784	2.3911873413977
(497766)	16.2	320.27473	43.87636	356.42248	7.86829	0.1613430	3.1658239413978
(497767)	16.6	299.87308	34.54021	28.25866	10.12496	0.1176072	3.1714853413978
(497768)	16.7	1.70402	264.26089	111.94149	2.16016	0.1919395	3.0974786413978
(497769)	18.5	36.03160	194.29030	128.10165	2.18495	0.2007827	2.3681818413978
(497770)	18.1	298.85614	281.15026	163.65573	3.66733	0.2378470	2.3887276413978
(497771)	16.4	51.04602	248.83753	27.70856	10.36198	0.2034274	3.1763994413979
(497772)	16.4	307.33571	335.85907	101.41902	2.44979	0.1746634	3.1485224413979
(497773)	16.8	288.23023	24.60155	51.15252	6.39730	0.1771576	3.2067355413979
(497774)	16.8	332.35592	34.89065	19.88927	9.72197	0.1581016	3.1343716413980
(497775)	17.6	6.55973	99.30829	228.98416	4.02359	0.2380526	2.4145009413980
(497776)	18.2	317.00502	62.95541	9.69516	5.07714	0.2059071	2.3871214413980
(497777)	18.1	30.98520	227.65345	69.75966	3.22696	0.2086110	2.4001525413980
(497778)	18.1	22.06980	290.11994	41.60216	6.82095	0.1327019	2.3810260413981
(497779)	16.4	344.66889	23.60616	346.67465	6.73614	0.1703517	3.1672958413981
(497780)	16.4	339.13086	173.03096	221.05795	10.03037	0.2261316	3.1408278413981
(497781)	17.9	344.34540	219.64633	164.34993	4.14643	0.2129332	2.3839001413981
(497782)	17.4	322.27194	191.10141	217.13427	9.06251	0.2760436	2.3914098413982
(497783)	16.4	334.88061	259.28577	115.94874	13.09713	0.1408046	3.2258133413982
(497784)	16.9	22.13870	200.14160	137.63711	2.00188	0.1811638	3.0882652413982
(497785)	16.5	12.09445	226.80883	140.26499	11.22174	0.0635083	3.1197667413983
(497786)	15.4	16.03734	198.54139	130.67394	3.83656	0.1921492	5.0528547413983
(497787)	16.2	181.91280	2.47446	183.80213	27.03817	0.1033127	3.1510784413983
(497788)	18.5	217.69093	133.32307	26.93583	21.00475	0.0579901	1.9652443413983
(497789)	16.2	281.39340	54.21208	22.39614	15.87959	0.1022671	3.1917538413984
(497790)	16.8	14.45631	68.73524	268.85114	11.42162	0.2682704	2.3814988413984
(497791)	17.1	308.72357	344.51316	69.21478	3.27044	0.1860377	3.1909926413984
(497792)	16.8	299.67829	26.71762	45.20122	16.36543	0.0790784	3.1938926413984
(497793)	17.2	346.22569	215.60903	165.98313	1.35910	0.1803080	3.1492833413985
(497794)	16.4	275.46483	74.59568	35.37850	9.79591	0.0649640	3.1411314413985
(497795)	15.8	307.18202	216.59145	203.44642	15.50285	0.0724870	3.1846020413985
(497796)	18.4	12.24013	323.30925	26.31179	3.52619	0.1988468	2.3935175413985
(497797)	17.2	350.55797	195.58780	203.04641	9.44993	0.0960608	3.0767128413985
(497798)	18.3	346.33624	291.97167	71.06275	3.99419	0.1649040	2.4084766413986
(497799)	16.5	326.85566	38.63206	34.10547	16.95388	0.2140858	3.0920368413986
(497800)	17.8	323.31356	335.91300	41.66925	2.73407	0.1812802	2.4324969413986
(497801)	16.5	32.63829	144.52990	206.09191	16.99799	0.2165007	3.0595070413986
(497802)	16.1	356.20602	329.19356	42.21075	13.58676	0.0771781	3.1556743413987
(497803)	16.3	355.98173	167.18001	205.24018	12.40117	0.1196032	3.1662619413987
(497804)	15.9	271.86525	66.58676	33.89912	18.60169	0.0581083	3.1835135413987
(497805)	17.0	353.48418	338.33640	36.22417	1.99750	0.1967301	3.1472301413988
(497806)	17.0	332.47985	181.29605	209.35742	8.78902	0.1758561	3.1790884413988
(497807)	17.7	248.88998	219.40826	230.23935	4.28062	0.1695537	2.4727109413988
(497808)	16.5	338.85413	185.93774	215.50542	9.20074	0.1853920	3.1508849413988
(497809)	15.9	9.74708	140.66958	221.50352	18.15502	0.1591737	3.1703705413989
(497810)	16.5	357.48867	106.30949	237.63235	4.40156	0.1451166	3.2110400413989
(497811)	16.8	303.01440	326.06267	88.00885	4.05679	0.2800442	3.2237596413989
(497812)	16.4	37.17584	127.39265	209.28761	21.96747	0.2031726	3.1000644413989
(497813)	16.2	2.99267	136.56933	239.92684	9.53077	0.1035477	3.1359735413990
(497814)	15.9	358.93346	349.49441	40.24857	17.98920	0.2055034	3.1240610413990
(497815)	16.9	359.13872	186.73087	162.15000	0.96542	0.1846816	3.1783668413990
(497816)	18.4	304.52039	209.74832	202.98179	4.75106	0.1927123	2.4267774413990
(497817)	17.9	348.52760	267.38877	95.86605	2.13267	0.2087738	2.4092633413991
(497818)	17.2	313.67035	282.80626	139.65837	1.57798	0.1719385	3.1783597413991
(497819)	16.8	39.08375	161.83336	168.28825	9.87581	0.0569452	3.1077134413991
(497820)	16.9	279.50525	257.40096	180.43036	8.75045	0.0762272	3.1614096413991
(497821)	18.2	336.01653	138.96708	230.86357	2.34635	0.2271406	2.4183574413992
(497822)	16.7	315.48998	337.63716	63.87292	5.72319	0.1779870	3.2059215413992
(497823)	16.5	322.01910	175.27968	241.28287	8.69547	0.1271651	3.1645455413992
(497824)	16.5	328.94470	26.55952	29.18013	10.86247	0.0864432	3.1295413413992
(497825)	16.3	343.66738	211.68344	159.54461	15.82304	0.2852124	3.1663757413992
(497826)	16.6	313.44876	32.71905	31.03359	10.71154	0.2221657	3.1509911413993
(497827)	18.3	8.00889	208.20976	138.56075	1.81147	0.2071212	2.3845990413993
(497828)	16.5	321.92926	168.53155	226.11580	10.19054	0.0525313	3.1894276413993
(497829)	16.7	30.10919	8.94985	228.32133	8.45577	0.1482237	2.5380469413994
(497830)	18.4	302.68761	121.39287	300.53258	1.53371	0.1867963	2.4110597413994
(497831)	16.2	5.30968	145.62883	215.89073	13.34183	0.1565255	3.1313039413994
(497832)	17.3	339.35193	155.61254	217.97770	5.43959	0.1886237	3.1817912413994
(497833)	18.0	319.60948	168.84383	203.96158	1.33682	0.1791618	2.4429255413995
(497834)	16.9	310.38986	193.25952	224.96419	14.34507	0.1705364	3.2031845413995
(497835)	18.5	285.21708	208.90125	205.17638	0.86107	0.1707165	2.4556997413995
(497836)	17.7	287.45610	234.23562	208.06722	5.54094	0.0840941	2.4216438413995
(497837)	16.5	10.92875	39.44860	301.83031	8.18943	0.1073263	3.1161447413996
(497838)	16.1	315.99682	53.90802	11.69699	12.64974	0.1020736	3.1342733413996
(497839)	16.4	279.29949	233.72472	226.20676	17.35792	0.1899622	3.1940320413996
(497840)	16.1	303.35782	56.93071	32.59308	15.60210	0.0936060	3.1515301413996
(497841)	16.9	280.02365	125.07259	337.99597	2.47166	0.1312598	3.1771490413997
(497842)	18.6	326.63940	13.78800	353.28685	1.17879	0.1831760	2.4120029413997
(497843)	17.9	274.91922	130.11198	332.54529	4.48307	0.1552859	2.4011596413997
(497844)	16.1	28.57126	305.72672	12.21078	15.90404	0.0816948	3.1949426413997
(497845)	16.9	334.81408	90.63831	289.34105	3.59062	0.2019852	3.1899635413998

(497846)	16.7	8.72832	344.31322	15.13437	10.43868	0.1760032	3.1327671413998
(497847)	16.2	141.30771	186.11345	17.12956	12.48274	0.0192901	3.2385885413998
(497848)	16.1	19.30600	145.38692	206.78447	27.19753	0.1457521	3.1014904413998
(497849)	16.3	331.37206	27.26849	20.94780	10.11840	0.0957386	3.1546838413998
(497850)	16.1	308.80890	202.44045	222.39348	13.53415	0.2295757	3.1609277413999
(497851)	16.7	38.65492	156.67259	173.31468	3.63532	0.1481432	3.1298112413999
(497852)	17.8	6.41177	230.14027	97.61970	2.57326	0.2061353	2.4189838413999
(497853)	16.4	340.39629	196.42867	209.25152	15.68846	0.1109154	3.1343751413999
(497854)	16.0	338.54384	173.18289	207.86544	22.54002	0.1513291	3.1984670414000
(497855)	16.9	315.14999	199.46589	212.74519	3.66965	0.0956355	3.1669300414000
(497856)	16.4	347.79525	157.81719	193.45576	4.67561	0.1650611	3.2113587414000
(497857)	16.8	349.00640	312.71641	74.73935	3.03822	0.1126303	3.1323735414000
(497858)	17.1	325.52597	2.65646	50.79284	4.38011	0.1392674	3.1455483414001
(497859)	18.3	280.75717	37.44829	50.45396	2.95039	0.1898763	2.4156983414001
(497860)	18.0	246.72106	329.79709	138.92892	2.81305	0.1620355	2.4512070414001
(497861)	17.6	260.37949	111.91783	353.62521	4.98574	0.0628061	2.4260043414001
(497862)	16.3	23.29238	15.61489	322.25993	4.77186	0.1939530	3.1667274414002
(497863)	16.3	276.18529	39.10460	37.49006	12.28005	0.0541116	3.2127454414002
(497864)	17.0	277.78744	331.94656	120.12765	2.50635	0.1875306	3.2010368414002
(497865)	18.2	348.00141	296.31585	55.08516	5.79308	0.0844689	2.4258569414003
(497866)	16.8	6.80457	292.66989	55.83562	6.12314	0.1252607	3.1656294414003
(497867)	16.6	7.47278	337.45001	43.44852	15.89014	0.0706358	3.0945375414003
(497868)	17.5	15.69407	311.74785	38.83757	8.13971	0.1400382	2.3638340414003
(497869)	16.5	355.26422	81.38554	286.08051	8.47482	0.2960037	3.1322728414004
(497870)	18.0	6.97615	176.52430	196.70011	6.72818	0.1282751	2.3479839414004
(497871)	17.8	337.56595	340.60249	41.49536	4.36317	0.0904831	2.4120979414004
(497872)	18.7	310.15923	204.64487	190.26042	0.67477	0.1603244	2.4409991414004
(497873)	16.8	349.25503	307.39431	62.32524	2.32703	0.1791376	3.1957567414005
(497874)	16.8	346.57390	182.44292	207.06105	10.67684	0.2427161	3.1448449414005
(497875)	16.2	59.69728	270.37232	29.29358	15.53288	0.1075264	3.1957445414005
(497876)	16.1	20.74538	284.11830	43.93240	15.76330	0.2107673	3.2128586414005
(497877)	16.0	27.22696	94.42558	251.45312	8.11349	0.0930558	3.1739666414006
(497878)	15.7	324.77869	46.09231	24.35534	16.93349	0.2080194	3.1225453414006
(497879)	16.0	326.51444	183.52533	213.21428	16.23901	0.1617908	3.1467967414006
(497880)	17.2	42.53555	264.50391	51.40112	10.46506	0.2620390	2.3646633414006
(497881)	18.3	277.92375	81.04418	331.14467	1.55952	0.1800521	2.4659377414006
(497882)	18.4	329.18350	215.75345	196.34448	2.92829	0.1393326	2.3718539414007
(497883)	18.0	354.12062	125.36053	221.58750	3.95653	0.1820397	2.4175669414007
(497884)	16.8	342.66642	325.09878	75.76718	0.73875	0.1867634	3.1438811414007
(497885)	17.9	4.18781	110.83211	203.07520	1.85774	0.2071889	2.4558276414007
(497886)	17.8	287.03358	229.29225	170.98129	1.29597	0.1390259	2.4680527414008
(497887)	17.7	11.60231	287.92465	44.77978	8.41212	0.3176255	2.3938440414008
(497888)	17.3	320.68601	231.65414	196.21659	9.96321	0.2212326	3.1265040414008
(497889)	18.5	305.17682	319.98960	76.35508	2.42325	0.1951512	2.4364318414009
(497890)	17.0	284.60774	77.29815	15.01370	1.04638	0.1672977	3.1977352414009
(497891)	16.1	347.90791	337.29089	48.07671	11.67153	0.2321346	3.1546801414009
(497892)	18.7	310.01110	108.69587	302.29128	1.18809	0.2081564	2.4198249414009
(497893)	18.2	55.97603	102.99822	200.28812	3.95213	0.0888543	2.3961035414010
(497894)	16.5	13.87726	47.86036	290.89831	4.05797	0.1654220	3.1615911414010
(497895)	16.0	116.13169	232.54600	3.39458	9.42803	0.0554919	3.0853031414010
(497896)	18.6	266.80987	79.73850	26.28783	1.72734	0.1562657	2.4198861414010
(497897)	16.2	322.24366	44.90287	1.20030	8.03076	0.1096444	3.0881893414011
(497898)	16.8	319.21740	227.94909	173.90703	11.09218	0.1213731	3.1095164414011
(497899)	17.7	243.67481	96.41423	37.70312	6.17197	0.1369315	2.4305953414011
(497900)	18.0	343.94272	273.26326	96.86840	3.49865	0.2088428	2.4122968414011
(497901)	17.6	348.47231	103.73445	229.28791	6.15292	0.1202457	2.4671447414012
(497902)	17.8	277.26111	358.22263	92.76930	3.11444	0.1451061	2.4154712414012
(497903)	18.2	331.33621	350.74768	64.22037	2.65852	0.1632051	2.3915154414012
(497904)	18.1	312.69296	189.42289	233.86441	2.10228	0.2152159	2.4142204414012
(497905)	18.2	338.70071	66.92764	329.39231	4.13888	0.1278959	2.3906131414013
(497906)	18.0	345.14210	345.66369	5.39063	1.84367	0.2259971	2.4306633414013
(497907)	17.8	285.99025	169.73836	250.40605	1.82175	0.1853034	2.4559931414013
(497908)	17.7	300.94564	342.78661	62.65244	3.46213	0.1907144	2.4530447414013
(497909)	18.2	289.24407	189.94854	242.97711	0.63739	0.1641060	2.4408015414014
(497910)	17.9	294.03544	186.92756	242.95666	3.32069	0.0921809	2.4258395414014
(497911)	18.0	14.25096	256.20457	62.73174	3.68777	0.2054236	2.4352830414014
(497912)	16.0	346.40609	92.33129	279.13492	23.35500	0.3483818	3.1449352414014
(497913)	16.5	330.06838	92.38907	291.17050	2.37421	0.0993205	3.2389122414015
(497914)	16.2	324.78875	146.74049	270.77120	7.75380	0.0767621	3.1807064414015
(497915)	16.2	15.13167	322.69186	38.19451	13.63427	0.1606298	3.1596116414015
(497916)	17.9	333.04727	190.35346	179.62377	1.13901	0.2010206	2.4417119414015
(497917)	18.0	5.75563	167.23125	179.68539	2.91520	0.1729091	2.4219921414016
(497918)	17.8	354.06890	223.82725	104.06162	3.59113	0.2105734	2.4603297414016
(497919)	15.2	300.92943	224.76549	246.34927	26.35373	0.2154431	3.1761220414016
(497920)	17.3	222.67876	336.82647	72.77407	11.04347	0.0890788	2.5936649414017
(497921)	17.1	337.33196	33.60401	12.58059	2.88468	0.1243629	3.1643843414017
(497922)	18.2	341.83718	101.23811	237.98767	1.59988	0.1769229	2.4399900414017
(497923)	16.4	358.15953	319.58861	53.42126	5.94277	0.1709181	3.1917506414017
(497924)	16.2	325.11839	21.98326	51.28206	15.51460	0.2643503	3.1648672414017
(497925)	18.3	296.84018	139.39500	276.01619	1.64077	0.1878421	2.4476772414018
(497926)	15.6	344.28200	156.71497	244.91843	13.54603	0.2847985	3.1341102414018
(497927)	18.6	322.11479	17.78210	31.33564	2.69698	0.2075162	2.4160723414019
(497928)	16.5	304.10498	359.27845	92.40681	2.68416	0.0921551	3.1716026414019
(497929)	18.1	339.05711	154.61476	232.37134	5.83267	0.1380325	2.4196749414019
(497930)	15.6	348.64011	121.56161	254.60029	19.23274	0.1939851	3.1677713414019
(497931)	18.1	311.06864	157.80039	232.76925	2.27567	0.2026021	2.4623513414019
(497932)	17.9	311.52589	333.66968	60.86027	2.31613	0.1878278	2.4478249414020
(497933)	18.0	291.64270	307.25887	86.85488	6.22527	0.1192528	2.4816654414020
(497934)	18.0	301.59406	216.23108	190.84628	4.31269	0.1777510	2.4481373414020
(497935)	16.3	285.90969	156.66743	200.44224	9.81707	0.1509411	3.4205325414020
(497936)	15.7	78.19616	78.81074	213.76549	22.49043	0.0930312	3.1450035414021
(497937)	17.9	3.61276	135.51587	230.17700	18.87202	0.0790458	1.9653314414021
(497938)	18.4	330.67920	8.32272	39.00802	2.80864	0.1915755	2.4002430414021
(497939)	17.9	350.02228	310.99400	60.24862	4.00286	0.2029755	2.4131953414021
(497940)	18.1	233.60550	347.21340	143.09423	1.11658	0.1485031	2.4667345414022
(497941)	18.4	303.46760	233.07632	184.97470	1.74214	0.1834843	2.4467938414022
(497942)	18.2	310.46186	280.19623	159.76757	1.45853	0.1549066	2.4096534414022
(497943)	18.1	282.69648	29.34700	60.84374	2.14459	0.1553406	2.4302082414022
(497944)	18.2	312.60213	297.00464	123.97207	3.73839	0.2023917	2.4181612414023
(497945)	16.4	336.74913	336.34863	82.24956	11.85085	0.2189432	3.1489223414023
(497946)	16.4	347.53368	333.58398	63.03902	15.54567	0.1285696	3.1852041414023
(497947)	18.0	284.90181	150.45316	271.46570	4.89903	0.1241610	2.4798898414023
(497948)	16.8	157.75574	325.85750	201.58600	4.13390	0.1816693	2.5630855414024
(497949)	18.0	23.84906	257.77005	85.11043	6.97342	0.1543880	2.4144999414024

(497950)	17.0	350.16879	145.20762	229.49228	3.74735	0.2044418	3.2035963414024
(497951)	17.5	248.11296	237.31445	258.58759	3.98983	0.1425810	2.4369178414024
(497952)	16.0	340.07625	314.37159	76.57531	6.14047	0.1946500	3.2030325414025
(497953)	17.0	193.79630	207.41040	280.82894	11.24297	0.0928077	2.5842740414025
(497954)	16.1	281.16820	188.35562	255.67411	9.09163	0.0625698	3.2421038414025
(497955)	17.8	330.14695	339.27129	65.87423	3.60629	0.1974269	2.4177024414025
(497956)	17.7	312.29217	8.25701	94.35578	9.19841	0.1825614	2.4002183414026
(497957)	16.2	168.55933	101.84745	73.80347	13.36234	0.2247703	2.5506504414026
(497958)	17.4	322.94798	341.28898	93.65107	5.82160	0.1629562	2.4140052414026
(497959)	15.3	235.43580	160.41236	287.01287	9.85177	0.0567117	3.5643615414027
(497960)	15.6	302.74576	179.99295	257.03528	16.35619	0.1623604	3.2030829414027
(497961)	15.7	153.50093	206.66304	316.50860	28.32776	0.1767245	2.6314798414027
(497962)	17.4	99.15337	90.08988	129.34095	13.38888	0.1191368	2.6200412414027
(497963)	18.0	232.17865	324.60274	145.40226	2.40815	0.1702166	2.5492374414028
(497964)	17.2	120.20688	266.27938	312.23475	13.15057	0.0996275	2.5771952414028
(497965)	17.2	215.19480	162.26639	324.61345	5.43605	0.2125683	2.5543506414028
(497966)	16.7	66.64671	119.92807	114.13181	13.34252	0.1277395	2.6737169414028
(497967)	17.0	193.12657	211.24212	311.08141	16.14277	0.0931965	2.5336704414029
(497968)	17.9	238.09577	334.85421	127.25465	2.67261	0.1198170	2.5412975414029
(497969)	17.5	152.35765	225.61030	298.24101	3.99197	0.1707629	2.6140883414029
(497970)	16.7	92.20719	292.60169	294.74535	11.74763	0.2088799	2.6396189414030
(497971)	17.2	280.00127	112.34106	302.15932	4.52032	0.1831446	2.5344913414030
(497972)	17.9	228.72953	163.92174	327.03813	14.93368	0.1439377	2.5449960414030
(497973)	16.5	129.99616	256.08547	311.05826	27.08673	0.0823552	2.5668834414031
(497974)	18.0	349.72700	265.76651	124.01016	6.17277	0.1907229	2.4707851414031
(497975)	16.5	326.50051	279.50640	138.13930	10.64907	0.1892903	3.3296018414031
(497976)	17.5	211.70264	88.16983	55.83642	5.68086	0.1920053	2.5508008414031
(497977)	18.2	343.52061	274.07771	132.35754	3.52555	0.2458324	2.4196669414032
(497978)	17.8	207.71086	177.37752	313.55763	7.64297	0.1088086	2.5670780414032
(497979)	17.6	100.09682	248.30340	319.74646	10.92342	0.1508936	2.6656158414032
(497980)	17.1	181.27401	64.38774	115.34358	6.73250	0.1256771	2.5491078414032
(497981)	16.5	124.25575	34.67708	96.78150	11.26242	0.1591815	2.7465711414033
(497982)	17.0	114.45126	203.68972	3.11785	14.06035	0.2690488	2.6703986414033
(497983)	17.1	269.13216	288.04994	136.64136	17.23472	0.0970037	2.5822564414033
(497984)	17.5	64.91046	72.56982	156.84547	11.18246	0.2271311	2.7462581414034
(497985)	17.8	204.06354	2.78181	151.68669	8.97358	0.0995241	2.5667123414034
(497986)	17.7	250.34958	304.20445	159.18151	16.92763	0.0757619	2.5651475414034
(497987)	17.6	118.96186	237.93954	319.05890	1.73721	0.1480302	2.6732016414034
(497988)	16.9	114.46427	47.47985	155.84645	13.55373	0.1036951	2.6711900414035
(497989)	17.4	126.57378	178.01145	34.46503	3.87264	0.1884064	2.5953870414035
(497990)	17.2	78.22766	100.73913	170.48061	14.45238	0.0890663	2.6054862414035
(497991)	16.6	135.57229	225.83154	355.05141	14.98220	0.0666225	2.6199655414035
(497992)	17.5	46.34323	275.08024	354.04576	14.68707	0.2724316	2.7336796414036
(497993)	17.9	330.52830	301.98731	148.77100	1.62601	0.1528298	2.4422758414036
(497994)	16.9	51.95037	80.54430	140.28216	10.03949	0.1010154	2.7767036414036
(497995)	17.4	75.74296	251.96417	346.17354	9.13044	0.2780344	2.7149337414036
(497996)	17.6	96.75514	55.09195	173.19275	6.41323	0.1286306	2.6606978414037
(497997)	18.2	253.77623	326.60131	144.25297	11.55312	0.1483633	2.5149494414037
(497998)	17.5	82.61729	306.92353	291.40453	1.29677	0.1076618	2.6874011414037
(497999)	17.8	259.21899	22.60454	88.23706	3.72650	0.1022799	2.5532480414037
(498000)	17.8	344.79115	80.84981	327.49484	8.16204	0.3017838	2.4282405414038
(498001)	16.6	174.06403	164.12143	9.52710	17.71467	0.1307553	2.6373450414038
(498002)	17.5	152.38413	53.33688	144.57247	4.54409	0.1372520	2.6255983414038
(498003)	17.7	286.32601	6.51589	85.54422	4.25706	0.1148855	2.5323910414038
(498004)	17.4	23.52313	220.03472	105.29010	5.02098	0.0422970	2.6187848414039
(498005)	17.4	49.87809	288.04939	356.69706	17.84851	0.3813480	2.7371226414039
(498006)	17.1	150.14345	42.16896	166.60458	13.56656	0.1172426	2.6158377414039
(498007)	17.9	282.66340	317.75765	130.78300	5.22028	0.1188989	2.5346189414039
(498008)	17.4	79.57670	225.24080	34.98298	9.48258	0.1747623	2.7124937414040
(498009)	17.6	250.16670	11.09284	88.80258	6.49865	0.0757235	2.5661386414040
(498010)	16.9	97.22455	26.72847	132.72710	9.24483	0.0872008	2.7551595414040
(498011)	17.2	51.12276	274.50771	325.09697	8.17939	0.1955250	2.7504647414040
(498012)	17.8	86.74352	62.67702	156.02207	7.87692	0.1650564	2.7278265414041
(498013)	16.7	272.98284	208.74508	139.59251	7.54773	0.0337701	2.8007789414041
(498014)	16.7	268.31629	77.64535	12.86901	22.30800	0.0355207	2.6148321414041
(498015)	17.8	217.65588	315.41414	192.22148	15.20357	0.1300322	2.5912091414041
(498016)	16.8	236.02685	258.62325	198.16549	21.36134	0.0742346	2.6612773414042
(498017)	16.9	238.23888	107.05553	4.71748	22.13288	0.0197486	2.6143636414042
(498018)	17.0	102.57244	239.12249	348.04849	10.94399	0.1450214	2.6640990414042
(498019)	16.7	14.78967	338.82934	12.04269	12.68770	0.1973718	2.5836396414042
(498020)	17.8	87.59527	270.58797	332.41080	4.20916	0.1993053	2.6580674414043
(498021)	17.2	22.76816	128.93178	181.12487	10.90781	0.2057781	2.6913541414043
(498022)	17.3	104.15695	78.17987	170.54988	3.72334	0.1501057	2.6263918414043
(498023)	16.8	211.79463	205.44143	308.16151	11.57248	0.2166151	2.5822431414043
(498024)	16.8	109.36753	88.80547	145.58121	14.01115	0.2544046	2.6918517414044
(498025)	17.1	162.79194	359.77885	180.51871	8.06333	0.1738533	2.6523698414044
(498026)	16.6	358.32051	345.23342	23.74602	16.06298	0.0874086	2.6258543414045
(498027)	17.1	84.66281	231.91150	33.48789	12.09956	0.0473090	2.6874397414045
(498028)	16.7	93.70957	50.21466	209.67223	16.97620	0.1750966	2.6908724414045
(498029)	17.1	56.68218	91.77931	177.54633	12.62451	0.1532189	2.7086349414046
(498030)	16.8	106.67373	205.12917	55.52750	15.68011	0.0338479	2.6640899414046
(498031)	17.3	49.20520	336.00973	336.91143	3.31373	0.1423446	2.6823982414046
(498032)	17.6	208.06045	346.50343	182.02718	32.22311	0.1030573	2.5806015414046
(498033)	16.8	356.22182	323.23363	74.19248	5.56910	0.1314509	2.6161870414047
(498034)	17.3	26.72557	89.24751	213.40252	3.05687	0.2374074	2.7872422414047
(498035)	16.5	28.21258	261.78624	45.64622	14.01779	0.1507277	2.7469331414047
(498036)	17.5	82.70772	197.77580	44.21911	3.93678	0.1398937	2.7319886414047
(498037)	17.2	159.57339	22.87354	148.04452	2.32355	0.0257030	2.6776853414048
(498038)	16.9	37.62772	30.08697	259.47758	3.43942	0.1200425	2.7539370414048
(498039)	16.9	122.60430	348.63387	221.07772	7.99270	0.1064802	2.7392238414048
(498040)	16.6	339.32118	344.20666	41.57942	13.85694	0.1194027	2.6611163414048
(498041)	17.5	73.23684	50.31393	185.69736	4.34066	0.1433352	2.7828875414049
(498042)	18.3	72.78932	32.23582	226.35854	17.18783	0.1782933	1.8061606414049
(498043)	17.2	166.56228	57.63165	144.58124	9.88493	0.0901018	2.6608559414049
(498044)	17.0	269.16530	260.23321	173.24158	6.63614	0.0329880	2.7306109414049
(498045)	18.5	29.16286	24.68776	276.01623	1.96364	0.1812067	2.2349319414050
(498046)	18.0	19.11936	146.67720	178.38483	3.41911	0.2979047	2.2089046414050
(498047)	18.3	350.49016	102.91375	243.75879	4.47533	0.2614855	2.2340279414050
(498048)	18.7	32.80699	136.15714	177.91747	2.75416	0.1907763	2.2162365414051
(498049)	18.4	357.55080	67.05478	263.97237	2.80115	0.2485102	2.2519572414051
(498050)	16.5	300.27878	209.89400	204.49580	10.10866	0.1051259	2.9597486414051
(498051)	16.0	281.04786	71.57225	326.81219	8.91701	0.0772617	3.0413436414051
(498052)	17.3	3.86345	122.90081	250.70827	3.51839	0.1449135	2.8759897414052
(498053)	16.4	255.84689	242.87605	201.05068	9.57191	0.0633448	2.9924886414052

(498054)	17.1	25.54579	318.93607	12.37585	5.07569	0.1191593	2.9273243414052
(498055)	17.8	316.21777	66.55076	316.55489	5.87459	0.2214416	2.2679528414052
(498056)	16.1	306.40024	59.48675	325.03753	7.81089	0.1274387	3.0187406414053
(498057)	18.1	334.76970	316.54578	31.45086	4.98989	0.1718003	2.2982065414053
(498058)	17.4	21.40848	49.96508	223.84967	0.40646	0.2016738	2.9959321414053
(498059)	18.1	26.27514	163.57263	153.92362	6.22052	0.1771987	2.2239506414053
(498060)	18.6	324.69028	357.01180	49.86534	3.90881	0.1846466	2.2366704414054
(498061)	16.2	296.19262	357.70824	32.47416	9.60820	0.1402035	3.0559070414054
(498062)	18.0	355.34056	12.99345	354.38193	5.49724	0.2498596	2.2188424414054
(498063)	18.2	276.00231	225.74217	192.84620	2.38248	0.1753776	2.2859729414055
(498064)	17.9	343.90581	202.98038	191.74146	4.00809	0.1589306	2.2148930414055
(498065)	18.1	2.03666	307.31661	8.13533	10.80834	0.2018884	2.2665767414055
(498066)	18.1	48.08153	180.94676	106.11762	10.74216	0.4397335	2.2106865414055
(498067)	17.9	22.64796	244.27225	52.88645	3.77113	0.2444110	2.2476081414056
(498068)	18.7	48.59279	86.29138	196.06766	16.81593	0.4486031	1.8363043414056
(498069)	18.5	355.15896	137.47908	209.34596	3.06521	0.2115651	2.2346614414056
(498070)	16.6	309.88889	205.50060	180.55897	10.60841	0.0503084	3.0159886414057
(498071)	17.1	313.98328	237.20432	149.36988	2.15131	0.1153317	3.0042353414057
(498072)	16.3	320.62259	204.80099	161.99958	10.74272	0.0980337	2.9924270414057
(498073)	18.3	41.99193	140.68918	129.16421	2.71705	0.2215533	2.2506676414057
(498074)	17.8	353.50520	186.74634	154.27513	6.20331	0.1835214	2.2480574414058
(498075)	16.2	358.09215	310.65787	4.86335	14.10698	0.1385612	2.9993118414058
(498076)	16.7	255.01044	268.96546	196.28074	16.21742	0.2468442	3.0484931414058
(498077)	18.7	301.17935	279.58530	158.74902	3.92772	0.1375635	2.2230314414058
(498078)	18.2	318.57517	7.95358	8.26416	6.72568	0.1941411	2.2711309414059
(498079)	17.0	296.55529	171.28729	234.18130	0.68245	0.1109538	3.0096883414059
(498080)	16.9	13.58744	218.86869	141.62120	2.80249	0.1145139	2.8848302414059
(498081)	18.7	341.87879	7.52064	14.29098	7.80094	0.0989203	2.2267570414059
(498082)	18.5	40.72467	166.88740	120.23485	2.34117	0.1732057	2.2471513414060
(498083)	16.8	328.84463	150.50663	207.07328	1.39923	0.2249607	2.9887829414060
(498084)	17.3	346.41601	56.96189	336.89936	3.65184	0.0869593	2.8847035414060
(498085)	18.1	8.42459	86.17424	261.34089	1.51255	0.1356308	2.2345827414060
(498086)	16.7	275.43146	253.44247	179.17094	9.69411	0.2874036	3.0150157414061
(498087)	18.2	352.95340	303.27978	20.34352	4.88255	0.1677948	2.2729534414061
(498088)	17.6	315.96999	240.68012	184.26409	7.54315	0.3285096	2.9265654414061
(498089)	16.7	320.07990	8.80308	28.98230	9.53522	0.1359053	2.9710666414061
(498090)	17.9	359.46978	325.77319	44.08337	4.59656	0.1900124	2.2244912414061
(498091)	18.0	340.53215	342.76716	31.05579	6.97569	0.2198019	2.2320108414062
(498092)	18.4	356.43509	186.62203	204.81486	22.16852	0.0679222	1.8370781414062
(498093)	16.5	290.39685	245.63895	164.85123	10.09313	0.1348325	3.0216973414062
(498094)	18.6	50.70286	333.56950	325.44083	2.06604	0.2103235	2.2072916414063
(498095)	16.6	319.20746	341.38400	64.12307	2.29423	0.2393604	3.0408011414063
(498096)	17.2	299.26046	183.67658	217.62481	4.24337	0.1611570	3.0199439414063
(498097)	16.5	333.00013	106.23002	300.53611	13.60743	0.2922037	2.9263408414063
(498098)	17.3	325.87488	244.25257	158.11067	1.99889	0.0703109	2.9306763414064
(498099)	17.2	326.38695	265.57604	159.51193	2.42158	0.0539588	2.8668278414064
(498100)	17.3	5.90293	290.79498	50.16424	1.97795	0.0891188	2.9754754414064
(498101)	16.8	316.09897	204.29585	169.90486	2.04059	0.1736703	3.0436041414064
(498102)	17.0	329.39892	17.88457	12.51517	1.69598	0.1317641	2.9651776414064
(498103)	17.0	310.52741	200.12808	197.69986	7.63046	0.0793124	3.0016988414065
(498104)	17.0	6.30273	189.18277	180.14648	0.79948	0.2033411	2.9645240414065
(498105)	15.8	8.45895	313.51381	17.57051	10.32118	0.0844457	2.9435190414065
(498106)	18.4	329.30420	17.99009	32.53952	5.88229	0.1269041	2.2163795414065
(498107)	16.5	339.80504	341.64098	359.30077	5.15187	0.1565878	3.0208732414066
(498108)	17.9	226.20799	288.11505	181.28780	7.19500	0.0720797	2.2784462414066
(498109)	18.4	336.21972	109.93905	203.90552	4.27016	0.2232219	2.2938845414066
(498110)	16.4	9.39887	130.00121	197.59578	9.33425	0.1148298	2.9890912414066
(498111)	16.5	296.53316	74.66823	11.33846	10.23222	0.0866481	2.9095456414067
(498112)	18.5	312.52680	216.26409	181.37825	2.91086	0.1868037	2.2783577414067
(498113)	17.3	353.21287	53.88321	306.99890	0.69624	0.1540404	2.9657442414067
(498114)	16.7	340.74289	348.15018	42.94229	3.25701	0.2573532	3.0029636414067
(498115)	16.8	352.70266	309.53828	48.22487	3.80116	0.3346686	2.9976701414068
(498116)	17.6	329.66921	32.96860	356.83107	7.61515	0.1866316	2.2372789414068
(498117)	16.2	313.90616	209.24574	202.68397	12.30303	0.3176204	3.0016262414069
(498118)	16.6	350.07322	157.92608	181.25478	12.07083	0.0934590	3.0233578414069
(498119)	18.5	325.97452	358.16966	27.36999	7.17675	0.1951004	2.2558634414069
(498120)	17.8	350.64652	12.84187	352.08568	8.48335	0.1524794	2.2396578414070
(498121)	17.4	337.13279	180.55672	203.17674	1.29507	0.3026337	2.9340630414070
(498122)	16.8	352.92334	197.21013	167.48814	2.08143	0.1226895	3.0106456414070
(498123)	18.6	307.23979	34.97669	359.30590	5.60403	0.1652283	2.2863783414070
(498124)	16.3	325.63605	39.31769	314.80344	10.98034	0.2020449	3.0402704414071
(498125)	19.5	319.27660	136.57133	282.23555	4.59531	0.4755289	2.2537433414071
(498126)	18.3	9.60142	152.42820	192.99674	3.76018	0.1596949	2.2331184414072
(498127)	17.7	4.45312	351.85570	359.01910	6.48387	0.2281670	2.9068366414072
(498128)	18.2	5.30657	346.97042	19.22453	7.33756	0.1843015	2.2227921414072
(498129)	16.9	319.36521	200.85062	190.76944	1.58617	0.1728535	2.9981560414073
(498130)	16.4	322.49504	345.06729	23.45609	11.75843	0.1467824	3.0512511414073
(498131)	16.9	307.55499	194.37706	211.75231	7.30987	0.1244673	3.0261438414073
(498132)	16.8	310.74512	5.80375	52.40070	5.21268	0.1378586	2.9977894414074
(498133)	17.3	333.66714	346.69319	52.19146	3.70331	0.1649283	2.9666685414074
(498134)	16.5	4.13610	297.17778	45.40964	11.43256	0.1291776	3.0220450414074
(498135)	16.9	195.97986	16.16849	134.90013	0.59168	0.0843065	2.9852652414074
(498136)	18.4	355.28909	139.46997	193.40181	5.72246	0.2099420	2.2675930414075
(498137)	16.7	297.93313	160.37541	232.49813	4.62452	0.1602432	3.0629724414075
(498138)	16.8	333.56388	4.33674	22.06306	12.12783	0.1993090	2.9813159414075
(498139)	17.3	304.22999	21.82549	36.58715	10.60148	0.1621051	3.0082690414076
(498140)	18.1	304.87772	36.75771	22.44480	5.50091	0.2132762	2.2677248414076
(498141)	16.9	1.36681	127.02349	215.42577	5.59291	0.2380617	2.9912294414076
(498142)	17.0	344.59615	335.26211	32.92138	2.32727	0.1030507	2.9994329414077
(498143)	18.9	64.13636	215.71565	23.76987	43.50043	0.5613291	1.1544193414077
(498144)	17.7	22.27368	359.97841	317.72613	11.97882	0.3514365	2.2347062414077
(498145)	16.8	315.75064	133.31204	201.12484	9.30652	0.1742777	3.1345992414078
(498146)	17.0	331.05838	206.88195	176.56237	5.03635	0.1680628	3.0086511414078
(498147)	17.5	2.18276	133.11348	185.39997	5.12711	0.2708607	2.9850480414078
(498148)	16.8	282.14722	206.47549	207.12885	9.55486	0.1518580	3.1040449414078
(498149)	16.9	356.34335	208.39752	114.52676	2.43992	0.0810799	3.0665722414079
(498150)	18.5	334.05935	305.54441	66.54073	3.28539	0.2125443	2.2727171414079
(498151)	18.1	348.28057	126.03752	216.13577	6.16688	0.2095408	2.2625889414079
(498152)	17.7	12.09651	324.28511	341.81931	6.97777	0.3004050	2.2575269414079
(498153)	16.8	9.55679	314.20106	16.41813	9.88510	0.0972062	2.9797607414080
(498154)	16.3	282.11626	184.24796	230.90001	9.04371	0.1049560	3.0598916414080
(498155)	16.4	8.48917	170.35766	191.78848	8.55593	0.1029038	2.9699047414080
(498156)	16.3	312.50986	128.54200	260.92981	11.95142	0.2023416	3.0202834414081
(498157)	16.7	298.11463	345.42022	68.01514	3.65354	0.1666952	3.0363625414081

(498158)	18.0	297.29948	289.02641	147.63623	2.33212	0.1152375	2.2556571414081
(498159)	19.1	351.69224	285.73488	53.80403	3.08480	0.2072151	2.2772731414081
(498160)	17.0	1.00391	328.20669	44.14072	4.45410	0.0734808	2.9524759414081
(498161)	16.7	322.71933	149.64284	213.36437	5.18500	0.1511284	2.9991543414082
(498162)	16.6	295.77467	222.82245	175.23755	10.53897	0.1189139	2.9935974414082
(498163)	16.9	328.67122	179.87283	207.10552	7.33287	0.2325208	2.9724843414082
(498164)	18.2	337.20414	119.50713	256.03494	1.83686	0.1724795	2.2526853414083
(498165)	16.8	323.72784	17.56391	356.85779	5.84206	0.1976707	3.0193847414083
(498166)	16.4	325.73739	327.27473	47.13055	9.04758	0.1630439	3.0426564414083
(498167)	17.1	323.97469	13.44531	35.23460	9.85412	0.1891428	2.9877470414083
(498168)	16.8	314.51817	229.96631	200.20555	11.06721	0.3910497	2.9948017414084
(498169)	16.5	350.65698	39.90232	344.15094	15.32510	0.2257756	2.9315215414084
(498170)	18.8	316.48438	5.09511	37.66915	4.78128	0.0795451	2.2611171414084
(498171)	16.6	279.84113	201.05893	220.11567	7.92689	0.0778283	3.0531633414084
(498172)	18.6	324.39372	5.97685	3.66349	2.39698	0.1615579	2.2807553414085
(498173)	17.1	323.47629	171.28935	215.27829	6.06208	0.2772284	3.0089603414085
(498174)	16.1	327.34278	333.52875	52.19256	11.26936	0.0578674	3.0355700414085
(498175)	17.0	322.92617	183.21529	181.68508	3.65954	0.1548227	3.0837162414085
(498176)	16.3	279.82051	164.94728	237.21685	9.53830	0.1103942	3.1089178414086
(498177)	16.7	271.37602	152.19145	282.82125	5.01522	0.1713570	3.0754491414086
(498178)	16.5	269.61806	122.24832	299.43220	2.95600	0.1221505	3.1207329414086
(498179)	18.2	344.93706	136.60662	230.48637	5.97532	0.2168555	2.2508317414086
(498180)	16.8	32.15736	115.95142	220.53130	9.55400	0.1158511	2.9697728414087
(498181)	17.1	7.82073	254.42182	101.34865	1.29396	0.1097136	2.9936711414087
(498182)	17.4	307.04485	252.37101	164.13417	3.07775	0.2105780	2.9967873414087
(498183)	17.9	284.30614	195.37337	237.45753	5.66657	0.0568450	2.2629825414087
(498184)	18.0	350.41290	323.46448	34.32205	13.00380	0.1596888	2.2629078414088
(498185)	16.1	221.55706	246.57201	220.80721	8.51024	0.0551250	3.1105384414088
(498186)	17.2	98.04897	69.77430	183.96046	6.21152	0.0790156	2.9644684414088
(498187)	17.1	35.97735	299.55958	12.54330	7.30884	0.2274052	2.9178533414088
(498188)	16.3	283.45648	31.74014	10.24603	5.46716	0.1318166	3.0652518414089
(498189)	16.6	342.43393	330.62766	13.15593	4.96928	0.1872366	2.9739182414089
(498190)	17.0	292.52874	7.88682	86.65918	3.22934	0.0657680	2.9532564414089
(498191)	16.6	201.36336	271.23464	214.57978	8.87050	0.0689038	3.1601518414089
(498192)	17.5	80.55419	191.53487	62.72576	6.52710	0.1405289	2.3013559414089
(498193)	16.6	349.69464	188.37482	184.12963	9.83256	0.1032604	2.9663307414090
(498194)	16.5	29.03888	40.58179	266.66140	6.35694	0.0500850	3.0549884414090
(498195)	16.7	326.25275	341.91832	19.01473	11.72324	0.1035405	3.0864295414090
(498196)	16.1	349.87405	122.43914	244.57111	7.43412	0.1039177	3.0009259414090
(498197)	16.7	353.81330	286.45131	37.12736	15.62497	0.2750473	3.0639136414091
(498198)	18.1	343.32830	264.92961	97.24455	5.69188	0.2015459	2.2674081414091
(498199)	16.5	325.69779	342.51338	71.91709	6.86184	0.0773336	2.9423055414091
(498200)	16.3	297.72214	7.08026	58.50594	9.87135	0.1020301	3.0510929414091
(498201)	16.8	286.44919	157.54656	243.25670	3.33825	0.1508801	3.0734449414092
(498202)	17.2	345.71799	156.80525	201.65014	9.47100	0.1082800	3.0224226414092
(498203)	16.9	338.45217	221.05010	170.51816	7.85578	0.0849301	3.0101767414092
(498204)	16.0	3.94235	108.17926	219.39222	25.67603	0.2068285	3.0371587414092
(498205)	16.5	300.70199	178.19024	211.88709	10.87521	0.0952454	3.0555859414093
(498206)	16.5	324.13375	121.21882	256.20207	2.09296	0.2425075	3.0354381414093
(498207)	18.0	21.79732	304.19002	21.20432	3.87845	0.2090951	2.2600612414093
(498208)	16.3	14.54743	127.38292	230.99340	17.87449	0.0683621	3.0083363414093
(498209)	18.2	2.87257	278.10563	83.49947	4.52983	0.2331138	2.2229275414094
(498210)	16.7	6.94327	33.42576	302.26805	0.77323	0.0868018	3.0048551414094
(498211)	17.9	358.14861	325.83763	44.55470	7.05160	0.2025873	2.2227097414094
(498212)	16.5	11.98892	295.85181	52.34732	10.87458	0.1148983	2.9804396414094
(498213)	17.0	298.07316	226.43430	176.63007	1.38453	0.1720951	3.0482560414095
(498214)	17.6	115.53657	184.15522	30.66942	5.38439	0.1146094	2.3036411414095
(498215)	16.8	260.90194	244.69242	203.87153	11.23562	0.0607083	3.0369942414095
(498216)	17.0	303.00882	324.82545	48.91351	5.81192	0.1220350	3.0785001414095
(498217)	17.2	116.80347	286.43505	76.71141	4.65299	0.1052141	2.6802381414096
(498218)	16.2	283.73036	141.84214	293.89983	6.12302	0.1492547	3.0563298414096
(498219)	17.1	20.59487	98.80092	212.81206	4.13784	0.1550570	3.0312328414096
(498220)	16.1	276.13969	58.78689	359.52985	9.63100	0.1229766	3.0686521414096
(498221)	17.1	286.33074	89.04230	313.55623	0.25393	0.1607923	3.0769416414097
(498222)	16.3	195.46846	73.38000	44.20075	10.34652	0.0184242	3.1433433414097
(498223)	16.5	324.82529	153.64645	202.01221	8.78771	0.0639296	3.1399090414097
(498224)	15.7	323.54695	323.01586	76.23012	20.97791	0.3760910	3.0628114414097
(498225)	18.2	332.87321	10.91186	5.28817	21.27604	0.0597467	1.8546369414098
(498226)	18.5	318.02882	180.28892	202.81819	2.19756	0.1758209	2.2885956414098
(498227)	16.9	305.90398	145.90180	189.31032	9.13273	0.0690274	3.1674726414098
(498228)	17.0	250.14833	30.22074	30.71871	1.25000	0.0449192	3.1195133414098
(498229)	16.8	80.42384	118.32735	146.37869	1.76312	0.0259599	3.0539268414099
(498230)	18.4	6.67343	209.44391	115.82108	2.56130	0.2369226	2.2727885414099
(498231)	18.5	343.02190	308.90553	46.40501	3.86472	0.1404650	2.2567718414099
(498232)	17.8	324.50265	137.35707	260.42137	5.78810	0.2173209	3.0011917414099
(498233)	18.0	280.66268	10.34035	42.91854	2.90911	0.1849454	2.3230792414100
(498234)	16.9	4.24170	92.99715	273.63205	0.25910	0.1293447	2.9518324414100
(498235)	18.5	337.69364	327.51285	32.86124	2.70772	0.1426761	2.2816397414100
(498236)	16.5	27.45173	92.44361	232.55267	6.22707	0.0445839	3.0347682414101
(498237)	17.0	324.47209	207.96877	181.90375	0.05568	0.1819394	3.0228600414101
(498238)	16.8	282.83221	23.77743	44.13282	6.50516	0.1062881	3.0597800414101
(498239)	16.6	333.89231	358.99487	41.64837	12.83044	0.0881697	2.9781518414101
(498240)	18.9	335.88431	312.57375	52.45942	2.13430	0.2010140	2.2731253414102
(498241)	16.9	2.60233	334.92424	6.48739	1.48784	0.1648852	2.9986963414102
(498242)	17.0	245.62138	63.09808	27.76270	3.46038	0.0906393	3.0951120414102
(498243)	18.6	287.64530	184.39825	225.55158	6.43627	0.0952525	2.3069439414102
(498244)	18.2	12.25130	95.43720	222.12343	1.89525	0.1931005	2.2883672414102
(498245)	16.3	198.90411	271.93204	223.31127	9.66157	0.0319884	3.1251197414103
(498246)	17.1	284.04918	46.01417	12.25171	0.91975	0.1816270	3.0799429414103
(498247)	16.8	83.58088	316.63604	335.53577	1.32933	0.0343770	2.9555939414103
(498248)	18.3	343.43088	158.88013	211.87400	4.71841	0.1078573	2.2525668414103
(498249)	16.9	331.01577	182.41851	224.17359	8.56930	0.0735090	2.9728172414104
(498250)	16.8	286.28473	25.52035	55.19340	6.84303	0.1308163	3.0470145414104
(498251)	18.4	300.18346	328.81587	59.36620	4.73816	0.1556521	2.3192312414104
(498252)	17.2	301.25735	57.68755	34.77408	1.43354	0.2391648	2.9962837414104
(498253)	16.4	63.48982	50.21537	234.06697	4.49116	0.0927399	3.0351410414105
(498254)	17.8	349.16892	335.57729	60.41702	7.57130	0.1898635	2.2279563414105
(498255)	16.4	299.00098	345.60281	44.93098	11.02014	0.0373149	3.1202624414105
(498256)	16.9	356.45040	88.80612	262.49807	3.91547	0.2625661	2.9945816414105
(498257)	18.4	331.55461	278.47501	114.42858	1.64894	0.1690084	2.2644899414106
(498258)	17.0	287.53127	310.26587	102.51297	2.04253	0.2155005	3.0836269414106
(498259)	16.8	15.33252	115.28891	228.81213	9.13700	0.0741436	3.0006593414106
(498260)	17.0	307.16348	346.80427	71.44765	1.74902	0.2331145	3.0453810414106
(498261)	16.4	297.49050	43.57984	34.79153	10.63514	0.0891329	2.9706293414107

(498262)	16.9	287.25643	169.01049	249.13881	7.26288	0.2187728	3.1127738414107
(498263)	18.2	303.37071	329.01435	86.04317	4.42746	0.1499519	2.2785738414107
(498264)	16.6	319.70963	335.52505	79.77029	3.01823	0.2615896	3.0630938414108
(498265)	17.0	298.71074	186.25683	225.22364	1.68496	0.0916127	3.0103707414108
(498266)	18.0	311.10808	18.65159	27.41681	7.89442	0.1163507	2.2745087414108
(498267)	16.0	304.46311	356.83642	75.39822	11.21538	0.0795583	2.9747163414108
(498268)	16.0	272.06131	159.65201	273.59960	9.80457	0.1966700	3.0881189414109
(498269)	18.1	312.92476	349.62734	46.55891	11.12656	0.2233099	2.2763225414109
(498270)	18.1	304.29648	127.69894	283.61244	2.34941	0.2152080	2.2817220414109
(498271)	18.4	5.44184	340.13158	13.54827	21.69986	0.0388796	1.8535645414110
(498272)	16.6	23.03441	237.75617	113.12690	4.16326	0.0941765	2.9712618414110
(498273)	16.6	295.58815	172.71112	224.56915	8.34767	0.0947735	3.0528620414110
(498274)	18.1	15.43145	112.79019	222.27435	5.72341	0.1132532	2.2469892414110
(498275)	19.1	319.19130	105.79669	291.24155	2.36722	0.2162654	2.2676050414111
(498276)	18.3	258.19706	76.98575	31.67785	6.56435	0.1163938	2.2810905414111
(498277)	18.4	308.83796	354.57666	66.94925	7.60183	0.2207431	2.2728668414111
(498278)	16.7	338.62136	354.49786	21.96540	11.19257	0.1087651	3.0199128414111
(498279)	16.8	341.34294	38.44958	301.73073	4.39636	0.2041170	3.0726445414112
(498280)	18.5	305.07569	68.66491	341.75427	3.69812	0.1437662	2.2825732414112
(498281)	18.0	275.98955	66.77817	12.60495	5.36465	0.1325009	2.2942367414112
(498282)	15.8	16.02066	57.41880	241.79569	14.72159	0.1969628	3.1031762414112
(498283)	16.4	268.28582	191.83370	251.71351	8.90187	0.0887909	3.0757282414113
(498284)	18.4	309.22644	103.31002	299.98532	2.04158	0.2102003	2.2875723414113
(498285)	18.5	257.90086	174.64141	265.09926	2.52023	0.1291237	2.3263962414113
(498286)	17.9	320.71881	90.09338	293.58625	1.32256	0.1719550	2.2956328414113
(498287)	16.7	292.59085	4.44691	68.98711	12.43191	0.0557586	3.0286772414114
(498288)	17.6	137.41115	257.59044	228.76681	19.01633	0.0859380	1.9543134414114
(498289)	18.3	356.29778	310.09305	63.43454	3.98911	0.1907572	2.2415398414114
(498290)	16.7	356.20876	311.14137	56.53652	12.22266	0.1250446	2.9892851414114
(498291)	18.1	159.30804	82.91839	77.36066	2.23760	0.1263272	2.3600982414115
(498292)	17.6	322.83249	310.88431	109.57517	0.32415	0.2240157	2.9939566414115
(498293)	15.8	321.89342	138.05780	264.72510	16.77866	0.2451985	3.0403429414115
(498294)	18.2	329.47683	279.87773	81.91218	4.69815	0.2393505	2.2866127414115
(498295)	18.3	256.28910	182.82235	255.22702	5.18103	0.1253762	2.3255411414116
(498296)	18.4	306.15584	55.70570	332.20929	1.98635	0.2219104	2.2995849414116
(498297)	17.6	310.53807	31.73258	356.40591	5.27799	0.1420997	2.3061111414116
(498298)	16.3	315.06652	149.83307	243.82993	17.10570	0.2672226	3.0625270414117
(498299)	16.7	347.09759	115.78069	244.56853	9.15125	0.1524969	3.0416638414117
(498300)	16.9	5.30266	336.95605	352.38540	1.09268	0.1085379	3.0819242414117
(498301)	16.1	231.31077	220.91722	234.49433	8.06900	0.0700806	3.1673151414118
(498302)	16.8	325.65241	303.58653	63.33368	1.89068	0.1798410	3.0857724414118
(498303)	16.7	323.28831	141.49187	231.88653	8.63392	0.0418777	3.1154744414118
(498304)	16.9	278.96584	65.89793	57.65353	16.92863	0.1602572	2.9770122414118
(498305)	16.7	322.10548	320.84119	63.40702	9.98452	0.1571090	3.0699460414118
(498306)	17.9	282.49556	173.37816	242.22253	6.36288	0.1000389	2.3003702414119
(498307)	18.5	333.99250	163.05578	196.30712	4.85077	0.1443897	2.2915787414119
(498308)	16.9	286.15001	53.53757	29.00162	13.13897	0.1061706	2.9855183414119
(498309)	17.9	106.31590	185.56945	359.91876	1.78447	0.1204782	2.3771533414120
(498310)	16.8	30.57970	119.59430	206.28235	8.68307	0.0280626	3.0324578414120
(498311)	18.4	335.23042	143.98045	226.91883	5.42384	0.1241377	2.2882877414120
(498312)	18.0	245.08978	2.30973	73.32479	7.31756	0.0709169	2.3502671414120
(498313)	16.4	302.87946	145.79674	257.06631	14.00610	0.0713965	3.1108992414120
(498314)	16.8	281.88712	318.68800	129.57375	3.08201	0.0422311	3.0688171414121
(498315)	16.4	334.00555	174.07767	201.88219	6.10916	0.2619882	3.0493605414121
(498316)	17.7	310.88907	322.47023	68.86604	7.36612	0.1238669	2.3070457414121
(498317)	18.3	333.85415	92.00402	301.30787	2.08730	0.1730297	2.2577193414122
(498318)	18.4	3.34638	341.58677	5.78750	3.87320	0.1962087	2.2626423414122
(498319)	16.5	327.93124	285.89490	69.65140	10.71677	0.0945562	3.1304936414122
(498320)	16.3	201.81714	60.70510	79.37676	10.38446	0.0640222	3.1361433414122
(498321)	16.6	344.14174	119.72787	236.64375	13.25820	0.2191528	3.0625651414123
(498322)	17.6	252.50463	50.14699	61.92933	7.23487	0.1375431	2.3057052414123
(498323)	17.9	256.40073	310.21618	63.12312	22.57792	0.0934165	1.9540562414123
(498324)	16.3	311.60919	136.92876	205.66699	10.60295	0.1911334	3.1430259414123
(498325)	17.4	359.39197	245.64138	74.71901	1.73106	0.2442820	3.0331888414124
(498326)	17.8	234.58628	171.39120	295.19500	5.26839	0.1895027	2.3314786414124
(498327)	17.8	316.00872	76.56764	303.18715	1.01800	0.2143099	2.2962608414124
(498328)	18.4	2.94365	111.76835	221.95884	5.67404	0.2398016	2.2646193414124
(498329)	18.7	339.27660	49.40152	314.13235	3.50600	0.1538655	2.2856702414125
(498330)	18.4	334.71944	197.58131	157.18114	3.01651	0.1558600	2.3069507414125
(498331)	17.8	293.35219	12.51496	55.35715	8.41090	0.1493031	2.2671491414125
(498332)	16.0	289.56213	3.59832	94.43093	23.01110	0.2489353	3.0996348414126
(498333)	17.2	331.75298	343.79947	58.36187	1.91602	0.1831610	3.0032814414126
(498334)	18.0	291.03841	139.57188	237.80253	20.80875	0.1022649	1.9090809414126
(498335)	18.0	313.15561	172.14894	228.44965	3.56358	0.1658200	2.2906276414126
(498336)	17.2	302.94152	144.08602	275.63443	3.78502	0.1024848	3.0153542414127
(498337)	16.6	307.32655	1.13880	64.08152	12.26112	0.1561617	3.0366695414127
(498338)	15.8	323.69042	275.60161	96.04329	17.13283	0.2460507	3.0796415414127
(498339)	16.9	287.68797	172.88858	252.33812	4.36845	0.2406929	3.0882290414127
(498340)	16.0	295.93242	204.88903	246.44104	16.93717	0.2637229	3.0134164414127
(498341)	18.4	294.94967	46.03452	13.73887	2.74087	0.1882795	2.2925671414128
(498342)	16.6	295.05185	222.07870	190.41273	9.47461	0.1522769	3.0743103414128
(498343)	16.5	306.67978	223.32418	150.90273	6.26490	0.0695164	3.1345096414128
(498344)	17.9	356.44539	262.43733	81.71569	10.03972	0.4959060	2.9475029414129
(498345)	16.3	253.42136	342.58405	80.74197	5.99008	0.1874437	3.1882367414129
(498346)	16.2	10.73443	58.33886	253.28564	8.82387	0.1239464	3.0847945414129
(498347)	16.6	342.62658	130.31003	244.59644	8.65462	0.0720210	3.0414878414129
(498348)	18.4	342.91159	47.34401	319.84037	2.34657	0.2203209	2.2660522414130
(498349)	16.1	273.63318	320.56858	135.18708	17.89370	0.2228337	3.0574127414130
(498350)	16.7	307.58797	269.13695	134.11478	13.69473	0.2286972	3.0497853414130
(498351)	16.1	300.21889	106.01500	309.98930	6.88747	0.0510858	3.1890417414130
(498352)	18.3	356.45992	90.41653	245.93002	9.83423	0.2162743	2.2965020414131
(498353)	17.9	345.00845	311.92538	66.90570	7.24234	0.1114940	2.2797139414131
(498354)	16.3	309.28301	261.61325	195.10406	12.54814	0.2785174	2.9822602414131
(498355)	16.0	300.36132	7.45023	78.92100	12.79923	0.2121116	3.0649065414131
(498356)	16.2	308.26686	300.01516	74.40090	12.50033	0.1198523	3.1624914414131
(498357)	16.7	312.63280	333.04364	73.97600	8.79955	0.1355061	3.0732754414132
(498358)	16.4	275.49029	6.37289	98.61826	11.50041	0.0753775	3.0119450414132
(498359)	15.5	152.88883	295.00115	249.93839	15.02863	0.0818572	3.2182903414132
(498360)	16.3	40.69892	65.13447	247.83268	15.49476	0.0462219	3.0729021414132
(498361)	16.0	354.18266	91.22058	255.49975	8.30858	0.1069125	3.0596379414133
(498362)	16.6	302.58941	172.17062	253.15614	10.72094	0.1511973	3.0149575414133
(498363)	16.2	337.73995	126.32475	268.04152	9.38995	0.1082299	3.0082124414133
(498364)	16.2	314.98104	144.19064	256.11534	15.90798	0.1199178	3.0462704414133
(498365)	17.6	350.09621	233.02666	127.30904	4.03083	0.2031896	2.2739610414134

(498366)	18.4	311.34863	269.51157	129.61711	3.22020	0.2314920	2.2873515414134
(498367)	16.2	283.55191	170.28882	265.29754	6.84954	0.1597544	3.0779003414134
(498368)	17.0	338.08456	213.42610	171.30834	2.54709	0.1504770	3.0404486414134
(498369)	16.5	286.74992	201.21166	215.63814	7.14235	0.1764548	3.1281035414135
(498370)	16.7	347.17033	254.41429	120.57919	3.47441	0.0970038	3.0411520414135
(498371)	16.3	302.18506	139.72874	311.33525	12.43580	0.1473192	3.1306143414135
(498372)	16.5	295.54874	333.84324	70.22617	10.76055	0.0797421	3.1309630414136
(498373)	16.4	236.62429	193.30243	265.39957	9.11098	0.1166776	3.1340108414136
(498374)	18.1	309.24912	127.73428	278.59584	4.92806	0.0838420	2.2779318414136
(498375)	18.5	298.68883	326.53962	72.52598	3.09180	0.1782767	2.3006816414136
(498376)	16.9	297.99839	27.90203	48.43684	6.29784	0.2112509	3.0502199414136
(498377)	16.3	61.76430	222.51390	66.42303	11.61299	0.0906433	3.0305912414137
(498378)	16.5	313.99636	321.05516	71.97101	10.15833	0.1445465	3.0612111414137
(498379)	16.7	288.63992	331.24596	78.11478	5.88940	0.1629927	3.1016701414137
(498380)	16.7	310.52837	17.17925	27.01875	5.32710	0.2058521	3.0779677414137
(498381)	18.5	357.36247	335.87350	30.92253	7.54522	0.2195089	2.2496287414137
(498382)	16.5	267.54231	108.27443	316.18095	7.95228	0.0844580	3.1306927414138
(498383)	17.4	276.01748	333.14505	128.75682	2.21635	0.1495320	3.0407527414138
(498384)	16.5	276.10024	26.29058	61.24347	13.13137	0.1722789	3.0999062414138
(498385)	16.5	319.18483	313.24129	67.54822	11.06256	0.2470601	3.0625277414138
(498386)	17.9	317.44388	164.68166	240.72311	5.76303	0.1996132	2.2732967414139
(498387)	17.9	260.27127	347.05076	98.60645	4.94013	0.2418645	2.3244429414139
(498388)	16.1	339.45127	282.57769	84.49634	18.06617	0.3142447	3.0847729414139
(498389)	16.8	306.44578	0.04598	55.94317	2.54268	0.1794852	3.0716514414140
(498390)	18.0	198.92599	210.40452	268.17109	17.73648	0.0820609	1.9236959414140
(498391)	16.5	276.95749	282.97311	138.92232	10.19111	0.0900111	3.1657638414140
(498392)	18.1	321.97729	43.15593	350.01654	3.36801	0.1309661	2.2797631414140
(498393)	16.6	274.03730	332.84075	85.01214	6.12557	0.1785541	3.1861422414141
(498394)	17.7	316.85431	306.58716	104.65492	4.61055	0.2057032	2.2714057414141
(498395)	16.9	340.60240	318.86091	55.74227	7.14784	0.1530038	3.0508468414141
(498396)	18.3	294.27122	163.77176	274.12656	2.39112	0.1816381	2.2850920414141
(498397)	17.5	194.33723	356.32747	133.74236	24.04132	0.0495268	1.9645131414142
(498398)	19.0	305.64752	161.41391	254.33562	1.19636	0.1723506	2.3107517414142
(498399)	17.7	302.55122	151.83918	266.79601	5.22473	0.1781977	2.3144430414142
(498400)	18.1	240.78415	58.23442	57.08235	4.03321	0.1361144	2.3228962414142
(498401)	16.7	339.39319	333.68972	58.61339	2.35676	0.1809435	3.0834551414143
(498402)	15.8	249.73260	184.02456	304.07879	14.13121	0.2256750	3.1745739414143
(498403)	18.4	278.09764	352.58173	83.86910	2.44889	0.1669869	2.3457690414143
(498404)	17.8	161.11071	241.27327	301.56477	17.17253	0.0632253	1.9369951414143
(498405)	15.6	304.13903	121.63287	294.20468	15.45970	0.2241718	3.1300010414144
(498406)	16.8	286.15299	142.02880	303.23744	9.36984	0.2539119	3.1267311414144
(498407)	16.3	298.93024	126.78530	293.30302	9.06176	0.2327147	3.1383223414144
(498408)	16.1	307.36539	144.85986	297.38585	19.03696	0.2598933	3.0628485414145
(498409)	16.1	289.41714	136.87220	304.23659	9.08840	0.2052028	3.1253188414145
(498410)	15.9	318.48673	68.92212	316.11311	25.26110	0.2901065	3.1820029414145
(498411)	16.8	81.97009	116.45167	324.07717	11.89536	0.2183728	2.6962292414146
(498412)	15.7	286.24634	130.21408	304.59863	26.50875	0.2144841	3.1233198414146
(498413)	15.8	297.23071	130.75465	311.37302	14.77370	0.2609652	3.1155018414146
(498414)	16.6	351.20687	266.34336	131.06018	11.93398	0.2938522	3.0475851414147
(498415)	16.4	233.49122	357.88588	135.71418	9.45661	0.1016505	3.2266521414147
(498416)	17.6	265.75531	296.39109	134.79749	8.21235	0.0951746	2.3861251414147
(498417)	17.7	329.30562	6.31226	14.86660	1.82793	0.1907889	2.3527423414147
(498418)	17.8	195.68680	8.22614	119.78744	6.56363	0.0731594	2.4376660414148
(498419)	18.0	333.34149	268.28531	117.22015	5.70370	0.1215893	2.3591880414148
(498420)	17.8	281.48718	126.28927	313.06908	7.39467	0.0802434	2.3422259414148
(498421)	18.4	221.03135	216.64618	285.79061	2.65343	0.1811418	2.3660407414148
(498422)	17.1	77.17269	251.66775	311.03998	27.26347	0.3661455	2.5828429414149
(498423)	18.0	252.77377	126.20505	330.30130	5.21245	0.1444940	2.3734068414149
(498424)	17.0	282.21255	332.60687	111.43205	1.68084	0.1646179	3.1348427414149
(498425)	18.0	253.43528	18.54767	106.44990	6.49251	0.1048174	2.3171854414149
(498426)	18.8	270.14623	125.49491	350.07345	1.22042	0.1870786	2.3047596414149
(498427)	17.0	318.42860	155.26599	224.87104	2.04208	0.2145679	3.0722956414150
(498428)	18.4	304.73110	312.25174	115.34688	5.50374	0.2113488	2.3170159414150
(498429)	18.0	272.00025	11.65283	107.20555	4.04289	0.1553849	2.3059809414150
(498430)	18.2	291.64969	133.00664	280.04366	1.58849	0.1925144	2.3557492414151
(498431)	18.5	210.18358	3.28939	170.35294	0.96332	0.1129576	2.3400816414151
(498432)	17.4	277.09009	310.53017	102.37844	8.84688	0.1069900	2.3910013414151
(498433)	18.0	267.00574	328.07865	112.65092	2.25722	0.1388678	2.3589122414151
(498434)	17.7	89.72808	68.46799	119.88586	25.15764	0.0571345	1.9983634414152
(498435)	16.5	326.57799	313.47205	97.31861	9.83126	0.1742247	3.1043433414152
(498436)	18.1	162.88140	162.16830	15.04630	2.32300	0.1529827	2.4024794414152
(498437)	16.3	309.11340	312.67874	94.45491	11.51809	0.1178084	3.1663687414153
(498438)	18.7	303.06661	152.56808	293.64108	2.24995	0.1844521	2.2910988414153
(498439)	18.0	246.68538	192.83662	284.40373	4.53927	0.1884551	2.3539948414153
(498440)	16.5	321.28204	88.85604	311.63127	15.39734	0.3556405	3.1091855414153
(498441)	18.1	38.50990	291.57253	302.84273	3.83604	0.5208662	2.6489691414154
(498442)	17.7	166.90895	18.66356	130.00318	5.35599	0.1471789	2.4515468414154
(498443)	18.1	289.24987	324.33212	135.40452	5.78603	0.1541714	2.2982234414154
(498444)	16.8	340.75982	99.99191	317.07081	14.61732	0.2048184	3.1084015414155
(498445)	16.4	288.60317	134.88369	319.39544	8.77573	0.0507243	3.1465737414155
(498446)	16.4	303.33803	358.41793	92.73806	6.62870	0.1210864	3.1035069414155
(498447)	16.5	296.83308	104.42637	325.58658	14.99355	0.3197962	3.1395510414155
(498448)	15.9	348.65236	57.38583	306.66788	15.86769	0.1006199	3.2032949414156
(498449)	18.2	215.97211	35.73056	127.59091	24.33683	0.0244676	1.8883259414156
(498450)	18.1	246.87611	163.94006	318.38618	0.90720	0.1346297	2.3492135414156
(498451)	17.1	312.48052	284.93347	144.84151	8.33921	0.1813450	3.1221907414156
(498452)	17.1	337.12843	257.21229	141.36100	1.53921	0.1920751	3.1272072414157
(498453)	17.9	289.81442	271.46729	145.41132	2.68986	0.2015801	2.3694164414157
(498454)	18.1	252.31044	311.47833	150.01225	5.09836	0.0775829	2.3861340414157
(498455)	18.0	220.25538	177.78122	314.66714	6.93104	0.1519597	2.3970490414157
(498456)	17.1	178.43601	202.87096	315.52988	24.54754	0.2737731	2.4170007414157
(498457)	18.4	293.20308	274.90708	157.81297	2.09680	0.1506176	2.3329608414158
(498458)	16.5	276.22309	316.81107	156.39338	26.85533	0.1643697	3.1693585414158
(498459)	16.0	188.11666	138.42030	35.47180	5.64582	0.2363633	3.3102425414158
(498460)	18.0	275.40817	109.36510	318.05418	17.76682	0.1014274	1.9295775414158
(498461)	18.2	190.84328	288.72016	231.37142	2.45113	0.1688143	2.3939081414159
(498462)	18.0	221.13126	1.18843	147.07742	5.74776	0.1097654	2.3839242414159
(498463)	17.9	317.17728	16.69468	16.26840	2.56638	0.1886937	2.3512479414159
(498464)	17.8	292.10730	333.07381	101.11363	2.12659	0.2713622	2.3237703414160
(498465)	18.6	257.00414	111.29825	359.58064	2.40307	0.1193336	2.3528431414160
(498466)	18.4	154.01862	113.45859	40.29011	2.15837	0.1274233	2.4747920414160
(498467)	18.0	308.09674	280.70536	137.54981	3.35837	0.1821250	2.3430830414160
(498468)	18.4	214.64407	245.65091	231.61142	3.28008	0.1704656	2.4272080414161
(498469)	18.0	306.34385	5.69703	49.94120	4.18534	0.1841321	2.3671530414161

(498470)	17.9	265.92032	128.23419	312.70227	19.26667	0.0940062	1.9079191414161
(498471)	16.3	221.94850	142.97052	2.82663	12.14152	0.2408812	3.2922227414162
(498472)	18.4	297.74427	196.50550	216.92248	2.20808	0.1955225	2.3514737414162
(498473)	17.9	177.92617	332.50549	198.76498	2.46229	0.1267724	2.4062790414162
(498474)	17.9	226.98601	179.69893	281.04983	5.76445	0.0750923	2.4214004414163
(498475)	18.5	277.23031	295.08545	145.59303	23.97143	0.0945926	1.9127806414163
(498476)	16.1	308.07929	93.16320	304.94186	23.88188	0.2765658	3.1404939414163
(498477)	18.3	305.18660	102.05171	311.29946	1.76095	0.1881639	2.3500653414163
(498478)	18.0	225.76119	84.60938	47.55978	2.91674	0.1520684	2.3804294414164
(498479)	18.2	330.39618	347.78965	50.64794	2.75444	0.2095158	2.2957508414164
(498480)	18.3	282.19756	218.22141	191.66671	4.61032	0.0955244	2.4047108414164
(498481)	17.6	186.92205	96.32351	62.46669	3.34255	0.1365483	2.4262886414165
(498482)	16.7	263.33466	352.30953	133.68533	2.16860	0.1875562	3.1789792414165
(498483)	17.3	347.16278	322.38484	17.70325	4.87622	0.2034801	2.3821087414165
(498484)	16.2	315.49593	270.13992	161.19241	24.69499	0.3944883	3.0842423414165
(498485)	17.8	121.93378	46.96492	162.25706	23.46633	0.0239323	1.9561168414166
(498486)	16.1	320.11875	265.51812	150.69528	26.03697	0.2311941	3.1633192414166
(498487)	17.8	207.51678	0.16004	157.58554	8.29537	0.1550028	2.3839782414166
(498488)	17.9	226.70467	356.64395	151.49453	2.71089	0.1250858	2.3657739414166
(498489)	18.2	197.50595	308.53232	211.01118	0.91139	0.1190489	2.4011209414167
(498490)	18.3	140.25529	328.48962	230.57698	1.45732	0.1271682	2.4369727414167
(498491)	17.9	259.79930	340.88888	81.93231	5.62778	0.1331681	2.3867513414167
(498492)	18.3	308.09699	92.00359	327.53614	20.05042	0.1528926	1.8822658414167
(498493)	17.0	221.03307	33.41471	126.23741	11.93733	0.2248767	2.3836725414168
(498494)	15.3	278.96607	166.11263	285.41637	15.97558	0.2354560	3.1683231414168
(498495)	16.4	253.88251	331.86203	169.33609	11.08876	0.1730716	3.1866659414168
(498496)	17.5	125.04759	228.71971	337.62472	14.32971	0.0276745	2.4444247414169
(498497)	18.2	271.37175	321.56579	112.54161	2.08607	0.1681241	2.3950104414169
(498498)	18.2	218.57315	339.84185	136.47041	25.16509	0.0460897	1.9437393414169
(498499)	17.1	129.25137	27.15457	149.82830	15.08097	0.0743745	2.4853240414169
(498500)	17.8	268.63607	155.74782	284.53572	3.33571	0.1782709	2.3638930414170
(498501)	18.2	277.26138	133.29692	309.70733	2.41023	0.1760107	2.3473834414170
(498502)	17.9	302.28791	258.25491	159.71304	4.95391	0.0970341	2.3863780414170
(498503)	17.1	320.00838	262.60820	161.73938	10.19336	0.3570362	3.0903165414170
(498504)	18.0	271.23042	96.61122	348.16630	10.15179	0.2051537	2.3774003414171
(498505)	16.2	319.01150	261.43618	147.95095	16.58489	0.2628999	3.1455136414171
(498506)	18.0	184.23981	41.50111	141.64436	2.90729	0.1649665	2.4172025414171
(498507)	18.1	308.90631	292.00417	142.53579	7.06027	0.0794538	2.3265263414171
(498508)	16.2	153.16096	278.79635	163.35303	22.00446	0.0633615	2.6379610414172
(498509)	18.3	225.47291	296.55831	209.57113	2.04579	0.1467920	2.3917085414172
(498510)	18.2	217.79530	55.36750	101.94989	4.25582	0.1701557	2.3749819414172
(498511)	16.0	286.17533	86.93479	20.08585	18.08875	0.1641435	3.1767689414172
(498512)	16.5	330.61559	269.10983	156.54368	16.53226	0.2539860	3.1222529414173
(498513)	18.3	252.42671	109.02471	5.87738	1.20245	0.1375490	2.3746815414173
(498514)	18.0	161.11021	4.52977	184.24151	1.28399	0.1402464	2.4564308414173
(498515)	16.8	335.41812	276.22576	149.96620	10.15834	0.4260271	3.0368340414174
(498516)	17.7	205.02218	358.74063	115.34823	5.98216	0.0741757	2.4805268414174
(498517)	17.9	61.96783	198.57114	39.93708	4.05117	0.1725318	2.5652814414174
(498518)	15.8	248.59225	117.60627	356.43728	16.34413	0.0849121	3.3856873414174
(498519)	17.9	211.38119	353.82060	161.42898	23.17189	0.0601966	1.9287750414175
(498520)	15.7	327.46872	55.84144	9.34833	26.57641	0.2548734	3.1975712414175
(498521)	18.4	300.15637	101.78829	347.58478	19.52573	0.1054625	1.8973138414175
(498522)	18.2	84.34808	287.79538	356.52875	19.49862	0.0676305	1.9293907414176
(498523)	18.2	245.66515	345.97275	125.57784	2.30662	0.1369773	2.4147901414176
(498524)	17.6	21.52240	333.71492	268.86314	2.38375	0.1408771	2.6543083414176
(498525)	17.7	207.86246	138.52687	42.20647	5.28217	0.1793746	2.3793763414176
(498526)	17.6	68.79660	40.71431	196.96507	13.50483	0.1084395	2.5610961414177
(498527)	17.5	163.25269	32.19714	186.53231	4.84049	0.0598437	2.4034470414177
(498528)	16.5	299.19253	288.58020	173.01764	13.61070	0.2743549	3.1632386414177
(498529)	16.8	345.54393	338.57178	31.28005	7.00687	0.1299706	2.4774155414177
(498530)	17.7	240.50396	100.18609	40.40516	8.52155	0.0659259	2.4086935414178
(498531)	17.7	61.74500	226.43872	97.63891	6.01988	0.1155946	2.4285321414178
(498532)	17.6	177.79816	31.37496	152.47575	3.16108	0.1629279	2.4667123414178
(498533)	17.5	19.82493	109.50988	140.43938	3.43707	0.0743208	2.6686613414178
(498534)	17.0	39.05541	254.77992	1.56463	12.84784	0.2280471	2.6262019414178
(498535)	17.5	52.84192	224.82597	45.29237	15.40030	0.1146501	2.5711991414179
(498536)	14.3	265.42060	153.05333	87.96966	9.94205	0.0622415	5.2336597414179
(498537)	15.5	131.99952	307.12363	185.20088	8.16743	0.0539058	3.9472569414179
(498538)	17.8	24.50440	142.27649	104.39486	5.48644	0.2222004	2.6736779414179
(498539)	18.4	228.21319	346.73242	156.87199	4.04131	0.1384916	2.4064825414180
(498540)	17.9	42.70767	319.59891	5.94922	21.17806	0.0502827	1.9269773414180
(498541)	18.6	274.41192	77.46968	42.59606	7.03973	0.3405699	2.3297011414180
(498542)	17.7	120.48545	76.47774	101.91405	6.49955	0.0753335	2.5929762414181
(498543)	17.8	92.27084	121.28149	122.71198	4.58362	0.2317256	2.5486995414181
(498544)	17.3	51.29682	51.25359	216.31096	8.68119	0.2520175	2.6056345414181
(498545)	18.3	53.80825	207.69367	53.99164	1.97992	0.1973885	2.5760012414181
(498546)	16.5	44.40260	188.21750	75.99465	13.16462	0.1615243	2.6229000414182
(498547)	18.2	211.90644	335.57375	176.66582	3.41243	0.1125454	2.4332443414182
(498548)	19.8	285.62540	248.64320	205.92233	29.24424	0.2808106	1.2729066414182
(498549)	17.7	43.52138	224.78961	57.56160	5.05559	0.3076677	2.6190221414182
(498550)	19.6	253.57679	249.45761	224.03468	20.81818	0.2779089	1.4264426414183
(498551)	17.6	11.75062	151.04409	102.25346	11.31034	0.1708463	2.7081662414183
(498552)	18.4	174.38917	228.66608	13.06149	1.37892	0.1511980	2.3644788414183
(498553)	18.1	214.77896	322.36452	197.29521	1.90281	0.1558756	2.4228249414184
(498554)	17.1	100.98745	115.83599	126.67620	10.51169	0.1405066	2.5500905414184
(498555)	16.8	47.37901	155.00108	114.63410	8.52744	0.1721438	2.6024176414184
(498556)	17.6	25.98075	173.49878	111.74389	14.88108	0.2345465	2.6518696414184
(498557)	16.8	57.52080	154.61373	98.32545	14.76343	0.2246106	2.6232603414185
(498558)	17.4	58.37053	158.31979	73.59185	15.96746	0.1939413	2.6546044414185
(498559)	17.7	87.82461	150.69463	85.06613	4.54908	0.2656477	2.5801548414185
(498560)	17.7	46.91781	204.27864	80.63297	5.61042	0.2335741	2.6059273414185
(498561)	17.4	4.93914	233.89848	104.97940	12.78330	0.0795719	2.5580604414186
(498562)	18.1	14.65158	95.49466	198.16040	6.82596	0.2719119	2.6738509414186
(498563)	17.2	30.57930	207.36038	86.22652	15.21911	0.2481903	2.6365229414186
(498564)	17.9	33.56953	127.28542	138.50609	5.79149	0.2390313	2.6682733414186
(498565)	17.9	27.90111	163.05330	133.30273	2.52751	0.2688526	2.6331039414187
(498566)	17.8	33.80898	151.56796	165.60525	5.40642	0.1222099	2.5563526414187
(498567)	17.2	29.03711	164.74302	128.77282	15.47855	0.1654452	2.6226396414187
(498568)	17.9	69.28706	160.26348	76.48933	5.98170	0.1727810	2.6194007414187
(498569)	18.0	40.47781	102.92695	153.09316	6.33960	0.1977804	2.6443657414187
(498570)	17.5	63.34630	169.59920	76.04635	6.58729	0.0840082	2.6136965414188
(498571)	17.3	23.02461	80.04165	227.43609	12.32853	0.2998827	2.6387725414188
(498572)	17.3	48.87984	189.25485	92.04684	15.83837	0.0884507	2.5903606414188
(498573)	17.7	72.11648	130.01557	151.49195	12.51471	0.1682793	2.5517987414188

(498574)	17.7	103.25108	101.06818	111.54826	4.72781	0.1040730	2.5988186414188
(498575)	17.3	28.55496	138.47344	208.25360	14.80633	0.2153260	2.5397568414189
(498576)	17.4	63.92550	91.77382	99.08274	4.76838	0.2096149	2.7063241414189
(498577)	17.5	9.07760	95.93257	214.82245	6.60215	0.3104537	2.7212410414189
(498578)	16.5	93.93457	323.84070	307.19382	8.06574	0.0443944	2.6069507414189
(498579)	15.9	104.92466	123.48155	133.31140	28.03120	0.1157645	2.6097420414190
(498580)	16.6	347.06927	83.46528	293.81855	9.93698	0.2281505	2.6853246414190
(498581)	15.9	31.59208	29.99466	278.63525	11.70709	0.1411728	2.7215021414191
(498582)	17.3	3.24891	176.84395	190.42832	3.49228	0.3088927	2.6875535414191
(498583)	17.0	331.32325	12.54949	338.96992	12.10036	0.1693031	2.7698863414191
(498584)	17.6	24.20046	181.93926	153.53319	6.02314	0.0833811	2.6746031414192
(498585)	15.9	311.21526	167.56610	235.57685	12.99453	0.1340790	2.7575155414192
(498586)	17.0	35.52372	134.98073	190.20355	11.59631	0.3231671	2.6600218414192
(498587)	16.4	29.53283	317.34835	348.71437	12.16820	0.1718776	2.7105347414193
(498588)	16.7	311.75156	110.23184	290.41099	8.26745	0.2286820	2.7477857414193
(498589)	16.9	0.01269	174.25380	149.20269	14.79307	0.1908268	2.7470936414193
(498590)	17.6	27.12180	321.40908	12.97342	2.17917	0.2034516	2.6861279414194
(498591)	16.6	332.94694	34.05762	344.66766	14.46020	0.0993380	2.7049267414194
(498592)	16.5	3.20088	19.86654	300.86030	13.39352	0.1811427	2.7879558414194
(498593)	17.0	338.61096	149.50895	218.66465	6.84148	0.2431476	2.7448364414194
(498594)	16.2	288.88500	84.43109	324.30873	23.74654	0.2072572	2.7550755414195
(498595)	17.4	32.49301	288.93606	12.76075	18.66325	0.3702725	2.6862191414195
(498596)	17.2	298.47499	217.71099	204.31062	7.34370	0.2152054	2.7811088414195
(498597)	17.6	33.25196	93.31856	197.64576	1.51043	0.2013856	2.7518122414195
(498598)	17.3	9.88370	343.06795	355.93283	5.07247	0.1688359	2.7278140414196
(498599)	16.5	358.76159	57.59241	353.04908	28.49376	0.2291717	2.6359532414196
(498600)	17.5	327.00252	33.16057	329.96714	3.10788	0.1109085	2.7959320414196
(498601)	17.4	306.44525	204.88467	179.07289	4.37894	0.0814801	2.8020955414196
(498602)	17.2	335.39157	187.02543	171.96196	4.13446	0.1635376	2.7898122414197
(498603)	17.1	75.95517	236.85730	15.46172	4.46456	0.0109874	2.8044468414197
(498604)	17.3	354.89237	173.39542	195.95611	2.19654	0.0937661	2.7313966414197
(498605)	16.2	344.65795	30.64682	337.50969	15.51788	0.0753997	2.6918005414197
(498606)	17.4	20.89419	175.60606	164.07702	3.93976	0.1433486	2.7004017414198
(498607)	17.3	3.97175	310.99727	0.20229	8.81945	0.1574031	2.7929003414198
(498608)	17.1	2.82820	338.36992	0.59410	13.67501	0.1841727	2.7383495414198
(498609)	16.3	8.61338	76.83374	233.37300	3.00930	0.0877673	2.7732322414199
(498610)	17.8	335.72320	110.72044	253.20246	2.44252	0.2153972	2.7550371414199
(498611)	17.5	18.30826	107.48260	225.95210	3.69373	0.0928254	2.6941644414199
(498612)	17.3	331.99915	191.82474	196.78102	4.34112	0.1273149	2.7603285414199
(498613)	16.9	328.04068	86.04602	286.65733	5.43336	0.0752681	2.7917952414200
(498614)	17.3	347.46077	237.00516	157.39869	4.74312	0.0880939	2.6824592414200
(498615)	17.6	339.96716	207.39841	188.30113	5.22089	0.1278568	2.7021422414200
(498616)	14.3	261.71382	76.85197	305.80679	7.77951	0.1096716	5.1921880414200
(498617)	16.9	7.75619	79.17854	260.25359	4.56797	0.0642583	2.7638968414200
(498618)	17.0	344.01704	8.37570	30.28418	10.23850	0.2740814	2.7436001414201
(498619)	17.1	351.86926	201.13111	146.36178	4.23457	0.1133508	2.7853895414201
(498620)	17.0	293.24984	234.23651	160.25514	6.73201	0.1029446	2.8433531414201
(498621)	17.1	313.71991	230.50500	132.79837	2.98803	0.0796270	2.8513016414201
(498622)	16.7	15.72480	193.53610	141.43535	10.71757	0.2974315	2.7178756414202
(498623)	17.0	325.03455	42.83373	321.84977	8.54321	0.0476456	2.8145659414202
(498624)	16.7	327.93683	199.50126	206.02510	12.72576	0.1739496	2.7267764414202
(498625)	17.5	309.43891	212.05794	185.54667	4.61811	0.0834752	2.7665403414202
(498626)	16.8	18.95309	124.09728	173.60241	6.93796	0.0736293	2.7794137414203
(498627)	17.3	342.20229	24.67218	356.62999	7.22661	0.1143148	2.7476914414203
(498628)	16.7	282.39663	111.53106	338.72743	21.66051	0.0655766	2.6635485414203
(498629)	16.4	300.73202	15.01703	74.61083	11.92255	0.2959854	2.7431252414203
(498630)	16.7	7.35824	214.26580	152.93204	14.51604	0.2695856	2.6889313414204
(498631)	17.3	331.40134	253.62985	129.14982	3.74588	0.2146719	2.7617440414204
(498632)	17.4	332.09013	42.10795	331.91005	0.79889	0.2430968	2.7637354414204
(498633)	17.0	342.42747	211.78569	178.35368	9.63121	0.1088841	2.7033805414204
(498634)	17.3	332.77400	303.74563	56.30041	2.76773	0.2558659	2.7689432414205
(498635)	16.8	23.66837	352.17446	324.98689	13.13461	0.2018718	2.7262596414205
(498636)	17.2	294.77611	254.30618	177.11734	9.13901	0.0962678	2.7405089414205
(498637)	16.8	314.43741	169.94414	233.20270	12.33877	0.1119512	2.7591309414205
(498638)	17.1	354.75631	171.55963	202.64627	4.58005	0.1563658	2.6900017414206
(498639)	16.8	4.88319	332.67202	333.03654	6.77241	0.1372395	2.7705421414206
(498640)	16.4	312.39857	89.81988	355.32978	16.91171	0.2405993	2.6761267414206
(498641)	16.2	340.30283	26.73062	350.30417	12.00822	0.1399579	2.7558340414207
(498642)	17.4	0.26162	182.83451	161.29360	5.22386	0.1229814	2.7067421414207
(498643)	17.6	45.55981	141.94013	170.12041	4.66541	0.1865156	2.6585526414207
(498644)	16.5	13.61623	353.72002	13.77889	19.15117	0.2450284	2.6908330414207
(498645)	17.0	325.19202	183.62615	200.72536	8.74028	0.1544028	2.7928494414208
(498646)	17.1	289.43023	213.26948	210.52435	2.82606	0.0833483	2.7594118414208
(498647)	17.2	261.28973	185.66297	262.61068	3.11041	0.0335778	2.7709555414208
(498648)	17.1	7.41679	314.08753	30.27800	4.71615	0.0774883	2.7848661414209
(498649)	17.0	344.18202	283.94659	96.81655	5.53101	0.0891459	2.7529838414209
(498650)	16.7	291.33150	87.92811	11.59012	14.12702	0.1710114	2.7215728414209
(498651)	17.4	331.79197	37.52540	325.61850	5.72256	0.0477959	2.8075308414210
(498652)	17.2	9.73795	45.58456	297.82116	3.83912	0.1236836	2.7429057414210
(498653)	17.1	329.73442	34.24164	343.61783	4.24494	0.1645368	2.7835531414210
(498654)	16.6	309.23269	29.34376	45.65443	10.66061	0.1007027	2.7297716414210
(498655)	16.8	340.26403	236.00748	153.39472	5.68629	0.1243604	2.7485522414210
(498656)	17.2	0.81764	344.00018	24.56077	17.20450	0.3095897	2.7273974414211
(498657)	17.0	339.69865	231.91249	152.23436	5.05421	0.0891560	2.7499593414211
(498658)	16.7	315.01963	259.91035	185.13831	21.88367	0.0504825	2.6723130414211
(498659)	17.1	327.14281	28.00522	15.05561	6.73861	0.0373586	2.7527094414212
(498660)	16.9	331.10692	49.72851	7.22908	5.20810	0.0426287	2.7045095414212
(498661)	17.7	345.18154	158.17412	220.13788	2.85714	0.1146661	2.7566220414212
(498662)	16.4	323.64624	158.48755	243.96758	12.12055	0.1700200	2.7428086414212
(498663)	16.8	33.02067	80.68804	239.99832	5.48315	0.0312430	2.7941330414213
(498664)	17.8	345.17912	168.55076	217.94767	4.12033	0.4218696	2.7415605414213
(498665)	16.8	37.42481	221.19085	117.31484	4.27340	0.0937936	2.7251005414213
(498666)	16.8	286.73234	28.93241	6.05538	5.95708	0.0717799	2.8691145414214
(498667)	17.1	286.74464	201.92166	230.50661	8.12044	0.1887989	2.7983048414214
(498668)	17.2	27.37510	358.02486	322.76425	4.13315	0.1564244	2.7344872414214
(498669)	16.5	331.55899	35.95712	15.03586	14.46178	0.1892768	2.7124784414215
(498670)	16.9	19.14659	349.49401	304.03583	5.07146	0.0174179	2.8306794414215
(498671)	17.6	300.60374	160.59984	256.31590	3.70761	0.0672956	2.7342570414215
(498672)	16.8	334.88542	182.66912	209.61853	14.70628	0.2015761	2.7361764414215
(498673)	17.1	14.59623	249.18906	64.69477	3.04209	0.0524507	2.8681545414216
(498674)	16.0	294.03157	79.84520	5.75095	14.24980	0.0722341	2.7513760414216
(498675)	16.6	111.67091	229.22025	7.98383	13.53362	0.0450345	2.7862524414216
(498676)	17.7	322.70244	72.71027	320.24393	2.60022	0.1058524	2.7802014414216
(498677)	17.3	349.65015	177.09350	204.65393	18.45369	0.4714339	2.7105657414217

(498678)	17.3	295.44549	176.22890	260.43967	3.21490	0.2017535	2.7531667414217
(498679)	17.4	357.06081	45.87688	299.29357	5.13933	0.0620072	2.7662639414217
(498680)	16.6	10.76846	324.44654	27.35018	14.62354	0.1182779	2.7539797414218
(498681)	17.0	327.42598	27.96093	30.18667	15.78585	0.1492782	2.7362415414218
(498682)	17.4	38.05607	336.93327	336.55446	3.28389	0.0887079	2.7782129414218
(498683)	16.8	278.65451	43.22011	39.24906	5.60855	0.1431240	2.8052654414218
(498684)	17.2	23.70371	347.53524	346.78322	3.54704	0.0692368	2.7660779414219
(498685)	17.3	320.11108	36.16767	17.63191	6.11292	0.0273123	2.7155031414219
(498686)	17.2	285.77817	251.57347	154.22320	2.50601	0.0813180	2.8308262414219
(498687)	17.0	324.77725	176.52844	226.62199	9.51585	0.1271943	2.8028810414219
(498688)	17.0	41.20646	293.07745	30.14744	12.18546	0.1952415	2.6949305414220
(498689)	17.0	356.96529	330.50118	55.78776	5.24344	0.0805033	2.7708425414220
(498690)	17.4	315.35793	284.49883	96.87989	4.73738	0.1088868	2.8069212414220
(498691)	14.4	221.64044	225.67830	199.44455	6.12686	0.1048332	5.2292378414220
(498692)	16.9	322.85680	340.30706	59.19782	3.68676	0.1837984	2.7783932414220
(498693)	16.3	99.67624	227.33775	32.61547	14.40255	0.0882380	2.7756718414221
(498694)	16.9	19.98627	197.40676	160.75891	8.66650	0.2333575	2.6979011414221
(498695)	16.4	285.51879	85.65976	348.14214	12.03059	0.0908742	2.7605920414221
(498696)	16.9	23.93115	302.38246	14.41992	7.07358	0.1637163	2.7492479414221
(498697)	16.6	341.57662	213.72176	157.21034	8.86731	0.2014665	2.7818310414222
(498698)	17.1	13.18603	301.77294	42.43116	8.26549	0.2418868	2.7285934414222
(498699)	15.9	244.39757	304.24964	99.16846	23.14745	0.1926781	3.0572468414222
(498700)	17.0	328.37472	280.65037	79.84663	8.61561	0.2439594	2.8046930414223
(498701)	17.2	256.53430	274.88705	190.52921	12.75714	0.1494757	2.7687739414223
(498702)	16.7	283.75696	145.65032	216.37189	10.20937	0.1094638	3.0009901414223
(498703)	16.9	321.22301	190.25998	207.04216	8.51171	0.2178578	2.7349244414223
(498704)	19.0	329.09756	130.10245	236.50130	1.85089	0.1121339	2.1327082414224
(498705)	17.1	23.13089	2.05018	302.71595	4.07322	0.1399254	2.7801494414224
(498706)	17.4	346.31313	12.70226	12.20272	2.92826	0.1490242	2.7020540414224
(498707)	17.6	322.74094	351.26658	22.32092	1.96405	0.0816728	2.8304379414224
(498708)	17.0	57.51426	253.24345	19.40543	9.35563	0.1238437	2.7835285414225
(498709)	17.3	22.26026	305.33980	28.28316	6.29804	0.0332110	2.7532928414225
(498710)	17.2	0.45160	51.01245	275.61400	2.16687	0.2365674	2.7866310414225
(498711)	16.9	25.40236	343.27840	4.65094	2.07391	0.0971790	2.7076835414225
(498712)	16.8	328.05041	183.62187	185.74620	12.84858	0.0693832	2.8297150414226
(498713)	18.8	304.04385	217.62116	167.91538	1.82465	0.1431630	2.1418106414226
(498714)	16.9	46.26855	304.87512	18.36175	14.18025	0.1285587	2.6902778414226
(498715)	17.3	8.74799	93.81065	233.60304	4.02897	0.0700448	2.8174397414226
(498716)	17.1	335.98947	358.97831	9.10695	5.36870	0.0638132	2.8079979414227
(498717)	17.3	54.89272	11.08957	285.75983	1.74233	0.0913213	2.7663391414227
(498718)	17.5	24.28287	7.82975	326.93902	1.61191	0.1043338	2.7453217414227
(498719)	17.2	41.58421	216.42085	80.87873	5.11551	0.0784427	2.7850808414227
(498720)	17.4	326.97732	220.38786	154.05485	5.22242	0.0914090	2.7926234414227
(498721)	17.0	5.07463	198.15815	131.20451	5.38411	0.2057904	2.7750025414228
(498722)	16.6	43.21507	52.25258	269.61416	6.15350	0.2000153	2.6980379414228
(498723)	17.0	303.07087	313.70245	89.94235	3.20355	0.0685008	2.8291062414228
(498724)	17.2	354.49664	290.81373	82.67487	5.32958	0.0872728	2.7565512414229
(498725)	16.8	333.79030	149.21681	227.51848	12.95989	0.2029519	2.7809384414229
(498726)	17.2	326.11688	168.49852	238.80315	7.09950	0.2806124	2.7598781414229
(498727)	17.3	335.63566	175.36613	210.10103	5.81007	0.0621932	2.7342485414229
(498728)	16.7	348.03436	16.64500	351.16086	4.97163	0.0928854	2.7650369414230
(498729)	16.8	15.43886	40.87601	284.60394	3.31935	0.0683883	2.7872638414230
(498730)	17.1	347.52920	47.34642	324.03098	6.06751	0.0637485	2.7519951414230
(498731)	17.1	47.04358	348.79632	320.61234	5.37277	0.0468344	2.7487018414230
(498732)	17.3	352.36035	358.13533	356.00916	3.39968	0.1269299	2.7979630414231
(498733)	17.0	322.21592	5.92931	359.71566	1.77161	0.0830936	2.8649088414231
(498734)	16.9	309.66606	54.53833	358.44805	6.40528	0.0382986	2.7779908414231
(498735)	16.9	334.11415	58.74343	324.27716	2.67730	0.1061858	2.7826937414231
(498736)	16.8	337.49874	6.46063	19.80393	18.21515	0.2589317	2.7455448414232
(498737)	17.4	300.20786	13.71813	45.60909	4.92369	0.0582192	2.7560092414232
(498738)	17.1	15.94942	195.80607	134.99829	3.37702	0.2079768	2.7356360414232
(498739)	16.9	5.51980	352.96084	25.50999	15.12948	0.1335492	2.6834243414232
(498740)	17.5	336.33555	352.54090	15.66061	2.01175	0.1017442	2.8325644414233
(498741)	17.1	258.90955	295.99814	173.87925	4.40610	0.0220002	2.7773850414233
(498742)	17.7	34.68109	95.56135	204.17147	6.80780	0.2104587	2.7419289414233
(498743)	17.5	318.28515	330.21363	84.85218	4.07749	0.0855146	2.7579483414233
(498744)	16.5	314.11482	23.16796	33.43649	12.63736	0.0570330	2.7364965414233
(498745)	17.7	311.14720	119.13628	260.83872	0.93867	0.0810728	2.8623325414234
(498746)	17.8	316.48338	339.22799	84.93021	3.87866	0.2671057	2.7776238414234
(498747)	17.1	50.65073	288.51922	33.12908	5.47799	0.0670336	2.7380618414234
(498748)	16.6	337.36499	359.08281	48.51796	12.13170	0.1092577	2.6950247414234
(498749)	17.2	335.70654	157.44374	194.19755	4.80344	0.0699606	2.8492353414235
(498750)	16.5	16.81317	310.55778	38.24505	27.52040	0.2538103	2.7157473414235
(498751)	16.7	289.63764	96.87659	347.44770	12.26062	0.1760623	2.7664467414235
(498752)	17.2	324.99901	273.92113	122.96246	4.55707	0.1012027	2.7778146414235
(498753)	17.2	27.18095	303.47897	27.27873	1.50418	0.1203346	2.7146172414236
(498754)	17.4	338.68389	45.03970	318.72653	2.80461	0.1092310	2.7812906414236
(498755)	17.4	332.35655	144.97496	234.82713	3.84905	0.0855308	2.7651063414236
(498756)	17.1	1.19373	131.66431	232.69526	4.79744	0.0972608	2.7241220414236
(498757)	17.5	314.39370	199.69895	211.71382	5.89951	0.0732001	2.7411275414237
(498758)	17.5	309.74768	90.05611	346.96294	3.11821	0.2062787	2.7287542414237
(498759)	17.3	0.62558	91.46708	278.70705	2.88129	0.1099876	2.7181450414237
(498760)	17.2	48.32833	244.18798	74.00542	2.96615	0.0647096	2.7120517414237
(498761)	18.8	8.36407	146.57417	181.73740	3.83776	0.2363154	2.1095992414238
(498762)	17.3	6.16861	169.22805	188.63798	5.75577	0.0977381	2.7786680414238
(498763)	17.4	335.72018	3.46818	34.81612	10.83866	0.1381393	2.7762907414238
(498764)	17.1	3.33420	333.60607	29.24414	4.73416	0.0823473	2.7848110414238
(498765)	18.4	313.60045	194.54002	50.50571	23.21068	0.0370066	1.8885712414239
(498766)	17.0	338.72226	159.89753	222.97851	5.66110	0.1520004	2.8154486414239
(498767)	17.0	9.47570	316.83470	13.35993	7.95516	0.2241851	2.7960472414239
(498768)	17.3	314.28386	308.12758	121.65871	5.95750	0.0964884	2.7250221414239
(498769)	17.2	331.45078	345.38498	40.53911	6.91880	0.0785686	2.7690638414240
(498770)	16.8	284.17070	65.56388	49.90639	12.72540	0.1059193	2.6875410414240
(498771)	17.4	22.45320	60.31150	274.97250	2.50638	0.1005923	2.7730683414240
(498772)	18.5	90.41394	255.02641	190.32379	1.79592	0.1778721	2.4076739414240
(498773)	16.9	3.73661	164.84347	169.09730	9.77859	0.2893693	2.7710664414241
(498774)	16.3	328.56115	351.07561	67.84677	18.20271	0.2119766	2.7569959414241
(498775)	16.7	354.37712	346.50591	35.45123	12.18926	0.1406473	2.7761908414241
(498776)	16.3	91.49772	221.74009	13.80640	9.91987	0.0336747	2.9085699414242
(498777)	17.5	317.66985	26.16527	346.47401	1.42332	0.0823846	2.8664023414242
(498778)	17.4	309.15953	181.81548	205.96384	1.46823	0.0788039	2.8633239414242
(498779)	17.1	305.17045	35.21771	47.03977	5.65220	0.1314717	2.7659700414242
(498780)	17.2	15.80529	141.45508	205.38018	2.84461	0.1843642	2.7662697414243
(498781)	17.0	343.43135	160.96271	215.92506	7.27328	0.2327582	2.7811563414243

(498782)	16.4	270.83360	69.93079	36.27249	25.70285	0.0720252	2.7560551414243
(498783)	16.5	27.68456	105.92926	238.70627	5.28067	0.0353688	2.7952404414243
(498784)	17.1	58.08032	115.66107	185.59122	3.08750	0.0686494	2.7673148414244
(498785)	16.6	9.45007	306.16090	51.05217	14.29435	0.2293652	2.7568408414244
(498786)	16.7	273.46664	82.23588	24.98292	13.21252	0.1753550	2.7888447414244
(498787)	17.0	214.54026	38.91798	87.41754	3.24334	0.0203056	2.8682039414244
(498788)	17.3	342.53233	197.99615	148.38830	2.84693	0.0953896	2.8746269414245
(498789)	18.8	271.76311	177.26596	250.80394	3.75708	0.0406751	2.1467832414245
(498790)	17.2	353.06765	309.42586	35.88270	2.34555	0.0746965	2.8638007414245
(498791)	17.4	325.10116	314.71420	60.32193	3.15418	0.0767946	2.8384098414245
(498792)	16.6	268.10251	342.17489	90.19967	3.21289	0.0414302	2.8534878414245
(498793)	16.9	23.97577	334.27113	7.31682	8.87825	0.2145084	2.7331429414246
(498794)	16.4	306.91866	223.08434	159.35950	9.72694	0.1424422	2.8506612414246
(498795)	17.5	307.12012	19.49919	29.83302	2.30943	0.1188924	2.8136891414246
(498796)	17.2	321.56060	14.39102	30.62059	5.53137	0.0764372	2.7834124414247
(498797)	16.9	325.84185	316.81917	91.35963	5.46158	0.2062752	2.7781388414247
(498798)	16.0	249.14718	122.41777	261.88086	11.01006	0.0892455	3.0907126414247
(498799)	17.2	13.84246	320.16457	43.95094	5.94427	0.1287417	2.7422198414247
(498800)	17.0	338.79061	303.70158	68.78634	7.36312	0.0938400	2.8187998414247
(498801)	17.1	5.74461	129.57088	191.10779	5.60896	0.0545857	2.8879863414248
(498802)	17.3	340.19100	8.03845	9.36053	4.21976	0.0817748	2.8018859414248
(498803)	17.1	7.89250	254.37895	76.12376	2.95378	0.0687376	2.8484128414248
(498804)	17.5	288.83389	350.49613	55.07829	2.86900	0.0689231	2.8688311414248
(498805)	16.9	328.11338	350.37639	53.27324	5.91966	0.1644677	2.7690726414249
(498806)	16.8	330.22575	348.08671	44.29316	9.92117	0.0905732	2.7884852414249
(498807)	17.3	308.34894	288.49187	89.67953	3.15594	0.0844329	2.8812912414249
(498808)	16.7	256.25353	192.84306	276.57864	9.20376	0.0777979	2.8312713414249
(498809)	17.2	348.95613	28.70882	336.68279	5.90943	0.0732561	2.7825619414250
(498810)	16.9	0.24666	314.63977	24.61797	13.75064	0.3247993	2.7828183414250
(498811)	16.5	314.70437	112.60172	299.58263	7.97494	0.1599402	2.7736486414250
(498812)	17.1	332.63690	124.49312	248.75782	6.58534	0.2361303	2.7809498414250
(498813)	17.1	1.98876	350.01366	351.69670	1.58022	0.2478646	2.7815146414251
(498814)	17.2	337.36442	119.00315	248.41974	7.95706	0.2554310	2.8030484414251
(498815)	16.9	279.56139	181.49621	225.69332	6.92694	0.0829628	2.9167685414251
(498816)	17.3	305.24890	252.67552	161.27260	4.73239	0.0707142	2.8066609414251
(498817)	17.4	335.34479	64.63063	342.10499	3.33989	0.1048161	2.7734982414252
(498818)	16.4	293.57208	93.29546	252.68563	9.03511	0.1203313	2.9928403414252
(498819)	18.0	212.17048	199.80055	269.33668	7.47330	0.1057498	2.1929204414252
(498820)	16.8	332.46203	98.02619	303.67962	12.10541	0.2106074	2.7461682414252
(498821)	16.7	7.67022	200.68858	126.37905	10.68225	0.2853979	2.7874236414253
(498822)	16.8	353.25650	130.47945	230.23833	8.94562	0.1842258	2.7673916414253
(498823)	17.5	297.06898	244.20232	155.85246	2.39913	0.0710786	2.8577546414253
(498824)	17.2	22.29898	169.58284	140.34051	2.79864	0.0507045	2.8740828414253
(498825)	17.0	329.87068	303.19735	103.35646	4.12127	0.0720477	2.8104262414254
(498826)	17.0	353.96060	293.25641	95.03524	6.24018	0.1389509	2.7733210414254
(498827)	17.2	336.91242	31.58543	338.06803	1.32469	0.0831770	2.8667921414254
(498828)	16.4	3.83504	285.79539	62.42682	20.69684	0.2609877	2.8014176414254
(498829)	16.2	197.91317	57.24424	107.51500	11.32603	0.0456271	2.9970968414255
(498830)	17.0	350.45112	258.16428	108.24970	3.97943	0.2340120	2.7766894414255
(498831)	17.0	5.38605	302.45299	52.86698	7.13137	0.0403116	2.7858460414255
(498832)	16.7	39.83766	271.51645	52.57415	13.45275	0.1273079	2.7459771414255
(498833)	17.2	354.68105	337.91682	41.81294	6.10488	0.0275695	2.7513772414256
(498834)	17.6	327.17267	13.29430	49.69670	2.42631	0.1996907	2.7521243414256
(498835)	17.3	320.01315	123.54065	264.56709	6.83213	0.0929468	2.8898300414256
(498836)	17.0	342.19372	150.04188	220.19609	1.32412	0.0797423	2.8465036414256
(498837)	17.0	343.42140	134.59463	216.73109	1.26638	0.0808545	2.8938050414257
(498838)	16.5	110.44551	6.08982	207.56678	1.29672	0.1405492	2.9800567414257
(498839)	17.3	0.65439	270.77190	47.64121	9.83990	0.1230352	2.8827020414257
(498840)	16.4	323.67430	342.38616	85.98757	10.13043	0.1812103	2.7699275414257
(498841)	16.9	300.91649	309.72378	92.44576	4.49234	0.1490833	2.8830348414258
(498842)	17.0	295.75287	227.25987	212.60468	4.88533	0.0356230	2.8126122414258
(498843)	17.3	339.89825	228.08044	139.19993	2.86394	0.0710018	2.8714652414258
(498844)	16.1	242.19155	147.85048	244.06332	20.77010	0.1132241	3.1102239414258
(498845)	16.5	168.15014	145.10488	67.55977	10.37212	0.0527420	2.7708142414259
(498846)	17.2	7.02520	277.61482	76.13113	5.40142	0.0829356	2.7986209414259
(498847)	16.2	1.89636	259.79166	82.95307	10.56538	0.0306485	2.9722393414259
(498848)	15.4	135.49263	276.05308	275.34052	14.67073	0.1561969	3.1145902414259
(498849)	15.9	1.81970	90.83425	270.14807	23.56239	0.1883975	2.7965502414260
(498850)	16.8	337.64690	61.14559	335.83737	4.78549	0.0097092	2.8051680414260
(498851)	16.9	318.22093	300.38826	118.57963	3.07715	0.0641525	2.8777079414260
(498852)	17.0	51.36516	276.55590	43.21347	4.19662	0.0936399	2.8032535414260
(498853)	17.0	311.58182	122.05577	276.23936	6.42875	0.0974653	2.8811012414261
(498854)	17.1	298.91118	97.05598	315.18668	15.19011	0.2258844	2.9860471414261
(498855)	17.1	262.11058	11.91782	118.30459	6.40488	0.2467427	2.8943258414261
(498856)	16.8	344.12025	304.36998	84.30766	11.48856	0.3501915	2.7832665414261
(498857)	16.4	279.71934	298.52449	120.59288	10.82475	0.1000299	3.0379869414262
(498858)	16.3	205.51446	23.18385	111.84874	11.05094	0.0733216	3.0840888414262
(498859)	16.3	106.74164	285.76651	265.37321	8.87057	0.1120476	3.1201437414262
(498860)	17.5	345.37782	317.01942	86.10139	5.25366	0.1048846	2.7781836414262
(498861)	16.3	209.32265	155.41040	313.38347	6.09549	0.1330711	3.1102913414262
(498862)	18.3	178.96762	40.77356	96.04286	5.98051	0.1340385	2.2697520414263
(498863)	16.4	236.02376	137.02203	316.59782	8.06557	0.1309461	3.0884603414263
(498864)	16.2	133.28438	235.76583	318.08960	15.04859	0.0706332	3.1664244414263
(498865)	16.8	92.67605	274.03488	299.85498	10.27987	0.0338258	3.1563233414263
(498866)	16.5	276.66957	340.17371	82.58907	6.31116	0.2253413	2.9798755414264
(498867)	18.4	253.38786	350.17663	89.68565	6.16466	0.1161872	2.2142377414264
(498868)	16.6	98.18281	259.66815	303.79355	8.42032	0.0459432	3.1840541414264
(498869)	16.9	329.18806	305.32844	100.71027	16.02752	0.1393230	2.8593120414264
(498870)	16.5	320.38215	281.64603	108.46822	11.18176	0.0327112	2.9773346414264
(498871)	16.2	261.44652	354.08207	101.00829	11.16562	0.1152389	2.9688402414265
(498872)	16.2	145.51533	225.99656	289.18882	10.22565	0.0596532	3.1927022414265
(498873)	16.2	337.71961	220.78256	116.28380	19.14731	0.0680178	3.1429244414265
(498874)	16.5	212.77327	194.83192	289.65370	10.50100	0.1064722	3.0666998414265
(498875)	17.9	77.15778	113.28189	115.33563	8.89373	0.1794559	2.3035480414266
(498876)	16.7	257.16839	322.46971	114.61205	6.99831	0.1315051	3.0436718414266
(498877)	16.7	208.20933	14.40517	120.89512	10.23436	0.0953485	3.0526254414266
(498878)	16.4	250.89041	134.87332	288.55225	7.96610	0.0905660	3.1177282414267
(498879)	16.3	169.99416	236.12581	300.33526	12.53479	0.0467985	3.0710799414267
(498880)	16.6	247.79157	328.22339	115.20452	10.13120	0.0962565	3.0901767414267
(498881)	16.0	25.85498	7.50113	295.32348	19.22833	0.1045403	3.0787139414267
(498882)	17.0	252.16092	355.87993	84.51179	2.93867	0.1772098	3.0270071414267
(498883)	16.5	207.95635	20.46868	111.76658	12.30589	0.0594749	3.0672170414268
(498884)	16.4	169.48671	203.84812	303.02743	10.25538	0.0413094	3.1186327414268
(498885)	16.8	291.14333	285.70537	126.80711	7.07690	0.1553274	2.9748103414268

(498886)	16.7	262.00650	155.57391	273.89264	5.63602	0.1249836	3.0386741414268
(498887)	16.2	42.18593	341.13231	302.21788	11.26901	0.0958927	3.1232870414269
(498888)	16.5	269.05097	119.04779	318.44473	6.53094	0.0612393	3.0259342414269
(498889)	17.7	175.59734	208.42061	312.13788	6.07487	0.0899482	2.2300878414269
(498890)	16.4	198.62103	346.44976	130.06931	11.86763	0.0379804	3.1573967414270
(498891)	16.1	131.80377	238.33346	290.69733	8.84911	0.0504030	3.2363587414270
(498892)	16.4	4.08476	223.27685	126.37584	11.25053	0.0658261	3.0092043414270
(498893)	16.5	342.57480	82.27598	278.23562	7.96710	0.0979453	3.0226777414270
(498894)	17.2	303.56642	239.09868	151.42166	2.78658	0.1952399	2.9789248414271
(498895)	16.6	271.68934	339.83357	102.74199	12.52514	0.0643493	2.9873243414271
(498896)	16.4	310.87846	87.74670	290.04463	9.92205	0.0905820	3.0826443414271
(498897)	16.3	238.51410	137.41312	337.09828	16.05142	0.2120126	3.1065987414271
(498898)	15.2	141.77508	240.36317	283.70750	25.73817	0.0930114	3.1487342414271
(498899)	16.4	271.48498	281.99347	140.20734	10.61170	0.1457787	3.0557940414272
(498900)	16.0	191.18362	198.60823	291.83948	16.05044	0.1774565	3.1316890414272
(498901)	14.3	333.75946	269.92501	133.64228	26.16497	0.4965688	4.5898395414272
(498902)	17.1	282.30001	256.47162	157.79823	4.36789	0.1217737	3.0107300414273
(498903)	16.4	358.79444	61.05980	295.83587	14.16170	0.2778268	2.8688723414273
(498904)	16.2	176.24384	196.09743	303.21894	9.32693	0.1372323	3.1662291414273
(498905)	16.5	235.57895	7.94665	109.25466	11.44346	0.0936707	3.0099991414274
(498906)	16.8	344.93880	60.21565	304.89087	2.95781	0.0213176	3.0127062414274
(498907)	16.5	126.74132	231.59701	307.25701	8.37539	0.0651919	3.2431995414274
(498908)	16.0	0.83504	186.83909	131.67139	11.86887	0.0584855	3.1359886414274
(498909)	16.3	280.55927	123.51108	289.56141	8.15036	0.0413662	3.0631416414275
(498910)	16.4	151.98690	83.54772	107.10394	14.25597	0.0672221	3.0367429414275
(498911)	16.0	286.14053	278.78324	125.73902	11.49527	0.1186750	3.0968183414275
(498912)	16.4	166.52779	235.49289	301.20527	9.33262	0.0309889	3.0079730414275
(498913)	18.0	114.11040	237.05079	308.32677	4.21051	0.1614532	2.3290160414275
(498914)	15.9	113.22568	110.35516	125.61870	16.29358	0.1883542	3.1111393414276
(498915)	15.8	142.93695	53.21585	143.87684	10.00554	0.0144071	3.1300516414276
(498916)	16.9	218.08075	159.25852	348.35198	5.79368	0.0764768	2.9834167414276
(498917)	16.9	225.84400	179.37458	285.01216	4.66035	0.1383632	3.0982470414276
(498918)	18.8	23.46484	347.27706	295.98823	51.70254	0.3069880	1.8279303414277
(498919)	17.5	76.28591	332.43782	285.34829	7.21481	0.1085406	2.2351431414277
(498920)	15.2	180.04273	198.42573	310.57450	23.71761	0.2578559	3.1614650414277
(498921)	16.6	294.97386	123.84509	309.72526	11.26520	0.1097729	2.9549499414278
(498922)	16.0	306.40916	58.24985	310.43622	14.33910	0.0317047	3.1675195414278
(498923)	16.4	309.60089	70.71282	305.34007	12.86813	0.0996162	3.0684282414278
(498924)	16.4	160.89563	204.41171	330.09460	15.74602	0.1523184	3.1737079414279
(498925)	16.9	221.13711	203.15475	282.18060	9.38013	0.0705029	3.0237663414279
(498926)	16.3	21.49078	188.99019	114.65258	6.24503	0.0919263	3.1235016414279
(498927)	18.1	39.12030	127.90486	101.53679	2.97303	0.1856015	2.3868683414279
(498928)	16.8	333.44989	56.49363	307.10222	7.16372	0.2276074	3.0156475414279
(498929)	18.0	134.98968	233.94801	311.29714	5.37698	0.0466577	2.2690349414280
(498930)	16.8	250.99589	355.47820	112.91594	10.08170	0.0700899	3.0300824414280
(498931)	18.3	124.25278	213.54795	344.61770	1.91526	0.1209389	2.2824244414280
(498932)	16.6	129.10565	227.78491	324.49379	9.00648	0.0985198	3.2146123414280
(498933)	18.4	314.47711	319.70199	81.66087	2.34408	0.1484058	2.1840442414281
(498934)	17.0	315.30052	298.81935	113.90361	3.50770	0.0923870	2.9840969414281
(498935)	16.5	140.45267	221.54309	328.34602	8.56473	0.0338388	3.1680480414281
(498936)	17.3	161.49090	200.62417	326.69597	6.79848	0.0367557	2.2615621414281
(498937)	16.6	224.99273	144.04705	316.72724	9.56059	0.0544900	3.1838652414282
(498938)	15.6	199.08375	189.39103	318.75006	12.91977	0.1091561	3.1254526414282
(498939)	16.4	281.97227	88.22747	312.40098	10.49789	0.0854967	3.1188255414282
(498940)	15.6	197.53492	182.07224	309.02623	15.80806	0.1081073	3.1313140414282
(498941)	18.2	339.70321	258.87445	117.53050	5.54423	0.2160165	2.1709299414283
(498942)	16.6	215.26407	354.35889	125.07919	11.38517	0.0438861	3.1103002414283
(498943)	16.2	247.64885	295.70806	147.90572	16.71628	0.1239048	3.1428679414283
(498944)	16.4	213.01724	188.06558	321.34312	16.15988	0.1356002	3.0422226414284
(498945)	16.4	205.48044	7.12303	110.88120	11.31394	0.1254606	3.1000828414284
(498946)	16.8	238.36002	145.16510	310.92023	4.19590	0.1352625	3.1042762414284
(498947)	18.3	59.42982	292.37810	306.28408	1.62563	0.1657463	2.3435434414284
(498948)	16.0	217.61266	338.02280	148.79857	25.49154	0.1261970	3.1170039414285
(498949)	16.1	194.18608	194.80460	323.06466	12.03687	0.2070093	3.0664183414285
(498950)	16.0	268.15672	134.92931	313.45261	14.53954	0.1192041	3.0301728414285
(498951)	16.5	33.72507	202.73008	121.30507	10.68028	0.0600575	2.9859778414285
(498952)	17.1	236.23694	137.75081	345.13974	1.06924	0.1288449	3.0229055414286
(498953)	16.8	298.34216	277.16180	145.63386	5.21617	0.0719786	2.9952604414286
(498954)	18.7	184.70759	34.57923	122.00501	1.89415	0.0550529	2.2373703414286
(498955)	16.9	247.73832	358.30592	129.69915	9.07905	0.0839864	2.9851208414286
(498956)	16.4	136.69030	74.28021	130.19767	16.98049	0.0938162	3.1493800414287
(498957)	16.5	298.77317	281.26512	137.81011	10.58510	0.1048919	3.0017809414287
(498958)	16.3	288.67009	106.21871	314.64459	10.09107	0.0364258	3.0625676414287
(498959)	16.2	272.47655	281.11495	145.08943	16.34057	0.0722354	3.1092176414287
(498960)	16.4	277.04402	285.76358	142.97235	11.69156	0.1872593	3.0404057414288
(498961)	18.4	10.65319	211.46246	141.65758	5.18179	0.1521690	2.1707483414288
(498962)	16.4	234.62511	163.78393	319.85804	9.37117	0.0439216	3.0762784414288
(498963)	16.3	250.35006	289.84025	145.69208	11.39837	0.1301820	3.1240576414288
(498964)	18.2	254.66517	314.87095	136.09529	24.03878	0.0627862	1.7909017414288
(498965)	16.5	218.27470	6.05257	116.20859	12.49397	0.0877666	3.0567590414289
(498966)	16.9	285.17006	6.63090	67.54911	4.08020	0.1589987	3.0078048414289
(498967)	16.1	128.25976	82.61194	148.11328	12.08742	0.0746495	3.1102863414289
(498968)	16.8	282.18200	306.33504	145.34282	11.74677	0.0700900	2.9882643414289
(498969)	16.1	228.36739	320.79650	138.05275	18.93917	0.2240370	3.1310274414290
(498970)	16.4	296.77643	117.17231	307.73432	8.39750	0.0570019	2.9985338414290
(498971)	16.7	252.95334	154.15616	309.47472	14.92826	0.1215245	3.0164337414290
(498972)	17.1	209.15973	35.72120	119.03236	0.45345	0.1284952	3.0328455414290
(498973)	16.9	249.66295	353.05666	123.00448	2.17345	0.1891125	2.9962541414291
(498974)	16.1	336.89864	32.67750	319.40190	9.43558	0.0728704	3.1352544414291
(498975)	17.2	272.08131	329.59666	137.84675	9.59590	0.0440129	2.9715048414291
(498976)	16.0	343.46192	214.83183	136.14643	17.33099	0.1313234	3.1091197414291
(498977)	17.3	316.93417	314.73584	117.32491	2.36353	0.2550286	2.8734669414292
(498978)	16.8	277.54328	109.57743	328.36454	10.63617	0.1318792	3.0232276414292
(498979)	16.7	181.93926	192.01095	329.03912	10.80799	0.0877025	3.1863884414292
(498980)	16.3	318.16217	53.37068	318.38901	11.93539	0.1673328	3.0737914414292
(498981)	16.6	192.55076	31.78382	120.68421	10.70230	0.0149312	3.0865860414293
(498982)	16.6	181.09547	24.40023	119.92373	11.65167	0.0558530	3.1624248414293
(498983)	18.3	135.67724	49.28060	148.39554	2.05296	0.1343151	2.2899961414293
(498984)	16.9	201.14772	15.91591	146.95705	1.92281	0.0913088	3.1066126414293
(498985)	17.0	354.24123	305.62287	82.92537	3.26278	0.1285229	2.9283660414293
(498986)	18.0	120.84289	4.11407	139.92724	12.51573	0.1708452	2.3830904414294
(498987)	17.9	227.06105	329.70178	146.09146	5.62787	0.0973505	2.2394825414294
(498988)	18.7	265.51631	97.41489	321.22832	18.09621	0.0668388	1.8120932414294
(498989)	16.7	280.07834	270.13625	137.65278	10.14939	0.0783583	3.0872740414294

(498990)	16.3	6.41085	46.77120	312.75121	16.44195	0.1164772	2.9910744414295
(498991)	18.4	132.97133	143.95074	318.33332	19.75172	0.0408938	1.8931525414295
(498992)	16.7	160.77756	228.18474	322.73142	3.73310	0.0876803	3.1648826414295
(498993)	15.4	132.45556	220.75070	332.50358	31.92560	0.0837444	3.2048189414295
(498994)	18.7	290.76039	302.37695	149.92604	1.81097	0.0686333	2.1727993414296
(498995)	16.0	215.87041	160.07248	338.85669	21.61749	0.2101590	3.0664753414296
(498996)	16.3	195.44434	165.80110	353.32927	10.59931	0.0750088	3.1352227414296
(498997)	16.6	157.32745	72.79615	124.19471	6.16103	0.1002521	3.1092539414296
(498998)	16.0	242.80539	179.05964	274.11735	10.43682	0.1184737	3.0808501414297
(498999)	16.8	345.35729	67.32406	294.24733	14.63752	0.0733546	3.0099443414297
(499000)	16.3	229.03719	131.51969	321.87336	12.35621	0.1539215	3.1368266414297
(499001)	17.6	227.64903	70.62552	84.79527	2.64572	0.1600032	3.0050481414297
(499002)	18.2	100.94772	236.91870	351.67881	7.71529	0.0894172	2.2877339414297
(499003)	18.1	102.63772	138.74410	82.75708	2.28733	0.0958267	2.2981990414298
(499004)	17.9	93.51115	84.22198	125.07771	5.07836	0.0831121	2.3334040414298
(499005)	16.6	213.04595	17.50371	125.79039	7.11502	0.1709088	3.0962069414298
(499006)	18.3	107.68446	73.19298	133.68237	5.00053	0.1407973	2.3274603414298
(499007)	16.2	2.98264	33.86844	296.93437	7.02897	0.1153283	3.1242334414299
(499008)	16.4	12.16882	2.58351	346.36768	9.61289	0.0857888	3.0039307414299
(499009)	18.0	61.65906	155.13841	78.17209	2.45036	0.1560606	2.3388680414299
(499010)	18.0	113.05010	47.38217	169.94466	7.37499	0.1547568	2.3191858414299
(499011)	16.7	180.57628	15.49665	142.91610	3.68044	0.0739422	3.0963572414300
(499012)	18.6	303.26486	94.66388	314.83336	4.23484	0.1366452	2.1814175414300
(499013)	16.0	224.62691	357.55661	132.70702	17.13845	0.1292308	3.0725159414300
(499014)	16.2	226.22775	137.19272	350.15080	9.27653	0.1643173	3.0768957414300
(499015)	18.0	146.94454	75.13687	140.14615	7.17749	0.0569017	2.2176235414301
(499016)	16.5	228.59713	159.92363	327.40467	12.24945	0.1192095	3.0584633414301
(499017)	18.0	243.63356	340.51473	104.83247	4.09531	0.0859829	2.2586250414301
(499018)	16.5	275.54088	276.44826	136.58112	6.03425	0.1370593	3.0835107414301
(499019)	16.9	288.99363	92.94454	319.97197	14.01567	0.1448540	3.0507395414301
(499020)	17.9	131.18221	234.53538	329.03241	4.86235	0.0982174	2.2652519414302
(499021)	16.3	253.72515	114.13933	0.52923	18.84000	0.0695717	3.0350772414302
(499022)	18.4	304.35585	120.94049	298.23285	3.48610	0.2349937	2.1934106414302
(499023)	15.8	286.27857	75.02757	340.71383	9.90225	0.0938705	3.1473073414303
(499024)	15.9	244.26717	107.83313	338.39435	21.18571	0.0754212	3.1974708414303
(499025)	16.8	40.11624	201.71913	127.98693	11.09205	0.0606661	2.9917754414303
(499026)	16.6	281.45925	264.94867	147.90258	8.35642	0.1562485	3.0551376414303
(499027)	16.4	40.42705	167.61839	118.56717	14.35134	0.0820990	3.1717423414303
(499028)	16.5	357.73756	23.50659	318.92970	11.20982	0.0765117	3.0847884414304
(499029)	16.5	48.18044	153.82606	164.47949	6.16585	0.0639858	3.1174994414304
(499030)	18.5	205.90571	352.56577	160.09957	6.35033	0.1671221	2.2336431414304
(499031)	17.4	99.97090	270.89504	333.28435	6.69197	0.0541049	2.2638962414304
(499032)	17.6	241.45231	40.43606	52.89224	5.52247	0.0843917	2.2656836414305
(499033)	16.0	198.72411	114.36475	20.62865	9.70741	0.0487543	3.1709664414305
(499034)	16.8	239.90571	318.26379	168.13275	2.71015	0.1251432	3.1144182414305
(499035)	18.0	275.53081	338.20407	116.17575	3.44240	0.1035901	2.1935327414306
(499036)	18.2	87.01834	129.74501	89.97294	3.23132	0.1636418	2.3431034414306
(499037)	16.5	200.57425	10.50169	133.43973	4.43685	0.0819359	3.1749412414306
(499038)	18.5	233.68118	18.95811	115.92224	1.97581	0.0892588	2.2162274414307
(499039)	16.3	276.38176	281.95452	154.77551	11.87048	0.0551147	3.1324508414307
(499040)	18.0	96.11311	233.64621	23.61245	3.68712	0.1358817	2.2777738414307
(499041)	16.6	118.09014	80.84147	156.11207	11.26316	0.0721847	3.1885136414307
(499042)	16.2	233.72538	98.93772	343.17407	14.69247	0.0799473	3.2236640414307
(499043)	16.6	242.14467	314.84464	146.98486	12.37647	0.1045637	3.1200281414308
(499044)	16.1	241.22565	307.43788	158.89392	17.32129	0.2070271	3.1263423414308
(499045)	18.0	112.60951	103.65075	93.28009	5.36170	0.1291871	2.3482266414308
(499046)	17.2	260.11711	316.04844	153.46592	1.55122	0.1489639	2.9823991414308
(499047)	16.4	252.83584	125.10192	332.59148	11.31381	0.1216009	3.1009917414309
(499048)	18.1	164.71162	352.56688	175.48737	3.44812	0.1614372	2.2734320414309
(499049)	17.7	120.87531	257.92901	334.80365	5.47609	0.0366779	2.2607649414309
(499050)	16.8	229.52716	157.69820	352.68536	9.34091	0.2201267	3.0696095414309
(499051)	16.5	122.39753	253.50732	327.80697	8.37897	0.0241451	3.1764164414310
(499052)	18.5	98.04097	87.47776	157.35660	6.08881	0.1300517	2.3023380414310
(499053)	17.1	273.28852	93.53560	20.31520	13.89416	0.1852729	3.0121421414310
(499054)	16.7	124.97483	155.35268	101.77330	4.87117	0.1183399	3.1141248414310
(499055)	18.4	92.42888	21.76207	182.57489	1.24668	0.1312954	2.3800863414311
(499056)	18.1	122.53021	211.66143	352.88533	3.83519	0.0975198	2.3045494414311
(499057)	18.7	101.20316	235.85247	323.70614	3.27574	0.1488591	2.3540536414311
(499058)	16.3	235.37000	282.13062	168.12383	17.12404	0.1424917	3.1975258414311
(499059)	16.2	308.54387	225.64558	170.25551	9.71973	0.0974471	3.1656303414312
(499060)	18.1	111.45349	219.64866	343.41142	2.16634	0.1399134	2.3350135414312
(499061)	17.7	99.33382	201.38216	21.50035	3.31577	0.1454243	2.3372311414312
(499062)	17.5	42.63503	319.21816	345.96020	2.66498	0.2458064	2.3173257414313
(499063)	16.7	327.76427	231.69893	180.12581	7.11612	0.1849523	2.9757358414313
(499064)	16.7	168.62290	349.01929	191.56014	8.68368	0.0930667	3.2243234414313
(499065)	16.4	219.14910	140.00396	332.60337	18.12971	0.0665491	3.2033623414313
(499066)	16.4	52.81352	148.97803	151.10650	9.93620	0.0516076	3.1680818414313
(499067)	17.9	34.48650	229.35388	6.46968	2.63489	0.1427338	2.4353538414314
(499068)	16.3	320.33501	104.40766	314.26839	8.30753	0.0623927	3.0510330414314
(499069)	15.9	259.55205	52.26557	56.05241	14.05365	0.3870916	3.0154176414314
(499070)	18.4	197.17691	18.54380	117.21906	6.06047	0.1068575	2.2577129414315
(499071)	16.1	316.59599	51.50392	12.28270	9.71034	0.1084798	3.0033151414315
(499072)	18.3	59.44107	140.00953	95.73220	2.24514	0.1405653	2.3918974414315
(499073)	18.2	253.99046	54.81857	63.89994	3.89668	0.0591294	2.2064141414315
(499074)	16.5	211.83055	347.97194	158.96804	9.76872	0.0328235	3.1633314414316
(499075)	17.8	103.23353	226.55272	1.18828	4.88981	0.1822318	2.3351034414316
(499076)	16.3	79.47846	285.73316	6.75091	10.65614	0.0494908	3.1546547414316
(499077)	17.7	127.48690	156.46467	69.84060	6.89971	0.1755205	2.2783125414316
(499078)	18.1	86.38064	231.46902	1.90122	1.39024	0.1394375	2.3464227414317
(499079)	16.9	258.69280	42.22680	77.23305	3.00311	0.1816558	3.0420946414317
(499080)	17.5	173.05909	17.97228	144.38564	8.24669	0.0410108	2.2972868414317
(499081)	16.6	262.23684	91.21545	359.62148	11.50115	0.0859833	3.1126124414317
(499082)	18.0	170.83675	143.63058	49.72366	4.31315	0.0974424	2.2546600414318
(499083)	15.8	164.35945	209.14119	341.76514	15.71866	0.0750566	3.1650009414318
(499084)	16.1	204.26382	173.27895	345.86909	10.56599	0.0338920	3.1347134414318
(499085)	18.0	238.52174	129.11278	343.77675	9.05897	0.0941251	2.2330056414318
(499086)	16.7	239.65298	302.48796	167.02425	9.29561	0.0730101	3.1234317414319
(499087)	18.0	109.06415	14.32503	180.23395	2.33357	0.1672940	2.3638024414319
(499088)	15.9	244.31261	329.29168	122.86996	11.01000	0.0503002	3.2045050414319
(499089)	17.6	67.40560	210.93660	44.18667	7.27971	0.1685308	2.3635485414319
(499090)	16.2	166.31145	177.15891	9.36296	31.13646	0.2067657	3.1625179414320
(499091)	16.0	226.09099	129.73455	18.57388	15.83908	0.1056854	3.0999482414320
(499092)	16.0	182.15576	172.82567	4.73231	27.78968	0.1240143	3.1533541414320
(499093)	17.6	111.45840	151.86128	47.75723	5.78571	0.1376757	2.3655705414320

(499094)	16.0	268.93161	275.95374	155.46735	11.36981	0.0829477	3.2074494414321
(499095)	17.5	58.31030	220.34992	39.43148	7.20409	0.1418035	2.3704258414321
(499096)	18.6	165.86389	6.12890	180.13286	1.84859	0.1417763	2.2743904414321
(499097)	18.3	121.90191	95.09631	86.20383	2.56716	0.1279211	2.3652270414321
(499098)	18.2	50.02998	190.69915	62.37652	3.53662	0.1549162	2.4096791414322
(499099)	18.2	129.30790	128.40405	44.06382	1.63312	0.1580290	2.3686568414322
(499100)	18.0	94.74988	231.18438	345.60000	3.72081	0.2008894	2.3734831414322
(499101)	17.0	62.29397	195.75001	74.68791	7.11991	0.1483383	2.3572420414322
(499102)	17.8	99.43362	187.79250	17.34636	5.08064	0.1690458	2.3801952414323
(499103)	17.9	99.88012	223.35028	339.72556	2.35787	0.1647753	2.3884816414323
(499104)	18.3	41.17768	96.22763	174.13284	3.28485	0.1519837	2.3876689414323
(499105)	16.7	255.26550	356.64273	131.13209	9.25898	0.1121295	3.0820611414323
(499106)	17.9	68.19722	218.64812	72.94811	7.39169	0.1444366	2.3226816414324
(499107)	17.6	33.12330	257.82878	42.28325	7.19115	0.2393374	2.3826186414324
(499108)	15.8	48.87148	272.20084	41.93492	12.73687	0.1371588	3.2400399414324
(499109)	16.4	245.58119	46.66574	77.47630	8.83066	0.0908600	3.1305011414325
(499110)	16.6	274.60967	95.60259	19.56114	11.80910	0.1785917	3.0526657414325
(499111)	17.9	44.33238	199.11792	101.20278	2.23001	0.1954518	2.3362149414325
(499112)	18.5	236.17346	45.92930	90.45935	5.43115	0.1237544	2.2537447414325
(499113)	14.2	214.05605	162.46746	124.14236	17.35315	0.1340055	5.2324955414325
(499114)	17.3	121.75490	40.37830	155.07941	11.60767	0.2282213	2.3624748414326
(499115)	17.7	38.39127	234.93774	46.18251	5.22186	0.1777397	2.3905478414326
(499116)	18.4	59.29578	77.61244	177.92065	3.51147	0.3177070	2.4111753414326
(499117)	17.6	94.28659	204.59255	53.34518	5.66880	0.2304354	2.3441847414327
(499118)	16.2	249.29308	276.12490	191.16158	8.91899	0.1084280	3.2050820414327
(499119)	16.7	226.04192	117.47722	47.68174	2.37515	0.0988215	3.1084841414327
(499120)	18.3	77.66139	188.50953	62.44814	1.78470	0.1892042	2.3934453414327
(499121)	18.4	83.22118	187.01682	46.13855	3.03366	0.1248262	2.3850675414328
(499122)	17.4	69.87510	359.58332	242.29517	8.31609	0.2610734	2.4231010414328
(499123)	17.4	79.18992	198.21909	38.42995	11.44262	0.2554816	2.4117601414328
(499124)	17.3	110.02506	171.11785	75.76303	7.19895	0.0767850	2.3321275414328
(499125)	18.1	54.31661	125.90181	152.38767	1.70266	0.1694417	2.4057833414329
(499126)	17.9	97.81987	80.89420	137.99413	2.74245	0.1303752	2.4100891414329
(499127)	17.7	40.88994	138.76488	133.86269	8.14803	0.1224787	2.4335683414329
(499128)	16.5	28.20535	23.19406	301.54441	11.91308	0.2141995	2.4417871414329
(499129)	18.9	335.99301	29.08337	344.99933	3.93743	0.3045147	2.5453805414330
(499130)	18.3	3.50588	336.89236	354.57200	3.65359	0.1804416	2.5430320414330
(499131)	15.9	2.60129	25.45098	313.46729	6.82838	0.3346788	3.9622560414330
(499132)	16.0	13.14092	169.65820	159.81264	2.12655	0.3013162	3.9678187414331
(499133)	17.5	306.89864	198.85302	160.99912	4.75061	0.2423985	2.6210484414331
(499134)	17.3	353.12106	85.09044	259.85250	15.71751	0.2386109	2.5298391414331
(499135)	17.3	342.37323	146.20812	240.86937	17.05317	0.0810457	1.9038043414332
(499136)	17.7	4.26773	171.81217	154.05895	23.18281	0.0596515	1.9365669414332
(499137)	17.7	334.21315	119.74689	188.70187	4.24280	0.2271299	2.6534974414332
(499138)	15.7	7.76590	132.31283	214.22889	3.14961	0.3072275	3.9372225414332
(499139)	18.0	13.25273	318.96213	33.12372	3.30275	0.2317497	2.4775913414333
(499140)	17.9	338.26899	72.30914	254.14408	5.02275	0.3803220	2.5959863414333
(499141)	16.8	165.88896	194.75627	357.91361	8.37550	0.0689116	2.5318778414333
(499142)	18.3	325.50831	191.93968	176.14423	3.50878	0.2141898	2.5919651414333
(499143)	17.6	278.68418	244.56122	177.51616	4.61324	0.2026040	2.6275130414334
(499144)	18.0	303.29863	246.69585	177.81018	4.92525	0.2024083	2.5570913414334
(499145)	17.7	356.50981	73.71823	270.24693	3.87328	0.2534104	2.5495494414334
(499146)	17.9	11.70208	84.99986	231.72280	4.35126	0.2054193	2.5640745414334
(499147)	18.4	340.99825	164.76560	199.54217	5.90386	0.2893585	2.5615415414335
(499148)	17.7	269.41926	257.38216	201.24540	7.97439	0.1296456	2.5665228414335
(499149)	17.6	268.52217	38.59147	22.93874	5.62698	0.1620595	2.6618580414335
(499150)	18.3	354.45072	295.21787	85.82294	1.11458	0.1527975	2.5135312414335
(499151)	16.2	162.59379	111.18642	26.53587	16.85866	0.0302725	2.7260188414336
(499152)	17.1	275.65455	233.14110	201.55385	16.59194	0.1797613	2.6261146414336
(499153)	17.7	336.37893	49.09966	341.45628	10.26312	0.2028944	2.5324813414336
(499154)	17.7	28.89417	69.41821	272.35414	5.06860	0.1165919	2.4443094414336
(499155)	17.6	353.20159	345.03653	16.12082	14.51821	0.2340857	2.5388203414337
(499156)	17.9	318.00395	94.31268	278.88638	1.74643	0.1584584	2.6180473414337
(499157)	17.9	22.81523	81.20286	236.96676	3.09265	0.1648164	2.5554050414337
(499158)	17.3	269.17412	145.34010	278.35531	3.51916	0.0998053	2.6502593414338
(499159)	17.0	73.48357	274.09165	5.40786	9.03268	0.1024884	2.5496550414338
(499160)	17.8	343.54360	19.37946	336.63166	16.82932	0.2390882	2.5485503414338
(499161)	18.6	8.22626	151.49563	171.10729	5.61173	0.2601179	2.5408303414338
(499162)	15.7	45.16818	89.15104	199.99614	3.74934	0.2093301	3.9949169414339
(499163)	18.1	322.07675	40.73613	352.95949	8.60311	0.1689077	2.5699163414339
(499164)	18.0	322.93342	239.87917	163.55507	5.32283	0.0924551	2.5486553414339
(499165)	17.4	281.08291	282.02139	117.92344	2.88500	0.0961122	2.6666329414339
(499166)	18.4	254.18184	90.93874	26.48901	21.31482	0.1090805	1.9376965414340
(499167)	18.2	331.43315	37.17171	341.48198	3.85505	0.0966682	2.5453519414340
(499168)	18.0	302.19227	264.40422	125.94672	4.00332	0.0893638	2.6297233414340
(499169)	17.7	289.45053	71.59839	16.21281	5.50599	0.2742611	2.5856735414340
(499170)	17.2	10.51611	77.23708	236.35343	8.27777	0.1278516	2.5789974414341
(499171)	16.1	347.51183	133.74043	236.26696	12.22393	0.2609092	2.5913749414341
(499172)	17.9	351.09918	173.33131	216.21507	21.82219	0.1265916	1.9024490414342
(499173)	19.0	359.85693	161.26186	178.22118	4.82581	0.3288609	2.5452342414342
(499174)	17.8	276.93447	74.96000	25.86866	14.40089	0.2184711	2.5628023414343
(499175)	18.2	333.80376	178.87744	202.77451	8.50372	0.1678043	2.5689995414343
(499176)	18.0	351.60221	151.02154	198.87767	15.39987	0.2403536	2.5490715414343
(499177)	17.4	45.01936	261.05048	17.14436	19.74465	0.0740763	1.9663721414343
(499178)	18.3	285.07648	296.70753	155.16169	5.94806	0.2410410	2.5750309414343
(499179)	18.3	340.34472	277.05412	105.80292	4.13798	0.2371005	2.5486215414344
(499180)	18.1	339.59274	205.96662	152.16735	4.54364	0.2220922	2.5837269414344
(499181)	18.2	353.64495	142.51277	209.03725	6.44867	0.2062798	2.5655300414344
(499182)	17.4	318.04650	203.11855	196.52540	12.12174	0.1693140	2.5697629414344
(499183)	17.8	327.02448	27.59613	17.10750	12.22976	0.1965652	2.5532528414345
(499184)	17.2	330.59808	342.62102	18.23177	12.63483	0.2119176	2.5984999414345
(499185)	18.2	339.18656	316.09156	51.38834	3.03579	0.2307281	2.5724809414345
(499186)	17.6	312.04643	263.02721	132.49638	4.73017	0.1677652	2.5960548414346
(499187)	17.1	307.95423	16.32346	358.88087	10.49920	0.1168112	2.6091143414346
(499188)	17.6	284.24601	163.57807	256.76143	2.94458	0.2776010	2.6289588414346
(499189)	17.6	318.43096	119.34661	232.63193	11.44343	0.2891611	2.6253607414346
(499190)	17.4	316.92654	231.37443	163.69666	12.31853	0.2123938	2.6060352414347
(499191)	17.8	331.11110	218.10373	157.50649	6.48367	0.1792463	2.5773555414347
(499192)	17.3	317.02892	265.77907	80.76358	4.83878	0.2496291	2.6518294414347
(499193)	17.8	322.43758	166.11058	211.47340	8.34539	0.1442417	2.5974522414347
(499194)	18.4	359.74874	344.17461	17.88453	20.59001	0.0933058	1.9315972414347
(499195)	18.4	341.69062	67.05809	310.62728	5.38662	0.3261711	2.5454138414348
(499196)	17.8	319.64216	57.50772	6.09883	24.05663	0.1447348	1.9046560414348
(499197)	17.1	340.08102	78.60233	248.03456	11.75161	0.2831000	2.6129333414348

(499198)	17.0	357.98582	347.16831	10.14082	13.88570	0.1954573	2.5538814414348
(499199)	18.1	322.44720	75.07031	315.23276	2.71108	0.1413739	2.5504828414349
(499200)	16.7	11.63564	324.37578	27.94237	10.96893	0.0647114	2.5517613414349
(499201)	18.2	1.85273	340.77041	18.82734	21.13942	0.0840774	1.9252288414349
(499202)	17.1	226.92481	83.20508	64.48098	5.24337	0.1263001	2.5451746414350
(499203)	17.4	308.09506	252.42824	145.73569	5.41440	0.2575717	2.6199020414350
(499204)	17.1	340.17942	56.60624	324.14198	11.37454	0.2021291	2.5536718414350
(499205)	17.9	28.68087	220.81128	84.13926	4.65707	0.0691601	2.5899704414351
(499206)	17.7	10.55659	290.87515	55.60535	7.26488	0.0959591	2.5364058414351
(499207)	17.7	35.67730	282.09707	38.96507	21.69560	0.0876479	1.9359688414351
(499208)	17.8	50.31018	74.10719	237.42609	19.72947	0.0610054	1.9269722414351
(499209)	18.4	246.76904	250.39667	207.38677	20.58935	0.0734319	1.9672578414352
(499210)	17.4	330.10899	163.23258	217.35259	12.22879	0.1825184	2.5993295414352
(499211)	17.7	305.86303	203.89230	230.62296	1.22020	0.1791647	2.5841983414352
(499212)	17.6	353.77483	318.86042	59.12476	6.52543	0.1890325	2.5486108414352
(499213)	17.7	39.43526	91.92176	215.65999	20.47377	0.0714421	1.9468634414353
(499214)	18.1	354.94516	327.69332	39.35822	5.22107	0.2011231	2.5525438414353
(499215)	17.3	326.24457	347.06784	45.75149	14.35716	0.1606952	2.5959722414353
(499216)	18.2	312.93808	160.09599	231.76601	2.16286	0.1674745	2.6155864414354
(499217)	17.8	357.99565	293.76567	31.84984	5.53787	0.3049845	2.5961493414354
(499218)	18.0	320.65253	14.45459	32.45752	6.68088	0.1362755	2.5725480414354
(499219)	17.4	312.60305	201.85447	201.09684	5.84352	0.2861583	2.6104340414354
(499220)	17.5	346.65491	77.95031	268.91845	3.13887	0.2805083	2.5875129414355
(499221)	17.7	326.57549	151.74336	219.11822	10.84743	0.1807739	2.6390214414355
(499222)	17.6	335.41790	154.80490	203.81623	4.17138	0.1925396	2.6388617414355
(499223)	17.2	323.86662	177.65048	221.17056	12.57233	0.1912897	2.5841775414355
(499224)	17.2	338.14636	9.26504	15.37527	7.01760	0.2956363	2.5635175414356
(499225)	17.6	0.00743	359.14451	349.90615	4.37715	0.3002303	2.5536934414356
(499226)	16.5	296.29485	345.20855	46.95865	15.64403	0.1644671	2.6572939414357
(499227)	14.3	264.68925	157.80973	221.30385	18.22296	0.0803450	5.1785282414357
(499228)	17.7	351.25011	322.64060	38.81701	2.78434	0.3095091	2.5662098414357
(499229)	16.9	37.42938	289.64108	65.20117	10.03820	0.0814252	2.4783079414358
(499230)	17.7	326.62548	165.61000	230.11054	11.68414	0.1257089	2.6001468414358
(499231)	13.9	230.17380	153.56318	251.93508	6.73012	0.2415186	5.2595640414358
(499232)	17.6	292.04059	217.58390	195.77209	2.10494	0.1209143	2.6005968414358
(499233)	18.5	5.44969	135.41303	205.14708	4.93234	0.2344529	2.5440511414359
(499234)	16.8	254.26703	8.89709	47.82525	14.46159	0.0685802	2.7093285414359
(499235)	17.5	356.20295	274.15077	92.30984	6.20113	0.0704787	2.5629610414359
(499236)	17.9	324.05945	145.84289	233.25615	19.33775	0.1091730	1.9656716414359
(499237)	17.1	292.88341	202.43828	184.49910	18.70357	0.2869343	2.6727006414360
(499238)	18.7	318.10296	176.84178	235.62802	2.82220	0.1943133	2.5432069414360
(499239)	17.1	284.32256	131.77287	244.70123	14.01962	0.2623878	2.7359120414360
(499240)	17.7	301.18244	139.59132	272.92492	5.32947	0.3056446	2.6065313414360
(499241)	18.2	346.80612	131.87660	222.49638	12.12548	0.2772933	2.5839942414360
(499242)	17.5	340.07138	333.62054	54.95748	3.73363	0.2504365	2.5742131414361
(499243)	18.1	344.19100	189.63567	199.76605	1.48242	0.1609341	2.5574686414361
(499244)	17.9	271.96305	92.54443	17.22904	23.47473	0.1415673	1.9387901414361
(499245)	17.8	346.49454	144.50864	201.93447	1.53322	0.0871219	2.6451719414361
(499246)	17.4	347.18373	289.26060	53.79521	13.52644	0.2818978	2.6257065414362
(499247)	18.5	341.47786	298.56630	70.81080	5.54762	0.2819636	2.5779680414362
(499248)	18.5	323.62157	175.04212	229.45924	3.57769	0.2686262	2.5753071414362
(499249)	18.1	321.68913	312.34616	85.37122	2.64404	0.1402102	2.5903262414362
(499250)	17.2	323.43250	132.90615	244.44951	13.72954	0.2147139	2.6207759414363
(499251)	16.4	312.71841	53.14209	27.81772	31.42352	0.3047543	2.6197848414363
(499252)	17.6	327.57619	103.07331	287.82931	11.03530	0.2941522	2.5843887414363
(499253)	17.3	305.93752	149.72962	243.26021	8.70322	0.1230315	2.6456714414363
(499254)	19.0	332.59670	117.71001	262.73063	2.94832	0.2882057	2.5821277414363
(499255)	18.4	314.86929	104.91333	286.50587	1.31154	0.2225872	2.6172476414364
(499256)	17.5	323.90347	325.98566	69.39954	5.43557	0.2506846	2.5921878414364
(499257)	18.0	10.15947	65.22930	258.20555	1.75108	0.2147125	2.5934075414364
(499258)	17.7	307.36906	183.50110	226.56592	6.20585	0.3220090	2.6118714414364
(499259)	17.4	274.88338	92.06544	24.67302	4.95872	0.2005666	2.5996629414365
(499260)	18.1	340.39056	332.19890	47.40975	6.12311	0.2286955	2.5726441414365
(499261)	17.1	315.31097	166.46211	223.97075	17.10380	0.2112718	2.6186434414365
(499262)	17.6	328.33328	357.43905	40.10383	12.52221	0.1816159	2.5789436414366
(499263)	17.2	358.43049	289.35880	47.57034	13.93629	0.2058611	2.6390764414366
(499264)	16.9	115.40158	212.40127	42.37553	16.11040	0.0892123	2.5748167414366
(499265)	16.0	324.57867	129.39354	249.48453	21.13913	0.0362302	2.6695669414366
(499266)	17.3	285.87029	199.69537	222.80315	5.69791	0.2024679	2.6638060414367
(499267)	17.9	342.55526	260.19373	118.78777	2.75435	0.1932085	2.5799930414367
(499268)	17.5	335.17202	167.84559	200.85061	5.33797	0.0323908	2.6531230414367
(499269)	17.5	299.36337	340.12867	49.42633	5.15077	0.1157591	2.6557048414368
(499270)	17.2	130.45518	337.89898	211.17795	6.47018	0.0791248	2.7250240414368
(499271)	16.3	178.85951	276.64896	220.46434	16.59666	0.0820827	2.7627929414368
(499272)	17.6	293.27554	39.84589	52.72093	14.49959	0.2280639	2.5875149414368
(499273)	17.4	341.91902	337.66606	54.08976	4.53373	0.1784651	2.5646069414368
(499274)	17.3	302.55970	328.38449	48.25556	5.11465	0.0763538	2.7219433414369
(499275)	17.9	305.85336	165.96778	238.71268	5.70607	0.1805969	2.6376837414369
(499276)	17.0	313.82360	146.31556	257.98562	5.97856	0.0493392	2.6228102414369
(499277)	17.7	296.31637	171.19420	253.42785	4.95562	0.1224144	2.6341971414370
(499278)	17.4	263.52017	152.33123	286.35530	2.72703	0.1148802	2.6953976414370
(499279)	17.4	340.98421	0.09293	31.16739	2.52886	0.2336800	2.5876689414370
(499280)	17.5	307.05219	272.52351	183.65066	6.85113	0.3365051	2.5538444414370
(499281)	17.0	354.91150	351.29812	25.67632	5.53044	0.3037974	2.5506790414371
(499282)	16.4	358.68434	239.79295	124.81281	7.32621	0.2554413	2.5634003414371
(499283)	17.6	319.09483	40.48825	339.54056	6.86194	0.2530116	2.6216165414372
(499284)	17.8	259.75693	241.01420	222.16634	10.63018	0.1596501	2.6434088414372
(499285)	17.1	305.05666	162.05411	260.38146	7.25007	0.1973675	2.5989428414372
(499286)	17.2	358.04663	317.30574	53.99253	10.04672	0.2592634	2.5614748414373
(499287)	17.3	264.37278	9.03281	87.67721	6.06171	0.0838638	2.6374059414373
(499288)	17.5	241.75618	210.90417	253.46173	6.40590	0.0579925	2.6978653414373
(499289)	16.4	277.12831	159.42422	247.37344	13.02091	0.0864384	2.7273332414374
(499290)	16.6	310.99175	108.08718	272.17261	11.80468	0.1851414	2.6994283414374
(499291)	17.5	287.01318	355.26931	101.44548	5.26576	0.1928774	2.5842286414374
(499292)	17.0	286.52499	351.62760	90.43478	6.88799	0.3451380	2.6327114414374
(499293)	17.2	0.20901	323.83687	52.73323	5.39874	0.1290626	2.5694375414375
(499294)	17.2	295.40861	188.55251	231.38414	13.43648	0.1300008	2.6091326414375
(499295)	16.8	214.77665	245.03805	249.67130	11.36541	0.2126312	2.6940953414375
(499296)	17.3	306.55197	44.10145	356.75396	5.57375	0.2922894	2.6196078414376
(499297)	17.2	322.26132	37.26583	323.60148	5.49258	0.0604913	2.7097662414376
(499298)	17.3	16.86362	234.99972	87.59822	7.38320	0.2088218	2.6389213414376
(499299)	17.4	341.18260	255.92646	107.46336	4.78158	0.1153758	2.6608346414376
(499300)	17.0	241.74411	188.64749	284.55830	4.49008	0.1448311	2.7003155414377
(499301)	17.0	215.14609	241.93733	248.18814	11.20199	0.1415139	2.6962591414377

(499302)	17.9	337.65337	292.52687	113.46435	4.07894	0.2393899	2.5499152414377
(499303)	17.2	39.20009	92.15598	245.82737	6.98170	0.1612107	2.5547977414377
(499304)	17.1	341.53115	284.23180	72.31268	12.82217	0.0961176	2.6862725414378
(499305)	18.1	329.38622	15.23428	23.99054	3.36348	0.2640661	2.5739379414378
(499306)	17.4	292.44678	115.04905	276.87944	3.75503	0.1352463	2.7135988414378
(499307)	18.5	9.77050	149.23935	178.66967	7.15092	0.5544336	2.5222618414378
(499308)	16.3	278.68492	190.79327	253.97060	13.69180	0.1627732	2.6218638414379
(499309)	16.9	290.03900	156.29596	258.46206	7.73122	0.1079168	2.6413797414379
(499310)	17.5	324.93271	297.63994	70.28136	7.05146	0.1529439	2.6626656414379
(499311)	18.2	304.73382	296.42704	137.03975	2.62963	0.1705931	2.5882289414380
(499312)	18.0	308.45275	284.43253	129.02534	2.47711	0.1772548	2.6169969414380
(499313)	17.7	300.58836	320.12721	118.63711	5.25603	0.1064300	2.6032075414380
(499314)	17.8	333.51276	65.98971	313.18736	3.25315	0.2649047	2.5979913414380
(499315)	16.8	208.93605	194.91553	290.81549	6.53454	0.1224227	2.7433889414381
(499316)	18.0	323.42904	179.32113	226.36676	5.35988	0.2818584	2.5949271414381
(499317)	17.4	317.30303	345.28100	75.32549	6.78911	0.2660415	2.5917849414381
(499318)	17.8	14.19003	308.10143	27.96529	2.12600	0.2688285	2.5667293414382
(499319)	16.5	136.19324	47.33402	73.92092	11.73628	0.0868908	2.9882268414382
(499320)	17.5	239.49371	45.48500	91.51763	3.31574	0.1426141	2.6509920414382
(499321)	17.2	346.33263	86.63493	272.78390	9.60569	0.1374987	2.6162239414382
(499322)	17.9	319.62169	118.20047	283.68927	0.84689	0.2340070	2.5942728414383
(499323)	17.0	13.25242	73.85349	272.07104	10.11536	0.2126388	2.5759064414383
(499324)	17.8	341.61040	330.23090	40.47565	12.47033	0.1984772	2.5707987414383
(499325)	17.6	343.83232	168.81519	206.92710	8.60484	0.1965660	2.5804157414383
(499326)	18.2	293.14440	128.32976	300.29948	5.41560	0.2738142	2.6278285414384
(499327)	17.5	321.05809	41.29808	333.98037	5.86593	0.1436009	2.6528373414384
(499328)	17.5	344.81625	291.90207	113.74553	6.39727	0.2186202	2.5363133414384
(499329)	16.2	72.14152	267.75790	256.67519	12.21704	0.1961913	3.0905127414384
(499330)	17.9	359.46357	358.68951	341.57678	1.45210	0.2261750	2.6176491414385
(499331)	17.2	18.86622	316.14019	31.81493	9.41201	0.0164402	2.5936547414385
(499332)	17.1	263.59845	344.17389	84.02589	3.18348	0.0708715	2.6949931414385
(499333)	17.3	344.32128	144.39387	242.60254	4.70472	0.1598083	2.5834623414385
(499334)	17.7	350.47512	167.18311	198.42780	4.17138	0.2626139	2.5871601414386
(499335)	17.5	252.15269	320.89162	124.63775	2.75252	0.0525110	2.7133272414386
(499336)	17.6	353.89386	339.03382	20.30654	2.04213	0.3005700	2.5833804414386
(499337)	16.9	270.41817	343.64354	62.83353	7.01981	0.0937585	2.7588433414387
(499338)	17.2	319.36164	211.33209	186.39723	13.83500	0.2567503	2.6034281414387
(499339)	16.2	263.62657	180.93995	268.08441	12.73675	0.1436566	2.6956109414387
(499340)	17.0	299.62611	173.54963	230.81033	4.46682	0.0437325	2.6705263414388
(499341)	17.3	5.11316	327.79857	55.71128	19.12035	0.1890941	2.5260970414388
(499342)	17.7	320.14537	136.10763	263.55856	3.61064	0.2144698	2.6074690414388
(499343)	16.9	273.10299	206.60000	247.19652	13.36410	0.2183416	2.6597159414388
(499344)	17.1	336.62152	297.86346	78.03633	14.98561	0.1628613	2.6313462414389
(499345)	17.4	281.20910	354.86008	84.01773	8.08712	0.1450899	2.6505594414389
(499346)	17.3	346.11554	307.00843	89.89248	8.64589	0.1443135	2.5722424414389
(499347)	17.3	228.66985	207.77819	261.07997	17.59806	0.0800090	2.0015216414389
(499348)	17.6	329.87887	127.42035	265.32409	5.13005	0.3266730	2.5912586414390
(499349)	16.5	237.88356	34.69128	67.75800	13.07891	0.0713344	2.7313155414390
(499350)	17.5	285.20437	224.32095	240.99906	6.23767	0.2970020	2.6251245414390
(499351)	16.7	281.06270	137.53810	272.74126	10.90279	0.0884445	2.7374149414391
(499352)	17.4	334.41253	108.41051	274.39772	10.89989	0.2282124	2.5962828414391
(499353)	16.3	279.33073	11.52585	49.68531	13.78450	0.2176253	2.7146416414391
(499354)	17.1	293.24077	351.01583	105.91845	8.56118	0.1677769	2.6369117414391
(499355)	16.4	156.62759	306.56923	109.67483	20.88218	0.1914607	3.2160226414392
(499356)	16.9	344.26695	106.57051	288.27031	11.82692	0.2842543	2.6042573414392
(499357)	16.3	249.13248	195.41136	287.80129	11.81932	0.0760667	2.7164528414392
(499358)	17.6	332.99448	326.42148	92.17031	3.98111	0.2877452	2.5858636414392
(499359)	17.2	285.04670	188.39444	253.92123	4.55389	0.1593839	2.6428749414393
(499360)	16.9	276.27178	157.61424	295.89516	12.95587	0.2167012	2.6963518414393
(499361)	17.5	255.57742	135.48276	337.66609	3.19966	0.1356933	2.7242006414393
(499362)	17.6	327.20012	317.57311	103.25885	6.11245	0.1806979	2.5983621414393
(499363)	16.2	272.30277	207.80171	259.75911	12.09966	0.1290169	2.6293711414394
(499364)	17.4	333.50848	310.84906	106.34168	6.45206	0.2641084	2.5915712414394
(499365)	16.8	287.33742	141.18078	308.33264	12.66305	0.1135199	2.6880000414394
(499366)	17.9	305.57928	120.56155	310.59965	6.12098	0.3240090	2.6323819414395
(499367)	17.7	314.70383	337.26228	103.99644	7.49766	0.3306262	2.5855101414395
(499368)	17.9	293.52750	357.95764	99.00000	4.49203	0.2405629	2.6103530414395
(499369)	17.1	230.40809	177.54479	303.76138	16.20527	0.1908304	2.7825269414396
(499370)	16.4	127.48333	270.84729	304.99200	11.88109	0.1042193	2.8114955414396
(499371)	16.8	309.37953	294.84897	134.87913	13.83314	0.2501152	2.6618857414396
(499372)	17.0	329.07303	340.09947	103.13345	5.24703	0.2671147	2.5773389414396
(499373)	16.9	292.27731	145.46270	316.31914	7.50093	0.1805637	2.6563011414397
(499374)	17.6	228.69311	213.25645	295.81799	16.56495	0.0763676	1.9929721414397
(499375)	16.4	338.93312	281.47023	105.39191	29.28800	0.3545663	2.6108044414397
(499376)	17.1	241.93729	349.77346	122.45971	10.81265	0.1685347	2.8032683414397
(499377)	16.3	281.15965	335.66587	127.85750	9.80808	0.0365510	2.7300428414398
(499378)	16.9	1.04285	46.34545	352.43158	4.16375	0.3495831	2.5627709414398
(499379)	17.1	292.28507	88.32267	320.29212	14.19445	0.3043479	2.7469653414398
(499380)	16.5	350.14586	264.36213	128.57329	27.43520	0.2484913	2.6114946414399
(499381)	17.3	287.42745	2.70282	63.54378	4.33259	0.1849683	2.7343588414399
(499382)	16.3	265.77829	301.39768	93.94329	10.45465	0.2895378	2.7841853414399
(499383)	17.4	313.13798	26.49336	61.53112	5.80148	0.2940994	2.5955692414399
(499384)	17.6	301.23782	312.25849	125.87336	7.02862	0.3486994	2.6270713414400
(499385)	16.8	213.59340	177.99582	332.07937	17.28632	0.1933574	2.7809825414400
(499386)	16.7	313.01689	140.89932	314.26778	12.81124	0.2042016	2.6160144414400
(499387)	16.6	113.56871	138.10841	95.22938	9.23924	0.0676286	3.0149921414400
(499388)	16.3	145.49012	5.34583	162.83740	12.14222	0.1024271	3.1176244414401
(499389)	15.6	284.76754	72.15248	327.26676	21.86486	0.0328964	3.0825428414401
(499390)	16.2	66.27869	223.32178	33.38756	10.59682	0.1824910	3.1760087414401
(499391)	15.9	8.52822	17.32947	296.44455	16.87800	0.1132831	3.1734356414402
(499392)	15.8	65.33489	263.73113	303.68112	24.47160	0.2408886	3.1734450414402
(499393)	17.2	316.15509	7.93212	49.35537	6.09800	0.3047364	2.6326646414402
(499394)	17.6	330.60045	333.61427	103.33596	7.76992	0.2837397	2.5845363414403
(499395)	16.3	95.36962	78.87540	135.06006	19.74470	0.1354280	3.2137158414403
(499396)	16.2	160.80989	26.37995	141.54894	28.46613	0.1266808	3.0903350414403
(499397)	15.8	128.97389	144.44737	63.39808	13.89171	0.1658412	3.0894451414403
(499398)	15.6	96.75863	255.27287	329.07221	24.28214	0.1195004	3.1835722414404
(499399)	18.8	336.86257	234.35859	132.94134	4.25998	0.3058884	2.5691734414404
(499400)	16.4	98.41796	71.65209	174.61412	13.89545	0.2154511	3.1270423414404
(499401)	16.4	122.87392	270.90596	282.81048	14.67543	0.0915281	3.1773602414404
(499402)	16.1	109.72156	205.01903	19.27146	10.88968	0.0806717	3.1254305414405
(499403)	16.3	128.78842	198.59261	349.48803	14.91991	0.2257663	3.1674939414405
(499404)	16.1	103.00818	230.20183	342.81444	13.35531	0.1410809	3.2119401414405
(499405)	15.6	302.51690	261.21130	132.34911	14.81821	0.1042045	3.1094586414405

(499406)	15.9	189.38816	338.05646	151.96025	28.39229	0.1148862	3.1473206414406
(499407)	16.2	162.63167	196.55995	308.96689	26.85044	0.1598420	3.1875422414406
(499408)	16.7	127.87734	188.14048	7.76237	2.59459	0.0742036	2.9826336414406
(499409)	16.4	147.54252	335.26483	199.10582	10.08148	0.1977807	3.1588230414407
(499410)	16.9	345.31302	90.23236	316.38544	9.47082	0.3445620	2.5867403414407
(499411)	16.5	85.01578	61.23809	135.53998	28.51789	0.2544311	3.1696656414407
(499412)	16.1	72.07992	79.39387	160.00655	9.21733	0.0835859	3.0989426414408
(499413)	16.0	153.66278	320.32745	150.17913	29.09900	0.1959753	3.1737571414408
(499414)	16.3	69.64194	257.07935	335.62492	24.43201	0.2656599	3.1866186414408
(499415)	16.6	296.46275	328.25935	135.91632	12.84499	0.2045450	2.6551533414409
(499416)	16.4	214.50836	240.65791	269.43754	8.08688	0.1890455	2.8013475414409
(499417)	17.4	312.98359	113.73888	346.88422	29.52051	0.3540502	2.6138591414409
(499418)	16.6	261.29321	310.79719	153.84295	13.01414	0.1273303	2.7668064414409
(499419)	16.4	89.37776	110.54921	159.89124	14.06807	0.2298323	2.9775393414410
(499420)	17.1	332.89422	260.45357	151.35902	11.75976	0.1917699	2.6737178414410
(499421)	17.5	311.12955	112.10234	334.31707	3.55876	0.2114558	2.6732244414410
(499422)	16.8	257.90180	322.21036	172.87964	12.97046	0.1617025	2.7677284414410
(499423)	16.6	109.60513	245.62644	348.82393	16.97087	0.1229296	2.9837292414411
(499424)	17.1	43.46651	170.72980	127.50832	3.08295	0.0740317	2.8996630414411
(499425)	17.2	207.13715	2.56845	133.42634	7.95312	0.0370236	2.8877304414411
(499426)	17.0	347.63915	60.05261	330.71515	11.75947	0.2711146	2.6570348414411
(499427)	16.6	306.42848	24.06356	336.95960	9.97434	0.0261160	2.9992428414412
(499428)	16.8	289.94090	300.32072	127.27029	7.04609	0.0490811	2.7987877414412
(499429)	16.7	122.02537	212.88119	337.13468	8.15790	0.0827064	3.0367557414412
(499430)	16.9	87.90712	64.71292	155.89343	2.31769	0.1702394	3.1386730414413
(499431)	16.6	117.39834	45.56591	153.60034	11.48586	0.1430503	3.0855725414413
(499432)	16.9	142.30144	196.48228	330.22106	5.27200	0.1118261	3.0365467414413
(499433)	17.3	269.16685	68.83565	53.96167	8.56784	0.2559885	2.6780185414413
(499434)	16.6	134.39889	202.18511	338.38897	9.18684	0.0975789	3.0241769414414
(499435)	17.3	329.02233	263.93761	163.23998	12.77175	0.2810855	2.6197255414414
(499436)	16.3	43.14780	294.54402	30.46731	9.34801	0.1426773	3.0768691414414
(499437)	16.8	195.22268	266.51869	220.36724	6.71913	0.1828971	2.7746032414414
(499438)	16.1	278.61870	118.30956	298.90442	15.61897	0.0793272	3.1291226414415
(499439)	17.9	350.40068	13.37679	6.62546	4.42351	0.2292063	2.5409211414415
(499440)	15.9	105.71702	220.58591	30.45452	28.19056	0.1652437	3.1367938414415
(499441)	16.6	266.70825	266.25953	156.89747	11.56554	0.0916883	2.9213128414416
(499442)	18.7	65.14479	263.60575	329.52514	13.63946	0.2411541	1.7355725414416
(499443)	15.7	36.65218	154.38188	193.10804	28.02044	0.2007866	3.1512659414416
(499444)	17.3	325.50678	240.79066	185.26744	10.97467	0.1891674	2.5737221414416
(499445)	16.5	206.44423	23.04688	182.89750	13.92867	0.1287252	2.7754098414416
(499446)	15.5	125.42954	221.69565	312.35839	13.00295	0.1811349	3.1206602414417
(499447)	16.6	161.36461	183.54458	3.70757	9.02978	0.1180684	2.9917262414417
(499448)	16.1	133.89893	180.37212	15.75990	12.61446	0.1256860	3.0876534414418
(499449)	17.0	110.23978	90.33967	137.29484	2.59556	0.0788177	2.9938182414418
(499450)	16.6	70.43755	86.54732	157.35610	4.08885	0.0571288	3.0984875414418
(499451)	16.8	295.30715	291.59687	150.81396	13.59729	0.0697725	2.7266822414418
(499452)	16.6	92.61280	172.85598	100.58719	3.12989	0.0621893	2.8883091414419
(499453)	16.5	165.28591	345.18450	168.99257	13.27557	0.1242382	3.0961391414419
(499454)	16.6	149.49141	18.78795	166.92859	9.11865	0.0746226	3.0006682414419
(499455)	17.8	300.32107	45.06058	58.30387	6.39155	0.3678972	2.6472296414420
(499456)	15.7	116.83958	63.99709	108.87429	27.07086	0.1354381	3.2090196414420
(499457)	16.7	81.94264	69.00398	164.79085	22.71449	0.1306466	3.0981635414420
(499458)	16.4	191.77902	157.01747	356.06331	8.96189	0.1204507	2.9750771414420
(499459)	15.6	54.43247	278.11718	358.40637	20.96050	0.0886357	3.0926793414421
(499460)	16.7	141.13329	190.37022	8.90890	5.22949	0.1288542	3.0357075414421
(499461)	16.7	65.12103	72.40635	182.60678	13.64782	0.2404029	3.1996881414421
(499462)	15.8	49.36967	149.08855	109.22264	16.33355	0.0750937	3.1654121414422
(499463)	16.4	276.84969	65.86674	355.97553	8.70030	0.0599260	2.9846154414422
(499464)	16.2	279.57625	320.36480	110.16756	3.22103	0.0435305	2.9445875414422
(499465)	18.4	71.94001	17.68550	163.80999	4.35646	0.1399292	2.2743629414422
(499466)	16.4	181.71615	94.43604	68.47018	10.31550	0.0554769	3.0652267414423
(499467)	16.6	204.07058	359.49129	173.37081	8.49075	0.1189561	2.9395233414423
(499468)	16.0	53.23711	249.85186	60.51335	17.14137	0.1445780	3.1038347414423
(499469)	17.0	117.20814	51.69238	173.06320	10.14319	0.1558580	3.1317329414423
(499470)	17.5	268.40190	118.28105	357.08970	7.27775	0.1745582	2.8127777414423
(499471)	15.8	114.64963	48.69076	178.43113	16.59810	0.1529328	3.1269335414424
(499472)	16.3	114.53664	56.45131	161.01026	10.60518	0.1617471	3.1426165414424
(499473)	16.8	192.59464	357.40789	124.91550	10.01199	0.0765434	2.9503468414424
(499474)	16.6	31.41444	96.72239	197.63264	24.21858	0.2427859	3.2078451414425
(499475)	18.0	43.68354	183.57548	113.82793	9.24525	0.2375182	2.2062641414425
(499476)	16.5	40.55112	197.67254	116.82401	7.51729	0.0191643	3.1213530414425
(499477)	18.5	54.58598	149.97729	126.84779	4.82739	0.1989858	2.2000274414425
(499478)	18.2	18.21263	193.62909	119.10345	5.97722	0.1766575	2.2183590414426
(499479)	18.0	149.81899	306.11976	112.51048	24.56161	0.1215768	1.8544226414426
(499480)	16.3	188.40865	286.23803	229.93850	12.70007	0.0743303	2.8860292414426
(499481)	16.2	72.05585	83.43685	152.32753	27.12211	0.1277513	3.0920893414427
(499482)	16.3	42.90514	249.53103	58.94521	11.31414	0.0537994	3.1366919414427
(499483)	16.5	91.91633	173.55323	76.01424	2.65354	0.1346649	3.1835073414427
(499484)	18.3	1.70158	185.14265	160.90208	6.47639	0.2668320	2.2966924414427
(499485)	16.3	124.04981	81.78416	144.93605	11.79782	0.0347086	3.0440023414428
(499486)	16.6	145.67657	9.08012	167.46940	15.21031	0.1038800	3.0151581414428
(499487)	17.6	333.55028	205.92808	161.38748	9.42960	0.2280782	2.3378548414428
(499488)	18.5	65.71690	57.33420	176.63965	4.70781	0.1689118	2.2436153414429
(499489)	17.9	356.19381	163.88588	179.45199	5.16228	0.2478481	2.3286273414429
(499490)	19.1	354.96542	105.60066	246.30469	21.35467	0.4708194	2.2773854414429
(499491)	18.0	276.86509	43.29815	11.67337	2.62314	0.1092689	2.3874059414429
(499492)	18.0	344.82069	357.52787	338.41712	4.58791	0.1329793	2.3786000414430
(499493)	17.7	334.65883	85.87109	297.17366	9.28117	0.2539784	2.3345424414430
(499494)	18.1	1.09805	84.54967	237.75228	2.17269	0.1923360	2.3603531414430
(499495)	18.1	352.87414	44.32865	317.20767	8.19159	0.2450925	2.3233951414431
(499496)	19.4	28.58581	132.48904	195.29882	34.99112	0.3906587	1.7338644414431
(499497)	17.0	42.47498	335.30205	294.18803	12.48882	0.2495736	2.3488971414432
(499498)	17.7	34.89232	296.50271	15.95055	6.04741	0.1873981	2.3048686414432
(499499)	15.6	294.62166	104.77208	280.76652	17.45023	0.0435132	3.1665199414432
(499500)	16.3	161.39405	169.36893	4.53369	4.80927	0.0611198	3.0739034414433
(499501)	17.8	357.13385	209.01672	128.71458	7.16180	0.2510511	2.3493058414433
(499502)	15.6	309.66522	59.39973	320.96394	4.19657	0.2125773	3.9929740414433
(499503)	16.8	125.81137	259.23023	74.55497	7.51118	0.1042014	3.1196521414433
(499504)	18.2	3.48809	147.57119	180.86117	3.19082	0.2003877	2.3492207414434
(499505)	18.0	346.81952	141.21852	211.66421	8.65659	0.2221516	2.3594498414434
(499506)	18.2	356.58072	300.42271	51.28581	6.97748	0.2795108	2.3359039414434
(499507)	15.9	5.32702	210.54605	104.99066	4.03246	0.2187811	3.9265037414435
(499508)	16.2	43.86572	344.98861	320.75258	26.85247	0.1077231	3.1234031414435
(499509)	18.0	335.87337	53.04515	335.32662	7.71818	0.2468704	2.3408869414435

(499510)	15.7	87.62824	324.85550	50.69267	15.56534	0.0862209	3.1862598414435
(499511)	17.8	22.48391	292.64776	27.54376	5.59485	0.2685417	2.3300706414436
(499512)	16.1	167.31513	349.30655	161.66823	11.10932	0.1727418	3.1509919414436
(499513)	18.1	334.55864	343.90664	40.46354	5.78543	0.2418075	2.3549502414436
(499514)	4.6	238.88652	248.02125	219.68409	25.92301	0.1300592	42.1258362414437
(499515)	18.2	18.03943	2.71684	315.74857	1.83702	0.1984720	2.2841377414437
(499516)	17.9	355.48203	111.26389	224.87897	1.52604	0.2377811	2.3117556414437
(499517)	18.0	16.07124	151.71089	154.78971	6.71808	0.2875284	2.3082260414438
(499518)	16.3	113.86633	48.67862	169.15478	22.32060	0.0898694	3.2052283414438
(499519)	17.6	327.04186	62.97822	325.50280	23.15695	0.2729976	2.3134119414438
(499520)	18.2	8.61121	151.41563	170.57854	5.14560	0.1839591	2.3180210414439
(499521)	18.7	22.06076	155.31976	140.70774	2.76341	0.2210977	2.3275206414439
(499522)	7.6	290.68981	96.76384	8.47165	24.35321	0.3809460	21.1108150414439
(499523)	17.6	27.15782	184.58020	143.55441	5.91726	0.2148689	2.2656617414439
(499524)	18.0	19.87855	336.91992	346.53964	1.65493	0.2515703	2.2855900414439
(499525)	17.9	350.50259	165.20721	164.46758	2.78123	0.2169757	2.3449651414440
(499526)	16.7	132.27756	220.54744	253.73301	10.18904	0.1373985	2.5780972414440
(499527)	17.8	313.30675	139.79032	266.74585	5.55229	0.1751670	2.2974303414440
(499528)	18.8	17.90069	326.25910	3.47264	2.63371	0.2432787	2.3044119414441
(499529)	18.1	310.51309	31.02355	8.08188	5.44029	0.2381851	2.3616628414441
(499530)	18.0	20.85104	141.74266	200.62568	5.33544	0.1739406	2.2797496414441
(499531)	17.8	359.07818	191.32603	177.16171	5.99128	0.1791752	2.2749273414441
(499532)	18.1	341.36422	277.87897	63.77152	3.23011	0.2033874	2.3505833414442
(499533)	18.1	29.17859	77.42209	226.77273	5.63522	0.2336543	2.2991491414442
(499534)	17.7	21.50574	341.94523	0.82201	10.55755	0.1663505	2.2805406414442
(499535)	16.9	90.99492	267.27607	103.04936	2.07310	0.1910851	3.0791860414442
(499536)	18.5	337.48023	34.53875	328.94988	3.60981	0.2812443	2.3407645414443
(499537)	18.3	297.72945	97.59495	310.33696	8.75961	0.1611559	2.3372719414443
(499538)	18.2	21.06431	90.94050	206.48060	6.55181	0.1143565	2.3745848414443
(499539)	18.3	320.22826	125.46900	265.57841	2.12128	0.1789128	2.3439141414443
(499540)	18.2	352.75043	20.56875	310.72410	1.38085	0.1134039	2.3787489414444
(499541)	18.1	333.63511	331.43492	29.08606	1.76360	0.2064734	2.3592646414444
(499542)	18.0	68.24120	305.43866	347.77449	3.99263	0.1617373	2.2599834414444
(499543)	18.2	323.35491	218.37039	145.95346	1.72395	0.2038727	2.3746420414444
(499544)	18.0	327.15140	47.94638	320.10097	4.67406	0.2000670	2.3656293414445
(499545)	17.8	283.79714	288.16634	133.49059	3.01698	0.1742213	2.3844421414445
(499546)	17.9	17.09778	6.42951	303.34058	1.68334	0.2111896	2.3300701414445
(499547)	17.8	19.75435	142.23347	167.20500	5.66300	0.1572379	2.3518204414445
(499548)	18.2	355.71228	265.52917	70.37550	3.01230	0.2342690	2.3438543414446
(499549)	16.9	138.51466	137.58780	20.01074	12.87799	0.0632764	2.4648395414446
(499550)	18.3	4.83624	224.01227	99.99968	2.45081	0.1918882	2.3491128414446
(499551)	18.3	12.11359	332.44909	15.28061	6.38202	0.2365724	2.3013735414446
(499552)	18.2	357.21611	25.22479	322.73192	6.11239	0.1421498	2.3323474414447
(499553)	18.3	302.80086	173.23765	232.81689	5.24206	0.2173601	2.3570026414447
(499554)	18.4	345.71331	26.20613	316.95909	3.26936	0.2064054	2.3569673414447
(499555)	18.3	6.08047	318.47373	354.29379	4.88265	0.1547344	2.3799989414447
(499556)	17.9	1.73408	134.55911	196.43717	3.00347	0.2412688	2.3451898414447
(499557)	17.5	348.87085	329.64330	4.62586	7.18849	0.1454677	2.3786776414448
(499558)	18.6	300.86019	14.33772	22.56667	1.34084	0.1960356	2.3884064414448
(499559)	18.0	321.13443	51.36649	349.10690	6.59257	0.1164495	2.3093880414448
(499560)	18.2	283.58326	223.17748	219.40432	5.42628	0.1846250	2.3475732414449
(499561)	18.0	6.62324	268.32667	64.13485	3.64421	0.2090587	2.3348255414449
(499562)	18.3	305.23842	65.64983	354.05086	4.48605	0.1550622	2.3026482414449
(499563)	18.2	4.02151	199.73251	181.48551	7.75476	0.1316722	2.2698509414449
(499564)	17.7	281.95899	338.81413	101.04509	5.08465	0.2027279	2.4007233414450
(499565)	18.4	290.14471	147.93252	287.86053	1.59351	0.1607288	2.3076718414450
(499566)	18.3	351.43385	187.04526	164.06123	2.55545	0.2036429	2.3466153414450
(499567)	18.8	0.18938	7.06503	1.69254	6.19923	0.1508772	2.2904502414450
(499568)	17.7	7.48830	303.25586	9.75240	4.41392	0.2555906	2.3413532414450
(499569)	18.1	20.42607	299.57346	15.76978	8.14773	0.1410624	2.3298676414451
(499570)	18.3	355.09237	343.21226	13.55857	5.85368	0.2066138	2.3280420414451
(499571)	18.3	17.38503	6.77624	296.22256	0.65394	0.1908784	2.3755951414451
(499572)	18.0	328.25541	331.14488	39.34562	1.03107	0.2303575	2.3606774414451
(499573)	18.0	340.98592	97.65002	250.01606	3.34938	0.2146062	2.3642854414452
(499574)	17.8	284.11644	60.70050	351.90079	4.57798	0.2034161	2.3977890414452
(499575)	18.4	278.68767	62.28085	32.53505	2.07200	0.1417940	2.3306393414452
(499576)	18.0	325.66490	279.11803	106.90714	5.53555	0.2101245	2.3414351414453
(499577)	18.5	28.09322	133.70397	157.20050	1.07661	0.2190265	2.3475551414453
(499578)	17.1	0.45861	263.44850	87.35579	6.48288	0.2510736	2.3325644414453
(499579)	18.1	189.16027	176.99830	317.17330	4.59555	0.0591325	2.4094924414454
(499580)	18.1	255.89459	214.32411	256.38332	5.84003	0.1977880	2.3577974414454
(499581)	18.3	331.05763	54.50012	312.90979	3.70294	0.1612101	2.3624680414454
(499582)	20.5	271.34268	201.40219	254.24532	6.82614	0.3100834	1.4644047414454
(499583)	18.1	348.03620	116.43305	236.98289	1.67645	0.2189738	2.3506735414455
(499584)	18.7	345.96578	33.79914	337.23169	5.23285	0.1780843	2.3248366414455
(499585)	18.1	74.57510	257.51816	9.98768	6.96590	0.0958689	2.3447270414455
(499586)	18.9	316.46685	95.76174	320.63563	1.51420	0.2004685	2.3206440414456
(499587)	18.2	306.91525	264.70259	147.50850	2.64451	0.1892794	2.3542929414456
(499588)	17.6	343.07004	37.07555	331.70308	3.74708	0.2125762	2.3444382414456
(499589)	17.3	355.40840	344.39379	10.07731	9.32679	0.1195934	2.3540361414456
(499590)	18.4	20.03965	45.55760	252.98780	1.27346	0.2109693	2.3486870414457
(499591)	17.8	6.59932	21.01386	338.70564	7.10332	0.1419451	2.2958848414457
(499592)	18.1	323.52687	155.88834	224.61954	3.54353	0.2085376	2.3466384414457
(499593)	18.2	270.77698	76.79275	24.25044	9.26830	0.1743473	2.3384214414457
(499594)	18.2	16.41873	281.31299	26.98841	2.03934	0.1257243	2.3653222414458
(499595)	18.1	322.90047	113.24337	276.52037	3.77130	0.2709416	2.3450369414458
(499596)	18.9	310.88684	246.72833	159.51991	1.32759	0.1891656	2.3415956414458
(499597)	18.3	282.87554	255.60528	183.17260	6.45004	0.0531999	2.3211059414458
(499598)	18.6	336.88796	28.31018	16.94664	4.22487	0.2273596	2.2988913414459
(499599)	18.4	214.30719	270.90234	216.69612	20.13184	0.1316283	1.8089043414459
(499600)	18.2	302.32759	177.68472	237.27948	2.95212	0.1033843	2.3168621414459
(499601)	17.6	340.11640	344.11545	48.88082	13.26476	0.1977146	2.3252025414459
(499602)	17.5	354.60228	78.46844	271.45775	5.79788	0.1373826	2.3501814414460
(499603)	17.9	33.35222	245.74260	47.47614	2.36681	0.2388167	2.3372012414460
(499604)	18.3	293.16681	315.67893	91.00794	2.53091	0.1827452	2.3924699414460
(499605)	18.8	340.58385	183.73132	195.21815	1.89810	0.1968333	2.3342638414460
(499606)	18.1	347.36788	343.44959	16.49686	4.51465	0.2409117	2.3429382414461
(499607)	17.9	6.58200	128.71855	220.98902	4.45538	0.1721245	2.3236891414461
(499608)	16.9	48.70256	20.49381	199.14338	7.63353	0.0944430	2.5770281414461
(499609)	17.4	330.44212	355.59673	56.64688	8.75168	0.2059363	2.2842502414462
(499610)	18.4	10.82781	202.95533	145.98144	5.25599	0.2376432	2.2984186414462
(499611)	17.6	9.05155	326.28582	353.05417	11.21460	0.2293746	2.3529564414462
(499612)	18.0	333.41072	227.57323	142.84805	3.27141	0.2135954	2.3810807414462
(499613)	18.1	341.30365	227.83048	146.31096	1.78045	0.2005217	2.3428931414463

(499614)	18.4	2.56610	171.22200	176.78357	0.54469	0.1987712	2.3380576414463
(499615)	17.9	352.60385	244.84486	90.09021	2.34475	0.1978598	2.4068172414463
(499616)	17.4	297.20340	127.00900	309.05330	4.21607	0.1836047	2.3790462414463
(499617)	18.0	310.55115	59.33354	354.75348	5.94635	0.0850264	2.3799955414464
(499618)	18.6	305.78994	155.17242	243.77162	1.36953	0.2280794	2.4091929414464
(499619)	17.6	353.82931	291.63247	60.91847	3.55175	0.1344485	2.3599165414464
(499620)	18.1	8.44254	93.08163	240.19445	8.79551	0.2171618	2.3563294414465
(499621)	18.3	281.34276	168.68026	247.72161	1.68465	0.1979638	2.4360544414465
(499622)	17.8	296.72025	323.19038	101.18555	2.84956	0.1893740	2.3645298414465
(499623)	17.9	316.11389	191.56284	219.74211	1.56055	0.1974020	2.3557998414466
(499624)	18.1	250.85768	182.62999	262.12417	6.09163	0.0827022	2.4080467414466
(499625)	18.0	333.76148	222.52623	142.55351	2.72500	0.2385476	2.3682114414466
(499626)	15.2	350.94122	29.84791	320.39528	1.87256	0.2252694	3.9777088414466
(499627)	18.2	332.95004	86.06275	321.67878	3.32817	0.2266203	2.3290797414467
(499628)	17.3	26.72964	135.61511	108.72741	3.36761	0.1089994	2.5541226414467
(499629)	17.7	355.95322	211.01014	133.04463	2.94645	0.2295131	2.3513616414467
(499630)	17.7	187.47258	160.25970	20.24375	7.18360	0.0534676	2.3078028414468
(499631)	18.3	315.34290	43.96996	347.96057	2.90256	0.1878947	2.3920073414468
(499632)	17.3	281.06368	121.08133	256.84026	11.04360	0.1829926	2.5272984414468
(499633)	17.3	309.81713	124.38747	292.27783	5.15920	0.0229870	2.3648297414468
(499634)	17.9	335.22654	46.98003	310.62983	5.96869	0.1373170	2.3965192414469
(499635)	17.7	225.91909	212.98545	283.08625	5.55848	0.0660032	2.3779101414469
(499636)	17.6	334.07176	95.17271	273.61177	5.35829	0.1384072	2.3662282414469
(499637)	17.9	331.54082	334.89073	45.68435	3.02005	0.2140613	2.3455557414469
(499638)	17.8	15.36846	99.57979	240.86510	3.97777	0.2695384	2.3316328414469
(499639)	17.9	311.73452	6.57656	20.18048	2.65128	0.1974022	2.3958123414470
(499640)	18.3	340.79834	300.18688	72.34300	3.43190	0.2023026	2.3777129414470
(499641)	18.0	38.64000	186.56823	120.43042	2.97864	0.2078783	2.3561971414470
(499642)	18.2	306.51130	345.28652	85.41522	4.13250	0.1598349	2.3739691414470
(499643)	17.9	328.65065	18.12888	2.22856	7.03239	0.1268852	2.3855228414471
(499644)	18.6	296.52690	346.53208	80.20836	3.60351	0.1538022	2.3769530414471
(499645)	17.7	355.83763	300.66715	68.92044	3.64539	0.2246644	2.3383371414471
(499646)	17.6	275.90368	92.26915	342.60184	5.55611	0.0753454	2.4142235414472
(499647)	18.4	324.39468	9.82562	24.94263	3.00726	0.2196135	2.3427729414472
(499648)	17.5	235.18857	332.33800	132.94804	5.61221	0.1839049	2.4656384414472
(499649)	18.3	281.54237	329.54644	125.50739	1.75938	0.1376854	2.3613815414472
(499650)	15.1	342.13290	311.29062	58.77929	6.03762	0.2055081	3.9891961414473
(499651)	18.2	3.30567	323.63731	16.19880	2.81682	0.2047448	2.3752038414473
(499652)	18.6	317.01429	43.14320	8.12480	1.58634	0.1681194	2.3694121414473
(499653)	17.7	268.92941	217.94815	232.46699	7.98904	0.2070980	2.4098454414473
(499654)	18.2	358.10228	330.29181	24.38860	1.80937	0.1990539	2.3455073414474
(499655)	18.1	286.32265	10.49539	55.46761	3.40306	0.1616130	2.4034742414474
(499656)	18.2	338.48695	153.43915	210.57934	1.26540	0.2174971	2.3774021414474
(499657)	18.1	258.78934	331.33752	113.79517	2.62184	0.1388452	2.4402169414474
(499658)	18.1	3.45812	254.87320	112.19447	3.57496	0.1359431	2.3239189414475
(499659)	18.2	312.82691	40.95047	353.91260	6.94700	0.1978239	2.3815418414475
(499660)	18.1	296.55459	12.11235	81.74869	3.14085	0.1684901	2.3457030414475
(499661)	17.1	98.97025	27.44859	27.28819	4.60907	0.1728538	3.0461970414475
(499662)	18.2	206.27318	19.23490	64.56812	22.98866	0.0945530	1.8856442414476
(499663)	18.2	339.31307	302.91730	72.88983	3.56781	0.2424514	2.3564287414476
(499664)	18.6	326.43261	356.65155	51.76815	3.19360	0.2353502	2.3436367414476
(499665)	18.2	347.29840	243.61109	132.58382	3.33223	0.2401311	2.3346191414477
(499666)	18.1	234.67806	50.82429	87.39849	5.91167	0.0474006	2.3698293414477
(499667)	18.2	315.13311	135.02250	268.88343	4.28817	0.1743586	2.3786943414477
(499668)	18.2	338.79945	104.08091	267.57587	1.75584	0.1801093	2.3761049414477
(499669)	18.9	337.80242	337.19376	40.69436	4.97333	0.2723647	2.3622210414478
(499670)	18.2	308.10467	19.77235	39.82456	5.35668	0.1951575	2.3689342414478
(499671)	18.3	333.57399	340.62174	50.85354	3.34101	0.1952770	2.3686383414478
(499672)	18.4	326.73317	352.29193	51.81578	5.05942	0.4556712	2.3532988414478
(499673)	17.5	344.11451	19.55910	0.90992	5.12580	0.2211890	2.3363275414479
(499674)	17.8	308.44485	112.20354	285.31544	11.14071	0.2292300	2.3842261414479
(499675)	17.2	275.80179	351.33646	91.80399	12.41086	0.2364308	2.4190440414479
(499676)	18.1	320.16717	52.72444	310.40502	5.46830	0.1549732	2.4078223414480
(499677)	18.0	309.65098	33.73021	27.16034	7.14835	0.0934357	2.3395863414480
(499678)	17.8	349.94668	15.35894	321.54644	6.52708	0.2727376	2.3690268414480
(499679)	18.0	323.03657	341.08245	34.68478	3.35919	0.1802920	2.3934764414480
(499680)	18.1	2.40357	107.85325	235.05809	5.85647	0.1387885	2.3629910414481
(499681)	18.4	10.38728	336.13849	25.36947	7.23977	0.1272597	2.3099836414481
(499682)	17.9	264.13079	187.09955	261.71400	1.55272	0.1795259	2.4188354414481
(499683)	18.3	263.06227	118.80807	334.17297	0.86224	0.1485821	2.3960297414481
(499684)	17.6	157.56213	156.97863	49.51867	7.58881	0.0536131	2.3701197414482
(499685)	17.8	333.75915	272.43177	123.12192	1.99963	0.1890088	2.3554021414482
(499686)	18.4	254.87710	224.82605	253.03445	1.56339	0.1998481	2.4133795414482
(499687)	17.5	80.35506	351.09636	268.52885	2.75860	0.1470314	2.4491394414482
(499688)	18.0	307.69511	350.21613	65.97870	5.66539	0.1744616	2.3900838414483
(499689)	18.4	298.89678	342.92193	71.97610	2.09818	0.1352375	2.4206692414483
(499690)	18.1	247.75891	221.09942	256.01561	1.73053	0.1632304	2.4315843414483
(499691)	18.4	253.52043	147.06467	325.93627	0.52868	0.1900771	2.4277192414484
(499692)	18.2	328.57264	332.69096	69.39068	3.16323	0.2139509	2.3691228414484
(499693)	17.1	230.62445	153.48254	333.33368	5.53201	0.0923469	2.4378240414484
(499694)	17.6	324.95897	289.36352	122.91024	5.32573	0.1726857	2.3551993414484
(499695)	17.8	323.67854	178.66046	242.71122	9.13927	0.1818546	2.3362671414485
(499696)	18.3	253.78406	19.23390	101.67979	3.10038	0.1843887	2.4187662414485
(499697)	17.1	251.41923	232.63966	207.33484	6.48565	0.1538195	2.5542538414485
(499698)	16.6	249.47983	79.96425	7.97015	11.18059	0.1482421	2.5272892414485
(499699)	17.8	272.20353	121.00306	337.07780	4.35720	0.1916287	2.4424555414486
(499700)	16.7	167.96219	238.86748	290.19685	14.07040	0.0565361	2.5733999414486
(499701)	17.4	246.03745	119.96419	358.57623	0.60278	0.1267907	2.4862026414486
(499702)	18.2	290.58166	19.60698	44.02825	2.37430	0.1677127	2.4636822414487
(499703)	18.0	259.56302	230.48845	233.73053	0.47962	0.1414002	2.4733842414487
(499704)	17.7	343.72219	20.72126	318.17430	19.12834	0.0674253	1.8872782414487
(499705)	16.8	73.41040	270.42397	308.18826	15.90752	0.1933327	2.8015658414487
(499706)	16.4	176.69851	260.03306	278.37662	12.33371	0.0781609	2.5483936414488
(499707)	18.2	289.45299	152.85482	283.45556	0.86323	0.1586319	2.4676624414488
(499708)	17.5	250.66850	112.05999	326.07358	8.03642	0.1940323	2.5877128414488
(499709)	16.5	83.70195	271.55225	314.23980	11.21129	0.1064969	2.6970537414489
(499710)	15.8	298.26003	19.98962	112.63558	8.75625	0.1510539	3.9676870414489
(499711)	17.3	179.93051	218.38667	308.65509	5.46229	0.0963474	2.5881840414489
(499712)	18.6	320.02630	129.82355	282.43760	1.80325	0.1919633	2.4252043414489
(499713)	17.9	328.59585	318.63788	115.89036	5.44709	0.1508482	2.3659199414490
(499714)	17.4	209.88782	24.45879	106.84423	4.40879	0.0758815	2.5837723414490
(499715)	17.4	227.42133	347.63767	123.48291	12.20939	0.1826051	2.5738771414490
(499716)	16.6	153.51210	204.21212	302.60792	12.33907	0.1067360	2.6677640414490
(499717)	18.3	131.22928	265.15296	316.35459	17.61916	0.0331596	1.8629537414491

(499718)	16.9	258.45027	89.98204	31.14063	8.69035	0.1558226	2.4668125414491
(499719)	17.9	311.95099	282.47871	120.33859	2.90612	0.2224320	2.4537753414491
(499720)	17.9	305.04843	306.93294	109.67531	3.70937	0.1801535	2.4533648414492
(499721)	18.0	284.91854	26.30935	20.87461	1.67401	0.1732140	2.5336343414492
(499722)	17.2	167.19240	208.84965	302.33381	11.49399	0.1290457	2.6527895414492
(499723)	17.6	248.28198	331.78769	110.82285	5.40531	0.1450638	2.5644488414492
(499724)	17.8	244.17148	123.82100	334.44096	3.07125	0.0282460	2.5568262414492
(499725)	16.4	354.96884	36.35949	296.16732	27.63834	0.1190821	2.5992501414493
(499726)	17.3	200.08095	173.06513	318.34237	8.42501	0.1244176	2.6385510414493
(499727)	18.1	309.35564	104.76364	303.15943	1.64456	0.1732812	2.4798734414493
(499728)	17.0	143.46140	237.67639	312.88068	10.75383	0.1426037	2.6583572414493
(499729)	16.4	202.23674	184.03451	324.64104	13.51485	0.1110980	2.6229081414494
(499730)	17.3	155.09639	275.68520	258.52281	1.19406	0.1411680	2.6808055414494
(499731)	17.8	253.89506	109.29132	16.56372	3.67481	0.1737764	2.4640257414494
(499732)	17.3	77.90730	220.28379	24.68428	1.24738	0.1082608	2.6466837414495
(499733)	17.6	65.94994	234.28012	7.96007	4.29982	0.0886203	2.7025139414495
(499734)	17.4	278.44965	304.88809	100.82712	10.81990	0.0988650	2.5880960414495
(499735)	17.1	54.88235	344.20462	311.02935	21.78174	0.0112991	2.5726522414496
(499736)	17.5	276.67880	97.82686	357.46671	4.86177	0.1648747	2.4630894414496
(499737)	17.5	323.15462	184.47115	209.47609	3.08372	0.2440543	2.4808783414496
(499738)	16.4	85.54382	258.64653	340.83061	13.22842	0.1271615	2.7177373414496
(499739)	16.8	144.62948	30.73612	131.85768	12.56870	0.1275968	2.7681368414497
(499740)	17.5	237.01281	132.73082	337.25427	15.59613	0.2142425	2.5944862414497
(499741)	17.6	236.22962	235.83095	243.98329	3.36029	0.1712781	2.5575188414497
(499742)	17.0	328.06138	73.29868	289.46691	10.94875	0.1911403	2.6271497414498
(499743)	17.2	13.67625	194.05160	156.53745	14.45781	0.1982074	2.5222069414498
(499744)	17.4	351.33303	202.68113	152.23013	14.92931	0.1162150	2.6084272414498
(499745)	17.7	252.40055	138.25156	301.05908	15.63212	0.1069694	2.5904309414498
(499746)	17.8	267.68992	99.26508	355.99726	1.91417	0.1386053	2.4804277414499
(499747)	17.6	140.68623	33.58158	165.64291	4.23786	0.1530355	2.6475872414499
(499748)	17.7	334.25593	155.65667	240.63274	2.48299	0.2230403	2.4408777414499
(499749)	18.5	133.76427	252.97589	314.18496	17.10447	0.0462243	1.8841716414499
(499750)	16.6	57.73704	129.55233	126.98428	12.06437	0.0408890	2.6841007414500
(499751)	17.5	312.04423	223.75403	201.21221	0.71334	0.1752868	2.4681778414500
(499752)	17.4	275.85399	206.99350	223.03936	4.29795	0.2348489	2.5369580414500
(499753)	17.7	239.26250	219.47599	243.85814	3.49133	0.2264027	2.5783233414501
(499754)	17.7	241.19760	43.04195	76.72609	5.20468	0.0947525	2.5233695414501
(499755)	17.5	333.04346	65.83373	298.95614	15.61875	0.1874705	2.5453127414501
(499756)	17.6	124.70909	259.06684	315.24695	11.92347	0.1340386	2.6857664414502
(499757)	16.6	28.15029	8.65803	326.88601	14.56113	0.1771355	2.5668589414502
(499758)	17.5	263.26327	110.46264	317.79229	13.41404	0.0640708	2.6569621414502
(499759)	17.4	301.50958	33.54413	33.84697	5.55800	0.1124313	2.4842038414502
(499760)	18.0	288.97791	78.88892	336.63130	3.19463	0.1348161	2.5318471414503
(499761)	18.3	284.75972	179.20703	263.04743	1.71750	0.1866642	2.4888418414503
(499762)	17.4	310.53889	245.88586	135.17900	11.10014	0.1037204	2.5999295414503
(499763)	17.5	257.03981	354.38642	129.60164	10.69573	0.1381679	2.4296499414503
(499764)	17.7	240.37843	170.90770	299.87658	13.08938	0.2402248	2.5330383414504
(499765)	17.7	334.13715	240.33393	203.26450	5.11835	0.0838179	2.3692773414504
(499766)	16.9	169.03839	225.43131	306.98829	7.64626	0.0602883	2.6066775414504
(499767)	17.0	62.06955	169.88444	113.94024	10.47804	0.0556980	2.5989354414505
(499768)	17.4	287.59051	280.64568	113.72698	16.17485	0.1450253	2.6057932414505
(499769)	17.1	16.69660	321.67297	356.28184	9.26045	0.1615495	2.6131308414505
(499770)	17.8	262.66252	35.75461	66.55382	5.53966	0.1243210	2.5069711414505
(499771)	17.8	329.38470	290.60201	147.40709	7.43989	0.2076892	2.3729430414506
(499772)	17.2	193.70013	22.90430	131.32887	9.05606	0.0479425	2.5971955414506
(499773)	17.9	227.76065	3.75711	130.07635	4.95786	0.0907340	2.5528341414506
(499774)	16.4	147.17807	233.77059	311.77254	28.64940	0.0534664	2.6215012414506
(499775)	17.6	191.82476	318.64088	197.00904	3.84593	0.1904620	2.6112067414507
(499776)	16.3	127.18210	239.02824	314.63733	24.31922	0.0400558	2.6933744414507
(499777)	17.5	340.69809	17.31508	330.89071	10.28961	0.1399051	2.6008053414507
(499778)	17.3	78.05007	167.50941	74.71885	3.41020	0.0810615	2.6910273414508
(499779)	18.3	51.64460	115.81863	151.29021	23.32900	0.0367359	1.9185070414508
(499780)	17.9	309.93477	284.27525	125.56337	2.01916	0.1788543	2.4699459414508
(499781)	17.4	102.35542	272.58602	294.89600	6.36130	0.1586873	2.7851634414508
(499782)	17.9	194.98968	157.51341	10.23436	8.42157	0.1826544	2.5737671414509
(499783)	17.3	259.81483	331.76015	100.32125	10.02864	0.1401966	2.5746334414509
(499784)	16.2	39.16008	301.22109	329.05453	12.30787	0.1836251	2.7857009414509
(499785)	17.3	14.95411	333.42684	332.81093	7.98097	0.0059561	2.6807586414509
(499786)	17.5	84.01680	267.12318	337.91850	5.66733	0.0197513	2.6621806414510
(499787)	17.3	204.64716	19.44864	122.29757	3.54384	0.0802956	2.6001152414510
(499788)	17.1	25.78698	10.06853	328.65638	2.59504	0.1384260	2.5355360414510
(499789)	17.1	95.82933	150.77710	140.36510	7.27680	0.1877103	2.5236340414510
(499790)	17.2	84.45718	280.49754	316.98010	1.98540	0.0566700	2.6986233414511
(499791)	17.1	116.25625	228.14770	320.50185	12.17046	0.1487173	2.7781455414511
(499792)	17.2	317.98513	222.08040	144.35241	7.50317	0.0195959	2.6659219414511
(499793)	16.6	200.14080	11.17340	118.28431	14.56846	0.1959735	2.6317098414511
(499794)	18.0	310.93286	19.43246	345.12185	20.47393	0.0404510	1.9342951414512
(499795)	16.5	194.89002	220.85250	291.05458	13.15120	0.0938653	2.6145744414512
(499796)	17.1	305.84300	263.57536	118.86304	10.75067	0.1035754	2.6294727414512
(499797)	19.1	305.86839	251.83428	165.04935	24.86539	0.1724453	1.8569931414512
(499798)	17.6	129.31254	342.26106	212.78570	2.81522	0.0332197	2.6915706414513
(499799)	18.1	187.23060	18.49582	161.04382	5.44498	0.0933931	2.5725063414513
(499800)	17.2	351.74739	37.76392	313.52657	5.58270	0.0650071	2.6297213414513
(499801)	16.2	311.42307	80.80122	326.69738	34.43006	0.0155265	2.5851987414513
(499802)	16.7	62.38517	293.44939	320.20620	13.14501	0.0234168	2.7306966414514
(499803)	17.2	223.12192	346.71914	148.99278	22.24532	0.0154187	2.5844992414514
(499804)	17.1	234.27188	142.19878	307.66668	10.88580	0.1535392	2.6537325414514
(499805)	17.7	146.79162	351.19316	187.27466	3.01501	0.0487897	2.6913509414515
(499806)	17.7	341.72271	132.72946	207.62655	5.20678	0.0335235	2.6922232414515
(499807)	16.9	109.27083	274.99025	315.83814	11.47014	0.1196525	2.6763424414515
(499808)	17.2	235.51048	134.58622	304.78626	12.09428	0.0150854	2.7270416414515
(499809)	18.0	240.61579	315.95545	171.97776	5.83574	0.0274118	2.5564279414516
(499810)	17.7	162.53170	25.79588	157.62221	9.18869	0.0590717	2.6440426414516
(499811)	17.5	266.50502	296.01967	150.82657	22.13166	0.0567821	2.5910077414516
(499812)	17.7	130.10969	230.22370	340.95074	1.94262	0.0718641	2.6707991414516
(499813)	17.4	341.97263	32.94605	295.14529	5.50316	0.0223932	2.7537710414517
(499814)	17.3	108.27544	324.90916	260.63947	4.31410	0.1096627	2.6924152414517
(499815)	16.9	55.79331	113.02956	166.65621	14.04675	0.2739220	2.7498619414517
(499816)	17.6	280.40143	83.66374	333.66031	11.17973	0.1399345	2.6201250414518
(499817)	17.8	222.16062	139.99468	7.79096	3.46792	0.2095023	2.5816426414518
(499818)	16.9	220.49148	137.33818	355.78971	28.89777	0.1828314	2.6247087414518
(499819)	16.9	125.53999	209.56420	350.99896	13.01969	0.1049311	2.7549867414518
(499820)	16.5	161.34807	199.08356	345.95592	21.66777	0.1181374	2.6720935414519
(499821)	18.1	241.58921	132.70558	341.18155	19.74276	0.0659938	1.8713530414519

(499822)	17.9	220.10332	9.30973	141.59534	2.63836	0.0718069	2.5329116414519
(499823)	17.5	47.96203	137.21716	170.07235	3.84230	0.0669815	2.5844178414520
(499824)	16.4	201.80756	204.42454	311.20520	12.21745	0.1809676	2.6363170414520
(499825)	17.2	283.64046	120.09918	353.42966	21.90372	0.3164451	2.4241399414520
(499826)	16.9	283.57332	285.57440	167.57226	13.79220	0.0537572	2.5774577414521
(499827)	16.5	211.51324	117.41049	27.14948	14.73319	0.0441417	2.6687261414521
(499828)	17.3	96.68683	300.98216	315.63956	14.18743	0.1019289	2.5783046414521
(499829)	17.7	161.11943	10.42589	165.22271	2.59457	0.0702447	2.6526191414521
(499830)	17.2	221.20019	16.62212	117.33813	12.77413	0.1241426	2.5659593414522
(499831)	17.1	155.65367	65.93264	145.33560	7.93152	0.1118416	2.6015100414522
(499832)	17.5	262.64373	244.21374	187.33123	1.18137	0.0494378	2.6665975414522
(499833)	17.2	122.61442	247.12987	344.66863	5.42183	0.0509649	2.6605123414523
(499834)	16.0	52.12114	286.74924	350.59572	24.60580	0.1314251	2.7853003414523
(499835)	17.2	154.36403	47.56683	145.37893	6.30266	0.1777545	2.6761681414523
(499836)	16.5	73.32169	92.11836	44.98609	13.36107	0.2454647	3.1370997414523
(499837)	17.5	116.76761	44.33653	146.49923	8.83324	0.1565845	2.7731141414523
(499838)	17.6	247.06835	110.53433	329.59672	4.61235	0.1083296	2.6256072414524
(499839)	17.0	83.47031	126.00897	151.10147	13.46359	0.2558500	2.6500729414524
(499840)	17.9	195.70061	2.83006	131.16235	24.09756	0.0646267	1.9061366414524
(499841)	17.2	199.58995	166.05024	354.41543	7.61383	0.1367790	2.5882605414525
(499842)	15.7	31.79018	77.32224	122.72488	26.69236	0.1845420	3.1324947414525
(499843)	17.1	197.47727	136.63134	0.39636	4.01319	0.0988339	2.6648894414525
(499844)	17.0	279.49559	60.74791	351.50804	7.63950	0.1013909	2.6493998414526
(499845)	16.8	96.79800	126.96545	155.07246	14.82769	0.0520991	2.5566471414526
(499846)	17.1	115.41946	59.00954	159.78586	9.33485	0.0888125	2.7698044414526
(499847)	17.1	171.07066	36.70722	164.10764	9.70712	0.1145772	2.6477599414526
(499848)	17.3	72.07451	106.67595	148.86815	9.86144	0.0435451	2.7064739414527
(499849)	18.1	254.61562	138.04652	318.19628	18.54142	0.0723446	1.8692926414527
(499850)	17.9	236.49414	336.00865	162.07718	4.28915	0.1889937	2.5424892414527
(499851)	17.5	208.58082	346.79981	166.20553	14.28257	0.1961011	2.5954241414528
(499852)	16.2	53.79104	139.74991	154.78537	11.65220	0.1186213	2.7239658414528
(499853)	16.5	127.84892	242.75797	294.31516	17.85390	0.2184185	2.7997158414528
(499854)	17.7	205.44088	30.06792	143.44501	4.65052	0.1032562	2.5719145414529
(499855)	16.3	100.84928	53.55017	109.15543	10.88640	0.0941264	2.9675765414529
(499856)	17.8	211.33606	170.06900	335.75868	2.55248	0.0909117	2.6281489414529
(499857)	17.1	52.16381	176.17688	84.86360	6.49705	0.2229563	2.9300501414529
(499858)	17.3	161.20817	2.98672	179.73704	12.30643	0.0817537	2.7270247414529
(499859)	17.3	213.62423	322.58198	177.21625	18.63827	0.0959689	2.6717474414530
(499860)	16.4	145.84450	335.95057	206.08039	16.76891	0.1729053	2.7866086414530
(499861)	16.6	177.78880	188.08921	14.25264	13.82253	0.1268914	2.6146320414530
(499862)	16.5	156.70755	202.43943	12.36526	17.73951	0.1122872	2.6347239414531
(499863)	17.4	319.73934	260.22377	163.31433	5.98312	0.1187019	2.5618629414531
(499864)	17.2	63.30622	168.68049	93.26473	3.57168	0.1396076	2.8100894414531
(499865)	17.5	205.68268	49.43748	105.47858	6.11585	0.1871619	2.6196246414531
(499866)	16.1	14.97138	289.84446	41.95023	13.09800	0.0450060	2.7885429414532
(499867)	16.4	261.84945	317.77544	112.23881	7.75091	0.1013224	2.7745923414532
(499868)	16.9	162.19815	191.96632	4.71787	12.13584	0.1060465	2.6722246414532
(499869)	17.4	208.33146	138.41252	332.01042	6.66901	0.0468728	2.7999555414533
(499870)	17.2	345.61442	217.59725	155.85367	6.15349	0.1352475	2.6316960414533
(499871)	17.6	352.46118	240.34984	129.11814	2.93264	0.0506662	2.6317632414533
(499872)	16.6	161.93746	123.70170	60.28734	9.36529	0.0663735	2.7547287414534
(499873)	17.7	234.56023	319.06867	180.32875	15.12161	0.1258338	2.5843567414534
(499874)	16.7	353.90075	338.52036	27.97600	3.60083	0.0297746	2.6638769414534
(499875)	16.5	105.02437	280.73964	352.04464	12.36696	0.0188093	2.5910594414534
(499876)	16.7	0.60810	326.86760	20.24871	14.17613	0.1034574	2.7063607414535
(499877)	16.6	110.13346	189.84767	38.30605	14.50290	0.1259176	2.8087033414535
(499878)	16.9	41.27700	78.51859	144.24399	5.90318	0.0971751	3.0848471414535
(499879)	16.7	45.54399	12.53547	307.03868	4.57826	0.0407990	2.6648421414535
(499880)	16.8	259.60943	20.00316	91.68346	7.68623	0.2105808	2.5419080414536
(499881)	15.4	22.34406	99.02600	142.98394	11.29466	0.0785380	3.1078086414536
(499882)	17.8	196.30432	64.83942	106.26823	5.21651	0.0219506	2.6230871414537
(499883)	17.8	231.13237	319.57131	168.77078	4.18175	0.0828313	2.6051180414537
(499884)	18.7	285.94001	54.59814	18.93512	19.98818	0.0710818	1.8810544414537
(499885)	17.0	113.24061	230.95415	308.31092	5.90548	0.2518300	2.9024607414537
(499886)	16.2	94.34162	158.48268	46.19432	13.48036	0.0816212	2.8822810414538
(499887)	17.0	309.29587	34.02653	356.66915	6.89727	0.0487197	2.7052670414538
(499888)	17.4	262.59517	145.94867	305.34179	10.57446	0.0976366	2.5806346414538
(499889)	17.2	240.66990	25.17523	90.57557	6.46760	0.1706939	2.5862430414539
(499890)	17.6	187.95691	258.37608	226.27307	1.21596	0.0198397	2.8319060414539
(499891)	16.9	217.37435	333.32114	154.26496	30.57489	0.0983298	2.6631990414539
(499892)	16.9	181.55849	172.00915	330.89284	10.24843	0.1364809	2.7234036414539
(499893)	17.1	162.75536	205.26076	318.72907	8.19006	0.1620300	2.7391681414540
(499894)	17.2	197.72680	135.47788	352.38761	4.45811	0.0624403	2.7205286414540
(499895)	17.2	100.37002	267.79255	338.11972	1.50053	0.1361604	2.7308333414540
(499896)	18.1	201.12891	293.40389	217.44865	22.71997	0.1155380	1.8972837414541
(499897)	16.8	51.00442	238.67527	10.28809	4.79291	0.1915210	2.9836744414541
(499898)	16.6	63.80993	220.00092	64.76400	5.78528	0.0875513	2.7224244414541
(499899)	16.7	191.56898	57.58814	89.91391	7.65067	0.0355632	2.7305626414541
(499900)	17.4	252.43039	38.48731	92.78316	11.63753	0.1636321	2.5361551414542
(499901)	16.9	156.93234	178.11684	36.11690	13.06815	0.1234928	2.6471516414542
(499902)	16.5	92.73165	333.10582	238.34125	7.62479	0.1233856	2.9111886414542
(499903)	16.0	320.33123	57.80719	5.99606	22.16827	0.0953505	2.5948644414542
(499904)	17.1	149.94012	301.05893	263.47935	4.16887	0.0421320	2.7226319414543
(499905)	17.0	94.86748	161.78640	98.02541	4.66167	0.0466860	2.7809044414543
(499906)	17.2	145.30323	205.12982	351.92525	3.50288	0.1094917	2.7626032414543
(499907)	17.3	137.03690	146.58077	58.78931	6.09635	0.0928831	2.7218100414544
(499908)	17.9	267.70593	282.90191	199.42578	4.94393	0.1204317	2.5410933414544
(499909)	16.7	37.76388	158.32172	107.45143	9.01702	0.1988668	3.0314932414544
(499910)	18.3	246.42071	317.01443	184.05334	20.29519	0.0800992	1.8548434414544
(499911)	16.7	184.77774	156.32390	29.22269	12.42004	0.1065832	2.6467281414545
(499912)	17.3	147.48602	24.52599	188.34591	1.62747	0.1797652	2.7291604414545
(499913)	16.4	144.02415	164.52211	58.11960	11.07478	0.2288035	2.7515346414545
(499914)	17.0	173.72078	19.98292	166.44657	8.77412	0.1044800	2.6955482414546
(499915)	16.5	225.95402	74.69112	60.11141	14.32943	0.0507331	2.6925951414546
(499916)	17.2	126.00686	88.35479	127.23900	8.45315	0.1622242	2.7973649414546
(499917)	18.2	309.13735	199.55876	215.49588	20.66843	0.1078030	1.8834561414547
(499918)	17.0	176.21112	19.61894	115.20311	11.23786	0.1326850	2.8556737414547
(499919)	16.2	18.95469	141.04709	117.60083	11.97601	0.0394052	3.0343103414547
(499920)	16.8	30.01283	155.23506	116.52723	11.52505	0.0718847	2.9892113414547
(499921)	17.6	40.28849	89.44935	208.13305	20.57328	0.0840098	1.9727388414547
(499922)	17.9	316.76485	22.91347	45.95431	22.38690	0.0812614	1.8698162414548
(499923)	17.9	115.53358	359.73794	203.10882	21.29914	0.0634514	1.9901922414548
(499924)	16.5	337.66594	210.47349	218.23626	13.37334	0.1449473	2.6201232414548
(499925)	17.0	38.84903	300.14712	19.35407	6.12064	0.0223489	2.7002413414549

(499926)	17.0	93.24019	126.00354	76.34163	7.32657	0.1611038	3.0025303414549
(499927)	17.0	79.30458	45.14151	199.33236	12.21520	0.1485808	2.9316220414549
(499928)	16.6	149.35203	174.65088	52.72166	12.76518	0.1285365	2.6942417414549
(499929)	16.6	93.87376	68.67301	135.52850	16.84377	0.1840891	3.0152163414550
(499930)	17.1	27.22142	73.75224	207.29700	16.95361	0.3919387	3.1346993414550
(499931)	17.4	278.59336	316.71209	96.87458	24.52414	0.0996397	1.9814704414550
(499932)	16.2	316.26201	346.25559	73.82203	13.10924	0.0474760	2.6856309414551
(499933)	17.0	252.71270	290.39004	185.08551	12.08060	0.0853223	2.6903428414551
(499934)	18.1	47.72456	85.09407	192.59734	21.16506	0.0596907	1.9444769414551
(499935)	16.6	234.16133	318.65017	203.73101	31.38699	0.1511269	2.6079154414551
(499936)	17.5	260.28194	48.34242	93.88400	7.93404	0.2047263	2.5327028414552
(499937)	17.0	85.59285	49.11116	156.80717	3.80032	0.1735381	3.0153039414552
(499938)	16.5	31.07537	181.85232	81.86485	11.33836	0.1527641	3.1014358414552
(499939)	16.9	151.28871	124.34106	105.12759	11.81554	0.0724260	2.7075857414553
(499940)	17.2	198.78188	330.80411	186.30310	15.56976	0.2045574	2.7259450414553
(499941)	16.9	273.76219	308.95600	101.82352	13.04980	0.0539858	2.9076305414553
(499942)	16.5	88.88321	70.92401	176.71508	14.28434	0.0661721	2.8771333414553
(499943)	18.4	44.40070	108.19639	208.73401	22.35143	0.0517689	1.9046991414554
(499944)	16.9	130.85070	168.59046	68.91715	9.66029	0.0793210	2.7636132414554
(499945)	16.8	117.25753	168.85309	73.61650	9.39664	0.1638671	2.7616892414554
(499946)	16.5	331.94352	308.09463	90.32692	14.14741	0.0316873	2.7324895414554
(499947)	16.3	183.65673	349.17077	171.85046	9.69643	0.0964160	2.8086404414555
(499948)	17.0	46.89229	230.20093	81.82483	6.07174	0.0689814	2.8181133414555
(499949)	17.4	167.83217	135.16463	78.60494	12.19446	0.0770016	2.6585073414555
(499950)	16.8	53.30371	228.77357	115.96186	9.15681	0.1621080	2.6552654414556
(499951)	16.2	349.17905	164.56916	164.94761	18.34995	0.1706968	3.0377895414556
(499952)	16.8	21.45744	224.74078	73.06518	13.30743	0.0484777	2.9772074414556
(499953)	16.5	45.58266	91.60104	154.40741	17.93957	0.2189141	3.1231475414556
(499954)	16.3	177.81163	339.48741	171.74753	11.29266	0.0127529	2.9041899414557
(499955)	17.4	141.34130	127.99252	52.38396	2.80796	0.0571803	2.8500291414557
(499956)	16.6	17.23990	235.12422	43.62768	15.64894	0.1990466	3.0720317414557
(499957)	18.1	101.39658	83.90332	170.04663	22.69927	0.0765711	1.9274124414557
(499958)	17.1	36.11185	116.64888	162.59867	16.38317	0.1969209	3.0523879414558
(499959)	16.1	27.02760	110.40714	171.26977	16.84568	0.1896404	3.0503589414558
(499960)	16.4	33.96963	158.46191	99.04925	11.61645	0.1728617	3.1358990414558
(499961)	17.6	179.47457	129.60538	57.01836	8.01333	0.1750897	2.6419739414558
(499962)	16.4	73.99895	244.49959	349.74118	7.19914	0.2326962	3.0009661414559
(499963)	16.3	45.45744	207.58227	71.81448	7.42818	0.1112530	3.0022065414559
(499964)	17.1	68.24418	89.90479	139.04262	1.44106	0.1801181	3.0459863414559
(499965)	16.5	94.46567	126.09281	99.51101	4.55443	0.1180108	2.9679294414560
(499966)	16.1	18.78792	238.23550	59.05604	9.90755	0.1131903	3.0705975414560
(499967)	17.0	58.77816	73.32259	167.65398	7.24389	0.2175259	3.0809238414560
(499968)	16.3	180.58326	24.09614	101.04454	12.75612	0.0527809	3.0308125414561
(499969)	16.4	348.19686	257.34783	59.13117	5.79205	0.1313457	3.0872136414561
(499970)	17.5	302.28635	131.28895	78.44714	6.89831	0.0935249	2.3397601414561
(499971)	17.0	145.64175	197.32607	30.38743	8.06790	0.1470447	2.7417690414561
(499972)	16.5	60.72605	182.58194	61.63818	2.68895	0.1073014	3.0414048414562
(499973)	16.6	182.53652	21.14388	156.01826	9.81882	0.0886900	2.7901048414562
(499974)	16.6	30.41095	58.94255	224.10807	4.96854	0.0927843	3.0213249414562
(499975)	16.0	41.67087	188.89201	86.35115	13.74939	0.1380911	3.0417017414562
(499976)	17.0	58.02024	105.54825	149.48815	1.54874	0.1696879	3.0380124414563
(499977)	16.7	6.51458	201.32754	116.76755	10.22029	0.0832678	3.0040844414563
(499978)	16.8	80.58843	84.23024	156.38161	12.81714	0.1346457	3.0168141414563
(499979)	16.3	56.75858	188.40646	54.70970	8.11540	0.0984686	3.0932463414563
(499980)	16.6	27.51404	133.27635	169.89483	23.20806	0.1990782	3.0390956414564
(499981)	16.4	44.42269	128.24409	125.28563	17.57132	0.2074961	3.1475749414564
(499982)	17.2	93.89056	91.78769	107.68835	2.19269	0.1865210	3.0516116414564
(499983)	16.4	21.41755	175.43237	133.84460	16.43294	0.2403577	3.2032718414565
(499984)	15.7	22.42776	64.82056	277.29993	12.76158	0.1193632	3.0179921414565
(499985)	16.0	89.62956	53.10350	209.49656	12.51035	0.1606543	2.9123776414565
(499986)	20.0	26.80277	354.93796	295.13692	39.04014	0.1950818	1.5921865414566
(499987)	16.9	89.22563	25.18826	238.60459	6.78857	0.1390580	3.1010680414566
(499988)	16.1	306.75352	79.51175	320.57809	11.18539	0.0626852	3.1337541414566
(499989)	16.3	1.54675	63.13644	313.92683	15.44144	0.2743019	3.1259800414567
(499990)	16.3	348.24283	214.57409	140.10982	9.98608	0.0759665	3.1548951414567
(499991)	16.1	9.43929	245.76731	102.80705	27.31733	0.3051418	3.1832441414567
(499992)	15.9	41.11315	349.09976	313.50412	15.88522	0.2804259	3.1246603414567
(499993)	16.3	33.48414	336.21224	320.37967	9.56679	0.1924973	3.1550237414568
(499994)	16.0	20.68829	7.93303	293.19145	20.31679	0.1721766	3.2125991414568
(499995)	16.6	13.02017	231.78542	99.60506	11.49207	0.2211034	3.1327996414568
(499996)	15.4	332.24864	61.13846	319.28669	24.34290	0.1626347	3.1991353414568
(499997)	15.7	354.82590	34.89238	324.51922	17.79212	0.1141853	3.1785337414569
(499998)	23.9	339.25213	298.91450	71.00400	2.21175	0.2150294	1.3127137414569
(499999)	17.0	36.99876	84.44910	214.78140	9.15451	0.2070399	3.1586708414570
(500000)	15.8	56.95054	27.62213	282.99714	8.81567	0.0322773	3.1034925414570
(500001)	16.1	21.70333	298.80605	49.68880	9.91892	0.0990987	3.0744892414570
(500002)	16.7	336.80138	240.76915	172.24509	12.95601	0.1234539	3.1236946414570
(500003)	16.9	22.05728	79.49257	231.82842	8.95451	0.2039146	3.2169197414571
(500004)	16.0	265.53838	202.32630	247.88436	8.10807	0.0496604	3.1643628414571
(500005)	16.1	355.38047	61.88767	284.12107	17.31529	0.1300987	3.2283652414571
(500006)	16.9	55.63539	125.51454	182.78665	14.26271	0.0536910	3.1231461414571
(500007)	17.0	54.73300	98.81048	179.87994	15.74775	0.1820780	3.2107589414572
(500008)	16.0	29.32196	64.99273	271.14349	8.20089	0.2210365	3.1394944414572
(500009)	16.5	37.10333	350.11166	324.16286	14.66972	0.2726211	3.1749176414572
(500010)	16.8	358.88582	179.02686	191.16051	2.20091	0.1077023	3.2014922414572
(500011)	16.2	308.99998	114.82968	342.25759	26.21107	0.2316087	3.1277735414572
(500012)	16.3	7.66164	33.96512	339.12098	12.19867	0.2118264	3.1374179414573
(500013)	15.6	9.13403	355.81903	12.23960	28.19786	0.1707180	3.1957678414573
(500014)	16.6	35.77456	311.66903	327.64347	23.87768	0.3213947	3.2370390414573
(500015)	15.9	40.31971	329.97827	8.58358	11.62198	0.1746598	3.1335703414574
(500016)	16.3	262.73200	198.29706	287.30025	9.16170	0.0712154	3.0491152414574
(500017)	16.2	23.79048	162.89421	189.82659	14.50738	0.1862168	3.1495010414574
(500018)	16.8	289.12272	281.77258	199.05133	10.80468	0.0488993	2.9357303414574
(500019)	16.1	3.04495	18.21916	343.86349	14.66049	0.1045765	3.2001161414575
(500020)	16.7	0.62571	36.12742	338.12577	8.60624	0.0925059	3.1695390414575
(500021)	16.1	15.97418	160.10278	184.57929	8.89605	0.0772959	3.1741104414575
(500022)	15.7	192.54647	219.18277	330.64973	15.40546	0.0277996	3.1167199414575
(500023)	16.5	185.02378	268.92984	285.15192	8.84264	0.0629273	3.0533778414576
(500024)	16.8	52.16330	130.52439	181.16609	11.86718	0.2029537	3.1463610414576
(500025)	16.5	321.33865	93.69361	337.73797	8.84696	0.0824139	3.1224862414576
(500026)	19.0	22.88770	279.52944	4.75806	3.25177	0.3160323	2.1229478414576
(500027)	16.3	353.98355	142.40741	193.64552	7.00115	0.1295966	3.4851729414577
(500028)	16.2	341.27059	271.28748	187.58307	23.69119	0.3800395	3.1315861414577
(500029)	16.2	312.77418	77.22561	351.44529	14.92186	0.0866281	3.1842724414577

(500030)	18.9	355.07965	353.77496	336.93783	1.21856	0.0736522	2.1267398414578
(500031)	16.5	60.61857	130.91451	183.43664	9.34257	0.0666060	3.1661580414578
(500032)	16.0	18.85569	141.69825	213.77177	13.84661	0.2225319	3.1799011414578
(500033)	16.2	18.10149	47.81859	303.62989	6.52322	0.1443529	3.1728190414578
(500034)	18.1	277.79468	190.26151	185.04822	7.22313	0.1529259	2.2535041414579
(500035)	16.1	16.06248	30.12192	323.18044	7.22834	0.2792551	3.1727619414579
(500036)	15.9	49.88758	73.02868	253.51915	9.54799	0.1609651	3.1110723414579
(500037)	16.5	45.00897	271.71865	30.16999	24.19584	0.3288397	3.1794719414579
(500038)	16.4	349.38238	210.50771	194.95521	11.28800	0.1138287	3.1619492414580
(500039)	15.9	108.97501	98.89156	178.37629	9.35881	0.0386780	3.1391426414580
(500040)	16.2	85.86738	117.45834	183.51077	9.39574	0.0885592	3.1379836414580
(500041)	16.8	331.61607	227.15389	184.97069	11.86321	0.1400854	3.1977042414580
(500042)	16.1	349.60338	203.60096	193.70532	8.50886	0.0857480	3.1692763414581
(500043)	16.6	50.46899	119.94763	175.53817	25.93499	0.2637752	3.2023043414581
(500044)	16.1	117.71106	266.94925	342.43043	8.30998	0.1643132	3.0778871414581
(500045)	15.8	359.20486	332.15060	26.71718	17.44588	0.1380982	3.3781532414582
(500046)	19.0	16.09730	92.48964	221.19263	5.46651	0.1605528	2.1330224414582
(500047)	16.5	88.75673	97.21172	177.60870	21.70511	0.0750272	3.1962164414582
(500048)	15.6	26.49109	325.73510	18.91578	27.79066	0.1748130	3.1780697414582
(500049)	18.7	340.00141	145.88092	208.90841	2.90306	0.1931369	2.1533641414583
(500050)	19.6	321.15514	133.68651	239.83632	1.44412	0.1470552	2.1451701414583
(500051)	18.4	314.12915	115.57826	268.38327	2.85474	0.1077359	2.1755330414583
(500052)	17.7	186.15241	127.82605	245.82544	13.22066	0.1676028	2.5482209414583
(500053)	16.4	38.82504	103.20498	205.44331	7.13656	0.2985827	3.3060233414584
(500054)	18.2	10.35623	352.33010	346.48437	2.55632	0.1620255	2.1345193414584
(500055)	15.8	319.13627	349.59222	59.25931	6.46044	0.0937100	3.5488041414584
(500056)	16.0	65.26030	161.81698	168.46457	10.86538	0.1224151	3.0853163414585
(500057)	18.2	346.02942	65.45234	284.45535	1.89400	0.2067846	2.1498884414585
(500058)	16.1	305.44772	159.63789	276.94058	6.61105	0.0237456	3.2210234414585
(500059)	15.6	314.27383	49.00609	66.56806	22.23584	0.1153577	3.1981713414586
(500060)	18.0	62.88396	20.65548	228.51233	4.80916	0.0746640	2.2531641414586
(500061)	18.3	307.71028	343.06359	44.39850	2.75482	0.0416645	2.1827163414586
(500062)	15.5	349.74635	100.88070	246.66354	15.11220	0.1397548	3.3844112414587
(500063)	15.7	16.97897	44.47518	304.28090	15.57515	0.1259360	3.2166232414587
(500064)	18.7	329.11836	226.37332	95.77193	4.65338	0.1712804	2.2268366414587
(500065)	18.4	314.96255	326.25182	60.46441	3.58627	0.1036724	2.1642905414587
(500066)	18.6	288.35247	276.71699	138.77577	2.57253	0.0929707	2.1697045414588
(500067)	18.4	137.09446	326.03113	246.73142	4.55624	0.0480408	2.1720146414588
(500068)	15.9	24.39539	286.19268	86.62020	11.52734	0.1536758	3.1681747414588
(500069)	16.7	11.85124	280.24671	103.24861	6.48448	0.2001100	3.1886018414588
(500070)	18.9	302.10125	194.03276	210.65981	0.87658	0.1028981	2.1535094414589
(500071)	15.9	73.38068	308.01517	47.50210	10.09926	0.0837395	3.0807476414589
(500072)	17.9	98.77665	162.99933	61.50525	7.81813	0.1249048	2.2243901414589
(500073)	15.7	8.78620	3.24800	64.71089	18.78007	0.1110080	3.1329175414589
(500074)	17.5	81.78680	171.45191	64.42011	4.44776	0.1243781	2.2518188414590
(500075)	18.5	253.12795	218.88380	220.70701	3.67155	0.1031366	2.2413747414590
(500076)	17.5	159.05587	124.35818	61.67184	6.41751	0.0716806	2.2181341414590
(500077)	18.2	348.30418	66.63068	269.00795	4.60808	0.1428432	2.1976210414591
(500078)	18.2	203.11886	219.96388	266.94549	5.59021	0.1147922	2.2770870414591
(500079)	17.9	310.02015	261.88562	95.85648	4.76417	0.2214244	2.2359946414591
(500080)	17.1	59.94584	25.67412	157.74778	6.04681	0.6791418	2.7832732414592
(500081)	18.2	290.17108	146.83999	262.27909	5.36262	0.1094059	2.2178507414594
(500082)	17.1	203.20550	10.57170	92.80346	10.75145	0.0648890	2.3588104414594
(500083)	17.5	163.54236	77.84076	102.80443	6.64571	0.1029193	2.2858371414594
(500084)	18.8	299.68722	164.53421	245.51102	0.30154	0.2001435	2.2272379414595
(500085)	18.5	310.94582	271.93023	127.47738	3.22803	0.2161539	2.2206630414595
(500086)	17.7	289.28425	125.46615	288.68865	6.52901	0.0898342	2.2481982414595
(500087)	17.8	161.80055	80.65822	91.06478	6.14229	0.0286880	2.3184675414596
(500088)	17.7	153.26159	43.44121	129.84167	7.44073	0.0444892	2.3361703414596
(500089)	18.1	224.63862	130.66861	330.73135	5.26729	0.1053157	2.3227052414596
(500090)	14.9	289.23231	304.29529	313.49188	15.60088	0.2000294	3.1103199414597
(500091)	16.8	181.52779	219.31355	306.87402	24.15461	0.1437782	2.2981972414597
(500092)	16.8	71.11054	75.01281	147.44475	29.33248	0.3192403	2.6141652414597
(500093)	18.0	110.70665	86.27619	105.17774	3.39609	0.1422813	2.4797844414597
(500094)	18.7	97.85245	103.86350	151.67267	23.83526	0.2788050	1.3736292414598
(500095)	17.7	230.52813	211.82949	280.70220	5.55784	0.1528626	2.2641930414599
(500096)	18.2	188.74921	23.87716	118.51106	5.40206	0.1150916	2.3778197414599
(500097)	18.1	261.65106	316.99210	140.45665	7.31057	0.1264760	2.2406429414599
(500098)	17.8	316.35651	81.31985	285.91816	5.49786	0.1170561	2.2896183414599
(500099)	18.2	248.79027	151.87534	315.41741	4.90247	0.1620213	2.2553914414600
(500100)	18.3	203.86339	198.46857	288.59373	4.10060	0.0915651	2.3379217414600
(500101)	17.9	282.01044	82.66131	316.72155	6.39213	0.1295299	2.3132744414600
(500102)	18.3	170.87031	186.00040	313.14394	0.53633	0.1253226	2.4130845414600
(500103)	17.0	175.25642	17.73622	142.35645	13.57828	0.0948130	2.3766673414601
(500104)	17.7	78.29320	121.58340	119.49478	4.84774	0.1720356	2.4341634414601
(500105)	18.2	193.70992	183.52141	329.78041	4.43920	0.0940172	2.3119904414601
(500106)	17.9	136.89654	182.47035	341.95574	1.80010	0.1155782	2.4497827414602
(500107)	17.5	253.56145	304.98039	130.13014	7.12958	0.0783461	2.3462002414602
(500108)	18.1	134.70850	124.59827	109.06875	2.64454	0.1712975	2.3202294414602
(500109)	18.3	141.75590	65.19845	134.79315	5.00826	0.1731225	2.3675494414603
(500110)	18.2	298.90785	324.02359	101.65761	5.09439	0.1344130	2.2306923414603
(500111)	18.5	287.53025	81.79475	340.78712	2.18890	0.1209915	2.2681506414603
(500112)	17.4	161.77460	54.17793	109.73032	8.97821	0.0698219	2.3887069414603
(500113)	18.4	182.92558	349.36139	156.44084	3.46375	0.0888584	2.3764210414604
(500114)	18.2	238.23392	136.46580	304.20393	7.42868	0.0496028	2.3705201414604
(500115)	18.1	128.63835	50.29376	143.97019	1.82142	0.1202601	2.4031827414604
(500116)	18.7	142.77179	41.61210	144.29371	1.85652	0.1222785	2.3842649414604
(500117)	18.1	268.47601	124.62588	302.05643	6.04408	0.0943871	2.3319821414605
(500118)	18.6	288.46541	326.16910	106.07915	2.87467	0.1596224	2.2434732414605
(500119)	18.9	296.97384	176.53133	229.82865	1.89387	0.1935558	2.2451690414605
(500120)	18.1	197.60601	329.31462	156.72821	6.94627	0.0784659	2.3801425414606
(500121)	18.1	200.41046	346.76568	189.32474	4.01381	0.1203502	2.2726822414606
(500122)	18.6	334.72604	254.20997	151.78920	4.60950	0.1318727	2.1922341414606
(500123)	18.3	191.19011	161.34089	336.92079	4.90901	0.0562757	2.3763422414606
(500124)	17.1	336.53949	224.64947	123.00942	7.57821	0.1358990	2.3867952414606
(500125)	18.6	197.12354	178.58354	345.42142	1.19445	0.1140922	2.3071122414607
(500126)	18.0	134.74789	267.18937	299.28452	1.62376	0.1352593	2.3818350414607
(500127)	18.4	224.56958	141.62577	336.39011	2.92561	0.1622206	2.3078443414607
(500128)	17.7	276.55002	181.93078	290.66578	6.63964	0.0296297	2.2246490414608
(500129)	17.9	307.27745	63.69057	336.95246	6.01027	0.0925941	2.2728110414608
(500130)	18.2	243.75135	137.16113	314.03338	5.03451	0.1707700	2.3188177414608
(500131)	17.3	60.39449	355.26222	199.72024	3.50237	0.1612871	2.6741335414608
(500132)	18.3	266.11888	121.64076	311.70497	4.67075	0.1347412	2.3175902414609
(500133)	18.2	349.03282	241.86438	138.68089	6.90431	0.2318535	2.2009622414609

(500134)	18.4	259.01880	143.60322	308.66022	1.56525	0.1903723	2.2740771414609
(500135)	17.9	149.66438	108.01240	111.06917	6.28894	0.1453339	2.3224486414609
(500136)	22.7	308.28161	64.20091	349.71604	3.63300	0.1965668	1.3197508414610
(500137)	17.9	258.04233	265.44355	167.91350	5.86014	0.0921530	2.3639932414610
(500138)	17.2	307.29354	112.89427	117.14526	24.48574	0.0704216	1.9529694414610
(500139)	18.3	213.23071	140.99530	355.39954	1.10223	0.1229852	2.3277355414611
(500140)	17.4	61.97147	121.70908	101.83444	6.65635	0.3356812	2.6838282414611
(500141)	17.3	74.25866	67.48037	106.51374	14.02066	0.2246349	2.6901754414611
(500142)	16.7	54.81397	207.01044	21.31996	13.72293	0.2327291	2.7142608414611
(500143)	15.9	339.63551	309.10832	9.51507	11.16309	0.2010490	2.5303900414612
(500144)	18.1	231.73748	108.77371	19.24255	7.45486	0.0587803	2.3102546414612
(500145)	16.9	69.89463	67.45792	167.54975	13.22721	0.1594790	2.5974064414612
(500146)	18.0	209.19358	154.53498	348.73908	6.27235	0.1416335	2.3457934414612
(500147)	17.4	68.57421	264.99858	357.71455	10.12561	0.1472455	2.4731893414613
(500148)	18.2	155.33046	128.71701	71.38808	3.02383	0.1580737	2.3998661414613
(500149)	17.9	172.79083	81.20848	131.98461	3.76514	0.0886945	2.3160241414613
(500150)	17.6	219.95978	129.73020	317.78243	4.08011	0.0643074	2.3859376414614
(500151)	17.5	50.76792	308.18994	317.58837	13.96666	0.1189399	2.4455169414614
(500152)	16.9	6.54530	18.19609	152.46871	5.65866	0.0862901	3.0491087414614
(500153)	17.7	72.47189	198.94333	14.26149	1.55842	0.1550440	2.6096972414614
(500154)	18.0	160.34871	125.27791	58.95925	2.04849	0.1254863	2.3920880414615
(500155)	17.8	121.84251	146.48098	73.21708	3.64439	0.1576127	2.4337228414615
(500156)	16.9	81.61483	308.02982	274.92250	3.86651	0.2431896	2.6108674414615
(500157)	18.0	110.93441	261.25383	318.51791	3.81999	0.0901030	2.4399684414615
(500158)	17.4	58.04132	264.25917	338.81441	6.75578	0.3667607	2.6658049414616
(500159)	18.4	246.37304	89.64978	30.90533	7.82275	0.1939560	2.2996442414616
(500160)	17.5	265.65520	32.57233	61.89506	6.99677	0.0522513	2.3587033414616
(500161)	16.5	6.24736	254.92102	85.85184	8.58075	0.2636524	2.4628448414616
(500162)	17.2	174.56023	130.64340	53.19091	7.30269	0.1094963	2.3788351414617
(500163)	18.1	224.71124	52.21457	91.28045	4.86000	0.1580766	2.3078189414617
(500164)	17.7	331.68407	180.66377	208.23021	3.32884	0.1940300	2.2896710414617
(500165)	17.5	231.86084	304.51698	165.40461	6.19262	0.1608635	2.3692864414618
(500166)	17.8	275.06932	29.68986	42.95203	2.98532	0.1915894	2.3354716414618
(500167)	18.1	90.77313	184.50959	81.92554	2.46132	0.1593935	2.4237435414618
(500168)	18.3	255.63661	313.55111	144.40701	4.71221	0.1525980	2.3313355414619
(500169)	17.6	168.39659	175.28058	18.61048	7.22564	0.0869547	2.3628371414619
(500170)	17.4	34.67112	282.76349	356.78093	30.05175	0.2508078	2.6002716414619
(500171)	18.1	136.59969	14.42460	177.79653	6.70778	0.0986745	2.4735305414619
(500172)	17.8	201.66823	124.82618	38.60917	6.48607	0.0230459	2.3661189414620
(500173)	18.2	141.10393	220.17485	339.57237	0.93656	0.1296724	2.4349167414620
(500174)	18.2	195.35484	62.73893	96.59621	2.30012	0.1166708	2.3821388414620
(500175)	17.2	144.69605	77.60401	154.02169	7.63321	0.1563359	2.4179125414620
(500176)	18.2	196.79631	122.89430	33.28529	1.81132	0.1209319	2.3698798414621
(500177)	18.0	94.17957	129.85136	138.93282	3.06808	0.1431835	2.4096813414621
(500178)	17.7	10.91564	120.16971	149.48097	2.35807	0.1846155	2.7211303414621
(500179)	17.9	267.34999	279.68404	153.35950	5.83454	0.2135384	2.3452558414621
(500180)	18.0	220.42154	100.80074	20.62984	7.09833	0.1157976	2.3926827414621
(500181)	17.2	38.78418	146.94455	135.15537	5.75390	0.1599561	2.5562007414622
(500182)	18.0	92.25908	130.37055	133.52292	4.74803	0.0713073	2.4041023414622
(500183)	17.7	39.45869	283.86910	342.08070	7.13326	0.1573358	2.6230278414622
(500184)	17.7	263.27703	292.49175	152.57221	7.08493	0.0673515	2.3662867414622
(500185)	17.5	84.88552	255.43177	327.32801	3.44615	0.1338840	2.5734161414623
(500186)	18.2	244.36692	338.63232	153.96310	2.12894	0.1309984	2.3263401414623
(500187)	17.7	52.01159	293.80075	329.22382	3.47783	0.1709469	2.6086801414623
(500188)	16.7	26.39233	226.75164	71.91976	13.55602	0.2997742	2.6838621414623
(500189)	18.2	227.05041	31.03987	99.48190	2.31209	0.1349174	2.3803138414624
(500190)	18.2	99.30283	205.81652	53.92036	2.08646	0.1515837	2.4324532414624
(500191)	17.1	71.20376	198.31582	23.73743	8.07023	0.1766131	2.6887481414624
(500192)	16.9	49.22867	159.65987	78.69080	9.32424	0.1991875	2.7519243414624
(500193)	17.9	80.82089	246.59007	343.99186	4.79477	0.2356588	2.6316750414625
(500194)	17.7	85.43347	346.52092	243.39020	3.54785	0.1055561	2.6095646414625
(500195)	16.9	29.29957	55.66671	231.05189	12.27932	0.1358101	2.6549401414625
(500196)	17.1	60.39669	134.03273	129.02974	10.22373	0.0315657	2.6412749414625
(500197)	17.1	38.76528	129.97694	138.61182	13.00729	0.1427405	2.6973312414626
(500198)	17.4	25.76778	135.41154	136.78609	8.08529	0.2537869	2.7374172414626
(500199)	17.5	100.04286	37.98543	180.95011	17.05988	0.2248036	2.5893957414626
(500200)	17.0	64.14907	92.04544	160.98376	13.22779	0.1325401	2.6443802414626
(500201)	17.2	82.59926	112.38368	98.36679	12.26000	0.1185976	2.6976945414627
(500202)	17.8	127.56474	101.42005	109.22820	8.16179	0.1560358	2.5438224414627
(500203)	17.3	51.78786	107.75322	177.10202	10.43209	0.2968781	2.6678920414627
(500204)	17.2	51.31334	93.06044	155.86216	12.27377	0.1592750	2.7464630414627
(500205)	17.1	56.93690	78.30361	172.74876	12.38796	0.2338994	2.6586540414628
(500206)	17.1	117.55385	47.38855	138.60863	9.87794	0.1438278	2.6214162414628
(500207)	17.8	104.98970	171.65047	53.32952	5.68762	0.2137018	2.5638460414628
(500208)	17.5	137.10661	349.84669	195.74032	8.76301	0.1005861	2.5724886414629
(500209)	18.0	215.66757	43.51548	121.08968	6.66883	0.1998784	2.3441838414629
(500210)	16.4	99.25285	141.16650	59.36977	14.10866	0.1077036	2.6687163414629
(500211)	17.3	133.51128	354.78366	190.57389	0.82953	0.0793559	2.5478829414629
(500212)	17.6	33.95650	152.91883	147.46805	8.49458	0.2183541	2.6407785414630
(500213)	17.2	61.29158	90.44319	133.39553	9.34268	0.1955182	2.7297756414630
(500214)	17.8	194.66658	164.62564	20.38380	2.31093	0.1454349	2.3382427414630
(500215)	17.8	59.75178	78.21887	194.59814	3.33998	0.1801496	2.6034686414631
(500216)	16.9	136.62277	107.23912	121.30799	7.64434	0.1265178	2.4757859414631
(500217)	17.2	24.98100	150.70428	142.64722	5.57658	0.1481809	2.6850542414631
(500218)	17.5	233.55521	50.33290	99.93953	9.87762	0.1001560	2.3630969414632
(500219)	16.9	24.15954	164.48597	155.76602	13.55607	0.2793019	2.6627009414632
(500220)	16.8	70.33472	328.69089	263.67193	8.31007	0.1885016	2.6700111414632
(500221)	17.3	70.30606	183.44794	51.47759	13.38689	0.1045328	2.6652542414633
(500222)	16.4	0.55967	247.40256	107.14456	12.97923	0.2003593	2.5779154414633
(500223)	17.1	2.50326	147.16795	160.96075	12.86074	0.1653898	2.7136728414633
(500224)	17.8	58.71465	128.50527	172.61866	3.70714	0.1926850	2.5263276414633
(500225)	17.6	110.54958	352.92281	223.88869	9.10797	0.1447525	2.5943838414634
(500226)	17.4	54.27398	102.75154	172.99093	11.80209	0.2577664	2.6769359414634
(500227)	17.6	84.70839	70.31017	190.77668	28.98770	0.3268813	2.6003180414634
(500228)	17.5	100.63388	65.07301	166.24696	7.56439	0.1655375	2.5852699414635
(500229)	17.2	115.22138	10.19981	206.86693	8.60344	0.1045029	2.5737279414635
(500230)	17.7	148.89404	79.97251	110.06535	4.60535	0.0478296	2.5376172414635
(500231)	17.0	63.00337	221.22110	54.89794	13.25482	0.0611373	2.5671385414635
(500232)	17.8	114.03614	138.48886	66.84514	3.30347	0.1363250	2.6033653414636
(500233)	17.5	47.15537	41.60599	250.62076	3.54723	0.2724299	2.6481667414636
(500234)	16.9	1.66335	148.91725	199.32422	8.59056	0.1372682	2.5935477414636
(500235)	17.1	21.05489	139.68111	148.43272	21.63113	0.2560428	2.7761396414637
(500236)	17.5	38.15918	244.57082	61.59303	15.81732	0.1471755	2.5588773414637
(500237)	16.9	80.25196	126.29429	144.74760	13.61209	0.2007379	2.5784909414637

(500238)	16.9	112.78839	300.27016	255.49889	10.24908	0.1841891	2.6388821414637
(500239)	17.4	143.95897	30.58374	235.34580	2.73261	0.1452799	2.3557069414638
(500240)	17.5	67.55020	44.46671	198.72234	8.87875	0.2298619	2.6965910414638
(500241)	16.2	359.40228	116.99782	236.11697	29.18097	0.3046252	2.6137570414638
(500242)	17.6	69.63761	63.12287	171.25155	6.62553	0.1279166	2.6619421414639
(500243)	17.5	95.71671	79.58911	154.82329	11.92082	0.1457964	2.6005877414639
(500244)	17.8	34.72113	128.57615	170.85223	4.27958	0.1601937	2.6288356414639
(500245)	17.4	14.76209	121.46105	186.54972	1.94832	0.2767673	2.7216113414639
(500246)	17.3	47.94054	188.39726	77.11452	12.59177	0.0778151	2.6329185414640
(500247)	17.9	107.87696	174.80678	44.26996	4.41657	0.1302721	2.5874368414640
(500248)	17.6	15.65928	96.77101	202.35411	3.03686	0.2240793	2.7318274414640
(500249)	17.1	57.43979	224.39535	71.62021	5.29898	0.2382479	2.6145255414640
(500250)	17.3	36.67186	187.07893	90.89721	6.37305	0.0774516	2.7072007414641
(500251)	17.8	189.43871	67.14246	110.04748	2.98512	0.0799415	2.4618509414641
(500252)	17.4	140.24482	357.09145	201.77341	7.02853	0.1078658	2.5572926414641
(500253)	17.6	97.66060	55.02181	150.37757	9.78622	0.2019476	2.6606511414641
(500254)	17.4	82.09723	122.37401	98.65558	12.10088	0.1061747	2.7205793414642
(500255)	17.4	113.44600	165.17102	73.22290	11.23206	0.1650514	2.5356079414642
(500256)	16.9	348.39895	225.56726	100.89576	6.10292	0.1428240	2.7538989414642
(500257)	16.9	36.15643	188.99154	89.17441	9.37299	0.1733830	2.7437009414642
(500258)	16.6	176.58962	275.20633	225.88876	11.91744	0.1274686	2.6251382414643
(500259)	16.5	81.95462	192.07019	73.54185	17.67286	0.1299842	2.5847479414643
(500260)	16.7	130.68439	314.30243	235.16305	10.74141	0.1377070	2.6268987414643
(500261)	16.8	45.55724	227.93444	113.81498	8.08626	0.2571680	2.5398238414644
(500262)	17.2	152.73396	317.32251	228.32488	14.83839	0.1132317	2.5700122414644
(500263)	17.0	23.20472	191.15967	122.66343	17.97261	0.2603007	2.6693681414644
(500264)	17.0	3.23304	167.28117	155.03341	14.66102	0.1343763	2.7078816414644
(500265)	16.9	174.71616	328.14146	202.89384	12.34115	0.1846453	2.5482730414645
(500266)	17.3	56.33043	38.53989	226.86056	10.47701	0.1662604	2.6886850414645
(500267)	17.5	38.20792	142.26540	159.08330	13.73315	0.1728925	2.6482158414645
(500268)	17.2	38.12911	152.85204	126.05838	15.55507	0.2069024	2.7376944414645
(500269)	16.6	116.52925	347.00894	214.54865	12.66997	0.2327091	2.6244389414646
(500270)	17.1	75.98149	55.31177	228.18912	12.63696	0.1759566	2.5720782414646
(500271)	16.8	29.53076	65.39603	238.12976	12.67327	0.1942647	2.6967758414646
(500272)	17.1	149.96209	352.94478	197.11877	21.63127	0.0047563	2.5980123414647
(500273)	16.7	0.22846	208.45375	128.30712	13.00653	0.1112798	2.8137810414647
(500274)	17.0	50.67112	162.22839	96.24560	5.53872	0.1165648	2.7422917414647
(500275)	16.6	135.81435	13.31496	175.90990	13.09853	0.1019266	2.6114204414647
(500276)	16.8	300.07823	61.80000	323.34595	8.36242	0.0713581	3.0703731414648
(500277)	16.9	297.59751	232.98482	171.65152	10.56423	0.1322241	3.0119343414648
(500278)	16.4	201.05041	155.93727	332.62136	8.57524	0.0951343	3.0635129414649
(500279)	16.4	38.35431	57.29533	211.61448	7.15031	0.0918561	3.0211079414649
(500280)	16.5	277.45842	233.00290	172.58392	10.60842	0.0466411	3.0825780414649
(500281)	16.5	13.64111	22.65373	321.57965	10.58761	0.1285034	2.8645056414650
(500282)	16.0	253.16052	124.70224	317.90618	8.81011	0.0718430	3.0471710414650
(500283)	16.0	111.79388	73.72501	176.43098	17.24255	0.0932385	2.8057806414650
(500284)	18.9	22.04201	344.45219	322.66233	18.28604	0.0381998	1.8667596414650
(500285)	18.0	10.19485	160.27216	145.07378	22.86764	0.0753437	1.8818242414650
(500286)	17.6	111.25914	275.46742	276.93373	21.85544	0.1176836	1.8778531414651
(500287)	16.6	44.31847	167.14362	141.96030	22.27253	0.1697837	2.7703474414651
(500288)	16.9	126.57305	32.13088	209.00649	14.00931	0.2176937	2.6134736414651
(500289)	16.1	316.34039	28.08853	335.10756	8.56499	0.1475509	3.0597688414651
(500290)	16.7	46.60355	164.75381	142.89095	14.02355	0.1750046	2.7922689414652
(500291)	17.3	84.20869	52.05393	225.81831	4.56415	0.1001744	2.6983599414652
(500292)	17.0	351.82158	295.03045	40.96317	3.25665	0.1776508	2.9680823414652
(500293)	16.1	315.45621	190.87447	152.84234	13.12165	0.1475664	3.1769137414652
(500294)	17.9	259.30868	55.05778	32.66643	21.53166	0.0335027	1.8817557414653
(500295)	16.9	37.26223	45.03548	275.98812	6.47333	0.2125804	2.7409563414653
(500296)	16.4	6.02609	325.13522	336.24961	17.33286	0.1382751	3.0890704414653
(500297)	18.7	267.40449	283.57600	163.59802	22.94266	0.0855339	1.8327386414653
(500298)	16.3	349.74780	9.61981	321.57711	10.15839	0.0601465	3.0719082414654
(500299)	16.9	15.61460	171.67245	172.86602	17.15648	0.1910836	2.8449526414654
(500300)	16.7	337.15131	161.90593	182.96521	4.68690	0.1453557	3.0862616414654
(500301)	16.3	296.24573	81.04573	314.26143	11.79774	0.0718003	3.0692916414654
(500302)	15.8	359.48016	1.02059	309.27492	9.47744	0.1011506	3.1098082414655
(500303)	16.9	296.82944	78.74026	314.66987	9.11303	0.0987325	3.0823346414655
(500304)	16.4	291.21527	74.82969	341.36559	9.98249	0.1354495	3.0030482414655
(500305)	18.3	276.04560	117.23433	305.19330	19.06964	0.1046578	1.8623516414655
(500306)	16.2	268.50763	62.92883	343.36094	9.20439	0.1081518	3.0839700414656
(500307)	16.8	24.14713	67.34849	276.42950	3.70344	0.1721068	2.8057559414656
(500308)	16.9	22.35216	2.63829	341.84300	8.38325	0.1577441	2.8080577414656
(500309)	16.1	67.94026	122.28946	153.42965	12.94450	0.0819386	2.8361814414657
(500310)	16.3	310.46277	80.37602	322.41532	11.29869	0.3512721	3.0788284414657
(500311)	16.1	322.75132	77.31379	308.49816	12.74171	0.2339039	3.0350617414657
(500312)	16.2	319.97327	351.03843	6.48839	13.39978	0.0989468	3.1404910414658
(500313)	16.5	40.82181	123.98111	205.54685	19.75215	0.2263148	2.8024586414658
(500314)	16.8	318.91998	154.10362	227.04524	5.54727	0.2131852	3.0696161414658
(500315)	15.8	261.04440	83.01681	339.38266	11.55642	0.0628036	3.1185696414658
(500316)	16.8	305.60882	240.73322	150.10044	5.59910	0.1438000	3.1914265414659
(500317)	16.0	329.50636	343.45531	21.94637	16.74228	0.2510028	3.1031062414659
(500318)	16.8	350.25663	355.50270	351.69854	9.82425	0.1956675	2.9819685414659
(500319)	16.0	5.40043	150.32924	162.83154	19.66769	0.1349888	3.0637897414659
(500320)	16.3	303.77486	178.81862	206.52214	8.62153	0.0854562	3.1875044414660
(500321)	16.2	333.82022	179.84174	196.84193	15.73440	0.1223096	3.0270641414660
(500322)	16.5	15.76203	185.21758	171.54968	4.56082	0.1196696	2.8155612414660
(500323)	16.5	238.98381	118.92435	321.91667	9.75702	0.0868717	3.0562686414661
(500324)	16.8	50.85817	98.45583	175.67278	15.35381	0.1804928	2.9930063414661
(500325)	18.6	58.52502	99.79033	191.34560	29.32429	0.2093806	1.8234394414661
(500326)	16.6	358.86452	347.97374	350.29184	10.71320	0.1290008	3.0005546414661
(500327)	16.5	335.49090	30.19174	14.10169	9.68929	0.1278619	2.8752877414662
(500328)	18.3	157.18032	357.94442	202.32884	22.40925	0.0463931	1.8555944414662
(500329)	17.3	330.09200	56.22360	322.61507	5.85518	0.1877790	3.0689011414662
(500330)	16.7	317.74923	214.30041	190.98896	10.69192	0.0743738	2.8935203414662
(500331)	16.6	302.76522	41.19298	3.59124	8.94104	0.0844900	3.0498669414663
(500332)	16.7	306.38257	40.49422	4.45381	11.63432	0.1465394	3.0477155414663
(500333)	16.5	334.87614	12.92898	355.59175	11.11584	0.1288180	3.0262322414663
(500334)	16.6	335.97241	351.32079	350.83909	10.77993	0.0758885	3.1436425414663
(500335)	16.4	308.30068	46.53365	350.70140	9.64899	0.0454928	3.0142576414664
(500336)	16.4	335.66592	204.22460	207.69981	4.96457	0.1650339	2.8384146414664
(500337)	17.0	20.19542	335.01128	355.98005	10.92494	0.0960737	2.9450330414664
(500338)	16.7	348.15154	350.96735	15.07006	10.18104	0.1120739	2.9687459414664
(500339)	16.3	292.98784	188.22482	199.66814	11.90803	0.0630051	3.1417181414665
(500340)	16.1	5.90308	338.83704	337.25714	11.98068	0.1066644	3.0644812414665
(500341)	16.6	333.98599	216.92862	145.55619	10.87039	0.3137965	3.0365800414665

(500342)	18.3	335.91506	187.41916	195.14597	20.55157	0.0451117	1.8620649414665
(500343)	17.9	320.53039	76.28162	330.24536	15.57636	0.1513263	1.8598788414666
(500344)	16.6	316.44281	113.01171	266.63807	4.15328	0.1772798	3.1133504414666
(500345)	17.2	22.74114	208.14113	129.32685	2.96252	0.0766684	2.8777135414666
(500346)	16.3	346.37624	342.96275	9.34658	13.17724	0.0648186	3.0394997414666
(500347)	17.5	337.45828	199.32763	158.29588	1.35477	0.1467408	3.0532903414667
(500348)	15.3	318.93579	88.22027	296.09132	24.50487	0.2510936	3.1080657414667
(500349)	16.8	328.91981	197.94543	184.11137	8.68876	0.1212712	3.0385476414667
(500350)	17.0	324.59884	44.38171	327.46531	4.21986	0.3035906	3.1159270414668
(500351)	16.4	327.96428	176.92061	213.81700	11.09068	0.0897925	3.0848395414668
(500352)	16.5	303.18597	30.07299	29.03310	17.05908	0.1052828	3.0896643414668
(500353)	16.2	24.57521	266.64862	31.03580	26.11090	0.2318127	3.1415372414668
(500354)	16.4	329.04537	339.61021	54.68885	11.71849	0.0819428	2.9770746414669
(500355)	17.7	139.29554	236.42770	310.45469	17.63097	0.0573748	1.9179608414669
(500356)	17.2	350.72995	324.70240	19.41842	1.20836	0.1743885	3.0888554414669
(500357)	17.3	326.26676	235.75715	147.13794	0.83113	0.1894959	3.0791938414669
(500358)	16.4	338.86393	123.47065	213.95230	8.48020	0.0392246	3.2238229414670
(500359)	16.3	279.86614	248.84592	185.12904	14.09213	0.1146243	3.0358357414670
(500360)	16.7	348.09945	340.21098	8.24987	2.96741	0.3111279	3.0486056414670
(500361)	16.3	295.84829	201.12396	207.08927	9.24206	0.1094041	3.1506389414670
(500362)	17.1	321.44889	219.06240	175.31750	3.05849	0.2162605	3.0686916414671
(500363)	16.1	59.52877	209.10652	117.00287	10.55503	0.1645866	2.7748054414671
(500364)	16.3	294.19176	104.94990	297.81747	8.78088	0.2173860	3.1115097414671
(500365)	17.3	327.22221	188.55044	197.10154	4.41500	0.1635853	2.9706945414672
(500366)	16.2	331.30688	185.27302	181.15293	28.89753	0.1473659	3.1114376414672
(500367)	15.9	298.91231	339.11884	70.42631	14.79238	0.1502679	3.1427993414672
(500368)	15.9	316.89092	25.21339	354.69010	10.79420	0.1275302	3.1353847414672
(500369)	16.1	317.58576	48.59379	353.31105	12.99718	0.0927061	3.0040395414673
(500370)	16.1	232.40640	125.53816	341.25515	10.38922	0.0396881	3.1387688414673
(500371)	16.3	354.90838	357.21308	330.40295	8.39352	0.0586028	3.1599026414673
(500372)	17.0	261.70702	93.04429	4.41351	3.84885	0.1121870	3.0635519414673
(500373)	16.1	352.90546	107.11073	250.71156	10.15702	0.1213323	3.1187519414674
(500374)	15.6	291.62678	204.78769	238.54504	12.91882	0.1749481	3.0956510414674
(500375)	16.1	301.16961	194.12585	212.97019	16.30465	0.1058797	3.0952878414674
(500376)	16.7	340.89720	166.10321	218.77748	5.89823	0.2926204	3.0081608414675
(500377)	16.5	294.21987	175.37183	223.18231	9.25128	0.0901789	3.1776839414675
(500378)	16.1	356.96836	355.60809	356.40647	10.79222	0.0999131	3.0256920414675
(500379)	16.7	308.22001	193.58933	193.46180	9.65540	0.1458633	3.1685423414675
(500380)	16.5	330.71769	25.49365	326.66122	8.49775	0.0795029	3.1738875414676
(500381)	16.3	328.83324	46.69147	340.88210	10.67501	0.0479189	2.9965350414676
(500382)	17.2	333.79294	165.87575	199.57810	0.42899	0.1796114	3.1606272414676
(500383)	16.3	344.64062	317.52520	32.49497	10.92400	0.2247913	3.1399643414676
(500384)	16.4	318.63005	317.81239	68.05587	2.28541	0.1805381	3.1292776414677
(500385)	16.9	338.95566	150.49586	204.85428	4.12330	0.2641285	3.1098084414677
(500386)	16.7	1.27251	290.04724	25.42777	10.63347	0.2387790	3.0776580414677
(500387)	17.0	314.69970	193.71325	205.98388	20.56513	0.0606293	3.0561061414677
(500388)	16.6	39.72622	277.85177	16.05464	10.00295	0.0394499	3.1482990414678
(500389)	16.8	351.86180	23.35557	320.99953	0.10835	0.1082707	3.1118494414678
(500390)	16.6	340.21552	158.66830	209.63757	11.27286	0.1104399	3.0692573414678
(500391)	16.5	322.78905	176.95743	211.24508	4.85339	0.1371828	3.0806826414678
(500392)	16.9	340.07894	340.72514	9.64484	1.53411	0.1894993	3.1327785414679
(500393)	16.1	61.56246	121.51690	161.47937	12.15206	0.0547233	3.0041642414679
(500394)	16.8	279.24516	328.56293	89.47203	2.71822	0.1617987	3.1793132414679
(500395)	16.9	290.78278	19.58910	78.14875	3.56932	0.0666254	2.8548459414679
(500396)	16.0	241.28446	78.59117	38.91476	11.12957	0.0793656	3.0196339414680
(500397)	17.1	46.17379	203.03535	142.68436	5.19549	0.0765794	2.7780899414680
(500398)	16.2	216.70742	77.95249	40.10747	9.57442	0.0563429	3.1686232414680
(500399)	16.8	355.14039	84.86976	277.38500	2.65760	0.1715532	3.0035973414681
(500400)	16.4	99.74333	234.73490	22.13582	16.71097	0.0244621	3.0483205414681
(500401)	16.5	309.76380	32.56630	21.31655	8.93090	0.0869706	3.0441093414681
(500402)	16.9	49.98519	289.19366	6.26729	2.90369	0.0792900	3.0742635414681
(500403)	17.0	318.45477	54.04197	353.61573	1.30231	0.0996075	3.0261870414682
(500404)	16.0	328.59521	147.52396	236.98459	17.06345	0.1807768	3.0749185414682
(500405)	16.1	84.27845	272.62484	344.75762	9.95700	0.1249672	3.0274471414682
(500406)	16.5	325.26526	36.04661	342.77337	8.58447	0.0940178	3.0914291414682
(500407)	16.2	353.29384	18.26469	350.97857	11.18806	0.1022211	2.9784708414683
(500408)	16.8	320.12056	40.27678	337.65179	8.89869	0.0841491	3.1408695414683
(500409)	16.8	322.35138	19.78125	348.81815	9.04557	0.0956900	3.1729030414683
(500410)	17.1	327.16784	154.76799	229.67437	8.84140	0.1044646	3.0536057414683
(500411)	16.7	313.73840	33.98486	345.18181	8.43059	0.0885454	3.1666941414683
(500412)	17.1	352.94014	130.44537	228.57420	8.09266	0.0877093	3.0225309414684
(500413)	16.5	113.95450	357.02723	234.69819	7.43476	0.0159496	3.0774994414684
(500414)	16.0	151.39187	184.06500	4.07317	17.06908	0.1729144	3.1682054414684
(500415)	16.7	317.77005	141.34174	252.30405	6.78382	0.0852144	3.0774531414684
(500416)	16.6	315.17082	137.91266	287.24343	4.68246	0.0829151	2.9315451414685
(500417)	16.5	7.31671	125.03612	231.45017	10.90385	0.0700559	2.9663977414685
(500418)	16.9	355.44998	126.56744	220.01043	9.26166	0.1067692	3.0504789414685
(500419)	16.6	347.44976	313.42217	38.59773	6.00296	0.1959476	3.0641946414685
(500420)	17.3	311.20613	265.42709	140.34968	2.46232	0.1798482	3.0730505414686
(500421)	16.8	326.41150	201.08364	179.31310	11.96852	0.0686978	3.0355171414686
(500422)	18.3	55.96471	79.45395	207.71923	20.69883	0.0736251	1.8741468414686
(500423)	16.5	273.25469	246.11344	228.29418	10.82830	0.0904151	2.8855391414686
(500424)	17.2	319.27373	290.13702	96.19776	4.27642	0.1532056	3.0565841414687
(500425)	16.2	55.11352	271.07869	356.89429	18.60292	0.0768361	3.0742338414687
(500426)	16.6	296.28102	262.02896	153.89714	12.40720	0.2154607	3.1570722414687
(500427)	17.2	27.05308	236.32421	100.73626	2.90035	0.0690870	2.9281624414687
(500428)	16.9	313.50508	266.62742	129.37689	5.40254	0.1720627	3.0642954414688
(500429)	17.8	145.17228	328.10476	227.11860	20.39492	0.0480849	1.9165172414688
(500430)	18.3	333.94451	344.41725	32.48984	20.38584	0.0951867	1.8796889414688
(500431)	16.6	264.19208	79.29746	38.49988	13.51550	0.2722085	3.1753709414688
(500432)	16.9	343.72771	134.40518	230.00226	2.35858	0.2193705	3.0947071414688
(500433)	17.4	345.74825	332.04994	10.22460	4.98758	0.1555969	3.1084346414689
(500434)	17.0	297.25539	27.08259	28.08840	4.73590	0.1455852	3.0792270414689
(500435)	16.7	6.93997	313.18471	20.23230	11.52746	0.1115675	3.0397008414689
(500436)	16.6	20.86562	130.35746	176.93063	5.25873	0.0713254	3.1222261414689
(500437)	16.9	311.67666	226.20803	164.59063	6.19194	0.1287828	3.1191690414690
(500438)	16.8	224.29904	304.39545	186.63572	9.58959	0.0757177	3.0347701414690
(500439)	16.8	3.01062	150.09972	185.13326	11.69563	0.0780262	3.1225326414690
(500440)	16.3	22.63119	180.16009	165.07510	8.45231	0.0579426	2.9930010414690
(500441)	16.7	6.28499	100.40587	214.42034	0.43640	0.1555730	3.1451644414691
(500442)	16.6	324.94472	33.98256	339.97975	4.44316	0.1424751	3.1142032414691
(500443)	16.7	263.03796	260.73856	213.48992	11.06665	0.0070529	2.8991121414691
(500444)	16.7	25.24517	68.86025	238.51627	4.64932	0.1275743	3.0648803414691
(500445)	16.7	340.69542	354.52987	10.36403	9.49329	0.0989217	3.0575438414692

(500446)	16.6	245.75085	125.56113	338.33892	9.27886	0.0389101	3.0711892414692
(500447)	15.8	210.89497	106.91868	55.73437	16.70459	0.0302068	3.1544078414692
(500448)	16.4	39.06959	76.75873	231.22194	9.11639	0.0450127	3.0411192414693
(500449)	17.6	336.14885	137.81689	236.14596	6.65688	0.2511632	3.0501334414693
(500450)	16.5	272.15379	81.46442	0.50150	6.85627	0.1677475	3.1625817414693
(500451)	17.2	324.09446	141.78455	249.09451	3.77704	0.1507435	3.0576947414693
(500452)	17.3	27.26713	164.94828	155.26575	3.38083	0.1528785	2.9543555414693
(500453)	16.6	288.40169	15.14748	35.22331	9.30524	0.0557259	3.1041782414694
(500454)	16.8	358.01720	216.95144	102.80541	2.41875	0.1628682	3.1282649414694
(500455)	18.1	119.90650	120.49203	245.13910	8.61473	0.1552936	2.4352521414694
(500456)	16.5	342.50768	36.51207	351.26298	9.19614	0.0800683	3.0025176414694
(500457)	16.8	278.66778	20.80253	56.31398	6.12514	0.1131197	3.0645894414695
(500458)	16.8	352.05163	188.06565	145.11729	9.28557	0.0610675	3.1329117414695
(500459)	16.6	153.29962	125.77791	90.39018	6.67857	0.0448935	2.8808229414695
(500460)	16.3	220.97889	124.60736	5.11625	12.63219	0.1266216	3.1465488414695
(500461)	16.9	350.78012	294.32192	38.62632	1.49561	0.1693420	3.1539470414696
(500462)	16.8	347.12380	255.73247	88.33489	2.56319	0.1852660	3.0756321414696
(500463)	16.2	328.03555	186.31590	222.03390	19.34659	0.1245463	3.0290506414696
(500464)	16.8	330.50750	294.48148	58.25332	1.24472	0.2197659	3.1398963414696
(500465)	17.1	250.70649	102.38619	24.53205	8.52340	0.1729362	2.9723428414697
(500466)	16.2	201.86155	320.89014	190.73947	11.43551	0.1998627	3.0992778414697
(500467)	16.2	348.45087	314.51341	46.68984	8.72393	0.1958931	3.1292070414697
(500468)	16.9	348.19950	318.25269	38.68364	9.45444	0.0992337	3.0558156414697
(500469)	17.1	315.36905	264.36408	149.84235	5.28570	0.1372515	2.9890329414698
(500470)	17.0	316.84844	244.02996	150.45539	5.09741	0.0734521	3.0607486414698
(500471)	16.9	2.50079	257.55700	70.28965	0.08750	0.1290984	3.1140186414698
(500472)	18.3	48.03721	135.77267	184.26909	22.19698	0.0320723	1.8434694414698
(500473)	16.7	327.34430	296.88419	72.93520	6.44031	0.1526313	3.0921588414698
(500474)	16.6	38.71226	211.53383	121.20652	6.76747	0.0734870	2.8962317414699
(500475)	16.3	261.91535	336.23267	112.81299	6.22309	0.1123157	3.1260350414699
(500476)	16.6	287.73927	272.10702	146.52217	5.80151	0.1988492	3.1665821414699
(500477)	16.7	315.42284	25.24111	29.76983	12.95212	0.1585012	3.0085561414699
(500478)	16.5	347.80978	193.62331	181.66055	10.65373	0.1119313	2.9752299414700
(500479)	17.1	18.03725	136.03085	185.91212	6.35104	0.2398149	2.9902553414700
(500480)	16.2	292.52522	264.42032	181.96793	10.10669	0.2355719	3.0813075414700
(500481)	18.3	341.60625	163.43974	199.48776	24.73938	0.0608240	1.8939625414700
(500482)	16.6	304.72198	44.99930	352.83880	8.95581	0.0944399	3.1615286414701
(500483)	16.1	84.72500	242.16764	11.38040	16.53710	0.1681205	3.0939688414701
(500484)	16.0	45.22795	282.25488	350.70298	14.67837	0.1913296	3.1914354414701
(500485)	15.7	125.56686	272.02908	308.44416	9.56617	0.0890950	3.1359638414702
(500486)	17.2	318.41338	263.94872	145.50351	5.21576	0.2445928	2.9734426414702
(500487)	16.5	313.92987	43.95649	29.75793	12.18480	0.0385059	2.8883576414702
(500488)	16.6	342.37613	192.98919	156.78812	3.94016	0.1937491	3.1352972414702
(500489)	16.8	269.43801	84.88321	348.39169	9.52615	0.0932815	3.1443335414703
(500490)	16.6	196.13320	131.61792	27.97329	9.99118	0.0895007	3.0573883414703
(500491)	16.9	311.99428	22.32193	35.83088	8.70203	0.1068763	2.9963716414703
(500492)	16.9	306.04445	214.09306	199.61182	10.62550	0.0734371	3.0492653414703
(500493)	17.1	317.12776	253.32634	182.64780	5.83014	0.0693098	2.8755244414704
(500494)	16.5	319.50840	291.88419	80.18508	6.18205	0.1456271	3.1926912414704
(500495)	16.4	250.84764	50.19685	56.54342	8.16917	0.1070110	3.1387572414704
(500496)	16.5	243.45053	69.63499	55.44121	11.81444	0.0795450	3.0639960414704
(500497)	17.7	351.13724	235.07369	156.57472	4.54455	0.1533305	2.8613884414704
(500498)	16.9	179.81861	356.74284	207.91367	9.08304	0.0299260	2.9052187414705
(500499)	17.3	288.15625	32.31865	50.05864	2.38537	0.2281967	3.0927303414705
(500500)	16.4	8.78314	39.16891	302.36484	4.63275	0.1476909	3.0106609414705
(500501)	16.0	317.73961	186.58530	211.66363	17.37527	0.2179423	3.1350577414705
(500502)	16.3	14.77998	131.59587	200.94272	16.79764	0.1500190	3.0525826414706
(500503)	16.7	336.19239	161.62823	200.44396	5.12726	0.1477954	3.1653867414706
(500504)	16.4	80.44038	230.90470	18.93263	9.87423	0.0976968	3.1373536414706
(500505)	16.4	312.18223	340.94815	64.22517	6.27863	0.1410236	3.1043400414706
(500506)	16.5	319.79573	326.17608	68.80910	3.72248	0.0945207	3.1065135414707
(500507)	16.6	280.14710	204.72670	248.39212	12.75521	0.1439203	3.0218746414707
(500508)	16.1	4.33778	64.27850	256.99857	9.59845	0.0770896	3.1819509414707
(500509)	16.5	306.83611	98.75715	285.05389	7.63781	0.1145836	3.2053961414707
(500510)	16.2	16.11396	52.84078	265.47648	10.00900	0.0894650	3.1128629414707
(500511)	16.6	288.67802	119.51303	296.12522	9.28218	0.0913886	3.1554757414708
(500512)	16.6	5.23930	83.34187	260.34548	10.14530	0.0786513	3.0591401414708
(500513)	16.5	266.46675	130.76539	320.79702	9.09533	0.0355000	3.0601401414708
(500514)	16.7	325.46726	218.25622	177.47153	10.15097	0.1770178	3.0679401414708
(500515)	15.9	275.38297	237.70072	238.05557	15.46987	0.2421070	3.0687324414709
(500516)	16.3	284.49070	60.91108	11.90605	13.60357	0.1270964	3.1425830414709
(500517)	16.5	356.16731	131.12869	196.80824	8.56178	0.1115324	3.2006472414709
(500518)	16.9	82.75350	145.47041	125.40469	8.85839	0.1882474	2.7718669414709
(500519)	15.8	338.72222	332.35856	23.83268	9.60641	0.1014916	3.1834847414710
(500520)	16.7	350.08224	237.00939	119.00396	3.30102	0.2309927	3.0315465414710
(500521)	17.1	323.27561	164.54129	235.08156	4.09167	0.1523159	2.9934382414710
(500522)	16.2	355.56145	31.18040	349.52217	16.98880	0.1574717	2.9186376414711
(500523)	16.0	348.85238	88.51296	264.31485	13.82735	0.1447097	3.1423100414711
(500524)	16.2	320.79945	44.03352	350.78868	15.93106	0.2124947	3.1302947414711
(500525)	18.8	296.57125	225.99643	186.02217	22.34674	0.1104657	1.8692047414711
(500526)	16.4	317.02711	46.06128	356.12501	5.61312	0.1672079	3.0770891414712
(500527)	17.4	108.80178	312.09104	55.86944	10.22942	0.2438534	2.4288224414712
(500528)	16.8	322.02578	244.00211	126.26718	5.72503	0.2357506	3.1075683414712
(500529)	16.3	298.68160	288.22967	123.76454	10.73277	0.1886437	3.1030092414712
(500530)	17.7	169.73031	175.41599	359.89221	21.48560	0.1173935	1.9217290414713
(500531)	16.1	295.47408	294.71876	142.60230	13.82132	0.2400946	3.1062891414713
(500532)	15.8	334.48872	94.50037	269.97483	7.89783	0.1367944	3.1350129414713
(500533)	16.9	332.78374	273.27010	100.56508	2.77494	0.1163751	3.0806904414713
(500534)	16.8	322.04322	231.38766	169.70127	5.73637	0.1150011	3.0160186414714
(500535)	17.0	353.75371	317.01051	36.40616	6.43593	0.0388995	3.0805866414714
(500536)	16.4	20.32017	285.60087	38.44028	10.03972	0.0782111	3.0676171414714
(500537)	18.8	340.56824	17.63756	7.06385	20.66915	0.0686280	1.8512008414714
(500538)	17.1	347.55999	340.98047	45.78202	9.84782	0.1016987	2.9359640414715
(500539)	16.3	287.68170	120.08642	301.97251	10.20605	0.0185152	3.1161318414715
(500540)	17.2	310.48707	94.99813	326.77889	8.39527	0.3493698	3.0792082414715
(500541)	16.0	184.97132	246.54124	320.69512	9.75446	0.0716238	2.8640109414715
(500542)	16.4	45.86683	311.59964	338.77790	9.86588	0.1976419	3.0554360414716
(500543)	16.6	6.87153	40.97055	313.22892	7.43063	0.1192719	2.9968763414716
(500544)	16.8	311.47579	253.96020	172.61832	17.20694	0.0920716	2.9803910414716
(500545)	16.2	322.65938	129.17547	273.99587	8.38826	0.0981890	3.1410029414716
(500546)	16.5	313.23059	218.41874	192.36219	29.26186	0.3350006	3.0983122414717
(500547)	16.5	290.21801	199.80625	263.87832	7.68566	0.2550577	3.0397535414717
(500548)	16.2	335.23991	309.67003	48.54254	5.80742	0.1834033	3.2048803414717
(500549)	16.8	329.90357	173.68269	201.22993	0.53594	0.1803192	3.1626731414717

(500550)	16.3	274.92330	204.70874	240.81320	9.73085	0.0736522	3.1257510414718
(500551)	16.6	324.02562	300.89997	87.29914	3.06871	0.1792711	3.0969494414718
(500552)	16.3	26.51332	277.47330	39.35390	11.20103	0.0781095	3.0928247414718
(500553)	16.5	334.52760	155.28910	213.63341	9.92277	0.0882216	3.1406865414718
(500554)	16.1	17.92722	117.61514	202.17417	17.20071	0.1462342	3.0857089414719
(500555)	16.8	340.52039	203.78627	169.43780	5.50841	0.2444224	3.0624740414719
(500556)	16.7	336.05553	187.12590	170.12229	5.31458	0.1626758	3.1956368414719
(500557)	16.6	8.70833	258.45009	61.88779	2.18699	0.1527860	3.2072170414720
(500558)	16.0	36.21202	94.39112	219.53912	10.37015	0.0875171	3.1232144414720
(500559)	17.4	350.80628	206.95179	162.52456	0.75107	0.2032785	3.0533376414720
(500560)	16.7	248.52977	131.74179	355.13925	5.00953	0.1325012	3.1098031414720
(500561)	16.1	79.16593	239.59029	32.50842	11.96320	0.0903344	3.1209773414721
(500562)	16.8	2.47038	145.87595	222.50726	15.69532	0.2184233	2.9760535414721
(500563)	18.3	225.24781	91.61402	245.42139	3.30821	0.1509530	2.2017041414721
(500564)	16.2	257.63684	79.14373	40.47657	19.85557	0.1517063	3.1313971414721
(500565)	18.3	144.87074	21.07290	190.55794	21.91041	0.0449129	1.8780416414722
(500566)	18.9	10.09609	151.08656	188.83564	22.04693	0.0622165	1.8772520414722
(500567)	16.6	266.29971	274.04540	187.98844	10.47463	0.1003692	3.1710225414722
(500568)	16.5	327.88765	332.14519	53.29009	6.30102	0.1351753	3.1787473414722
(500569)	16.9	303.69029	338.28195	80.09715	2.22174	0.1639493	3.1581707414722
(500570)	18.0	245.99682	278.63966	186.73768	21.78472	0.1108223	1.8922449414723
(500571)	17.0	21.44711	134.18302	195.87890	7.22675	0.1862310	2.9805992414723
(500572)	16.4	339.52028	103.59802	246.59383	3.30351	0.1948845	3.1805010414723
(500573)	16.2	356.53106	33.00046	314.52936	4.22740	0.1518895	3.1253911414723
(500574)	16.8	0.26115	357.40038	351.93273	4.36208	0.1582891	3.1005923414724
(500575)	16.1	289.87404	189.56467	244.90025	9.89543	0.0683275	3.1296908414724
(500576)	16.9	16.21036	280.84809	65.96898	14.53323	0.2931328	2.9673717414724
(500577)	15.8	329.48308	119.08053	280.10424	7.92571	0.0811781	3.1198277414725
(500578)	16.4	354.80113	108.61811	275.43877	8.45100	0.1102936	3.0325771414725
(500579)	16.1	12.96173	69.79747	260.43251	8.91891	0.2139006	3.1407174414725
(500580)	16.4	335.01697	306.93884	84.55631	6.37037	0.1430188	3.0837508414725
(500581)	16.9	327.23600	176.13778	223.64861	3.77764	0.1250369	3.1085997414726
(500582)	17.0	321.85335	357.76608	54.84522	1.56760	0.1771069	3.0814426414726
(500583)	17.0	323.87603	355.60819	53.27290	2.76020	0.1830418	3.0900700414726
(500584)	17.7	136.40066	341.94629	56.76448	4.02303	0.1794007	2.3373612414726
(500585)	16.4	342.58452	77.43140	267.89581	9.50975	0.0744488	3.1154782414727
(500586)	16.3	345.68203	319.61376	25.98795	5.09148	0.2202025	3.1306947414727
(500587)	16.7	292.61502	199.56732	215.30748	9.15205	0.0714025	3.1595262414727
(500588)	16.7	304.31452	162.23034	234.46358	3.93600	0.0466671	3.1369659414727
(500589)	16.7	278.84522	280.90451	203.67773	10.98150	0.1092260	2.9313009414728
(500590)	16.5	47.21137	170.81259	133.62926	2.99434	0.0471712	3.1451942414728
(500591)	16.6	14.39629	135.11462	211.68130	8.70883	0.1505631	3.0203863414728
(500592)	16.1	303.92503	110.50813	302.45228	9.08424	0.0905150	3.1117167414728
(500593)	16.3	310.70708	188.69628	223.38320	9.96690	0.0817469	3.0878848414729
(500594)	16.3	305.59090	44.83385	32.56539	20.46457	0.1143439	3.0039648414729
(500595)	15.5	270.02816	40.47889	55.13266	25.18035	0.0945922	3.1901530414729
(500596)	16.6	339.89427	255.93461	118.73522	3.14656	0.1220196	3.1228656414729
(500597)	18.5	282.05918	211.60321	213.78668	20.08980	0.0928192	1.9097320414730
(500598)	16.9	347.75528	336.70102	16.73681	4.97803	0.1357535	3.0865002414730
(500599)	16.8	347.82995	318.26987	59.60505	2.67976	0.1181228	3.0983202414730
(500600)	16.0	297.90445	184.94485	235.81426	28.65434	0.1752792	3.1760160414730
(500601)	16.3	320.44757	135.25414	266.33248	9.31753	0.1061036	3.1266283414731
(500602)	16.4	16.86912	92.46183	264.41523	9.05750	0.0568968	3.0338771414731
(500603)	16.1	44.52315	305.94946	18.27061	11.62010	0.1639522	2.9925473414731
(500604)	16.2	301.59781	182.65156	245.99476	8.07961	0.0752945	3.1211195414731
(500605)	16.2	298.24329	187.66073	247.71245	8.14956	0.0854850	3.1126543414732
(500606)	16.2	315.06023	40.19094	9.15456	16.40918	0.1208703	3.1136564414732
(500607)	16.8	318.98468	116.44397	300.38448	7.28814	0.0773060	3.0201219414732
(500608)	16.2	327.80586	103.33031	302.53259	7.45430	0.1102063	3.0016348414732
(500609)	16.8	320.95925	251.52753	180.85817	15.36355	0.3587962	2.9895139414733
(500610)	18.5	251.61328	88.58094	28.64030	20.67603	0.0995746	1.8823622414733
(500611)	16.4	312.11233	65.66014	349.63842	18.29746	0.1022543	3.0184978414733
(500612)	16.5	312.82330	104.52959	292.88433	11.43001	0.1085307	3.0951443414733
(500613)	16.1	323.28887	27.60525	334.80073	11.78824	0.1260061	3.2142196414734
(500614)	16.8	349.98455	199.61869	157.30127	5.41995	0.1352879	3.1017965414734
(500615)	15.8	252.39877	190.26046	277.38087	10.64992	0.0970503	3.1337238414734
(500616)	15.9	203.02700	182.66254	328.95376	11.27558	0.0691933	3.1506538414734
(500617)	16.9	294.38137	97.15132	357.29834	3.33122	0.1954643	3.0312330414734
(500618)	17.9	126.94306	357.85400	206.27835	23.54979	0.0763767	1.9301623414735
(500619)	16.5	248.29992	106.53036	19.56968	10.07992	0.1948834	3.1424357414735
(500620)	16.4	306.17246	34.69750	28.37684	15.44613	0.0632727	3.0709363414735
(500621)	17.4	315.64749	335.49107	90.96438	3.60370	0.3020322	3.0796701414735
(500622)	16.7	328.92709	204.15940	202.14466	5.07209	0.1406801	3.0685279414736
(500623)	16.9	256.79143	71.83250	26.98453	1.43433	0.1776846	3.1795473414736
(500624)	16.2	50.10235	300.30158	323.53287	4.03723	0.1222916	3.2420452414736
(500625)	16.4	355.04176	342.05842	6.37099	9.02853	0.0327626	3.1155637414736
(500626)	16.2	205.50318	188.87977	320.59689	9.44964	0.0217462	3.1202390414737
(500627)	16.1	283.91304	106.59354	329.27706	9.91873	0.1050600	3.1208560414737
(500628)	17.6	321.11740	55.34218	5.53400	1.75202	0.2377648	3.0044838414737
(500629)	16.1	323.61876	43.84648	24.26396	9.66608	0.0525979	2.9681912414737
(500630)	16.4	346.73434	118.74864	259.56221	8.55936	0.0710725	3.0998419414738
(500631)	15.8	70.76701	27.19910	242.84607	29.94731	0.0380926	3.1861017414738
(500632)	15.7	298.21731	99.83790	354.60640	12.64914	0.1223656	2.9912314414738
(500633)	18.0	223.89879	252.88569	227.63756	19.03446	0.1126935	1.9517123414738
(500634)	18.0	340.04952	118.80658	238.00535	20.73560	0.0982961	1.9210597414739
(500635)	16.2	322.94341	37.41384	11.28098	8.65920	0.1084572	3.0677495414739
(500636)	16.6	350.28540	211.14777	148.45040	12.71978	0.1269342	3.0813512414739
(500637)	16.9	282.24051	343.63401	108.26506	11.62867	0.0805558	3.0218774414740
(500638)	17.8	331.11544	10.77027	8.21629	14.75894	0.2700204	1.8254534414740
(500639)	18.4	62.98368	79.02495	193.19797	21.98762	0.0192920	1.9135273414740
(500640)	17.8	53.03100	275.23046	35.48074	22.02221	0.0773954	1.8708950414740
(500641)	16.6	263.61753	37.74805	60.47710	7.10012	0.0856363	3.1304989414741
(500642)	16.4	309.24739	306.58795	92.23486	13.19097	0.1455602	3.1490931414741
(500643)	16.1	36.12462	283.04398	11.13736	9.83840	0.0665482	3.1405524414741
(500644)	16.6	294.60938	228.05024	184.66153	1.70723	0.1012212	3.1563647414741
(500645)	16.7	280.38392	33.01324	43.57045	5.71917	0.1231343	3.1396343414742
(500646)	16.7	225.72240	92.72786	43.96686	0.33385	0.1263779	3.1532797414742
(500647)	15.8	240.65221	81.55376	39.02620	17.33771	0.1386840	3.1669489414742
(500648)	17.3	344.86861	127.89957	209.92984	0.60524	0.1644137	3.1264792414742
(500649)	17.4	273.19477	34.99680	70.49409	1.94123	0.1665040	3.0674013414743
(500650)	16.7	346.18273	316.05171	48.30427	3.29470	0.0895992	3.0972652414743
(500651)	16.4	291.09332	308.12239	113.30616	12.38129	0.1547696	3.1614094414743
(500652)	17.0	343.37189	123.10169	234.57825	8.60723	0.1412320	3.0967093414743
(500653)	15.8	307.47394	30.34840	36.18721	9.55590	0.0880626	3.1034675414744

(500654)	16.6	346.25186	268.95493	116.82807	3.10557	0.0928227	3.0744230414744
(500655)	16.6	314.62313	238.60973	184.61102	4.95357	0.1465567	3.0840299414744
(500656)	16.8	337.35047	204.04930	206.21765	8.37141	0.1160117	3.0001448414744
(500657)	16.4	6.05030	257.23144	67.94966	14.70827	0.3682413	3.0890292414744
(500658)	16.8	337.64413	285.76686	114.09606	2.32169	0.2016816	3.0904299414745
(500659)	16.7	305.83408	16.05592	28.10488	9.88482	0.0962029	3.1245747414745
(500660)	16.6	329.34543	328.48652	46.94807	1.25724	0.1894123	3.1536218414745
(500661)	17.2	276.87910	76.60247	15.12713	0.79121	0.1605339	3.1393768414746
(500662)	16.6	311.43457	32.91247	351.70469	5.89418	0.1215998	3.2058023414746
(500663)	16.3	245.92824	161.88650	311.43688	3.76432	0.1191834	3.1459437414746
(500664)	17.1	326.99803	108.48310	300.31372	0.83022	0.1639432	2.9937111414746
(500665)	18.5	109.25206	2.97394	219.93587	19.76700	0.0478039	1.9110276414747
(500666)	17.0	345.54525	111.70061	284.74354	4.48205	0.0896027	2.9372719414747
(500667)	16.0	314.76013	17.10255	13.37833	10.60910	0.0059463	3.1146022414747
(500668)	17.3	291.27882	46.66414	8.57935	1.66198	0.1765118	3.1573624414747
(500669)	16.1	330.11211	147.54380	250.19927	8.18389	0.0937140	3.1156821414748
(500670)	16.0	288.45756	189.74065	251.06556	9.76963	0.0583394	3.1569528414748
(500671)	16.1	349.92593	318.85279	64.49426	12.21522	0.2161089	3.0743111414748
(500672)	15.8	333.77743	303.07114	71.84221	12.18379	0.0777020	3.1969212414748
(500673)	16.4	342.24203	259.48313	131.64998	9.59417	0.2128320	3.0085532414749
(500674)	16.9	353.60082	279.01359	68.40188	2.61123	0.1908391	3.0826106414749
(500675)	16.8	39.87057	105.32940	199.39640	4.36945	0.1378210	3.1602407414749
(500676)	17.1	316.53312	17.30140	60.12322	10.85191	0.1831935	3.0002247414749
(500677)	16.3	320.93665	341.35964	55.20924	11.50648	0.1340387	3.1395248414750
(500678)	16.5	158.15788	125.49079	78.98033	6.18765	0.0668998	3.1225986414750
(500679)	16.6	31.69305	245.10474	77.75233	6.13742	0.2281730	2.9948528414750
(500680)	16.4	266.16661	251.27828	208.44496	9.69046	0.0937533	3.1703767414750
(500681)	16.2	312.64570	346.17955	74.60112	13.79549	0.1543425	3.1310062414751
(500682)	16.3	33.52896	266.62571	55.79873	12.93739	0.0573745	3.1212677414751
(500683)	16.2	345.19399	313.45401	60.31375	12.33643	0.0913282	3.1581361414751
(500684)	16.2	2.11635	199.22514	171.38215	10.30104	0.0686936	3.1312316414751
(500685)	16.5	344.01460	312.86211	58.45420	10.14908	0.2159674	3.1402346414752
(500686)	16.6	328.86870	301.80131	96.58431	3.29002	0.1484058	3.1056860414752
(500687)	16.4	341.69044	173.28747	222.10254	8.61363	0.0684419	3.1068337414752
(500688)	16.5	11.32308	118.16158	221.37454	8.53627	0.1024622	3.1983913414752
(500689)	16.2	4.44418	139.24088	226.01913	9.05140	0.0806657	3.1117966414753
(500690)	16.4	266.30171	68.82457	75.05656	10.19401	0.2009015	3.0521212414753
(500691)	16.4	347.23369	329.54100	47.93437	10.22554	0.1234332	3.0901904414753
(500692)	16.7	353.50464	282.80726	83.26753	2.99924	0.1877808	3.0744895414753
(500693)	15.6	148.07012	358.98864	226.87286	18.14541	0.1255660	3.0843119414753
(500694)	18.1	357.31257	303.50491	47.12699	22.73400	0.1178123	1.9045558414754
(500695)	17.4	316.03198	128.14456	278.67744	0.53956	0.2454058	3.1335865414754
(500696)	16.8	289.46027	39.59959	58.12938	5.29063	0.2104859	3.0840874414754
(500697)	16.8	0.40300	272.53381	75.63326	1.79009	0.2215369	3.0973940414755
(500698)	16.0	334.43087	318.57279	96.21128	27.98973	0.1737828	3.1891107414755
(500699)	16.9	40.74774	59.19156	249.49228	7.56330	0.1018910	3.2082821414755
(500700)	17.1	313.97061	355.53380	52.56160	1.29994	0.1911393	3.1490708414755
(500701)	16.8	293.11741	207.49967	240.80458	8.71563	0.0730061	3.0684069414755
(500702)	16.8	3.81169	193.89354	163.12533	3.64945	0.2567624	3.0675295414756
(500703)	17.7	69.34305	219.95075	54.31416	22.51178	0.0956955	1.9178846414756
(500704)	15.8	301.66459	25.64056	49.34659	28.63233	0.1313517	3.1134634414756
(500705)	16.8	341.75655	319.90901	83.34784	3.64808	0.0876637	3.0349429414757
(500706)	17.0	332.70004	328.78853	95.75265	5.77698	0.1168755	2.9853239414757
(500707)	16.2	321.93729	3.95919	50.23974	15.61143	0.0312969	3.1027283414757
(500708)	16.3	357.15311	340.79297	48.91404	10.20618	0.0885405	3.0090330414757
(500709)	16.6	315.81124	198.89919	214.29608	4.95050	0.1470062	3.1084692414757
(500710)	16.9	295.22613	259.95277	186.46867	1.48323	0.1652690	3.1820357414758
(500711)	18.0	162.62434	294.15863	258.26980	18.01436	0.0946890	1.9368601414758
(500712)	16.5	24.44332	114.83983	232.94670	7.43737	0.1275330	3.0077959414758
(500713)	16.0	353.04379	313.35596	75.22464	11.80250	0.1423993	3.0314977414758
(500714)	16.1	352.60531	290.47661	67.41361	27.09507	0.2344757	3.1590621414759
(500715)	18.4	293.47109	348.42585	92.83739	25.02995	0.0804020	1.8858443414759
(500716)	17.2	305.09867	12.32005	51.29905	2.20244	0.1883383	3.1505570414759
(500717)	16.0	40.45285	250.80952	71.74710	10.40389	0.0684595	3.1676780414759
(500718)	15.7	340.03011	135.73260	255.04042	8.04557	0.0943063	3.1245780414760
(500719)	16.4	36.89287	84.68100	237.86811	8.85114	0.0836373	3.1461234414760
(500720)	17.2	318.24361	132.67336	274.23957	4.42130	0.1814425	3.1897826414760
(500721)	16.4	331.14388	307.00023	98.78715	2.66216	0.1723979	3.1204568414760
(500722)	16.9	331.92268	340.35520	79.80235	8.47097	0.2038649	3.0387570414761
(500723)	17.4	316.99728	255.36679	169.34087	0.81636	0.1843117	3.1198316414761
(500724)	16.1	27.23135	83.94276	259.73262	8.27269	0.1188080	3.1510927414761
(500725)	16.1	342.61004	317.51256	73.73282	10.56234	0.0969856	3.1666415414762
(500726)	17.6	125.84526	127.21649	99.20037	24.53207	0.0477317	1.9782096414762
(500727)	16.9	355.08534	306.81274	59.42157	2.62140	0.1124814	3.0455626414762
(500728)	16.6	346.30771	268.47576	109.67983	4.14113	0.0463920	3.1931449414762
(500729)	16.9	318.87857	275.04232	146.54456	8.10762	0.1874283	3.1139169414762
(500730)	16.3	323.89965	328.30282	92.68445	11.24190	0.0764532	3.0461866414763
(500731)	16.7	320.30140	280.44327	171.50059	12.10542	0.1744063	2.9936959414763
(500732)	16.2	357.94043	177.74358	211.26966	11.37050	0.1166296	3.0716660414763
(500733)	15.4	346.74708	92.87452	297.14636	24.54127	0.2667550	3.1692939414763
(500734)	17.7	259.99410	186.64529	272.32178	19.15561	0.0411019	1.9708142414764
(500735)	16.8	21.49465	178.58112	181.22939	8.87723	0.0935891	3.0791711414764
(500736)	17.1	333.51529	141.94762	257.23879	3.92540	0.2471337	3.0743612414764
(500737)	17.0	324.28685	200.86709	211.43002	3.15887	0.1924941	3.0487450414765
(500738)	16.2	340.82471	96.30272	285.54436	14.49837	0.2531732	3.1645726414765
(500739)	15.3	328.95263	137.64042	264.41265	20.70713	0.1481425	3.1671098414765
(500740)	16.4	336.91871	311.20684	83.89401	6.39307	0.1427685	3.1067227414765
(500741)	16.7	258.40370	11.54920	124.06758	7.02025	0.0933052	3.0796743414766
(500742)	15.8	318.36930	313.16292	136.76355	10.90103	0.0725248	2.9904323414766
(500743)	18.5	261.88773	162.87380	292.09977	16.36989	0.1582248	1.9167946414766
(500744)	17.5	154.01957	207.16500	298.48771	25.47209	0.2086209	2.1577347414766
(500745)	16.2	344.45272	277.69004	113.88287	10.63171	0.2509853	3.2808613414767
(500746)	18.2	325.89723	292.44731	106.56385	24.07441	0.1027391	1.9400732414767
(500747)	16.3	331.29042	357.25594	60.97194	11.82905	0.1102229	3.1980446414767
(500748)	18.6	275.88601	142.81991	295.33178	17.17706	0.1052951	1.9744756414767
(500749)	16.7	1.87780	49.13443	251.11845	21.89820	0.7497521	2.8707254414768
(500750)	18.3	298.02593	320.20888	126.35579	23.32449	0.0889119	1.9040038414768
(500751)	16.2	298.79867	333.10241	115.20506	11.78813	0.2465751	3.2482050414768
(500752)	18.2	277.43109	103.10837	346.80182	18.15548	0.1267105	1.9306935414768
(500753)	16.2	346.72966	67.30526	340.71935	15.10984	0.2383152	3.1134835414769
(500754)	16.2	354.90011	25.13009	14.36921	17.45967	0.2168928	3.1429494414769
(500755)	15.8	340.75221	303.10320	127.01908	11.03788	0.0918286	3.1661389414769
(500756)	17.9	153.39415	259.80157	305.04465	17.42983	0.0440296	1.9837282414770
(500757)	16.5	11.79750	297.15661	101.35798	11.00372	0.1515465	3.0704329414770

(500758)	17.6	67.78083	6.64330	272.68547	18.01078	0.0348153	1.9450433414770
(500759)	18.0	131.63787	338.69054	260.44961	17.89223	0.0406583	1.9587569414770
(500760)	16.6	326.41839	320.03269	112.60012	12.14286	0.2642147	3.1370870414771
(500761)	18.0	356.27526	84.15745	270.94141	16.10976	0.1138187	1.9718359414771
(500762)	17.6	237.03719	194.33944	299.61187	17.52008	0.1009824	1.9786074414771
(500763)	17.9	301.87965	256.57394	154.04896	24.27126	0.1157990	1.9831839414772
(500764)	18.3	25.23719	36.02317	302.96681	16.53959	0.0757519	1.9834142414772
(500765)	17.8	340.33853	101.08907	297.72718	17.41334	0.1065065	1.9306906414772
(500766)	18.6	134.24201	180.84583	352.81036	3.02296	0.0852572	2.1466522414772
(500767)	18.0	42.08355	238.23528	352.29067	2.35783	0.1024289	2.2819477414773
(500768)	18.7	51.40942	316.58869	299.37431	0.63567	0.1697840	2.1950746414773
(500769)	17.8	74.07537	284.34047	298.66171	7.31675	0.3131160	2.2724009414773
(500770)	16.6	326.81144	286.21314	156.56001	13.81547	0.2857220	3.1665781414773
(500771)	18.0	61.04276	339.99449	263.10436	6.24804	0.1148091	2.2011673414774
(500772)	17.9	17.03149	176.98862	84.83069	3.53831	0.1869895	2.3165423414774
(500773)	15.7	152.10125	99.46658	127.87180	3.88829	0.1273853	3.9561578414774
(500774)	17.5	121.59360	260.19441	255.05364	3.92563	0.0603400	2.2457068414775
(500775)	16.2	329.73746	35.20899	60.57879	17.75097	0.2641790	3.1244758414775
(500776)	18.3	75.10462	105.79397	111.28994	2.70669	0.1604071	2.2657374414775
(500777)	17.5	63.16651	356.64283	212.13773	6.98483	0.1419872	2.3117496414775
(500778)	17.6	5.95247	341.71480	290.40386	7.21809	0.2277532	2.3279161414775
(500779)	16.3	308.98175	304.19975	175.52630	26.88093	0.3660075	3.1766445414776
(500780)	18.2	18.51742	126.13588	136.58466	5.76822	0.1449220	2.3257567414776
(500781)	18.3	84.42041	314.69478	244.68313	4.55468	0.2719318	2.3244399414776
(500782)	18.5	18.55994	310.54206	297.98937	0.64983	0.1545926	2.3604428414776
(500783)	15.0	165.18613	142.93124	71.54984	9.36801	0.1111619	3.9475817414777
(500784)	14.6	149.76207	306.86110	210.50529	3.52765	0.0267742	5.1775521414777
(500785)	18.8	91.18505	95.66853	144.63781	3.72466	0.1532922	2.1710194414777
(500786)	15.8	317.97527	15.62529	95.01573	9.39720	0.0859081	3.3506975414777
(500787)	17.2	65.00380	232.97776	38.34341	22.87960	0.3565196	2.2562072414778
(500788)	17.4	78.55522	148.30852	72.61381	10.99898	0.2888284	2.2825756414778
(500789)	17.6	41.44979	286.23998	350.78502	7.15554	0.1187605	2.2210803414778
(500790)	18.1	135.34855	83.34909	74.87252	5.49603	0.2136844	2.2362822414779
(500791)	18.2	55.82568	242.27414	34.71634	6.59532	0.2627908	2.2516296414779
(500792)	17.0	1.26881	148.57472	153.93064	23.41651	0.1718068	2.3197090414779
(500793)	17.6	210.21674	136.38786	22.85681	19.66309	0.0489988	2.0132668414779
(500794)	18.0	37.37805	233.91546	36.10005	6.46142	0.1198855	2.2804256414780
(500795)	18.5	54.34891	273.52626	1.99209	3.75687	0.1382711	2.2086937414780
(500796)	17.5	34.82040	214.60252	63.83317	7.75341	0.1695949	2.2710864414780
(500797)	18.5	73.12112	58.46439	187.18391	5.56324	0.1843609	2.2133622414781
(500798)	17.9	52.02796	25.94002	223.35831	3.82485	0.1910078	2.3116632414781
(500799)	18.5	54.62962	192.61969	64.37461	1.44741	0.2022285	2.2780200414781
(500800)	18.6	121.43941	20.30110	157.70891	5.48439	0.2558520	2.2457513414781
(500801)	17.9	30.01849	348.18040	30.17638	20.39252	0.0766511	1.9780476414782
(500802)	18.2	66.58961	226.02590	52.72050	6.13620	0.1711707	2.1930440414782
(500803)	17.3	53.86620	249.04895	16.92836	23.56339	0.1343930	2.2590036414782
(500804)	18.6	130.66255	233.30973	307.10499	3.02321	0.1125249	2.2427411414782
(500805)	16.2	312.72320	285.47556	206.47340	19.03829	0.2922312	3.1811931414783
(500806)	17.5	40.73353	178.32474	115.01399	8.73812	0.1781998	2.2403935414783
(500807)	18.1	44.97747	41.16043	230.63379	3.53259	0.0772855	2.2567383414783
(500808)	18.2	122.25981	127.32241	84.69508	4.93878	0.0945716	2.1804091414783
(500809)	17.5	47.68026	134.98632	126.28150	5.93125	0.2021870	2.2947277414784
(500810)	18.3	67.48946	195.42109	30.38334	6.23311	0.1184204	2.3283541414784
(500811)	18.2	133.48937	232.82779	339.46862	4.30878	0.1434493	2.1566819414784
(500812)	18.4	105.81240	180.01497	28.36980	4.81633	0.0760689	2.2467576414785
(500813)	18.5	19.30167	175.14796	134.93777	2.13504	0.2165752	2.2923327414785
(500814)	18.0	52.11252	328.19760	272.96495	2.40967	0.1442492	2.3552913414785
(500815)	17.9	54.09643	159.90665	154.11225	6.81193	0.2572077	2.1975609414785
(500816)	18.7	80.38820	76.93113	162.20415	8.77458	0.1673297	2.2607224414786
(500817)	18.2	98.56285	31.14781	187.71964	5.03280	0.0988354	2.2387570414786
(500818)	18.0	61.84836	358.25429	233.24394	1.72222	0.1816468	2.3507598414786
(500819)	18.3	106.16498	203.38377	18.62640	5.52804	0.1202815	2.2272195414786
(500820)	17.7	63.75301	184.73057	68.41034	6.23056	0.1790394	2.3276135414787
(500821)	17.3	24.74713	316.24288	27.27764	3.01850	0.1769108	2.1389544414787
(500822)	18.0	37.27649	295.92720	340.93446	2.59947	0.2012319	2.2954559414787
(500823)	18.7	101.11793	148.78471	62.67024	3.44150	0.1482722	2.2479109414787
(500824)	17.3	9.88513	277.68896	58.05639	10.21301	0.0866212	2.2180419414788
(500825)	18.0	62.04106	164.03147	135.93219	4.94732	0.1956951	2.2039800414788
(500826)	17.2	82.34204	12.65183	257.68879	6.07668	0.1205518	2.1856321414788
(500827)	18.1	51.28655	268.07148	16.61602	5.53322	0.2254758	2.2536244414788
(500828)	7.8	332.40519	52.83643	198.66131	1.63905	0.0825788	43.9955617414789
(500829)	7.4	179.46113	356.09500	40.87303	12.07577	0.1472862	42.6210043414789
(500830)	7.9	31.08493	127.43689	49.19285	8.30015	0.1731444	44.5021554414789
(500831)	8.2	63.78556	299.22100	216.02785	7.42828	0.0373690	41.3964575414789
(500832)	8.2	354.46499	36.25687	213.91385	18.32311	0.6171004	88.5724932414790
(500833)	8.3	17.81110	353.61459	204.39868	6.92429	0.1102853	39.6876494414790
(500834)	7.2	159.21855	12.79793	44.99996	9.84930	0.1723520	39.3947305414790
(500835)	7.0	33.35316	106.95666	72.45245	2.75752	0.0706305	44.4398575414790
(500836)	7.4	45.22654	72.24982	90.50431	2.84604	0.1356669	46.0632898414790
(500837)	7.4	72.36550	112.48089	25.24856	2.29027	0.1069580	44.9298322414790
(500838)	6.8	230.34817	286.92694	69.85039	3.19081	0.0777758	44.0943321414791
(500839)	7.7	347.51342	187.78500	46.32437	5.00611	0.0692673	43.1986665414791
(500840)	7.8	339.47360	182.21907	63.45401	3.89285	0.0519126	44.1387438414791
(500841)	18.1	357.92128	26.03423	256.76757	5.26985	0.1306288	2.4077903414791
(500842)	18.7	145.04552	287.41435	239.86214	3.28474	0.1221832	2.2366314414791
(500843)	18.4	0.92928	43.01247	288.87219	4.28621	0.1738679	2.2349650414792
(500844)	18.4	1.94469	17.72651	302.79480	4.29962	0.1677083	2.2736297414792
(500845)	18.4	136.11247	291.70952	247.28044	3.80488	0.0053695	2.2413666414792
(500846)	18.5	67.98287	271.26419	349.19596	3.45455	0.1470624	2.2421546414792
(500847)	17.8	98.29421	23.27527	214.97399	7.24982	0.1745962	2.2067688414793
(500848)	19.1	170.99555	183.89385	350.07359	4.26666	0.0171211	2.1503551414793
(500849)	18.1	33.82012	92.31773	230.27685	5.51508	0.1220252	2.1631671414793
(500850)	18.6	15.50245	92.15182	209.43007	8.21930	0.2400819	2.3412963414793
(500851)	18.2	25.37645	84.15720	230.01679	2.63426	0.1934677	2.2451365414794
(500852)	18.3	15.18118	303.84537	2.09595	3.51443	0.1956148	2.2910933414794
(500853)	18.0	336.12732	144.16295	206.00330	6.55876	0.1387873	2.2512302414794
(500854)	17.7	137.01383	182.76089	3.02930	8.26080	0.0407984	2.2269082414795
(500855)	18.6	215.42493	274.36498	190.92182	5.19514	0.1075607	2.1922790414795
(500856)	7.6	240.58450	288.54164	54.52361	3.67031	0.0117593	44.3442172414795
(500857)	18.2	56.01877	139.06498	124.66077	2.20638	0.1702842	2.3375545414795
(500858)	18.3	146.49183	196.61312	347.33866	5.99642	0.0571817	2.1991187414796
(500859)	18.2	35.78796	147.85898	128.61972	1.80401	0.1814047	2.3471699414796
(500860)	18.3	34.56470	98.40161	191.04520	5.16613	0.1694532	2.3128185414796
(500861)	17.7	77.75352	188.37979	61.47963	6.96713	0.1555768	2.2661934414796

(500862)	18.1	29.98116	273.18613	59.87107	3.52008	0.0895724	2.1732692414797
(500863)	17.8	158.15025	53.14592	95.78733	6.94423	0.0683201	2.3178602414797
(500864)	16.9	8.70063	58.34821	185.79629	11.57652	0.2190149	2.5856065414797
(500865)	17.0	81.10059	192.63139	72.38730	7.02225	0.1182956	2.2415201414797
(500866)	18.6	32.05186	75.16175	210.68324	6.11578	0.2174435	2.3587860414798
(500867)	18.1	75.10478	24.01516	209.46334	5.94212	0.0743570	2.3327090414798
(500868)	18.5	88.40250	185.09167	55.12208	3.69398	0.1642632	2.2726208414798
(500869)	17.9	39.02392	150.00359	147.43860	6.43935	0.1770255	2.3264117414799
(500870)	18.4	79.77597	212.82635	66.96121	6.32960	0.1854978	2.2090329414799
(500871)	16.1	342.20009	113.17243	41.44069	9.18296	0.1624877	3.0208633414799
(500872)	18.0	2.40353	312.13974	358.46066	1.46321	0.1867557	2.3638784414799
(500873)	18.3	194.81135	270.29862	213.04617	4.81347	0.0785031	2.2332614414800
(500874)	18.2	43.97147	239.51856	60.09566	7.18289	0.1739157	2.2500184414800
(500875)	18.2	87.39322	77.61341	133.66723	2.00285	0.1526135	2.3498733414800
(500876)	8.0	359.22846	177.84731	67.54131	50.22648	0.4168256	73.0537466414800
(500877)	8.2	26.31969	89.85425	107.11932	8.33023	0.2914611	48.2675008414801
(500878)	7.7	218.32684	183.11813	207.85081	18.16164	0.1028649	41.9675880414801
(500879)	5.8	50.05874	61.13625	86.05755	13.70534	0.3863060	59.7634015414801
(500880)	7.4	303.07436	179.95482	128.10763	7.65053	0.0844381	48.1204972414801
(500881)	8.2	30.00361	49.94465	165.26089	7.28448	0.0541785	42.6566588414801
(500882)	8.3	12.55205	79.26647	146.37280	7.74101	0.2950083	53.6117856414802
(500883)	7.4	89.53829	275.31546	214.80016	19.76382	0.2545549	39.6126522414802
(500884)	9.6	349.74209	185.76634	83.11734	20.01774	0.2622426	39.7475687414802
(500885)	9.0	53.09112	26.87396	145.66104	7.25143	0.2342072	39.5945577414802
(500886)	7.4	174.39779	346.23256	79.95685	19.60240	0.0056720	40.9394383414802
(500887)	8.2	321.50627	112.70702	175.01049	9.94835	0.0843664	42.7189761414802
(500888)	8.0	64.08683	339.94336	191.95958	12.44660	0.0668856	41.5681221414803
(500889)	17.4	353.99884	255.87683	79.19462	6.64521	0.1403911	2.3570686414803
(500890)	18.1	63.90863	170.36431	72.28998	4.60292	0.1927458	2.3489071414803
(500891)	18.0	12.83118	163.95082	138.66354	2.33804	0.1823914	2.3907742414803
(500892)	18.4	7.22045	171.64000	166.91204	6.13786	0.2628563	2.3458664414804
(500893)	18.1	30.79006	237.03634	73.43637	7.16933	0.1287325	2.3021172414804
(500894)	18.2	27.95950	235.88267	77.17313	3.13751	0.2535492	2.3445479414804
(500895)	18.5	124.22548	114.68981	123.50095	4.47805	0.1534256	2.1847628414804
(500896)	17.8	7.25742	245.45780	69.18386	7.11218	0.1615654	2.3604709414805
(500897)	18.5	38.25315	112.08126	170.67189	0.95969	0.1637805	2.3455303414805
(500898)	16.2	327.08716	245.28344	91.95689	8.07624	0.2694579	2.5277886414805
(500899)	17.6	45.99997	89.50825	188.95407	7.16870	0.0990178	2.2992307414805
(500900)	17.8	15.58823	120.98336	183.99410	7.32329	0.2421284	2.3985463414806
(500901)	17.8	33.32570	156.49938	156.05425	6.08121	0.1914498	2.4145086414806
(500902)	17.9	37.00360	109.01925	206.36377	4.32302	0.1887583	2.4023813414806
(500903)	18.1	71.60870	196.93353	79.39361	3.24848	0.2054872	2.3236827414807
(500904)	16.4	358.27730	13.00056	256.50504	14.11572	0.0975315	2.5751574414807
(500905)	17.7	51.51463	57.00585	199.77673	6.27632	0.1400621	2.3831459414807
(500906)	18.2	48.09991	204.00619	84.21884	2.37160	0.1784747	2.3904181414807
(500907)	18.4	36.21472	27.85630	289.68868	0.96755	0.1767252	2.3422131414808
(500908)	17.7	75.20112	288.43164	347.24847	6.46401	0.1029764	2.3664829414808
(500909)	18.0	116.52884	135.10558	105.12046	5.20232	0.1038598	2.2967918414808
(500910)	16.7	263.17926	171.93015	276.57935	7.25573	0.2830959	2.8826524414808
(500911)	17.1	7.17628	299.11267	5.81084	5.77542	0.1885994	2.5368319414809
(500912)	18.1	351.60929	91.23045	280.47892	13.76530	0.4181855	2.5029469414809
(500913)	17.8	29.09599	209.03298	126.95832	7.77484	0.1464403	2.3403367414809
(500914)	16.7	358.78305	139.11824	240.54029	7.08025	0.2557728	2.4426874414810
(500915)	17.8	193.51848	217.43409	310.35007	5.41203	0.0589370	2.4466440414810
(500916)	17.7	354.55698	331.79622	350.41147	5.61564	0.2283692	2.5401948414810
(500917)	17.1	325.37850	129.95579	269.99093	5.18376	0.3492414	2.6109646414811
(500918)	18.4	356.02314	162.93135	172.08805	12.67959	0.2016119	2.5379484414811
(500919)	17.6	22.13750	98.69016	217.66609	2.78226	0.2158169	2.4654459414811
(500920)	16.8	330.36245	209.77394	182.43307	33.91120	0.2832384	2.5928842414812
(500921)	16.7	297.91348	122.27747	300.18855	10.81833	0.2843995	2.6430097414812
(500922)	17.8	153.48534	204.49303	316.01657	45.58244	0.6116184	1.5526000414812
(500923)	17.9	291.00932	202.48639	196.09940	2.95073	0.1278247	2.6532507414813
(500924)	17.2	56.27935	348.92605	304.73810	5.63694	0.1140419	2.4559852414813
(500925)	17.4	288.97993	87.22985	316.67651	8.28516	0.1278080	2.6022391414813
(500926)	17.1	98.22849	58.11755	165.22812	9.44196	0.2024411	2.4576162414814
(500927)	18.3	17.35483	168.62707	164.25472	7.08179	0.2077707	2.4751895414814
(500928)	18.0	98.26896	130.00536	129.27413	3.31175	0.1918568	2.3579000414814
(500929)	17.9	322.95854	115.13240	279.91228	7.17713	0.1832399	2.4577608414815
(500930)	18.1	345.94659	30.21903	311.06047	2.39172	0.2004959	2.5773316414815
(500931)	18.0	298.87865	207.53736	213.16697	2.71717	0.1153524	2.5129522414815
(500932)	17.3	9.00775	185.42121	120.32661	13.97091	0.1797753	2.7310844414815
(500933)	17.5	352.99052	10.88446	344.30630	3.43984	0.1531387	2.5140510414816
(500934)	17.8	119.99458	21.84039	175.85648	6.48294	0.1232967	2.6167781414816
(500935)	17.9	291.11743	84.38474	335.40011	12.39155	0.1778306	2.5881895414816
(500936)	18.0	114.71727	43.84137	184.75008	7.30657	0.1257969	2.3786479414817
(500937)	17.7	273.99103	230.05540	197.06603	5.02351	0.1355072	2.5155816414817
(500938)	17.7	355.12664	160.29373	207.08397	2.74862	0.2032108	2.4753592414817
(500939)	17.2	25.80570	23.61027	292.43885	7.02297	0.1933637	2.4372075414818
(500940)	18.1	25.88774	298.80607	337.65190	10.51742	0.3129700	2.5552933414818
(500941)	16.9	337.65819	31.96792	339.75975	13.06578	0.2825199	2.6078318414818
(500942)	18.3	355.86308	143.68188	191.19900	5.93867	0.2770251	2.5312514414819
(500943)	17.2	294.10105	62.71937	328.08026	12.02667	0.1701828	2.6507562414819
(500944)	17.7	34.17518	61.92966	236.48912	1.77664	0.1807147	2.4771848414819
(500945)	17.3	344.07951	128.40083	230.30732	4.31558	0.3577080	2.6134795414819
(500946)	18.1	23.25166	132.71952	209.11808	5.11349	0.2216966	2.4051100414820
(500947)	18.1	321.36816	52.48371	320.91792	2.41195	0.1349596	2.6082743414820
(500948)	17.4	298.74020	62.36233	320.76718	9.57102	0.0952365	2.6480602414821
(500949)	17.0	233.61900	143.13640	324.43083	32.81636	0.2052966	2.6077871414821
(500950)	17.2	306.58874	282.61369	127.24872	14.01530	0.1174081	2.6416885414821
(500951)	17.5	85.04612	83.43910	167.11281	2.68642	0.1686186	2.4502319414822
(500952)	17.1	350.39383	183.24027	156.86015	7.06548	0.1804602	2.5717524414822
(500953)	17.8	323.99455	194.22415	163.83583	0.13751	0.0463556	2.6191156414822
(500954)	17.9	350.68790	217.46286	177.71251	7.16610	0.1870030	2.4128304414822
(500955)	16.9	12.32204	359.56627	343.24959	14.82129	0.1611420	2.4423636414823
(500956)	17.7	68.88556	331.07937	264.38649	6.78230	0.1783272	2.5848539414823
(500957)	18.1	334.49702	113.31635	308.79960	1.54022	0.2129381	2.4034577414824
(500958)	18.1	320.40600	229.04527	143.92055	6.32896	0.1330185	2.5730457414824
(500959)	17.5	292.69697	39.38802	340.87154	5.24282	0.0759560	2.6750188414824
(500960)	16.4	332.35477	359.64955	21.79873	14.11978	0.2557248	2.6157228414824
(500961)	17.9	115.63379	51.81393	178.23086	8.49975	0.1851300	2.4394845414825
(500962)	18.1	72.35221	60.31741	207.14941	0.94743	0.1559968	2.4546609414825
(500963)	18.5	315.31916	222.34826	179.40175	4.53919	0.2040915	2.5334174414825
(500964)	17.0	295.91132	275.74721	119.53219	6.18679	0.1776184	2.6525130414826
(500965)	18.0	347.19885	290.36803	38.06824	4.64352	0.1884388	2.6304858414826

(500966)	17.5	63.48680	100.13720	158.21443	9.26865	0.2401179	2.4348127414826
(500967)	17.6	357.66398	211.41233	162.07284	7.60867	0.1910022	2.3990735414826
(500968)	18.1	5.10613	29.73373	281.92100	2.17456	0.2247703	2.5787397414827
(500969)	17.9	25.16077	23.72919	295.46520	0.68860	0.1815846	2.4708468414827
(500970)	17.6	28.83552	234.94487	87.90002	4.08283	0.1979808	2.4048455414827
(500971)	17.4	309.15474	42.60130	5.61006	12.37050	0.1620667	2.5854450414828
(500972)	17.5	305.44828	49.60630	21.98601	5.01776	0.1753748	2.4527334414828
(500973)	17.6	43.86167	153.60729	159.81914	5.10499	0.2327157	2.4159445414828
(500974)	17.3	335.51365	32.88692	330.16723	5.87387	0.2582966	2.5953913414828
(500975)	17.4	34.05733	359.29553	271.85488	2.11988	0.1236026	2.6266347414829
(500976)	18.1	324.78887	75.46168	317.00464	3.96756	0.1851985	2.5174463414829
(500977)	17.2	75.90960	249.89927	335.74004	10.73363	0.1367711	2.6279123414829
(500978)	16.9	333.57262	359.70204	357.61731	14.45526	0.2672224	2.6033528414829
(500979)	17.9	346.37117	238.41169	108.24144	4.86108	0.3026318	2.5768657414830
(500980)	17.2	26.14017	69.86343	251.87699	5.71503	0.1416413	2.4672023414830
(500981)	17.6	333.14314	198.23098	157.45943	6.52572	0.0378616	2.5664341414830
(500982)	17.2	250.98837	296.26533	144.91886	10.86558	0.1234569	2.5536640414830
(500983)	17.9	359.28524	317.65706	20.60615	1.39481	0.2001892	2.5098692414831
(500984)	16.8	315.21296	152.11894	234.44085	4.95113	0.1674297	2.7068585414831
(500985)	17.8	343.13536	135.54646	196.39553	1.78771	0.0913652	2.6897553414831
(500986)	18.2	26.38469	331.56050	339.38865	3.17292	0.1087992	2.5506394414831
(500987)	18.0	291.28844	157.55691	238.75940	2.00759	0.1062049	2.6629085414832
(500988)	17.5	321.54482	26.85778	348.19788	8.15683	0.1908465	2.6026888414832
(500989)	18.7	357.79440	340.61904	349.22246	4.74323	0.2819169	2.5731235414832
(500990)	17.7	21.60308	23.93151	259.72712	2.73206	0.1593744	2.6139208414832
(500991)	17.7	290.87089	226.71273	189.91093	9.13539	0.0930306	2.5365796414833
(500992)	17.9	16.04553	335.03705	323.04421	4.46003	0.1365499	2.6328412414833
(500993)	17.6	19.55911	335.56762	333.51003	9.43105	0.2308470	2.5501208414833
(500994)	17.5	39.58926	319.98969	353.01657	2.53660	0.2250987	2.4300303414833
(500995)	17.0	314.41436	6.53628	353.07269	5.99278	0.0329601	2.7178176414834
(500996)	16.4	315.07162	40.45323	357.13027	11.92825	0.1607901	2.6309369414834
(500997)	17.2	343.21175	168.16156	177.72578	10.07315	0.1631781	2.6292530414835
(500998)	17.6	348.33271	186.07303	191.73569	7.20906	0.1427636	2.4678140414835
(500999)	17.0	249.24817	101.56745	356.72761	11.80373	0.1324902	2.6925956414835
(501000)	16.9	335.50604	15.16422	349.61491	14.31669	0.1670363	2.6244359414835
(501001)	17.6	337.66628	87.51253	284.62573	5.24727	0.1911735	2.5509751414836
(501002)	17.0	263.09931	40.18713	23.05290	6.70016	0.0079638	2.7552257414836
(501003)	17.2	241.09630	13.34446	61.91403	2.91645	0.0521689	2.8405133414836
(501004)	17.4	58.02847	196.09916	68.26448	2.36667	0.1101849	2.6963123414836
(501005)	17.0	3.34378	357.66387	331.89323	13.41401	0.1758384	2.5938107414837
(501006)	17.8	353.28022	28.83330	306.53373	6.56369	0.2064729	2.5794533414837
(501007)	17.5	355.49066	204.44317	128.24381	6.55104	0.2853598	2.5871760414837
(501008)	17.3	5.80991	359.30848	329.55097	8.91196	0.1694617	2.5738637414838
(501009)	17.1	331.82501	351.56856	1.62434	6.08782	0.0369263	2.6841565414838
(501010)	17.9	3.45363	158.88044	165.52534	2.45624	0.2230668	2.5989408414838
(501011)	17.1	12.92981	312.80469	2.47953	10.79418	0.1424243	2.6108650414839
(501012)	17.9	15.54330	138.32673	180.01257	4.13359	0.1298274	2.5864980414839
(501013)	16.7	116.26521	203.72285	1.78034	16.82379	0.1172927	2.6671681414839
(501014)	17.8	47.14235	212.92788	82.64232	2.68955	0.1840063	2.4618460414839
(501015)	17.4	16.70813	30.23648	282.06855	3.50247	0.1037398	2.6069843414840
(501016)	18.4	354.76564	41.40929	310.55167	2.46029	0.1737059	2.5499065414840
(501017)	17.7	321.04465	184.98344	190.77144	7.59331	0.1891311	2.6426738414840
(501018)	17.2	9.78032	2.32439	335.44105	11.71065	0.1326744	2.5470030414840
(501019)	16.9	252.24792	150.57819	286.21755	4.04720	0.1009091	2.7723324414841
(501020)	17.8	347.93452	47.96287	338.28471	0.77885	0.1884446	2.4484615414841
(501021)	17.2	308.63376	89.33998	301.93012	10.19798	0.1583595	2.6189284414841
(501022)	17.5	332.98418	60.27031	301.41369	3.59373	0.2037707	2.6299604414842
(501023)	17.7	10.64345	354.40556	314.81868	3.61734	0.1891921	2.6071613414842
(501024)	16.5	75.85694	168.14089	100.81607	11.41272	0.0823033	2.6216551414842
(501025)	16.4	3.96942	31.63938	316.80485	12.99041	0.1875933	2.5909525414842
(501026)	17.6	303.48109	207.22382	170.39732	6.17146	0.0546690	2.6757541414843
(501027)	17.6	329.35937	44.18102	359.73383	6.69721	0.1228405	2.4597867414843
(501028)	16.9	312.72942	169.07906	235.32024	2.86045	0.1951201	2.6380726414843
(501029)	17.8	328.00800	180.47116	185.99251	7.70196	0.2084233	2.6181721414844
(501030)	17.3	354.06843	36.70119	314.98514	8.29195	0.2085624	2.5823753414844
(501031)	17.4	24.21546	335.50619	351.34812	7.67973	0.1400783	2.5440133414844
(501032)	17.6	307.48971	60.14593	319.35725	3.04390	0.1135743	2.7385708414845
(501033)	17.8	10.87375	307.21195	59.38938	3.35003	0.2088783	2.4452200414845
(501034)	17.7	38.88764	175.73984	169.82021	13.80316	0.2045767	2.3922351414845
(501035)	16.9	313.64910	176.70324	223.88514	12.79462	0.2491013	2.6293417414845
(501036)	17.2	292.68833	242.80421	154.14984	2.59909	0.1841437	2.7238003414846
(501037)	17.3	358.19280	188.34655	135.15457	3.26262	0.1859965	2.6507276414846
(501038)	17.4	311.16404	17.17176	357.92560	5.83924	0.0523913	2.7277669414846
(501039)	18.2	348.36064	38.13273	309.69599	19.00654	0.2403193	2.5588328414846
(501040)	18.1	330.90588	211.77832	167.25144	6.13990	0.2327414	2.5661475414847
(501041)	18.3	279.82727	215.87428	199.30659	3.01643	0.1347467	2.6543324414847
(501042)	17.4	342.67766	70.68944	266.85948	1.06749	0.0861798	2.6797625414847
(501043)	18.8	9.19182	131.34773	202.44568	13.82241	0.2842585	2.5340104414847
(501044)	16.8	316.56128	53.94988	340.40271	12.21902	0.1861445	2.6187097414848
(501045)	16.7	50.48202	288.07332	358.27952	14.59300	0.1368062	2.5941229414848
(501046)	16.7	324.05144	26.01247	18.35589	14.13760	0.2518313	2.6203348414848
(501047)	18.0	356.43117	271.39473	67.85763	3.45473	0.2736323	2.5829559414849
(501048)	16.8	13.58290	190.27718	158.78509	16.55916	0.1893007	2.5240604414849
(501049)	16.9	4.33621	349.36831	345.21377	5.42730	0.2107320	2.6032437414849
(501050)	18.2	349.06883	304.80762	55.85218	6.15866	0.2555200	2.5706235414850
(501051)	17.7	5.21993	139.38858	207.11170	10.21926	0.2059935	2.5184261414850
(501052)	16.9	241.34840	214.83545	290.47229	11.18134	0.0932623	2.3874550414850
(501053)	17.0	53.51818	33.06381	254.73097	9.87609	0.1443911	2.5248736414851
(501054)	17.1	353.14607	352.99699	5.39368	5.10315	0.3023006	2.5848213414851
(501055)	17.5	355.66499	13.99262	316.40370	2.50218	0.1356579	2.6109919414851
(501056)	17.4	357.52121	145.23984	180.70957	6.86094	0.0542569	2.6516580414852
(501057)	17.6	307.65997	19.83127	15.13754	2.38603	0.1300417	2.6400027414852
(501058)	17.1	328.78223	50.12525	348.32279	17.81275	0.2697381	2.5746156414852
(501059)	17.7	27.34044	43.33016	287.69733	9.16275	0.2006876	2.4502332414853
(501060)	17.8	317.56767	76.89392	330.17981	10.55169	0.1901285	2.5729661414853
(501061)	16.8	351.16968	3.00640	13.67305	29.85875	0.1735632	2.5728159414853
(501062)	17.1	327.56699	33.53044	3.55607	4.23123	0.3077087	2.6019926414853
(501063)	15.9	134.90822	311.84109	246.67413	9.63016	0.2121567	2.5782845414854
(501064)	17.2	322.29613	2.52205	39.09750	4.22113	0.2228229	2.6097045414854
(501065)	17.8	272.31388	272.45747	155.10235	2.63566	0.0915386	2.6385042414855
(501066)	17.7	302.91766	38.55892	1.08053	14.77838	0.0877672	2.6014517414855
(501067)	17.4	270.02782	312.11093	116.86657	3.88301	0.0392928	2.6290613414855
(501068)	17.7	321.35798	22.05365	14.99675	4.47326	0.1439751	2.6075267414855
(501069)	17.6	310.07098	247.67197	174.21073	10.23295	0.2224943	2.4708147414856

(501070)	18.1	3.97523	262.88259	64.11362	3.98756	0.2518472	2.5829487414856
(501071)	17.2	318.52529	159.09248	241.45903	5.95330	0.2164916	2.5284929414856
(501072)	17.3	319.97921	116.56462	222.41740	7.92723	0.2014355	2.7295837414857
(501073)	17.4	290.31205	110.86414	303.00481	8.64629	0.1842296	2.6021593414857
(501074)	17.3	334.59166	204.54800	165.36863	6.38150	0.3303059	2.6424870414857
(501075)	17.7	300.60566	313.50618	122.13819	3.33006	0.1503098	2.5940144414858
(501076)	16.5	33.28539	292.74036	37.66079	14.98271	0.1499698	2.5939478414858
(501077)	16.9	299.39531	320.51947	86.36683	3.29952	0.1769820	2.6921373414858
(501078)	17.3	71.94171	260.80789	2.79787	4.59886	0.1911774	2.5508660414858
(501079)	16.1	4.76029	298.11508	7.52257	8.18938	0.0354027	2.7954097414859
(501080)	18.1	353.37940	168.23393	201.26098	14.98644	0.2839645	2.5394149414859
(501081)	17.3	329.73260	181.61526	204.48295	11.75793	0.1949206	2.6780669414859
(501082)	16.6	41.30969	331.36458	333.07151	14.21542	0.1043382	2.5572089414860
(501083)	17.4	273.82902	316.89896	89.08520	3.73311	0.0253954	2.7544107414860
(501084)	15.8	190.47974	160.19046	308.78241	16.32530	0.1688326	3.1219670414860
(501085)	17.4	331.78997	201.98146	169.24601	9.50065	0.1552565	2.5962208414861
(501086)	16.3	288.43415	128.62010	292.04114	21.15181	0.0394785	2.5626790414861
(501087)	17.4	296.77195	81.52445	351.10427	14.52974	0.0896824	2.4818178414861
(501088)	17.3	9.82179	152.77864	157.67044	2.79208	0.1922770	2.6198106414862
(501089)	16.9	336.99621	331.19832	25.60422	8.87009	0.2321337	2.6269506414862
(501090)	17.5	359.28053	182.38255	171.11350	14.64584	0.1951060	2.5343280414862
(501091)	17.3	285.95038	32.43431	8.43461	6.39227	0.0641410	2.6778642414863
(501092)	17.7	11.84578	183.81587	171.38195	6.81400	0.1262052	2.4546230414863
(501093)	17.9	22.82659	313.77734	0.10683	3.93856	0.1297210	2.5485955414863
(501094)	17.3	344.87888	87.69337	256.44782	10.23088	0.1850800	2.6176477414863
(501095)	17.3	330.04722	282.78548	80.52975	4.12903	0.2241107	2.6936263414864
(501096)	17.5	350.54541	152.59719	196.01988	6.03267	0.3142684	2.6535083414864
(501097)	16.3	247.02615	206.93778	234.16137	9.62364	0.1028846	2.9964038414864
(501098)	17.4	324.30676	192.92774	222.32012	4.60099	0.2452034	2.6292667414864
(501099)	16.8	317.35820	344.52787	50.17748	9.68893	0.2089439	2.7413586414865
(501100)	16.7	352.35765	337.29463	45.55872	8.31427	0.1968887	2.5930654414865
(501101)	17.3	315.66852	104.33985	305.82818	11.88266	0.2585610	2.6221094414865
(501102)	17.7	358.71606	237.56898	105.75132	5.78831	0.2995328	2.5822582414865
(501103)	16.1	252.31659	184.43276	260.33769	14.22478	0.1062281	2.8359787414866
(501104)	17.0	39.81234	182.52545	123.71514	7.54172	0.2177214	2.5404307414866
(501105)	7.1	18.53101	140.31517	207.52853	40.88515	0.0694053	41.5947480414866
(501106)	17.7	325.35270	200.82440	172.83870	4.34010	0.1464564	2.6424383414867
(501107)	16.8	16.52563	329.84284	331.09671	15.01737	0.1897051	2.6591419414867
(501108)	16.9	325.75807	82.66489	305.87752	13.50455	0.1403413	2.6293638414867
(501109)	17.2	303.96224	358.14971	62.94952	7.25621	0.2004047	2.6469500414867
(501110)	17.0	351.51142	59.87570	270.66200	10.87554	0.1948696	2.6272042414868
(501111)	16.9	317.02924	348.84355	36.04087	14.39648	0.2444846	2.6905300414868
(501112)	16.5	130.27719	199.43779	19.24175	5.26968	0.1002647	2.5430764414868
(501113)	17.1	51.13693	143.17431	166.37684	9.59270	0.0518585	2.5595592414869
(501114)	17.2	28.51018	340.55810	8.63874	5.20161	0.1417254	2.4464786414869
(501115)	17.0	11.51092	112.01285	222.14930	24.84675	0.4013345	2.5574888414869
(501116)	18.0	350.92321	299.61171	50.54465	3.73606	0.2027915	2.6069814414870
(501117)	17.9	6.58916	172.12752	151.41934	5.52829	0.1991130	2.6043888414870
(501118)	18.0	9.57967	47.22246	294.09915	1.96644	0.1810214	2.5832145414870
(501119)	17.1	279.51322	83.37922	312.41729	5.62882	0.0767185	2.7968373414870
(501120)	17.8	294.69818	27.92678	26.38314	2.83500	0.2027528	2.6694493414871
(501121)	18.0	27.09600	262.76074	60.19021	2.22172	0.1449893	2.5321343414871
(501122)	16.4	344.15776	102.78731	246.69611	5.57877	0.0180540	2.7694007414871
(501123)	17.9	1.82797	11.19531	338.61560	2.99776	0.1712326	2.6049753414871
(501124)	16.9	43.31928	67.21778	219.67385	12.09922	0.1011292	2.7187175414872
(501125)	17.7	332.08522	19.82886	7.90563	5.05536	0.2215922	2.5799700414872
(501126)	17.9	7.11174	337.66210	18.43828	7.15307	0.0809859	2.5314955414872
(501127)	17.0	326.26120	41.58667	323.33882	4.71959	0.1005791	2.7199712414872
(501128)	17.5	345.23584	158.84755	195.57138	5.08480	0.2849676	2.6131103414873
(501129)	17.6	332.71034	127.77163	262.41679	0.70137	0.1681130	2.5992033414873
(501130)	17.7	324.73041	202.44371	203.59464	3.56430	0.2958694	2.5976541414873
(501131)	17.2	8.22937	130.77056	201.82118	13.07952	0.1975695	2.6284714414874
(501132)	16.9	342.96498	36.71363	324.37759	5.95137	0.0732760	2.7317320414874
(501133)	17.8	339.73061	88.28418	294.39992	3.45904	0.2842742	2.6005212414874
(501134)	17.8	323.47615	50.63090	15.48685	14.52163	0.2521392	2.5608866414874
(501135)	17.1	313.13075	186.39460	204.09687	5.63406	0.0543627	2.7023465414875
(501136)	17.2	244.70317	36.46618	39.84775	2.37501	0.0461118	2.8546469414875
(501137)	16.9	322.58816	348.88779	14.38220	10.97454	0.1644623	2.7442682414875
(501138)	17.5	305.50002	55.53846	14.98966	13.13950	0.1737908	2.5812081414876
(501139)	17.3	285.88562	201.85310	219.47451	4.67342	0.0698588	2.6789910414876
(501140)	17.0	8.09597	97.85058	226.24093	11.81840	0.3008487	2.6103662414876
(501141)	18.0	20.23446	12.27124	305.08724	3.83330	0.3142864	2.5655256414876
(501142)	17.2	328.14298	131.34239	237.01865	7.14331	0.2406954	2.6974616414877
(501143)	17.6	0.42810	71.10850	265.40623	3.79859	0.2743693	2.6045428414877
(501144)	17.2	25.35608	12.38685	294.60026	4.01534	0.2337299	2.6014535414877
(501145)	17.0	7.71149	114.29237	216.21635	15.27316	0.2436363	2.5914791414878
(501146)	16.3	136.35729	273.79162	248.97619	9.52187	0.1647673	3.0565130414878
(501147)	18.0	331.40835	238.81523	127.82155	6.30082	0.3126905	2.6374185414878
(501148)	17.4	341.04370	333.96181	6.57574	4.15580	0.0814485	2.7558775414878
(501149)	17.1	306.68944	221.33225	208.61092	12.90083	0.2310550	2.6516637414879
(501150)	17.2	287.85548	115.13352	316.68157	7.86024	0.1413962	2.6327293414879
(501151)	17.8	18.11694	251.02936	51.44912	2.40222	0.2273351	2.6266719414879
(501152)	17.9	355.39186	145.87210	183.89797	1.83840	0.1178632	2.6307199414880
(501153)	18.0	327.82948	17.66704	10.92904	1.81062	0.1413797	2.6243663414880
(501154)	17.5	352.37005	341.46249	8.41529	7.97959	0.2049343	2.5620657414880
(501155)	17.8	336.76956	161.44694	196.20137	3.67761	0.2253685	2.6845673414880
(501156)	17.4	0.80532	79.07117	259.67777	3.16313	0.2923389	2.6147605414881
(501157)	17.0	320.32407	198.46781	223.23582	11.68100	0.2398153	2.5873656414881
(501158)	17.5	338.19021	86.99193	299.73443	10.31771	0.2012408	2.5499957414881
(501159)	17.2	249.06293	97.76589	342.86177	2.90626	0.1649350	2.8517680414881
(501160)	16.5	271.04877	59.05940	2.23499	22.18012	0.0431268	2.6663943414882
(501161)	18.2	333.07929	26.77317	346.77165	3.79331	0.2493583	2.5901886414882
(501162)	18.2	191.06435	302.99492	41.46472	22.46696	0.1032816	1.9211508414882
(501163)	17.5	358.97112	174.32148	184.43533	11.84366	0.0702835	2.5659812414882
(501164)	17.7	347.39203	189.58715	204.08915	10.15013	0.2560040	2.4617114414883
(501165)	17.8	343.16205	145.79586	216.73630	11.09548	0.1863017	2.6308470414883
(501166)	17.2	324.84194	23.67393	343.84687	4.76653	0.1403242	2.7296050414883
(501167)	17.1	300.28212	151.28779	250.22298	3.42495	0.1200916	2.7245942414884
(501168)	18.2	334.93005	146.14916	250.57025	2.87521	0.2667777	2.5666299414884
(501169)	17.8	14.57885	120.39899	230.58352	4.70765	0.1444742	2.5375941414884
(501170)	17.6	349.51619	358.37430	357.69388	4.29116	0.2257398	2.6238032414884
(501171)	17.1	270.77540	227.84031	212.71458	10.90984	0.2282850	2.7740857414885
(501172)	17.3	346.96601	160.55736	201.79403	7.05754	0.1861941	2.6315140414885
(501173)	17.2	357.56167	145.57157	205.34561	10.72424	0.1203719	2.6471154414885

(501174)	17.4	346.74746	160.45320	201.50435	13.98831	0.2635653	2.5888051414885
(501175)	17.1	300.22280	197.26642	196.58347	5.06644	0.1375678	2.8090162414886
(501176)	17.9	354.98382	209.49635	153.60871	2.46073	0.1728909	2.6101928414886
(501177)	17.5	62.62419	91.75948	217.32367	10.19347	0.1070543	2.4646985414886
(501178)	16.4	318.05796	205.28187	182.35586	8.78082	0.1247315	2.7116616414886
(501179)	17.7	339.12178	48.45675	4.14013	9.43995	0.2880442	2.5299379414887
(501180)	16.5	302.22039	26.77150	15.35178	15.05194	0.1926513	2.7581244414887
(501181)	17.4	281.49375	45.52729	11.74502	3.46441	0.0916461	2.7495951414887
(501182)	17.4	40.38626	267.87476	17.33732	7.01565	0.2208486	2.6277508414887
(501183)	17.1	303.04904	207.61473	196.95485	5.03184	0.0916527	2.6935689414888
(501184)	18.1	333.13603	147.38782	229.97423	1.30562	0.2313295	2.6298860414888
(501185)	17.5	318.69069	203.82249	198.43393	4.98200	0.2526386	2.6259641414888
(501186)	16.7	1.95867	329.06254	354.70174	13.50491	0.1934156	2.7194969414888
(501187)	16.9	309.02608	49.85240	6.75436	9.73751	0.1595344	2.6471336414889
(501188)	16.8	284.96434	130.82616	286.12450	3.33689	0.0810001	2.7679426414889
(501189)	17.4	301.48685	171.71638	245.29952	5.31943	0.1859356	2.6976848414889
(501190)	16.9	315.35300	343.54153	39.67464	6.50333	0.0519245	2.7331721414889
(501191)	16.9	327.84436	191.55317	202.65603	12.10433	0.0728038	2.6161841414890
(501192)	16.9	317.37825	210.01614	204.26376	21.94875	0.0446581	2.5710069414890
(501193)	17.0	41.96323	271.61887	28.94398	4.39512	0.2331604	2.6431385414890
(501194)	16.8	309.29698	127.59192	261.79513	5.56637	0.0638254	2.7393788414891
(501195)	18.7	324.33517	91.73019	310.02103	1.48022	0.2260785	2.5928285414891
(501196)	17.1	283.85023	83.35431	4.02113	12.27840	0.1246152	2.6181319414891
(501197)	18.8	342.15697	138.38516	251.81254	1.67134	0.3252938	2.5456171414892
(501198)	17.4	339.25238	60.24181	312.14833	2.67322	0.2094058	2.5905407414892
(501199)	17.2	323.13442	108.25981	268.77580	4.16320	0.0726600	2.7275914414892
(501200)	17.7	50.64515	102.69035	203.11842	10.04246	0.1927213	2.4458796414892
(501201)	17.0	6.85057	355.92990	327.91554	9.14868	0.1238679	2.6320614414893
(501202)	18.3	322.19595	294.94563	119.83142	5.97608	0.2995058	2.6175040414893
(501203)	16.3	324.62495	241.32112	193.09198	30.29455	0.2678008	2.6012107414893
(501204)	17.1	283.88912	104.82251	340.78535	9.78770	0.2079075	2.6847444414894
(501205)	18.0	13.22901	308.21908	29.40165	16.78852	0.2222786	2.5337106414894
(501206)	16.6	288.53301	220.85707	208.55674	13.86715	0.1038900	2.6513252414894
(501207)	17.3	299.96028	332.08468	43.75051	4.98485	0.0806227	2.8107451414894
(501208)	17.5	308.39745	2.46684	17.65466	12.93726	0.1585557	2.7403253414895
(501209)	17.1	223.27374	66.12904	35.53007	4.72342	0.0279948	2.7777104414895
(501210)	17.8	10.22307	282.73481	46.02679	3.94630	0.1115854	2.6242167414895
(501211)	17.5	342.44216	264.47974	94.79642	3.27811	0.2688647	2.6210390414895
(501212)	17.2	319.47008	328.94180	51.31612	8.79035	0.2626994	2.6757932414896
(501213)	17.1	313.07617	133.45938	253.27664	4.69045	0.2443632	2.7190273414896
(501214)	6.5	98.79475	54.78738	147.49522	14.21261	0.1659481	25.2635219414896
(501215)	17.1	49.52666	294.71741	27.84629	4.14229	0.1232606	2.5571455414896
(501216)	17.4	313.12680	80.02133	20.23493	28.03654	0.3669376	2.6144945414897
(501217)	18.2	261.41471	219.25260	88.12467	23.76621	0.0558927	1.8694452414897
(501218)	16.2	301.37226	141.29431	261.09869	16.23086	0.2552850	2.7607800414897
(501219)	17.3	357.36413	233.82000	123.64120	18.06166	0.2723267	2.5435002414898
(501220)	16.8	301.68564	34.56178	27.58258	7.94114	0.1894474	2.6431974414898
(501221)	16.1	242.08660	223.26511	239.01151	14.10889	0.0543393	2.7472419414898
(501222)	17.4	358.41844	224.39530	130.37066	8.62211	0.1072366	2.5954252414898
(501223)	17.2	282.29595	327.09491	79.21769	5.35657	0.0730237	2.7791323414899
(501224)	17.7	339.89501	65.14388	293.12311	11.74045	0.2845607	2.6383635414899
(501225)	17.0	301.54252	113.09496	310.44330	12.79081	0.2333865	2.6550267414899
(501226)	17.3	347.16850	354.02980	28.15238	14.79039	0.1695942	2.5618318414900
(501227)	17.1	324.44666	47.36478	3.82054	5.22871	0.2103134	2.5943689414900
(501228)	16.8	329.68098	297.63224	79.61149	6.24861	0.2105726	2.6698080414900
(501229)	16.8	0.96845	243.13744	125.65461	5.99787	0.2772681	2.5562874414900
(501230)	16.8	341.18886	72.29638	310.54438	12.93267	0.1216626	2.5929447414901
(501231)	17.5	316.92072	238.37318	169.62206	11.81351	0.1825349	2.6436858414901
(501232)	16.5	325.88328	269.61557	148.38508	10.42129	0.0589327	2.5526402414901
(501233)	17.1	1.99711	54.86642	299.88228	11.83162	0.2981563	2.5941808414901
(501234)	17.2	303.75479	169.43243	252.34447	8.46250	0.1915654	2.6929645414902
(501235)	17.6	297.48872	183.37675	249.05125	7.25005	0.2544302	2.7144508414902
(501236)	16.3	266.69361	107.45332	328.81391	8.56337	0.0990217	2.7964268414902
(501237)	17.3	315.85266	152.52064	237.84469	2.61836	0.1191750	2.7225800414903
(501238)	17.6	323.88726	210.50359	197.76021	3.71057	0.2190411	2.6381618414903
(501239)	16.8	315.36583	357.97695	51.20351	15.04188	0.2371766	2.6333444414903
(501240)	17.3	332.83461	206.12103	189.99174	6.61800	0.1092066	2.5922688414903
(501241)	17.0	310.12547	347.31724	73.57795	14.59382	0.2341124	2.6333886414904
(501242)	16.9	350.09533	220.79245	146.15454	19.33524	0.2987022	2.5879542414904
(501243)	21.8	114.48400	24.71291	156.58792	7.80189	0.3546677	1.0447942414904
(501244)	16.9	355.79080	143.16078	213.80407	12.07809	0.1457875	2.6410742414905
(501245)	17.0	305.91983	269.89387	112.26139	5.25548	0.1175816	2.8062229414905
(501246)	17.1	359.60918	164.63509	197.84812	8.59129	0.1750681	2.5705752414905
(501247)	17.4	323.28661	328.14050	79.56397	6.11668	0.2413073	2.6036189414905
(501248)	16.9	352.98343	327.27667	36.69548	31.25116	0.2302951	2.5699277414906
(501249)	17.5	6.04545	128.89614	220.78769	8.69644	0.2243996	2.5918452414906
(501250)	17.3	348.02508	182.29747	187.82719	6.99176	0.2968833	2.6151577414906
(501251)	17.3	320.89753	36.90572	30.32953	7.13491	0.3393255	2.6219201414907
(501252)	17.3	349.87191	240.08524	128.43251	5.10654	0.2672096	2.5919145414907
(501253)	17.0	290.48135	132.89436	312.16526	12.60350	0.2286494	2.6903759414907
(501254)	17.0	345.59529	8.62293	17.57055	14.38800	0.0699398	2.5666039414908
(501255)	17.3	351.14195	324.73219	17.81259	12.94907	0.3056150	2.6420048414908
(501256)	16.4	330.78166	66.72390	350.30118	27.79757	0.3175677	2.6025413414908
(501257)	17.6	4.56505	217.97081	128.88715	4.67124	0.2896169	2.5924577414908
(501258)	16.9	3.24706	262.59414	83.31882	13.74727	0.2805162	2.6236050414909
(501259)	17.0	310.21725	192.57924	231.22176	13.23641	0.1944729	2.7061648414909
(501260)	16.0	262.29011	250.30426	245.71238	21.15726	0.0576322	2.6008084414909
(501261)	17.1	358.38723	217.53759	161.30250	7.13935	0.1949851	2.5726758414910
(501262)	17.1	310.07816	18.44235	51.67411	14.65552	0.2282058	2.6416425414910
(501263)	17.3	314.65735	219.52343	205.96804	11.39968	0.1619968	2.6345970414910
(501264)	16.7	276.29519	241.98614	221.81381	21.17226	0.0513730	2.6845995414910
(501265)	16.6	358.90891	249.00753	115.92232	13.73663	0.2177806	2.6224764414910
(501266)	17.2	314.74405	322.68190	82.45050	9.10817	0.1303110	2.7535655414911
(501267)	16.9	29.85170	199.29885	127.01436	6.70781	0.0379741	2.8042710414911
(501268)	17.4	286.45623	284.78977	156.95749	5.58395	0.0559642	2.7651263414911
(501269)	16.2	340.72855	255.65992	85.68657	10.95006	0.0889468	2.9882820414912
(501270)	15.6	199.18987	34.71742	111.57450	11.17114	0.0720470	2.9911230414912
(501271)	17.0	306.52315	41.96469	13.03515	9.57840	0.2614237	2.6700586414912
(501272)	17.3	328.58165	164.30722	247.01480	3.08447	0.2037991	2.6138344414912
(501273)	17.2	317.03624	333.95649	64.60661	5.52832	0.0751810	2.7756237414913
(501274)	17.3	282.53352	204.55038	234.85013	3.26005	0.0813340	2.7679084414913
(501275)	16.7	324.72753	117.23404	271.65130	12.02254	0.2095312	2.7608860414913
(501276)	17.4	270.28100	52.72372	58.71706	4.43848	0.1893099	2.7461909414913
(501277)	15.8	78.64668	356.40102	258.28859	11.25787	0.0338557	2.9931062414914

(501278)	16.9	311.67951	268.24851	133.02155	10.04909	0.2075425	2.7555523414914
(501279)	15.9	281.71784	342.25389	64.45280	11.54017	0.0477334	3.0404293414914
(501280)	17.5	353.03253	329.39777	53.92172	5.25538	0.1781995	2.6433097414914
(501281)	16.5	8.65825	294.90801	59.39631	11.84122	0.1288902	2.6175642414915
(501282)	16.8	344.97925	290.14178	76.96415	7.40367	0.2277595	2.6524172414915
(501283)	16.7	287.07400	2.65112	80.52254	11.58976	0.1526448	2.6970273414915
(501284)	17.0	327.44585	187.96509	220.29987	13.61515	0.2247531	2.6165298414915
(501285)	17.0	284.77335	349.67870	91.12810	6.37235	0.1428493	2.7225452414916
(501286)	16.2	28.81880	22.79120	317.58973	6.22494	0.2510539	2.5497931414916
(501287)	16.6	243.47764	128.82672	314.53751	8.09800	0.0978147	2.9811906414916
(501288)	16.5	299.11467	291.45613	115.83531	10.14118	0.1366411	2.8506376414917
(501289)	17.3	345.57255	87.26893	292.14699	11.37826	0.2887295	2.6175646414917
(501290)	16.7	325.37662	148.06596	256.98936	8.78435	0.1415900	2.6723877414917
(501291)	16.9	348.45740	257.77317	137.29220	4.76457	0.1618280	2.5646611414917
(501292)	16.6	339.60450	319.61272	62.13582	14.49132	0.2714008	2.6372667414918
(501293)	17.4	298.07917	5.24529	90.17894	5.77549	0.2352266	2.6339599414918
(501294)	17.5	317.14076	255.67085	139.97565	4.11144	0.2023026	2.7392891414918
(501295)	17.0	272.38194	305.71624	124.76031	9.11366	0.1908535	2.9350744414918
(501296)	16.8	317.79448	219.56419	210.77419	11.14869	0.2254216	2.6093464414919
(501297)	17.2	342.56888	197.22545	193.71997	9.33200	0.2796340	2.6198672414919
(501298)	17.1	7.76609	220.86947	118.03500	11.35535	0.1002256	2.6611465414919
(501299)	16.3	24.54658	328.98056	19.74807	7.87316	0.2184982	2.5518274414920
(501300)	17.8	308.74655	136.59538	297.75613	1.22321	0.1893030	2.6036399414920
(501301)	16.8	247.43800	242.64662	235.60420	11.72398	0.0966603	2.7112075414920
(501302)	17.1	326.55986	171.08525	196.79374	3.84297	0.1797961	2.7564112414920
(501303)	17.2	316.52664	10.29138	42.30529	5.63766	0.0673235	2.6852797414921
(501304)	17.3	7.23255	332.92672	12.30501	0.35073	0.0814365	2.7558920414921
(501305)	17.7	314.31606	99.09720	297.76423	1.52330	0.2066875	2.7668424414921
(501306)	16.5	90.97712	206.90594	63.56587	10.91822	0.1607497	2.7086004414921
(501307)	17.5	291.98283	352.03398	112.40090	5.70118	0.1880931	2.6297036414922
(501308)	17.4	333.56936	330.35428	79.01503	5.74923	0.2974652	2.5863567414922
(501309)	17.2	12.55128	272.44412	80.02462	6.89317	0.0364025	2.7254985414922
(501310)	17.9	320.52162	281.37426	155.11535	4.90201	0.2888570	2.6064997414923
(501311)	17.2	326.29680	343.54484	76.18603	5.82523	0.2722768	2.6121321414923
(501312)	16.8	309.39084	182.54468	211.46007	17.86715	0.1911884	2.7587291414923
(501313)	16.4	279.23559	148.81383	259.89806	10.20979	0.1284208	2.9782224414923
(501314)	16.6	8.95537	305.59300	67.06653	9.63583	0.0429587	2.6175669414923
(501315)	17.5	331.34725	336.54059	67.13826	5.42701	0.2416247	2.5911478414924
(501316)	16.2	239.62388	90.40910	61.47124	22.60937	0.1073425	2.6446677414924
(501317)	16.8	305.72984	174.71145	256.91788	10.89228	0.1565468	2.6754363414924
(501318)	16.7	228.12764	198.36752	266.56194	4.45833	0.2018210	3.1161026414925
(501319)	16.6	316.11081	139.25764	256.59865	12.89481	0.2061110	2.7123345414925
(501320)	16.1	281.99477	337.66188	98.85245	10.50865	0.1378770	2.7524720414925
(501321)	17.7	319.59485	147.99611	258.01006	6.39701	0.3100521	2.6732160414926
(501322)	17.6	351.16609	251.72978	141.11162	4.60747	0.2198441	2.5759542414926
(501323)	17.3	309.73861	167.23788	281.10088	5.15496	0.2286960	2.6191820414926
(501324)	17.5	323.73665	267.30617	123.94900	5.73642	0.1718982	2.7429007414926
(501325)	16.6	341.37041	140.00435	251.06081	13.47188	0.1124639	2.6419486414927
(501326)	17.2	348.47506	258.44552	127.40627	3.42865	0.1264511	2.6396434414927
(501327)	16.4	320.03682	75.23911	288.50252	8.58705	0.0018348	2.9686509414927
(501328)	16.2	280.38280	102.72377	300.34531	7.76369	0.1081156	2.9660269414927
(501329)	16.5	259.06197	64.35818	80.60330	13.91844	0.2036139	2.6535313414928
(501330)	17.2	332.11814	141.51498	249.88138	6.96082	0.1285722	2.6782029414928
(501331)	17.3	3.05718	312.53694	42.74771	7.23683	0.0386189	2.7382414414928
(501332)	16.9	355.10942	316.07610	59.66520	6.99129	0.0852747	2.7024751414928
(501333)	17.7	321.87328	152.87834	261.41906	3.69404	0.2325227	2.6755469414929
(501334)	17.6	308.19715	35.71546	27.14486	6.08425	0.0630588	2.7410721414929
(501335)	16.8	276.70868	41.12376	67.05843	10.13049	0.1220455	2.7232259414929
(501336)	16.3	321.67723	39.58347	40.14967	29.34383	0.2148612	2.5838496414929
(501337)	16.3	300.43942	300.22574	105.92802	22.71672	0.2212928	2.9975805414930
(501338)	16.9	306.40838	266.63136	132.19314	13.07861	0.1565880	2.7233161414930
(501339)	16.3	266.94599	167.15422	280.38714	9.62918	0.0791874	3.0330985414930
(501340)	15.7	8.06971	38.68756	286.80248	15.87556	0.1989130	3.1158931414931
(501341)	16.6	325.10061	134.95056	260.78900	13.02120	0.0995717	2.7740569414931
(501342)	16.0	285.84580	127.83793	275.70798	11.14942	0.1178736	3.2015505414931
(501343)	16.8	322.29777	345.25169	107.38965	15.13619	0.2246362	2.6489410414931
(501344)	15.8	55.64217	173.54249	123.54895	14.29464	0.0302290	3.1756990414932
(501345)	16.8	340.76217	265.19659	143.60930	8.39760	0.2119935	2.7557252414932
(501346)	17.4	316.49924	343.26141	103.05751	5.50812	0.3240930	2.6940873414932
(501347)	15.8	3.36438	42.39181	272.22202	12.99303	0.0368808	3.1046465414933
(501348)	16.2	228.55715	189.76053	301.28391	12.22008	0.0581471	3.2154095414933
(501349)	17.2	0.25680	278.55783	89.20833	4.69094	0.2614338	2.6075946414933
(501350)	16.9	15.19962	278.03406	88.19468	12.50642	0.2194328	2.5703631414933
(501351)	14.9	149.58641	290.24806	260.00452	21.57437	0.2191803	3.1812538414934
(501352)	16.7	17.28504	209.44180	152.15086	3.23204	0.2408300	2.5666922414934
(501353)	17.6	346.74102	308.77072	78.97301	3.71728	0.2066258	2.6211358414934
(501354)	16.9	270.51258	10.83874	89.40752	7.20979	0.0605205	2.9223867414934
(501355)	16.7	328.67356	271.22565	135.62448	10.63250	0.2536771	2.8395268414935
(501356)	16.2	309.90345	102.61499	280.54612	4.04962	0.1586414	3.1168649414935
(501357)	17.3	350.94642	314.55824	76.07189	6.99152	0.1013216	2.6445921414935
(501358)	16.9	238.38738	26.79521	72.79269	13.17058	0.0849395	2.9961095414935
(501359)	16.8	167.58350	274.74353	264.19123	7.53593	0.0308541	2.9309946414935
(501360)	17.7	318.36542	350.91143	69.70939	6.53573	0.0771090	2.6894692414936
(501361)	16.6	278.87826	341.24075	131.33149	10.20647	0.0873524	2.8514713414936
(501362)	16.3	227.59410	5.44491	125.39080	18.54359	0.1632746	3.1443704414936
(501363)	16.9	271.49498	327.57866	147.87579	13.97339	0.0898465	2.5622522414936
(501364)	16.5	8.07988	118.00596	305.98828	16.77655	0.1533342	2.5654695414937
(501365)	17.3	345.80486	115.89073	278.02936	4.82813	0.0589104	2.6818600414937
(501366)	16.1	285.88687	87.70325	318.65923	11.70258	0.1403258	3.1513237414937
(501367)	17.0	318.14027	119.30442	306.73306	7.78145	0.2137700	2.7780902414938
(501368)	16.2	302.70264	292.24922	113.11486	11.61929	0.1417770	3.0979331414938
(501369)	16.2	244.45882	167.45866	305.13057	11.83901	0.1194037	3.1355770414938
(501370)	16.2	186.07738	79.73225	134.10849	13.40347	0.0356005	2.8641392414938
(501371)	15.8	165.82151	94.94208	91.72630	12.61770	0.0465827	3.0172697414939
(501372)	16.7	228.81154	35.58718	96.26254	7.00569	0.1340833	3.0910628414939
(501373)	16.1	213.60356	203.97490	300.87722	3.86175	0.1331830	3.1932483414939
(501374)	16.8	320.02206	138.52325	257.03640	9.12953	0.3107193	2.7484453414940
(501375)	17.1	321.02488	2.70678	91.73396	13.37533	0.1528662	2.6126992414940
(501376)	16.3	274.55182	329.69948	109.51288	13.00425	0.0244177	3.0573357414940
(501377)	16.7	351.33986	297.01412	78.55456	7.29653	0.0760717	2.7560586414940
(501378)	16.2	180.07354	90.66196	73.76032	11.51239	0.0182834	3.0996888414940
(501379)	15.9	241.67176	141.48779	316.30223	9.66346	0.0524492	3.1650653414941
(501380)	17.2	270.25168	77.52899	37.32385	3.82169	0.0487076	2.8209825414941
(501381)	15.6	291.15311	322.60363	100.75347	10.63356	0.0838982	3.1618433414941

(501382)	16.0	287.69301	121.46344	289.32742	9.34757	0.0944862	3.1452166414942
(501383)	16.2	178.74597	186.64449	354.04589	10.14258	0.1567495	3.1589915414942
(501384)	17.0	355.06461	22.15654	18.38820	6.04561	0.3248033	2.5765553414942
(501385)	16.3	294.51856	321.06372	122.37885	4.97503	0.0968801	3.0015177414942
(501386)	15.9	282.74746	317.03932	127.66145	13.78162	0.0894214	3.0981614414943
(501387)	16.4	345.52114	249.70910	132.25054	11.10809	0.1318730	3.0194830414943
(501388)	16.4	331.42473	307.33118	76.76353	8.29324	0.1309332	2.9623112414943
(501389)	15.9	240.47831	159.40202	302.86549	8.67634	0.1901381	3.1971003414943
(501390)	16.3	299.97183	279.58936	132.22015	11.77812	0.0796068	3.1054438414944
(501391)	16.4	265.42642	315.83354	133.04361	9.92736	0.0733197	3.1035294414944
(501392)	16.8	348.73490	255.93557	133.63032	12.73796	0.0694732	2.9009080414944
(501393)	16.9	290.74823	335.56426	142.84188	8.27411	0.1149143	2.7900618414944
(501394)	15.9	238.96298	167.76810	298.58445	8.58009	0.0396033	3.1168394414945
(501395)	15.4	40.92823	28.66824	281.34892	9.32702	0.1045759	3.1523984414945
(501396)	16.9	14.98593	307.05426	89.59608	4.35350	0.1151507	2.5861667414945
(501397)	16.4	346.16534	276.03981	124.84873	13.40872	0.2707261	2.6803308414946
(501398)	16.3	267.98351	312.17734	136.40256	10.65535	0.0951229	3.1708858414946
(501399)	16.8	235.68362	340.13260	126.21159	10.18659	0.1342806	2.9969187414946
(501400)	16.6	325.58922	306.02735	88.94402	7.78407	0.0526253	2.7823453414946
(501401)	16.6	212.11617	30.55091	104.83696	10.19331	0.0288693	3.1919449414947
(501402)	15.5	136.52957	118.68798	101.71151	10.88432	0.0252627	3.1369770414947
(501403)	17.2	289.31951	303.44399	110.13336	5.72255	0.1839185	3.0650864414947
(501404)	16.3	128.63158	122.58700	111.78188	12.21170	0.0236965	3.1017200414947
(501405)	15.6	271.51540	345.34186	112.23697	12.35719	0.0727702	3.0835956414948
(501406)	16.9	299.87214	268.92155	129.81059	5.93192	0.1708433	3.0587925414948
(501407)	16.6	291.26761	76.39557	348.53903	9.22134	0.0742933	2.9847944414948
(501408)	15.8	2.14094	253.13956	115.46386	13.87692	0.1389013	2.8504677414948
(501409)	16.6	317.57692	100.05203	340.81937	10.67594	0.2265347	2.6936851414949
(501410)	16.5	52.64344	195.32704	111.24896	6.87481	0.0611333	3.0788405414949
(501411)	16.4	308.79003	315.08050	117.16877	12.74536	0.0974684	2.9464530414949
(501412)	15.8	273.57021	315.66571	112.07870	28.44879	0.1269084	3.0985563414950
(501413)	16.6	273.95713	347.42670	99.54797	6.94872	0.1380081	3.1026903414950
(501414)	16.5	347.22263	296.54841	115.15902	7.29093	0.0777240	2.8050192414950
(501415)	16.3	257.95542	296.92085	145.60243	12.12516	0.0754151	3.0191155414950
(501416)	17.2	294.62258	34.48765	49.23695	7.26645	0.0772077	2.8550924414951
(501417)	17.0	1.73022	324.35407	77.82099	12.55885	0.0429279	2.6815213414951
(501418)	16.2	318.00314	29.68759	346.02935	8.32640	0.0526693	3.1903604414951
(501419)	16.2	249.19639	115.59681	320.81403	15.41199	0.0766807	3.2911746414951
(501420)	16.1	219.53209	155.80311	339.95008	9.07028	0.0979451	3.0950450414952
(501421)	15.4	55.17433	209.13547	81.67245	19.47634	0.1970833	3.1264604414952
(501422)	17.2	315.32309	61.20595	335.88708	10.66223	0.1314607	2.9607671414952
(501423)	16.1	292.16890	95.04659	310.05365	16.96142	0.0969961	3.0819791414952
(501424)	17.6	329.59182	108.70171	327.99291	2.92532	0.2697877	2.6884929414953
(501425)	16.0	295.02095	289.80447	116.89175	9.06415	0.1318991	3.1589523414953
(501426)	16.8	354.65614	98.07457	270.28729	5.60688	0.1416780	2.7407074414953
(501427)	16.4	257.36427	112.17404	324.51290	11.57597	0.1485454	3.1575821414953
(501428)	15.9	255.54355	134.28270	312.94621	22.50449	0.3213534	3.1668564414954
(501429)	16.2	219.70068	346.24649	125.66833	18.62355	0.1645805	3.1264233414954
(501430)	17.1	351.60993	33.00132	357.54645	4.68379	0.2363332	2.5958823414954
(501431)	16.6	309.68081	356.15883	81.11948	10.21830	0.2360127	2.6717709414954
(501432)	15.7	292.89721	306.50067	80.37994	10.55489	0.1229324	3.1005918414955
(501433)	16.3	146.75153	116.80563	91.76920	10.88590	0.0515032	3.1617702414955
(501434)	17.2	349.09787	317.79798	76.59125	6.95151	0.2039018	2.7343958414955
(501435)	16.2	300.12061	303.77563	95.43129	10.32296	0.0913324	3.1694910414955
(501436)	15.7	249.45108	156.40809	311.69749	22.07645	0.1517952	3.0723254414956
(501437)	17.1	237.38032	38.38213	89.05674	1.93376	0.1347129	3.0665812414956
(501438)	16.4	220.09656	202.64867	300.23580	10.15157	0.0877952	3.1878742414956
(501439)	16.4	314.46149	295.47542	71.29766	12.94552	0.0929408	3.0086278414956
(501440)	16.0	299.78984	120.23729	284.76683	19.79937	0.0357947	3.1171499414957
(501441)	15.7	8.16289	219.56544	124.78513	10.75512	0.0754281	3.1167176414957
(501442)	16.8	297.34249	45.89208	355.33365	5.64567	0.2101758	3.0089841414957
(501443)	15.9	281.51941	294.96624	134.44427	27.46322	0.1907397	3.0930867414958
(501444)	15.3	230.22658	206.08645	282.71899	14.18108	0.1192548	3.1796507414958
(501445)	15.8	257.71857	323.50821	142.82203	18.32611	0.0808164	3.0912450414958
(501446)	17.3	301.80989	274.79485	224.68635	3.82344	0.2133050	2.5959126414958
(501447)	16.3	209.26838	221.82491	253.84655	8.40561	0.0936459	3.1041571414959
(501448)	16.8	278.99311	325.79968	113.48516	11.05729	0.0843953	3.0137572414959
(501449)	16.3	271.86619	162.60885	261.51150	9.80978	0.0986154	3.0095561414959
(501450)	17.0	6.56800	98.90246	255.04702	11.87783	0.2472766	2.6797492414959
(501451)	16.8	243.51434	329.29334	122.78515	3.50332	0.0801984	3.2084156414960
(501452)	16.1	248.09885	13.81351	106.59604	14.98495	0.2014383	3.0643339414960
(501453)	15.9	233.92013	337.11007	126.65832	13.35961	0.0209114	3.3674994414960
(501454)	16.8	293.21809	122.46345	299.20504	7.99438	0.1971719	3.0585737414960
(501455)	16.0	301.23665	290.14079	81.75930	10.79838	0.1207440	3.0785979414961
(501456)	15.7	245.91890	326.05653	124.75842	25.00514	0.1943206	3.1945058414961
(501457)	16.9	313.59938	29.58848	60.14840	10.04399	0.3249446	2.7174657414961
(501458)	16.5	269.06559	322.14224	124.13825	11.63606	0.0956734	3.1176231414961
(501459)	16.9	214.98807	116.41335	29.82296	1.62314	0.1086465	3.1209410414962
(501460)	16.3	159.16746	90.14635	115.55803	10.49751	0.0299388	3.1127545414962
(501461)	16.6	214.81014	42.22125	114.61814	10.54003	0.0929004	3.0360595414962
(501462)	16.8	338.97645	258.91955	131.36942	3.65764	0.1104055	3.0183143414962
(501463)	15.9	289.95436	11.89381	23.10500	16.56641	0.2259606	3.1804018414963
(501464)	16.2	184.10917	238.15866	313.09105	8.48090	0.0245026	3.0577875414963
(501465)	16.4	128.70782	180.87265	67.43142	8.69345	0.0165930	2.8957047414963
(501466)	17.1	331.89449	334.59299	77.33154	6.10370	0.1603945	2.7718007414963
(501467)	15.6	18.99929	31.37659	307.07981	26.16244	0.1665681	3.1894464414964
(501468)	16.1	244.18247	179.91830	298.04745	7.94637	0.0577470	3.1420707414964
(501469)	16.1	299.47333	112.81802	310.66204	7.86264	0.1003235	3.0939157414964
(501470)	16.1	270.92296	323.57721	109.36058	12.40347	0.1744894	3.1461984414964
(501471)	16.5	301.53011	257.99053	162.68326	11.02360	0.0961931	3.1493841414965
(501472)	15.7	307.28658	288.52723	127.20853	10.61873	0.0761868	3.1399499414965
(501473)	16.1	288.90037	133.66274	328.51385	7.91736	0.1118363	3.0368994414965
(501474)	16.1	301.69726	109.62504	311.99872	6.17648	0.1092813	3.1055002414965
(501475)	16.2	246.74593	339.54830	159.89917	19.28601	0.1357711	3.1315940414966
(501476)	15.8	226.37428	160.00706	320.27984	15.18011	0.0480293	3.1817918414966
(501477)	16.4	319.92426	84.70097	320.07979	8.38754	0.0917544	3.1272308414966
(501478)	16.0	315.92153	115.60189	311.30305	10.55061	0.0994374	2.9820557414966
(501479)	17.7	271.89994	240.93536	111.34875	23.70231	0.0978950	1.9146221414967
(501480)	15.7	283.80417	243.04701	194.82255	13.41982	0.0518776	3.1431112414967
(501481)	16.7	305.84590	260.00190	161.11599	11.47132	0.0731934	2.9738555414967
(501482)	16.1	298.16207	334.50738	118.87592	11.01869	0.0620102	3.0203656414968
(501483)	15.4	237.85997	162.32838	334.32806	27.95782	0.1361011	3.1667692414968
(501484)	17.0	285.33388	272.80004	157.60065	3.44978	0.1975610	3.0992573414968
(501485)	16.2	333.33383	79.44075	320.70596	8.71490	0.0881731	3.0593366414969

(501486)	16.7	285.14129	68.55840	5.51156	4.68909	0.1539612	3.0733041414969
(501487)	16.1	166.14908	93.60959	114.34904	12.94308	0.0321398	3.1300680414969
(501488)	16.4	299.95229	66.10377	358.48665	7.78632	0.0718212	3.1062483414969
(501489)	16.4	217.00606	66.35668	86.94704	6.60376	0.0301291	3.1345371414969
(501490)	16.5	263.39864	142.66075	314.31781	12.84162	0.1796055	3.1673567414970
(501491)	16.3	277.01861	316.41030	140.97114	6.27980	0.1204292	3.1119411414970
(501492)	16.2	293.94028	287.02886	151.63726	7.91759	0.1628051	3.0334325414970
(501493)	17.4	315.34121	303.60540	156.01439	4.04523	0.2710285	2.6963902414971
(501494)	16.4	255.11325	325.39233	149.66596	11.22812	0.1984241	3.1317831414971
(501495)	16.2	245.93361	175.89071	302.75730	10.29345	0.0794496	3.0967275414971
(501496)	16.0	280.03305	303.29479	155.73418	17.49287	0.0893641	3.0862299414971
(501497)	16.2	292.43627	93.38803	338.98197	15.52634	0.2630315	3.1149618414972
(501498)	15.9	353.62359	54.45024	319.79099	13.64120	0.1155288	3.0740844414972
(501499)	16.6	242.01584	334.32799	155.61741	6.10596	0.0957109	3.1309520414972
(501500)	16.9	290.25747	289.30336	173.82133	10.07400	0.0896777	2.9758586414972
(501501)	15.5	189.48108	206.50451	330.82049	27.09763	0.1512766	3.2011012414973
(501502)	17.0	231.01690	144.96213	350.65236	0.53802	0.1126172	3.1825889414973
(501503)	16.4	268.31243	119.66034	324.37954	15.72158	0.2407804	3.0829988414973
(501504)	16.5	265.36089	325.38730	130.30637	10.45565	0.0939844	3.1322865414973
(501505)	16.5	284.39652	319.88158	149.96823	9.86620	0.0662715	3.1232471414974
(501506)	16.3	329.56662	277.57564	159.69138	16.01523	0.0764777	3.0688834414974
(501507)	16.1	338.17309	305.37258	129.62002	10.04747	0.1285138	2.9732702414974
(501508)	16.5	324.42654	273.13035	155.62193	11.64079	0.1566741	3.0395940414974
(501509)	16.4	359.28008	257.09601	142.82959	9.29309	0.0790667	3.0818483414975
(501510)	15.8	299.83465	85.47408	344.33430	18.42358	0.1618239	3.1572542414975
(501511)	16.2	329.97210	76.91898	351.67229	9.58647	0.0582724	3.1098830414975
(501512)	16.3	304.77093	85.88128	1.58331	8.39737	0.0694938	3.1511293414975
(501513)	16.8	343.66100	282.89404	159.20735	9.62058	0.2443558	2.7174859414976
(501514)	16.0	328.23825	92.70496	324.76056	8.00826	0.0986269	3.1070058414976
(501515)	16.2	302.20573	112.51155	335.29470	9.89001	0.0864881	3.0822635414976
(501516)	16.9	277.22355	304.35112	178.63963	8.88440	0.1298946	2.9926064414976
(501517)	17.0	319.56022	271.30155	170.62740	8.35818	0.2079297	2.8825118414977
(501518)	16.7	7.70168	236.70262	159.66525	10.77209	0.0674396	3.0002534414977
(501519)	16.1	65.06331	184.83317	147.88138	10.06770	0.0805229	3.1617307414977
(501520)	16.9	265.24278	102.67059	35.73284	3.42279	0.2134429	2.9720334414977
(501521)	16.3	232.87483	338.21768	160.80025	13.74727	0.1266188	3.1972420414978
(501522)	16.7	288.10445	342.75609	106.64560	4.21195	0.1786299	3.0876473414978
(501523)	16.2	261.53820	338.74907	163.97597	10.79856	0.0293187	3.0725002414978
(501524)	16.2	347.89940	274.31905	152.27459	11.47665	0.1224855	2.9360628414978
(501525)	15.6	193.74830	198.70311	352.78079	10.77686	0.0268917	3.1823428414979
(501526)	15.7	236.03349	326.67938	175.60471	24.13429	0.0860084	3.2306301414979
(501527)	16.5	323.41339	292.45711	126.23520	12.23946	0.1246478	3.1870819414979
(501528)	16.2	356.85389	257.86546	147.50902	10.36446	0.1399669	2.9981745414980
(501529)	16.3	288.88472	275.75548	171.37073	13.80224	0.2223703	3.1631596414980
(501530)	16.3	285.53634	87.54792	5.17480	15.43928	0.2327309	3.1285140414980
(501531)	15.7	278.22541	263.46576	172.96164	18.22241	0.1451860	3.1982668414980
(501532)	16.4	283.07990	268.01932	206.80862	9.44441	0.1446820	3.0268523414981
(501533)	16.6	271.90673	335.20819	172.35823	5.20821	0.1423856	3.0767782414981
(501534)	15.6	232.92649	114.48893	54.63019	18.13207	0.1558370	3.2500052414981
(501535)	16.1	246.63697	111.87036	59.04851	16.99508	0.1480863	3.1800517414982
(501536)	16.7	314.37042	283.33748	169.77162	10.41345	0.2381110	3.1219704414982
(501537)	16.0	317.78578	24.64002	83.65326	11.81832	0.0540037	3.1830627414982
(501538)	15.7	131.68994	276.65082	56.97404	23.12918	0.0904725	3.0635029414983
(501539)	16.1	239.97054	174.45599	71.39371	15.45558	0.0591782	2.7924012414983
(501540)	17.3	290.70005	255.58581	116.24330	24.35722	0.1259061	1.9557877414983
(501541)	17.4	255.49073	121.28636	110.57368	5.22004	0.0417657	2.7602988414984
(501542)	18.1	298.77958	302.19247	103.57249	23.01210	0.0920216	1.8769925414984
(501543)	18.2	97.27967	90.70515	132.99945	23.88024	0.0470526	1.8938288414984
(501544)	18.1	238.50408	271.28096	191.36449	22.09868	0.0334436	1.8761417414984
(501545)	16.0	147.93869	239.29622	79.29176	11.18041	0.0967109	3.0460854414985
(501546)	5.5	339.79093	98.09525	261.48227	18.68145	0.2713923	42.9316415414985
(501547)	18.8	45.09542	136.58934	180.59966	22.07374	0.0064784	1.8142687414985
(501548)	17.2	326.57318	293.73547	248.53116	3.37068	0.1332395	2.6196300414985
(501549)	18.0	325.05761	94.44338	271.59479	18.11736	0.0967896	1.9276033414986
(501550)	18.2	356.30162	244.69021	94.00457	24.05990	0.0424771	1.9034659414986
(501551)	18.5	269.48975	266.10893	176.49174	20.04603	0.1059144	1.8572298414986
(501552)	18.3	18.19048	181.17523	137.80396	24.86100	0.0948855	1.8926362414986
(501553)	18.0	315.39357	234.89043	110.26723	7.83613	0.2241998	2.2151956414987
(501554)	18.3	185.80762	225.38952	309.90056	18.59356	0.0859589	1.8778292414987
(501555)	18.4	18.84660	173.05081	170.08660	22.56079	0.0620425	1.8526055414987
(501556)	18.2	0.74062	198.37033	152.33793	23.83824	0.1020617	1.8917868414988
(501557)	17.9	255.91353	294.38443	138.78631	24.63095	0.0461258	1.9166740414988
(501558)	18.5	252.79473	281.72507	169.50909	23.13531	0.0696173	1.8881444414988
(501559)	17.8	240.36816	332.34537	123.28211	24.81792	0.0574407	1.9529019414988
(501560)	17.8	280.85424	240.09941	145.03104	4.35535	0.2190728	2.2653448414989
(501561)	18.1	353.06890	157.30416	136.88666	7.76617	0.1083115	2.2364961414989
(501562)	18.3	236.10711	166.28951	316.64048	17.95403	0.0998086	1.9112560414989
(501563)	18.1	272.35677	312.05487	144.88809	22.79496	0.0615223	1.9229149414990
(501564)	18.2	43.36575	97.43246	133.42344	6.70359	0.1211492	2.1932090414990
(501565)	17.8	99.27268	153.29082	120.42440	23.71687	0.0577505	1.9200611414990
(501566)	18.1	55.01532	356.75084	301.14600	17.26665	0.0615603	1.9351379414990
(501567)	21.0	35.64364	325.57367	297.66703	2.16899	0.4198502	2.0503690414991
(501568)	17.7	151.53662	257.81017	299.15027	17.45697	0.0784798	1.9358996414991
(501569)	18.6	26.43362	0.82599	309.10308	14.72273	0.0582337	2.0213282414991
(501570)	17.4	298.39579	253.23911	112.42229	6.47751	0.2608631	2.3781878414992
(501571)	17.4	79.09272	129.08382	151.60527	23.68758	0.0555441	1.9912975414992
(501572)	17.9	62.77445	115.83122	90.08031	7.27091	0.0457089	2.2860475414992
(501573)	18.1	41.40027	110.45096	88.09928	3.14151	0.1446696	2.3694832414993
(501574)	18.3	351.08094	187.32247	147.78299	6.66167	0.1904815	2.1616369414993
(501575)	19.7	356.66043	78.26007	287.70817	1.44075	0.2182247	2.0520074414993
(501576)	18.3	2.32981	113.58497	199.08450	0.79918	0.1622812	2.2008253414993
(501577)	18.0	359.87492	148.90532	135.62176	3.96586	0.1894858	2.3120993414994
(501578)	18.1	334.01197	252.18971	98.20114	4.18940	0.1650279	2.2049058414994
(501579)	18.4	328.69492	280.36581	128.38322	22.34901	0.0834983	1.9066543414994
(501580)	18.6	192.10844	184.34514	330.79885	17.21305	0.0657843	1.9727115414995
(501581)	6.1	351.02211	10.21466	8.08061	20.76811	0.2457489	46.4355412414995
(501582)	18.5	357.46954	160.66249	138.22548	5.87821	0.2137045	2.1853520414995
(501583)	18.2	251.24350	308.63247	164.76167	23.05712	0.0876732	1.9553158414995
(501584)	17.9	8.09087	12.93603	270.16642	5.05863	0.1860483	2.2259880414996
(501585)	11.2	342.28186	247.84673	118.40984	37.22366	0.5046999	9.6173538414996
(501586)	19.2	30.35275	330.90963	313.26837	1.05519	0.1512761	2.1324081414996
(501587)	17.9	12.25448	294.38848	333.85477	2.34721	0.1385642	2.2898168414996
(501588)	17.3	175.94566	281.30619	161.20326	5.92610	0.1843940	2.6580926414997
(501589)	19.3	354.08540	223.37463	112.31643	2.18086	0.1294579	2.1382187414997

(501590)	17.0	190.53921	253.41923	161.03231	22.24844	0.0624567	2.6615036414997
(501591)	18.1	318.19696	93.17530	328.12499	18.22139	0.1381251	1.9859098414997
(501592)	17.4	280.15601	228.01402	156.87844	23.33974	0.1799287	2.2703822414998
(501593)	17.2	173.12540	273.95345	187.79821	6.65434	0.1694004	2.4585997414998
(501594)	18.4	168.99996	199.31274	312.60386	4.77253	0.0302361	2.1630097414998
(501595)	19.5	8.76364	26.23915	289.17441	0.55132	0.1786475	2.1178190414999
(501596)	19.0	283.98903	292.82718	124.49770	2.59060	0.2073649	2.1911442414999
(501597)	18.7	317.44115	208.82894	152.29455	5.57046	0.0976120	2.1990191414999
(501598)	18.6	27.06397	176.42607	105.61928	2.41963	0.1436913	2.1753409414999
(501599)	18.0	3.54329	145.56694	127.28711	4.95711	0.1710811	2.3244457415000
(501600)	18.1	16.35877	179.45440	112.51148	4.27866	0.1645612	2.1844548415000
(501601)	18.5	27.09003	287.89653	356.33372	4.65919	0.1833267	2.1692835415000
(501602)	18.0	336.99327	186.97574	121.07832	2.14592	0.1946814	2.3362027415000
(501603)	18.3	343.87125	326.56873	31.99110	5.21533	0.1484114	2.1634296415001
(501604)	17.9	303.86860	233.23967	133.86744	4.49807	0.2428870	2.2798758415001
(501605)	17.4	182.62257	102.57167	18.61920	5.81241	0.0991482	2.3887694415001
(501606)	18.7	336.30900	216.16222	139.24685	5.78652	0.2346529	2.1632549415001
(501607)	18.3	328.10629	145.84981	182.09656	4.59227	0.1916039	2.2795307415002
(501608)	18.1	244.65625	130.26850	358.74388	20.18194	0.0617486	1.9323170415002
(501609)	17.9	357.51454	39.93722	251.67782	5.47722	0.2330522	2.2535506415002
(501610)	17.1	333.82539	77.38797	196.05704	14.28980	0.0638164	2.6126560415003
(501611)	17.5	199.45691	15.53547	110.43883	6.04140	0.0631683	2.4445794415003
(501612)	17.8	301.98956	186.66389	226.81595	6.04380	0.3458671	2.2464138415003
(501613)	18.1	333.01997	219.37171	204.61125	19.58324	0.0827180	1.9187838415004
(501614)	17.9	309.59612	197.95266	152.94368	7.74359	0.1362299	2.3010071415004
(501615)	18.7	285.82796	272.70634	142.22167	3.79413	0.1313442	2.1756576415004
(501616)	18.1	349.88104	243.74165	40.22155	6.07145	0.0940382	2.3492156415005
(501617)	18.5	84.43428	112.23548	114.71606	6.07080	0.0727990	2.2126105415005
(501618)	18.3	23.45226	321.73646	330.89818	4.75042	0.1739573	2.1750562415005
(501619)	19.3	29.40503	333.08669	340.97065	2.49016	0.0553167	2.1176902415005
(501620)	17.8	219.05157	235.98997	284.10706	17.06177	0.0579488	1.9830644415006
(501621)	18.5	40.15822	139.53501	133.45390	3.78164	0.2437205	2.1662123415006
(501622)	18.1	334.16702	104.90715	217.56862	4.34169	0.1917267	2.2796163415006
(501623)	17.8	56.46669	247.14594	2.94278	5.95067	0.1107092	2.3051406415006
(501624)	18.7	289.13494	192.83121	217.58624	4.18720	0.1339732	2.2368197415007
(501625)	18.1	8.75419	151.63371	156.44798	5.05703	0.1836609	2.2206805415007
(501626)	18.7	184.04640	20.41820	134.64269	1.92466	0.0619528	2.1508353415007
(501627)	18.0	2.59124	319.12844	355.36661	6.08833	0.1809558	2.2018749415007
(501628)	18.4	9.84835	158.61078	171.81689	4.59645	0.1515587	2.2246689415008
(501629)	17.2	215.89586	331.23004	130.49147	6.27496	0.1615510	2.5394881415008
(501630)	18.1	354.54275	196.21205	150.10388	5.10059	0.1662106	2.2336215415008
(501631)	17.3	335.40948	227.12621	129.83677	6.39311	0.1379126	2.2937916415009
(501632)	17.9	336.12272	243.98412	114.16561	7.14772	0.1537632	2.2690868415009
(501633)	16.8	264.84401	245.29148	130.07474	7.25318	0.0385572	2.6996003415009
(501634)	17.8	306.22506	284.75589	69.59600	16.32922	0.2502123	2.4350938415010
(501635)	17.0	250.83296	264.91978	125.87499	7.89943	0.1076585	2.7085940415010
(501636)	18.0	1.05479	192.09439	143.38102	5.42783	0.1734159	2.2554450415010
(501637)	17.6	218.60520	351.88770	121.05963	8.64683	0.1417102	2.4884512415011
(501638)	17.9	349.03701	193.56257	164.13477	7.31355	0.2318786	2.2131416415011
(501639)	17.2	314.90534	269.02969	121.47232	7.29813	0.1222495	2.2995584415011
(501640)	17.3	37.13883	221.33991	107.57957	9.03919	0.0738787	2.1885810415012
(501641)	16.5	253.60499	246.44004	143.75428	7.23289	0.0756524	2.7283570415012
(501642)	17.6	21.80067	198.84324	124.20212	7.17799	0.1971351	2.2305073415012
(501643)	17.9	313.91397	217.40540	188.38721	5.93723	0.0311241	2.2105344415013
(501644)	17.7	271.47174	304.75343	123.82700	7.33034	0.0875249	2.3712936415013
(501645)	17.8	334.23483	234.96055	116.33537	7.91493	0.1554728	2.2513720415013
(501646)	18.3	359.94198	291.07321	40.27026	8.55954	0.2663619	2.1731198415014
(501647)	22.2	135.76218	277.13984	286.48004	4.54761	0.3311385	0.9776232415014
(501648)	17.4	11.96871	172.83555	101.47722	3.35906	0.1879464	2.3757226415014
(501649)	17.4	217.36665	347.51376	129.84071	4.26913	0.0929673	2.2833608415015
(501650)	18.9	35.84530	101.77814	182.84415	0.57623	0.1546154	2.1563313415015
(501651)	17.4	180.07826	338.77992	171.91116	6.11695	0.0322970	2.3105930415015
(501652)	17.6	351.04857	339.70517	33.93004	3.93203	0.1878542	2.1380676415016
(501653)	18.5	247.80886	253.89856	192.97710	3.52419	0.1843905	2.2596269415016
(501654)	17.4	234.95578	235.71348	241.56561	5.55415	0.0982161	2.2399297415016
(501655)	17.9	235.83108	75.44918	3.65700	6.07142	0.1055201	2.4282475415017
(501656)	18.6	324.44557	177.40995	204.69794	6.96379	0.1866679	2.1682716415017
(501657)	18.8	5.32915	312.26857	10.57921	4.57240	0.1983338	2.1839804415017
(501658)	18.3	341.83322	74.90410	234.72922	1.54594	0.1872705	2.3373267415018
(501659)	17.5	79.62776	103.14442	125.43738	7.06795	0.0915182	2.3431996415018
(501660)	18.4	16.82132	123.69170	180.87859	7.79820	0.2018393	2.1974790415018
(501661)	18.2	242.47435	300.71305	145.10737	3.30107	0.1380821	2.3477206415018
(501662)	18.5	10.31062	170.65954	169.29866	5.42832	0.1596270	2.1363469415019
(501663)	18.5	23.96607	187.33246	124.13508	3.37963	0.1927081	2.1534897415019
(501664)	18.1	359.84889	210.61249	110.20930	3.89397	0.2331699	2.2234232415019
(501665)	19.0	352.03006	66.76138	281.21318	0.57104	0.2468148	2.1408957415020
(501666)	18.6	290.85920	274.37724	130.86807	4.29092	0.1162546	2.2782955415020
(501667)	18.2	283.55668	11.41930	46.25209	5.07548	0.1559305	2.2433752415020
(501668)	17.7	226.62963	89.03663	37.74432	7.65299	0.0895430	2.2359331415021
(501669)	17.8	232.47972	229.14396	226.31287	6.29886	0.1449091	2.3583067415021
(501670)	18.4	278.61727	213.60276	227.87902	4.29606	0.2000637	2.2053000415021
(501671)	17.8	249.51665	40.30405	33.55817	3.57117	0.1576630	2.3663049415022
(501672)	17.5	240.16858	264.24804	180.62483	6.06178	0.0877182	2.3611770415022
(501673)	17.8	134.21782	157.94175	51.07922	7.26592	0.0371058	2.2237001415022
(501674)	18.6	344.32043	296.26667	72.28714	4.43900	0.1778142	2.1523498415023
(501675)	17.6	242.71853	28.34336	53.39078	2.27125	0.1492481	2.3940303415023
(501676)	18.2	28.67496	142.53553	204.66294	20.94971	0.0930121	1.9889854415023
(501677)	18.2	311.25453	337.61799	55.59931	2.90350	0.1134558	2.2296771415024
(501678)	18.8	309.16064	3.54548	28.15018	0.67028	0.2328368	2.2364389415024
(501679)	17.9	277.95453	324.87539	91.67981	1.68462	0.2010532	2.3408415415024
(501680)	17.4	170.49674	310.00771	219.15371	6.03702	0.0644330	2.2845340415025
(501681)	18.7	305.14458	86.21078	309.91777	1.29129	0.2300561	2.2452645415025
(501682)	17.6	214.16313	86.23121	18.70757	6.21677	0.0673851	2.4042403415025
(501683)	17.8	308.06316	200.32582	188.87115	6.18937	0.1162943	2.3099563415026
(501684)	18.5	299.35124	206.68971	188.49010	6.42736	0.1421495	2.3269251415026
(501685)	18.0	319.50127	226.59026	155.43534	4.76599	0.1343498	2.2800950415026
(501686)	16.8	242.95123	164.29255	229.33437	15.49891	0.0420974	2.6418187415026
(501687)	18.7	289.06542	188.01055	221.59945	3.60417	0.1103621	2.2551547415027
(501688)	17.8	349.65087	298.68685	43.99177	5.37720	0.1788026	2.1691422415027
(501689)	18.2	331.58723	325.58950	68.83806	4.20001	0.0779884	2.1603913415027
(501690)	17.9	261.19573	279.92305	166.71738	5.24530	0.1151719	2.2977568415028
(501691)	17.8	15.15477	233.38828	79.20715	7.74343	0.2518340	2.2158908415028
(501692)	17.8	294.56581	282.90206	129.93508	3.26870	0.2530545	2.3147315415028
(501693)	18.3	297.56687	229.98364	175.52544	5.45564	0.0903870	2.3037580415029

(501694)	18.0	329.76524	213.62763	169.21868	4.45616	0.1619812	2.2115799415029
(501695)	17.1	53.60647	166.37141	96.55262	6.81078	0.2144640	2.3792649415030
(501696)	18.3	347.13250	239.80685	102.20524	3.54029	0.2164469	2.2811625415030
(501697)	18.4	322.89502	299.63039	91.45800	5.21772	0.1625233	2.2226572415030
(501698)	18.2	312.94963	253.18486	139.90833	2.48247	0.1252182	2.2793749415030
(501699)	16.7	186.03482	215.75891	230.72145	18.01042	0.1314118	2.8353535415031
(501700)	18.5	333.37017	264.45812	109.66700	4.54090	0.1968724	2.2212689415031
(501701)	18.3	264.58391	171.83790	259.76514	6.27043	0.0872991	2.2967052415032
(501702)	17.9	223.55106	217.45965	273.19183	4.03070	0.1170184	2.2439054415032
(501703)	17.8	21.17074	301.36822	353.84798	4.75310	0.1701785	2.2916010415032
(501704)	18.0	236.35526	87.00916	16.25811	7.47706	0.0560545	2.3061632415032
(501705)	17.5	292.94422	120.12558	234.91814	1.38875	0.1089455	2.5262151415033
(501706)	17.9	198.87128	53.40945	89.68406	7.07297	0.0418074	2.3605154415033
(501707)	16.6	300.07061	212.13067	122.00775	6.78502	0.0495109	2.7700384415033
(501708)	17.8	10.45180	256.89129	70.47814	7.76625	0.1364773	2.2831651415033
(501709)	17.0	274.30935	187.45089	184.86398	6.60449	0.0807273	2.5778655415034
(501710)	18.3	353.54436	234.94057	113.24960	4.59233	0.2144617	2.1859273415034
(501711)	17.9	341.86258	307.53656	67.49347	7.07535	0.1219570	2.2173488415034
(501712)	18.0	285.23862	289.64278	128.31673	4.21610	0.0963786	2.3166994415035
(501713)	17.7	353.59045	283.59889	44.59515	12.41829	0.2144899	2.3084969415035
(501714)	17.5	153.01304	77.70694	88.49237	3.53043	0.1370847	2.3950571415035
(501715)	18.4	282.53528	242.50152	178.37724	3.91497	0.1306728	2.2425964415036
(501716)	17.3	339.23915	125.67166	242.13059	9.29244	0.1368712	2.2376043415036
(501717)	17.5	236.27602	239.60389	232.83280	4.12186	0.2237917	2.4035874415036
(501718)	18.6	328.45751	159.22085	219.45917	3.93043	0.1780442	2.2448224415037
(501719)	17.6	215.44722	179.48754	301.78808	4.59049	0.1777544	2.3721397415037
(501720)	16.2	158.91757	230.67644	235.17182	14.16071	0.1140280	2.8563053415038
(501721)	18.1	18.90192	200.14836	109.13753	5.42477	0.1070424	2.3253172415038
(501722)	18.5	336.98820	352.53894	30.63621	3.88246	0.0959780	2.1461782415038
(501723)	17.8	329.99247	125.90999	239.09541	5.87271	0.1413719	2.3068505415039
(501724)	18.6	2.08971	130.97502	220.12053	4.93342	0.1967407	2.1701461415039
(501725)	16.3	40.15535	209.97377	44.93564	16.60985	0.1343455	2.5465161415039
(501726)	18.6	266.86384	52.28732	34.66361	1.97644	0.1822022	2.2935644415039
(501727)	18.2	241.69485	335.92815	127.03872	4.75739	0.1072001	2.3118555415040
(501728)	18.1	283.63299	252.18102	173.20858	4.35832	0.1245132	2.2318271415040
(501729)	17.7	215.79789	252.85161	228.31576	2.35956	0.1805305	2.3595726415040
(501730)	17.8	220.47144	234.21523	231.00847	3.34879	0.1312160	2.3914366415041
(501731)	18.3	356.04571	276.19337	56.97201	2.13585	0.2661008	2.2316278415041
(501732)	17.4	122.72056	340.24629	230.40592	6.52735	0.0591578	2.3908247415041
(501733)	16.8	346.36078	235.91876	35.73539	9.94908	0.1807799	2.5858070415042
(501734)	17.4	115.22197	132.22795	75.19598	7.13670	0.0693189	2.4094820415042
(501735)	17.6	218.99381	249.93767	223.44718	6.54983	0.0325693	2.2778298415042
(501736)	18.5	266.37958	230.64878	214.48309	4.93080	0.1919993	2.3119527415043
(501737)	17.7	276.98685	267.42805	142.16768	1.41438	0.1831130	2.3586294415043
(501738)	18.3	57.40903	226.19723	65.18258	4.31771	0.1581609	2.1477097415043
(501739)	18.3	4.22394	282.52925	60.15424	4.02386	0.1536994	2.1717479415044
(501740)	17.0	214.71717	277.91839	145.14974	5.62420	0.0521103	2.7137268415044
(501741)	18.2	264.19892	179.17319	249.85500	3.34877	0.0674566	2.3427215415044
(501742)	18.1	333.50560	249.28973	118.97601	4.99206	0.1680289	2.1825070415045
(501743)	18.2	16.58550	23.30108	285.54688	5.57626	0.2575196	2.2279303415045
(501744)	18.0	240.77936	138.04357	306.62194	1.08090	0.1106088	2.3946766415045
(501745)	17.7	166.80586	234.51952	304.50403	6.77510	0.0608016	2.2411624415046
(501746)	17.5	148.43129	312.31041	232.61975	8.47383	0.0886055	2.3187077415046
(501747)	18.5	353.59351	345.42197	336.63583	2.42172	0.1827463	2.3129221415046
(501748)	17.9	21.61884	346.81463	342.79364	1.61495	0.1894974	2.1432174415046
(501749)	18.1	319.83992	52.84813	350.06669	1.63302	0.0929369	2.1861554415047
(501750)	17.8	176.44401	126.42728	37.83112	5.46884	0.0968844	2.3486047415047
(501751)	18.3	288.01873	5.97946	38.08051	6.20899	0.1349954	2.3371092415047
(501752)	17.8	200.91472	163.42552	305.83918	3.86317	0.0546525	2.4548028415048
(501753)	17.6	205.94223	239.46937	248.31344	6.31582	0.0547909	2.3239513415048
(501754)	17.4	199.10319	263.50500	219.78484	5.58777	0.1017250	2.4547650415048
(501755)	18.0	325.10054	236.67972	134.08064	4.69476	0.1700598	2.2170320415048
(501756)	18.3	18.08734	231.83097	73.58504	6.43109	0.1400057	2.2300175415049
(501757)	18.1	7.87549	14.54383	343.30743	1.60530	0.1273286	2.1583654415049
(501758)	17.7	242.42888	353.25387	99.69573	6.93027	0.0815605	2.3448217415049
(501759)	17.6	214.19365	258.22694	215.21311	3.98090	0.1459631	2.4337875415049
(501760)	17.7	354.08066	225.28512	139.90109	3.19498	0.0190220	2.2263790415050
(501761)	18.0	356.37666	194.81346	159.31617	4.62907	0.1489224	2.2086218415050
(501762)	18.2	324.01599	219.23512	159.83676	7.38944	0.1539623	2.2392745415051
(501763)	18.2	334.48777	218.34802	158.03524	6.48095	0.1771900	2.1922187415051
(501764)	17.6	319.71865	235.10239	112.88723	6.26738	0.2704311	2.3346237415051
(501765)	18.1	23.88621	245.33543	63.77083	6.43398	0.1582375	2.2027258415052
(501766)	17.6	343.96681	306.43974	59.11778	6.35132	0.0668010	2.2131034415052
(501767)	18.5	17.70705	242.19181	62.71025	3.07941	0.2638218	2.2166540415052
(501768)	18.7	283.44873	129.02395	286.79450	4.92873	0.1266734	2.2673198415052
(501769)	18.4	276.36032	172.02596	254.80304	2.54645	0.1990503	2.3106302415053
(501770)	17.8	28.49047	220.62488	87.19270	4.46866	0.1365579	2.1767475415053
(501771)	17.9	4.77933	157.88693	172.95884	5.24603	0.2508301	2.2155584415053
(501772)	17.9	302.56188	57.61117	339.82876	6.65760	0.1442640	2.2904395415054
(501773)	17.1	212.06801	22.84412	125.48938	5.88400	0.0536098	2.2225815415054
(501774)	17.9	351.30423	259.15460	73.67975	8.10695	0.1107369	2.2650681415055
(501775)	18.2	30.96354	215.97834	74.63484	6.32637	0.1599422	2.2812917415055
(501776)	18.6	308.82666	17.71669	16.73545	7.13703	0.1779415	2.2268792415055
(501777)	17.7	346.59213	231.73733	106.66754	6.43389	0.1274351	2.1949998415055
(501778)	18.1	318.02219	334.58665	68.14551	6.72714	0.1774833	2.1602053415056
(501779)	17.3	280.82793	120.67502	323.20491	22.49072	0.2565808	2.3095032415056
(501780)	17.6	1.83213	62.01528	278.49088	5.71560	0.1325355	2.2555232415056
(501781)	18.3	310.96217	35.97356	344.88000	3.28006	0.1828900	2.3271839415057
(501782)	18.2	262.24671	358.21788	74.66442	2.19391	0.1489316	2.3852814415057
(501783)	19.0	299.15631	60.43761	3.54843	2.90044	0.1938474	2.2521909415057
(501784)	17.9	234.45755	267.22471	199.67590	5.22025	0.2002210	2.3740898415058
(501785)	17.9	246.71593	236.20975	213.87641	5.41011	0.0571772	2.2407907415058
(501786)	18.4	271.00524	224.46463	215.21296	6.37126	0.0828531	2.3019206415058
(501787)	18.2	298.48645	218.98092	176.98339	2.65861	0.1838437	2.3320204415058
(501788)	18.7	259.22191	234.30090	201.65461	1.08441	0.1616762	2.4026718415059
(501789)	17.8	34.84147	163.57462	166.39740	3.04248	0.1742386	2.1331418415059
(501790)	18.7	317.62879	333.97525	73.88167	3.62876	0.1272892	2.2172853415059
(501791)	17.4	31.63546	251.02412	42.20872	3.55278	0.1723812	2.3349664415059
(501792)	17.5	339.92105	232.13319	68.29693	4.03205	0.1698200	2.6216566415060
(501793)	18.5	308.25510	217.70923	187.18062	1.87315	0.1904735	2.2540415415060
(501794)	16.6	95.51984	343.32008	233.35719	12.74485	0.1792944	2.6268583415060
(501795)	18.8	337.39082	301.72677	86.73098	4.52265	0.1661285	2.1778177415061
(501796)	17.3	208.69971	94.90605	64.94032	6.67317	0.0772316	2.2071596415061
(501797)	17.6	170.18711	311.32103	216.50756	6.34934	0.0420287	2.3444514415061

(501798)	18.2	213.02924	70.13930	68.13874	5.95216	0.0844039	2.3006628415062
(501799)	17.8	272.05394	169.42887	257.93251	2.05387	0.1497802	2.3202637415062
(501800)	17.9	293.66349	127.05176	277.07963	6.58394	0.1739258	2.3473596415062
(501801)	18.7	292.05335	160.20766	245.27689	0.93734	0.1433064	2.3217251415063
(501802)	18.1	352.28970	301.50631	52.11471	5.84228	0.1756098	2.2087949415063
(501803)	17.7	224.37926	157.66387	310.02836	1.65052	0.1733893	2.4042012415063
(501804)	17.3	111.73603	346.90419	257.88784	4.87548	0.0454039	2.2016537415064
(501805)	17.5	207.84876	246.15879	240.29717	6.89007	0.1030436	2.4442614415064
(501806)	17.5	61.40270	191.15640	85.65651	8.70296	0.1290973	2.3169222415064
(501807)	17.9	303.58707	340.95317	48.18757	2.96394	0.2129199	2.3322100415064
(501808)	18.0	274.10760	185.67127	257.27308	4.29942	0.1560483	2.2937840415065
(501809)	17.3	214.48387	84.59467	44.11589	6.01731	0.0268783	2.3643782415065
(501810)	18.1	24.01928	243.90781	74.57966	5.40008	0.1695101	2.2517826415065
(501811)	17.3	218.76341	264.42770	206.82077	4.01967	0.2198523	2.5438373415066
(501812)	17.9	348.05283	284.78057	77.74156	2.99145	0.1803925	2.2247976415066
(501813)	17.1	183.62757	208.75855	290.11899	2.60902	0.1452437	2.5635240415066
(501814)	18.4	37.98099	132.61238	175.87377	3.33783	0.2110936	2.1740164415066
(501815)	18.2	289.32246	287.74798	117.35295	4.73889	0.1976419	2.3265125415067
(501816)	18.0	12.52174	206.68381	108.67116	4.87587	0.1669452	2.2699575415067
(501817)	18.0	357.48367	222.81765	121.87410	5.79993	0.1380646	2.2376212415067
(501818)	18.2	263.95445	207.38186	249.74435	2.67002	0.1261169	2.2103110415068
(501819)	18.1	308.09058	115.95073	280.11042	7.42159	0.1143040	2.2245014415068
(501820)	18.2	108.29827	158.00632	90.89951	4.85926	0.1417175	2.2065013415068
(501821)	18.5	264.87682	249.09768	202.34926	2.94428	0.1341394	2.2778783415068
(501822)	18.6	250.74107	22.60025	94.80851	2.97933	0.0769288	2.2141846415069
(501823)	18.0	23.68604	97.27730	198.86191	6.13293	0.1404590	2.3343611415069
(501824)	17.2	354.12615	179.32714	97.02986	5.52301	0.0729548	2.7527694415069
(501825)	17.6	111.94646	161.11126	83.91501	5.00303	0.0994635	2.2335444415069
(501826)	18.3	335.49990	249.94870	107.38475	4.68870	0.2158239	2.2551441415070
(501827)	18.5	358.75322	293.95465	43.70973	5.03774	0.2318762	2.1404143415070
(501828)	18.0	256.64751	20.07893	75.72740	6.97336	0.1607289	2.2569097415070
(501829)	18.3	346.34677	343.88123	354.95467	3.51353	0.2163447	2.2269582415071
(501830)	17.5	323.54066	239.20891	101.99768	6.54670	0.2040719	2.3841716415071
(501831)	18.2	355.06048	7.19543	356.60965	4.99808	0.1019763	2.2079549415071
(501832)	18.3	248.85494	151.70232	309.36830	2.33265	0.1427198	2.3678277415071
(501833)	18.0	356.35825	93.57147	267.91712	3.24705	0.0697934	2.2478083415072
(501834)	18.5	289.37140	96.68329	335.57383	3.50459	0.1214897	2.2611717415072
(501835)	18.5	291.33424	209.41874	214.83138	1.56246	0.1697283	2.2705783415072
(501836)	17.0	65.90148	123.06982	105.37414	5.66710	0.1184120	2.6909189415072
(501837)	17.9	97.78758	104.35922	154.03382	3.52506	0.0558808	2.2611320415073
(501838)	18.3	250.57098	277.98656	182.52521	0.84066	0.1377070	2.3447441415073
(501839)	18.2	203.24707	315.97456	196.82611	0.67738	0.1149274	2.3460599415073
(501840)	16.0	21.00862	168.43322	66.61726	17.97779	0.1766595	3.0792455415074
(501841)	17.5	271.93527	355.47935	71.44355	2.46649	0.1699910	2.3773321415074
(501842)	17.8	200.43978	263.89158	231.41658	5.71708	0.0719483	2.4398729415074
(501843)	18.6	319.25090	45.24944	339.47471	4.03256	0.2182546	2.2483547415074
(501844)	17.7	22.81649	174.47251	105.47192	9.29285	0.0389806	2.5281575415075
(501845)	18.0	1.25812	201.62844	134.94973	4.51476	0.1701060	2.2934549415075
(501846)	17.0	193.95013	48.26108	62.75191	6.47707	0.1311869	2.6713779415075
(501847)	17.0	208.01303	185.86116	305.36914	14.25902	0.0872727	2.5330518415075
(501848)	18.2	262.47049	324.58347	107.33447	5.89509	0.0826512	2.3451575415076
(501849)	17.9	102.23465	42.24398	192.76767	8.09639	0.0342118	2.3557620415076
(501850)	17.8	302.01849	283.64638	137.04830	5.42197	0.0923803	2.2201126415076
(501851)	17.2	119.77178	241.04146	306.02060	8.42890	0.0651281	2.5857849415077
(501852)	17.6	337.96985	29.26586	323.17866	6.32622	0.1321368	2.3072595415077
(501853)	17.1	356.28824	324.44528	21.59108	7.79085	0.1347371	2.2909962415077
(501854)	17.7	353.46586	241.91077	94.78224	3.12570	0.1220177	2.3507877415077
(501855)	18.4	329.72073	152.24374	237.44103	1.95054	0.1491788	2.1955648415078
(501856)	17.9	229.17554	240.74004	233.51124	4.09083	0.1858790	2.4102178415078
(501857)	16.2	178.96512	337.53356	184.26907	12.81363	0.1128972	2.7570085415078
(501858)	16.9	223.10012	35.80356	62.01804	13.03036	0.1418787	2.5634223415079
(501859)	18.4	332.40985	175.33125	178.89058	6.20537	0.1343489	2.3139566415079
(501860)	18.0	209.57363	342.43755	173.35774	4.06206	0.0891403	2.2722323415079
(501861)	18.5	276.18191	333.60228	114.03160	7.07983	0.0911419	2.2470100415080
(501862)	18.3	260.32785	311.39615	119.05730	5.80611	0.1302637	2.4256036415080
(501863)	18.2	284.03883	319.22777	105.30710	5.86612	0.2163129	2.3168140415080
(501864)	17.8	235.86691	319.74083	132.53118	7.28465	0.0961543	2.4715743415080
(501865)	17.9	288.53463	275.38790	129.56196	4.15906	0.1865858	2.3694407415080
(501866)	18.8	350.94651	281.97910	93.45389	5.40652	0.1628091	2.1541345415081
(501867)	16.6	243.06877	317.66499	112.06334	10.18930	0.0592129	2.5599174415081
(501868)	17.2	265.59607	334.33998	93.51947	10.71948	0.0780743	2.4147682415081
(501869)	18.1	268.14092	276.28353	174.47007	4.56577	0.0955994	2.3034929415082
(501870)	17.7	287.27737	236.49079	166.71394	7.50682	0.1503188	2.3830441415082
(501871)	17.5	25.77719	191.35958	96.03709	8.39653	0.1032653	2.3818746415082
(501872)	16.9	222.54308	325.05050	103.35479	13.43700	0.0566181	2.6199207415082
(501873)	17.9	308.11297	58.39120	324.86899	5.88909	0.1205144	2.3481129415083
(501874)	18.1	331.84019	109.25212	270.17140	6.53692	0.1327254	2.2327243415083
(501875)	17.9	354.03214	254.83618	88.83576	10.37489	0.2284737	2.2085428415083
(501876)	16.5	273.44244	230.99847	174.53886	9.38197	0.0819039	2.7875212415084
(501877)	18.1	245.83106	118.14206	347.94396	6.21844	0.0332963	2.2548050415084
(501878)	17.2	254.43933	15.14046	165.77023	17.89236	0.7634296	2.2602279415084
(501879)	17.9	300.82097	109.58417	283.62956	5.80124	0.1327718	2.3339648415085
(501880)	16.3	78.38004	215.56636	31.96646	14.88338	0.0105136	2.6563086415085
(501881)	18.4	288.87040	241.99230	190.31062	5.15879	0.1491177	2.2744532415085
(501882)	18.1	318.56177	223.89646	151.91110	8.00800	0.1934411	2.2437859415085
(501883)	15.7	162.65641	249.59025	270.78419	10.13062	0.0453853	3.0377608415086
(501884)	16.2	302.56052	249.70600	143.68482	25.04967	0.1610217	2.7389011415086
(501885)	19.0	308.78288	236.42575	165.61971	2.33037	0.2217270	2.2793206415086
(501886)	18.3	286.44234	355.65588	60.57185	3.08491	0.1657313	2.3616326415087
(501887)	18.3	321.94746	261.49513	151.87616	5.03692	0.1688712	2.1936251415087
(501888)	16.6	235.72892	346.84743	115.42982	15.77140	0.2192431	2.6275052415087
(501889)	17.1	256.76720	304.63690	126.81633	13.54509	0.1537423	2.6378815415088
(501890)	16.7	176.39952	297.32197	214.48196	6.51133	0.2513003	2.8716247415088
(501891)	16.7	150.78944	193.24952	336.55555	14.07876	0.0496500	2.7357993415088
(501892)	15.9	90.28218	326.46576	308.67162	12.44578	0.1137751	2.6537159415088
(501893)	16.5	353.19363	197.37803	155.03463	9.63387	0.1136125	2.6721420415089
(501894)	17.7	271.61413	93.90586	16.28274	7.85597	0.2212408	2.4685394415089
(501895)	15.9	115.01336	179.27617	51.82603	10.93819	0.0625489	3.0235785415089
(501896)	16.1	185.72377	108.92026	80.56590	10.28682	0.0410316	2.7274416415090
(501897)	16.4	248.37798	64.88881	43.96931	5.41601	0.1018675	2.7485192415090
(501898)	16.6	220.55902	133.45965	5.43744	13.69624	0.2515092	2.7690133415091
(501899)	18.8	306.43007	86.85750	334.59799	3.18232	0.1451912	2.2035793415091
(501900)	17.6	215.86683	218.46290	284.81544	6.41767	0.0429336	2.2858228415091
(501901)	16.6	216.04264	171.04347	295.99300	4.84305	0.0868628	2.5284759415091

(501902)	18.2	306.26501	232.52504	164.45680	10.40994	0.2273313	2.2737591415092
(501903)	16.6	71.79122	122.50578	73.27838	11.39553	0.0399484	2.9294435415092
(501904)	18.3	303.49905	173.71267	244.12522	4.01383	0.1465457	2.2565896415092
(501905)	16.0	224.06046	139.51025	311.16158	9.04303	0.0781530	3.0187628415093
(501906)	16.2	276.16382	283.16554	133.84625	9.56865	0.1767683	2.7361439415093
(501907)	16.3	152.99182	200.41765	326.23825	14.44308	0.1516156	3.1432100415093
(501908)	16.3	264.54714	148.97382	318.18784	13.10438	0.1374777	2.5665439415094
(501909)	16.0	180.35577	45.50549	82.26089	8.30406	0.1542071	3.1964830415094
(501910)	16.2	257.56493	325.91344	125.00377	14.11885	0.0774971	2.7281580415094
(501911)	18.4	338.98108	200.09272	145.33452	1.80742	0.2024424	2.3103754415095
(501912)	17.6	249.13320	297.29375	154.63131	13.15718	0.1758546	2.6079822415095
(501913)	17.0	270.01862	294.28572	135.60736	22.57607	0.0556262	2.6753969415095
(501914)	15.9	66.22326	342.43661	277.64929	14.64344	0.1754941	3.0778122415096
(501915)	16.4	342.57197	198.76572	156.64035	10.59365	0.0754526	2.7207813415096
(501916)	15.6	103.77567	317.93172	259.79011	9.82841	0.0928802	3.0793760415096
(501917)	15.7	134.89286	41.02549	143.50060	18.01186	0.1714656	3.1498843415096
(501918)	16.8	10.58433	112.92400	227.52743	5.41369	0.0631300	2.6651518415097
(501919)	15.6	177.10988	262.71651	237.95705	10.12924	0.0869486	3.0419686415097
(501920)	16.8	217.46959	339.67610	165.01884	14.95529	0.0285188	2.5492114415098
(501921)	17.1	206.20496	299.09183	208.34494	11.03459	0.1340138	2.6693419415098
(501922)	16.9	170.69631	307.21844	252.20718	23.36139	0.1688708	2.2791909415098
(501923)	17.8	287.86624	229.42431	184.96501	4.93930	0.1498400	2.3266405415099
(501924)	16.8	133.82354	296.90950	255.94804	16.76786	0.1204874	2.5610288415099
(501925)	16.7	308.96803	295.51401	129.05542	15.10125	0.1008261	2.5349998415099
(501926)	17.0	196.53995	9.34961	119.18645	14.68265	0.0888395	2.5573412415099
(501927)	16.8	262.29243	198.93439	254.36180	8.30827	0.1302719	2.5418923415100
(501928)	17.1	252.20289	295.53943	152.65042	13.16348	0.1550411	2.6401368415100
(501929)	16.6	323.86008	116.08458	271.14496	13.36239	0.0961066	2.5745195415100
(501930)	16.7	254.18312	288.49568	150.72401	13.06712	0.1688525	2.6792226415101
(501931)	16.7	127.25020	328.40530	218.90757	9.82461	0.1492684	3.1389189415101
(501932)	17.0	216.96466	326.07932	153.83829	13.63976	0.2157451	2.5150540415101
(501933)	18.1	300.17354	345.83894	68.35620	4.41229	0.1307226	2.2454163415102
(501934)	17.8	346.06954	14.77640	321.63395	11.02950	0.4663040	2.2581999415102
(501935)	18.6	8.35910	231.78062	103.63597	7.87903	0.3281433	2.1774918415102
(501936)	18.1	278.06020	151.23029	270.08108	0.33703	0.1711954	2.3753682415102
(501937)	16.0	166.72921	267.04988	254.14534	12.69796	0.1334127	2.5803321415103
(501938)	17.6	345.25306	239.38136	123.13371	4.85298	0.1840819	2.2478428415103
(501939)	17.8	266.14236	345.90233	112.19396	10.31912	0.0425497	2.2835642415103
(501940)	17.6	346.89715	291.93863	91.15757	8.22663	0.1246935	2.3350637415104
(501941)	17.0	220.17942	183.61047	298.41224	13.96432	0.1281786	2.6410100415104
(501942)	16.4	192.79459	1.43093	111.72378	4.16368	0.1192539	2.9075179415104
(501943)	18.2	299.35496	49.10256	13.06726	1.23711	0.1681331	2.3648337415105
(501944)	17.6	310.30559	335.72828	86.45722	8.40885	0.1316136	2.2182326415105
(501945)	17.9	301.57089	293.05436	144.29946	5.93245	0.1928203	2.2765306415105
(501946)	16.0	167.71285	9.09570	128.25885	13.66303	0.0240304	3.0303761415106
(501947)	16.9	236.05836	180.62792	289.21802	12.93346	0.2025052	2.5974862415106
(501948)	16.2	7.02483	21.89741	299.49912	10.96570	0.0656682	2.7813959415106
(501949)	17.0	278.31440	315.60790	116.00130	6.75059	0.0629512	2.5676086415107
(501950)	16.4	274.03639	302.62413	120.41641	27.33786	0.1630848	2.5955354415107
(501951)	16.7	209.70917	341.16141	125.02853	9.75240	0.1739094	2.7951319415107
(501952)	16.0	131.26770	63.40377	106.68725	26.31318	0.1592921	3.1570487415108
(501953)	17.2	265.96432	312.52486	111.88124	14.75866	0.1672142	2.5967718415108
(501954)	16.5	234.59610	352.10699	109.92337	6.27830	0.0919801	2.6391047415108
(501955)	17.2	157.44546	103.05531	71.52670	7.16160	0.0072935	2.7345157415109
(501956)	17.2	335.88174	117.85667	284.33075	22.59559	0.2815878	2.2248294415109
(501957)	16.3	112.66483	312.11927	287.49939	12.14836	0.1696584	2.7837704415109
(501958)	16.8	221.04425	177.02379	289.78390	12.58927	0.1414319	2.6346251415110
(501959)	17.9	254.29322	139.53545	310.17667	1.67318	0.1718438	2.4199005415110
(501960)	18.1	301.65585	105.96886	328.93894	4.96451	0.1494630	2.1948814415110
(501961)	17.3	210.26044	312.13129	211.65474	0.72465	0.1241953	2.4554631415111
(501962)	18.7	274.89948	202.41504	252.54553	1.43979	0.1824015	2.3727934415111
(501963)	16.3	268.33567	133.81829	297.78430	20.65910	0.1174800	2.5894530415111
(501964)	18.0	337.84456	328.70163	69.52700	4.10186	0.1752531	2.2845842415112
(501965)	16.5	152.44919	235.03562	294.93337	10.97753	0.1180564	2.5209630415112
(501966)	16.6	65.66193	320.65872	279.88962	15.75314	0.1864221	2.5375887415112
(501967)	17.6	298.11430	339.10547	97.95786	6.78552	0.1939967	2.3364882415112
(501968)	16.4	141.81630	219.88197	305.85788	5.11710	0.1057067	3.0953452415113
(501969)	16.7	252.94922	314.13669	122.18259	6.43651	0.0243676	2.7660243415113
(501970)	16.4	132.06978	66.44195	94.53477	13.37479	0.1154873	3.1460571415113
(501971)	17.5	282.21203	71.61614	21.92146	2.91346	0.1587993	2.2984622415114
(501972)	17.8	238.55406	161.04053	321.67385	5.77268	0.1397868	2.3539818415114
(501973)	17.6	293.40173	300.85768	165.46546	4.43571	0.0946924	2.2147737415114
(501974)	17.6	328.70809	93.33798	317.31497	7.23562	0.2048983	2.2243166415115
(501975)	16.6	296.33977	6.97011	7.30167	6.00558	0.0549818	2.7325821415115
(501976)	17.4	202.05925	133.37720	36.10397	5.39696	0.0496283	2.3786007415115
(501977)	16.8	218.79455	61.67412	69.06797	14.20452	0.0167753	2.5775995415116
(501978)	16.2	216.73351	76.38411	16.10012	14.84193	0.1239747	2.8589122415116
(501979)	16.2	108.10204	121.99733	69.35891	6.61199	0.1058472	3.1062157415116
(501980)	17.1	335.55752	283.12954	65.85877	6.53793	0.0652929	2.6713017415117
(501981)	17.7	255.09448	38.18026	60.02012	4.75252	0.1510421	2.4772522415117
(501982)	17.5	270.41700	146.86008	284.78471	8.34367	0.1865382	2.3880165415117
(501983)	16.9	197.89642	107.63402	52.11043	6.92031	0.0889947	2.5516809415117
(501984)	18.4	305.47298	219.24984	205.10785	1.85044	0.2320062	2.2793724415118
(501985)	17.7	249.99977	104.74004	21.58031	6.03195	0.2194206	2.4193449415118
(501986)	16.7	191.34978	176.41905	298.46857	14.08520	0.1134884	2.7174007415118
(501987)	16.6	245.79000	297.05946	146.09112	8.20746	0.1499685	2.5427664415119
(501988)	16.6	214.43842	21.68183	107.71415	10.36150	0.1650634	2.5250643415119
(501989)	16.7	148.69026	192.71785	27.60695	15.35585	0.1246993	2.5950842415119
(501990)	18.0	335.15189	286.47826	121.12823	5.74002	0.0724177	2.2642780415120
(501991)	18.2	296.80516	60.62237	21.05933	6.21987	0.1632667	2.2963366415120
(501992)	16.1	106.46403	180.99694	16.07299	11.26877	0.0498161	3.0060694415120
(501993)	17.5	228.17007	2.37091	115.22977	13.75491	0.1159694	2.5710493415120
(501994)	16.4	11.39026	20.62286	233.73489	8.97874	0.0612713	3.0365626415121
(501995)	17.9	302.55761	108.84602	316.50725	2.72658	0.1275585	2.3417675415121
(501996)	17.1	169.59762	261.66411	302.68628	4.48035	0.0527423	2.4038469415121
(501997)	16.6	72.98226	123.29436	106.13732	10.69701	0.1637132	3.1290375415121
(501998)	17.4	191.35980	166.80903	318.21961	2.68926	0.0449808	2.8077088415122
(501999)	17.2	237.25352	156.58928	280.76032	3.20004	0.0242336	2.8003562415122
(502000)	18.2	45.09147	219.18813	138.43082	1.74727	0.1129343	2.1561363415122
(502001)	16.1	331.84860	207.66221	101.61310	8.93360	0.0997731	3.1535582415122
(502002)	17.5	254.97123	157.73543	310.14478	5.78151	0.0751268	2.4399435415123
(502003)	16.9	93.14313	263.43200	314.63599	5.23233	0.1454729	3.0401228415123
(502004)	17.7	292.29934	113.00553	316.57948	4.31670	0.0832543	2.4147395415123
(502005)	17.7	150.52371	197.15854	28.32923	2.69310	0.1288790	2.4688288415123

(502006)	18.2	288.78844	324.43240	107.38582	2.12588	0.1563839	2.3931032415124
(502007)	16.6	76.00041	310.68637	328.08578	6.41138	0.1314179	2.5564009415124
(502008)	17.5	240.67184	188.91892	276.88643	4.52573	0.0558285	2.5197685415124
(502009)	17.4	256.49577	317.08376	103.86625	7.56191	0.0542926	2.7079929415125
(502010)	17.0	264.15691	102.46560	305.51356	5.03710	0.0116541	2.7859022415125
(502011)	18.1	237.40220	167.55727	292.01982	2.92155	0.1139635	2.5818056415125
(502012)	17.4	36.73398	40.33699	245.17175	3.98386	0.0818193	2.7149602415125
(502013)	16.2	109.58750	271.37905	281.99040	9.83899	0.0789510	3.0267608415126
(502014)	16.4	87.57858	130.98540	114.16922	10.50103	0.0702368	2.6949863415126
(502015)	17.0	199.54055	10.41187	107.36288	13.58239	0.0554098	2.7748241415126
(502016)	16.5	263.04791	143.25911	289.02422	13.79102	0.0520184	2.6131956415126
(502017)	17.4	223.36456	198.72618	262.10586	3.46811	0.0727493	2.7172203415127
(502018)	17.9	357.77357	185.11792	167.77974	2.64437	0.1068741	2.4557503415127
(502019)	17.4	168.35104	293.55441	276.04594	5.42484	0.0604131	2.4045702415127
(502020)	17.4	231.30930	330.42237	134.44651	3.56945	0.1698976	2.6217847415127
(502021)	17.6	240.51062	250.82277	203.41889	1.20372	0.0025225	2.6631580415128
(502022)	17.7	170.56129	175.11102	342.61100	0.28381	0.0161055	2.7206501415128
(502023)	18.2	248.32816	57.01638	78.19923	2.67950	0.1367148	2.3505326415128
(502024)	17.1	336.98125	238.70393	103.11602	5.45077	0.1077246	2.6536679415128
(502025)	16.0	99.27641	3.86309	166.56975	20.30650	0.0478933	3.1216263415129
(502026)	16.7	206.24947	328.26023	140.64740	22.48074	0.0185157	2.6651932415129
(502027)	17.1	274.41508	305.80117	106.62330	7.39715	0.0618548	2.6762186415129
(502028)	16.3	55.11107	282.25371	316.57433	3.90902	0.1004097	3.1824465415129
(502029)	16.7	308.60461	234.64029	113.41769	19.37012	0.1701801	2.8648390415130
(502030)	16.5	82.12028	306.37855	305.00765	3.46575	0.0781991	2.7392890415130
(502031)	16.6	284.56654	234.76594	149.62671	2.42940	0.0095408	2.9089096415130
(502032)	16.9	160.32237	241.98485	292.07600	3.84519	0.0682000	2.7500464415131
(502033)	17.4	183.57926	211.91576	304.35305	0.84245	0.1140616	2.7173651415131
(502034)	18.2	316.12697	168.36507	260.91786	1.35168	0.1584336	2.2667742415131
(502035)	17.0	36.06295	11.29365	299.25814	6.78950	0.1611507	2.5970512415131
(502036)	17.0	145.30682	33.54433	144.09470	2.60015	0.0241572	2.8427968415132
(502037)	17.7	335.38902	236.17581	114.21015	3.89806	0.1404578	2.6620135415132
(502038)	16.9	355.86522	34.49601	301.28594	6.73728	0.1952175	2.6087198415132
(502039)	16.0	51.84361	305.61884	310.68489	9.83416	0.1206046	3.0705861415132
(502040)	17.1	297.69345	272.67590	113.64319	7.07416	0.0805083	2.7190925415133
(502041)	17.0	45.82522	190.73091	93.12911	4.17153	0.0392480	2.7288059415133
(502042)	17.1	329.82701	31.24283	316.65608	5.67791	0.0954034	2.7471091415133
(502043)	17.3	153.20735	176.81631	35.58527	2.19490	0.0911689	2.5333171415133
(502044)	17.9	346.78353	75.71520	313.49246	6.78733	0.1388517	2.2990312415134
(502045)	17.0	44.98296	256.67550	37.86006	2.70710	0.1236627	2.6914298415134
(502046)	16.8	74.69764	193.74279	74.45225	4.02929	0.0591845	2.6796210415134
(502047)	17.2	346.07787	253.17300	116.78974	12.48981	0.0414835	2.5104476415135
(502048)	15.9	65.96481	131.36312	111.98681	12.07839	0.1101890	3.0949083415135
(502049)	17.7	79.01565	317.15274	319.88387	4.32172	0.0931531	2.5868937415135
(502050)	17.4	312.75932	81.22497	304.75220	13.95871	0.0906571	2.5989798415135
(502051)	18.0	325.34179	269.05727	123.98141	6.94471	0.1768512	2.3942191415136
(502052)	17.5	201.18280	48.12629	129.25681	3.21710	0.1325369	2.4702328415136
(502053)	16.9	130.12337	65.54363	120.47250	3.19699	0.0166132	2.9324239415136
(502054)	16.9	281.63576	289.56037	113.48000	2.72388	0.0640716	2.7618020415136
(502055)	16.6	98.35222	134.04537	124.52486	8.17102	0.1236249	2.6497512415137
(502056)	17.7	281.88699	54.24875	17.81348	1.47949	0.1659076	2.4649421415137
(502057)	17.2	204.37341	36.80662	113.51731	6.17648	0.1151163	2.6038234415138
(502058)	17.1	81.16055	191.99709	116.13586	7.75229	0.1410713	2.3323552415138
(502059)	17.3	308.22894	53.24551	321.72719	6.01362	0.0681468	2.7713907415138
(502060)	17.3	252.09601	354.32896	99.09150	4.87746	0.1804244	2.5555182415139
(502061)	17.4	263.70220	22.98056	56.98969	4.11433	0.0464757	2.6236701415139
(502062)	17.6	277.58386	38.56775	20.02038	3.02315	0.0375121	2.6910332415139
(502063)	16.1	61.37906	293.86819	312.94348	24.76168	0.1739247	3.2235807415139
(502064)	17.0	274.75608	314.85067	95.75901	6.82864	0.0359744	2.7904059415140
(502065)	17.9	241.53259	17.16181	90.51857	4.29208	0.0662411	2.6012477415140
(502066)	18.6	316.34751	328.75488	94.07928	3.74048	0.1954732	2.2923975415140
(502067)	17.4	192.54526	76.52117	96.81363	4.56124	0.1781572	2.5965888415140
(502068)	16.8	34.63579	157.41333	105.45628	5.80774	0.0885783	3.0972101415141
(502069)	17.2	93.68436	123.45579	117.76878	12.59966	0.0820758	2.7817377415141
(502070)	17.2	347.77964	242.61121	108.47930	5.99675	0.0953515	2.5702596415141
(502071)	17.6	258.43887	140.28584	327.30123	5.17594	0.0739205	2.4487985415142
(502072)	17.8	233.52962	335.87463	137.04733	2.60763	0.0227256	2.6258692415142
(502073)	18.4	321.97165	18.56655	23.36343	1.63981	0.1858449	2.3689807415142
(502074)	16.4	21.83342	345.10091	320.20200	14.63173	0.1606803	2.8108921415142
(502075)	15.7	92.06385	278.36929	295.48759	15.28233	0.1951902	3.1277042415143
(502076)	18.0	282.13554	340.65216	100.98798	2.92021	0.1374232	2.3819246415143
(502077)	17.3	265.51831	260.62113	172.68099	9.17131	0.1090527	2.6470011415143
(502078)	16.3	109.80846	82.97212	170.24679	13.58853	0.0828323	2.6293274415143
(502079)	17.6	307.13766	184.05093	248.96081	6.47082	0.0887707	2.3944471415144
(502080)	16.2	314.21359	65.39701	307.77501	24.13854	0.1624577	2.7876384415144
(502081)	16.6	0.48700	98.89131	250.46659	5.29124	0.0615839	2.6928438415144
(502082)	16.7	117.65689	23.80870	168.44797	12.84696	0.0722859	3.2196855415145
(502083)	16.9	319.12479	105.59859	290.29407	13.80453	0.1280485	2.5440286415145
(502084)	17.0	234.15966	226.43986	221.01779	7.47057	0.0427256	2.9206405415145
(502085)	15.9	206.46837	120.89211	340.70797	8.56775	0.0985851	3.0901028415145
(502086)	17.5	265.03218	86.74040	29.05343	3.42087	0.1304710	2.4408686415146
(502087)	17.2	255.73852	130.18448	331.74669	11.08114	0.1676589	2.5587624415146
(502088)	17.6	228.38934	320.13756	177.05653	8.76037	0.1100320	2.5660930415146
(502089)	15.9	220.55391	324.89802	127.59428	11.92508	0.0989400	3.0362615415146
(502090)	16.3	247.16213	324.60269	108.27973	4.68430	0.0821789	2.9368238415147
(502091)	17.1	180.70664	345.88436	151.07944	14.64789	0.1979736	2.6695044415147
(502092)	17.3	344.11914	24.96787	309.20252	5.28205	0.0450404	2.7206759415147
(502093)	16.8	123.71515	214.55226	3.32322	12.86486	0.1054813	2.6778207415148
(502094)	16.9	64.67575	142.53147	101.22361	11.67616	0.0642265	2.9843933415148
(502095)	18.1	295.03366	51.10697	30.83817	2.27081	0.1437722	2.3260249415148
(502096)	17.4	192.71457	153.04797	341.09959	3.77679	0.0531681	2.8135912415148
(502097)	16.2	214.13730	169.20333	321.59030	11.97725	0.1548355	2.7604018415149
(502098)	17.8	306.08532	249.55992	175.45336	6.12977	0.1162738	2.4464600415149
(502099)	17.3	321.63709	212.42248	198.75872	6.25474	0.1185005	2.4440970415149
(502100)	17.2	257.06334	303.69911	134.85965	8.80742	0.1809109	2.7201273415149
(502101)	16.1	323.81303	293.47115	71.51530	13.00631	0.0557041	3.0649339415150
(502102)	18.1	340.00977	156.05452	353.30089	18.97284	0.0647962	1.9608522415150
(502103)	16.7	244.36834	44.92281	55.28383	10.29598	0.0814482	2.7480977415150
(502104)	17.1	295.17700	316.74206	136.50817	14.53472	0.1246482	2.3960051415151
(502105)	15.1	68.05478	35.44644	132.56714	2.41379	0.0850333	3.9587344415151
(502106)	17.0	32.21615	255.72057	45.45726	4.58975	0.0868486	2.7601960415151
(502107)	16.0	12.51630	357.67306	308.57604	18.01457	0.1982141	3.1097768415151
(502108)	17.3	258.80241	112.24443	334.24817	21.66482	0.0488070	2.6701543415152
(502109)	16.4	299.36169	52.25000	331.64096	8.96642	0.0042961	2.9956529415152

(502110)	16.8	286.58040	58.73352	344.93039	9.01343	0.1881165	2.5404805415152
(502111)	16.6	234.71124	323.61150	122.33497	3.05501	0.0342041	2.8610411415153
(502112)	16.9	325.23177	279.26451	117.36690	24.00149	0.2946296	2.3673612415153
(502113)	16.5	119.76303	293.78631	278.31096	13.82229	0.0539059	2.7672814415153
(502114)	17.0	283.72218	126.29568	291.80147	10.28842	0.1556559	2.5888365415154
(502115)	17.7	336.35416	299.95987	101.29497	7.24302	0.1275428	2.3435800415154
(502116)	16.8	223.90946	165.41436	327.53169	10.42476	0.1231527	2.5871954415154
(502117)	17.6	212.58838	225.50317	282.69116	3.38378	0.1270089	2.6113859415155
(502118)	16.2	126.81927	237.90974	308.32844	9.28212	0.1504385	2.9811591415155
(502119)	17.4	182.08452	91.98623	73.83994	3.21715	0.0847291	2.5929066415155
(502120)	17.3	245.32137	352.86175	150.98921	5.17947	0.0489896	2.4008250415156
(502121)	17.9	309.10764	94.39834	336.04970	4.01196	0.1315664	2.2832873415156
(502122)	16.7	167.89395	11.82045	145.55710	3.66867	0.1471224	2.9901915415156
(502123)	16.7	2.53029	216.16279	105.42138	3.27877	0.0590298	2.8683401415156
(502124)	16.4	108.24627	77.72829	121.46394	11.71186	0.0148817	3.0711540415157
(502125)	16.3	358.83113	338.76474	340.16344	1.20911	0.0718095	2.9299436415157
(502126)	16.1	122.83303	230.03755	314.64337	1.91248	0.0301371	3.0661610415158
(502127)	16.6	242.39406	308.66440	127.90530	3.75883	0.1637041	2.7824392415158
(502128)	16.2	93.50233	96.52536	130.50523	17.58491	0.1201486	3.0425108415159
(502129)	17.6	234.79706	311.37759	166.14254	1.89074	0.1535374	2.6376544415159
(502130)	17.4	206.66784	132.06837	352.53010	3.99558	0.0986363	2.6483069415159
(502131)	16.4	99.88332	141.30301	102.99053	5.90022	0.0928498	2.9734691415159
(502132)	17.2	312.33434	197.29917	193.09732	5.61863	0.1448705	2.6602340415160
(502133)	17.6	252.38899	0.87142	149.80585	7.27693	0.0530164	2.3434101415160
(502134)	16.8	351.73104	206.99524	153.68974	14.08915	0.1200415	2.6504548415160
(502135)	16.3	25.37003	177.65019	156.62913	11.44044	0.1007959	2.6630416415161
(502136)	16.4	153.92195	10.95559	155.75140	12.15953	0.0310938	3.1123762415161
(502137)	17.1	278.57921	139.42402	294.03587	3.46007	0.0810499	2.6879500415161
(502138)	17.3	266.57038	227.26014	228.55418	2.36374	0.0861000	2.5952520415162
(502139)	16.4	80.69395	281.42203	321.37964	8.41845	0.0508369	3.1368364415162
(502140)	17.0	305.77168	263.99811	148.99565	9.10108	0.1112772	2.5908568415162
(502141)	16.5	176.95090	219.66758	292.43895	2.76620	0.0616675	3.0018917415163
(502142)	17.3	163.01111	45.82521	162.26143	1.04687	0.0867978	2.6623063415163
(502143)	16.9	246.88359	302.15329	147.17785	5.70992	0.1385621	2.7941115415163
(502144)	17.1	359.31451	72.83949	309.26677	5.48672	0.1605571	2.4403738415164
(502145)	16.2	27.98833	355.18581	297.39554	7.86165	0.0121844	3.1452118415164
(502146)	16.8	184.71416	359.98110	147.64557	17.57920	0.1638853	2.9224745415164
(502147)	15.5	35.78335	327.29580	296.03771	18.06813	0.0797240	3.1492837415165
(502148)	16.8	21.69236	7.64987	312.43387	6.87950	0.0717649	2.6641317415165
(502149)	17.6	335.81869	279.42638	108.58012	5.80797	0.1770040	2.3717027415165
(502150)	16.0	112.03690	77.33249	122.09377	13.49047	0.1562885	3.1697785415165
(502151)	17.2	226.87192	142.38772	317.02348	13.56529	0.1408270	2.7462275415166
(502152)	18.6	292.53794	51.81983	25.79146	1.68744	0.1597198	2.3806567415166
(502153)	15.5	180.28268	225.37257	283.26127	12.11271	0.0426068	3.2294849415166
(502154)	16.6	220.42852	178.79037	293.98483	15.14411	0.1200367	3.0360880415167
(502155)	17.3	356.49984	328.17672	19.84716	6.58782	0.1466559	2.4737477415167
(502156)	16.8	7.15829	272.69907	45.71644	5.85221	0.0749043	2.6956008415167
(502157)	17.4	14.57964	247.10404	80.67265	9.43787	0.0977145	2.5463370415168
(502158)	17.2	286.22270	24.37846	12.93126	4.98377	0.0511456	2.6823012415168
(502159)	18.0	280.27657	297.45604	145.99836	6.93964	0.1953165	2.3091851415168
(502160)	17.3	272.38761	284.29130	146.86562	9.74949	0.2059379	2.4035712415168
(502161)	18.0	270.07851	329.42463	136.59355	5.89776	0.1948353	2.3728968415169
(502162)	17.3	261.79804	23.53103	46.87665	3.53121	0.1172054	2.6753613415169
(502163)	17.2	80.45917	183.49433	94.12097	5.74199	0.0936272	2.6080296415169
(502164)	17.3	202.85449	146.93498	349.72463	4.31789	0.0639319	2.7185386415169
(502165)	18.6	274.84561	5.39110	98.89441	3.27915	0.1627280	2.3730885415170
(502166)	17.7	299.45276	337.39275	103.14092	4.02055	0.1515906	2.3383792415170
(502167)	18.3	314.59781	3.41260	48.70628	2.31418	0.1704759	2.3813745415170
(502168)	16.1	98.69390	87.83733	121.90346	16.87011	0.0759380	3.1526936415171
(502169)	17.5	282.10830	294.43537	122.25973	9.21117	0.2114554	2.5500005415171
(502170)	16.6	304.19490	267.11728	120.22958	6.69264	0.0471976	2.7578598415171
(502171)	16.1	96.15237	96.20536	125.81465	15.13456	0.1546452	3.1506053415171
(502172)	17.7	293.27131	333.20279	97.87969	2.55835	0.1648080	2.4250263415172
(502173)	16.5	150.56260	108.08038	46.87255	1.25728	0.1237071	3.1494529415172
(502174)	17.5	304.39537	316.63720	121.01612	6.62871	0.1477148	2.3340140415172
(502175)	17.1	131.19881	265.30201	347.12186	6.00257	0.0269929	2.4202274415173
(502176)	16.2	321.05656	3.01317	344.08823	8.07490	0.0508946	3.0196946415173
(502177)	17.3	354.05257	230.88582	116.53148	12.30778	0.2510694	2.5773507415173
(502178)	17.6	350.29074	281.38958	91.87067	6.12640	0.1599597	2.4317235415174
(502179)	16.2	212.63963	357.43169	95.41575	9.52752	0.0386971	3.0769718415174
(502180)	16.4	122.20021	215.27192	342.79556	9.32834	0.0474549	2.9915939415174
(502181)	16.9	274.16874	31.26992	22.59978	6.34850	0.0527129	2.8030257415175
(502182)	15.9	162.76879	124.21536	18.51653	5.30019	0.0762284	3.1386040415175
(502183)	16.8	257.84166	359.85076	79.14560	5.43289	0.0447497	2.7534033415175
(502184)	17.3	261.91547	112.09461	358.62379	6.62475	0.1366145	2.4500902415176
(502185)	17.0	318.20433	36.79363	337.49480	5.75433	0.0515882	2.7835953415176
(502186)	17.1	183.77132	71.05262	74.90382	3.17983	0.0087920	2.8621938415176
(502187)	16.1	8.56592	181.28606	116.71851	10.01855	0.0464484	3.1561165415177
(502188)	16.3	160.98345	28.88808	113.03977	9.17994	0.0971037	3.1889251415177
(502189)	16.2	42.65456	292.36642	328.02629	8.05325	0.0527058	3.1742647415177
(502190)	17.9	289.92380	348.67006	94.21926	4.23510	0.1823788	2.3925079415177
(502191)	16.6	149.06362	68.07684	89.90405	2.72558	0.1538100	3.1789874415178
(502192)	16.1	63.69126	1.55521	251.71392	8.38388	0.0675097	3.0217945415178
(502193)	17.2	236.46584	298.63702	160.03953	10.00709	0.1293747	2.6962561415178
(502194)	17.1	205.19802	276.20839	222.61671	5.38585	0.0080095	2.6911815415179
(502195)	17.0	83.53118	12.69700	244.38147	6.44149	0.0505799	2.7674568415179
(502196)	16.6	78.30042	15.17052	271.80293	9.20809	0.1402858	2.5863060415179
(502197)	17.3	346.13272	81.03728	268.13234	7.63768	0.2302033	2.6186043415179
(502198)	16.5	155.44887	241.48139	271.86636	3.98904	0.1202477	3.1706479415180
(502199)	17.0	185.23052	17.63289	143.74991	15.84386	0.0759536	2.7569356415180
(502200)	16.7	341.13563	81.59197	273.16273	3.47126	0.0887730	2.7856249415180
(502201)	16.9	342.67108	195.30392	159.48465	9.72461	0.1338928	2.6552932415180
(502202)	16.9	221.95863	7.13804	102.50557	9.90253	0.0891713	2.7511496415181
(502203)	17.0	58.48031	192.11063	93.79677	4.40690	0.0722612	2.7184479415181
(502204)	16.3	126.37847	80.71395	107.06270	9.62878	0.0703921	3.0666640415181
(502205)	17.2	174.98794	195.66159	334.09144	8.71493	0.0310111	2.6891525415182
(502206)	17.5	234.52037	86.99391	6.95027	3.82975	0.0715251	2.7776413415182
(502207)	16.9	292.36759	282.43254	106.79278	12.54517	0.1706990	2.7356760415182
(502208)	16.6	80.84118	183.62184	64.99678	6.15882	0.2354920	3.1367804415182
(502209)	17.2	307.80950	334.15335	34.62263	4.01256	0.1073464	2.8043011415183
(502210)	16.5	69.74642	194.39554	52.20233	4.20023	0.1434205	3.1043903415183
(502211)	15.4	203.93884	301.68595	139.16431	15.78305	0.0966447	3.2011450415183
(502212)	18.7	292.20952	290.57951	161.18604	4.49129	0.2484015	2.2621293415184
(502213)	17.5	28.57914	244.29118	92.00697	7.32464	0.1319017	2.3646282415184

(502214)	17.2	351.22422	268.10535	93.77412	10.33495	0.1344068	2.4220616415184
(502215)	15.9	144.77734	289.90977	277.63933	17.05179	0.1239817	2.6701335415185
(502216)	17.8	324.41565	239.31174	149.28847	3.89995	0.2146068	2.4185978415185
(502217)	17.1	268.00832	290.62375	145.48453	2.29657	0.0673570	2.6486842415185
(502218)	17.3	227.12238	5.25100	122.84623	3.03666	0.0258818	2.6394086415186
(502219)	15.6	144.23413	29.17820	133.07084	16.38691	0.0224623	3.1578684415186
(502220)	18.0	244.32286	315.07240	145.31307	4.75969	0.1855942	2.6382145415186
(502221)	16.5	139.15908	13.77612	173.53815	1.00738	0.1422826	3.0562176415187
(502222)	16.2	66.27784	298.67130	298.85184	4.44646	0.0243535	3.2514378415187
(502223)	17.2	239.38508	284.95356	165.91506	4.41688	0.0791702	2.8097196415187
(502224)	16.9	305.54539	265.49026	148.28246	9.02252	0.0407743	2.5818449415187
(502225)	18.4	318.96306	276.59063	146.62431	4.71437	0.2347451	2.2842170415188
(502226)	17.1	37.42449	75.27550	222.98716	5.53727	0.0272463	2.7745560415188
(502227)	17.5	295.92126	117.62302	306.34549	8.08489	0.1702571	2.4482626415188
(502228)	18.0	319.78335	312.62192	108.55388	3.09735	0.1689594	2.3354842415189
(502229)	16.9	119.85406	235.08372	356.42040	1.80080	0.0210074	2.7175169415189
(502230)	16.8	169.13905	158.19809	50.66576	8.01864	0.1359404	2.5794534415189
(502231)	17.8	285.06880	16.00176	68.40171	2.23570	0.1525110	2.4465638415190
(502232)	17.3	259.18852	325.59099	115.51385	6.64414	0.1881151	2.6375226415190
(502233)	17.8	306.81846	149.11170	269.69447	1.67806	0.1905405	2.4539155415190
(502234)	16.8	302.23572	269.66592	149.88374	14.81743	0.1594957	2.5651094415190
(502235)	17.1	175.09779	52.72992	144.15406	10.08777	0.0448783	2.6375527415191
(502236)	17.1	245.95652	327.32762	145.83830	12.09905	0.1544635	2.6262780415191
(502237)	16.4	251.56325	291.73327	141.52639	17.35144	0.1482610	2.8472476415191
(502238)	17.0	268.65559	14.39862	45.41351	4.51520	0.0955687	2.7502857415192
(502239)	17.6	247.55645	65.33146	39.30952	2.50329	0.0372562	2.5148294415192
(502240)	17.8	222.55085	58.04798	93.69414	8.63218	0.0577014	2.3937442415192
(502241)	18.3	309.65248	298.17929	116.05284	5.39035	0.1396338	2.4280891415193
(502242)	16.8	331.70313	39.62291	311.76155	13.43429	0.2093760	2.6940497415193
(502243)	16.7	97.93045	112.18291	111.52881	1.87166	0.0852960	3.0000427415193
(502244)	17.2	126.13575	329.72015	229.10451	1.14794	0.0313098	2.8765097415193
(502245)	17.3	269.87959	127.61113	292.49514	3.75202	0.0580816	2.7404930415194
(502246)	18.0	295.43529	298.07186	127.87889	3.22392	0.1773338	2.4701277415194
(502247)	16.9	95.10421	134.50735	144.58111	4.69211	0.0474525	2.5357196415194
(502248)	16.0	332.82256	228.98872	127.78279	12.67086	0.0361562	2.9965457415194
(502249)	17.4	302.56713	257.23751	156.15771	6.43216	0.0769401	2.6097589415195
(502250)	17.1	358.47256	43.17459	311.13195	3.25643	0.1443598	2.6863150415195
(502251)	16.5	24.44090	162.16045	145.76293	10.40039	0.0860297	3.0075184415195
(502252)	16.8	52.41410	138.82551	146.79883	12.52761	0.0165361	2.9136659415196
(502253)	16.7	247.05645	281.92870	161.69781	4.79403	0.1356565	2.7070030415196
(502254)	16.4	52.92477	150.14355	90.99813	16.02531	0.1022027	3.1268935415196
(502255)	16.2	223.88138	255.99697	157.97970	7.51721	0.2001360	3.0312356415197
(502256)	16.6	113.10527	252.98188	353.06176	6.71943	0.0295856	2.6857729415197
(502257)	17.2	36.01614	229.52676	93.20348	4.75989	0.0266811	2.6651549415197
(502258)	17.7	280.33251	24.41916	66.41546	2.71018	0.1544966	2.4684582415197
(502259)	16.9	242.11484	349.53794	113.38291	6.19990	0.1244817	2.7123061415198
(502260)	17.1	302.82411	276.20355	124.05473	11.01146	0.1110428	2.7130961415198
(502261)	17.5	203.03868	58.48954	77.41184	5.81383	0.0718056	2.7178615415198
(502262)	16.3	355.70461	221.61598	112.69821	14.24839	0.1565112	2.7292083415198
(502263)	17.1	55.53496	280.56652	22.57504	1.87717	0.0487389	2.5591892415199
(502264)	16.9	28.42850	214.53990	99.01363	3.79627	0.0681962	2.6845376415199
(502265)	16.5	49.81707	168.42078	93.73961	5.53490	0.0475393	3.0246851415199
(502266)	16.8	333.20075	246.01396	110.00634	7.40660	0.0613834	2.7571813415200
(502267)	17.3	45.48607	323.40343	322.91124	2.85266	0.0651081	2.8096550415200
(502268)	17.5	189.65247	18.77351	123.99278	9.72202	0.1063469	2.7982621415200
(502269)	16.3	108.07763	250.16197	309.52025	9.91340	0.0708189	3.1285943415200
(502270)	17.1	334.82644	241.77246	120.44576	6.14534	0.0860557	2.6720431415201
(502271)	18.2	304.03066	312.55827	94.50067	2.55816	0.0885122	2.5478802415201
(502272)	17.2	35.94945	304.27337	358.53761	3.86798	0.0651994	2.7519218415201
(502273)	16.8	349.26506	212.68961	125.04072	4.51950	0.2003970	2.7415271415202
(502274)	17.9	335.48298	257.68822	128.35683	3.27896	0.2039375	2.3919216415202
(502275)	16.8	202.96321	158.39820	326.37018	4.01488	0.0759625	2.8310783415202
(502276)	16.7	82.23654	122.03776	116.95091	10.82909	0.0399492	2.9759836415203
(502277)	17.3	288.47941	349.38377	79.58303	3.45852	0.0834953	2.5254490415203
(502278)	16.9	344.40306	272.86607	73.88238	5.43235	0.1353506	2.7276291415203
(502279)	16.8	335.41847	260.30000	105.07543	8.61842	0.1398383	2.6232205415203
(502280)	18.2	336.75349	42.07280	342.75181	5.28384	0.2516797	2.3474574415204
(502281)	16.3	325.51484	43.41803	319.69374	24.02182	0.0479319	2.7721780415204
(502282)	15.4	54.41445	299.88377	323.51395	25.54373	0.2278424	3.1779620415204
(502283)	17.5	332.11956	359.71222	8.36369	6.25818	0.0324259	2.7026528415205
(502284)	17.1	40.46204	277.38509	17.61188	6.43501	0.0662018	2.8127232415205
(502285)	16.4	316.52824	19.51333	336.60549	14.45065	0.0280922	2.9984124415205
(502286)	17.0	330.84887	283.76595	71.44653	6.28198	0.1430739	2.7804541415205
(502287)	17.8	339.78653	19.87375	17.13312	6.27018	0.1632599	2.3389204415206
(502288)	17.0	314.57975	341.92236	45.23257	6.90242	0.0357054	2.7031726415206
(502289)	17.1	295.77364	359.60087	58.25953	6.61645	0.1455819	2.5162596415206
(502290)	16.3	120.98152	197.04018	3.41406	9.78046	0.1571615	3.1132649415207
(502291)	17.4	263.37607	31.41660	86.05903	8.13019	0.0155167	2.4392360415207
(502292)	17.1	218.54857	92.03276	36.70400	6.36700	0.1471636	2.6765980415207
(502293)	17.0	26.17489	218.82939	90.21374	7.42447	0.0223263	2.8053188415208
(502294)	16.1	329.77982	226.77993	112.88909	13.74487	0.0560636	3.0773412415208
(502295)	17.1	169.15217	110.32545	87.99704	4.60002	0.0842906	2.5844293415208
(502296)	18.4	309.29197	87.81090	332.31959	3.93276	0.1381369	2.4087140415208
(502297)	16.2	48.05793	145.50490	125.31952	14.46180	0.1692958	3.1439252415209
(502298)	17.4	296.71369	310.87151	116.38012	8.03012	0.1731053	2.4295118415209
(502299)	16.5	79.82941	109.12220	122.39100	10.59366	0.0623915	3.1447339415209
(502300)	17.2	184.20229	177.66063	345.07704	3.59524	0.0231288	2.7048412415210
(502301)	17.6	299.64563	40.94992	21.06394	3.08521	0.1694234	2.4500852415210
(502302)	17.0	284.12439	1.71004	36.11537	2.48432	0.0749761	2.8625626415210
(502303)	17.3	324.31793	302.84014	110.35627	6.85270	0.0971482	2.3957595415210
(502304)	16.4	201.09929	126.16308	337.29202	10.38078	0.1173417	3.0637012415211
(502305)	16.6	50.39153	291.80514	347.69991	5.55616	0.1623609	3.0196182415211
(502306)	16.8	73.93475	168.68698	109.89208	6.56896	0.0947963	2.7367786415211
(502307)	17.1	73.66373	243.93203	25.66038	4.60995	0.0292168	2.7648713415212
(502308)	17.3	55.65081	266.63104	24.26147	4.55757	0.0525942	2.7455409415212
(502309)	16.9	299.23898	286.52618	98.98302	6.84355	0.0800353	2.8460086415212
(502310)	17.3	263.47361	31.64688	47.49368	3.92249	0.1347117	2.6436874415212
(502311)	17.9	340.82186	301.32213	92.71647	7.76979	0.0821175	2.3799410415213
(502312)	16.5	12.63129	168.73850	128.14313	9.68762	0.0436146	3.0447539415213
(502313)	18.0	303.78711	54.59542	358.83679	5.02602	0.1369171	2.4774355415213
(502314)	16.9	41.89574	309.74464	329.42408	10.56202	0.0778377	2.9898512415213
(502315)	16.5	156.84041	202.06227	340.68900	8.68574	0.1532872	2.8665702415213
(502316)	16.6	234.06977	344.99321	123.34480	11.33922	0.0810536	2.8024057415214
(502317)	16.5	259.82861	292.93633	156.40382	12.79137	0.1352780	2.7987357415214

(502318)	16.9	83.07469	88.68671	153.65787	9.20578	0.0312684	2.9836887415214
(502319)	17.1	262.74631	231.19837	196.28724	3.64624	0.0874144	2.8026391415215
(502320)	17.0	287.34818	175.88755	229.02035	2.95873	0.0974999	2.7765145415215
(502321)	17.0	288.87874	152.34285	250.55771	2.58501	0.0998238	2.7782986415215
(502322)	16.9	4.37227	153.49661	183.63065	5.71553	0.0527685	2.7186854415216
(502323)	17.4	355.34837	35.35348	314.81659	14.02442	0.1215339	2.5811659415216
(502324)	17.1	324.41726	274.05570	88.30598	5.17163	0.0889482	2.7506205415216
(502325)	16.9	57.67281	308.68035	318.52068	4.11784	0.0754286	2.9099915415216
(502326)	17.3	334.69704	244.32534	118.26786	7.23449	0.0596124	2.6938215415217
(502327)	17.1	44.49558	7.56830	323.77974	5.35070	0.1464754	2.4036843415217
(502328)	16.4	68.75826	186.84466	67.06701	2.82396	0.1387391	3.0438365415217
(502329)	17.3	39.40344	196.50584	111.70482	7.33924	0.0471054	2.6671332415218
(502330)	16.6	174.27035	12.13475	116.70722	11.73769	0.0169292	3.1114330415218
(502331)	17.9	295.15014	304.72989	121.66019	2.11802	0.1711922	2.4362807415218
(502332)	17.7	326.93101	53.60828	317.45030	15.18460	0.1386287	2.6322382415218
(502333)	15.9	289.10288	58.09319	322.42141	15.58972	0.0075096	3.0311211415219
(502334)	17.7	250.72286	125.72931	330.52005	11.14657	0.1388001	2.5855853415219
(502335)	17.2	69.43077	287.66093	7.17389	9.40581	0.1090923	2.5938145415219
(502336)	17.0	84.99090	166.30032	103.53860	13.40946	0.1026730	2.7224341415219
(502337)	17.5	328.57013	320.32633	85.97322	6.93228	0.1113848	2.3969156415220
(502338)	16.9	17.45254	241.16370	81.42347	3.74561	0.0633558	2.7381624415220
(502339)	16.4	69.51916	118.90728	119.20647	10.88195	0.0455320	3.1616897415220
(502340)	17.1	5.55770	243.56100	113.52846	3.95730	0.0637682	2.5261271415221
(502341)	16.7	207.91086	182.98517	319.88041	11.65577	0.1341600	2.6729990415221
(502342)	17.0	60.34828	189.96539	99.70406	6.30634	0.0119041	2.6853033415221
(502343)	17.2	322.56934	278.77452	92.15755	5.26656	0.0824935	2.7573351415222
(502344)	18.2	333.14052	31.37470	358.80829	4.91128	0.1191023	2.4841569415222
(502345)	17.0	35.91419	214.55488	97.22610	6.55442	0.0576757	2.7169679415222
(502346)	17.9	346.40885	22.91349	342.80388	2.09431	0.1124065	2.5236617415222
(502347)	16.9	163.71444	77.15514	95.42760	4.27824	0.0382346	2.7930596415223
(502348)	16.0	3.39810	314.25564	346.77513	15.44218	0.1508172	3.2191931415223
(502349)	15.7	72.43504	301.98993	296.48304	16.67650	0.1497892	3.1952835415223
(502350)	18.4	330.06489	235.58193	161.28666	4.13093	0.2249666	2.3318435415223
(502351)	17.6	236.63352	285.30177	197.95790	4.52335	0.0869311	2.5300176415224
(502352)	17.1	264.82455	133.53236	316.22868	11.91053	0.1524000	2.5888993415224
(502353)	17.3	251.04210	314.51319	135.57889	5.91165	0.1350618	2.7069782415224
(502354)	15.9	246.49057	290.64732	110.63502	14.63432	0.1564034	2.7514807415224
(502355)	15.9	128.50965	255.64020	275.18551	17.47850	0.1063947	3.0744378415225
(502356)	16.7	271.40165	302.41310	109.44649	4.63521	0.0934931	2.8152336415225
(502357)	17.1	280.79559	311.12686	81.89736	6.78066	0.0591708	2.7324174415225
(502358)	15.8	54.43522	1.86408	251.06795	8.50794	0.1912044	3.1303112415226
(502359)	16.5	64.94241	307.42578	321.66391	4.50590	0.0917376	2.6500175415226
(502360)	17.2	70.66691	168.53623	76.39380	5.50842	0.0147570	2.7879348415226
(502361)	17.1	189.75672	38.47922	89.81637	6.02383	0.1118110	2.7982858415227
(502362)	19.0	301.74302	33.36500	8.63259	2.26947	0.2386246	2.4001658415227
(502363)	16.6	104.80108	173.88457	70.47076	7.36086	0.0559841	2.5834395415227
(502364)	16.4	119.13102	170.50634	19.41361	6.60367	0.1804780	3.0470459415228
(502365)	16.5	59.01586	306.20817	327.58459	12.36316	0.1518188	2.6788801415228
(502366)	17.0	207.31055	91.15864	29.39270	4.44357	0.0692710	2.6965422415228
(502367)	16.0	291.13233	87.57444	259.81981	10.94842	0.1176702	3.1430246415228
(502368)	18.0	35.30037	264.03115	62.30688	4.77401	0.0799148	2.4247669415229
(502369)	16.9	289.48344	262.42096	132.56145	12.72674	0.1151019	2.7182926415229
(502370)	18.0	287.80981	313.58609	138.46355	6.58038	0.1026852	2.3666754415229
(502371)	16.7	75.43613	147.52359	132.81714	15.16084	0.2203229	2.6957163415229
(502372)	17.4	145.04613	1.43823	197.36970	0.78743	0.0461952	2.7179196415230
(502373)	17.7	326.53494	234.76972	139.41489	3.69780	0.1626374	2.5619242415230
(502374)	17.1	58.14919	142.44299	158.33346	6.43751	0.1193031	2.5798045415230
(502375)	16.9	77.06242	23.19811	237.18852	2.52248	0.0186147	2.7555871415231
(502376)	17.7	306.90039	139.30549	282.17034	9.30583	0.2064263	2.3571915415231
(502377)	16.9	8.75707	172.49325	161.02352	9.65937	0.0646125	2.6714990415231
(502378)	16.9	283.99341	278.64287	136.87296	27.26485	0.0937913	2.6274612415232
(502379)	16.8	56.99498	2.51784	286.70848	11.32581	0.0617544	2.6950210415232
(502380)	16.6	45.38354	122.40987	146.28619	10.50789	0.1112153	3.0733936415232
(502381)	16.9	41.76744	35.35233	258.37380	3.49767	0.0331836	2.7711274415232
(502382)	17.8	320.57275	116.96751	277.05440	5.46240	0.2002975	2.4340884415233
(502383)	17.0	349.74984	200.71339	147.56314	11.52961	0.0899520	2.6839459415233
(502384)	18.1	331.36290	144.82217	247.80486	1.85020	0.2012659	2.3688013415233
(502385)	17.2	137.42467	280.83317	276.44080	3.17045	0.0410343	2.8042311415234
(502386)	17.9	315.62462	283.22573	137.25680	5.36388	0.1345908	2.3540644415234
(502387)	16.3	159.98988	200.47591	305.46940	8.93682	0.0373873	3.0859742415234
(502388)	17.9	318.64308	244.89162	153.72131	2.92985	0.1365958	2.4709865415234
(502389)	17.5	242.28439	278.76973	177.28107	1.77991	0.0323653	2.7245676415234
(502390)	16.6	86.58367	358.55187	278.41409	3.35345	0.1778027	2.6501968415235
(502391)	15.9	311.41080	195.00778	142.44127	9.30320	0.1357463	3.2351839415235
(502392)	16.2	189.19755	164.64089	313.21846	9.25020	0.0733445	3.0533686415235
(502393)	17.4	286.51123	264.11583	139.77996	3.90721	0.1668147	2.6602274415236
(502394)	17.1	250.91965	308.41182	132.77781	0.51791	0.0516030	2.7730006415236
(502395)	17.5	282.67489	292.33314	130.50892	1.66587	0.1082259	2.6154513415236
(502396)	17.6	234.23782	18.26549	114.93604	5.99076	0.0347125	2.5377334415237
(502397)	17.1	270.90598	307.06262	124.03833	3.19143	0.0444832	2.7347851415237
(502398)	18.0	289.79396	272.40583	173.76633	1.48597	0.1535818	2.4054338415237
(502399)	17.1	10.84352	190.98404	153.53037	2.40418	0.0935376	2.6267400415237
(502400)	18.7	314.29352	118.13828	308.58892	2.37664	0.2359256	2.3047272415238
(502401)	16.4	71.88252	285.36397	326.61393	2.44503	0.1409141	3.1527417415238
(502402)	17.8	302.95762	188.17170	232.27596	2.52327	0.1329301	2.4740287415238
(502403)	17.0	197.56507	353.23799	160.80952	5.79773	0.0419385	2.6893908415238
(502404)	16.7	239.72217	186.51703	265.12848	5.19921	0.0518637	2.8163742415239
(502405)	16.1	193.87351	187.34281	295.26109	8.51706	0.0426980	3.0093932415239
(502406)	17.0	125.87852	38.46329	179.85503	4.08617	0.0785227	2.7940037415239
(502407)	17.3	170.23024	11.94489	155.99970	8.01875	0.0795178	2.8121273415239
(502408)	16.8	95.37580	76.14393	168.23993	4.71744	0.0551901	2.8121144415240
(502409)	16.9	356.75808	121.01514	221.21136	3.83708	0.1219433	2.7161227415240
(502410)	17.0	25.00537	41.88975	278.88908	5.21986	0.0703907	2.7068947415240
(502411)	16.7	188.08935	226.71724	286.43628	3.74015	0.0775884	2.7721958415241
(502412)	16.0	18.79705	148.06704	149.26803	11.68509	0.1618123	3.1007167415241
(502413)	16.5	131.12554	43.86032	141.45884	18.78106	0.1400800	3.1341580415241
(502414)	17.3	270.34816	294.25997	141.41707	11.76886	0.0906644	2.6259934415242
(502415)	16.7	277.13397	287.34326	138.76015	11.92800	0.1727578	2.5763100415242
(502416)	15.9	256.35717	249.29804	140.87473	11.73589	0.1873173	3.0923965415242
(502417)	16.1	153.48928	213.84027	306.17101	7.04946	0.0351146	3.0447032415243
(502418)	16.4	2.31443	23.22231	285.58401	7.83477	0.0464033	3.0389340415243
(502419)	16.1	24.99606	30.33472	258.16034	4.45907	0.1319400	3.0917537415243
(502420)	16.4	106.68261	46.60627	149.91550	9.98250	0.0603581	3.1987783415243
(502421)	16.7	242.07742	156.82668	286.62826	6.96734	0.1938749	2.7282334415244

(502422)	16.7	285.10574	125.34676	285.61849	5.57534	0.0644197	2.7116339415244
(502423)	16.1	168.74319	212.10745	283.19746	5.24806	0.1412091	3.1222542415244
(502424)	18.0	312.32687	274.80524	152.53857	7.43916	0.1507688	2.3399687415245
(502425)	16.6	143.80759	291.31041	254.45512	5.60756	0.0444919	2.8593481415245
(502426)	18.4	305.04967	274.58611	163.95010	5.27300	0.1911121	2.3025628415245
(502427)	16.9	42.55616	31.01521	266.91517	6.03487	0.0600487	2.7533044415246
(502428)	17.5	222.66940	340.04871	134.69973	5.77243	0.1013499	2.7587980415246
(502429)	15.6	26.10229	150.22484	144.59190	10.77024	0.0726902	3.0080110415246
(502430)	16.6	25.90739	75.63377	275.54163	13.71520	0.1273406	2.5712175415247
(502431)	17.3	355.87010	110.92159	249.54952	3.16287	0.1470094	2.4668007415247
(502432)	17.5	294.05945	144.64312	284.55035	4.50229	0.1941648	2.3908395415247
(502433)	17.0	271.89859	319.02520	99.67609	4.83017	0.0891372	2.8015555415248
(502434)	16.3	80.80096	329.09525	326.97188	14.04084	0.1214805	2.5477609415248
(502435)	18.0	288.89968	347.96321	104.80913	2.75548	0.1445068	2.3859672415248
(502436)	17.4	271.45072	285.33801	136.75894	8.37993	0.2197434	2.7625242415248
(502437)	16.0	210.88700	316.72327	153.50390	11.26494	0.0614853	3.1293379415249
(502438)	17.1	212.14066	24.93199	119.31438	4.65835	0.0362370	2.7732698415249
(502439)	16.2	165.72673	189.26257	342.78161	9.38011	0.0457781	2.9908830415249
(502440)	16.9	23.98754	17.35227	339.43206	12.93374	0.1243405	2.5267406415250
(502441)	16.9	139.11725	82.00677	131.87669	7.04365	0.1644572	2.9468437415250
(502442)	17.7	302.68814	293.03736	131.58968	5.99378	0.2002703	2.4837595415250
(502443)	16.7	73.43002	114.58342	147.20974	16.39559	0.0791056	3.0964869415250
(502444)	17.2	246.04932	297.54261	159.80018	4.44029	0.0432062	2.7518831415251
(502445)	16.0	222.93592	124.08858	319.86287	9.59141	0.0594620	3.1447902415251
(502446)	16.6	98.05122	282.54899	318.76633	0.28472	0.1240982	3.0106307415251
(502447)	17.0	51.59373	62.48617	223.52346	8.36481	0.1648110	2.7315475415252
(502448)	15.9	75.91074	109.89233	143.85356	12.05873	0.0917753	3.1156117415252
(502449)	16.8	209.51480	7.97057	127.62244	4.60244	0.0376855	2.8164212415252
(502450)	16.4	202.17130	328.49545	139.73851	11.36573	0.0703152	3.1664981415253
(502451)	16.2	165.93901	24.01722	142.32065	12.45198	0.0643051	2.9883479415253
(502452)	15.7	305.71898	228.35263	140.90364	10.65652	0.1109589	3.1023198415253
(502453)	16.0	228.44487	111.47242	351.77825	12.54302	0.1228091	3.0730318415254
(502454)	16.8	334.62520	184.04586	201.86761	13.88487	0.1463618	2.4517709415254
(502455)	15.4	108.47139	298.44070	268.27522	14.42576	0.0693779	3.1373280415254
(502456)	16.0	252.13836	308.29795	141.10572	9.78103	0.1081822	3.0199458415254
(502457)	16.6	197.56284	150.46382	32.98553	7.28186	0.0603756	2.7063510415255
(502458)	16.1	12.66174	201.74922	144.48544	12.89298	0.0649904	2.9832584415255
(502459)	16.9	167.15788	82.93581	133.84756	10.49378	0.1083521	2.7796690415255
(502460)	16.2	57.89715	242.20756	20.64918	9.65706	0.0993828	3.0330119415256
(502461)	15.7	244.62637	316.61147	102.75410	15.95370	0.0230445	3.1088813415256
(502462)	16.3	213.60729	97.45860	3.01558	10.78309	0.0383765	2.9750658415256
(502463)	17.2	40.82512	300.95271	31.29919	6.59273	0.1553648	2.4337678415256
(502464)	18.0	290.35632	262.67013	183.34396	1.75400	0.1735860	2.3464410415257
(502465)	16.7	94.88048	112.65577	131.47750	4.71999	0.0498852	2.7892917415257
(502466)	16.3	13.74909	191.02670	147.69201	18.60775	0.1549597	2.7425555415258
(502467)	17.1	289.79069	29.23888	2.33329	4.16494	0.0771428	2.7919907415258
(502468)	16.8	126.23665	93.95236	85.56543	2.27091	0.0309775	3.1046745415258
(502469)	17.6	7.01483	10.72371	326.54846	1.84210	0.0895904	2.6596514415258
(502470)	18.3	298.99228	12.86938	46.29793	3.01978	0.1829326	2.4337342415259
(502471)	17.7	284.08920	16.46096	68.35361	6.26328	0.1119679	2.4571964415259
(502472)	18.0	255.36268	30.18247	91.26976	5.27894	0.1862464	2.4804202415259
(502473)	16.0	158.07633	186.98620	315.16479	14.96987	0.0409661	3.1639985415259
(502474)	16.1	170.54335	31.31836	101.57416	10.52822	0.0535416	3.1625665415260
(502475)	17.2	287.78915	338.55082	92.34271	5.63730	0.0982453	2.5212962415260
(502476)	16.6	188.41234	22.56567	103.07310	4.41149	0.0727473	3.0000312415260
(502477)	15.5	65.25507	281.86758	322.97906	27.50942	0.0849875	3.2035824415260
(502478)	17.1	141.57180	77.02802	104.87439	6.06436	0.0459461	2.9783833415261
(502479)	16.8	297.47411	87.33808	302.74024	11.43784	0.0719079	2.6200386415261
(502480)	18.3	274.63902	305.20743	135.40022	12.78042	0.1903313	2.5155490415261
(502481)	16.3	75.93022	89.68672	137.78525	8.77692	0.0452759	3.1718785415261
(502482)	16.9	42.31672	230.02258	82.14651	1.67067	0.0564299	2.7898044415262
(502483)	17.0	245.68478	321.10874	130.16075	3.03020	0.0550345	2.8551253415262
(502484)	15.5	153.61163	279.46514	253.07591	11.03698	0.1602898	3.1202255415262
(502485)	17.7	322.21719	261.34910	142.24318	6.18152	0.2468778	2.3948659415263
(502486)	16.3	205.95175	141.50513	327.11440	9.11076	0.0264895	3.1220082415263
(502487)	16.0	102.81904	76.22792	148.40771	12.86478	0.0761696	3.0929131415263
(502488)	17.1	333.90096	231.00889	142.82429	4.91521	0.1226302	2.7000941415264
(502489)	16.8	101.11820	87.48662	143.58887	13.58806	0.0878522	3.0968454415264
(502490)	16.6	120.75528	191.52400	22.89516	4.22522	0.0380878	2.7801407415264
(502491)	15.9	61.61002	266.32430	334.50604	10.13350	0.0345718	3.1393036415264
(502492)	16.7	346.85260	261.71117	89.01465	7.13290	0.0626361	2.7210244415265
(502493)	17.0	305.70671	267.10047	104.39883	4.91735	0.1103393	2.8102821415265
(502494)	17.2	242.87707	16.85683	75.60214	5.82108	0.0317969	2.7701696415265
(502495)	16.0	142.36407	75.96655	103.08803	11.53452	0.0216006	2.9618912415266
(502496)	17.9	307.76051	9.93031	73.17119	6.74752	0.1270673	2.3108084415266
(502497)	16.7	211.21360	280.73922	179.47419	2.23536	0.0565708	3.0581100415266
(502498)	16.9	299.86000	88.93828	303.19294	3.85088	0.1179580	2.7540566415266
(502499)	17.6	289.13583	141.41962	277.11256	1.62075	0.0748486	2.6479292415267
(502500)	18.1	323.56729	234.99833	177.94757	1.37990	0.1802005	2.3664672415267
(502501)	17.0	318.26446	65.27725	318.00626	8.07837	0.1553146	2.6621657415267
(502502)	16.5	82.46020	113.02085	128.22570	10.17335	0.0798725	3.0735517415268
(502503)	17.5	15.17503	8.64667	348.69883	6.03926	0.1394650	2.4587491415268
(502504)	17.4	284.97259	76.61251	340.21180	2.06713	0.0714417	2.7269209415268
(502505)	16.2	15.11568	330.77978	332.22734	9.90265	0.0761552	3.1099904415268
(502506)	16.7	289.78427	66.68059	330.57681	8.82668	0.1267452	2.8142078415269
(502507)	16.2	128.44471	232.44354	322.61432	8.02749	0.0906864	3.0971212415269
(502508)	16.5	7.10033	145.73623	177.55712	2.26566	0.0556023	2.9271620415269
(502509)	17.3	264.78574	121.57377	314.76419	1.72480	0.1862026	2.6445631415269
(502510)	17.3	346.15322	223.52152	142.92979	13.63148	0.1935823	2.5785460415270
(502511)	16.8	328.99778	90.21004	280.97247	1.27616	0.0898508	2.7598207415270
(502512)	16.9	266.31113	270.68244	153.35489	6.57053	0.0484734	2.8777769415270
(502513)	16.8	69.87751	303.79953	313.76830	1.26197	0.0808735	3.0810966415271
(502514)	16.8	8.70855	352.58969	328.96972	11.19569	0.0403382	2.9616306415271
(502515)	16.0	47.05637	298.80695	328.99897	9.70764	0.0278752	3.1801319415271
(502516)	17.3	257.50784	340.70526	120.26220	5.36697	0.1190991	2.5997435415271
(502517)	15.9	0.75403	190.92167	126.33692	14.40367	0.1790580	3.1415816415272
(502518)	16.7	115.16908	243.51984	334.78250	22.07170	0.1326221	3.0526614415272
(502519)	16.4	345.01423	219.04681	136.69387	16.43565	0.2214586	2.7324221415272
(502520)	17.4	65.49002	259.82162	29.25768	3.48817	0.0795358	2.7785906415273
(502521)	17.0	265.96745	334.67921	102.79947	5.68276	0.0429582	2.7783024415273
(502522)	17.2	0.19482	343.61733	3.55728	5.37612	0.0308325	2.7802461415273
(502523)	16.7	84.82907	179.34376	91.44067	4.71281	0.0500661	2.7666875415273
(502524)	16.3	99.18761	90.40246	136.16675	12.47386	0.0857775	3.1288023415274
(502525)	17.7	278.36386	107.30753	326.99272	10.38492	0.1853936	2.5707535415274

(502526)	16.8	12.15013	211.17360	125.85244	5.10022	0.1070153	2.7633206415274
(502527)	17.5	256.03324	62.00673	30.25776	2.36164	0.0581738	2.7350022415274
(502528)	17.0	339.76820	49.63571	299.41020	2.49846	0.0212847	2.9776588415275
(502529)	17.2	207.56084	324.16164	155.44005	2.58220	0.0299221	2.9850272415275
(502530)	17.2	204.19400	179.58549	321.90647	4.88632	0.0324645	2.8047917415275
(502531)	16.4	7.27795	349.00643	325.74766	8.35899	0.0557618	3.0967367415275
(502532)	17.3	266.21759	38.18284	41.52630	0.82840	0.0568896	2.7502790415276
(502533)	16.2	322.56737	206.67349	141.69369	5.78553	0.0239302	3.2121656415276
(502534)	17.0	189.04957	170.72872	335.72436	6.96478	0.0203677	2.9170513415276
(502535)	17.1	343.76585	24.82369	344.99263	6.01143	0.0685264	2.7097658415277
(502536)	16.5	298.02176	257.14095	127.46211	6.69056	0.0960346	2.9247933415277
(502537)	16.8	288.30344	292.76752	118.49584	5.41450	0.0715908	2.7990967415277
(502538)	17.3	40.02072	203.64408	127.35401	10.32406	0.1144443	2.6106914415278
(502539)	17.6	251.57784	91.45253	6.62686	5.28508	0.1739675	2.6395768415278
(502540)	16.3	113.98669	82.82370	124.31218	10.62291	0.0443416	3.1721687415278
(502541)	16.8	75.30883	260.76628	14.78281	7.26591	0.0830842	2.8745925415278
(502542)	17.2	235.94490	38.47433	75.50674	4.77603	0.0499055	2.7673742415279
(502543)	17.9	314.19627	32.49695	23.15827	2.31566	0.1943356	2.4533710415279
(502544)	16.7	171.09571	182.20763	328.31699	9.47438	0.0399477	3.0346648415279
(502545)	17.6	313.32515	57.45279	341.33101	0.63833	0.1189259	2.6155642415279
(502546)	16.8	338.01433	248.47014	121.64793	8.34416	0.2089566	2.6209199415280
(502547)	17.0	216.68389	0.62790	126.50708	10.92016	0.0298517	2.8499902415280
(502548)	16.2	278.30399	151.37757	295.67259	21.11203	0.0084066	2.6674444415280
(502549)	17.0	308.14497	273.79042	122.01809	7.15418	0.0533856	2.7654272415280
(502550)	16.7	231.32418	32.67195	83.80388	3.57244	0.0182219	2.7945309415281
(502551)	17.2	333.29808	38.51849	350.22244	10.65923	0.0869727	2.6060766415281
(502552)	16.0	98.92027	245.98060	342.53412	14.11415	0.1430010	3.2300747415281
(502553)	17.4	25.19113	145.33921	173.14385	4.92001	0.0225285	2.6790578415282
(502554)	16.2	46.38171	331.20025	303.57005	15.10488	0.2279637	3.1092725415282
(502555)	16.9	359.12441	53.90855	274.96515	4.70649	0.1050700	2.8006485415282
(502556)	17.4	300.29047	275.83492	142.92789	6.99983	0.1223685	2.4716966415283
(502557)	17.2	357.39745	195.25324	142.07079	6.77052	0.0553897	2.7435082415283
(502558)	17.5	250.06679	219.71904	229.74166	4.67167	0.1164849	2.6731637415283
(502559)	16.9	64.48708	56.31518	197.60082	1.56745	0.0285809	2.9944600415283
(502560)	16.8	340.41782	99.45827	236.71298	0.91403	0.1111030	2.9236288415284
(502561)	17.0	331.07092	218.79757	143.62710	2.89146	0.0479268	2.7704760415284
(502562)	18.1	271.71251	179.23194	292.65873	0.73961	0.1298012	2.3800812415284
(502563)	17.6	6.92079	72.76936	300.09706	7.33109	0.1881312	2.3249130415285
(502564)	15.9	59.61706	306.65249	318.03912	9.09121	0.1789338	3.1387958415285
(502565)	17.0	271.33227	278.46074	138.97247	15.42724	0.1653915	2.7156340415285
(502566)	17.0	104.58275	285.77661	314.25378	2.48864	0.0392524	2.7866700415285
(502567)	17.5	318.19654	34.12978	351.87503	1.56314	0.0366867	2.7206623415286
(502568)	17.6	230.32962	2.31101	117.62263	3.09088	0.0282259	2.6930456415286
(502569)	17.4	261.61806	316.79806	123.05570	6.19676	0.0878161	2.7056514415286
(502570)	17.4	170.29826	70.02510	127.22626	4.79861	0.0754944	2.6211459415287
(502571)	16.8	160.09875	14.18631	159.12094	2.34306	0.0127030	2.8806752415287
(502572)	17.5	136.21104	55.63568	154.40933	6.80512	0.0247006	2.7513726415287
(502573)	17.2	305.30144	114.58544	265.31472	3.75145	0.0912992	2.7594142415287
(502574)	17.3	18.16346	126.74741	198.23281	1.52642	0.0896505	2.6673460415288
(502575)	17.0	98.68820	75.65274	141.77781	10.15031	0.0387335	3.0050513415288
(502576)	16.0	75.53513	315.02430	298.61150	3.82780	0.1347230	3.0448635415288
(502577)	17.1	304.85905	68.37548	322.19487	5.41270	0.0451769	2.7983440415288
(502578)	16.9	35.83886	100.16819	199.24183	1.65024	0.0332221	2.8566002415289
(502579)	17.0	312.01039	265.30311	138.64931	23.28882	0.3109200	2.3501695415289
(502580)	16.5	236.31429	189.40636	276.74013	8.04725	0.0789802	2.5796244415289
(502581)	17.2	309.39168	280.95438	144.08538	13.67945	0.1355704	2.4220637415290
(502582)	16.1	131.81593	47.98485	130.13960	13.13236	0.0919713	3.0333086415290
(502583)	17.7	264.97891	314.16454	160.06803	4.75089	0.1439518	2.4564460415290
(502584)	16.7	226.88065	312.10206	147.19799	8.35125	0.0761471	2.8091981415291
(502585)	16.6	359.37012	218.27110	121.38787	6.67909	0.0709857	2.7633807415291
(502586)	16.8	119.58830	159.61207	76.45746	5.46058	0.0719158	2.7236262415291
(502587)	16.0	91.43238	273.40300	304.43111	15.26656	0.0912141	3.1123346415292
(502588)	16.6	275.24581	136.92687	284.71474	4.36667	0.0696804	2.6615082415292
(502589)	17.1	282.58847	271.68047	129.58963	6.86871	0.0485124	2.7669965415292
(502590)	16.7	61.43822	113.89584	161.49395	2.20362	0.0311995	2.8898892415293
(502591)	16.2	93.11393	260.72529	319.62966	8.26860	0.0367270	3.1664766415293
(502592)	16.2	63.34689	297.02766	319.80747	14.04972	0.1231139	3.1871553415293
(502593)	16.7	169.92643	277.34339	276.30689	3.08379	0.0242129	2.6928624415294
(502594)	16.1	180.32329	201.86879	284.27563	3.55237	0.1089473	3.1363489415294
(502595)	15.9	18.65038	313.87184	325.79028	9.07144	0.0620089	3.4121453415294
(502596)	18.3	294.87361	148.64188	303.99401	1.37188	0.1309815	2.3824660415294
(502597)	16.5	68.55494	63.95903	199.66175	0.57320	0.1311529	3.1538848415295
(502598)	16.6	130.06487	30.21063	151.18992	5.23789	0.1778725	3.0299974415295
(502599)	16.5	193.10149	7.92921	109.40570	2.32853	0.0671864	3.0441679415295
(502600)	17.5	306.87748	29.53332	354.82429	4.74241	0.1415833	2.7344347415296
(502601)	16.8	250.24893	305.33320	153.33208	6.96449	0.0861490	2.8122314415296
(502602)	15.9	78.28020	109.61953	133.70300	13.65089	0.0435072	3.0789912415296
(502603)	17.2	8.44340	28.32864	313.56081	5.32225	0.0464470	2.6550013415296
(502604)	16.6	74.51665	77.07200	160.97956	2.04657	0.0264625	3.0912956415297
(502605)	16.3	177.20647	215.01935	319.77419	28.06964	0.1047722	2.6360520415297
(502606)	15.8	100.26465	169.79283	49.15737	5.93374	0.0973327	3.1264289415298
(502607)	16.6	43.29019	18.68582	287.94250	3.84777	0.0971059	2.7198007415298
(502608)	16.3	131.55047	231.50515	330.49493	9.62748	0.0528443	2.9825176415298
(502609)	16.1	108.41244	245.20029	341.68435	25.81867	0.1778462	3.1145494415299
(502610)	16.9	332.20700	77.04540	296.46546	4.70403	0.0409802	2.7338154415299
(502611)	16.4	192.93287	214.76674	301.58546	5.37605	0.0416652	2.7590997415299
(502612)	18.1	291.50025	174.06444	265.80464	2.93688	0.2326494	2.3965638415300
(502613)	15.8	125.98432	217.14907	332.48065	27.31640	0.1407560	3.1109687415300
(502614)	17.5	243.33689	119.33490	343.84562	4.86580	0.0118575	2.7278798415300
(502615)	16.7	88.86405	297.67059	344.70292	8.03811	0.1118426	2.5986998415301
(502616)	16.7	16.50152	14.07676	325.97617	12.31668	0.2725337	2.5526409415301
(502617)	17.4	257.73559	3.90026	147.54653	7.32869	0.1366641	2.3433901415301
(502618)	16.6	106.43108	76.16109	168.12768	5.56835	0.1294948	3.0234628415302
(502619)	17.0	270.37650	119.64741	329.59217	12.00161	0.2318095	2.5572588415302
(502620)	18.0	302.18292	280.53895	157.47237	11.81163	0.2238912	2.4165601415302
(502621)	16.6	162.34955	50.14891	157.90649	6.30194	0.0329620	2.7670731415302
(502622)	17.1	193.87402	167.08302	332.45701	0.87451	0.1731984	3.0050340415303
(502623)	18.1	328.75446	248.10722	159.12940	2.36120	0.1608334	2.3797417415303
(502624)	16.7	299.45162	87.22806	309.48172	6.00537	0.0401445	2.7802861415303
(502625)	16.3	89.08310	97.75172	130.76964	19.08685	0.0507581	3.1040188415304
(502626)	16.3	129.39628	212.04807	340.41845	8.40276	0.0781536	3.0610874415304
(502627)	17.5	34.51991	16.26408	320.90574	5.40644	0.1115747	2.5293346415304
(502628)	17.0	294.57289	258.73465	133.02986	2.90632	0.0751006	2.8697837415304
(502629)	17.3	304.54298	65.78243	328.58392	4.14891	0.1015679	2.7223232415305

(502630)	17.2	67.16719	297.17787	353.73395	1.55179	0.0650942	2.6829553415305
(502631)	16.4	36.72631	154.84298	140.28693	13.39123	0.0784464	2.9398372415305
(502632)	17.3	95.78044	205.90364	52.16486	3.78380	0.0265560	2.6900730415305
(502633)	17.3	303.13151	315.20451	88.61192	7.19270	0.2176915	2.5238384415306
(502634)	17.4	322.84267	296.42301	94.15267	4.98996	0.1862843	2.5139208415306
(502635)	17.0	273.09323	89.32461	357.78675	14.09098	0.1580654	2.6516527415306
(502636)	16.3	292.38283	265.06958	155.59462	17.48753	0.1415679	2.7447895415307
(502637)	16.2	357.30769	6.11352	330.02675	13.71564	0.0705705	2.7041677415307
(502638)	17.3	230.04356	123.00065	25.17354	4.64478	0.1212154	2.4384454415307
(502639)	16.5	77.99128	172.50625	95.47690	10.64512	0.1577692	2.7527843415308
(502640)	16.0	115.26277	236.71219	337.58079	15.03859	0.1692326	3.1233523415308
(502641)	17.5	266.78611	93.83074	344.95394	11.85308	0.1053788	2.6641335415308
(502642)	16.3	266.13759	301.56808	166.76183	22.11183	0.0649059	2.6258300415308
(502643)	15.8	144.12624	61.46564	115.57755	12.41703	0.0580952	3.0729650415309
(502644)	17.2	286.84448	69.45421	25.70218	4.21872	0.1088994	2.4867158415309
(502645)	16.4	191.19003	329.32273	165.55836	20.23659	0.1360029	3.0356764415310
(502646)	16.7	250.63323	141.65225	313.33605	7.27476	0.1731761	2.7329385415310
(502647)	16.4	231.90222	305.33146	167.85680	8.97150	0.1049707	2.7980022415310
(502648)	17.7	337.66612	288.03327	150.98972	5.48140	0.0877666	2.2554899415311
(502649)	16.1	62.30356	306.18087	331.13147	26.82594	0.1205930	3.0356234415311
(502650)	16.9	167.54155	196.54842	315.99391	3.30375	0.0752193	3.1176641415311
(502651)	16.5	51.08896	350.45787	331.02907	12.60701	0.1866614	2.6476688415311
(502652)	16.2	279.36856	233.53812	162.92936	10.02702	0.0645070	3.0858541415312
(502653)	16.4	16.12540	142.91037	205.17822	5.52549	0.0610125	2.7068535415312
(502654)	15.9	120.46048	267.97157	309.45041	9.35414	0.0306900	3.0169352415312
(502655)	16.8	272.04447	277.48715	156.15766	7.05835	0.1184258	2.7500093415312
(502656)	15.8	24.73730	337.40809	332.59047	9.52924	0.0049968	3.0655223415313
(502657)	17.2	256.19803	89.45025	14.99362	5.32963	0.0771193	2.7118512415313
(502658)	16.9	239.40020	102.80628	0.62865	8.01935	0.2170812	2.7591577415313
(502659)	16.8	265.71867	280.53323	152.89792	14.12892	0.1981551	2.7953495415314
(502660)	17.1	316.25663	344.98580	66.11318	4.38913	0.0607038	2.7074853415314
(502661)	16.1	124.56204	258.31444	321.42971	5.43526	0.0739896	2.9891664415314
(502662)	17.5	236.29204	223.71806	275.82111	1.29080	0.1420079	2.6061662415314
(502663)	16.3	161.16868	198.42245	342.28714	8.55330	0.0581129	3.0756322415315
(502664)	16.2	211.44589	150.05661	337.40995	8.07044	0.0554883	3.0572185415315
(502665)	16.8	187.51628	241.95985	301.91802	5.94891	0.0528328	2.7632364415315
(502666)	16.5	172.99197	58.99396	151.54642	8.13582	0.0279623	2.7288013415316
(502667)	16.1	326.96316	231.62518	155.60402	9.60174	0.0327845	2.9855557415316
(502668)	16.5	226.36037	301.77532	158.13497	10.70312	0.2685881	2.9802056415316
(502669)	17.6	309.25913	346.62027	108.96758	3.47726	0.1529909	2.3950164415316
(502670)	17.1	198.56990	18.70834	159.14135	10.15512	0.1180572	2.7376240415317
(502671)	17.0	305.78623	270.40876	166.89725	10.06605	0.0976496	2.6028474415317
(502672)	16.3	39.41674	347.50950	347.92526	6.36872	0.0386554	2.7863094415317
(502673)	16.5	296.67718	61.15233	352.07998	14.34514	0.1464840	2.8534025415318
(502674)	16.6	136.38763	207.28655	353.11315	21.23720	0.0751605	3.1947783415318
(502675)	16.3	226.21107	303.38263	169.91750	11.61288	0.0968591	2.9879178415318
(502676)	16.2	16.85878	340.47652	343.86398	8.96363	0.0612841	3.1488896415318
(502677)	16.5	153.11049	32.13640	173.84496	13.00062	0.1745627	2.9772211415319
(502678)	16.4	240.06035	99.33985	348.90268	5.60423	0.1488722	3.0375373415319
(502679)	16.5	185.13825	170.37523	338.71340	16.73465	0.0864273	3.1632882415319
(502680)	17.0	282.36944	123.02346	336.81804	8.54639	0.1262024	2.5738936415320
(502681)	16.5	244.54302	291.95705	166.47285	16.10532	0.0806450	2.9638259415320
(502682)	17.0	223.32026	136.83880	3.84129	4.28475	0.0463452	2.8042747415320
(502683)	16.5	225.12806	58.49502	36.65150	0.69044	0.1594145	3.1435193415320
(502684)	16.7	303.21885	231.55403	158.94696	11.81110	0.0171044	2.9403976415321
(502685)	16.2	273.64037	328.11882	84.85639	8.01625	0.0651243	2.7515479415321
(502686)	16.4	177.22811	233.76868	288.35392	8.73714	0.1421878	2.9684225415321
(502687)	16.2	124.81083	267.23274	26.15076	7.57850	0.2110004	2.4779595415322
(502688)	15.9	212.35189	156.91635	355.45008	13.78613	0.1477731	2.8067404415322
(502689)	15.9	39.34179	6.15858	302.55032	25.72688	0.0847774	2.7205140415322
(502690)	16.7	258.70991	297.48660	168.96868	9.43917	0.2025398	2.6703575415323
(502691)	17.5	187.19894	78.13068	121.76712	4.47409	0.1084392	2.4097731415323
(502692)	17.2	339.10658	72.18845	273.91028	3.10261	0.0804607	2.7763370415323
(502693)	17.1	248.37505	190.11454	263.15143	1.15144	0.0479858	2.6578339415324
(502694)	17.4	263.79175	76.88594	344.96854	2.27395	0.1800320	2.6640832415324
(502695)	16.7	109.19907	131.28890	115.11811	9.63805	0.1755905	2.7401529415324
(502696)	16.9	183.73616	195.59165	327.14742	7.92037	0.0336100	2.6813028415325
(502697)	16.8	7.82775	181.19022	146.29322	6.83610	0.0728950	2.7347824415325
(502698)	17.5	332.38120	287.79740	118.07543	7.11147	0.1235545	2.4691405415325
(502699)	17.0	356.96524	334.26333	29.56337	6.63884	0.0415994	2.6907562415326
(502700)	17.8	296.03613	348.89179	112.89277	6.05607	0.1701494	2.3304103415326
(502701)	16.9	308.48969	304.79733	92.03576	5.11876	0.1072999	2.7655364415326
(502702)	16.7	136.96195	111.66766	85.43727	5.36060	0.0762720	3.0577651415327
(502703)	16.2	243.86918	353.21426	70.06259	2.82224	0.1124160	3.1704686415327
(502704)	17.1	348.38694	282.18656	86.14653	5.91817	0.0968365	2.6947021415327
(502705)	15.8	17.13200	174.89193	134.77378	11.54507	0.0547210	3.1174634415327
(502706)	17.1	32.37810	297.02588	31.06249	7.02615	0.0428133	2.7228288415328
(502707)	16.9	52.92210	254.88643	37.13310	6.16451	0.0432648	2.9133089415328
(502708)	17.6	277.16559	5.52792	95.25003	2.90837	0.1402975	2.4795647415328
(502709)	16.4	146.64404	184.16686	356.12273	10.46817	0.1657612	3.1576021415328
(502710)	16.8	300.95929	66.75586	357.66268	7.89093	0.0651854	2.6238697415329
(502711)	17.1	279.62786	330.51246	118.19258	6.05969	0.0827450	2.5911566415329
(502712)	17.0	334.39993	249.65561	127.11692	4.86103	0.0877584	2.7645864415329
(502713)	16.5	317.64137	29.22690	352.46991	9.88431	0.2411948	2.7450193415330
(502714)	17.8	287.47742	67.38369	24.40626	2.89306	0.1403600	2.4720586415330
(502715)	17.7	329.67650	277.66038	114.45984	4.15740	0.0929143	2.6554963415330
(502716)	17.0	102.88671	153.48336	104.85017	5.39217	0.0213550	2.7594950415330
(502717)	17.2	261.10740	56.06454	39.29163	5.07163	0.1087839	2.6848052415331
(502718)	16.6	305.78662	342.44681	41.60974	6.56918	0.1042796	2.9412619415331
(502719)	16.6	253.25968	306.43831	122.82067	10.11857	0.1187094	2.9792762415331
(502720)	16.7	286.50754	27.81743	40.60601	7.03548	0.1094867	2.6621199415331
(502721)	16.9	289.33101	283.14653	138.93646	17.46223	0.2032077	2.6256811415332
(502722)	17.0	285.36135	330.84418	98.71958	7.53755	0.0365720	2.7602214415332
(502723)	17.5	319.50536	338.54571	101.90612	5.69775	0.1041735	2.3589013415332
(502724)	16.4	337.70798	223.59559	135.35281	9.95774	0.1180236	2.9655285415332
(502725)	17.4	331.76773	274.89569	133.25103	8.47305	0.1542877	2.4638169415333
(502726)	16.6	219.26707	78.16581	58.16921	4.25650	0.1414609	2.7389811415333
(502727)	17.9	210.25538	83.25935	90.11842	4.89803	0.0674353	2.5690468415333
(502728)	16.6	214.34565	353.85199	139.50590	11.74928	0.2296059	2.7771983415334
(502729)	17.0	296.56895	343.38615	79.43930	4.88859	0.0908335	2.6816157415334
(502730)	16.0	205.16084	115.22686	358.69355	8.37377	0.0548465	3.1517496415334
(502731)	16.1	106.14788	201.37312	20.51029	4.99405	0.1083545	2.2353900415334
(502732)	16.4	289.44654	265.25564	143.61055	12.58898	0.1258342	2.8428586415335
(502733)	16.3	36.23691	144.05443	149.15382	16.75016	0.1758020	3.3365034415335

(502734)	16.6	62.53287	215.05368	64.60799	3.10194	0.0375283	3.0034042415335
(502735)	17.2	263.35617	302.78243	147.79408	12.12024	0.2184253	2.6257757415336
(502736)	16.7	41.09890	167.16724	137.87811	10.29845	0.0810118	2.9994881415336
(502737)	16.4	64.57126	183.28186	91.30844	5.53520	0.0750928	3.1134191415336
(502738)	16.9	262.90768	63.91901	33.09931	6.59310	0.0246118	2.7612373415337
(502739)	16.4	262.29654	296.88468	129.05679	12.05464	0.0734713	3.0138321415337
(502740)	16.0	1.66021	246.72701	96.99747	9.42531	0.0703907	2.9275745415337
(502741)	17.1	282.61237	319.74288	102.77803	9.51404	0.1909602	2.7263004415337
(502742)	16.2	63.03717	214.62688	68.23388	8.54916	0.0437631	2.9946279415338
(502743)	16.8	354.36820	268.90071	95.63119	5.65501	0.0857987	2.7725611415338
(502744)	16.9	246.40130	62.52433	51.30342	4.85717	0.0191020	2.7751656415338
(502745)	16.6	147.27066	108.51179	82.86217	4.61168	0.0717929	3.0688763415338
(502746)	17.3	309.37623	336.18346	79.65228	5.68141	0.2011200	2.5548524415339
(502747)	16.4	80.70140	173.81363	130.15596	10.36657	0.1771324	2.7201568415339
(502748)	17.1	7.11251	232.41619	120.75193	7.40825	0.0697081	2.8003782415339
(502749)	16.5	205.77155	64.25818	54.91532	5.34306	0.1372156	3.0713414415339
(502750)	16.7	350.70156	251.93633	113.79227	7.44311	0.0664046	2.7518348415340
(502751)	16.5	48.04456	291.91648	0.04134	15.50603	0.2033455	3.1445117415340
(502752)	16.8	204.59583	120.25105	39.65208	8.79767	0.1149462	2.7171681415340
(502753)	16.1	86.57817	140.63183	122.78379	3.25074	0.0561503	2.9218602415341
(502754)	16.2	31.61279	312.32423	331.36147	10.46904	0.0677704	3.1724042415341
(502755)	16.8	175.31532	28.60881	114.12998	2.22951	0.0947672	3.0676075415341
(502756)	16.5	87.90997	74.84557	172.43932	0.51345	0.1085646	3.0291823415341
(502757)	17.3	222.64860	340.33429	144.91500	8.92619	0.0927413	2.7423714415342
(502758)	16.7	124.17991	63.42939	134.32606	10.39078	0.0383755	3.0780536415342
(502759)	18.5	308.35229	0.51773	67.57815	2.37432	0.1656419	2.4061198415342
(502760)	17.6	299.97598	339.36225	81.09762	3.73180	0.0505184	2.6273040415342
(502761)	16.1	27.66670	299.28928	349.01448	10.28359	0.0620165	3.2137051415343
(502762)	17.8	317.33316	21.19789	26.34181	2.63682	0.0621144	2.5890942415343
(502763)	17.8	322.36469	261.77036	150.76193	6.75265	0.1632790	2.4299516415343
(502764)	17.2	231.41274	140.18245	337.78504	3.05568	0.0350467	2.7770579415344
(502765)	16.4	121.71069	59.09336	149.19983	10.95913	0.0824678	3.0925993415344
(502766)	17.1	59.09363	286.89903	18.31400	2.57918	0.1640610	2.7570571415344
(502767)	16.6	63.64946	273.91644	359.63905	8.74264	0.1186210	3.0913555415344
(502768)	16.4	25.98016	170.66807	133.56104	12.42456	0.0725769	3.0945838415345
(502769)	16.0	38.03996	299.74525	0.76650	13.37542	0.2581855	3.1833600415345
(502770)	17.3	285.66320	347.14238	76.98738	4.28766	0.1098361	2.7058504415345
(502771)	17.2	322.92915	287.16611	108.32071	3.29039	0.0897605	2.6610147415346
(502772)	16.5	61.93419	195.37470	81.51522	2.65695	0.1616813	3.1459301415346
(502773)	17.2	288.99991	278.96988	151.45592	11.00514	0.1133855	2.6185838415346
(502774)	17.0	75.40753	158.18759	127.02200	3.52936	0.0423072	2.7536725415346
(502775)	17.5	254.63100	73.11050	17.76837	1.92823	0.0384189	2.7666535415347
(502776)	18.1	271.81845	315.12919	135.81261	5.02190	0.1898937	2.5129464415347
(502777)	17.5	276.53972	47.31178	26.46100	3.36990	0.1901515	2.5890631415347
(502778)	16.5	54.42696	284.18461	356.98581	4.35204	0.1352717	3.0703649415347
(502779)	16.3	18.89737	310.87886	359.79446	10.05921	0.0067981	3.0163434415348
(502780)	17.3	191.15544	20.34300	143.93349	4.15728	0.0283226	2.7699088415348
(502781)	16.4	227.05775	335.87961	117.80567	10.91326	0.0302049	3.1251682415348
(502782)	16.6	326.23672	310.64161	71.51199	2.98380	0.0829942	2.9020332415349
(502783)	16.8	25.04933	236.77809	106.51280	4.49548	0.0982312	2.7686252415349
(502784)	16.6	298.28451	302.79653	125.23377	4.96210	0.0667355	2.7039614415349
(502785)	16.2	51.52408	193.75952	128.13723	6.70267	0.0400080	2.7331855415349
(502786)	16.7	11.03561	9.91170	4.34756	15.47114	0.1460548	2.5470625415350
(502787)	17.3	291.61911	202.57272	227.94469	1.41519	0.0664861	2.7287875415350
(502788)	16.1	51.84759	156.52353	156.00819	10.81027	0.1121431	3.0219257415350
(502789)	16.9	130.21064	116.38841	111.40884	4.23187	0.0494405	2.9946396415351
(502790)	16.4	255.26224	299.44179	170.71134	6.29604	0.0461018	2.7841199415351
(502791)	17.2	217.65303	264.12387	221.91815	7.76482	0.1169520	2.7048263415351
(502792)	16.0	136.98078	271.64806	276.60991	12.23249	0.2162509	3.0468592415351
(502793)	17.0	91.20835	85.10272	145.46377	10.33606	0.1916360	3.1417161415352
(502794)	17.1	181.99491	130.03727	47.78559	6.63295	0.0621325	2.6151329415352
(502795)	17.8	271.00492	80.32746	4.75832	11.19116	0.0771608	2.5539161415353
(502796)	16.5	131.30623	207.26486	27.63476	9.22548	0.1239848	2.6459209415353
(502797)	17.1	275.56035	322.29187	130.30630	4.02276	0.1901462	2.5734800415353
(502798)	16.7	123.65787	129.72929	111.51479	14.77990	0.0511086	2.6214901415353
(502799)	16.4	31.59389	288.13711	23.53097	10.08058	0.0488476	2.7512339415354
(502800)	16.3	168.21431	84.71923	106.30856	15.10898	0.0520708	2.6450184415354
(502801)	17.0	67.78822	229.35367	58.17423	12.73176	0.1788550	2.7390452415354
(502802)	16.7	328.08509	309.80577	56.09495	11.91736	0.1253630	2.7236627415355
(502803)	16.0	161.49766	106.91611	39.13180	12.14624	0.0953115	3.1311654415355
(502804)	16.4	358.85505	259.90130	56.69876	12.22522	0.0635848	3.0429832415355
(502805)	17.7	270.01013	97.82315	346.27726	22.16523	0.1137260	2.5671221415355
(502806)	17.1	152.17556	136.32599	69.65627	10.21889	0.0674604	2.6918313415356
(502807)	17.0	190.04145	101.61526	58.20812	9.10208	0.1463709	2.7456815415356
(502808)	16.1	164.33052	135.11028	24.24729	10.36228	0.0239159	2.9690854415356
(502809)	16.8	146.72019	119.10551	106.81384	13.81075	0.1461247	2.6608653415356
(502810)	16.4	307.41223	264.09699	108.82326	15.66913	0.1667943	2.8534074415357
(502811)	16.8	245.63205	280.43499	193.07212	6.38380	0.1182971	2.7505909415357
(502812)	16.3	276.50544	320.45750	125.90775	10.45567	0.0902735	2.7045803415357
(502813)	17.2	356.01662	326.05653	52.75860	6.86561	0.0240133	2.6899775415358
(502814)	16.4	237.46233	354.78224	107.31402	11.22905	0.0759816	2.9612460415358
(502815)	16.1	96.50255	217.30261	30.85774	14.88253	0.1340481	3.1490896415358
(502816)	17.5	241.49948	93.61505	34.37082	12.20342	0.2461459	2.5913999415358
(502817)	16.8	291.38701	353.75446	91.75529	9.59460	0.1080333	2.5812952415359
(502818)	15.7	93.44999	124.02659	136.84111	18.16926	0.0858245	3.1174330415359
(502819)	17.4	281.05661	349.30757	112.13340	13.20977	0.1858829	2.5164656415359
(502820)	16.3	109.81281	153.65537	118.57667	13.22180	0.0382982	2.7599927415359
(502821)	16.0	6.01683	260.17171	122.40823	15.22861	0.2071788	2.6541787415360
(502822)	16.3	316.43995	323.20379	100.41528	14.46342	0.0627300	2.7561261415360
(502823)	17.1	267.19343	286.81414	141.93565	7.83627	0.0289895	2.7482171415360
(502824)	18.2	327.73593	204.75141	210.92678	3.91582	0.1413122	2.2798478415360
(502825)	16.9	240.37932	181.21430	276.50102	12.94522	0.1423854	2.6230279415361
(502826)	17.0	210.83934	227.34254	281.25024	11.51453	0.1232255	2.5640603415361
(502827)	16.5	106.55045	341.02030	226.81269	3.81680	0.1040807	3.0661747415361
(502828)	17.8	210.36084	24.43552	155.92361	9.40492	0.1389624	2.4128913415361
(502829)	16.5	27.76827	163.58474	145.25911	15.83119	0.0869408	2.7319033415362
(502830)	17.0	192.17278	240.15946	269.74972	4.53321	0.0476705	2.6800658415362
(502831)	17.0	119.54933	44.67223	147.53792	11.14179	0.1651711	3.1395864415362
(502832)	16.0	73.25206	349.59055	308.10250	32.51322	0.2640680	2.6089215415363
(502833)	16.4	109.50151	136.22189	102.76943	11.47312	0.1763961	3.0785621415363
(502834)	16.3	269.05224	72.95669	19.42514	5.46509	0.0511772	2.7664889415363
(502835)	17.1	252.19746	6.52908	103.08488	5.30521	0.0601749	2.7709996415363
(502836)	16.8	11.80865	275.29152	86.03140	5.19989	0.1078820	2.7146894415364
(502837)	16.8	336.62389	234.96201	154.02521	4.94808	0.0857314	2.7871797415364

(502838)	16.5	223.09661	355.98868	139.63974	10.10432	0.1396949	2.7893033415364
(502839)	15.9	139.29819	100.03146	117.50691	10.07342	0.0498170	2.9828381415364
(502840)	16.9	236.67522	258.62416	215.19329	10.34577	0.1899151	2.7182336415365
(502841)	16.4	32.01719	189.59191	152.34342	13.47666	0.1354303	2.7622585415365
(502842)	16.2	18.68697	170.43215	162.88470	9.55484	0.0545182	3.0410561415365
(502843)	15.9	330.09598	221.54567	154.16698	10.11311	0.0806984	3.0503430415366
(502844)	17.3	144.13563	173.87417	67.52573	4.52843	0.0396453	2.6923709415366
(502845)	17.3	244.68639	317.14223	159.01870	9.88174	0.0866546	2.7968045415366
(502846)	15.9	80.10503	254.40475	7.72535	12.94400	0.0593549	3.1938869415366
(502847)	15.8	199.15270	251.94794	251.88365	16.20846	0.0957589	2.7481955415367
(502848)	16.8	299.76344	242.96694	170.46983	22.10879	0.0289570	2.6145511415367
(502849)	16.4	302.67156	188.90457	207.43251	13.47908	0.0049706	2.6838944415367
(502850)	16.2	65.03828	166.17854	105.78182	12.36526	0.0625042	3.0736894415368
(502851)	16.7	346.12903	114.61252	276.50819	14.38765	0.0946714	2.6583361415368
(502852)	16.9	50.87750	64.43043	234.63984	12.87316	0.1190187	2.6982437415368
(502853)	15.8	194.25004	208.56453	271.14395	8.71272	0.0961452	3.1013134415368
(502854)	17.0	268.28316	218.22962	234.15771	10.17588	0.0568005	2.6634262415369
(502855)	16.1	243.50234	196.31518	277.76261	9.52120	0.1049711	2.6940206415369
(502856)	15.4	116.44638	332.74738	233.77512	11.02196	0.0914730	3.1888913415369
(502857)	16.5	65.52550	253.34327	14.72518	11.58671	0.0242057	3.0330208415370
(502858)	16.4	96.70919	153.11898	79.35824	10.91881	0.0383724	3.1780777415370
(502859)	16.5	191.59025	53.50091	88.35385	10.72525	0.0470345	3.0615288415370
(502860)	16.7	289.66354	113.40558	325.41916	14.17229	0.1543895	2.6102943415370
(502861)	15.8	258.24704	119.19144	334.52620	21.42131	0.1543053	2.7805066415371
(502862)	16.5	185.98795	177.22218	331.84461	4.74495	0.1173331	3.0728311415371
(502863)	16.3	307.78102	84.63348	309.02464	13.55904	0.1588978	2.8585952415371
(502864)	16.9	324.55522	114.62012	285.74414	8.53318	0.1338001	2.6436500415371
(502865)	15.8	335.59732	113.68199	250.28374	7.74103	0.0535705	3.0113828415372
(502866)	16.7	131.69376	335.77483	230.63255	9.03185	0.0537598	3.0931167415372
(502867)	16.7	254.81367	131.89194	326.60467	16.55038	0.1157894	2.7915124415372
(502868)	16.8	240.71863	272.38752	199.44718	11.16502	0.0785733	2.8521964415372
(502869)	15.9	132.95036	248.32257	324.30832	16.60157	0.1219939	3.1754108415373
(502870)	16.6	47.99784	182.16845	160.73590	10.44781	0.1014909	2.8563288415373
(502871)	16.1	270.70788	259.37705	178.08061	16.43047	0.1146356	3.1761695415373
(502872)	17.0	238.47753	331.33012	160.35598	10.98319	0.1943487	2.7931283415373
(502873)	16.2	287.09816	277.95663	157.71690	11.90608	0.0759416	2.9924519415374
(502874)	16.7	229.41725	77.47285	80.41254	10.29217	0.1146633	2.7332773415374
(502875)	16.2	97.94449	168.40493	105.14374	10.98108	0.0534120	3.1180009415374
(502876)	17.0	215.71866	7.21446	149.13991	14.43006	0.0536096	2.9921604415375
(502877)	16.4	174.50649	126.33109	55.66704	17.14661	0.1526535	3.1511469415375
(502878)	17.3	257.92616	340.74446	171.05846	12.14724	0.1110321	2.5878310415375
(502879)	16.7	198.67976	334.09623	185.41420	18.05352	0.1493653	3.0461776415375
(502880)	16.9	251.10558	317.84755	169.35757	7.66647	0.1652596	2.7490615415376
(502881)	16.4	107.02423	247.90510	351.62670	13.47485	0.0715572	3.0969199415376
(502882)	16.1	196.54258	150.46725	342.72134	8.80720	0.0417878	3.1590328415376
(502883)	16.3	89.63370	123.97918	147.46791	4.39499	0.1265715	3.0958024415377
(502884)	16.3	138.18972	26.27885	173.24022	29.26643	0.1853496	3.2068274415377
(502885)	16.2	140.77226	321.72380	239.78814	9.80905	0.0477807	3.1483495415377
(502886)	16.0	220.89489	135.53114	337.67033	12.74954	0.1052515	3.1359149415377
(502887)	16.0	252.82278	135.77898	329.69517	10.32383	0.0444575	2.9708984415378
(502888)	16.4	270.95003	97.22931	350.02933	10.72631	0.0536356	2.9424087415378
(502889)	16.3	254.04810	161.41766	338.95064	12.65659	0.1078422	2.5542659415378
(502890)	15.9	8.31414	110.95207	241.55374	9.36259	0.0124223	2.9707722415378
(502891)	15.8	135.60952	194.61440	352.02242	4.51193	0.0431668	3.2230186415379
(502892)	16.3	196.39462	320.21211	182.82450	11.31412	0.0543975	3.0716302415379
(502893)	13.9	200.76194	180.94220	235.81965	8.70418	0.0546962	5.1862828415380
(502894)	17.1	218.79405	295.55396	229.96398	4.26206	0.1702302	2.6600584415380
(502895)	17.5	263.17213	32.71963	100.01530	5.91367	0.1959841	2.4045097415380
(502896)	17.4	228.65374	127.72142	24.12045	4.36464	0.0341185	2.5711988415381
(502897)	17.2	279.05764	289.18216	161.24071	9.43096	0.0663086	2.5730400415381
(502898)	15.5	220.34078	113.47032	352.81853	13.37834	0.0342951	3.1689757415381
(502899)	16.2	16.81982	344.83018	332.83070	9.87034	0.0829642	2.9966581415381
(502900)	16.8	223.89554	160.70345	357.13829	12.67876	0.0558746	2.6163527415382
(502901)	16.2	185.21220	110.73103	81.02806	15.15888	0.1235035	2.7207700415382
(502902)	16.1	238.69789	336.14936	130.26354	4.13423	0.0276748	2.9568988415382
(502903)	16.2	78.00225	168.32711	112.26585	3.20333	0.0227500	2.8693392415383
(502904)	16.2	22.96305	347.57376	7.94558	14.90765	0.0596780	2.6719234415383
(502905)	17.2	215.10188	141.71651	2.24530	4.18122	0.0526439	2.6207725415383
(502906)	17.0	80.59237	258.37351	20.28450	5.47181	0.0450064	2.6529774415384
(502907)	16.0	124.37524	207.62723	350.01846	16.35491	0.1642921	3.1450419415384
(502908)	17.2	279.18808	3.75391	57.46701	6.46697	0.0540103	2.7419002415384
(502909)	17.6	348.20979	323.45495	59.41130	6.71533	0.1252021	2.4510161415384
(502910)	15.8	85.14869	104.03261	132.47670	10.35125	0.0516983	3.1176220415385
(502911)	16.6	178.56257	166.66377	4.11662	8.78445	0.0893213	2.7921451415385
(502912)	17.1	314.69384	312.01980	83.00072	7.36183	0.0406048	2.6861360415385
(502913)	16.7	102.07268	239.17448	348.39636	21.85585	0.1815120	3.1404805415386
(502914)	17.3	159.79928	180.83020	12.77505	9.23737	0.0801323	2.7674982415386
(502915)	16.7	323.87665	19.95902	5.77073	12.94075	0.0598985	2.6929843415386
(502916)	16.1	68.48542	273.36198	342.61299	13.96058	0.1627443	3.2175900415386
(502917)	16.6	90.28470	73.24796	157.69881	27.12601	0.0605626	3.1499270415387
(502918)	16.9	21.77419	164.16258	169.12007	5.36251	0.0501375	2.7273930415387
(502919)	17.0	286.69412	263.29271	161.01533	12.94297	0.1421349	2.6393549415387
(502920)	16.8	147.88084	11.44637	163.36026	10.59446	0.1028243	3.1391942415387
(502921)	16.5	61.33952	284.12954	350.89862	7.01648	0.1257184	3.0635153415388
(502922)	17.6	324.85547	238.85417	156.61661	6.58546	0.0470881	2.6779606415388
(502923)	16.0	144.92317	191.89811	345.01044	11.05603	0.0260699	3.1363001415388
(502924)	17.0	309.93398	62.62123	337.62143	3.61562	0.0726467	2.7494786415389
(502925)	17.0	201.88796	355.50966	161.78589	7.12646	0.0408778	2.7386814415389
(502926)	16.9	359.54899	327.27478	31.71709	2.69037	0.0888889	2.7070990415389
(502927)	16.0	23.44635	321.10634	349.99890	15.39982	0.0770039	3.0431210415389
(502928)	16.4	264.12866	280.55043	130.54061	9.98566	0.0787346	3.1215743415390
(502929)	17.0	329.93540	349.75884	39.30631	5.58549	0.0510674	2.7301742415390
(502930)	17.1	264.20781	346.85868	100.90240	4.90866	0.0666567	2.7712204415390
(502931)	17.0	312.14622	282.21502	117.14465	6.35295	0.0728386	2.7787464415391
(502932)	16.7	23.51439	339.85680	355.33580	4.36976	0.1268803	2.7984452415391
(502933)	16.7	338.99879	9.45101	8.64164	6.03298	0.0905882	2.7161702415391
(502934)	17.7	261.43984	96.60177	351.53136	12.36102	0.2439890	2.6091482415392
(502935)	17.1	70.91108	259.51385	29.01143	4.71407	0.0392239	2.7779819415392
(502936)	16.5	178.14574	185.69253	348.79520	15.26762	0.0710763	2.8495516415392
(502937)	17.2	51.98558	267.81264	56.57728	3.87896	0.0390355	2.5756139415392
(502938)	16.6	231.74564	259.07489	190.60342	2.55705	0.0947233	3.0380243415393
(502939)	17.0	237.21022	308.20146	173.21535	13.11424	0.1827171	2.6583262415393
(502940)	17.1	259.04772	272.13017	173.05342	6.61780	0.0311047	2.8871796415393
(502941)	17.3	258.49923	108.95381	349.52076	2.44328	0.1078615	2.6997620415393

(502942)	17.5	297.14088	202.27599	220.43265	5.31160	0.2132628	2.5408264415394
(502943)	16.2	28.27139	53.14997	245.15179	7.21901	0.0351777	3.1218299415394
(502944)	16.6	60.45153	31.57116	233.73077	7.61872	0.0245740	3.1049756415394
(502945)	16.7	48.29056	122.95854	167.36964	9.95598	0.0646419	3.0225808415395
(502946)	15.4	138.20055	163.49448	39.01056	28.71127	0.1457024	3.2125996415395
(502947)	15.8	204.54960	76.36882	86.28357	17.81989	0.0671535	2.8809369415395
(502948)	15.8	226.09624	24.69469	89.68525	19.85131	0.0276892	3.2272901415396
(502949)	16.2	123.36443	255.07561	336.27149	24.23536	0.1006860	2.7703670415396
(502950)	16.6	78.23562	274.52980	21.07533	8.32387	0.0858466	2.5349562415396
(502951)	16.5	238.04002	105.40433	15.40615	13.32503	0.1800220	2.7617682415396
(502952)	16.5	219.43126	17.01212	123.26992	9.55686	0.0759639	2.7170543415397
(502953)	16.3	237.83937	67.93751	38.42646	8.12347	0.1886487	2.7433816415397
(502954)	16.1	221.10738	188.63480	322.73613	13.64038	0.1036618	2.7758049415397
(502955)	17.1	223.00411	307.46315	190.85464	7.72604	0.1753215	2.7822637415398
(502956)	16.7	116.01456	173.84495	33.70710	1.96959	0.1237309	3.0914859415398
(502957)	16.9	201.18523	63.08449	76.84568	5.43524	0.0084928	2.7889349415398
(502958)	16.2	104.13710	215.02210	352.02076	10.72617	0.0650511	3.2405950415399
(502959)	16.7	3.42001	185.91232	155.62974	6.73031	0.0680313	2.8145869415399
(502960)	17.4	278.73181	315.94113	111.38154	5.01699	0.0884895	2.7940488415399
(502961)	17.8	337.56441	259.98693	148.57160	6.83731	0.1203842	2.4374240415399
(502962)	17.2	90.70560	149.14201	137.75128	2.62442	0.0383721	2.6298615415400
(502963)	16.9	160.57014	157.80575	8.33417	0.41144	0.0377112	3.0131792415400
(502964)	16.6	144.16878	24.08018	196.16606	6.53569	0.1505479	2.7995792415400
(502965)	16.5	78.13540	43.24446	217.92030	1.44997	0.0833155	3.0889900415400
(502966)	16.8	137.49672	205.64123	14.79667	11.27164	0.0985288	2.7370477415401
(502967)	16.6	79.76035	308.45415	324.09880	14.39237	0.1105017	2.6443467415401
(502968)	18.5	298.23807	276.24042	161.33770	2.12753	0.2185344	2.3164750415401
(502969)	16.5	331.92711	299.75377	102.60895	9.18798	0.1158118	2.7427682415401
(502970)	15.9	107.90091	242.19542	25.06817	10.52440	0.0707558	3.0536257415402
(502971)	15.7	329.96413	292.72739	98.55866	13.13407	0.0925519	2.8880285415402
(502972)	16.4	274.57115	248.45640	192.41302	9.55238	0.0823828	3.1463660415402
(502973)	17.0	246.41455	105.37265	43.11307	3.38655	0.0910056	2.6900164415403
(502974)	15.7	185.39684	329.95041	194.87164	21.80456	0.0731523	3.3721718415403
(502975)	15.9	26.30468	312.45226	33.62546	9.96429	0.0900755	3.1719607415403
(502976)	16.1	25.99412	150.39649	200.30482	18.38329	0.0788573	3.1318613415404
(502977)	15.7	159.24987	196.95282	319.76308	14.36028	0.1116050	3.1187478415404
(502978)	16.4	259.68652	286.11961	157.60248	22.19575	0.0616771	2.7004833415404
(502979)	17.0	291.28044	136.00619	269.78134	11.66943	0.1179383	2.7605287415405
(502980)	16.3	81.18147	17.83891	232.40686	10.64092	0.0650750	3.0825563415405
(502981)	16.0	233.50804	189.06953	254.65825	10.47794	0.0493801	3.0915420415405
(502982)	16.3	150.74178	289.83870	261.58129	10.13868	0.0729307	3.1466386415405
(502983)	16.3	353.75410	346.27550	28.09669	11.35303	0.0442767	3.0514448415406
(502984)	17.7	266.51381	283.26424	188.24871	11.23583	0.2607007	2.6433853415406
(502985)	16.8	257.41946	93.09150	36.37101	6.06267	0.0204220	2.8501552415406
(502986)	16.9	236.21416	86.61059	58.06482	5.86839	0.1076729	2.8113725415406
(502987)	17.3	235.16747	111.55489	33.82074	8.21085	0.1693489	2.7861253415407
(502988)	15.9	120.39505	223.76697	25.58498	13.90867	0.0899694	3.1879229415407
(502989)	15.8	358.17558	168.96026	201.91096	16.81518	0.0283781	3.1920157415407
(502990)	16.6	290.77099	253.45888	199.14150	12.94129	0.0487963	2.9263098415407
(502991)	17.4	272.29483	286.79185	197.22238	11.03729	0.1404414	2.6781739415408
(502992)	16.7	216.12824	197.49607	267.39085	8.77607	0.0792773	3.0749266415408
(502993)	16.2	109.60451	264.28717	321.40211	13.33701	0.0354766	3.0899091415408
(502994)	16.5	285.46676	94.51118	332.64751	13.79923	0.2160488	2.7625444415408
(502995)	15.8	246.91089	189.06970	273.75553	7.45966	0.0285039	3.0166722415409
(502996)	16.3	204.06601	232.90670	259.94892	8.24946	0.0485982	3.1696099415409
(502997)	16.7	7.71355	97.52373	282.55424	9.60976	0.2066999	2.6184803415409
(502998)	16.4	268.34295	115.89986	328.98313	10.62285	0.0942455	2.9047450415409
(502999)	15.8	242.60482	129.01480	332.87865	13.37640	0.0723215	3.0436436415410
(503000)	15.7	132.83532	236.54028	338.01433	12.80088	0.1009311	3.1731896415410
(503001)	16.5	242.26699	224.52319	227.19434	8.53008	0.0413069	3.1845064415410
(503002)	16.3	36.42415	341.31104	342.78028	16.18970	0.0919462	3.0366573415411
(503003)	16.3	184.34378	293.25671	221.78779	8.48949	0.0479142	3.1755536415411
(503004)	16.3	317.59558	126.02099	286.56815	7.42734	0.1215488	2.7440951415411
(503005)	17.0	221.47074	258.07800	249.19722	7.92812	0.1642810	2.7584418415411
(503006)	15.9	50.58987	59.35596	250.46351	9.52199	0.1010071	3.1044129415412
(503007)	16.5	152.85321	263.53303	306.92337	9.12960	0.0537524	2.9754863415412
(503008)	16.5	304.49380	103.95247	315.10686	4.84518	0.0571375	2.8956784415412
(503009)	15.7	182.43887	308.34385	213.09809	8.70211	0.0359510	3.1719110415413
(503010)	16.5	248.57360	238.66506	237.13786	8.46229	0.1658878	2.7637123415413
(503011)	15.8	348.40158	42.25710	336.54588	11.48154	0.0421316	2.9378055415413
(503012)	17.2	273.24931	143.81295	344.74336	7.19756	0.0858288	2.5357744415414
(503013)	16.1	146.57680	201.58891	6.15252	27.48654	0.0939660	3.1434966415414
(503014)	13.9	194.40861	140.77636	291.22510	3.67700	0.0338458	5.2292074415414
(503015)	17.5	269.67783	235.33369	238.49322	3.94125	0.2436388	2.5309683415414
(503016)	16.0	100.16271	267.20445	357.66006	9.83034	0.0609949	3.0426883415415
(503017)	16.1	28.89175	4.67970	342.74427	20.45317	0.0848094	2.8042805415415
(503018)	16.2	238.00793	299.85065	180.21884	9.40917	0.0499657	3.1112123415415
(503019)	15.7	129.00922	225.44209	357.71497	16.49351	0.1153493	3.1420012415416
(503020)	16.2	274.88280	228.97948	194.87972	9.73779	0.1224942	3.0228395415416
(503021)	16.1	33.10985	237.15898	91.17074	6.70483	0.0411563	2.7865476415416
(503022)	16.1	150.46630	162.98966	17.08363	8.40151	0.0826805	3.1059302415417
(503023)	16.2	276.24368	89.17849	7.08337	14.47928	0.0566599	2.6955749415417
(503024)	16.8	252.09605	79.14959	31.91824	9.12017	0.1107358	2.7735317415417
(503025)	16.0	225.93891	326.85302	153.31243	11.13202	0.0713742	3.0139464415418
(503026)	16.1	218.90311	138.24404	327.39227	15.07782	0.0713906	3.1329921415418
(503027)	16.1	312.41449	3.32019	27.90935	11.61888	0.0857601	3.1764474415418
(503028)	16.6	257.82076	75.52099	23.97842	9.35232	0.0856132	2.9277715415418
(503029)	16.3	26.12753	150.36074	177.79594	8.73995	0.0693450	3.1733347415419
(503030)	16.3	289.01821	8.55408	51.70447	4.49649	0.1332166	3.0091655415419
(503031)	16.9	143.45516	170.20952	47.38001	1.45035	0.1083455	3.0642513415419
(503032)	16.7	274.65139	255.82276	190.26231	10.88790	0.0868548	2.9173549415420
(503033)	16.9	229.08163	326.93544	165.78244	5.99697	0.1157131	2.8808477415420
(503034)	16.5	183.00814	122.33829	46.54909	5.23310	0.0800068	3.0836624415420
(503035)	17.0	257.86748	113.92004	20.83125	12.47142	0.1292085	2.5862313415420
(503036)	17.3	283.61205	75.71362	31.47566	8.61511	0.1118362	2.5807584415421
(503037)	16.3	298.74616	46.88132	32.31395	10.65764	0.1456185	2.6601666415421
(503038)	17.0	302.85983	262.02987	175.57724	16.48422	0.1897894	2.6222555415421
(503039)	16.6	55.68958	251.69700	63.50995	6.32028	0.1287098	3.0772000415422
(503040)	16.3	323.08145	324.27579	49.61309	5.58433	0.0110412	3.3860840415422
(503041)	16.9	251.35645	42.99440	69.14986	2.87023	0.0744783	2.9190838415422
(503042)	16.2	272.40157	251.06339	179.83393	15.73268	0.0859908	3.1828761415422
(503043)	16.2	57.32802	273.85465	23.80219	4.71202	0.0842180	3.2476026415423
(503044)	16.6	209.98864	43.00708	105.26744	1.99169	0.1017368	2.9828740415423
(503045)	17.3	244.94037	333.89652	185.91947	14.92367	0.0955206	2.5541493415423

(503046)	15.7	158.14836	144.23494	51.81812	11.41268	0.0521988	3.1540484415423
(503047)	16.3	328.34623	15.03608	50.27710	11.52907	0.1314386	2.6138063415424
(503048)	16.4	55.66706	138.04852	175.18897	15.83674	0.0777326	3.1077039415424
(503049)	17.2	214.84476	112.75603	51.97583	6.07491	0.1178615	2.7849676415424
(503050)	17.8	269.05474	345.44684	122.45214	5.56819	0.2618126	2.6074061415425
(503051)	15.9	283.87346	271.99228	154.77889	8.73578	0.0071253	3.2561803415425
(503052)	17.1	303.23376	8.89249	74.28180	2.98149	0.1108884	2.6972150415425
(503053)	15.9	335.80107	339.74226	44.25616	10.02400	0.0521469	3.1339531415425
(503054)	16.0	176.91834	343.57781	191.82190	18.62468	0.0982040	3.1402252415426
(503055)	16.8	113.50499	190.46460	76.29014	3.13234	0.0195695	2.8859595415426
(503056)	16.4	168.78343	151.93493	37.65853	8.72893	0.0831436	3.0594063415426
(503057)	16.6	320.79086	342.28435	78.99870	5.33209	0.0561174	2.7619140415427
(503058)	17.0	247.57761	84.04000	57.47362	12.74151	0.1593954	2.6452005415427
(503059)	16.6	274.65760	303.26434	158.90120	12.16352	0.1495375	2.7697836415427
(503060)	16.0	272.95404	185.62397	256.20948	5.59834	0.0408785	2.9169197415428
(503061)	17.2	16.37523	315.81510	41.53593	3.62248	0.0460215	2.7948276415428
(503062)	16.3	148.89067	225.91959	332.35552	14.19421	0.1609406	3.0728791415428
(503063)	15.9	159.80449	224.62601	308.01688	8.35409	0.0458958	3.1724017415428
(503064)	17.4	234.55589	315.32611	194.41069	11.17833	0.1271139	2.6097429415429
(503065)	16.5	149.26492	323.70957	221.23016	3.64131	0.0280723	3.1284466415429
(503066)	15.9	287.42337	337.71788	98.41666	6.88242	0.1274123	2.8932363415429
(503067)	17.0	327.21727	313.57385	104.07739	6.43942	0.1184553	2.7199529415430
(503068)	16.7	259.84755	21.56706	83.62520	10.46213	0.1848401	2.8040825415430
(503069)	15.5	337.37692	290.78610	93.09102	11.69398	0.1143229	3.1117527415430
(503070)	16.8	224.22022	324.69258	155.29613	8.37719	0.0921919	2.9767970415430
(503071)	16.2	273.79294	276.51830	161.96716	9.18835	0.1639426	2.7958384415431
(503072)	16.3	98.01434	163.69900	88.28387	2.48629	0.1220727	3.1998358415431
(503073)	16.9	332.80664	252.38445	148.63507	7.04885	0.0427065	2.7661848415431
(503074)	16.4	236.47462	309.94995	155.22758	11.42438	0.0887180	3.0748606415432
(503075)	16.4	296.19143	5.05873	71.75047	4.93473	0.0704739	2.7477646415432
(503076)	16.5	124.79933	205.59548	34.41900	6.45258	0.2359529	3.0751854415432
(503077)	17.0	288.95206	348.20799	79.77654	4.97882	0.0751422	2.7459494415432
(503078)	16.2	169.01409	100.31107	95.70283	4.88440	0.0326635	2.7738272415433
(503079)	16.7	214.60360	35.86360	70.71750	1.90079	0.1433634	3.0782121415433
(503080)	16.2	184.40295	36.75954	102.78053	2.26880	0.0369285	3.2005689415433
(503081)	16.4	182.07655	27.65482	159.87148	14.74847	0.1027379	2.7778737415434
(503082)	17.2	253.66938	354.64478	133.37645	7.64203	0.0781136	2.5947622415434
(503083)	16.4	308.43135	274.46727	152.35486	13.08831	0.2592495	2.6806181415434
(503084)	16.9	273.01374	41.41135	69.02422	12.10288	0.1138539	2.6944781415435
(503085)	16.3	172.18825	353.71448	181.95937	13.53148	0.0892817	3.1127071415435
(503086)	15.5	94.44214	163.14394	102.17780	23.71555	0.0799697	3.0903333415435
(503087)	17.2	216.49354	58.89534	107.16878	9.73831	0.0750893	2.5971626415435
(503088)	16.5	110.39312	167.20565	97.53670	12.20521	0.1145988	3.1887197415436
(503089)	15.6	0.40336	281.22307	95.03720	13.37318	0.0614871	3.0807389415436
(503090)	16.1	42.35234	279.31186	59.66153	16.71175	0.0300767	3.0596418415436
(503091)	15.7	164.13169	110.32396	99.87820	11.69864	0.0389954	3.0959573415436
(503092)	16.5	175.55367	13.94568	187.10957	13.92656	0.1334532	3.0580274415437
(503093)	16.3	221.58239	6.60758	138.83787	10.45009	0.1666345	3.0458184415437
(503094)	17.0	272.77952	338.26536	151.87463	12.78368	0.2315016	2.5580539415437
(503095)	16.4	191.42276	91.69522	92.36145	10.05362	0.0292047	3.0796323415437
(503096)	17.9	268.53099	242.78905	59.84500	22.54662	0.0909535	1.8620654415438
(503097)	15.9	164.48724	154.15136	31.28883	11.44354	0.0246405	3.1263673415438
(503098)	16.3	339.30530	266.39299	138.70311	7.70023	0.0969416	2.6836303415438
(503099)	16.7	235.57317	99.89286	48.02402	12.34158	0.1356213	2.6402771415439
(503100)	16.1	23.18757	192.23141	143.67255	11.20535	0.0897832	3.1255166415439
(503101)	17.3	261.80455	25.50896	96.74045	6.10245	0.0902882	2.6757787415439
(503102)	16.0	284.11600	1.40771	61.62835	10.16378	0.1063983	3.0709216415440
(503103)	16.9	290.86704	326.64965	134.20561	7.16937	0.0782242	2.6257653415440
(503104)	16.1	246.74013	307.85688	147.82667	10.80028	0.0386592	3.2264080415440
(503105)	16.0	25.32202	302.05448	44.81005	9.16554	0.0336553	2.9043014415441
(503106)	16.0	83.26511	165.11573	103.96160	6.25223	0.0867256	3.2563205415441
(503107)	16.8	348.29578	241.11292	165.32534	10.41467	0.1302119	2.6239407415441
(503108)	16.5	35.55982	179.17045	149.20222	11.31075	0.0391049	3.0584552415441
(503109)	16.3	244.08562	328.77680	132.71728	9.16861	0.0935833	3.1182214415442
(503110)	16.3	343.17451	293.24629	81.88508	10.21054	0.1132486	3.0972713415442
(503111)	16.4	259.31743	291.69794	162.50515	16.56195	0.0327058	3.0973995415442
(503112)	17.4	251.25928	50.04600	87.90407	7.75004	0.2292930	2.5423645415442
(503113)	16.0	348.35911	276.98152	95.58199	11.13864	0.1534297	3.0923916415443
(503114)	15.7	46.20097	254.77584	67.82669	11.85114	0.1304528	3.1262978415443
(503115)	16.5	185.20977	51.70497	128.00507	7.53906	0.1491380	2.9729678415443
(503116)	16.4	80.71824	201.29452	85.30739	11.12835	0.0727918	3.0456700415443
(503117)	15.5	12.08510	265.65138	83.09487	11.35114	0.1372030	3.1613688415444
(503118)	17.0	243.89378	88.05777	64.80299	8.28836	0.1324863	2.5983467415444
(503119)	16.5	149.89249	145.20921	57.23999	4.75353	0.1310116	3.1477184415444
(503120)	16.1	84.70953	92.40275	184.69462	23.99216	0.0280620	2.9835530415444
(503121)	16.4	273.01103	289.46291	173.51993	9.10630	0.0605076	3.1758444415445
(503122)	15.9	202.09767	22.61733	110.41433	6.50325	0.1066268	3.1797530415445
(503123)	16.1	21.42011	138.03814	217.64458	5.23795	0.0476945	2.7969644415445
(503124)	16.7	131.42464	308.61682	297.41247	3.35377	0.0141366	2.7934447415446
(503125)	17.2	211.73141	134.21851	28.18620	9.47688	0.2029196	2.7752435415446
(503126)	17.4	237.70568	259.10695	30.58674	20.04389	0.0833915	1.9506261415446
(503127)	16.9	330.18200	219.35008	152.51374	11.93644	0.1184030	2.7531532415447
(503128)	16.0	156.82617	215.28497	312.83995	22.98635	0.1312273	3.1438425415447
(503129)	16.6	322.05766	117.87330	294.03739	12.27212	0.1497031	2.6369359415447
(503130)	16.0	223.99175	186.95631	275.28889	9.65669	0.0415927	3.0484093415448
(503131)	15.7	64.13962	16.97257	261.19533	8.18252	0.0248964	2.9730255415448
(503132)	15.7	84.97024	312.32751	308.63163	12.50010	0.1756551	3.2008687415448
(503133)	16.3	283.27549	106.72316	299.93482	9.16532	0.0495484	3.0876179415449
(503134)	16.3	261.71484	107.52268	333.35288	6.99933	0.0913632	3.1092629415449
(503135)	15.9	37.23259	313.85460	2.05956	12.84678	0.1191292	3.0673839415449
(503136)	15.6	37.75123	176.53830	140.01440	15.36375	0.0466647	3.1540139415449
(503137)	16.7	273.58767	24.58855	83.95724	7.13359	0.0131037	2.8361714415450
(503138)	17.1	301.61291	75.56617	346.42741	1.46406	0.0567377	2.8698171415450
(503139)	16.2	21.79906	143.65170	194.49656	9.41557	0.1086650	3.0587603415450
(503140)	16.5	55.29082	108.65094	190.69840	1.56525	0.0378818	3.0904084415450
(503141)	15.5	271.05709	53.34054	14.55254	13.76488	0.0647639	3.1598413415451
(503142)	16.9	211.00227	101.81799	32.46594	2.21628	0.1171004	3.0308829415451
(503143)	16.9	294.65147	246.14192	183.81202	11.96541	0.0278609	2.9495500415451
(503144)	17.0	268.41186	292.28103	168.56142	2.19922	0.0226907	2.8723534415452
(503145)	16.4	142.26952	48.95433	154.15662	1.61644	0.0612324	3.2126332415452
(503146)	16.8	314.21951	260.99955	152.26428	2.58108	0.0644466	2.8677469415452
(503147)	16.5	237.01156	8.05797	105.75462	14.92101	0.2365734	3.0659626415452
(503148)	16.3	277.01530	341.97069	99.60742	9.99053	0.0719757	3.0987405415452
(503149)	15.8	259.68423	15.93700	84.60904	17.00720	0.0728646	3.1128299415453

(503150)	16.0	150.63605	106.82970	108.96831	12.48173	0.0198346	3.1510450415453
(503151)	16.4	52.90275	223.33235	96.75550	10.37677	0.0371308	3.0200197415453
(503152)	16.0	145.14123	7.01129	190.37738	8.93714	0.0152065	3.1561481415454
(503153)	16.2	95.78463	244.42475	14.26678	17.65379	0.0290689	3.1259275415454
(503154)	16.9	269.81043	90.98431	12.10863	1.94218	0.0190447	2.8662848415454
(503155)	16.6	249.10903	338.24300	112.42665	2.12037	0.1505762	3.0721041415455
(503156)	16.2	22.65001	181.40095	161.25192	16.03516	0.0731714	3.1615991415455
(503157)	16.6	191.78830	88.32544	88.95201	11.42129	0.0511808	2.9873596415455
(503158)	16.3	4.13817	237.77607	123.89743	12.60061	0.0941166	3.1316320415455
(503159)	16.4	257.53680	281.90753	170.18283	14.59580	0.0877836	3.1793947415455
(503160)	16.2	164.93185	46.08789	203.11755	34.07845	0.2090856	2.7979361415456
(503161)	15.6	47.22679	236.95086	58.60408	10.76970	0.0623949	3.4170773415456
(503162)	16.3	181.93169	99.39532	69.42452	8.58192	0.0916683	3.1230548415456
(503163)	16.5	344.86209	259.60113	137.80439	6.15790	0.0386710	2.7741118415457
(503164)	15.7	343.44047	312.42160	56.13754	9.94114	0.0892553	3.1472899415457
(503165)	16.5	342.07763	245.04483	139.45144	7.56021	0.0917984	2.9580413415457
(503166)	16.6	255.40757	33.22452	84.82380	6.99704	0.0216042	2.8675884415457
(503167)	16.7	136.53106	76.42908	146.50171	10.04980	0.0853727	3.0930361415458
(503168)	16.3	288.71196	10.97111	66.67262	10.18162	0.1784854	2.7489869415458
(503169)	16.1	62.45053	237.60323	67.42003	11.79316	0.0776718	3.0168030415458
(503170)	16.6	251.86611	333.36485	159.16351	13.60015	0.1028357	2.6876438415459
(503171)	16.0	333.99571	301.56686	84.30608	11.14757	0.0719580	3.0256592415459
(503172)	16.4	254.53917	0.41846	122.92763	4.77905	0.0476419	2.8073536415459
(503173)	15.9	211.87485	307.29669	188.86272	25.27072	0.0930861	3.1514540415459
(503174)	16.5	266.11881	313.53159	153.73433	14.63493	0.1720699	2.7338363415460
(503175)	16.3	203.28121	9.46095	126.52393	6.65466	0.1615473	3.1873402415460
(503176)	16.0	305.49872	279.62632	157.46689	9.07815	0.1438565	2.7257521415460
(503177)	16.9	118.37358	195.99519	60.17312	11.22054	0.0664437	3.0154495415461
(503178)	16.9	209.26314	64.71566	85.67168	7.70708	0.1488982	2.9721645415461
(503179)	15.5	28.51331	158.34390	187.41500	26.94554	0.1158387	3.1224086415461
(503180)	16.3	225.83646	301.36967	173.50584	13.53228	0.1373185	3.0958380415461
(503181)	16.4	39.87087	260.21403	62.15358	15.02988	0.0558032	3.0663481415462
(503182)	16.1	178.13328	124.18017	49.01095	10.96378	0.0654959	3.1424462415462
(503183)	16.4	25.72586	215.57022	156.12046	14.11263	0.1720700	2.7708928415462
(503184)	16.2	20.61857	194.13186	154.37297	11.04151	0.0484593	3.0556705415462
(503185)	16.1	165.53748	132.93128	75.52223	7.21836	0.0146882	2.8921743415463
(503186)	16.2	334.00829	316.89485	75.10121	16.27384	0.0558457	3.0283671415463
(503187)	16.2	175.39000	313.38961	223.87197	9.55858	0.1616849	3.1729476415463
(503188)	16.4	275.31337	183.91646	266.34460	11.39599	0.1254131	2.6952965415464
(503189)	16.5	199.22669	230.92766	272.64239	9.64237	0.1335861	3.0179805415464
(503190)	16.1	54.05799	26.97384	270.28427	9.08730	0.0231392	3.0608693415464
(503191)	15.8	40.28329	335.48047	333.68350	14.87007	0.0074194	3.1031087415464
(503192)	16.2	81.05645	11.74384	259.57327	10.04591	0.0286466	3.0853163415465
(503193)	15.9	228.69349	222.25828	279.37115	9.31723	0.0957018	2.7723103415465
(503194)	16.2	215.15423	202.40321	292.14014	9.11948	0.0307211	3.0551104415465
(503195)	16.2	120.21824	356.51595	266.65717	12.07983	0.0917434	2.7572351415466
(503196)	17.3	246.24384	102.83201	48.78729	20.03079	0.2849434	2.4282857415466
(503197)	18.0	336.65897	23.64331	179.09923	23.09746	0.0432942	1.8913176415466
(503198)	16.2	225.75580	103.42085	9.69458	7.20664	0.0618072	3.0410005415467
(503199)	16.3	184.02994	341.79298	164.12377	14.28136	0.1811214	3.1284868415467
(503200)	15.9	71.42565	221.59386	99.05195	10.32524	0.0686096	3.1065394415467
(503201)	16.4	239.02606	28.18075	105.14458	15.44133	0.1327676	2.5634113415468
(503202)	16.1	127.00216	47.88332	189.86016	10.61394	0.0166505	3.0526484415468
(503203)	16.2	153.12296	20.37264	182.83157	6.40898	0.0781022	3.1693359415468
(503204)	17.1	256.38102	92.87603	42.27732	7.74492	0.1239980	2.6511188415468
(503205)	16.4	219.94573	91.47080	42.36837	10.04464	0.0740317	3.1277857415469
(503206)	16.1	46.72032	93.08126	199.66303	17.82520	0.0294460	3.5362985415469
(503207)	16.2	200.70015	322.89625	186.13236	20.08669	0.1319197	3.1316384415469
(503208)	16.2	192.34242	148.40894	34.74789	16.10118	0.1557024	2.8826401415470
(503209)	16.2	68.19294	251.75357	59.87656	12.74796	0.0103529	2.9301378415470
(503210)	16.0	0.78975	196.69892	171.19267	10.72955	0.0601620	3.1057250415470
(503211)	16.3	128.54397	201.14936	52.57414	10.85422	0.0578949	2.9878734415471
(503212)	15.7	309.17421	217.40145	193.38122	17.50668	0.1154278	3.2030078415471
(503213)	16.6	242.03371	61.64206	80.23887	11.22212	0.0405927	2.8700948415471
(503214)	15.6	91.98162	195.50135	76.96986	11.78642	0.0556395	3.2517417415471
(503215)	15.9	134.05506	55.82932	187.03730	15.24932	0.1333390	3.1261483415472
(503216)	15.8	234.52240	287.06942	199.49577	26.48673	0.1784418	3.0587166415472
(503217)	17.6	254.83511	337.59174	166.55366	4.57911	0.1836802	2.5914465415473
(503218)	15.9	162.07555	21.55103	177.27174	11.16952	0.0119860	2.9937248415473
(503219)	15.8	176.01905	137.76095	54.04325	12.40154	0.1342229	3.1044585415473
(503220)	16.1	124.36624	205.16574	39.89319	17.60530	0.1410579	3.2047874415474
(503221)	16.3	188.29683	91.92233	70.05741	9.19894	0.1131625	3.1162195415474
(503222)	15.6	64.69334	235.45735	73.53898	11.72110	0.1153632	3.1086496415474
(503223)	16.8	214.12411	160.34930	327.89543	0.30453	0.1650754	3.2017723415474
(503224)	16.3	180.90306	321.38774	213.86951	11.04073	0.1612239	3.1327399415475
(503225)	16.2	293.41658	235.76962	198.90106	8.93532	0.0612797	3.0865147415475
(503226)	17.0	203.11410	9.91630	161.55245	2.88819	0.0961887	2.9853813415475
(503227)	15.5	62.37618	178.34486	99.02774	4.52488	0.1419635	3.9893704415476
(503228)	16.7	308.00095	28.63700	50.81879	14.32163	0.2290200	2.6879414415476
(503229)	16.4	226.28084	286.25216	231.49865	6.51798	0.1011818	2.8455655415476
(503230)	15.2	9.38476	302.80747	53.89482	27.69462	0.2203157	3.2098082415476
(503231)	16.3	153.64464	127.89691	83.85969	10.45761	0.0519458	3.1086246415477
(503232)	17.2	250.41024	341.42748	139.15120	10.04266	0.2253384	2.7806007415477
(503233)	16.6	169.41329	58.43972	136.11358	12.35841	0.1057943	3.1357939415477
(503234)	15.2	28.28184	85.26114	218.67343	7.88883	0.1078469	3.9799599415477
(503235)	16.6	199.79185	41.07843	129.78657	5.15779	0.0759639	3.1057176415478
(503236)	15.5	59.96561	118.67626	205.47725	17.11208	0.0982638	3.1532195415478
(503237)	16.0	167.82658	233.62617	317.55253	3.65814	0.1062076	3.2161911415478
(503238)	16.4	190.71086	166.96416	17.00502	11.11331	0.1004761	3.0439725415479
(503239)	15.5	194.71157	136.84191	35.70879	17.00315	0.0670323	3.1479799415479
(503240)	17.4	261.84420	128.37649	344.94421	3.97827	0.2243086	2.5784918415479
(503241)	15.8	122.86111	9.29204	244.38152	9.82944	0.0658121	3.0465685415479
(503242)	16.8	258.62020	82.64856	53.07888	13.74160	0.1060684	2.6589767415480
(503243)	15.5	103.95899	174.58777	83.72926	19.64337	0.0203556	3.1833161415480
(503244)	16.0	111.11978	72.29761	199.60821	10.50156	0.1669221	3.1103327415480
(503245)	15.8	195.34189	34.17523	121.93232	14.52073	0.2221483	3.0001956415481
(503246)	15.7	99.19127	104.69674	189.67060	12.91322	0.1208417	3.2219353415481
(503247)	15.7	261.10869	20.14405	94.44189	18.04708	0.0883485	3.2137065415481
(503248)	16.4	303.32763	326.33089	111.01637	13.94700	0.1246519	3.1708092415482
(503249)	16.4	161.70138	59.28244	160.10603	12.09641	0.1111550	3.2036285415482
(503250)	16.2	67.56459	192.56072	139.24657	10.92918	0.0554549	3.1876246415482
(503251)	15.9	248.83652	339.78980	159.97839	10.87706	0.0629313	3.1618042415482
(503252)	16.5	168.49425	30.83461	184.49513	16.86869	0.1349798	3.2087446415483
(503253)	15.6	57.59482	50.31670	245.35100	10.11049	0.2316677	3.9608383415483

(503254)	17.6	239.18100	322.91261	245.70704	2.65599	0.1725525	2.4599464415483
(503255)	15.3	30.38562	259.02826	94.06820	17.29991	0.0734313	3.1935725415483
(503256)	16.3	99.67412	196.19295	105.18670	11.87375	0.0770881	3.0123630415484
(503257)	15.8	196.14701	51.33326	105.34260	11.20841	0.0931162	3.4944350415484
(503258)	16.9	328.49832	276.00851	170.58563	12.75767	0.2540544	2.6262051415484
(503259)	16.2	258.95004	342.51754	135.96859	11.06222	0.0125685	3.2010131415484
(503260)	16.6	168.14082	41.68210	189.62250	8.52683	0.0177584	3.0774653415485
(503261)	15.6	98.65718	208.38923	99.53703	11.21174	0.0524263	3.0828395415485
(503262)	14.2	52.89587	172.44922	75.54985	5.93338	0.0938848	5.2275120415485
(503263)	15.9	17.70356	268.41753	93.18456	10.91571	0.1140729	3.0643506415485
(503264)	16.8	279.02896	103.56157	17.64978	14.19489	0.1499733	2.7207125415486
(503265)	15.4	108.16168	177.38965	87.62998	17.59805	0.1059962	3.4164942415486
(503266)	15.9	358.73093	103.98131	272.59807	8.75166	0.0193356	3.1140477415486
(503267)	16.0	138.07221	242.98686	83.43353	10.15351	0.1111542	3.0388258415487
(503268)	17.9	281.01252	11.70819	293.87424	18.39863	0.0508789	1.9526437415487
(503269)	16.3	161.65584	32.31417	264.54420	9.10168	0.1744956	3.0168184415487
(503270)	15.9	99.56894	130.79692	242.41966	9.51328	0.0759548	3.1239023415488
(503271)	16.1	350.47440	227.05235	264.55577	10.65563	0.0668739	3.0269752415488
(503272)	15.7	100.99219	293.44875	78.37697	10.60980	0.0546030	3.0644571415488
(503273)	11.6	351.24694	30.67304	12.83133	9.49182	0.5404413	14.4064265415489
(503274)	19.4	265.59536	321.88112	135.96271	11.36838	0.2485471	1.5927385415489
(503275)	18.1	206.57476	48.89598	332.08420	17.50078	0.0812268	1.9887330415489
(503276)	18.4	228.01786	222.86239	154.46140	23.28198	0.0733238	1.9434439415489
(503277)	19.8	289.54734	117.77928	316.15511	12.24676	0.3030971	1.6621695415490
(503278)	16.5	157.30579	46.73106	255.56555	9.03886	0.1216477	3.1635431415490
(503279)	17.9	40.66379	358.82552	234.19918	19.09564	0.0600644	1.9336995415491
(503280)	16.0	135.70994	88.64943	285.88455	9.24925	0.1791362	3.1591652415491
(503281)	17.0	253.32804	215.52364	88.42010	7.70495	0.1389384	2.3907533415491
(503282)	17.3	195.45735	221.68091	116.87206	2.87860	0.0892601	2.6336813415491
(503283)	16.7	68.41815	302.49688	163.14649	4.93699	0.0685789	2.8167300415492
(503284)	16.1	286.16027	144.78991	107.67423	10.23009	0.0193246	2.9964401415492
(503285)	16.2	120.05211	282.61676	112.66277	9.57326	0.1373991	3.1500169415492
(503286)	18.2	312.35011	137.02386	199.82903	22.08055	0.1393067	1.8802559415493
(503287)	16.2	66.51415	295.52773	191.35165	24.27458	0.3348836	3.1663124415493
(503288)	18.3	218.78345	178.37891	315.28341	15.60571	0.0873884	1.8792116415494
(503289)	18.2	88.11203	43.53754	125.71657	3.22223	0.1492071	2.4060982415494
(503290)	17.7	101.58326	337.92704	252.46856	20.13378	0.0598861	1.8617141415494
(503291)	18.7	26.07537	12.89111	295.83047	18.86461	0.0606685	1.8469009415494
(503292)	17.6	213.38791	227.32823	268.80651	20.09668	0.0791984	1.8807054415495
(503293)	19.2	331.76662	115.47236	275.06278	7.01088	0.2428557	1.6972391415495
(503294)	18.0	85.20278	4.89973	209.58195	1.96094	0.1674766	2.3347215415496
(503295)	17.0	132.47856	341.39542	129.66063	5.61111	0.1361799	2.6826014415496
(503296)	16.4	51.31441	328.87706	285.94241	12.57726	0.2246323	2.6341605415496
(503297)	16.8	65.86089	87.92818	114.43731	11.66006	0.0765777	2.5411881415497
(503298)	17.8	290.08907	246.20720	112.98369	7.12093	0.0621202	2.1798834415497
(503299)	18.3	257.48170	129.15977	307.70450	18.79156	0.1230224	1.8883322415497
(503300)	17.8	110.67096	299.95885	268.45720	7.39502	0.1535032	2.2839515415498
(503301)	17.8	127.42054	56.84033	117.86896	7.20342	0.1992354	2.3572086415498
(503302)	17.9	115.69439	70.66995	115.81412	3.33401	0.1381254	2.3526818415498
(503303)	17.4	94.93128	119.47488	76.82973	6.31710	0.1494460	2.5348184415499
(503304)	18.1	109.25875	95.75559	99.52558	3.83340	0.1319062	2.3786186415499
(503305)	18.0	268.47970	137.75595	310.54502	20.03955	0.0438781	1.8651212415499
(503306)	16.0	19.00006	97.54644	121.45937	23.17521	0.0474084	3.1837418415499
(503307)	16.5	7.05591	161.57291	98.49828	10.28015	0.1088935	2.7649839415500
(503308)	17.7	108.87262	88.50913	114.95234	5.48361	0.1701416	2.3619784415500
(503309)	17.0	31.07426	328.20462	316.58902	24.02245	0.1672047	2.3643824415500
(503310)	16.8	178.86004	320.90434	130.00493	13.58956	0.1215692	2.6283342415501
(503311)	17.5	87.06947	245.03758	337.10491	2.01359	0.1227186	2.3699744415501
(503312)	17.6	111.06029	69.49094	129.30814	5.26998	0.1588136	2.3911519415501
(503313)	16.7	119.00989	246.23028	313.16818	19.93222	0.1669178	2.3310510415502
(503314)	16.0	289.65579	256.08001	95.12773	13.64459	0.1198853	2.8628000415502
(503315)	18.5	268.92517	98.36923	8.28319	20.35405	0.1088105	1.8565320415502
(503316)	15.8	319.80634	189.90534	124.50641	12.82247	0.0722786	3.1772218415503
(503317)	18.0	33.45171	350.94925	303.98621	17.63194	0.0728299	1.9193364415503
(503318)	17.8	119.05211	309.94934	272.68659	17.91208	0.0564652	1.9123823415503
(503319)	16.5	19.43575	357.14152	259.20671	11.58201	0.1516916	2.6849434415504
(503320)	16.4	104.08407	254.05889	263.84534	13.70871	0.0990495	2.8619039415504
(503321)	18.5	249.02328	133.05732	313.41889	17.33874	0.0753771	1.8969114415504
(503322)	17.2	63.60378	319.01269	276.52165	10.63606	0.1515141	2.6104158415504
(503323)	16.7	67.14330	317.63680	235.74216	8.09074	0.0265455	3.0861870415505
(503324)	17.0	51.22420	325.91988	301.16417	4.77493	0.0992093	2.3334842415505
(503325)	18.0	302.64956	285.11835	105.58655	22.01386	0.1049199	1.8915244415505
(503326)	16.8	55.27105	352.23117	282.19181	6.92078	0.1087888	2.2976735415506
(503327)	16.9	56.22755	333.20694	274.04109	8.02877	0.1276868	2.6532952415506
(503328)	16.9	56.72651	288.55181	324.31129	12.46956	0.1501471	2.6683569415506
(503329)	17.9	125.56889	12.78269	184.18814	4.84192	0.1125696	2.3671992415507
(503330)	17.1	101.17683	37.48094	171.95427	13.84337	0.1988356	2.6266335415507
(503331)	17.4	43.56997	328.93454	296.07111	13.39777	0.1115156	2.5576090415507
(503332)	18.4	334.15682	69.69087	295.77627	18.12461	0.1164406	1.8563733415508
(503333)	18.2	106.60941	265.80883	307.99288	4.29107	0.1300047	2.1979140415508
(503334)	18.4	118.39493	85.43620	114.00683	4.58660	0.1330231	2.2093709415508
(503335)	18.5	98.36454	252.28488	328.33462	3.71746	0.1117585	2.2065728415508
(503336)	18.7	332.73902	60.45538	319.46337	18.76539	0.0582059	1.8412582415509
(503337)	17.7	114.55103	88.62661	85.92023	4.62434	0.1329135	2.4254566415509
(503338)	17.9	138.32903	161.99126	9.64951	3.44857	0.1625136	2.2804191415509
(503339)	18.0	107.85556	167.00294	36.81067	2.68252	0.1445632	2.3293176415509
(503340)	17.6	86.37329	120.90209	93.51606	3.25881	0.1618187	2.4326511415510
(503341)	17.6	169.23855	263.91647	277.50005	19.73358	0.0390490	1.8973759415510
(503342)	18.5	341.85660	29.36089	327.54246	19.38887	0.0978508	1.8833606415510
(503343)	17.5	49.70913	279.05068	324.49219	7.74504	0.1617261	2.5264853415510
(503344)	17.8	89.17495	59.54269	158.32213	1.41539	0.1423043	2.3851659415511
(503345)	16.6	50.88988	75.94415	126.79728	11.56807	0.0415214	2.9836980415511
(503346)	17.9	128.18114	53.23564	124.37411	7.87070	0.1715346	2.3698367415511
(503347)	17.7	53.62328	279.16787	327.78531	5.38944	0.1615949	2.3327795415512
(503348)	18.0	63.28169	329.58845	304.94131	2.16777	0.1662075	2.1332384415512
(503349)	17.5	56.60669	289.20703	317.73141	5.19891	0.1420645	2.4584515415512
(503350)	16.8	49.72766	28.11820	169.77805	5.68262	0.1614646	2.9918040415513
(503351)	18.6	139.76182	21.17106	148.52510	5.16294	0.1319664	2.2021954415513
(503352)	18.2	27.73928	346.98456	294.00056	1.07033	0.1493445	2.2967928415513
(503353)	17.8	61.80580	227.72124	5.04973	3.91886	0.2440479	2.6652440415513
(503354)	16.6	42.55791	161.37760	59.09205	1.83890	0.1543400	3.0413787415514
(503355)	18.1	125.91209	130.57158	65.97417	4.84621	0.1574671	2.2409125415514
(503356)	18.5	32.64988	276.34863	357.27991	5.47137	0.0705808	2.3114236415514
(503357)	18.0	59.75463	153.05450	103.31177	6.85840	0.0811148	2.2531879415514

(503358)	18.6	116.39422	48.96744	155.38832	3.60181	0.0948217	2.1780767415514
(503359)	17.8	47.30495	20.96461	255.53790	3.82366	0.1779977	2.2084573415515
(503360)	17.8	90.93991	296.85920	276.81213	3.39833	0.0855159	2.3302490415515
(503361)	17.9	76.13926	251.03841	335.58712	0.93426	0.1362029	2.4027294415515
(503362)	17.0	135.52604	352.95038	135.62391	3.26984	0.0497608	2.6808804415516
(503363)	17.4	108.83103	255.17036	294.69444	1.59838	0.1363381	2.4202156415516
(503364)	18.0	116.30238	270.50169	278.36027	1.43673	0.1488557	2.3654735415516
(503365)	17.7	106.54178	68.10151	148.35306	6.77692	0.1033695	2.1901606415516
(503366)	17.6	80.83952	358.14311	234.78814	2.07607	0.1503163	2.3633770415517
(503367)	17.5	78.90142	283.30054	294.26611	7.41343	0.1299106	2.5283974415517
(503368)	18.3	90.44485	293.14016	300.09507	2.73294	0.1691136	2.3061830415517
(503369)	17.1	91.86265	279.58014	313.33880	23.51397	0.2829255	2.3027581415517
(503370)	17.8	115.02474	198.69127	353.10838	9.69996	0.0958184	2.2420709415518
(503371)	16.1	346.75501	159.11664	135.03621	29.69233	0.1105884	3.0774931415518
(503372)	19.1	297.03551	100.72065	311.51175	20.33478	0.1699071	1.8455777415518
(503373)	18.2	332.04757	63.29889	304.46972	16.88240	0.1092545	1.9693819415519
(503374)	17.7	82.02184	355.52511	237.72765	4.61251	0.1323075	2.3680160415519
(503375)	17.2	101.57407	59.19263	134.84696	8.60866	0.2243983	2.7756504415519
(503376)	17.1	82.40638	249.56196	335.23628	11.27034	0.1615565	2.3623421415519
(503377)	18.0	55.90143	283.55067	347.59136	7.61677	0.1981933	2.2562019415520
(503378)	17.2	72.25576	119.39020	105.96460	9.44571	0.1140628	2.5600549415520
(503379)	15.9	98.96896	58.37460	90.00850	10.54799	0.0529750	3.1045989415520
(503380)	16.0	289.64602	201.38171	128.09560	12.98579	0.0337661	3.0662595415521
(503381)	17.8	95.48068	235.99969	359.32766	2.41174	0.1756870	2.3310277415521
(503382)	17.9	57.54690	138.56178	115.83027	7.42759	0.1057701	2.3637095415521
(503383)	16.6	43.81024	344.55323	241.21110	7.76827	0.0974388	2.7874357415521
(503384)	17.4	223.36027	212.01826	210.56497	7.44101	0.0972183	2.3561019415522
(503385)	17.8	103.22861	331.43443	229.13568	5.25351	0.0941229	2.3782893415522
(503386)	17.4	100.55463	296.66306	257.37736	7.55408	0.1507911	2.5658482415522
(503387)	18.1	102.94182	358.77484	214.06863	5.13885	0.1059072	2.3098938415523
(503388)	17.6	102.74871	304.50337	250.23084	3.77867	0.1920043	2.5698742415523
(503389)	17.3	188.61999	342.38970	156.15440	23.45170	0.1704532	2.2322690415523
(503390)	18.3	196.11395	356.10126	119.97575	1.04906	0.0323719	2.2299840415523
(503391)	18.2	99.76734	58.77589	159.41090	1.48141	0.1555666	2.2659533415524
(503392)	17.8	44.99865	132.36479	133.46505	6.29597	0.1497634	2.2187696415524
(503393)	17.8	166.36413	347.36789	158.44909	3.58715	0.0827145	2.4034955415524
(503394)	16.5	125.56242	334.39198	194.74432	2.49393	0.1688703	2.9674942415525
(503395)	17.1	76.13282	90.51825	141.74011	13.14163	0.2104802	2.6097271415525
(503396)	17.7	60.17238	273.16013	351.00729	6.40143	0.1238653	2.2670335415525
(503397)	17.6	90.48561	117.68768	102.10059	2.88569	0.1156700	2.4073146415525
(503398)	17.6	89.43154	258.10573	318.21566	4.52168	0.0629839	2.3983658415526
(503399)	18.2	130.33970	32.51752	147.77804	2.71683	0.1457797	2.3725545415526
(503400)	17.5	61.76767	114.29212	121.15376	2.53527	0.1360284	2.6254832415526
(503401)	17.9	45.86759	205.55500	73.42959	3.56695	0.1526598	2.3403587415527
(503402)	17.3	76.00305	195.79668	25.83896	9.88291	0.1326846	2.5418501415527
(503403)	15.7	57.74436	120.82600	85.18973	18.28066	0.0863173	3.1408768415527
(503404)	16.7	63.87871	84.19717	174.48530	16.30688	0.1901735	3.1346234415527
(503405)	17.9	344.08669	54.85739	303.14425	17.80825	0.0848296	1.9503895415528
(503406)	17.9	60.33247	157.00583	85.30981	2.75128	0.1458023	2.4481359415528
(503407)	16.9	116.32884	52.44398	99.61875	22.93229	0.0233998	2.6696132415528
(503408)	16.3	143.07768	36.04766	152.20435	15.28454	0.0419468	2.6158195415528
(503409)	16.4	91.11366	302.00751	274.22109	8.14158	0.2241478	3.0527233415529
(503410)	16.4	74.81273	264.03635	15.12608	12.16967	0.1547003	2.5948523415529
(503411)	17.1	60.64728	65.14170	209.99718	8.21376	0.1421522	2.6855430415529
(503412)	18.2	295.42980	75.83675	349.91896	21.11207	0.0513950	1.8658810415530
(503413)	18.1	145.17200	276.20249	295.18102	18.00564	0.0603074	1.9512698415530
(503414)	18.2	324.31754	67.22990	335.45256	18.38160	0.1182381	1.8934883415531
(503415)	17.9	320.03942	124.44318	269.86477	17.84744	0.1037873	1.9249341415531
(503416)	18.2	151.63759	284.00607	251.92855	1.31019	0.1485510	2.2747455415531
(503417)	17.5	124.78297	61.44122	130.96189	2.92525	0.0576493	2.3836964415531
(503418)	16.2	192.03801	289.18741	138.06274	10.37452	0.0274370	3.0782592415532
(503419)	17.8	130.71451	50.44894	124.06591	3.36084	0.1307919	2.4668195415532
(503420)	18.8	215.51797	327.44587	144.79984	2.40573	0.0368532	2.1797327415532
(503421)	17.3	37.02638	256.31949	32.34846	9.89689	0.1105848	2.3652370415532
(503422)	16.5	57.26564	135.53508	123.04976	14.51447	0.1861035	2.7191209415533
(503423)	18.0	341.93369	249.30358	142.39304	24.09213	0.1011758	1.8881096415533
(503424)	17.8	98.46802	103.39961	133.80455	3.10234	0.1576870	2.4630954415533
(503425)	17.6	202.22959	348.61179	123.26350	6.20538	0.0297450	2.2789573415533
(503426)	16.5	22.75748	167.68363	127.64136	15.80153	0.1351339	2.5536489415534
(503427)	16.6	42.17332	12.69428	267.71759	12.02629	0.2014511	2.8837542415534
(503428)	16.3	49.85394	323.90534	300.04940	11.49704	0.0903608	2.8147499415534
(503429)	16.3	98.42218	251.40221	307.47174	7.51284	0.1055360	2.9212971415535
(503430)	16.5	302.46827	254.90654	93.98974	15.37586	0.1277930	2.7015943415535
(503431)	16.1	66.03730	273.15313	331.90252	15.20365	0.3087680	3.1483759415535
(503432)	18.3	139.84110	240.07072	325.67849	6.91327	0.0701591	2.2813721415536
(503433)	18.1	309.86960	268.01009	149.08978	21.18863	0.0916758	1.8790374415536
(503434)	19.1	271.01328	297.35785	164.38844	13.75437	0.2591573	1.8147087415536
(503435)	16.1	56.46009	277.75457	318.00587	25.53229	0.1698738	3.0609348415536
(503436)	18.4	184.10407	357.67138	142.54491	4.02898	0.0536359	2.1894684415537
(503437)	17.7	29.89374	327.63227	328.04829	6.50779	0.1250817	2.2801110415537
(503438)	17.2	93.23206	232.40224	333.39904	10.86777	0.1277344	2.5915412415537
(503439)	17.9	66.21739	278.49737	347.13125	6.11435	0.1124386	2.2699467415537
(503440)	17.0	92.58545	73.42306	129.51223	15.94684	0.2334091	2.7692353415538
(503441)	17.3	74.78284	179.51256	106.86031	7.62748	0.0982370	2.3017148415538
(503442)	16.9	84.07618	16.12850	207.65303	11.64247	0.2732851	2.7220049415538
(503443)	18.2	93.99820	308.11044	292.68410	2.44295	0.0625733	2.1656608415538
(503444)	18.0	68.24399	200.56955	74.99709	7.61157	0.1653919	2.2321951415539
(503445)	16.0	46.46045	106.66443	118.24874	9.55740	0.0147224	3.2237374415539
(503446)	17.9	93.32190	259.57857	352.17132	1.84505	0.1794401	2.3350707415539
(503447)	18.3	131.26238	33.82447	152.81382	5.92932	0.0666877	2.3881948415540
(503448)	18.1	68.29740	117.59803	152.93920	4.98057	0.2246950	2.4242019415540
(503449)	17.4	23.55432	158.82124	139.49413	6.31543	0.0548239	2.3618589415540
(503450)	16.5	104.44807	190.81134	7.43320	14.64801	0.1934694	2.6707873415540
(503451)	18.5	177.37397	14.41454	139.96600	6.11148	0.1384429	2.1922864415541
(503452)	17.7	116.39244	152.35976	36.24238	4.34085	0.1462021	2.5742216415541
(503453)	18.0	104.93693	168.73374	54.58415	3.23632	0.1391450	2.3626034415541
(503454)	17.9	52.43854	103.89576	163.89208	9.63404	0.1782959	2.5761177415541
(503455)	18.2	85.54193	213.96144	28.79442	3.67320	0.1093344	2.3823923415542
(503456)	18.1	108.51891	157.34648	71.89695	4.76421	0.1014149	2.2663510415542
(503457)	18.1	120.80010	311.15407	249.12826	0.99401	0.1524537	2.4534001415542
(503458)	17.0	33.50652	88.63524	200.45468	11.01061	0.1806709	2.6406942415542
(503459)	17.9	41.68143	347.31337	321.89650	1.84205	0.2220520	2.3228647415543
(503460)	16.8	18.99721	113.89190	177.17775	8.38182	0.1138253	2.7329753415543
(503461)	18.6	92.45163	55.53509	202.77444	5.58408	0.0771445	2.2318275415543

(503462)	17.3	82.89579	61.85880	171.62087	10.16926	0.0883432	2.6480677415544
(503463)	17.9	112.84328	46.10027	178.08544	5.77940	0.1745080	2.4236323415544
(503464)	17.8	104.15078	214.05819	24.71798	2.73470	0.1418069	2.3477489415544
(503465)	18.2	162.30000	311.90436	211.81091	2.06719	0.1075563	2.3889616415545
(503466)	18.0	170.11919	155.55321	0.02145	1.97801	0.1054186	2.3886778415545
(503467)	18.4	122.09267	178.69285	30.71353	2.82053	0.1646780	2.4616252415545
(503468)	17.8	87.59980	213.77993	29.48687	3.26011	0.1210092	2.5453765415545
(503469)	17.9	93.61417	71.46506	170.30469	13.06058	0.2007309	2.5623180415546
(503470)	18.8	272.20618	276.65964	183.72939	21.92770	0.1215491	1.9232983415546
(503471)	17.9	193.08759	61.04151	64.10115	6.01913	0.1052909	2.4654864415546
(503472)	17.8	107.71951	92.85372	115.42494	6.13258	0.0940331	2.6897411415547
(503473)	17.4	101.75928	72.73539	141.35830	8.50733	0.1616964	2.7466025415547
(503474)	17.6	91.86277	222.21163	10.24837	2.35498	0.1496034	2.4404337415547
(503475)	18.0	334.71204	99.19763	273.46881	16.98013	0.0594588	1.9964212415547
(503476)	16.6	211.52019	281.05894	152.27922	22.28556	0.0460059	2.6524098415547
(503477)	17.1	44.08026	190.18901	74.80932	14.18993	0.1370753	2.6486350415548
(503478)	16.8	49.20552	279.54664	333.89430	3.27998	0.1557425	2.8024122415548
(503479)	18.2	107.09483	350.56143	237.29054	6.65477	0.0944660	2.2650986415548
(503480)	18.1	200.41028	270.04430	210.75316	5.95412	0.0515277	2.3451567415548
(503481)	17.5	96.03878	226.46920	8.79206	5.57381	0.1248534	2.4299806415549
(503482)	16.3	179.11559	26.61788	97.25018	7.19699	0.0189759	2.8787264415549
(503483)	16.2	57.80401	92.83422	149.85511	26.17422	0.2091962	3.1117269415549
(503484)	17.5	105.43241	195.67102	13.53993	5.38138	0.2191706	2.6004495415550
(503485)	18.2	197.14592	119.34343	4.38291	5.40557	0.1044961	2.2950396415550
(503486)	17.7	82.79858	304.27324	291.87648	2.12808	0.1341261	2.6472522415550
(503487)	17.2	104.15311	247.92268	337.35902	3.07680	0.2128337	2.5749136415551
(503488)	17.9	310.32708	226.38563	195.02478	23.30291	0.1082951	2.0171038415551
(503489)	16.6	63.42494	251.78704	354.36643	12.58831	0.1947962	2.7496150415551
(503490)	17.2	112.02876	273.80549	276.64993	7.90259	0.1837458	2.5468712415551
(503491)	17.6	99.80636	341.95738	226.01216	7.21261	0.0619911	2.4459074415552
(503492)	17.7	66.56839	298.79121	313.57865	15.13374	0.1175444	2.4359883415552
(503493)	17.3	127.18192	225.44545	338.99544	23.86289	0.1710672	2.3135221415552
(503494)	16.2	353.77961	17.98246	268.34609	9.51655	0.1257508	3.0103331415553
(503495)	17.6	85.16987	4.29224	232.64131	6.56405	0.0668483	2.3518255415553
(503496)	19.0	268.17250	111.82753	337.15619	19.80843	0.1321213	1.9085630415553
(503497)	17.6	127.12012	74.25160	118.16556	8.44995	0.0439835	2.3314044415553
(503498)	17.8	142.81373	116.49677	80.23775	6.83566	0.0978045	2.2791310415553
(503499)	17.7	100.74193	152.75379	77.91030	3.21980	0.1405206	2.3869563415554
(503500)	18.0	147.35990	182.07018	5.08899	4.45695	0.1310708	2.2695793415554
(503501)	17.4	57.70036	349.73061	260.76717	1.90368	0.1318765	2.6560424415554
(503502)	18.1	78.57468	189.85418	87.69676	5.43614	0.1592198	2.2075171415555
(503503)	18.1	92.06163	99.76837	131.01117	7.65796	0.0624281	2.4142265415555
(503504)	17.9	238.43303	14.00714	125.05794	24.32372	0.0689351	1.9078921415555
(503505)	17.2	91.62876	113.01751	138.62079	13.31346	0.1198017	2.3282638415555
(503506)	18.7	224.69387	236.01903	222.88252	2.82932	0.0366631	2.2627430415556
(503507)	18.1	82.27489	52.26697	214.62355	5.20209	0.2232301	2.3106551415556
(503508)	18.6	280.08295	276.54099	169.52750	22.93421	0.1093873	1.8572486415556
(503509)	17.2	9.59236	310.16538	45.22912	21.18794	0.1242606	1.9540951415556
(503510)	17.4	126.65349	356.55477	172.36091	7.53523	0.2414193	2.7516519415557
(503511)	17.0	97.94136	206.93020	4.27496	8.20396	0.1310725	2.7414805415557
(503512)	18.3	195.24514	331.57711	144.11947	1.59607	0.1369729	2.3500698415557
(503513)	16.3	18.46255	296.65999	359.78228	11.42495	0.2100793	2.8543581415558
(503514)	16.7	112.03102	228.78720	342.42666	23.65902	0.1447348	2.2811907415558
(503515)	16.1	359.48416	278.13479	32.19518	9.38626	0.0837307	2.8035511415559
(503516)	17.6	106.90214	163.83595	68.14415	6.10734	0.1534334	2.3886778415559
(503517)	17.3	27.91565	152.30022	159.95291	5.51200	0.1402556	2.3482647415559
(503518)	17.9	175.85178	339.83428	156.48905	3.90966	0.0898091	2.4263792415560
(503519)	16.6	68.23422	184.98364	49.46780	5.96167	0.0980512	2.8590951415560
(503520)	16.5	104.17811	355.64180	159.87364	9.59713	0.0720048	3.1822512415560
(503521)	16.0	346.11469	183.15515	109.23964	6.59876	0.1287784	3.0709174415560
(503522)	18.0	161.76628	126.33412	37.02559	2.66842	0.1595549	2.3445378415561
(503523)	17.8	359.81336	193.93065	180.81898	22.21406	0.0851973	1.9736828415561
(503524)	17.0	29.23712	203.06158	74.04971	4.36542	0.1330366	3.0043463415562
(503525)	16.6	63.76707	76.62304	127.61485	10.29188	0.0449424	3.1641906415562
(503526)	17.3	37.67163	301.50306	2.50878	15.57953	0.1726067	2.5549823415562
(503527)	16.4	67.24528	281.56592	306.92500	3.68242	0.1163182	3.1253159415562
(503528)	16.1	348.35721	221.16926	118.35870	12.05571	0.1826901	3.0611282415563
(503529)	17.1	25.29153	216.56893	97.07598	3.85160	0.2532777	2.6354125415563
(503530)	17.3	45.38492	182.65735	99.08153	3.57523	0.1633984	2.6985068415563
(503531)	16.6	82.85591	129.17929	99.12262	6.40203	0.0472028	2.7834592415563
(503532)	17.4	5.88387	225.77731	97.40750	6.86299	0.0646094	2.5813730415564
(503533)	16.6	6.01269	148.91985	154.14308	12.76531	0.0895319	3.0467182415564
(503534)	17.4	63.71963	174.55169	117.94212	7.48088	0.1230900	2.3595419415564
(503535)	18.1	24.08935	297.07162	23.21850	2.71031	0.0259085	2.2605569415565
(503536)	18.1	94.23340	235.91687	19.25573	3.21263	0.1520330	2.3428285415565
(503537)	17.4	21.25729	193.05451	134.49347	2.09080	0.1937184	2.4264334415565
(503538)	17.7	356.84391	197.70710	153.49540	3.05851	0.1936477	2.3484237415566
(503539)	16.9	47.14381	220.69199	41.10816	4.94470	0.0276606	2.7551735415566
(503540)	17.4	66.76898	82.64481	180.36574	8.55206	0.1711209	2.6622573415566
(503541)	18.5	183.82915	334.65637	169.31474	1.95448	0.1545014	2.3127841415567
(503542)	17.2	10.56721	156.36971	142.70233	5.06483	0.0411748	2.7924226415567
(503543)	17.5	53.53766	147.17460	126.83044	3.38548	0.1226259	2.6471539415567
(503544)	17.0	33.12122	131.77493	179.84625	14.59940	0.2309619	2.5783239415568
(503545)	17.3	12.77024	322.77914	356.14198	1.73472	0.1968582	2.6867585415568
(503546)	17.1	24.58844	88.46929	202.02424	10.64242	0.0622802	2.7493964415568
(503547)	16.9	24.26851	281.45754	26.60831	7.89085	0.2160962	2.7721902415568
(503548)	17.2	0.31000	287.16456	57.33243	2.15059	0.2022051	2.4571491415569
(503549)	16.8	68.78536	61.54388	205.42435	8.68330	0.2665623	2.7067331415569
(503550)	15.9	74.41005	220.20157	3.21029	16.97331	0.1815957	3.1511528415570
(503551)	17.6	190.64164	77.46552	72.03981	6.31504	0.0613198	2.2282782415570
(503552)	16.6	200.11853	75.05391	29.26419	5.67686	0.0132158	2.7321223415570
(503553)	18.6	161.61697	116.85950	76.39091	1.36877	0.0937181	2.1481157415571
(503554)	17.6	106.96520	230.51423	338.50475	6.22468	0.0928614	2.4018073415571
(503555)	17.4	359.26362	198.77673	121.34018	4.63570	0.0881916	2.6983210415571
(503556)	18.5	75.25500	181.82783	100.12155	3.49167	0.1607872	2.3230903415571
(503557)	16.7	41.11405	286.01134	330.61721	8.44377	0.1117448	3.0407532415572
(503558)	18.1	87.36975	228.07092	38.41031	5.75996	0.0981899	2.2763665415572
(503559)	17.4	25.53104	223.14174	98.85131	3.47011	0.1416826	2.3773821415572
(503560)	17.6	110.88332	211.76027	342.57708	1.77930	0.1243449	2.7766176415572
(503561)	17.2	194.65833	156.04715	325.48673	4.54141	0.0688526	2.5321859415573
(503562)	16.3	65.71202	48.39800	225.78528	8.42045	0.2203719	2.6850373415573
(503563)	17.4	74.76626	196.70458	50.68165	7.55990	0.1734130	2.6321498415573
(503564)	17.9	236.15251	204.63966	245.72945	6.52054	0.0769116	2.2871663415574
(503565)	16.9	58.73543	52.03382	215.42182	11.19295	0.1431568	2.5863757415574

(503566)	16.8	126.21549	301.60032	191.02085	16.32512	0.1876350	3.1123722415574
(503567)	16.9	14.73131	355.73853	298.11044	3.70787	0.1019117	2.7402766415575
(503568)	16.7	22.31336	186.58618	93.54968	3.23044	0.0117360	2.9101757415575
(503569)	17.9	117.97256	158.35055	67.73688	2.08708	0.1317594	2.3668261415575
(503570)	17.8	258.55917	83.11372	339.93809	7.04038	0.0820093	2.2910726415576
(503571)	17.7	101.48327	37.72299	183.95420	12.84893	0.1803894	2.6487054415576
(503572)	17.8	127.83739	129.81832	78.01823	4.69004	0.0649853	2.4108482415576
(503573)	17.3	10.46302	301.94282	11.39759	4.31450	0.1173670	2.5501661415576
(503574)	17.5	333.52034	300.54984	36.70892	1.18441	0.0356279	2.6303249415577
(503575)	17.3	52.86713	7.89940	246.33739	1.52200	0.0081568	2.6893162415577
(503576)	18.1	7.30447	120.69859	212.87315	4.99767	0.1190217	2.3662213415577
(503577)	18.3	278.29734	39.83835	12.73893	4.93838	0.0992707	2.2995674415578
(503578)	17.3	64.44814	324.91465	273.62490	1.21377	0.1863654	3.0513404415578
(503579)	15.9	7.40035	294.05872	0.51375	5.19182	0.1183717	3.0825003415578
(503580)	17.9	36.62633	304.85581	16.85277	5.52157	0.1869770	2.3046810415578
(503581)	17.2	319.69814	166.70706	196.75002	2.22857	0.1144349	2.5405327415579
(503582)	17.8	331.21253	128.57839	242.61811	2.47479	0.1719122	2.3099740415579
(503583)	17.4	133.99896	335.76601	204.37611	3.47221	0.1388399	2.5902449415579
(503584)	17.4	348.77654	308.26009	28.48830	3.12092	0.0532368	2.5299389415580
(503585)	18.2	228.01685	275.07434	192.38939	3.90129	0.0857936	2.2633227415580
(503586)	16.4	36.40758	220.90190	42.48295	1.45335	0.1333815	3.1729413415580
(503587)	17.3	21.27848	221.94459	68.35316	1.14310	0.0361731	2.7545206415581
(503588)	18.1	230.29655	122.72886	319.17930	4.00946	0.0193138	2.5541356415581
(503589)	18.2	181.36092	99.07968	63.99854	4.64932	0.0501308	2.2831063415581
(503590)	17.0	286.28775	283.90016	114.31285	3.57966	0.0965516	2.5170652415581
(503591)	18.1	80.77829	241.76862	19.63594	3.43524	0.0972298	2.3926472415582
(503592)	18.0	150.62592	116.54299	63.00773	3.33882	0.1426829	2.4161276415582
(503593)	16.8	81.49476	159.39960	60.21334	4.94290	0.1279470	3.0219087415582
(503594)	16.9	76.11098	161.93983	84.45745	4.55817	0.1398781	2.7486705415582
(503595)	17.1	293.51769	3.06642	14.50915	6.34473	0.0570500	2.6728936415583
(503596)	18.3	69.09231	93.26951	195.47503	0.45280	0.1827448	2.3522447415583
(503597)	17.3	48.12203	127.12334	150.01524	3.83585	0.1624611	2.7462293415583
(503598)	17.5	357.27798	200.21043	127.58554	2.67583	0.1687493	2.7445032415584
(503599)	17.5	357.04599	319.74350	11.56033	1.60152	0.1609771	2.6525570415584
(503600)	17.1	104.11879	151.57184	66.22346	3.58194	0.1422500	2.6220969415584
(503601)	16.7	12.15586	162.14911	138.12096	6.37319	0.0407247	2.8037523415584
(503602)	17.0	325.54542	232.25229	124.90385	5.43381	0.1343232	2.7232849415585
(503603)	17.8	133.22640	67.32547	134.57405	5.97700	0.0877362	2.4410104415585
(503604)	16.6	17.27353	123.49532	168.67621	10.24495	0.1024472	3.0727685415585
(503605)	17.5	12.02858	166.02830	144.84884	6.25222	0.0368919	2.6845677415586
(503606)	17.5	118.14185	38.82230	155.06536	5.32701	0.0539944	2.7562729415586
(503607)	17.3	270.31219	229.25154	181.25056	9.32816	0.0518601	2.5639788415586
(503608)	17.6	63.05893	226.71574	41.73527	5.92990	0.1640128	2.7199997415586
(503609)	16.7	41.33282	193.58495	71.63946	2.44127	0.1413216	3.1709294415587
(503610)	16.6	330.90398	303.41245	45.57187	7.23205	0.0892185	2.7595360415587
(503611)	17.3	86.32754	166.46216	72.08443	3.61253	0.0804208	2.6607094415587
(503612)	17.6	126.05257	129.67682	90.88744	2.26252	0.1349203	2.3655287415587
(503613)	16.8	196.55114	325.92116	163.83929	12.96066	0.1495071	2.6608185415588
(503614)	16.7	98.27096	349.00176	206.98942	5.80361	0.1450816	3.1049014415588
(503615)	18.1	142.88952	200.05351	19.03563	6.00502	0.0877469	2.1981044415588
(503616)	17.4	83.80354	264.05371	8.14198	6.25523	0.1145187	2.3510122415588
(503617)	18.4	158.90335	186.66627	0.18548	5.53723	0.0426675	2.2753779415589
(503618)	16.8	168.87301	153.20842	340.95245	4.14462	0.0577671	2.7581837415589
(503619)	16.2	16.35497	293.65374	7.16116	15.20147	0.1996737	3.0485982415589
(503620)	18.1	181.83587	169.39765	337.58806	1.27797	0.1244665	2.3538713415590
(503621)	18.5	100.63894	231.88503	25.69819	1.24977	0.1579860	2.3297034415590
(503622)	17.4	149.57735	266.30633	255.53628	1.79699	0.0712650	2.6625000415590
(503623)	17.9	123.74634	358.09969	219.05541	6.69767	0.0525682	2.3120829415590
(503624)	18.0	182.05560	353.52408	156.81019	2.40828	0.1476933	2.3489019415591
(503625)	17.9	304.72515	258.62887	164.36666	22.86230	0.1126323	1.9366582415591
(503626)	16.9	52.65805	194.69194	97.07144	9.07213	0.1092137	2.4014776415591
(503627)	17.2	119.55268	30.64030	164.63133	8.40887	0.1563624	2.6485906415592
(503628)	17.1	78.90190	204.00256	63.25876	10.38404	0.1127559	2.6409221415592
(503629)	16.6	146.80249	175.95772	339.13519	12.79200	0.1139281	2.6449599415592
(503630)	17.9	249.79707	222.00579	218.87137	5.93871	0.0735079	2.3704376415593
(503631)	18.4	207.72224	110.00349	20.12878	7.04070	0.0290872	2.2533035415593
(503632)	17.8	74.08740	182.70375	105.01584	2.52439	0.1735955	2.3892886415593
(503633)	16.7	327.51740	264.83412	91.31547	7.34902	0.0726332	2.7351394415593
(503634)	16.1	323.28918	260.56265	75.54363	10.05526	0.0303266	3.1890190415594
(503635)	17.2	119.44338	153.44317	65.94631	6.98604	0.1007223	2.4749267415594
(503636)	17.1	117.32791	82.42085	131.33063	5.67602	0.1697961	2.5729026415594
(503637)	16.6	51.34767	233.81866	47.66246	10.96756	0.1265908	2.7269197415595
(503638)	17.3	19.05454	288.15674	59.92319	7.31999	0.1446025	2.2609696415595
(503639)	17.7	187.32382	345.33029	154.38399	4.98745	0.0588443	2.5353613415595
(503640)	17.0	59.96102	100.95735	163.94766	6.16593	0.2820698	3.1159721415595
(503641)	17.5	22.84385	233.14045	102.80390	7.29914	0.1702984	2.4756112415596
(503642)	17.4	254.17368	316.05715	108.22011	7.25034	0.0304334	2.7782957415596
(503643)	16.2	349.16948	175.50980	151.10614	10.22970	0.0775868	3.0670876415596
(503644)	16.6	20.58729	214.60674	79.53869	10.38220	0.0673131	3.0600332415597
(503645)	16.7	260.12927	306.65138	120.80327	9.84345	0.0551421	2.6202829415597
(503646)	18.3	232.47548	353.75383	122.47180	5.55780	0.1014658	2.2589074415597
(503647)	17.1	26.95789	171.64074	165.83140	6.29538	0.1695010	2.6545717415597
(503648)	17.0	97.66273	140.37516	105.18284	9.88391	0.2413765	2.7649142415598
(503649)	16.7	81.38906	147.86184	132.31886	9.69065	0.1147382	2.6177763415598
(503650)	17.6	165.24171	45.15659	151.05508	6.61364	0.0840242	2.3239689415598
(503651)	17.4	98.69776	195.43401	59.00605	6.64249	0.1905466	2.3649004415599
(503652)	16.9	55.25365	91.87078	194.19441	14.31947	0.1094400	2.6139556415599
(503653)	17.5	125.97625	198.49372	2.47538	4.74379	0.1411409	2.3735124415599
(503654)	17.0	78.89759	100.10831	148.61284	12.26122	0.1482433	2.5528954415600
(503655)	15.8	358.78154	283.97663	25.53607	16.65767	0.0530446	3.2134970415600
(503656)	16.4	49.29759	196.81397	71.91204	13.23455	0.0827929	2.7251871415600
(503657)	16.0	34.89021	286.99451	26.84796	22.12661	0.1038873	2.6594178415601
(503658)	17.4	106.21746	98.18258	138.27980	8.34013	0.1889365	2.7312737415601
(503659)	16.4	23.13039	184.92575	140.99330	12.09579	0.1835992	3.1233999415601
(503660)	18.0	266.07573	301.01067	167.96786	6.96368	0.0284779	2.2103025415602
(503661)	16.5	351.13032	170.65227	198.72214	10.56800	0.1608993	2.8363183415602
(503662)	16.1	24.44336	137.01864	182.21285	27.80252	0.2514115	3.2081903415602
(503663)	17.7	151.94341	47.36365	164.99605	7.39710	0.0814420	2.2119552415602
(503664)	17.6	74.32523	355.31581	276.42165	1.80872	0.1990594	2.5381314415603
(503665)	16.8	44.46015	46.75654	227.64433	4.32457	0.0631813	2.7520437415603
(503666)	16.4	57.53481	220.64314	30.07655	2.50681	0.0864297	2.9875500415603
(503667)	17.4	216.52248	108.28824	351.19068	4.56422	0.1035622	2.5788123415604
(503668)	17.6	20.76326	59.04010	252.94217	2.39490	0.0627778	2.6320739415604
(503669)	18.2	75.45934	105.66093	181.14637	0.98948	0.1723692	2.3780300415604

(503670)	16.7	80.69665	354.13909	251.59392	5.09370	0.1091513	2.6917174415605
(503671)	16.2	73.34928	257.28448	8.77767	11.54904	0.1664780	2.6332406415605
(503672)	18.0	84.38281	209.78615	73.81196	4.57564	0.1844172	2.4129364415605
(503673)	17.1	125.85451	230.18101	342.17703	9.05742	0.1475775	2.5781024415606
(503674)	17.6	281.35082	212.62566	254.57725	19.00991	0.0920754	1.8951139415606
(503675)	17.3	69.06825	64.90985	205.97711	12.88424	0.0680847	2.6135884415606
(503676)	16.6	54.60420	81.63612	187.81727	13.89538	0.2479327	3.1979329415606
(503677)	17.3	17.34005	219.77027	105.67173	5.06048	0.0606433	2.6318506415607
(503678)	15.9	329.50631	289.18727	63.95488	17.89714	0.1594441	3.1699730415607
(503679)	17.3	58.60553	88.37059	207.50479	2.42443	0.2090142	2.7524807415607
(503680)	16.9	336.02497	237.76910	114.17157	7.26907	0.0550998	2.6901024415607
(503681)	15.8	9.68832	206.93507	101.30993	14.98885	0.1494844	3.1513073415608
(503682)	16.8	77.95006	197.77349	80.02484	9.28247	0.0904116	2.4134827415608
(503683)	16.4	30.44027	220.66618	71.09054	11.25237	0.1807866	3.1651041415609
(503684)	17.4	319.75885	254.11132	142.41931	5.59964	0.1431124	2.3009250415609
(503685)	16.0	242.45790	240.82693	176.32986	11.87249	0.0755899	3.1765267415609
(503686)	16.7	76.71355	148.30964	130.58166	7.91763	0.2299881	2.6230892415609
(503687)	17.4	37.02367	218.77743	68.20930	2.44927	0.0832358	2.8620482415610
(503688)	17.3	340.11523	218.39894	134.61347	5.63630	0.0802722	2.8065676415610
(503689)	17.2	26.71956	220.18929	70.35698	3.11932	0.0311194	2.8857157415610
(503690)	18.4	225.55288	188.04908	289.83596	1.49035	0.1433290	2.2920464415611
(503691)	18.3	171.72019	183.17064	6.82761	1.97138	0.0535081	2.2482536415611
(503692)	16.1	75.97832	139.46242	89.35576	10.96467	0.0208066	3.0791811415611
(503693)	17.1	133.16587	352.47873	207.70978	9.00361	0.1305488	2.6451928415611
(503694)	16.7	52.59653	90.36324	219.21083	11.51283	0.1397940	2.6303378415612
(503695)	16.0	35.03512	118.66433	147.44725	26.93810	0.2272514	3.2317755415612
(503696)	17.2	122.25482	126.35296	71.23890	12.38516	0.1823148	2.7327486415612
(503697)	17.0	333.62430	205.37149	156.64429	6.52116	0.0337493	2.7006638415613
(503698)	17.1	3.27578	205.73312	124.67130	6.59870	0.0218054	2.7482898415613
(503699)	18.1	181.19175	69.02944	106.87233	7.20190	0.1077301	2.3228135415613
(503700)	16.1	40.47038	99.08732	189.87458	10.77706	0.0687898	3.0609747415613
(503701)	16.4	83.44444	140.10132	99.66336	11.92456	0.0914986	3.0783447415614
(503702)	16.3	63.73777	126.57339	130.67659	12.43877	0.0575476	3.1934370415614
(503703)	16.7	138.21652	42.07042	154.37149	25.91636	0.0179065	2.6892472415614
(503704)	16.7	108.54633	84.42645	154.88513	15.35579	0.0467598	2.6518935415614
(503705)	16.4	11.61640	177.63227	158.85003	18.37397	0.2207958	3.0909982415615
(503706)	16.9	114.83294	83.95885	145.19811	13.66896	0.2292302	2.6034257415615
(503707)	16.2	5.24933	237.37891	72.33651	10.07107	0.0454276	3.1505223415615
(503708)	17.4	47.57221	226.03124	79.20177	3.35368	0.1296407	2.6178277415616
(503709)	17.4	342.29831	313.07465	65.55371	4.06300	0.2143486	2.4617095415616
(503710)	16.7	303.92177	249.34433	138.63396	1.28022	0.1215120	2.7870471415616
(503711)	16.5	161.17734	96.95989	52.71631	9.02593	0.0076368	3.1274264415617
(503712)	16.3	184.08785	83.83318	39.56891	10.47949	0.0874319	3.0547241415617
(503713)	17.8	205.55229	142.36727	359.36326	2.09077	0.1160063	2.3583101415617
(503714)	16.3	354.30870	112.17422	210.27011	7.96086	0.1391324	3.4260159415617
(503715)	17.7	142.10228	162.07914	54.32244	7.55213	0.0726636	2.3233034415618
(503716)	16.8	109.00356	205.70424	16.37011	4.17982	0.0385132	2.7810414415618
(503717)	18.2	149.81842	118.47852	96.39484	4.85587	0.1125685	2.2646076415618
(503718)	15.7	316.09729	292.79837	67.87393	12.71598	0.0695312	3.2411558415619
(503719)	16.9	95.62086	111.68641	107.19013	4.53429	0.1348483	3.0853375415619
(503720)	17.3	60.10641	170.85365	118.57933	12.47486	0.1788631	2.6157048415619
(503721)	16.7	114.49111	23.44719	189.36902	7.82039	0.1497099	2.7579304415619
(503722)	16.2	133.89831	55.02974	120.78547	11.33315	0.0359429	3.1337791415620
(503723)	16.8	75.57325	59.53509	214.86150	11.80128	0.1580740	2.6973329415620
(503724)	16.5	113.30748	176.25553	49.07116	12.81919	0.1222450	2.5682263415620
(503725)	15.9	10.47959	66.15375	256.55192	8.76926	0.0883724	2.9808561415621
(503726)	15.9	8.56329	251.41136	88.86808	13.71188	0.1978116	2.7178279415621
(503727)	17.0	109.00848	44.33292	199.81848	6.86974	0.1528223	2.6177093415621
(503728)	15.9	99.65847	68.11404	128.83297	26.83014	0.2401870	3.1157244415622
(503729)	16.6	52.69642	121.29310	160.63430	16.80257	0.1164080	3.0530229415622
(503730)	16.6	79.12362	59.69329	190.42320	26.41241	0.1511515	3.2023081415622
(503731)	16.8	134.26355	92.36879	123.37794	10.01331	0.0658275	2.6236518415623
(503732)	16.5	180.64073	22.52546	126.56284	11.66517	0.0385509	3.0246994415623
(503733)	16.7	124.70119	67.57771	144.87404	10.12095	0.0432132	2.9355439415623
(503734)	16.5	205.09354	277.72048	200.52241	9.23060	0.0484133	3.1159910415624
(503735)	16.7	87.37155	25.27711	213.99866	12.34312	0.0816493	3.1737431415624
(503736)	16.5	48.10329	199.18315	103.98743	11.16260	0.1416946	2.9037966415624
(503737)	16.5	267.19211	273.43804	146.02538	7.04181	0.0614752	3.2201810415624
(503738)	17.0	313.56697	204.07078	190.32928	5.83219	0.0367497	2.7529057415625
(503739)	17.6	20.61971	184.76071	154.14143	4.12289	0.0787501	2.6842360415625
(503740)	16.2	90.71714	143.29086	94.77206	16.86741	0.0481139	3.1012261415625
(503741)	17.5	168.72837	73.00768	130.54909	7.01490	0.0558237	2.3351018415625
(503742)	16.3	352.34006	275.96152	92.87494	14.71239	0.2542927	3.0707543415626
(503743)	17.2	163.94514	39.33553	149.15645	5.12014	0.0329944	2.6524091415626
(503744)	16.4	266.51442	213.23050	221.68099	11.48177	0.0388240	2.9645983415626
(503745)	16.3	354.26495	204.31615	144.25141	8.02729	0.1465020	3.1825713415626
(503746)	17.7	168.43677	95.10139	105.30860	6.52967	0.0786468	2.3516356415627
(503747)	15.9	352.79999	201.85407	156.35086	28.88649	0.1582703	3.1134688415627
(503748)	16.0	195.66131	281.87399	224.55419	23.63542	0.1186580	2.7312936415627
(503749)	16.5	69.68150	123.98286	147.10007	18.15487	0.1758822	3.1396600415627
(503750)	16.9	16.85731	120.44932	236.42005	10.44750	0.1764369	2.7076766415628
(503751)	16.7	142.86433	41.93285	148.51311	14.13044	0.1938279	2.6834821415628
(503752)	16.6	43.02861	120.29784	195.67663	13.77603	0.1951359	3.0146630415628
(503753)	16.5	72.48724	191.49318	114.31805	15.25971	0.1818854	2.6328089415629
(503754)	16.7	259.51338	320.45590	136.20592	22.71054	0.0818199	2.6887796415629
(503755)	16.2	69.30025	53.69823	219.21459	11.45661	0.1091650	3.1307053415629
(503756)	15.9	93.06635	151.87064	120.68160	15.66959	0.2307578	3.0732372415630
(503757)	15.7	47.60430	44.03805	288.98425	15.70935	0.0850005	3.0577963415630
(503758)	16.7	82.96385	142.92249	147.74847	7.67765	0.1185850	3.0067868415630
(503759)	16.4	45.83925	207.77403	98.37814	16.30528	0.1310306	2.8564369415630
(503760)	16.4	24.55950	168.41053	191.98110	8.33067	0.0674257	2.9772494415631
(503761)	16.4	63.30033	171.49189	146.33422	11.08207	0.0665828	3.1583264415631
(503762)	16.0	185.45703	222.48471	317.42116	15.08993	0.0735537	3.1195149415631
(503763)	16.2	123.42715	138.86660	121.29446	8.59830	0.1018721	3.1805175415631
(503764)	16.8	311.83951	17.10666	93.51929	14.27936	0.1789255	2.6413591415632
(503765)	15.2	171.75889	298.47199	278.26634	17.86130	0.0574996	3.0947973415632
(503766)	16.4	52.76659	157.08500	186.81331	9.65916	0.1188500	3.0854166415632
(503767)	15.7	300.68380	270.85270	178.74529	15.94493	0.0668108	3.1822612415633
(503768)	15.7	83.32155	3.33649	352.46485	16.30865	0.0691134	2.9707643415633
(503769)	14.8	154.99552	148.28042	83.78524	9.11753	0.0569557	3.9421714415633
(503770)	16.1	342.87192	334.04334	93.53234	9.38229	0.1303165	2.9861835415634
(503771)	17.0	265.86529	26.47772	139.79034	6.00491	0.1290268	2.5335784415634
(503772)	15.1	66.16470	9.74083	286.72285	8.69133	0.2394508	3.9654616415634
(503773)	16.3	135.79499	77.69749	191.45796	13.02894	0.0151254	3.0614378415635

(503774)	15.9	299.46910	336.26361	138.56541	10.96218	0.0238432	3.0986765415635
(503775)	16.0	76.16255	154.94106	160.51358	7.33231	0.1630776	3.1744513415635
(503776)	16.4	24.15036	196.07715	182.17682	13.87093	0.0780360	3.1805713415635
(503777)	16.5	36.67079	187.66983	179.09285	10.20214	0.0377177	2.9935888415636
(503778)	16.0	31.33360	206.16715	173.43497	9.85716	0.0802383	2.9098552415636
(503779)	16.0	58.49648	151.92933	182.99269	10.87405	0.0402549	3.1092515415636
(503780)	15.5	122.78323	321.26222	298.35647	13.69653	0.1046696	3.1364824415637
(503781)	16.3	119.67394	85.99829	178.25471	5.30508	0.1047598	3.1971194415637
(503782)	16.4	40.57262	201.69616	169.41236	10.27565	0.1019019	2.8703214415637
(503783)	16.4	94.73865	131.18395	164.07488	8.76089	0.1291580	3.0708469415638
(503784)	15.9	79.87005	149.23299	183.50504	9.36382	0.0913026	3.1687681415638
(503785)	16.1	12.30107	42.80982	70.41504	11.11959	0.1806960	3.1699751415638
(503786)	15.7	337.77030	267.09263	233.98086	11.20819	0.0424654	3.0204094415639
(503787)	16.2	37.33053	30.57198	50.05942	11.02952	0.1096401	3.0176540415639
(503788)	15.6	357.69540	64.37504	57.42958	11.40728	0.0263698	3.1388544415639
(503789)	18.3	14.35120	93.77432	66.03523	23.41117	0.0615886	1.9445709415640
(503790)	17.8	253.27354	100.45595	190.73342	21.60882	0.0446523	1.9409236415640
(503791)	17.6	218.01415	223.65139	113.89209	21.68238	0.0634475	1.8866468415640
(503792)	17.0	64.74564	170.73145	285.11465	5.06738	0.1592836	2.7096297415641
(503793)	17.6	17.19842	66.03199	134.02570	24.20842	0.0828326	1.9617578415641
(503794)	18.1	55.05308	206.25731	316.01608	18.02475	0.0433931	1.9708652415641
(503795)	16.4	51.97964	247.93292	311.73445	4.09996	0.2123211	2.5565965415642
(503796)	16.7	86.23324	110.48120	329.14902	7.40607	0.1742162	2.7797308415642
(503797)	16.5	345.20250	243.19587	342.07901	10.92843	0.1472248	2.6161912415642
(503798)	18.0	306.36714	141.29808	142.90599	23.72227	0.0678713	1.9251122415643
(503799)	17.5	35.25134	130.58921	57.04695	6.43516	0.1120442	2.7146158415643
(503800)	16.1	124.38890	334.60605	106.93548	10.28270	0.0299425	3.1279868415643
(503801)	18.1	17.33603	185.00891	76.74057	6.92698	0.2076194	2.3717067415643
(503802)	16.2	29.70750	116.18320	104.18153	8.26923	0.1908713	3.1206932415644
(503803)	17.0	78.59472	76.39354	102.47000	9.77153	0.0242203	2.6836028415644
(503804)	16.8	311.14315	184.53231	152.30300	5.24821	0.2204626	2.5478005415644
(503805)	16.0	353.10100	177.21702	96.03749	13.68878	0.1705027	3.0511490415644
(503806)	17.6	29.04620	140.77083	100.18970	23.60595	0.0566750	1.9516057415645
(503807)	16.1	344.82884	181.51850	114.35360	14.40200	0.2489743	2.7840237415645
(503808)	15.8	38.28328	72.88042	152.81676	15.28299	0.0538998	3.1871213415645
(503809)	17.7	258.34660	242.80045	130.94519	25.61428	0.1133407	1.9945013415646
(503810)	17.7	316.74925	227.10432	106.08390	23.57825	0.0771138	1.9433681415646
(503811)	16.1	241.09425	314.26614	66.96137	28.73764	0.0365347	2.6537044415646
(503812)	16.9	23.65741	5.86081	236.45370	12.25982	0.0980597	2.5333623415647
(503813)	16.9	346.87512	92.02235	188.93866	8.94912	0.1045878	2.8362710415647
(503814)	16.0	347.89079	47.96785	240.59356	20.98058	0.1596393	3.0851953415647
(503815)	17.7	49.83372	348.64901	229.16445	4.69228	0.0915881	2.4478226415647
(503816)	16.9	20.76099	172.44690	79.25036	10.31897	0.1244030	2.5594759415648
(503817)	18.0	18.93174	143.05240	119.93949	4.33480	0.1270775	2.1579454415648
(503818)	17.7	13.07846	173.89715	93.95245	7.34598	0.1767517	2.2930809415648
(503819)	15.8	0.25520	49.66033	224.62215	16.24400	0.2081071	3.1556144415649
(503820)	15.6	15.27643	21.10028	229.63407	29.45383	0.2205021	3.1861029415649
(503821)	17.5	343.92432	180.86210	124.25622	7.35498	0.1682605	2.3079903415649
(503822)	16.8	38.47346	5.48411	220.90746	17.09783	0.1522092	2.6159455415650
(503823)	16.8	40.27904	38.34007	184.01514	9.23269	0.1002566	2.7910278415650
(503824)	18.4	34.81330	42.79588	186.44301	4.61884	0.1328016	2.2415969415650
(503825)	16.5	339.65532	166.87893	126.83601	5.02384	0.2091716	3.0284359415650
(503826)	16.3	338.93695	157.93602	129.65725	5.12067	0.1490164	3.0981399415651
(503827)	16.6	16.33688	111.93478	129.73814	6.96221	0.1059744	3.1010752415651
(503828)	17.9	358.36570	201.26573	83.18409	6.17959	0.1575200	2.2765469415651
(503829)	16.7	10.50637	172.98593	84.26952	13.90056	0.1433842	2.7520496415651
(503830)	16.1	311.35017	187.81955	131.29687	11.69969	0.0261693	3.0908580415652
(503831)	15.8	301.20623	113.35372	240.90844	28.76921	0.1831416	2.6002425415652
(503832)	15.8	359.62650	130.16487	132.39756	11.73463	0.0476013	3.1453298415652
(503833)	16.5	0.00813	168.35753	108.73964	14.98317	0.1714987	2.7296610415652
(503834)	17.0	30.44014	41.22273	202.30020	12.43881	0.1915981	2.6281599415653
(503835)	16.6	343.20242	151.89522	150.22472	6.98205	0.2209772	3.0242462415653
(503836)	17.4	6.32960	30.91938	242.41093	4.68615	0.1625234	2.4140314415653
(503837)	16.8	48.82828	344.77736	220.06537	13.05066	0.1879513	2.6920814415654
(503838)	16.1	16.82203	139.59244	99.58005	17.56607	0.0891941	3.2171942415654
(503839)	17.2	359.27161	158.05073	119.82173	15.95481	0.1552946	2.5710879415654
(503840)	16.1	8.07012	15.98784	244.64706	16.15077	0.1964880	2.8061554415654
(503841)	15.7	315.64687	196.41922	117.71972	23.93332	0.0801999	3.1740584415655
(503842)	17.6	329.79994	230.04629	96.21512	3.18164	0.2196979	2.3435234415655
(503843)	17.6	21.89206	44.40554	209.61296	2.93147	0.2052181	2.3768272415655
(503844)	17.2	49.00744	32.26090	180.40002	13.75401	0.1952751	2.6964185415656
(503845)	17.6	11.09316	251.10135	59.78155	10.87411	0.2647188	2.3233886415656
(503846)	16.2	9.17293	168.27787	136.65872	15.33017	0.1228734	3.1236925415656
(503847)	18.0	11.59852	34.52582	268.74266	5.58833	0.3569597	2.6227698415657
(503848)	18.1	24.55536	243.57581	77.12237	0.78446	0.2791553	2.2386562415657
(503849)	18.2	13.76509	357.58015	344.93481	2.70904	0.2654515	2.3752011415657
(503850)	17.8	359.84103	342.47624	37.99803	7.34871	0.2296361	2.3598975415657

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2004 RX_{251}	= 2013 YG_{139}	*MPO* 279042
2007 HF_{59}	= 2014 YF_{27}	*MPO* 378281
2010 BS_{78}	= 2010 NK_{39}	*MPO* 181376
2010 CA_{218}	= 2014 SR_{18}	*MPO* 308444
2011 PA_{1}	= 2011 PS_{11}	*MPO* 237441

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement.*

1995 OC_{13} = 2017 OL_{67}
1995 UP_{59} = 2017 RV_{4}
1996 SO_{5} = 2016 FM_{46}
1996 VE_{42} = 2006 BT_{259}
1998 SR_{51} = 2015 TW_{281}
1998 TM_{1} = 2008 HD_{17}
1999 ET_{2} = 2014 NF_{48} = 2016 CG_{148}
1999 VH_{136} = 2013 HW_{7}
2000 AK_{42} = 2011 HR_{2} = 2013 AA_{126}
2000 SX_{131} = 2017 ON_{33}
2000 YQ_{16} = 2012 CE_{18} = 2016 XR_{17}
2001 FL_{199} = 2017 QN_{13}
2001 SU_{166} = 2010 OW_{88}
2001 US_{232} = 2010 FM_{118} = 2014 WU_{369} = 2017 BF_{31}

2001 $WD_{5} = 2012\ YH_{3}$
2001 $WW_{68} = 2017\ OA_{31}$
2001 $XP_{264} = 2013\ HY_{18}$
2001 $XG_{265} = 2011\ UJ_{91} = 2015\ BE_{294}$
2001 $YM_{18} = 2017\ QA_{34}$
2002 $CE_{266} = 2015\ DJ_{1}$
2002 $DF_{8} = 2015\ KN_{1} = 2016\ TV_{29}$
2002 $GR_{46} = 2017\ QY_{6}$
2002 $GB_{192} = 2010\ BA_{85} = 2010\ OG_{8}$
2002 $PV_{36} = 2017\ PO_{10}$
2002 $PO_{176} = 2017\ OG_{43}$
2002 $PO_{201} = 2017\ PA_{1}$
2002 $PQ_{202} = 2017\ OV_{10}$
2002 $PS_{202} = 2017\ OW_{20}$
2002 $QJ_{64} = 2017\ QC_{34}$
2002 $QF_{83} = 2010\ CB_{88} = 2015\ BN_{352}$
2002 $RP_{263} = 2017\ OP_{37}$
2002 $RO_{272} = 2013\ VE_{12}$
2002 $SD_{75} = 2014\ FR_{38}$
2002 $TC_{153} = 2013\ SP_{5} = 2013\ WG_{35}$
2002 $UX_{34} = 2008\ KN_{32} = 2009\ OS_{8} = 2015\ HO_{47}$
2002 $XQ_{121} = 2005\ GQ_{229}$
2003 $AY_{22} = 2012\ SZ_{21} = 2015\ YO$
2003 $BA_{95} = 2008\ SV_{213}$
2003 $FJ = 2016\ DP_{31}$
2003 $GD_{53} = 2015\ SL_{19}$
2003 $SQ_{35} = 2011\ UR_{108} = 2015\ EX_{72} = 2016\ PU_{39}$
2003 $SK_{42} = 2017\ FX_{33}$
2003 $SU_{175} = 2013\ CX_{191}$
2003 $SA_{435} = 2002\ GD_{53}$
2003 $UA_{32} = 2015\ FF_{318} = 2016\ WB_{20}$
2003 $UK_{326} = 2014\ SA_{153}$
2003 $WY_{154} = 2017\ QG_{34}$
2003 $YN_{2} = 2015\ MF_{23}$
2003 $YS_{110} = 2012\ BP_{35} = 2014\ WA_{495} = 2016\ TO_{10}$
2004 $BR_{24} = 2017\ QO_{15}$
2004 $BX_{163} = 2010\ GK_{49}$
2004 $BY_{163} = 2009\ MR_{7}$
2004 $BZ_{163} = 2010\ BK_{104}$
2004 $DO_{1} = 2015\ EJ_{65}$
2004 $GK_{85} = 2005\ JE_{118} = 2016\ GK_{184}$
2004 $KO_{19} = 2005\ NF_{51}$
2004 $NM_{25} = 2016\ AS_{26}$
2004 $RE_{15} = 2017\ SN_{1}$
2004 $SZ_{52} = 2017\ SK_{9}$
2004 $TV_{91} = 2016\ GK_{229} = 2017\ SS_{8}$
2004 $TJ_{215} = 2017\ ON_{29}$
2004 $TU_{226} = 2015\ VR_{42}$
2004 $TX_{228} = 2006\ DD_{194} = 2017\ PW_{12}$
2004 $TP_{314} = 2014\ KW_{22}$
2004 $TX_{359} = 2016\ HN_{22} = 2017\ OM_{27}$
2004 $VR_{54} = 2016\ NP$
2004 $XS_{157} = 2010\ EM_{153} = 2012\ QJ = 2014\ WJ_{216} = 2016\ AW_{86}$
2004 $XV_{182} = 2013\ AR_{76}$
2005 $EQ_{59} = 2015\ FR_{8}$
2005 $ED_{169} = 2012\ HD_{8}$
2005 $EY_{225} = 2011\ SU_{100}$
2005 $EQ_{252} = 2003\ ST_{214}$
2005 $GH_{18} = 2015\ FS_{61}$
2005 $GB_{117} = 2015\ FR_{369}$
2005 $HJ_{2} = 2017\ DL_{35}$
2005 $JQ_{47} = 2010\ GJ_{118} = 2015\ HX_{42}$
2005 $JT_{109} = 2014\ WT_{381}$
2005 $JT_{149} = 2014\ WR_{249}$
2005 $JR_{161} = 2017\ OG_{26}$
2005 $QK_{95} = 2008\ UN_{364} = 2016\ NJ_{38}$
2005 $QS_{115} = 2015\ BQ_{92}$
2005 $RW_{25} = 2012\ EU_{18}$
2005 $RO_{52} = 2014\ XH_{8}$
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2005 $TU_{123} = 2007\ EP_{38} = 2013\ TG_{90} = 2015\ GK_{4}$
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2006 $CG_{26} = 2011\ FW_{89} = 2017\ PO_{3}$
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2006 $PB_{26} = 2017\ QY$
2006 $QY_{4} = 2017\ OH_{49}$
2006 $QT_{67} = 2017\ PE_{17}$
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2006 $SA_{254} = 2017\ PW_{22}$
2006 $TR_{31} = 2017\ OQ_{50}$

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2006 TC_{129} = 2017 RP_{11}
2006 UH_{22} = 2014 RB_{51}
2006 UK_{149} = 2006 UC_{327} = 2014 QE_{28} = 2015 XF_{133}
2006 UJ_{208} = 2017 OW_{63}
2006 UW_{362} = 2005 QP_{118}
2006 WQ_{3} = 2014 JO_{79}
2006 XH_{55} = 2016 GK_{215}
2006 YV_{43} = 2014 YU_{32}
2007 BB_{103} = 2013 PY_{2}
2007 DY_{94} = 2009 JX_{4} = 2011 JY_{9}
2007 EM_{86} = 2002 FD_{5}
2007 EV_{94} = 2016 QQ_{24}
2007 EN_{224} = 2015 FZ_{292}
2007 FW = 2016 WB_{3}
2007 GM_{41} = 2013 TO_{30}
2007 JV_{43} = 2012 BV_{95}
2007 RJ_{124} = 2017 PX_{7}
2007 RV_{226} = 2017 RZ_{5}
2007 RP_{277} = 2008 YB_{67} = 2015 RV_{115}
2007 TP_{43} = 2015 TC_{87}
2007 TP_{137} = 2017 QR_{31}
2007 TH_{393} = 2015 XN_{165}
2007 TZ_{454} = 1999 YW_{16} = 2010 CD_{192} = 2010 TA_{54}
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2007 VV_{337} = 2006 SW_{189} = 2011 GR_{86}
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2007 YK_{32} = 2016 AL_{188}
2007 YK_{75} = 2006 SP_{279}
2008 AO_{88} = 2017 OX_{45}
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2012 YR_{5} = 2014 OT_{389}
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2013 GQ_{10} = 2016 LH_{9}
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2014 $\mathrm{SG}_{337} = 2014\ \mathrm{VX}_{37}$
2014 $\mathrm{SH}_{341} = 2016\ \mathrm{GN}_{193}$
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2015 BK_{442} = 2006 KV_{76}
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2017 QU_{7} = 2016 EK_{21}
2017 QK_{8} = 2010 TC_{128}
2017 QN_{8} = 2010 RM_{77}
2017 QO_{8} = 2007 RP_{88} = 2014 WJ_{105}
2017 QQ_{8} = 2016 AD_{123}
2017 QT_{8} = 2010 VY_{166}
2017 QB_{9} = 2010 RS_{176}
2017 QG_{9} = 2016 EN_{26}
2017 QJ_{9} = 1999 TX_{293} = 2010 UK_{23}
2017 QN_{9} = 2007 TS_{206} = 2015 BR_{406}
2017 QO_{9} = 2003 UW_{365} = 2010 TK_{93}
2017 QQ_{9} = 2006 CU_{24}
2017 QH_{10} = 2010 UT_{18}
2017 QO_{11} = 2004 TG_{26} = 2006 BJ_{172} = 2015 BG_{485}
2017 QQ_{11} = 2012 TE_{84}
2017 QR_{11} = 2001 FK_{228}
2017 QX_{11} = 1998 UV_{12}
2017 QE_{12} = 2009 FN_{60}
2017 QO_{12} = 2004 YM_{31} = 2016 FG_{49}
2017 QP_{12} = 2014 WO_{176}
2017 QT_{13} = 2007 MJ_{25}
2017 QU_{13} = 2013 TE_{34} = 2015 EM_{55}
2017 QV_{13} = 2010 TS_{106}
2017 QY_{13} = 1999 RZ_{249} = 2015 DM_{168}
2017 QA_{14} = 2015 BY_{253}
2017 QB_{14} = 2013 JR_{18}
2017 QC_{14} = 2011 UM_{320} = 2014 TX_{38}
2017 QD_{14} = 2010 RC_{35}
2017 QN_{14} = 2009 CS_{9}
2017 QZ_{14} = 1999 UJ_{21} = 2010 UX_{17}
2017 QB_{15} = 2006 DU_{87} = 2015 BV_{266}
2017 QC_{15} = 2008 SN_{85}
2017 QM_{15} = 2010 MJ_{106} = 2016 LK_{43}
2017 QG_{16} = 2009 WC_{98} = 2010 RC_{187} = 2010 VH_{135} = 2015 FF_{39}
2017 QM_{16} = 1992 RE_{4} = 2010 HN_{88} = 2017 MZ_{7}
2017 QW_{16} = 2012 QW_{39}
2017 QY_{17} = 2016 BT_{1}
2017 QB_{18} = 2013 RP_{9}
2017 QO_{18} = 2009 CP_{10} = 2016 BX_{45}
2017 QQ_{18} = 2007 UH_{15}
2017 QZ_{18} = 2010 LW_{26} = 2016 FC_{58}
2017 QA_{19} = 2009 HW_{58}
2017 QH_{19} = 2015 AU_{4}
2017 QM_{19} = 2016 ER_{133}
2017 QN_{19} = 2015 BW_{28}

2017 QV_{19} = 2011 HE_{21} = 2015 BF_{158}
2017 QW_{19} = 2009 HU_{1}
2017 QD_{20} = 2006 UU_{307} = 2016 HB_{7}
2017 QG_{20} = 2012 SB_{7}
2017 QH_{20} = 2012 JZ_{36}
2017 QM_{20} = 2002 QM_{129}
2017 QY_{20} = 2013 PD_{22}
2017 QC_{22} = 2015 BH_{436}
2017 QD_{22} = 2010 AE_{58}
2017 QH_{22} = 2004 RE_{243} = 2016 GP_{86}
2017 QQ_{22} = 2010 GJ_{129} = 2015 DV_{90}
2017 QZ_{22} = 2012 CP_{7}
2017 QC_{23} = 2012 LP_{19}
2017 QE_{23} = 2007 EN_{57} = 2015 DF_{146}
2017 QP_{23} = 2016 BP_{9}
2017 QU_{23} = 2002 QG_{157}
2017 QX_{23} = 2011 JL_{25}
2017 QY_{23} = 2005 HL = 2016 CY_{211}
2017 QG_{24} = 2004 RB_{287}
2017 QR_{24} = 2012 UR_{146}
2017 QS_{24} = 2015 DB_{212}
2017 QV_{24} = 1995 UW_{62}
2017 QX_{24} = 2014 TU_{64} = 2016 CO_{120}
2017 QZ_{24} = 2016 FQ_{58}
2017 QA_{25} = 2006 CX_{66}
2017 QB_{25} = 2015 FT_{221}
2017 QK_{25} = 2003 RO_{13}
2017 QM_{25} = 2012 PH_{33} = 2013 WA_{93} = 2015 BP_{471}
2017 QR_{25} = 2011 OQ_{33}
2017 QV_{25} = 2003 SC_{293}
2017 QH_{26} = 2008 UV_{300}
2017 QD_{27} = 2001 UY_{229}
2017 QE_{27} = 2005 RW_{49}
2017 QX_{27} = 2008 XX_{38}
2017 QM_{28} = 2001 SN_{85}
2017 QO_{28} = 2015 DJ_{15}
2017 QP_{29} = 2012 VB_{112}
2017 QL_{30} = 2013 XY_{16} = 2015 FN_{85}
2017 QY_{30} = 2010 GV_{86}
2017 QB_{31} = 2000 TC_{67}
2017 QJ_{31} = 2015 DU_{147}
2017 QJ_{32} = 2003 KN_{1} = 2016 GY_{203}
2017 QC_{33} = 2017 OT_{30}
2017 QL_{34} = 2012 HN_{25}
2017 QQ_{34} = 2010 RH_{163}
2017 QJ_{35} = 2008 OG_{11}
2017 QD_{36} = 2011 AG_{22}
2017 QE_{36} = 2006 BJ_{57} = 2009 WA_{6}
2017 QF_{36} = 2013 RY_{73}
2017 QG_{36} = 2015 FH_{187}
2017 QL_{36} = 1999 VW_{117}
2017 RD = 2012 XF_{110}
2017 RH = 2005 MU_{13}
2017 RJ = 2013 VS_{21}
2017 RM = 2004 KA_{13}
2017 RN = 2009 RM_{65} = 2013 UP
2017 RQ = 2015 DF_{88}
2017 RA_{1} = 2015 XU_{387}
2017 RB_{1} = 2015 XU_{388}
2017 RC_{1} = 2013 WW_{43}
2017 RN_{1} = 2013 YZ_{109}
2017 RP_{1} = 2017 SP_{17}
2017 RS_{1} = 2016 EU_{55}
2017 RB_{2} = 2016 DS_{1}
2017 RE_{2} = 2003 SX_{130}
2017 RZ_{2} = 2008 UG_{363}
2017 RE_{3} = 2008 OZ_{11}
2017 RK_{3} = 2015 FW_{230}
2017 RV_{3} = 2010 GX_{7}
2017 RW_{3} = 2012 JW_{56}
2017 RT_{4} = 2009 RL_{66}
2017 RE_{5} = 2015 BP_{419}
2017 RQ_{5} = 2008 RT_{58} = 2016 GC_{174}
2017 RR_{5} = 2003 SU_{20}
2017 RA_{6} = 2010 TB_{157}
2017 RB_{7} = 2010 KH_{96}
2017 RC_{7} = 2012 XZ_{86}
2017 RS_{7} = 2004 RS_{351}
2017 RW_{7} = 2007 RD_{57} = 2007 TT_{358}
2017 RG_{8} = 2009 DU_{86}
2017 RN_{8} = 2016 EG_{122}
2017 RP_{8} = 2010 UT_{25} = 2010 UP_{63} = 2015 AY_{141}
2017 RR_{8} = 2015 BY_{228}
2017 RT_{8} = 2015 DM_{16}
2017 RT_{9} = 1998 SL_{19}
2017 RX_{9} = 2015 BQ_{492}
2017 RE_{10} = 2010 WJ_{37} = 2015 FF_{6}
2017 RJ_{10} = 2006 RO_{51} = 2015 BD_{313}
2017 RN_{10} = 2005 GN_{173} = 2014 WU_{423}
2017 RU_{10} = 2015 GG_{15}
2017 RM_{11} = 2013 WT_{100}
2017 RZ_{11} = 2008 WR_{20} = 2015 FF_{270}
2017 RB_{12} = 2013 TT_{107}
2017 RP_{12} = 2007 TF_{142}
2017 RQ_{12} = 1994 WT_{9}
2017 RU_{12} = 2011 CC_{54}
2017 RY_{12} = 2005 WE_{61}
2017 RU_{13} = 2011 QH_{31}
2017 RY_{13} = 2004 JY_{9} = 2015 GJ_{49}
2017 RF_{14} = 2015 XM_{168} = 2017 QJ_{1}
2017 RG_{14} = 2013 TR_{79}
2017 RN_{14} = 2017 QV_{2}
2017 RW_{14} = 2004 EG
2017 RY_{14} = 2004 ES_{21}

2017 RZ_{16} = 2015 FU_{220}
2017 RE_{17} = 2012 BU_{69}
2017 RM_{17} = 2008 DT_{49}
2017 SG = 2015 BT_{457}
2017 SK = 2004 XB_{180} = 2014 YV_{16} = 2016 GD_{122}
2017 SV = 2014 AT_{35} = 2015 DV_{96}
2017 SO_1 = 2013 PR_{20}
2017 SP_1 = 2014 HP_{124}
2017 SX_1 = 2017 OO_6
2017 SB_2 = 2007 PZ_3 = 2015 YG_{10}
2017 SC_2 = 1999 TC_{139} = 2012 VB_2
2017 SZ_2 = 2016 AX_{192}
2017 SG_3 = 2015 DQ_{98}
2017 SP_4 = 2004 XO_{148} = 2015 HV_{52}
2017 SQ_4 = 2007 VH_{55}
2017 SV_4 = 2011 HP_{57} = 2015 DJ_{37}
2017 SA_5 = 2011 GN_{56}
2017 SD_5 = 2001 QM_{310}
2017 SX_5 = 2006 WR_{114} = 2015 BS_{326}
2017 SK_6 = 2010 JP_{167}
2017 ST_6 = 1995 UH_{52}
2017 SO_7 = 2003 SU_{397} = 2012 PZ_{36} = 2016 LH_{14}
2017 SU_7 = 2015 FP_{130}
2017 SA_8 = 2010 GO_{82}
2017 SQ_8 = 1997 CO_8 = 2005 NE_{55} = 2010 EU_{156}
2017 ST_8 = 2004 TF_{313} = 2011 FU_{74} = 2015 AN_{233}
2017 SA_9 = 2006 PG_4 = 2015 ER_{13}
2017 SG_9 = 2016 DO_{21}
2017 SS_9 = 2015 BF_{53}
2017 SU_9 = 2003 QO_8
2017 SV_9 = 2009 WU_{198} = 2013 TY_{112}
2017 SW_9 = 2010 RW_{96}
2017 SY_9 = 2014 WM_{450}
2017 SZ_9 = 2012 DU_{91} = 2014 YN_{34}
2017 SD_{10} = 2009 SR_{98}
2017 SE_{10} = 2012 TF_{294}
2017 SX_{10} = 2013 SF_{21}
2017 SB_{11} = 2011 HC_{81} = 2012 XH_{134}
2017 SA_{13} = 2011 CR_{91}
2017 SC_{13} = 2016 AP_{171}
2017 SO_{13} = 2016 EW_{156}
2017 SU_{13} = 2010 TQ_{140}
2017 SW_{13} = 2012 TZ_{51}
2017 SY_{13} = 2010 CD_{90}
2017 SP_{15} = 2006 QV_{80}

NEW NAMES OF MINOR PLANETS

(7175) Janegoodall = 1988 TN_2

Discovered 1988 Oct. 11 by Z. Vávrová at Kleť.

Jane Morris Goodall (b. 1934) is an English primatologist, ethologist, antropologist and UN Messenger of Peace. She has dedicated her life to the study of chimpanzees and fighting to save their habitat. Founder of the Jane Goodall Institute in 1977, she has received many honours for her environmental and humanitarian work.

(7218) Skácel = 1979 SK

Discovered 1979 Sept. 19 by J. Květoň at Kleť.

Jan Skácel (1922–1989), Czech poet of South Moravian origin, was one of the most beloved Czech poets of the last century. He wrote about human life, love, morals, dreams and nature in poems or just quatrains, as *Hope with Wings of Beech* shows. Skácel was awarded the German international literary Petrarca-Preis in 1989.

(7294) Barbaraakey = 1992 LM

Discovered 1992 June 3 by G. J. Leonard at Palomar.

Named in honor of the discoverer's wife, Barbara Ann (Akey) Leonard (b. 1968), who is cherished and loved by her husband, beyond measure.

(7502) Arakida = 1996 VP_7

Discovered 1996 Nov. 15 by Y. Shimizu and T. Urata at Nachi-Katsuura.

Hideyoshi Arakida (b. 1973) is an associate professor at Nihon University, who specializes in celestial mechanics, including solar system dynamics. His latest research interests are the null structure of spacetime and the effect of cosmological constant on the local system.

(7533) Seiraiji = 1995 UE_6

Discovered 1995 Oct. 25 by Y. Shimizu and T. Urata at Nachi-Katsuura.

Seiraiji is a Japanese Temple built in Sumoto, Japan, around 1000 CE, in the late Heian era. This Buddhist temple with graves is located on the small hill Kyukosan, which was made by rivers in a delta area.

(10258) Sárneczky = 1940 AB

Discovered 1940 Jan. 6 by G. Kulin at Konkoly.

Krisztián Sárneczky (b. 1974) is a Hungarian asteroid and comet researcher at Konkoly Observatory, who discovered 363 numbered asteroids and five supernovae. He is a very active science communicator, and the leader of the Comet Section of the Hungarian Astronomical Association.

(15347) Colinstuart = 1994 UD

Discovered 1994 Oct. 26 by B. G. W. Manning at Stakenbridge.

Colin Stuart (b. 1986) is a British astronomy writer and presenter. He has given public astronomy talks to over 250,000 people in schools and at the Royal Observatory Greenwich, written many popular astronomy articles and space books. In 2014 he was runner up in the European Astronomy Journalism Prize.

(15387) Hanazukayama = 1997 SQ_{17}

Discovered 1997 Sept. 30 by T. Okuni at Nanyo.

Hanazukayama is a 918-m mountain situated along the border between Kawamata town and Iitate village in Fukushima prefecture. It is officially recognized as the most northerly mountain from which Mt. Fuji is visible: 308 km away.

(15742) Laurabassi = 1991 LB_4

Discovered 1991 June 6 by E. W. Elst at the European Southern Observatory.

Laura Bassi (1711–1778) was the first woman to receive a philosophical degree in physics at a European university (Bologna). Not allowed to teach, she gave lectures on physics and performed experimental demonstrations, based on Newton's *Principia*, at her home. Name suggested by K. Leterme.

(18290) Sumiyoshi = 1977 DR_2

Discovered 1977 Feb. 18 by H. Kosai and K. Hurukawa at Kiso.

Sumiyoshi, in the south of Osaka prefecture, is an important port for trade between Japan and the Korean Peninsula. The Sumiyoshi Taisha shrine, a guardian of voyage, was founded in 211. At shrine, there is a lighthouse, belived to be the oldest in Japan.

(18291) Wani = 1977 DL_4

Discovered 1977 Feb. 18 by H. Kosai and K. Hurukawa at Kiso.

Wani was a scholar who came to Japan from Korea in the second half of the 4th century. He brought ten volumes of *The Analects of Confucius* and one volume of the *Thousand Character Classic* to Japan.

(18302) Körner = 1980 FL_3

Discovered 1980 Mar. 16 by C.-I. Lagerkvist at the European Southern Observatory.

Harald Körner (1881–1953) was headmaster of the private elementary school in Lund from 1916 to 1944, and a proponent of education for girls.

(18441) Cittadivinci = 1994 PE

Discovered 1994 Aug. 5 by A. Boattini and M. Tombelli at San Marcello.

Vinci is a small beautiful village in Tuscany, where the great genius Leonardo da Vinci was born in 1452. For this reason it is visited by thousands of people each year, eager to visit either the museum or see Leonardo's machines.

(18609) Shinobuyama = 1998 BN_{48}

Discovered 1998 Jan. 30 by T. Seki at Geisei.

Shinobuyama, called "Fuku-Shima" many centuries ago, is a small mountain in Fukushima city, Japan. This beloved mountain is the symbol of the city.

(18632) Danielsson = 1998 DN_{37}

Discovered 1998 Feb. 28 by C.-I. Lagerkvist at the European Southern Observatory.

Ann-Kristin "Kikki" Danielsson (b. 1952) is a well-known and popular country singer from Sweden.

(20080) Maeharatorakichi = 1994 EO_1

Discovered 1994 Mar. 7 by K. Endate and K. Watanabe at Kitami.

Torakichi Maehara (1872–1950) was an amateur astronomer and one of the charter members of the Astronomical Society of Japan, which was founded in 1908. He established his own observatory and made many visual and photographic observations, including Halley's comet in 1910.

(20096) Shiraishiakihiko = 1994 TZ

Discovered 1994 Oct. 2 by K. Endate and K. Watanabe at Kitami.

Akihiko Shiraishi (b. 1952) is a writer-editor at Asahi Press. He writes frequently about astronomy and space development.

(21015) Shigenari = 1988 UF

Discovered 1988 Oct. 16 by T. Fujii and K. Watanabe at Kitami.

Shigenari Oonishi (b. 1946) is a famous illustrator, who has designed many record covers. He opened his private art museum, Shigechan Land, in his hometown (Tsubetsu town, Hokkaido, Japan) in 2001.

(25163) Williammcdonald = 1998 SC_{60}

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

William "Bill" McDonald (b. 1935) is an avid amateur astronomer. He has volunteered in Lowell Observatory's evening outreach programs since 2012, spearheading the reintroduction of the public program's video observing system (Mallincam) and assisting staff with its upgrade and maintenance.

(25165) Leget = 1998 SK_{62}

Discovered 1998 Sept. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Robert Leget (b. 1935) is an American educator who taught high school earth science, chemistry and math for 30 years, mostly at Buckeye High in Medina, Ohio. Named Outstanding Secondary Earth Science Teacher for Ohio by the National Assoc. of Geology Teachers, he inspired generations of students.

(25230) Borgis = 1998 TT_{31}

Discovered 1998 Oct. 11 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Steven Borgis (b. 1953) is an American educator and coach, who taught language arts for three decades at Buckeye Junior High School in Medina, Ohio. He coached both girls and boys basketball, as well as football, cross country, golf, volleyball, and softball, and inspired students with both his words and his actions.

(25383) Lindacker = 1999 UN_1

Discovered 1999 Oct. 18 at Kleť.

Jan Tadeáš Lindacker (1768–1816) was a Czech geologist and botanist. He worked in Osek, near Rokycany, in iron ore mines, where he assembled an unique collection of Carboniferous fossil plants and minerals and joined it with that of Kaspar Maria von Sternberg. The collection was donated to the National Museum in Prague.

(25913) Jamesgreen = 2001 CB_{29}

Discovered 2001 Feb. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

James L. Green (b. 1951) is an American space physicist who has published widely on the Earth's and Jupiter's magnetospheres, as well as data systems and networks. As director of NASA's Planetary Science Division, he has overseen missions that explored Pluto, Mercury, Jupiter, Mars, the Moon and asteroids.

(25945) Moreadalleore = 2001 EQ_{10}

Discovered 2001 Mar. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Cristina Morea Dalle Ore (b. 1958) is an Italian-American astronomer who has published papers on stellar atmospheres and planetary science. As a team associate on NASA's New Horizons mission to Pluto and the Kuiper Belt, she developed complex techniques for the spectral analysis of planetary surfaces.

(26732) Damianpeach = 2001 HB_{16}

Discovered 2001 Apr. 22 by W. K. Y. Yeung at Desert Beaver.

Damian Peach (b. 1978) is a British planetary observer and core member of the British Astronomical Association who makes tremendous contributions to planetary imaging and promoted amateur-professional collaboration. His outstanding planetary images have been published in astronomical and scientific publications.

(29220) Xavierbaptista = 1992 BC_2

Discovered 1992 Jan. 30 by E. W. Elst at the European Southern Observatory.

Francisco Xavier Baptista (1730–1797) was a Portuguese composer from Lisbon where he was the first organist at the Cathedral of St. Mary. He wrote many harpsichord sonatas, toccatas and minuets that can also be played easily on the organ.

(31429) Diegoazzaro = 1999 BL_7

Discovered 1999 Jan. 21 by V. S. Casulli at Colleverde.

Diego Azzaro (1925–2014) was an Italian amateur astronomer. A popularizer of astronomy, he was president of the association ASTRIS and Astronomical Observatory of Cervara di Roma.

(31848) Mikemattei = 2000 EM_{21}

Discovered 2000 Mar. 3 by the Catalina Sky Survey.

Michael Mattei (b. 1940) worked at Harvard College Observatory Agassiz Station as a young man moving to optics with various institutions and companies culminating in his work with M.I.T. Lincoln Labs working on projects from microscope optics to space telescopes.

(32622) Yuewaichun = 2001 RZ_{16}

Discovered 2001 Sept. 11 by W. K. Y. Yeung at Desert Eagle.

Yue Wai-Chun (b. 1954), a veteran amateur astronomer, was the coordinator of IOTA China division. He had made tremendous contribution to astronomy in numerous ways, including distributing daily astronomy news through Hong Kong Astronomical Society's smart phone apps to tens of thousands of astronomy lovers.

(32945) Lecce = 1995 WR_5

Discovered 1995 Nov. 24 by V. S. Casulli at Colleverde.

Lecce, in southern Italy, is the capital of the province of Lecce. Because of the rich Baroque architectural monuments found in the city, it is commonly nicknamed "The Florence of the South". The city also has a long traditional affinity with Greek culture going back to its foundation.

(33002) Everest = 1997 DM

Discovered 1997 Feb. 17 by V. S. Casulli at Colleverde.

Mount Everest (also known as Sagarmātā in Nepal and Chomolungma in China) is the world's highest mountain. The summit is 8848 m above sea level.

(33347) Maryzhu = 1998 XJ_{35}

Discovered 1998 Dec. 14 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Mary Zhu (b. 1998) was a finalist in the 2017 Regeneron STS, and was awarded 2nd place at the 2016 ISEF for her behavioral and social sciences project. She attends the Nashua High School South, Nashua, New Hampshire.

(34791) Ericcraine = 2001 SU_4

Discovered 2001 Sept. 18 by R. A. Tucker at Goodricke-Pigott.

Eric Craine (b. 1946) has been involved in astronomy for nearly 50 years and has published over one hundred research papers and five books. His work includes quantitative sky brightness measurements, stellar photometry and spectroscopy, astronomy education, and medical applications of astronomical imaging techniques.

(35239) Ottoseydl = 1995 SH_2

Discovered 1995 Sept. 25 by M. Tichý and Z. Moravec at Kleť.

Otto Seydl (1884–1959), Czech populariser of astronomy, worked on stellar statistics and later on history of astronomy in Bohemia. He served as the director of the State Observatory in Klementinum in Prague (1939–1942 and 1945–1948). He was a member of the IAU and The Czech Astronomical Society.

(37627) Lucaparmitano = 1993 TD

Discovered 1993 Oct. 11 by V. S. Casulli at Colleverde.

Luca Parmitano (b. 1976) is an Italian engineer and astronaut in the European Astronaut Corps for the European Space Agency.

(37646) Falconscott = 1994 CS_{13}

Discovered 1994 Feb. 8 by E. W. Elst at the European Southern Observatory.

Robert Falcon Scott (1868–1912) was the first British explorer to reach the South Pole and explore Antarctica extensively by land.

(37683) Gustaveeiffel = 1995 KK

Discovered 1995 May 19 by V. S. Casulli at Colleverde.

Gustave Eiffel (1832–1923) was a French civil engineer and architect. He is best known for the Eiffel Tower, built for the 1889 Universal Exposition in Paris.

(37735) Riccardomuti = 1996 VL

Discovered 1996 Nov. 1 by V. S. Casulli at Colleverde.

Riccardo Muti (b. 1941) is an Italian conductor. He holds three music directorships: the Chicago Symphony Orchestra; the Philadelphia Orchestra; and the Teatro alla Scala in Milan. Muti has been a prolific recording artist and has received dozens of honors, titles, awards and prizes.

(37853) Danielbarbier = 1998 DB_{35}

Discovered 1998 Feb. 27 by E. W. Elst at the European Southern Observatory.

Daniel Barbier (1907–1965), a French observational astronomer, made significant contributions to the study of the background of the night sky. He turned his interest to the 6300 Å forbidden line of neutral oxygen by measuring the variations of its strength with the height in the ionosphere where it is emitted.

(39860) Aiguoxiang = 1998 DY_7

Discovered 1998 Feb. 17 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Ai Guoxiang (b. 1938) is a solar astrophysicist, an Academician of the Chinese Academy of Sciences (CAS), and an Academician of TWAS. He was the first Director General of the National Astronomical Observatories, CAS, and served as Vice-President and President of IAU Commission 10 from 1994–2000.

(40248) Yukikajiura = 1998 XF_5

Discovered 1998 Dec. 12 by R. A. Tucker at Goodricke-Pigott.

Yuki Kajiura (b. 1965) is a Japanese composer and musical producer. She has composed the soundtrack music for many anime films and has formed the musical groups FictionJunction and Kalafina.

(40775) Kalafina = 1999 TO_{20}

Discovered 1999 Oct. 5 by R. A. Tucker at Goodricke-Pigott.

A Japanese vocal group formed in 2007 by composer Yuki Kajiura to produce the soundtrack music for the anime "Kara no Kyoukai", also known in English as "The Garden of Sinners". Their popularity has grown and they are now a neoclassical pop group presenting frequent concerts in Japan and internationally.

(41795) Wiens = 2000 WN_{12}

Discovered 2000 Nov. 22 by NEAT at Haleakala.

Roger Wiens (b. 1960) is deeply involved in space missions. He is the Principal Investigator behind ChemCam, a laser spectroscopy instrument onboard the Mars Curiosity Rover. Name and citation provided by S. Le Mouelic.

(42522) Chuckberry = 1994 CB_{17}

Discovered 1994 Feb. 8 by E. W. Elst at the European Southern Observatory.

Chuck Berry (Charles Edward Anderson, 1926–2017) was an American guitarist, singer and songwriter. He was one of the pioneers of rock and roll.

(44473) Randytatum = 1998 WB

Discovered 1998 Nov. 16 by the Catalina Sky Survey.

Randy Tatum (b. 1956) is an avid observer with the Association of Lunar and Planetary Observers (ALPO) and has served as Assistant Coordinator for the Jupiter and Solar Sections of the ALPO as well as full Solar Coordinator from 1993–96. He is the 2016 recipient of the ALPO Haas Award for his prolific and expert observing.

(45685) Torrycoppin = 2000 EA_{139}

Discovered 2000 Mar. 11 by the Catalina Sky Survey.

Torry Coppin (1950–1993) was an amateur astronomer and an electronics engineer for radio stations in the Sarasota, Florida area.

(47171) Lempo = 1999 TC_{36}

Discovered 1999 Oct. 1 by E. P. Rubenstein and L.-G. Strolger at Kitt Peak.

Lempo is the ancient Finnish devil who, with the help of his two demon cohorts, Hiisi and Paha, brought down the hero Väinämöinen. Within the trans-Neptunian triple system, the satellite (47171) Lempo I was discovered on 2001 Dec. 8 by C. A. Trujillo and M. E. Brown using the Hubble Space Telescope (HST), and is named Paha. The primary was identified as a binary by S. D. Benecchi *et al.* through re-analysis of the HST data originally obtained by Trujillo and Brown. Lempo refers to the larger component of the central binary and Hiisi to the the smaller component.

(54863) Gasnault = 2001 OG_{28}

Discovered 2001 July 18 by NEAT at Palomar.

Olivier Gasnault (b. 1973) specializes in remote sensing and is deeply involved in the exploration of the Moon and Mars, both from orbit and on the ground with the Curiosity Rover. Name and citation provided by S. Le Mouelic.

(57509) Sly = 2001 SY_{270}

Discovered 2001 Sept. 16 by NEAT at Palomar.

As an astronomer, Sylvestre (Sly) Maurice (b. 1966) specializes in the exploration of the Solar System with a focus on the Moon and Mars. He has been a leader in the development of instruments for rovers for the exploration of Mars. Name and citation provided by S. Le Mouelic.

(65785) Carlafracci = 1995 UC_5

Discovered 1995 Oct. 26 by V. S. Casulli at Colleverde.

Carla Fracci (b. 1936) is an Italian classical dancer, famed for her interpretations of romantic and dramatic roles.

(65821) De Curtis = 1996 UC_3

Discovered 1996 Oct. 30 by V. S. Casulli at Colleverde.

Antonio De Curtis (1898–1967), nicknamed "Tot", was an Italian artist, comedian, film and theatre actor, writer, singer and songwriter.

(69261) Philaret = 1982 YM_1

Discovered 1982 Dec. 23 by L. G. Karachkina at Nauchnyj.

Philaret (Vasily Mikhailovich Drozdov, 1783–1867), metropolitan bishop of Moscow and Kolomna, was an honorary member of the Imperial Academy of Sciences, and ordinary academician in the Department of Russian Language and Literature. Name suggested by N. N. Drozdov.

(69460) Christibarnard = 1996 UO_1

Discovered 1996 Oct. 17 by V. S. Casulli at Colleverde.

Christiaan Barnard (1922–2001) was a South African cardiac surgeon who performed the world's first human-to-human heart transplant in 1967 .

(73872) Stefanoragazzi = 1997 AO_{17}

Discovered 1997 Jan. 7 by V. S. Casulli at Colleverde.

Stefano Ragazzi (b. 1954) is a professor at the Milan Bicocca University and director of Gran Sasso National Laboratory INAF.

(83657) Albertosordi = 2001 TV_{13}

Discovered 2001 Oct. 12 by V. S. Casulli at Colleverde.

Alberto Sordi (1920–2003) was an Italian actor, director, comedian, screenwriter, composer, singer and songwriter.

(90806) Rudaki = 1995 AE

Discovered 1995 Jan. 4 by V. S. Casulli at Colleverde.

Rudaki (858–941) was a Persian poet, considered the founder of classical Persian literature.

(100028) von Canstein = 1990 TZ_9

Discovered 1990 Oct. 10 by F. Börngen and L. D. Schmadel at Tautenburg.

Carl Hildebrand Freiherr von Canstein (1667–1719) established the Cansteinsche Bible Society in Halle (Saale) in 1710. The society's purpose was to produce Bibles as quickly and as cheaply as possible, using a new printing technique. Von Canstein was a friend of August Hermann Francke.

(100046) Worms = 1991 TT_6

Discovered 1991 Oct. 2 by F. Börngen and L. D. Schmadel at Tautenburg.

Worms is one of the oldest German towns and has a Romanesque cathedral and the oldest extant Jewish cemetery in Europe. In 1521, the Diet of Worms issued an edict declaring Martin Luther to be a heretic.

(107054) Daniela = 2001 AB_2

Discovered 2001 Jan. 1 by P. Kušnirák at Ondřejov.

Daniela Rapavá (b. 1956) is a Slovak astronomer who is a popularizer of the natural sciences, including ecological science. She creates beautiful and unusal photography of physical phenomena, and is the founder of The Inventive Astropark at Rimavská Sobota Observatory.

(117387) Javiercerna = 2004 YP_{21}

Discovered 2004 Dec. 18 by Mt. Lemmon Survey at Mount Lemmon.

Javier Cerna (b. 1981) is a Telecom Engineer for the OSIRIS-REx Asteroid Sample Return Mission. He was also a Telecom Engineer on the GRAIL program, and the Telecom UHF Transceiver lead on the InSight program.

(117388) Jamiemoore = 2004 YB_{23}

Discovered 2004 Dec. 18 by Mt. Lemmon Survey at Mount Lemmon.

Jamie Moore (b. 1986) is a flight system contamination control engineer and spacecraft-curation interface at Lockheed Martin for the OSIRIS-REx Mission. She has supported multiple NASA interplanetary missions helping to ensure that contamination control requirements are met.

(117614) Hannahmclain = 2005 EU_{94}

Discovered 2005 Mar. 8 by Mt. Lemmon Survey at Mount Lemmon.

Hannah McLain (b. 1985) is an astrobiologist at the Goddard Space Flight Center supporting organic contamination analysis for the OSIRIS-REx Mission.

(117652) Joséaponte = 2005 EY$_{161}$

Discovered 2005 Mar. 9 by Mt. Lemmon Survey at Mount Lemmon.

José Aponte (b. 1981) is an astrobiologist at the Goddard Space Flight Center for the OSIRIS-REx Mission. His research emphasis is in organic chemistry in meteorites.

(117657) Jamieelsila = 2005 EP$_{187}$

Discovered 2005 Mar. 10 by Mt. Lemmon Survey at Mount Lemmon.

Jamie Elsila (b. 1974) is an astrobiologist at the Goddard Space Flight Center for the OSIRIS-REx Mission. Her research emphasis is in organic chemistry in meteorites and in spacecraft-returned samples from asteroids and comets.

(121725) Aphidas = 1999 XX$_{143}$

Discovered 1999 Dec. 13 by C. W. Hergenrother at Mount Hopkins.

During the battle between the Centaurs and Lapiths, the centaur Aphidas remained in a drunken sleep. The Lapith Phorbas killed Aphidas with a thrown spear while he slept.

(129327) Davehamara = 2005 TG$_{134}$

Discovered 2005 Oct. 10 by the Catalina Sky Survey.

Dave Hamara (b. 1960) served as lead electronic designer for the Camera Control Module on the OSIRIS-REx Asteroid Sample Return Mission OCAMS camera. He worked with gamma ray and neutron instruments and data on Mars Odyssey, Mars Phoenix, Messenger and Lunar Reconnaissance Orbiter missions

(129550) Fukuten = 1996 TN$_{14}$

Discovered 1996 Oct. 9 by T. Okuni at Nanyo.

Fukushima Tenmon Doukoukai is a local astronomical association with 40 members. It has hosted star-parties and photo exhibitions for Fukushima citizens since its establishment in 1968.

(129555) Armazones = 1996 UB$_3$

Discovered 1996 Oct. 30 by V. S. Casulli at Colleverde.

Cerro Armazones is a mountain located in Chile. The European Southern Observatory council selected it as the site for the planned European Extremely Large Telescope because of the excellent conditions for optical astronomy.

(134369) Sahara = 1995 QE

Discovered 1995 Aug. 17 by V. S. Casulli at Colleverde.

The Sahara desert is the world's largest hot desert. Located in north Africa, it stretches from the Red Sea to the Atlantic ocean.

(150118) Petersberg = 1993 SZ$_2$

Discovered 1993 Sept. 18 by F. Börngen and L. D. Schmadel at Tautenburg.

The Petersberg is a 250-m hill near of Halle (Saale), Germany. On the hill is an Abbey with its church St. Peter, formerly an Augustinian monastery. Since 1999 it has been an evangelical monastic community. The church served as a burial-place for members of the House Wettin, one of the oldest dynasties of German nobility.

(157396) Vansevicius = 2004 TM$_{216}$

Discovered 2004 Oct. 13 by K. Černis and J. Zdanavicius at Moletai.

Vladas Vansevicius (b. 1958) is a professor at the Astronomical Observatory of Vilnius University and an expert in extragalactic astronomy, astrochemistry, galactic structure and multicolor photometry of stars and star clusters. He is an author of more than 120 scientific papers and many popular science articles.

(160105) Gobi = 2000 SK$_{43}$

Discovered 2000 Sept. 26 by V. S. Casulli at Colleverde.

The Gobi desert is a large desert region in Asia, covering parts of southern Mongolia and northern/northwestern China. The Gobi is notable in history as part of the great Mongol Empire, and as the location of several important cities along the Silk Road.

(198634) Burgaymarta = 2005 AN$_{54}$

Discovered 2005 Jan. 15 at Vallemare Borbona.

Burgay Marta (b. 1976) is an Italian radio astronomer who discovered PSR J0737–3039, the first known binary pulsar.

(204816) Andreacamilleri = 2007 OZ

Discovered 2007 July 16 by V. S. Casulli at Vallemare Borbona.

Andrea Camilleri (b. 1925) is an Italian writer, screenwriter and director. He has received a number of honorary degrees from several Italian universities.

(210032) Enricocastellani = 2006 OC

Discovered 2006 July 16 by V. S. Casulli at Vallemare Borbona.

Enrico Castellani (b. 1930) is an Italian painter, considered one of the most important figures of mid-twentieth century European art. His works are among the most sought after and expensive of the period.

(211172) Tarantola = 2002 JX$_{10}$

Discovered 2002 May 2 by J. Dellinger and P. Sava at Needville.

Albert Tarantola (1949–2009) was a visionary geophysicist who made seminal contributions to Inverse Problem Theory. He was the first to use inversion methods to image the Earth's interior using seismic waveforms.

(212500) Robertojoppolo = 2006 RT

Discovered 2006 Sept. 4 by V. S. Casulli at Vallemare Borbona.

Roberto Joppolo (b. 1939) is an Italian sculptor. His main works are statues and church doors realized in bronze.

(218636) Calabria = 2005 SN$_4$

Discovered 2005 Sept. 24 by V. S. Casulli at Vallemare Borbona.

Calabria is a southern Italian region. The region is at the tip of the Italian peninsula and is predominantly hilly. Between the 8th and 4th centuries BCE, Calabria was a thriving Greek colony.

(224067) Colemila = 2005 NO$_{29}$

Discovered 2005 July 8 by J. W. Young at Wrightwood.

Cole Osmonson (b. 2016) and Mila Rodriguez (b. 2016) are great-grandchildren of the discoverer

(243000) Katysirles = 2006 TB$_{112}$

Discovered 2006 Oct. 1 by A. C. Becker at Apache Point.

Katherine Ann Sirles (1980–2016) was a sociologist and beloved teacher who studied the sociology of drugs, deviant behavior and gender.

(243591) Ignacostantino = 1998 RG$_3$

Discovered 1998 Sept. 15 by V. S. Casulli at Colleverde.

Ignazio Costantino (b. 1960) is a very enthusiastic Italian amateur astronomer. He is an electrionic engineer and a sailor.

(246167) Joskohn = 2007 RF$_8$

Discovered 2007 Sept. 5 by P. Kocher at Marly.

Jos Kohn (b. 1988) studied physics at the university of Fribourg, Switzerland. He promotes astronomy to more than 600 adults and children throughout the country

per year and is also a member of the observatory of Ependes, where he performs astronomy experiments with students.

(248388) Namtso = 2005 SE$_{19}$
Discovered 2005 Sept. 26 by V. S. Casulli at Vallemare Borbona.
Namtso Lake is a mountain lake in Tibet.

(249520) Luppino = 2010 CG$_{181}$
Discovered 2010 Feb. 14 by Pan-STARRS 1 at Haleakala.
Gerard A. Luppino (1959–2016) was an astronomer at the University of Hawaii, where he pioneered the construction of large-format mosaic CCD cameras for astronomy. He later formed GL Scientific, a company that fabricated instruments for many telescopes and space experiments.

(255587) Gardenia = 2006 OU$_{4}$
Discovered 2006 July 21 by V. S. Casulli at Vallemare Borbona.
Gardenia is a genus of flowering plants in the coffee family *Rubiaceae*. The genus was named after Alexander Garden, a Scottish-born American naturalist.

(267017) Yangzhifa = 1995 UA
Discovered 1995 Oct. 16 by V. S. Casulli at Colleverde.
Yang Zhifa (b. 1933) was a Chinese farmer and one of the discoverers of the first terracotta statues that constitute part of the mausoleum of China's first emperor, Qin Shi Huang.

(279397) Dombeck = 2010 DN$_{77}$
Discovered 2010 Feb. 16 by Pan-STARRS 1 at Haleakala.
Thomas W. Dombeck (1945–2016) received his Physics PhD from Northwestern University. He displayed his creative genius as professor, research scientist, project director for Pan-STARRS, husband and father.

(323552) Trudybell = 2004 TB
Discovered 2004 Oct. 2 by J. W. Young at Wrightwood.
Trudy E. Bell (b. 1950) is a prolific science writer and former editor for *Scientific American* and contract writer and editor for NASA. Among her many awards is the David N. Schramm Award of the American Astronomical Society.

(336203) Sandrobuss = 2008 SE$_{11}$
Discovered 2008 Sept. 22 by M. Ory at Vicques.
Sandro Buss (b. 1970) is a physicist from Geneva. During the 2016–2017 school year he trained as a teacher in Bienne to work at high school level. In the course of his training, he met the discoverer at the Lycée cantonal in Porrentruy (Jura).

(341826) Aurelbaier = 2008 AC$_{30}$
Discovered 2008 Jan. 10 by P. Kocher at Marly.
Aurel Baier (b. 1980) has studied informatics and is currently developing and maintaining various software systems. In his leisure time he promotes astronomy to the public. He is a member of the committee of the Observatory of Ependes and each year organizes a public event for Astronomy Day in Switzerland.

(361267) ʻIʻiwi = 2006 SV$_{395}$
Discovered 2006 Sept. 17 by J. Masiero at Mauna Kea.
The ʻiʻiwi is a species of Hawaiian honeycreeper endemic to the islands of Hawaiʻi. It has a curved bill and red and black plumage, and is one of the most common native Hawaiian birds. It is present on most of the islands of Hawaiʻi, but is listed as a threatened species due to habitat loss and disease.

(374710) ʻOʻo = 2006 RJ$_{110}$
Discovered 2006 Sept. 14 by J. Masiero at Mauna Kea.
The ʻOʻo was a genus of birds native to the islands of Hawaiʻi. These birds nested in tree cavities and had black plumage. The last recording of the song of the ʻOʻo was in 1987 on Kauaʻi, and it is likely extinct on all islands.

(377144) Okietex = 2003 QJ$_{96}$
Discovered 2003 Aug. 30 by J. Dellinger and D. Wells at Needville.
The Oklahoma City Astronomy Club, founded in 1958, has run the Okie-tex star party annually since 1984. It offers amateur astronomers a relaxed observing atmosphere under some of the darkest skies in the central United States.

(378002) ʻAkialoa = 2006 RK$_{112}$
Discovered 2006 Sept. 14 by J. Masiero at Mauna Kea.
The ʻakialoa are a group of birds that were native to the islands of Hawaiʻi. They had a long, curved bill that took up one-third of their body length, and had yellow plumage. The ʻakialoa are now extinct on Oʻahu and Maui, and likely on Kauaʻi.

(399673) Kadenyuk = 2004 SW$_{19}$
Discovered 2004 Sept. 19 at Andrushivka.
Leonid Kostyantynovych Kadenyuk (b. 1951) is a Ukrainian astronaut. He made his only spaceflight as Payload Specialist on NASA's STS-87 Columbia mission in 1997.

(475802) Zurek = 2006 XU$_{67}$
Discovered 2006 Dec. 13 by D. D. Balam at Mauna Kea.
David R. Zurek (b. 1966) is an authority on far-ultraviolet variables in dense stellar fields. He is currently the Data Collections Manager in the Department of Astrophysics in the American Museum of Natural History.

(481993) Melaniezander = 2009 RO$_{27}$
Discovered 2009 Sept. 13 by M. Busch and R. Kresken at ESA OGS.
Melanie Zander (b. 1970) is an award-winning German actress who has delighted audiences through three decades' of amateur stage performances. Working at the European Space Agency until 2016, she was deeply admired for her sense of humour, efficiency and devotion to her colleagues.

(484613) Cerebrito = 2008 SC$_{82}$
Discovered 2008 Sept. 26 by J. Lacruz at La Cañada.
Blanca Lacruz "Cerebrito" Pleguezuelos (b. 1998) began studying Biochemistry at the Universidad Autónoma de Madrid in 2016. She shares with her family and the discoverer the passion for astronomical observation from La Cañada.

(486170) Zolnowska = 2012 YX$_{2}$
Discovered∗ 2012 Dec. 10 by M. Zolnowski and M. Kusiak at Tincana.
Marta Zolnowska (b. 1974) is a child neurologist who has long treated patients with drug-resistant epilepsy. She has had significant input to clinical trials. Her main interest is focused on the efficacy of cannabinoids. In addition to great clinical work, she always shows a vivid passion for astronomy.

(486239) Zosiakaczmarek = 2013 BK$_{16}$
Discovered∗ 2012 Dec. 13 by M. Kusiak and M. Zolnowski at Tincana.
Zosia Kaczmarek (b. 1998) is a winner of 59th and 60th Polish Astronomy Olympiad in 2016 and 2017, and silver medalist in 10th International Olympiad on Astronomy and Astrophysics in India. Zosia is a diminutive of the name Zofia.

NUMBERING OF A NATURAL SATELLITE

The following natural satellite is receiving a permanent Roman numeral designation:

Jupiter LX = S/2003 J 3