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ERRATA

MPC	Line		2011 HY ₄₁	2002 05 05.31758	13 39 49.18	+14 12 20.9	MPS 382349	20.2	644
72992	29	<i>For</i> 1911 <i>read</i> 1910 [(239611) citation]	(6437)	2002 05 05.33853	13 39 48.17	+14 12 20.6	MPS 382349		644
75316	32	<i>For</i> 2002 <i>read</i> 2000 [(281902) discovery date] (also MPO199628, line -57)	(6437)	2002 09 13.22931	23 57 54.98	-00 48 50.8	MPS 62004	16.9 R	644
75316	36	<i>For</i> Spacewatch at Kitt Peak <i>read</i> the Mt. Lemmon Survey at Mount Lemmon [(281906) discoverer and discovery site] (also MPO199629, line -57)	(6437)	2002 09 13.31480	23 57 51.05	-00 49 19.1	MPS 62005	17.1 R	644
			(33788)	2002 09 13.38463	23 57 47.85	-00 49 42.2	MPS 62005	17.2 R	644
			(70270)	2009 06 22.63380	22 20 50.40	-18 16 23.5	MPS 384341	17.9 V	F85
			(70270)	2009 06 22.40510	14 26 04.97	-23 40 35.2	MPS 384420	20.2 V	F84
75316	- 2	<i>For</i> 2003 <i>read</i> 2002 [(281974) discovery date] (also MPO199645, line -12)	(107709)	2009 06 22.47330	14 26 04.03	-23 40 15.4	MPS 384420	20.0 V	F84
75317	46	<i>For</i> the Catalina Sky Survey <i>read</i> NEAT at Palomar. [(282021) discoverer and discovery site] (also MPO199657, line 24)	(128442)	2009 06 23.56590	22 53 54.90	+01 08 16.7	MPS 384477	19.4 V	F85
			(128442)	2009 06 22.40510	14 24 44.42	-23 32 23.7	MPS 384507	20.1 V	F84
75354	4	<i>For</i> LUSS <i>read</i> Y.-S. Tsai and T. Chen [(257248) discoverers]	(128442)	2009 06 22.47330	14 24 43.67	-23 32 03.8	MPS 384507	19.6 V	F84

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Obs.
2002 RJ ₁₆₃	*2002 09 12.22899		23 28 00.13	-04 04 48.3	MPS 61794	644
2002 RJ ₁₆₃	2002 09 12.30479		23 27 55.39	-04 04 45.2	MPS 61794	644
2002 RJ ₁₆₃	2002 09 12.37626		23 27 50.95	-04 04 42.5	MPS 61794	644
2002 RJ ₁₆₃	2002 09 14.33050		23 25 53.39	-04 03 23.0	MPS 61794	644
2002 RJ ₁₆₃	2002 09 14.35135		23 25 52.06	-04 03 21.9	MPS 61794	644
2002 RJ ₁₆₃	2002 09 14.37229		23 25 50.79	-04 03 21.3	MPS 61794	644
2009 CB ₄₅	2009 02 15.03450		10 47 30.99	+38 30 55.8	MPS 277725	147
2009 CB ₄₅	2009 02 15.07389		10 47 26.98	+38 30 57.1	MPS 277725	147
2009 CB ₄₅	2009 02 21.97309		10 35 51.68	+38 22 22.9	MPS 277725	147
2009 CB ₄₅	2009 02 21.97670		10 35 51.34	+38 22 22.5	MPS 277725	147
2009 CB ₄₅	2009 02 21.98032		10 35 50.92	+38 22 22.0	MPS 277725	147
2009 CB ₄₅	2009 02 22.04852		10 35 43.70	+38 22 08.2	MPS 277725	147
2010 CJ ₂₄₈	*2010 02 13.29865		08 31 34.21	+19 37 51.9	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 13.34665		08 31 31.37	+19 38 09.1	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 13.38332		08 31 29.22	+19 38 22.4	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 13.42042		08 31 27.05	+19 38 35.4	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 13.43286		08 31 26.34	+19 38 39.5	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 14.13621		08 30 47.47	+19 42 50.7	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 14.14650		08 30 46.91	+19 42 54.7	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 14.19529		08 30 44.05	+19 43 12.2	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 14.21981		08 30 42.68	+19 43 21.2	MPS 379742	I41
2010 CJ ₂₄₈	2010 02 14.24438		08 30 41.24	+19 43 29.4	MPS 379742	I41
2010 CB ₂₄₉	*2010 02 13.12557		08 38 05.55	+19 42 38.6	MPS 383042	I41
2010 CB ₂₄₉	2010 02 13.12890		08 38 05.40	+19 42 39.4	MPS 383042	I41

NEW OBSERVATORY CODES

The following listing is a continuation to that on MPC 75107. 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	$\rho \cos \phi'$	$\rho \sin \phi'$	
C67	12.2199	0.59747	+0.79922	Gnevsdorf
C68	23.89339	0.789058	+0.612302	Ellinogermaniki Agogi Observatory, Pallini
C69	13.3611	0.65835	+0.75036	Bayerwald Sternwarte, Neuuhütte
C70	4.49775	0.614779	+0.786055	Uiterstegracht Station, Leiden
C71	1.4892	0.74780	+0.66186	Sant Marti Sesgueioles
E89	176.2040	0.78759	-0.61421	Geyserland Observatory, Pukehanga
G50	253.3300	0.84629	+0.53134	Organ Mesa Observatory, Las Cruces
I76	355.93681	0.761573	+0.646107	Observatorio Tesla, Valdemorillo
I78	355.5721	0.80240	+0.59481	Observatorio Principia, Málaga
I79	357.6733	0.78743	+0.61474	AstroCamp, Nerpio

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	Obs.
2011 HY ₄₁	2002 05 05.29642		13 39 50.24	+14 12 21.4	MPS 382349		644

2010 CB ₂₄₉	2010 02 13.27831	08 37 57.46	+19 42 55.1	MPS 383042	I41	2010 CG ₂₄₉	2010 02 13.32424	08 38 07.86	+19 14 11.8	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.29016	08 37 56.82	+19 42 56.3	MPS 383042	I41	2010 CG ₂₄₉	2010 02 13.34665	08 38 06.69	+19 14 19.2	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.30205	08 37 56.21	+19 42 57.3	MPS 383042	I41	2010 CG ₂₄₉	2010 02 13.34838	08 38 06.59	+19 14 19.9	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.31058	08 37 55.75	+19 42 58.5	MPS 383042	I41	2010 CG ₂₄₉	2010 02 13.35012	08 38 06.44	+19 14 20.9	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.32253	08 37 55.10	+19 42 59.6	MPS 383042	I41	2010 CG ₂₄₉	2010 02 13.38508	08 38 04.71	+19 14 32.1	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.32595	08 37 54.93	+19 42 59.7	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.12589	08 37 28.77	+19 18 37.4	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.33453	08 37 54.46	+19 43 00.8	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.12760	08 37 28.69	+19 18 38.2	MPS 383043	I41
2010 CB ₂₄₉	2010 02 13.37106	08 37 52.53	+19 43 04.4	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.13962	08 37 28.08	+19 18 42.0	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.12760	08 37 14.50	+19 44 19.2	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.14822	08 37 27.65	+19 18 44.8	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.13791	08 37 13.99	+19 44 20.3	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.14994	08 37 27.56	+19 18 45.6	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.13962	08 37 13.90	+19 44 20.6	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.16059	08 37 27.03	+19 18 49.1	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.14822	08 37 13.46	+19 44 21.4	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.18478	08 37 25.81	+19 18 57.2	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.18652	08 37 11.46	+19 44 25.4	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.18652	08 37 25.71	+19 18 57.9	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.20057	08 37 10.75	+19 44 26.9	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.21102	08 37 24.47	+19 19 06.1	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.21277	08 37 10.13	+19 44 28.0	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.23734	08 37 23.14	+19 19 14.8	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.26026	08 37 07.63	+19 44 32.7	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.24438	08 37 22.69	+19 19 17.2	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.27269	08 37 06.97	+19 44 33.9	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.26910	08 37 21.52	+19 19 25.3	MPS 383043	I41
2010 CB ₂₄₉	2010 02 14.28516	08 37 06.33	+19 44 35.1	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.29405	08 37 20.26	+19 19 33.5	MPS 383043	I41
2010 CC ₂₄₉	*2010 02 13.12724	08 47 52.23	+19 23 56.0	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.33175	08 37 18.33	+19 19 45.8	MPS 383043	I41
2010 CC ₂₄₉	2010 02 13.29016	08 47 43.22	+19 24 42.1	MPS 383042	I41	2010 CG ₂₄₉	2010 02 14.38238	08 37 15.77	+19 20 02.2	MPS 383043	I41
2010 CC ₂₄₉	2010 02 13.30205	08 47 42.56	+19 24 45.7	MPS 383042	I41	2010 CN ₂₅₀	*2010 02 13.12557	08 36 55.75	+20 11 36.4	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.31400	08 47 41.89	+19 24 48.8	MPS 383042	I41	2010 CN ₂₅₀	2010 02 13.12724	08 36 55.64	+20 11 35.8	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.33797	08 47 40.55	+19 24 55.5	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.12890	08 36 55.55	+20 11 35.8	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.34838	08 47 39.97	+19 24 58.2	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.27663	08 36 46.73	+20 11 08.5	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.37457	08 47 38.51	+19 25 05.2	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.28849	08 36 46.04	+20 11 06.2	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.40978	08 47 36.57	+19 25 14.7	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.29016	08 36 45.93	+20 11 05.8	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.44713	08 47 34.52	+19 25 24.2	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.31228	08 36 44.61	+20 11 01.7	MPS 383044	I41
2010 CC ₂₄₉	2010 02 13.45961	08 47 33.85	+19 25 27.8	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.31400	08 36 44.51	+20 11 01.5	MPS 383044	I41
2010 CC ₂₄₉	2010 02 14.23734	08 46 53.61	+19 29 00.7	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.32424	08 36 43.90	+20 10 59.6	MPS 383044	I41
2010 CC ₂₄₉	2010 02 14.33718	08 46 48.14	+19 29 27.5	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.32595	08 36 43.79	+20 10 59.2	MPS 383044	I41
2010 CC ₂₄₉	2010 02 14.36242	08 46 46.78	+19 29 34.2	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.36232	08 36 41.62	+20 10 52.0	MPS 383044	I41
2010 CC ₂₄₉	2010 02 14.37511	08 46 46.09	+19 29 37.5	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.42042	08 36 38.17	+20 10 40.5	MPS 383044	I41
2010 CC ₂₄₉	2010 02 14.38783	08 46 45.38	+19 29 40.7	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.43286	08 36 37.44	+20 10 38.1	MPS 383044	I41
2010 CF ₂₄₉	*2010 02 13.12890	08 48 39.43	+20 46 47.8	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.44535	08 36 36.72	+20 10 35.4	MPS 383044	I41
2010 CF ₂₄₉	2010 02 13.38684	08 48 27.57	+20 48 16.2	MPS 383043	I41	2010 CN ₂₅₀	2010 02 13.45783	08 36 35.99	+20 10 33.0	MPS 383044	I41
2010 CF ₂₄₉	2010 02 13.39918	08 48 27.01	+20 48 20.4	MPS 383043	I41	2010 CN ₂₅₀	2010 02 14.26910	08 35 50.18	+20 07 58.2	MPS 383044	I41
2010 CF ₂₄₉	2010 02 13.41154	08 48 26.42	+20 48 24.8	MPS 383043	I41	2010 CN ₂₅₀	2010 02 14.28160	08 35 49.44	+20 07 55.8	MPS 383044	I41
2010 CF ₂₄₉	2010 02 13.42396	08 48 25.89	+20 48 28.6	MPS 383043	I41	2010 CN ₂₅₀	2010 02 14.29405	08 35 48.71	+20 07 53.4	MPS 383044	I41
2010 CF ₂₄₉	2010 02 14.18652	08 47 52.27	+20 52 47.4	MPS 383043	I41	2010 CN ₂₅₀	2010 02 14.34438	08 35 45.77	+20 07 43.7	MPS 383044	I41
2010 CF ₂₄₉	2010 02 14.37511	08 47 43.69	+20 53 50.7	MPS 383043	I41	2010 CN ₂₅₀	2010 02 14.38238	08 35 43.56	+20 07 35.9	MPS 383044	I41
2010 CF ₂₄₉	2010 02 14.38783	08 47 43.11	+20 53 55.2	MPS 383043	I41	2011 HE ₃₃	2011 05 05.27400	14 07 18.58	-10 14 06.0	MPS 383084	291
2010 CF ₂₄₉	2010 02 14.41967	08 47 41.66	+20 54 05.9	MPS 383043	I41	2011 HE ₃₃	2011 05 05.27831	14 07 18.33	-10 14 03.9	MPS 383084	291
2010 CF ₂₄₉	2010 02 14.43122	08 47 41.16	+20 54 09.5	MPS 383043	I41	2011 HE ₃₃	2011 05 05.28225	14 07 18.13	-10 14 02.1	MPS 383084	291
2010 CG ₂₄₉	*2010 02 13.27494	08 38 10.41	+19 13 55.5	MPS 383043	I41	2011 HE ₃₃	2011 05 05.28707	14 07 17.90	-10 14 00.3	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.27831	08 38 10.22	+19 13 56.6	MPS 383043	I41	2011 HE ₃₃	2011 05 05.29102	14 07 17.69	-10 13 58.6	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.28677	08 38 09.79	+19 13 59.8	MPS 383043	I41	2011 HE ₃₃	2011 05 05.29486	14 07 17.50	-10 13 56.8	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.28849	08 38 09.70	+19 13 59.9	MPS 383043	I41	2011 HE ₃₃	2011 05 05.29985	14 07 17.25	-10 13 54.7	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.29016	08 38 09.64	+19 14 00.5	MPS 383043	I41	2011 HE ₃₃	2011 05 05.30377	14 07 17.04	-10 13 53.0	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.29865	08 38 09.18	+19 14 03.1	MPS 383043	I41	2011 HE ₃₃	2011 05 05.30856	14 07 16.81	-10 13 51.0	MPS 383084	291
2010 CG ₂₄₉	2010 02 13.30035	08 38 09.10	+19 14 04.0	MPS 383043	I41	P/2006T1	2011 06 03.04900	23 25 34.63	+12 20 00.8	MPC 75130	C10
2010 CG ₂₄₉	2010 02 13.30205	08 38 09.02	+19 14 04.5	MPS 383043	I41	P/2006T1	2011 06 03.06042	23 25 35.11	+12 20 09.9	MPC 75130	C10
2010 CG ₂₄₉	2010 02 13.31058	08 38 08.55	+19 14 07.3	MPS 383043	I41	(25917)	2011 06 07.20174	09 01 32.98	+35 55 04.9	MPS 384923	703
2010 CG ₂₄₉	2010 02 13.31400	08 38 08.39	+19 14 08.4	MPS 383043	I41	(25917)	2011 06 07.20287	09 01 33.06	+35 55 04.3	MPS 384923	703

(25917) 2011 06 07.20404 09 01 33.16 +35 55 03.9 MPS 384923 703
 (25917) 2011 06 07.20522 09 01 33.27 +35 55 03.1 MPS 384923 703

IDENTIFICATION CHANGES

Continuation to MPC 75107.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	Obs.
1998 SH ₁₇₇	*1998 09 25.312971	00 45 27.663	+00 51 19.88	2006 TL ₉₄	21.35V	645	
1998 SH ₁₇₇	1998 09 25.316443	00 45 27.508	+00 51 16.67	2006 TL ₉₄	21.96	645	
2005 RG ₅₂	*2005 09 12.31453	23 32 53.71	-04 48 03.5	2011 EG ₆₈	21.1 V	691	
2005 RG ₅₂	2005 09 12.33191	23 32 52.75	-04 48 11.8	2011 EG ₆₈	21.2 V	691	
2005 RG ₅₂	2005 09 12.34937	23 32 51.84	-04 48 20.1	2011 EG ₆₈	21.2 V	691	
2007 HH ₉₈	*2007 04 20.20882	11 44 25.58	-01 39 09.5	2004 TG ₂₁₅	21.7 V	G96	
2007 HH ₉₈	2007 04 20.21441	11 44 25.40	-01 39 07.8	2004 TG ₂₁₅	22.0 V	G96	
2007 HH ₉₈	2007 04 20.22007	11 44 25.26	-01 39 05.5	2004 TG ₂₁₅	22.3 V	G96	
2007 HH ₉₈	2007 04 20.22558	11 44 25.11	-01 39 05.1	2004 TG ₂₁₅	21.2 V	G96	
2008 EH ₁₆₉	*2008 03 12.23241	09 36 52.09	+13 07 38.1	2000 WP ₁₃₈	20.4 V	G96	
2008 EH ₁₆₉	2008 03 12.24023	09 36 51.76	+13 07 40.9	2000 WP ₁₃₈	20.3 V	G96	
2008 EH ₁₆₉	2008 03 12.24804	09 36 51.51	+13 07 43.1	2000 WP ₁₃₈	21.1 V	G96	
2008 EH ₁₆₉	2008 03 12.25587	09 36 51.22	+13 07 45.8	2000 WP ₁₃₈	21.1 V	G96	
2008 ON ₂₅	*2008 07 30.29848	21 12 05.79	-15 23 29.3	2007 DF ₁₁₁	20.5 V	G96	
2008 ON ₂₅	2008 07 30.30294	21 12 05.58	-15 23 30.5	2007 DF ₁₁₁	21.1 V	G96	
2008 ON ₂₅	2008 07 30.30747	21 12 05.40	-15 23 31.3	2007 DF ₁₁₁	21.1 V	G96	
2008 ON ₂₅	2008 07 30.31201	21 12 05.14	-15 23 31.9	2007 DF ₁₁₁	20.7 V	G96	
2008 PN ₂₂	*2008 08 08.96279	21 11 13.67	-10 03 51.2	2009 WH ₆₄	19.6 V	J87	
2008 PN ₂₂	2008 08 08.98044	21 11 12.81	-10 03 56.0	2009 WH ₆₄	20.1 V	J87	
2008 PN ₂₂	2008 08 08.99913	21 11 11.74	-10 04 03.6	2009 WH ₆₄	19.9 V	J87	
2009 QQ ₆₄	*2009 08 29.32841	23 31 01.09	-10 55 57.8	2009 QV ₁	21.1 V	703	
2009 QQ ₆₄	2009 08 29.33606	23 31 00.58	-10 56 01.3	2009 QV ₁	19.8 V	703	
2009 QQ ₆₄	2009 08 29.34377	23 31 00.26	-10 56 03.8	2009 QV ₁	20.5 V	703	
2009 QQ ₆₄	2009 08 29.35146	23 30 59.90	-10 56 08.5	2009 QV ₁	20.9 V	703	
2009 SQ ₃₆₅	*2009 09 28.28853	02 11 10.35	+23 47 37.2	2006 BV ₁₈₂	19.6 V	703	
2009 SQ ₃₆₅	2009 09 28.29590	02 11 10.03	+23 47 37.7	2006 BV ₁₈₂	20.0 V	703	
2009 SQ ₃₆₅	2009 09 28.30309	02 11 09.81	+23 47 38.2	2006 BV ₁₈₂	20.9 V	703	
2009 SQ ₃₆₅	2009 09 28.31046	02 11 09.49	+23 47 36.5	2006 BV ₁₈₂	19.6 V	703	
2009 SR ₃₆₅	*2009 09 21.35387	01 00 35.38	+17 16 49.9	2009 RD ₅₈	19.8 V	703	
2009 SR ₃₆₅	2009 09 21.35931	01 00 35.06	+17 16 50.3	2009 RD ₅₈	20.0 V	703	
2009 SR ₃₆₅	2009 09 21.36488	01 00 34.81	+17 16 50.4	2009 RD ₅₈	20.0 V	703	
2009 SR ₃₆₅	2009 09 21.37041	01 00 34.48	+17 16 49.6	2009 RD ₅₈	20.0 V	703	
2009 UQ ₁₅₅	*2009 10 16.38216	02 29 45.31	+02 19 16.6	2009 SD ₂₉₆	21.3 V	703	
2009 UQ ₁₅₅	2009 10 16.38833	02 29 44.98	+02 19 15.2	2009 SD ₂₉₆	20.1 V	703	
2009 UQ ₁₅₅	2009 10 16.39454	02 29 44.73	+02 19 15.9	2009 SD ₂₉₆	20.8 V	703	
2009 UQ ₁₅₅	2009 10 16.40057	02 29 44.41	+02 19 12.4	2009 SD ₂₉₆	20.2 V	703	
2010 DT ₉₁	*2010 02 17.21788	11 06 37.60	+03 41 42.6	2010 CH ₁₇₈	20.9 V	691	
2010 DT ₉₁	2010 02 17.23549	11 06 36.91	+03 41 46.5	2010 CH ₁₇₈	21.0 V	691	
2010 DT ₉₁	2010 02 17.25312	11 06 36.20	+03 41 51.1	2010 CH ₁₇₈	21.1 V	691	
2010 DU ₉₁	*2010 02 17.21788	11 06 26.54	+03 41 05.0	2010 CG ₈₁	20.7 V	691	
2010 DU ₉₁	2010 02 17.23549	11 06 25.81	+03 41 09.1	2010 CG ₈₁	21.2 V	691	
2010 DU ₉₁	2010 02 17.25312	11 06 24.97	+03 41 13.7	2010 CG ₈₁	20.8 V	691	
2010 GK ₁₇₁	*2010 04 15.29103	13 04 31.87	-09 47 52.6	2010 GB ₁₃₀	20.9 V	G96	
2010 GK ₁₇₁	2010 04 15.29861	13 04 31.40	-09 47 49.3	2010 GB ₁₃₀	21.6 V	G96	
2010 GK ₁₇₁	2010 04 15.30632	13 04 30.97	-09 47 46.9	2010 GB ₁₃₀	21.6 V	G96	

2010 GK ₁₇₁	2010 04 15.31396	13 04 30.57	-09 47 44.6	2010 GB ₁₃₀	21.4 V	G96
2010 VH ₂₀₂	*2010 11 06.35668	05 05 23.83	+26 22 13.6	2005 UW ₂₉₅		691
2010 VH ₂₀₂	2010 11 06.37442	05 05 23.15	+26 22 16.4	2005 UW ₂₉₅		691
2010 VH ₂₀₂	2010 11 06.39666	05 05 22.30	+26 22 19.8	2005 UW ₂₉₅		691
2010 XP ₈₇	*2010 12 01.42135	04 44 00.99	+27 00 51.6	2005 UW ₂₉₅	20.5 V	G96
2010 XP ₈₇	2010 12 01.43021	04 44 00.49	+27 00 51.7	2005 UW ₂₉₅	20.5 V	G96
2010 XP ₈₇	2010 12 01.43903	04 43 59.95	+27 00 52.0	2005 UW ₂₉₅	20.6 V	G96
2010 XP ₈₇	2010 12 01.44792	04 43 59.41	+27 00 51.6	2005 UW ₂₉₅	21.3 V	G96
2011 AR ₇₈	*2011 01 04.23155	06 51 39.16	+32 00 17.1	2009 UQ ₁₂₀	22.1 V	G96
2011 AR ₇₈	2011 01 04.23733	06 51 38.77	+32 00 17.2	2009 UQ ₁₂₀	22.1 V	G96
2011 AR ₇₈	2011 01 04.24314	06 51 38.37	+32 00 17.4	2009 UQ ₁₂₀	21.9 V	G96
2011 AR ₇₈	2011 01 04.24897	06 51 38.01	+32 00 17.3	2009 UQ ₁₂₀	21.6 V	G96

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 104 San Marcello Pistoiese. Observers L. Tesi, P. Bacci, G. Fagioli, R. Bacci. Measurer P. Bacci. 0.60-m $f/4$ reflector + CCD.
- 118 Modra. Observer Š. Gajdoš. 0.6-m $f/5.5$ reflector + CCD.
- 130 Lumezzane. Observers M. Casali, A. Coffano, W. Marinello, M. Micheli, G. Pizzetti. Measurer W. Marinello. 0.40-m $f/4.2$ reflector + CCD.
- 152 Moletai Astronomical Observatory. Observers K. Černis, J. Zdanavicius, M. Maskoliunas. Measurer K. Černis. 0.35-m $f/3.5$ reflector + CCD.
- 157 Frasso Sabino. Observer R. Haver. 0.37-m $f/6.85$ Cassegrain + CCD.
- 203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.28-m $f/6.8$ Schmidt-Cassegrain + CCD.
- 204 Schiaparelli Observatory. Observer L. Buzzi. 0.38-m $f/6.8$ reflector + CCD, 0.60-m $f/4.64$ reflector + CCD.
- 213 Observatorio Montcabre. Observer R. Naves. Measurer M. Campas. 0.30-m $f/10$ Schmidt-Cassegrain.
- 215 Buchloe. Observer W. Hasubick. 0.44-m $f/4.6$ reflector + CCD.
- 232 Masquefa Observatory. Observer E. Reina. 0.25-m $f/10.6$ Schmidt-Cassegrain + CCD.
- 233 San Vito. Observer S. Donati. 0.30-m $f/10$ Schmidt-Cassegrain + CCD.
- 235 CAST Observatory, Talmassons. Observers D. Rio Daniele, R. Ligustri, P. Brunato. Measurers D. RIO Daniele, R. Ligustri. 0.35-m $f/6$ reflector + CCD.
- 249 SOHO. SOHO-LASCO coronagraphs C3 and C2. Comet detection by M. Uchina, measurements by K. Battams, reduction by G. V. Williams.
- 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, H. Sato. 0.70-m $f/7$ reflector, 0.70-m $f/7$ reflector + CCD.
- 379 Hamamatsu-Yuto. Observer S. Wakuda. 0.25-m $f/5.0$ Schmidt-Cassegrain + CCD.
- 423 North Ryde. Observer S. G. McAndrew. 0.20-m $f/4$ hyperbolic astrograph + CCD.
- 442 Gualba Observatory. Observer A. Sanchez C. 0.31-m $f/3.3$ Schmidt-Cassegrain + CCD.
- 461 University of Szeged, Piszkestető Stn. (Konkoly). Observer K. Sárneczky. 0.60-m Schmidt + CCD.

- 473 Remanzacco. Observers L. Donato, V. Gonano, M. Travagini. 0.45-m $f/4.4$ Newtonian reflector + CCD.
- 510 Siegen. Observers M. Klein, M. Jung, F. Feger, H. Bill. Measurer H. Bill. 0.43-m $f/4.5$ reflector + CCD.
- 583 Odessa-Mayaki. Observers S. Kashuba, V. Kashuba, Y. Gorbaney, S. Podlesnyak. Measurer I. Stogneevea. 0.60-m $f/8.0$ Ritchey-Chrétien + CCD.
- 585 Kiev comet station. Observers A. Baransky, A. Buriev, V. Ponomarenko. Measurer A. Baransky. 0.7-m $f/4$ reflector + CCD.
- 691 Steward Observatory, Kitt Peak. Observer J. V. Scotti. 0.9-m $f/3$ reflector + CCD.
- 703 Catalina Sky Survey. Observers E. Beshore, R. A. Kowalski. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, P. Tricarico, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 0.68-m Schmidt + CCD.
- 704 Lincoln Laboratory ETS, New Mexico. Observers M. Blythe, G. Spitz, R. Brungard, J. Paige, P. Festler, T. McVey, A. Valdivia. 1.0-m $f/2.15$ reflector + CCD.
- 705 Apache Point. Observers H. Brewington, J. Dembicky, M. Harvanek, B. Ketzeback, D. Long, K. Pan, O. Malanushenko, V. Malanushenko, R. McMillan, S. Snedden, S. Watters. Measurer K. Sárneczky. 2.5-m $f/5$ Ritchey-Chrétien + CCD.
- 807 Cerro Tololo. Observers R. Holmes, T. Linder, V. Hoette. Measurers T. Linder, R. Holmes. 0.41-m $f/11$ Ritchey-Chrétien + CCD.
- 844 Los Molinos. Observers R. Salvo, S. Roland, S. Bruzzone, G. Tancredi, M. Martinez. Measurer R. Salvo. 0.35-m reflector + CCD.
- 850 Cordell-Lorenz Observatory, Sewanee. Observers D. T. Durig, J. R. Uriostegui, J. T. Tran, J. F. Danusantoso, S. Kharel, D. E. Duenas, A. C. Rice. Measurers D. T. Durig, E. M. Nichols, T. D. Strickland, J. A. Torres Perez, C. L. Murp, G. V. Essix, K. A. Williams, T. A. Morris, A. C. Rice, J. A. Va, D. E. Duenas, S. Kharel, A. C. Grishaw, S. E. Emerson, A. R. Guhlin, J. R. Edman, E. C. Johnson, J. F. Danusantoso, J. A. Vasquez, C. L. Murphree, E. S. Koury, J. R. Uriostegui. 0.30-m Schmidt-Cassegrain + 765×510 CCD.
- 926 Tenagra II Observatory. Observers M. Schwartz, P. R. Holvorcem. 0.41-m $f/3.75$ astrograph + CCD, 0.81-m $f/7$ Ritchey-Chrétien + CCD.
- 939 Observatorio Rodeno. Observer J. Castellano. 0.20-m $f/10$ Schmidt-Cassegrain + CCD.
- 941 Observatorio Pla D'Arguines. Observers R. Ferrando, M. Ferrando. Measurer R. Ferrando. 0.40-m $f/10$ Ritchey-Chrétien + CCD.
- 945 Observatorio Monte Deva. Observer J. R. Vidal. 0.36-m $f/4.48$ Schmidt-Cassegrain + CCD.
- 958 Observatoire de Dax. Observer P. Dupouy. 0.20-m $f/3.3$ Schmidt-Cassegrain + CCD, 0.32-m $f/6$ reflector + CCD.
- A01 Masia Cal Maciarol Modul 1. Observer F. Baldris. 0.20-m $f/5.0$ Newtonian reflector + CCD.
- A02 Masia Cal Maciarol Modul 8. Observers J. L. Salto, A. Salto. Measurer J. L. Salto. 0.25-m $f/7.2$ Schmidt-Cassegrain + CCD.
- A13 Observatoire Naef, Marly. Observer P. Kocher. 0.5-m $f/3.3$ Hypergraph + CCD.
- A71 Stixendorf. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann. Measurer W. Vollmann. 0.25-m $f/3.8$ reflector + CCD.
- A77 Observatoire Chante-Perdrix, Dauban. Observers C. Rinner, F. Kugel. 0.5-m $f/3$ reflector + CCD.
- B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m $f/4$ Newtonian reflector + CCD.
- B51 Vallauris. Observer J. Nicolas. 0.41-m $f/3.3$ reflector + CCD.
- B54 Ager. Observer J. Bel. 0.30-m $f/6.5$ Schmidt-Cassegrain + CCD.
- B66 Osservatorio di Casasco. Observer W. Borghini. 0.4-m $f/7.3$ Ritchey-Chrétien + CCD.
- B83 Gières. Observer T. Noel. 0.20-m $f/5.0$ reflector + CCD.
- B96 Brixii Observatory, Kruikebeke. Observer E. Bryssinck. 0.4-m $f/3.8$ astrograph + CCD.
- C09 Rouet. Observer G. Sachot. 0.13-m $f/7.0$ refractor + CCD.
- C10 Maisonnelles. Observer J. F. Soulier. 0.26-m $f/3.6$ Newtonian reflector + CCD.
- C23 Olmen. Observer A. Diepvens. 0.20-m $f/9$ refractor + CCD.
- C47 Nonndorf. Observer G. Dangl. 0.25-m $f/4.8$ reflector + CCD.
- C49 STEREO-A. SECCHI COR-2A coronagraph. Measurements by K. Battams, reduction by G. V. Williams.
- C50 STEREO-B. SECCHI COR-2B coronagraph. Measurements by K. Battams, reduction by G. V. Williams.
- C51 WISE. Measurers A. K. Mainzer, E. L. Wright, J. M. Bauer, T. Grav, J. W. Dailey, J. R. Masiero, R. M. Cutri, R. S. McMillan, R. G. Walker, G. Pearman.
- D81 Nagano. Observer Y. Ohshima. 0.30-m $f/4.5$ reflector + CCD.
- D88 Hiratsuka. Observer Y. Sugiyama. 0.25-m $f/5.0$ reflector + CCD.
- D90 RAS Observatory, Moorook. Observer K. Hills. 0.41-m $f/9$ Ritchey-Chrétien + CCD.
- D95 Kurihara. Observer T. Takahashi. 0.18-m $f/6.0$ reflector + CCD, 0.30-m $f/4.5$ reflector + CCD.
- D96 Tzec Maun Observatory, Moorook. Observers S. Baroni, L. Buzzi, P. Concarì, S. Foglia, G. Galli, M. Tombelli, E. Bryssinck, P. Camilleri, S. Plaksa, A. Novichonok. Measurers S. Baroni, L. Buzzi, P. Concarì, S. Foglia, G. Galli, M. Tombelli, E. Bryssinck, P. Camilleri, S. Plaksa, D. Chestnov. 0.15-m $f/7.3$ refractor + CCD, 0.15-m $f/7.4$ refractor + CCD, 0.18-m $f/2.8$ Newtonian reflector + CCD.
- E03 RAS Observatory, Officer. Observer H. Sato. 0.32-m $f/6.5$ Ritchey-Chrétien + CCD.
- E07 Murrumbateman. Observer D. Herald. 0.36-m $f/3.9$ Schmidt-Cassegrain + CCD.
- E10 Siding Spring-Faulkes Telescope South. Observers T. Lister, E. Guido, N. Howes, G. Sostero. Measurers T. Lister, E. Guido, N. Howes, G. Sostero. 2.0-m $f/10.0$ Ritchey-Chrétien + CCD.
- E12 Siding Spring Survey. Observer R. H. McNaught. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 0.5-m Uppsala Schmidt + CCD.
- E85 Farm Cove. Observer J. McCormick. 0.35-m $f/10$ Schmidt-Cassegrain + CCD.
- F51 Pan-STARRS 1, Haleakala. Observers N. Primak, A. Schultz, S. Watters, J. Thiel, T. Goggia. Measurer PS1 Science Consortium. 1.8-m Ritchey-Chrétien + CCD.

- F65 Haleakala-Faulkes Telescope North. Observers T. Lister, E. Guido, N. Howes, G. Sostero. 2.0-m $f/10$ Ritchey-Chrétien + CCD, 2.0-m $f/10.0$ Ritchey-Chrétien + CCD.
- G51 Byrne Observatory, Sedgwick Reserve. Observer B. J. Fulton. Measurer T. Lister. 0.8-m $f/8$ Ritchey-Chrétien + CCD.
- G68 Sierra Stars Observatory, Markleeville. Observers R. Dymock, J. Cerny. Measurers R. Dymock, M. Masek. 0.61-m $f/10$ Cassegrain + CCD.
- G92 Jarnac Observatory, Vail. Observer T. Glinos. 0.64-m $f/7.2$ Ritchey-Chrétien + CCD.
- G96 Mt. Lemmon Survey. Observers A. R. Gibbs, R. A. Kowalski. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 1.5-m reflector + CCD.
- H01 Magdalena Ridge Observatory, Socorro. Observers W. H. Ryan, E. V. Ryan. Measurer W. H. Ryan. 2.4-m $f/8.9$ reflector + CCD.
- H06 RAS Observatory, Mayhill. Observers E. Guido, G. Sostero, H. Sato, R. Ligustri. 0.10-m $f/5$ reflector + CCD, 0.25-m reflector + CCD, 0.51-m $f/4.5$ reflector + CCD.
- H10 Tzec Maun Observatory, Mayhill. Observers P. Camilleri, D. Chestnov, A. Novichonok, J. Linder, G. Sostero, E. Guido, S. Plaksa, E. Bryssinck, S. Baroni, L. Buzzzi, P. Concari, S. Foglia, G. Galli, M. Tombelli. 0.21-m $f/7.9$ refractor + CCD, 0.35-m $f/3.8$ Maksutov-Newtonian + CCD, 0.41-m $f/9$ Ritchey-Chrétien + CCD.
- H15 ISON-NM Observatory, Mayhill. Observer L. Elenin. 0.45-m $f/2.8$ astrograph + CCD.
- H17 Angel Peaks Observatory. Observer J. Hall. 0.35-m $f/6.7$ Schmidt-Cassegrain + CCD.
- H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers R. Holmes, S. Foglia, T. Vorobjov, T. Linder. 0.61-m $f/4.5$ astrograph + CCD, 0.81-m $f/4.5$ astrograph + CCD.
- H26 Doc Greiner Research Observatory, Janesville. Observer M. Mills. 0.4-m $f/10$ Schmidt-Cassegrain + CCD, 0.40-m $f/10$ Schmidt-Cassegrain + CCD.
- H36 Sandlot Observatory, Scranton. Observer G. Hug. 0.56-m reflector + CCD.
- H45 Arkansas Sky Obs., Petit Jean Mountain South. Observer P. C. Sherrod. 0.51-m $f/4.3$ astrograph + CCD.
- H47 Vicksburg. Observer C. Bell. 0.3-m Schmidt-Cassegrain + CCD.
- I08 Alianza S4, Cerro Burek. Observers J. L. Ortiz, N. Morales, I. de la Cueva, P. Santos-Sanz, R. Gil-Hutton. Measurer I. de la Cueva. 0.45-m $f/2.8$ reflector + CCD.
- I16 IAA-AI Atacama, San Pedro de Atacama. Observers J. L. Ortiz, P. Santos-Sanz, N. Morales, I. de la Cueva. Measurer I. de la Cueva. 0.40-m $f/3.7$ reflector + CCD.
- I19 Observatorio El Gato Gris, Tanti. Observer C. Colazo. 0.36-m $f/11$ Schmidt-Cassegrain + CCD.
- I40 La Silla-TRAPPIST. Observers E. Jehin, J. Manfroid, M. Gillon, D. Hutsemekers, P. Magain. Measurers J. Manfroid, E. Jehin. 0.60-m $f/8.0$ reflector + CCD.
- I99 Observatorio Blanquita, Vaciamadrid. Observer F. Limon. 0.20-m $f/3.3$ Schmidt-Cassegrain + CCD, 0.20-m $f/5.5$ Schmidt-Cassegrain + CCD.
- J01 Observatorio Cielo Profundo, Oviedo. Observer J. Gonzalez. 0.23-m $f/6$ Schmidt-Cassegrain + CCD.

J04 ESA Optical Ground Station, Tenerife. Observers H. Bill, M. Busch, A. Drefke, P. Geffert, D. Koschny, R. Kracht, R. Kresken. 1.0-m $f/4.4$ reflector + CCD.

J05 Bootes Observatory, Boecillo. Observer D. Cardeñosa. Measurers D. Cardeñosa, R. Lozano. 0.20-m $f/10$ Schmidt-Cassegrain + CCD.

J19 El Maestrat. Observers F. Peña Ciriza, A. del Maes. Measurer F. Peña Ciriza. 0.15-m reflector + CCD.

J24 Observatorio Altamira. Observer J. F. Hernandez. 0.4-m $f/10$ Schmidt-Cassegrain + CCD.

J31 La Axarquía. Observer J. Baez. 0.20-m $f/5.0$ reflector + CCD.

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

J40 Málaga. Observer J. M. Ruiz. Measurers J. M. Ruiz, G. Muler. 0.25-m $f/4$ Schmidt-Newtonian + CCD.

J47 Observatorio Nazaret. Observer G. Muler. Measurers J. M. Ruiz, G. Muler. 0.30-m Schmidt-Cassegrain + CCD.

J93 Mount Tuffley Observatory, Gloucester. Observer J. Fletcher. 0.25-m $f/5.5$ Schmidt-Cassegrain + CCD.

J95 Great Shefford. Observer P. Birtwhistle. 0.40-m $f/6.0$ Schmidt-Cassegrain + CCD.

J97 Alginet. Observer T. Climent. 0.25-m Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N	Obs.
C/2002 J4 (NEAT)							
C/2002 J4	2006 09 30.45621	03 57 10.11	-00 10 23.4				7 705
C/2002 J4	2006 09 30.45911	03 57 10.06	-00 10 23.6	21.5 N			7 705
C/2002 J4	2006 10 01.41863	03 56 57.97	-00 11 22.2	21.7 N			7 705
C/2002 J4	2006 10 01.42195	03 56 57.93	-00 11 22.4	21.3 N			7 705
C/2005 B1 (Christensen)							
C/2005 B1	2007 09 05.38074	01 33 53.28	-00 52 49.2	20.2 N			7 705
C/2005 B1	2007 09 05.38282	01 33 53.21	-00 52 50.7	19.8 N			7 705
C/2005 L3 (McNaught)							
C/2005 L3	2011 06 30.15966	10 32 17.96	+38 46 59.9				32H06
C/2005 L3	2011 06 30.16345	10 32 18.00	+38 47 00.4	16.2 T			32H06
C/2006 S3 (LONEOS)							
C/2006 S3	2011 04 30.31942	20 24 20.29	-04 53 14.8	17.1 N			I40
C/2006 S3	2011 04 30.32169	20 24 20.23	-04 53 14.7	16.4 N			I40
C/2006 S3	2011 04 30.32388	20 24 20.18	-04 53 14.5	16.1 N			I40
C/2006 S3	2011 04 30.32606	20 24 20.12	-04 53 14.4	15.6 N			I40
C/2006 S3	2011 04 30.32827	20 24 20.08	-04 53 14.2	17.2 N			I40
C/2006 S3	2011 04 30.33046	20 24 20.01	-04 53 14.1	16.4 N			I40
C/2006 S3	2011 04 30.33265	20 24 19.95	-04 53 13.9	16.1 N			I40
C/2006 S3	2011 05 05.32199	20 22 07.66	-04 48 23.4	17.2 N			I40
C/2006 S3	2011 05 05.32426	20 22 07.59	-04 48 23.3	16.4 N			I40
C/2006 S3	2011 05 05.32644	20 22 07.52	-04 48 23.1	16.1 N			I40
C/2006 S3	2011 05 05.32863	20 22 07.47	-04 48 23.3	15.6 N			I40
C/2006 S3	2011 05 05.33084	20 22 07.40	-04 48 22.9	17.2 N			I40
C/2006 S3	2011 05 05.33302	20 22 07.34	-04 48 22.8	16.4 N			I40
C/2006 S3	2011 05 05.33521	20 22 07.27	-04 48 22.6	16.1 N			I40
C/2006 S3	2011 05 05.33740	20 22 07.20	-04 48 22.6	15.6 N			I40
C/2006 S3	2011 05 05.33961	20 22 07.14	-04 48 22.7	17.2 N			I40

C/2006 S3	2011 05 05.34180	20 22 07.08	-04 48 22.3	16.4 N	I40	C/2006 S3	2011 06 13.31346	19 51 20.36	-04 53 51.8	15.5 N	KH47
C/2006 S3	2011 05 05.34399	20 22 07.03	-04 48 22.2	16.1 N	I40	C/2006 S3	2011 06 14.33955	19 50 12.52	-04 55 17.1	16.3 N	KH47
C/2006 S3	2011 05 11.30908	20 18 58.90	-04 43 55.1	17.2 N	I40	C/2006 S3	2011 06 14.36207	19 50 11.02	-04 55 19.1	16.4 N	KH47
C/2006 S3	2011 05 11.31134	20 18 58.83	-04 43 55.0	16.4 N	I40	C/2006 S3	2011 06 14.36945	19 50 10.55	-04 55 19.4	15.5 N	KH47
C/2006 S3	2011 05 11.31353	20 18 58.76	-04 43 54.8	16.0 N	I40	C/2006 S3	2011 06 14.99632	19 49 29.01	-04 56 14.9	16.0 N	K 958
C/2006 S3	2011 05 11.31572	20 18 58.68	-04 43 54.8	15.6 N	I40	C/2006 S3	2011 06 15.04868	19 49 25.18	-04 56 15.7	15.6 N	K 958
C/2006 S3	2011 05 11.31796	20 18 58.59	-04 43 54.9	17.2 N	I40	C/2006 S3	2011 06 17.01246	19 47 12.19	-04 59 15.5	15.6 N	K 958
C/2006 S3	2011 05 11.32015	20 18 58.51	-04 43 54.9	16.4 N	I40	C/2006 S3	2011 06 17.02361	19 47 11.50	-04 59 20.1	15.2 N	K 958
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C/2006 S3	2011 05 11.32453	20 18 58.36	-04 43 54.6	15.6 N	I40	C/2006 S3	2011 06 18.13047	19 45 54.76	-05 01 08.0	15.4 N	J24
C/2006 S3	2011 05 11.32674	20 18 58.29	-04 43 54.6	17.2 N	I40	C/2006 S3	2011 06 18.13633	19 45 54.37	-05 01 08.3	15.4 N	J24
C/2006 S3	2011 05 15.27555	20 16 35.25	-04 41 51.2	17.1 N	I40	C/2006 S3	2011 06 18.14073	19 45 54.06	-05 01 08.6	15.5 N	J24
C/2006 S3	2011 05 15.27716	20 16 35.24	-04 41 51.3	16.4 N	I40	C/2006 S3	2011 06 19.02308	19 44 52.57	-05 02 39.7	16.7 N	J01
C/2006 S3	2011 05 15.28015	20 16 35.12	-04 41 51.2	15.6 N	I40	C/2006 S3	2011 06 19.03250	19 44 51.86	-05 02 40.0	16.6 N	J01
C/2006 S3	2011 05 15.28164	20 16 35.05	-04 41 50.7	15.6 N	I40	C/2006 S3	2011 06 19.04442	19 44 51.00	-05 02 42.0	16.7 N	J01
C/2006 S3	2011 05 15.28328	20 16 34.97	-04 41 51.0	16.0 N	I40	C/2006 S3	2011 06 19.09571	19 44 47.40	-05 02 47.6	15.6 N	K 958
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C/2006 S3	2011 05 15.28625	20 16 34.85	-04 41 50.9	16.0 N	I40	C/2006 S3	2011 06 19.11863	19 44 45.74	-05 02 48.1	15.7 N	K 958
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C/2006 S3	2011 05 15.28923	20 16 34.73	-04 41 50.8	16.0 N	I40	C/2006 S3	2011 06 19.74862	19 44 01.37	-05 03 53.9		30D90
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C/2006 S3	2011 05 28.37762	20 06 52.33	-04 40 53.2	16.3 N	K 850	C/2006 S3	2011 06 19.98370	19 43 44.81	-05 04 21.0	15.7 N	B83
C/2006 S3	2011 05 28.39292	20 06 51.45	-04 40 54.4	16.3 N	K 850	C/2006 S3	2011 06 19.99942	19 43 43.73	-05 04 23.0	15.5 N	B83
C/2006 S3	2011 06 12.07453	19 52 41.04	-04 52 15.3	16.3 N	K 958	C/2006 S3	2011 06 20.00893	19 43 43.11	-05 04 22.9	15.7 N	K 958
C/2006 S3	2011 06 12.08606	19 52 40.21	-04 52 16.4	16.2 N	K 958	C/2006 S3	2011 06 20.02035	19 43 42.24	-05 04 25.5	15.4 N	K 958
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C/2006 S3	2011 06 12.31643	19 52 25.28	-04 52 32.2	16.9 N	I40	C/2006 S3	2011 06 20.03150	19 43 41.38	-05 04 24.9	15.6 N	945
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C/2006 S3	2011 06 12.32097	19 52 25.00	-04 52 32.4	16.1 N	I40	C/2006 S3	2011 06 20.04420	19 43 40.50	-05 04 28.2	15.6 N	945
C/2006 S3	2011 06 12.32250	19 52 24.90	-04 52 32.8	15.3 N	I40	C/2006 S3	2011 06 20.04934	19 43 40.12	-05 04 28.6	15.5 T	945
C/2006 S3	2011 06 12.32399	19 52 24.79	-04 52 32.7	15.3 N	I40	C/2006 S3	2011 06 20.37938	19 43 16.68	-05 05 04.0	16.2 N	KH47
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C/2006 S3	2011 06 12.32701	19 52 24.60	-04 52 33.1	15.8 N	I40	C/2006 S3	2011 06 20.41160	19 43 14.39	-05 05 07.3	16.2 N	KH47
C/2006 S3	2011 06 12.32850	19 52 24.50	-04 52 33.0	15.8 N	I40	C/2006 S3	2011 06 20.94987	19 42 36.09	-05 06 07.2	15.7 N	B51
C/2006 S3	2011 06 12.96959	19 51 42.85	-04 53 24.7	16.4 N	A71	C/2006 S3	2011 06 20.96128	19 42 35.26	-05 06 08.4	15.7 N	B51
C/2006 S3	2011 06 12.97161	19 51 42.72	-04 53 24.9	16.6 N	A71	C/2006 S3	2011 06 20.97151	19 42 34.52	-05 06 09.7	15.7 N	B51
C/2006 S3	2011 06 12.97363	19 51 42.59	-04 53 25.2	16.5 N	A71	C/2006 S3	2011 06 20.98293	19 42 33.72	-05 06 10.9	16.7 N	J01
C/2006 S3	2011 06 12.99385	19 51 41.24	-04 53 27.0	16.6 N	A71	C/2006 S3	2011 06 20.99723	19 42 32.66	-05 06 12.4	16.5 N	J01
C/2006 S3	2011 06 12.99588	19 51 41.12	-04 53 27.0	16.7 N	A71	C/2006 S3	2011 06 21.00917	19 42 31.81	-05 06 13.9	16.8 N	J01
C/2006 S3	2011 06 12.99789	19 51 41.00	-04 53 27.5	16.6 N	A71	C/2006 S3	2011 06 21.03086	19 42 30.29	-05 06 16.6	15.7 N	K 958
C/2006 S3	2011 06 12.99991	19 51 40.86	-04 53 27.5	16.5 N	A71	C/2006 S3	2011 06 21.04111	19 42 29.64	-05 06 18.9	15.9 N	K 958
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C/2006 S3	2011 06 13.04959	19 51 37.58	-04 53 31.0	15.4 N	A77	C/2006 S3	2011 06 22.02450	19 41 18.84	-05 08 10.0	13.6 N	K 958
C/2006 S3	2011 06 13.05114	19 51 37.47	-04 53 31.2	15.3 N	A77	C/2006 S3	2011 06 22.03370	19 41 18.18	-05 08 12.0	13.5 N	K 958
C/2006 S3	2011 06 13.05268	19 51 37.37	-04 53 31.2	15.3 N	A77	C/2006 S3	2011 06 22.38942	19 40 52.45	-05 08 52.2	15.8 N	G68
C/2006 S3	2011 06 13.06229	19 51 36.77	-04 53 31.6	16.1 N	K 958	C/2006 S3	2011 06 22.39637	19 40 51.91	-05 08 53.4	15.8 N	G68
C/2006 S3	2011 06 13.07255	19 51 36.25	-04 53 31.9	16.6 N	K 958	C/2006 S3	2011 06 22.40331	19 40 51.39	-05 08 54.2	15.8 N	G68
C/2006 S3	2011 06 13.09557	19 51 34.62	-04 53 34.6	16.3 N	K 958	C/2006 S3	2011 06 22.41025	19 40 50.85	-05 08 55.1	15.8 N	G68
C/2006 S3	2011 06 13.29483	19 51 21.55	-04 53 50.5	16.3 N	KH47	C/2006 S3	2011 06 22.41720	19 40 50.35	-05 08 56.0	15.7 N	G68
C/2006 S3	2011 06 13.30275	19 51 21.02	-04 53 51.4	15.8 N	KH47	C/2006 S3	2011 06 22.88095	19 40 16.74	-05 09 51.4	15.1 N	585

C/2006 S3	2011 06 22.88517	19 40 16.39	-05 09 51.7	15.3 N	585	C/2006 S3	2011 06 26.04116	19 36 23.45	-05 16 28.8	15.7 N	K 958
C/2006 S3	2011 06 22.88869	19 40 16.15	-05 09 51.9	14.6 N	585	C/2006 S3	2011 06 26.09012	19 36 19.80	-05 16 34.6	15.6 N	B54
C/2006 S3	2011 06 22.90663	19 40 14.87	-05 09 54.3	14.6 N	585	C/2006 S3	2011 06 26.09880	19 36 19.14	-05 16 35.9	15.7 N	B54
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C/2006 S3	2011 06 22.92381	19 40 13.56	-05 09 55.8	14.6 N	585	C/2006 S3	2011 06 26.99093	19 35 12.19	-05 18 34.8	14.2 N	K 958
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C/2006 S3	2011 06 22.92803	19 40 13.31	-05 09 56.9	15.3 N	585	C/2006 S3	2011 06 27.01268	19 35 10.53	-05 18 39.6		C23
C/2006 S3	2011 06 22.96494	19 40 10.64	-05 10 00.6	15.6 N	I99	C/2006 S3	2011 06 27.01321	19 35 10.45	-05 18 40.0	16.9 N	B96
C/2006 S3	2011 06 22.97581	19 40 09.86	-05 10 01.4	15.6 N	I99	C/2006 S3	2011 06 27.01458	19 35 10.43	-05 18 39.1	14.8 N	K 958
C/2006 S3	2011 06 22.98045	19 40 09.45	-05 10 02.7	15.5 N	I99	C/2006 S3	2011 06 27.01628	19 35 10.26	-05 18 39.5		C23
C/2006 S3	2011 06 23.93598	19 38 59.57	-05 11 59.0	15.2 N	585	C/2006 S3	2011 06 27.01751	19 35 10.17	-05 18 40.3	16.9 N	B96
C/2006 S3	2011 06 23.93742	19 38 59.43	-05 11 59.0	15.0 N	585	C/2006 S3	2011 06 27.01927	19 35 10.08	-05 18 39.3	15.6 N	939
C/2006 S3	2011 06 23.93883	19 38 59.32	-05 11 59.9	15.5 N	585	C/2006 S3	2011 06 27.01988	19 35 10.02	-05 18 40.8		C23
C/2006 S3	2011 06 23.94309	19 38 58.98	-05 12 00.4	15.3 N	585	C/2006 S3	2011 06 27.02203	19 35 09.78	-05 18 40.9	16.9 N	B96
C/2006 S3	2011 06 23.94461	19 38 58.89	-05 12 00.7	15.2 N	585	C/2006 S3	2011 06 27.02347	19 35 09.70	-05 18 40.9		C23
C/2006 S3	2011 06 23.94744	19 38 58.69	-05 12 00.7	15.4 N	585	C/2006 S3	2011 06 27.02655	19 35 09.46	-05 18 41.3	16.9 N	B96
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C/2006 S3	2011 06 23.95595	19 38 58.05	-05 12 01.8	15.2 N	585	C/2006 S3	2011 06 27.03106	19 35 09.16	-05 18 42.1	17.0 N	B96
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C/2006 S3	2011 06 24.07718	19 38 49.10	-05 12 16.7	15.7 N	K 958	C/2006 S3	2011 06 27.32002	19 34 47.35	-05 19 21.0	16.2 N	KH47
C/2006 S3	2011 06 24.08836	19 38 48.27	-05 12 17.6	15.7 N	K 958	C/2006 S3	2011 06 27.32695	19 34 46.82	-05 19 22.0	16.1 N	KH47
C/2006 S3	2011 06 24.09960	19 38 47.55	-05 12 17.9	15.5 N	K 958	C/2006 S3	2011 06 27.33481	19 34 46.23	-05 19 23.1	16.0 N	KH47
C/2006 S3	2011 06 24.32497	19 38 30.87	-05 12 47.6	16.3 N	KH47	C/2006 S3	2011 06 27.97975	19 33 57.45	-05 20 53.1	16.2 T	K 215
C/2006 S3	2011 06 24.33604	19 38 29.97	-05 12 47.9	16.5 N	KH47	C/2006 S3	2011 06 27.98081	19 33 57.38	-05 20 53.2	15.9 T	K 215
C/2006 S3	2011 06 25.01941	19 37 39.54	-05 14 15.8	15.8 N	K 958	C/2006 S3	2011 06 27.98186	19 33 57.32	-05 20 53.2	15.8 T	K 215
C/2006 S3	2011 06 25.03016	19 37 38.76	-05 14 16.9	15.8 N	K 958	C/2006 S3	2011 06 28.90141	19 32 47.37	-05 23 03.3	16.2 N	235
C/2006 S3	2011 06 25.04093	19 37 37.94	-05 14 18.3	15.7 N	K 958	C/2006 S3	2011 06 28.90357	19 32 47.20	-05 23 03.6	16.3 N	K 235
C/2006 S3	2011 06 25.04190	19 37 37.88	-05 14 18.6	15.7 N	I99	C/2006 S3	2011 06 28.90573	19 32 47.01	-05 23 04.8	16.2 N	235
C/2006 S3	2011 06 25.04495	19 37 37.66	-05 14 19.7	15.6 N	I99	C/2006 S3	2011 06 29.54014	19 31 58.50	-05 24 33.1	15.8 N	D96
C/2006 S3	2011 06 25.04800	19 37 37.43	-05 14 19.9	15.7 N	I99	C/2006 S3	2011 06 29.54223	19 31 58.32	-05 24 33.9	15.7 N	D96
C/2006 S3	2011 06 25.18347	19 37 27.40	-05 14 36.5	15.8 N	H17	C/2006 S3	2011 06 30.07069	19 31 17.85	-05 25 53.7	15.7 N	K 958
C/2006 S3	2011 06 25.19632	19 37 26.47	-05 14 38.5	16.1 N	H17	C/2006 S3	2011 06 30.07995	19 31 17.00	-05 25 52.9	15.8 N	K 958
C/2006 S3	2011 06 25.31217	19 37 17.80	-05 14 53.3	16.0 N	KH47	C/2006 S3	2011 06 30.09040	19 31 16.42	-05 25 54.0	15.7 N	K 958
C/2006 S3	2011 06 25.32051	19 37 17.17	-05 14 54.4	15.8 N	KH47	C/2006 S3	2011 06 30.37145	19 30 54.57	-05 26 38.3	16.1 N	KH47
C/2006 S3	2011 06 25.32860	19 37 16.55	-05 14 55.5	16.3 N	KH47	C/2006 S3	2011 06 30.37993	19 30 53.89	-05 26 39.7	16.2 N	KH47
C/2006 S3	2011 06 25.94479	19 36 30.66	-05 16 16.0	16.6 N	B66	C/2006 S3	2011 06 30.38703	19 30 53.35	-05 26 40.6	16.2 N	KH47
C/2006 S3	2011 06 25.95632	19 36 29.83	-05 16 17.3	15.2 N	C10	C/2006 S3	2011 06 30.92298	19 30 12.05	-05 28 01.1	15.7 T	B51
C/2006 S3	2011 06 25.95907	19 36 29.56	-05 16 17.6	15.4 N	945	C/2006 S3	2011 06 30.93290	19 30 11.32	-05 28 02.9	15.5 T	B51
C/2006 S3	2011 06 25.96234	19 36 29.39	-05 16 17.9	15.3 N	C10	C/2006 S3	2011 06 30.94329	19 30 10.51	-05 28 04.5	15.6 T	B51
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C/2006 S3	2011 06 25.96807	19 36 28.85	-05 16 19.3	15.5 N	945	C/2006 S3	2011 07 01.00457	19 30 05.79	-05 28 13.5	15.6 N	J38
C/2006 S3	2011 06 25.96885	19 36 28.88	-05 16 18.4	15.8 N	B66	C/2006 S3	2011 07 01.00496	19 30 05.75	-05 28 14.1	15.7 N	J38
C/2006 S3	2011 06 25.97030	19 36 28.79	-05 16 19.1	15.2 N	C10	C/2006 S3	2011 07 01.00505	19 30 05.75	-05 28 13.6	15.4 N	K 958
C/2006 S3	2011 06 25.98480	19 36 27.62	-05 16 22.0	15.5 N	945	C/2006 S3	2011 07 01.01704	19 30 04.82	-05 28 15.4	15.5 N	K 958
C/2006 S3	2011 06 25.98994	19 36 27.24	-05 16 21.8	15.5 T	945	C/2006 S3	2011 07 01.02810	19 30 03.97	-05 28 17.8	15.3 N	K 958
C/2006 S3	2011 06 25.99375	19 36 26.96	-05 16 22.9	16.5 N	B66	C/2006 S3	2011 07 01.32504	19 29 40.93	-05 29 01.9	15.9 N	KH47
C/2006 S3	2011 06 26.01892	19 36 25.18	-05 16 24.8	15.6 N	K 958	C/2006 S3	2011 07 01.33093	19 29 40.49	-05 29 03.0	15.7 N	KH47
C/2006 S3	2011 06 26.02993	19 36 24.29	-05 16 27.3	15.7 N	K 958	C/2006 S3	2011 07 01.33714	19 29 40.00	-05 29 04.2	16.2 N	KH47

C/2006 S3	2011 07 01.34756	19 29 39.19	-05 29 05.9	16.5 N	H45	C/2006 S3	2011 07 04.04598	19 26 08.69	-05 36 12.2	15.5 N	945
C/2006 S3	2011 07 01.35060	19 29 38.94	-05 29 06.5	16.4 N	H45	C/2006 S3	2011 07 04.05228	19 26 08.15	-05 36 14.2	15.5 N	945
C/2006 S3	2011 07 01.35290	19 29 38.77	-05 29 06.8	16.5 N	H45	C/2006 S3	2011 07 04.05440	19 26 08.04	-05 36 13.7	15.5 T	945
C/2006 S3	2011 07 01.35488	19 29 38.61	-05 29 07.2	16.3 N	H45	C/2006 S3	2011 07 05.91523	19 23 41.44	-05 41 22.8	15.6 N	K J97
C/2006 S3	2011 07 01.35679	19 29 38.48	-05 29 07.3	15.3 T	H45	C/2006 S3	2011 07 05.91672	19 23 41.31	-05 41 22.8	15.6 N	K J97
C/2006 S3	2011 07 01.35812	19 29 38.36	-05 29 07.5	15.4 T	H45	C/2006 S3	2011 07 05.94060	19 23 39.41	-05 41 27.3	15.7 N	B51
C/2006 S3	2011 07 01.95128	19 28 52.37	-05 30 39.2	16.9 N	C23	C/2006 S3	2011 07 05.95052	19 23 38.61	-05 41 28.8	15.6 N	B51
C/2006 S3	2011 07 01.95780	19 28 51.90	-05 30 39.7	15.3 N	C10	C/2006 S3	2011 07 05.96170	19 23 37.72	-05 41 30.9	15.7 N	B51
C/2006 S3	2011 07 01.95847	19 28 51.87	-05 30 40.5	16.7 N	C23	C/2006 S3	2011 07 06.36980	19 23 05.35	-05 42 40.0	16.4 N	H45
C/2006 S3	2011 07 01.96207	19 28 51.70	-05 30 41.4	15.1 N	C23	C/2006 S3	2011 07 06.37244	19 23 05.18	-05 42 40.2	16.2 N	H45
C/2006 S3	2011 07 01.96567	19 28 51.17	-05 30 41.3	16.8 N	C23	C/2006 S3	2011 07 06.37399	19 23 05.03	-05 42 40.6	16.4 N	H45
C/2006 S3	2011 07 01.96659	19 28 51.22	-05 30 41.0	15.3 N	C09	C/2006 S3	2011 07 06.37629	19 23 04.77	-05 42 41.0	16.4 N	H45
C/2006 S3	2011 07 01.96926	19 28 51.01	-05 30 41.2	17.1 N	C23	C/2006 S3	2011 07 06.38468	19 23 04.30	-05 42 42.5	16.3 N	H45
C/2006 S3	2011 07 01.97286	19 28 50.72	-05 30 43.0	17.0 N	C23	C/2006 S3	2011 07 06.38784	19 23 03.90	-05 42 43.0	16.3 N	H45
C/2006 S3	2011 07 01.97347	19 28 50.68	-05 30 42.1	15.3 N	C10	C/2006 S3	2011 07 07.32137	19 21 49.87	-05 45 24.2	15.6 N	G68
C/2006 S3	2011 07 01.97361	19 28 50.66	-05 30 42.1	15.4 N	C09	C/2006 S3	2011 07 07.34914	19 21 47.65	-05 45 29.6	15.7 N	G68
C/2006 S3	2011 07 01.97645	19 28 50.28	-05 30 43.4	17.0 N	C23	C/2006 S3	2011 07 07.35210	19 21 47.39	-05 45 29.8	16.3 N	H47
C/2006 S3	2011 07 01.98005	19 28 50.09	-05 30 43.6	16.9 N	C23	C/2006 S3	2011 07 07.35432	19 21 47.21	-05 45 30.1	16.2 N	H47
C/2006 S3	2011 07 01.98064	19 28 50.11	-05 30 43.4	15.3 N	C09	C/2006 S3	2011 07 07.35668	19 21 47.03	-05 45 30.5	16.2 N	H47
C/2006 S3	2011 07 01.98134	19 28 50.07	-05 30 43.2	15.3 N	C10	C/2006 S3	2011 07 07.35870	19 21 46.87	-05 45 30.9	16.2 N	H47
C/2006 S3	2011 07 01.98365	19 28 49.84	-05 30 44.4	17.0 N	C23	C/2006 S3	2011 07 07.37669	19 21 45.45	-05 45 34.6	15.7 N	G68
C/2006 S3	2011 07 01.98724	19 28 49.49	-05 30 44.7	15.8 N	C23	C/2006 S3	2011 07 07.96814	19 20 58.4	-05 47 18.2	16.1 T	583
C/2006 S3	2011 07 01.98767	19 28 49.55	-05 30 44.3	15.4 N	C09	C/2006 S3	2011 07 07.96914	19 20 58.3	-05 47 18.3	16.0 T	583
C/2006 S3	2011 07 01.99084	19 28 49.24	-05 30 45.6	16.5 N	C23	C/2006 S3	2011 07 07.97278	19 20 58.1	-05 47 18.7	16.2 T	583
C/2006 S3	2011 07 02.12450	19 28 38.83	-05 31 05.6	15.2 N	J24	C/2006 S3	2011 07 07.97377	19 20 57.9	-05 47 19.0	16.2 T	583
C/2006 S3	2011 07 02.13214	19 28 38.24	-05 31 06.9	15.2 N	J24	C/2006 S3	2011 07 07.97604	19 20 57.8	-05 47 19.6	16.1 T	583
C/2006 S3	2011 07 02.13595	19 28 37.92	-05 31 07.1	15.3 N	J24	C/2006 S3	2011 07 08.90532	19 19 43.78	-05 50 04.2	15.3 N	A01
C/2006 S3	2011 07 02.38699	19 28 18.42	-05 31 46.8	15.7 N	KH47	C/2006 S3	2011 07 08.90729	19 19 43.63	-05 50 04.7	15.2 N	A01
C/2006 S3	2011 07 02.39473	19 28 17.81	-05 31 47.8	15.7 N	KH47	C/2006 S3	2011 07 08.91123	19 19 43.31	-05 50 05.8	15.3 N	A01
C/2006 S3	2011 07 02.40038	19 28 17.35	-05 31 49.3	16.4 N	KH47	C/2006 S3	2011 07 08.92492	19 19 42.21	-05 50 08.5	15.6 N	939
C/2006 S3	2011 07 03.00126	19 27 30.59	-05 33 23.7	16.0 N	B96	C/2006 S3	2011 07 08.92642	19 19 42.17	-05 50 08.2	15.3 N	199
C/2006 S3	2011 07 03.00542	19 27 30.22	-05 33 24.5	16.9 N	B96	C/2006 S3	2011 07 08.93229	19 19 41.71	-05 50 09.8	15.3 N	199
C/2006 S3	2011 07 03.00993	19 27 29.85	-05 33 26.8	16.8 N	B96	C/2006 S3	2011 07 08.93244	19 19 41.59	-05 50 08.8	15.4 N	939
C/2006 S3	2011 07 03.01444	19 27 29.49	-05 33 26.9	16.6 N	B96	C/2006 S3	2011 07 08.93745	19 19 41.20	-05 50 09.0	15.4 N	939
C/2006 S3	2011 07 03.01896	19 27 29.15	-05 33 27.5	16.8 N	B96	C/2006 S3	2011 07 08.94802	19 19 40.40	-05 50 12.5	15.2 N	199
C/2006 S3	2011 07 03.21994	19 27 13.48	-05 33 58.7	15.6 N	G68	C/2006 S3	2011 07 08.96431	19 19 39.03	-05 50 15.5	15.6 N	213
C/2006 S3	2011 07 03.23016	19 27 12.65	-05 34 00.5	15.6 N	G68	C/2006 S3	2011 07 08.98191	19 19 37.60	-05 50 18.6	15.7 N	213
C/2006 S3	2011 07 03.24035	19 27 11.90	-05 34 02.1	15.7 N	G68	C/2006 S3	2011 07 08.98922	19 19 37.02	-05 50 20.6	15.6 N	213
C/2006 S3	2011 07 03.25076	19 27 11.07	-05 34 03.2	15.7 N	G68	C/2006 S3	2011 07 09.05414	19 19 31.81	-05 50 31.4	15.1 N	J24
C/2006 S3	2011 07 03.26118	19 27 10.27	-05 34 05.8	15.6 N	G68	C/2006 S3	2011 07 09.05753	19 19 31.51	-05 50 32.5	15.0 N	J24
C/2006 S3	2011 07 03.34853	19 27 03.34	-05 34 19.1	16.3 N	KH47	C/2006 S3	2011 07 09.06091	19 19 31.27	-05 50 33.3	14.9 N	J24
C/2006 S3	2011 07 03.35423	19 27 02.91	-05 34 19.8	15.9 N	KH47	C/2006 S3	2011 07 09.95464	19 18 19.98	-05 53 18.0	16.4 N	C23
C/2006 S3	2011 07 03.35892	19 27 02.54	-05 34 20.8	16.4 N	KH47	C/2006 S3	2011 07 09.95823	19 18 19.61	-05 53 15.4	15.8 N	C23
C/2006 S3	2011 07 03.38380	19 27 00.57	-05 34 24.9	16.4 N	H45	C/2006 S3	2011 07 09.96183	19 18 19.23	-05 53 17.1	15.2 N	C23
C/2006 S3	2011 07 03.38740	19 27 00.30	-05 34 25.4	16.3 N	H45	C/2006 S3	2011 07 09.96542	19 18 19.13	-05 53 17.2	15.5 N	C23
C/2006 S3	2011 07 03.38876	19 27 00.19	-05 34 25.7	16.3 N	H45	C/2006 S3	2011 07 09.96902	19 18 18.67	-05 53 18.1	15.7 N	C23
C/2006 S3	2011 07 03.39053	19 27 00.04	-05 34 25.8	16.4 N	H45	C/2006 S3	2011 07 09.97262	19 18 18.39	-05 53 19.6	15.8 N	C23
C/2006 S3	2011 07 03.39315	19 26 59.85	-05 34 26.5	16.3 N	H45	C/2006 S3	2011 07 09.97621	19 18 18.15	-05 53 19.5	15.7 N	C23
C/2006 S3	2011 07 03.39472	19 26 59.72	-05 34 26.5	16.4 N	H45	C/2006 S3	2011 07 09.97981	19 18 17.87	-05 53 19.6	15.5 N	C23
C/2006 S3	2011 07 03.98862	19 26 13.22	-05 36 02.8	15.0 N	C10	C/2006 S3	2011 07 09.98609	19 18 17.37	-05 53 21.8	16.6 N	B96
C/2006 S3	2011 07 04.00260	19 26 12.17	-05 36 04.7	15.1 N	C10	C/2006 S3	2011 07 09.99064	19 18 17.01	-05 53 22.4	16.8 N	B96
C/2006 S3	2011 07 04.03697	19 26 09.42	-05 36 10.7	15.4 N	945	C/2006 S3	2011 07 09.99519	19 18 16.64	-05 53 23.5	16.6 N	B96
C/2006 S3	2011 07 04.04106	19 26 09.03	-05 36 11.9	15.4 N	945	C/2006 S3	2011 07 09.99973	19 18 16.28	-05 53 24.0	16.8 N	B96

C/2006 S3	2011 07 10.00428	19 18 15.90	-05 53 24.7	16.7 N	B96
C/2006 S3	2011 07 10.02345	19 18 14.36	-05 53 27.7	15.6 N	232
C/2006 S3	2011 07 10.02872	19 18 13.91	-05 53 28.5	15.6 N	232
C/2006 S3	2011 07 10.03567	19 18 13.40	-05 53 29.8	15.6 N	232
C/2006 S3	2011 07 10.33399	19 17 49.48	-05 54 24.3	15.5 N	H47
C/2006 S3	2011 07 10.33633	19 17 49.30	-05 54 25.2	16.3 N	H47
C/2006 S3	2011 07 10.33840	19 17 49.11	-05 54 25.5	16.0 N	H47
C/2006 S3	2011 07 11.59049	19 16 08.84	-05 58 18.9	16.7 N	379
C/2006 S3	2011 07 11.59235	19 16 08.69	-05 58 19.4	16.6 N	379
C/2006 S3	2011 07 11.59823	19 16 08.22	-05 58 20.4	16.5 N	379

C/2006 U6 (Spacewatch)

C/2006 U6	2006 11 09.20858	23 25 02.13	+00 40 18.2	19.6 N	7 705
C/2006 U6	2006 11 09.20942	23 25 02.12	+00 40 17.9	19.9 N	7 705
C/2006 U6	2006 11 09.21190	23 25 02.07	+00 40 16.8	19.3 N	7 705
C/2006 U6	2006 11 10.24618	23 24 45.09	+00 33 18.2	19.8 N	7 705
C/2006 U6	2006 11 10.24700	23 24 45.06	+00 33 17.7	20.1 N	7 705
C/2006 U6	2006 11 10.24949	23 24 45.03	+00 33 16.8	19.4 N	7 705
C/2006 U6	2006 11 13.21200	23 24 00.14	+00 13 43.6	19.6 N	7 705
C/2006 U6	2006 11 13.21283	23 24 00.13	+00 13 43.3	19.8 N	7 705
C/2006 U6	2006 11 13.21532	23 24 00.11	+00 13 42.1	19.2 N	7 705
C/2006 U6	2006 11 14.21007	23 23 46.28	+00 07 17.5	19.7 N	7 705
C/2006 U6	2006 11 14.21090	23 23 46.26	+00 07 17.1	19.8 N	7 705
C/2006 U6	2006 11 14.21339	23 23 46.23	+00 07 16.1	19.3 N	7 705
C/2006 U6	2006 11 16.20766	23 23 20.46	-00 05 22.8	19.5 N	7 705
C/2006 U6	2006 11 16.20848	23 23 20.45	-00 05 23.1	19.8 N	7 705
C/2006 U6	2006 11 16.21097	23 23 20.42	-00 05 24.0	19.2 N	7 705
C/2006 U6	2006 11 21.22732	23 22 27.19	-00 35 48.5	19.6 N	7 705
C/2006 U6	2006 11 21.22815	23 22 27.18	-00 35 48.9	19.8 N	7 705
C/2006 U6	2006 11 21.23064	23 22 27.17	-00 35 49.6	19.2 N	7 705
C/2006 U6	2006 11 23.20959	23 22 10.83	-00 47 15.2	19.6 N	7 705
C/2006 U6	2006 11 23.21041	23 22 10.82	-00 47 15.6	19.9 N	7 705
C/2006 U6	2006 11 23.21290	23 22 10.81	-00 47 16.3	19.2 N	7 705
C/2006 U6	2006 11 24.19582	23 22 03.68	-00 52 49.6	19.7 N	7 705
C/2006 U6	2006 11 24.19665	23 22 03.67	-00 52 49.7	20.0 N	7 705
C/2006 U6	2006 11 24.19914	23 22 03.64	-00 52 50.9	19.2 N	7 705

C/2006 W3 (Christensen)

C/2006 W3	2011 05 11.28856	17 36 26.41	-64 07 11.6	17.7 N	I40
C/2006 W3	2011 05 11.29082	17 36 26.22	-64 07 12.1	16.8 N	I40
C/2006 W3	2011 05 11.29319	17 36 25.95	-64 07 12.7	16.4 N	I40
C/2006 W3	2011 05 11.30239	17 36 25.07	-64 07 16.2	16.7 N	I40
C/2006 W3	2011 05 11.30458	17 36 24.85	-64 07 17.0	16.4 N	I40
C/2006 W3	2011 05 15.29924	17 29 34.03	-64 28 04.5	17.2 N	I40
C/2006 W3	2011 05 15.30072	17 29 33.92	-64 28 05.3	17.1 N	I40
C/2006 W3	2011 05 15.30223	17 29 33.80	-64 28 05.4	16.3 N	I40
C/2006 W3	2011 05 15.30371	17 29 33.57	-64 28 05.7	16.3 N	I40
C/2006 W3	2011 05 15.30524	17 29 33.39	-64 28 06.1	16.8 N	I40
C/2006 W3	2011 05 15.30673	17 29 33.25	-64 28 06.9	16.8 N	I40
C/2006 W3	2011 05 15.30821	17 29 33.11	-64 28 06.9	16.8 N	I40
C/2006 W3	2011 05 15.30970	17 29 32.90	-64 28 07.6	16.9 N	I40
C/2006 W3	2011 05 15.31119	17 29 32.78	-64 28 08.0	16.8 N	I40
C/2006 W3	2011 05 15.31268	17 29 32.62	-64 28 08.5	16.8 N	I40
C/2006 W3	2011 06 12.28989	16 35 23.14	-65 26 31.9	17.3 N	I40

C/2006 W3	2011 06 12.29139	16 35 22.96	-65 26 31.9	16.5 N	I40
C/2006 W3	2011 06 12.29292	16 35 22.77	-65 26 31.9	17.0 N	I40
C/2006 W3	2011 06 12.29590	16 35 22.41	-65 26 31.5	17.0 N	I40
C/2006 W3	2011 06 19.66051	16 21 26.17	-65 15 34.7	17.4 N	30D90
C/2006 W3	2011 06 19.66385	16 21 25.86	-65 15 34.6	17.5 N	30D90
C/2006 W3	2011 06 29.52615	16 04 27.50	-64 46 42.0	16.7 N	KD96
C/2006 W3	2011 06 29.57878	16 04 22.45	-64 46 29.0	16.5 N	KD96
C/2006 W3	2011 06 29.62769	16 04 17.72	-64 46 17.7		30E03
C/2006 W3	2011 06 29.63067	16 04 17.37	-64 46 17.0		30E03
C/2006 W3	2011 06 29.63366	16 04 16.97	-64 46 16.2	15.3 T	30E03

C/2007 M3 (LINEAR)

C/2007 M3	2006 11 12.09881	20 57 49.25	+01 08 36.4	20.8 N	7 705
C/2007 M3	2006 11 12.10088	20 57 49.14	+01 08 35.6	20.3 N	7 705
C/2007 M3	2006 11 14.10815	20 56 56.95	+00 56 22.9	20.7 N	7 705
C/2007 M3	2006 11 14.11147	20 56 56.85	+00 56 21.6	20.5 N	7 705
C/2007 M3	2006 11 16.10572	20 56 09.22	+00 44 40.3	20.6 N	7 705
C/2007 M3	2006 11 16.10655	20 56 09.20	+00 44 40.1	20.7 N	7 705
C/2007 M3	2006 11 16.10903	20 56 09.13	+00 44 38.9	20.8 N	7 705
C/2007 M3	2006 11 18.07748	20 55 26.17	+00 33 33.3	20.8 N	7 705
C/2007 M3	2006 11 18.07831	20 55 26.17	+00 33 32.8	20.7 N	7 705
C/2007 M3	2006 11 18.08080	20 55 26.11	+00 33 32.1	20.5 N	7 705
C/2007 M3	2006 11 23.10758	20 53 53.96	+00 07 09.8	21.0 N	7 705
C/2007 M3	2006 11 23.11048	20 53 53.95	+00 07 08.9	20.7 N	7 705

C/2007 Q3 (Siding Spring)

C/2007 Q3	2011 06 16.97582	18 36 36.55	+43 59 59.5	18.7 N	B96
C/2007 Q3	2011 06 16.98929	18 36 35.87	+44 00 01.7	18.6 N	B96
C/2007 Q3	2011 06 16.99382	18 36 35.91	+43 59 59.6	18.8 N	B96
C/2007 Q3	2011 06 16.99834	18 36 35.64	+44 00 00.3	18.4 N	B96
C/2007 Q3	2011 06 20.02722	18 34 40.12	+43 57 36.9		K 118
C/2007 Q3	2011 06 20.04195	18 34 39.50	+43 57 35.3		K 118
C/2007 Q3	2011 06 23.99225	18 32 07.97	+43 52 15.8	18.7 N	K 958
C/2007 Q3	2011 06 24.00376	18 32 07.51	+43 52 15.1	18.9 N	K 958
C/2007 Q3	2011 06 24.01523	18 32 07.08	+43 52 11.7	18.9 N	K 958
C/2007 Q3	2011 06 27.00407	18 30 13.00	+43 46 32.4	19.3 N	B51
C/2007 Q3	2011 06 27.02133	18 30 12.21	+43 46 31.5	19.4 N	B51
C/2007 Q3	2011 06 27.05074	18 30 10.66	+43 46 29.8	18.6 N	K 958
C/2007 Q3	2011 06 27.06176	18 30 10.25	+43 46 27.2	18.1 N	K 958
C/2007 Q3	2011 06 27.07278	18 30 09.88	+43 46 25.3	18.2 N	K 958
C/2007 Q3	2011 06 27.072416	18 29 37.46	+43 44 30.6	19.8 N	KA13
C/2007 Q3	2011 06 27.94505	18 29 36.72	+43 44 27.6	19.8 N	KA13
C/2007 Q3	2011 07 01.05023	18 27 38.86	+43 36 37.2	19.1 N	B54
C/2007 Q3	2011 07 01.05374	18 27 38.75	+43 36 36.9	19.5 N	B54
C/2007 Q3	2011 07 01.10895	18 27 36.63	+43 36 26.0	19.3 N	B54
C/2007 Q3	2011 07 01.93650	18 27 05.47	+43 34 04.0	19.7 N	K C10
C/2007 Q3	2011 07 01.95356	18 27 04.94	+43 34 03.2	20.3 N	K C10
C/2007 Q3	2011 07 05.02230	18 25 10.87	+43 24 23.2	17.5 N	KA77
C/2007 Q3	2011 07 05.02848	18 25 10.56	+43 24 21.6	18.2 N	KA77
C/2007 Q3	2011 07 05.03463	18 25 10.28	+43 24 19.5	18.5 N	KA77
C/2007 Q3	2011 07 05.89205	18 24 38.80	+43 21 23.4	19.3 N	KA13
C/2007 Q3	2011 07 05.91304	18 24 38.07	+43 21 18.5	19.4 N	KA13

C/2007 VO₅₃ (Spacewatch)

C/2007 VO ₅₃	2011 06 12.06783	16 16 50.05	+45 44 40.7	17.6 N	K 958
C/2007 VO ₅₃	2011 06 12.07885	16 16 49.33	+45 44 36.5	18.2 N	K 958
C/2007 VO ₅₃	2011 06 12.09002	16 16 48.27	+45 44 28.3	18.1 N	K 958
C/2007 VO ₅₃	2011 06 14.95829	16 13 47.90	+45 20 57.1	17.4 N	K 958
C/2007 VO ₅₃	2011 06 14.96979	16 13 47.36	+45 20 51.3	18.6 N	K 958
C/2007 VO ₅₃	2011 06 14.98128	16 13 46.25	+45 20 45.7	18.0 N	K 958
C/2007 VO ₅₃	2011 06 17.03424	16 11 41.04	+45 03 02.0	17.8 N	K 958
C/2007 VO ₅₃	2011 06 17.04525	16 11 40.05	+45 02 56.9	18.1 N	K 958
C/2007 VO ₅₃	2011 06 17.05627	16 11 39.51	+45 02 49.8	17.9 N	K 958
C/2007 VO ₅₃	2011 06 23.98660	16 05 03.20	+43 57 50.9	18.0 N	K 958
C/2007 VO ₅₃	2011 06 24.05361	16 04 59.66	+43 57 11.1	18.3 N	K 958
C/2007 VO ₅₃	2011 06 24.06197	16 04 59.19	+43 57 07.9	18.3 N	K 958
C/2007 VO ₅₃	2011 06 24.91318	16 04 13.72	+43 48 38.7	18.1 N	B51
C/2007 VO ₅₃	2011 06 24.92857	16 04 12.92	+43 48 29.4	18.2 N	B51
C/2007 VO ₅₃	2011 07 01.93079	15 58 24.39	+42 34 57.0	18.0 N	C23
C/2007 VO ₅₃	2011 07 02.00870	15 58 21.08	+42 34 06.4	18.1 N	C23

C/2008 FK₇₅ (Lemmon-Siding Spring)

C/2008 FK ₇₅	2010 09 01.88228	17 28 15.11	+39 17 53.4	17.0 N	K 473
C/2008 FK ₇₅	2010 10 02.85718	17 46 32.07	+36 07 00.0	16.9 N	K 473
C/2008 FK ₇₅	2010 10 02.86150	17 46 32.34	+36 06 59.2	16.8 N	K 473
C/2008 FK ₇₅	2010 10 02.86247	17 46 32.36	+36 06 58.4	17.1 N	K 473
C/2008 FK ₇₅	2011 06 04.69946	22 46 36.34	+48 19 26.5	16.2 T	349
C/2008 FK ₇₅	2011 06 04.70616	22 46 36.52	+48 19 28.9		349
C/2008 FK ₇₅	2011 06 17.03347	22 52 35.72	+49 46 09.5	17.1 N	B96
C/2008 FK ₇₅	2011 06 17.03800	22 52 35.78	+49 46 10.8	17.9 N	B96
C/2008 FK ₇₅	2011 06 17.04252	22 52 35.97	+49 46 13.2	17.7 N	B96
C/2008 FK ₇₅	2011 06 17.04706	22 52 36.10	+49 46 15.2	17.7 N	B96
C/2008 FK ₇₅	2011 06 17.05160	22 52 36.11	+49 46 18.3	17.7 N	B96
C/2008 FK ₇₅	2011 06 19.06472	22 53 21.97	+49 59 32.8	17.1 N	J01
C/2008 FK ₇₅	2011 06 19.07419	22 53 22.16	+49 59 36.8	17.6 N	J01
C/2008 FK ₇₅	2011 06 21.06408	22 54 03.64	+50 12 26.6	16.4 N	K 958
C/2008 FK ₇₅	2011 06 21.07560	22 54 03.80	+50 12 29.4	16.4 N	K 958
C/2008 FK ₇₅	2011 06 21.08713	22 54 04.06	+50 12 32.6	16.6 N	K 958
C/2008 FK ₇₅	2011 06 24.06995	22 54 59.41	+50 31 13.5	16.7 N	K 958
C/2008 FK ₇₅	2011 06 24.08145	22 54 59.52	+50 31 18.7	16.5 N	K 958
C/2008 FK ₇₅	2011 06 24.09297	22 54 59.73	+50 31 23.3	16.4 N	K 958
C/2008 FK ₇₅	2011 06 24.19301	22 55 01.53	+50 32 00.5	17.1 N	J24
C/2008 FK ₇₅	2011 06 24.19949	22 55 01.65	+50 32 03.2	17.1 N	J24
C/2008 FK ₇₅	2011 06 24.21247	22 55 01.88	+50 32 08.0	17.1 N	J24
C/2008 FK ₇₅	2011 06 26.03374	22 55 30.90	+50 43 06.9	16.3 N	K 958
C/2008 FK ₇₅	2011 06 26.04525	22 55 31.11	+50 43 10.8	16.0 N	K 958
C/2008 FK ₇₅	2011 06 26.05675	22 55 31.46	+50 43 16.2	16.1 N	K 958
C/2008 FK ₇₅	2011 06 26.33565	22 55 35.79	+50 44 54.9		H10
C/2008 FK ₇₅	2011 06 26.33892	22 55 35.81	+50 44 56.4	16.1 T	H10
C/2008 FK ₇₅	2011 06 26.97744	22 55 45.13	+50 48 42.7	16.5 N	C09
C/2008 FK ₇₅	2011 06 26.98447	22 55 45.26	+50 48 45.2	16.5 N	C09
C/2008 FK ₇₅	2011 06 26.99150	22 55 45.33	+50 48 48.0	16.5 N	C09
C/2008 FK ₇₅	2011 06 26.99854	22 55 45.44	+50 48 50.4	16.6 N	C09
C/2008 FK ₇₅	2011 06 27.11056	22 55 46.84	+50 49 30.9	16.2 N	K 958
C/2008 FK ₇₅	2011 06 27.12206	22 55 46.98	+50 49 35.2	15.9 N	K 958
C/2008 FK ₇₅	2011 06 27.13358	22 55 47.12	+50 49 38.8	15.9 N	K 958

C/2008 FK ₇₅	2011 06 27.94258	22 55 58.40	+50 54 22.0	17.8 N	C47
C/2008 FK ₇₅	2011 06 27.94330	22 55 58.51	+50 54 20.6	17.6 N	C47
C/2008 FK ₇₅	2011 06 27.94617	22 55 58.53	+50 54 22.7	17.7 N	C47
C/2008 FK ₇₅	2011 06 27.98995	22 55 59.16	+50 54 37.0	17.7 N	C47
C/2008 FK ₇₅	2011 06 27.99067	22 55 59.22	+50 54 38.5	17.8 N	C47
C/2008 FK ₇₅	2011 06 27.99139	22 55 59.07	+50 54 39.0	17.3 N	C47
C/2008 FK ₇₅	2011 06 27.99555	22 55 59.15	+50 54 40.2	16.9 N	K 215
C/2008 FK ₇₅	2011 06 27.99643	22 55 59.16	+50 54 40.6	17.0 N	K 215
C/2008 FK ₇₅	2011 06 27.99731	22 55 59.17	+50 54 40.9	16.8 N	K 215
C/2008 FK ₇₅	2011 06 30.96332	22 56 34.44	+51 11 28.7	17.0 N	B51
C/2008 FK ₇₅	2011 06 30.97878	22 56 34.58	+51 11 34.2	17.1 N	B51
C/2008 FK ₇₅	2011 07 01.11553	22 56 35.74	+51 12 18.1	16.8 N	K 958
C/2008 FK ₇₅	2011 07 01.12539	22 56 35.93	+51 12 22.2	16.8 N	K 958
C/2008 FK ₇₅	2011 07 01.13524	22 56 36.16	+51 12 25.9	16.7 N	K 958
C/2008 FK ₇₅	2011 07 01.91928	22 56 43.92	+51 16 42.0	17.5 N	C09
C/2008 FK ₇₅	2011 07 01.92631	22 56 44.00	+51 16 44.4	17.2 N	C09
C/2008 FK ₇₅	2011 07 01.93333	22 56 44.07	+51 16 47.0	17.2 N	C09
C/2008 FK ₇₅	2011 07 01.94037	22 56 44.16	+51 16 49.2	16.9 N	C09
C/2008 FK ₇₅	2011 07 02.28502	22 56 47.31	+51 18 41.5	18.0 T	H45
C/2008 FK ₇₅	2011 07 02.28905	22 56 47.34	+51 18 43.1	17.9 T	H45
C/2008 FK ₇₅	2011 07 02.29155	22 56 47.37	+51 18 43.9	18.0 T	H45
C/2008 FK ₇₅	2011 07 02.30276	22 56 47.53	+51 18 48.0	18.0 T	H45
C/2008 FK ₇₅	2011 07 02.30646	22 56 47.55	+51 18 49.3	17.9 T	H45
C/2008 FK ₇₅	2011 07 02.95536	22 56 53.24	+51 22 16.4	17.6 N	B96
C/2008 FK ₇₅	2011 07 02.95987	22 56 53.30	+51 22 18.3	17.7 N	B96
C/2008 FK ₇₅	2011 07 02.96439	22 56 53.22	+51 22 19.2	17.7 N	B96
C/2008 FK ₇₅	2011 07 02.96890	22 56 53.30	+51 22 20.5	17.8 N	B96
C/2008 FK ₇₅	2011 07 05.08393	22 57 08.91	+51 33 23.2	17.3 N	K C10
C/2008 FK ₇₅	2011 07 05.09137	22 57 08.94	+51 33 25.6	17.3 N	K C10
C/2008 FK ₇₅	2011 07 09.95836	22 57 28.55	+51 56 56.7	16.9 N	235
C/2008 FK ₇₅	2011 07 09.96477	22 57 28.47	+51 56 58.0	16.9 N	235

C/2008 S3 (Boattini)

C/2008 S3	2011 06 26.39605	01 04 56.70	+18 45 20.6		H10
C/2008 S3	2011 06 26.40013	01 04 56.84	+18 45 20.5		H10
C/2008 S3	2011 06 26.40414	01 04 56.67	+18 45 20.8	17.5 T	H10
C/2008 S3	2011 06 26.41279	01 04 56.62	+18 45 21.4		32H06
C/2008 S3	2011 06 26.41760	01 04 56.55	+18 45 22.0	17.3 T	32H06
C/2008 S3	2011 07 01.10822	01 04 11.38	+18 52 04.2	18.1 N	K 958
C/2008 S3	2011 07 01.12027	01 04 11.18	+18 52 04.0	18.0 N	K 958
C/2008 S3	2011 07 01.13023	01 04 11.17	+18 52 03.5	18.3 N	K 958

C/2009 F2 (McNaught)

C/2009 F2	2011 06 19.92630	15 06 38.75	+08 14 02.1	18.7 N	K 130
C/2009 F2	2011 06 19.93131	15 06 38.74	+08 14 03.3	18.5 N	K 130
C/2009 F2	2011 06 19.93529	15 06 38.66	+08 14 03.7	18.7 N	K 130
C/2009 F2	2011 06 19.93909	15 06 38.52	+08 14 03.7	18.4 N	K 130
C/2009 F2	2011 07 02.22817	15 04 27.81	+08 33 14.7		32H06
C/2009 F2	2011 07 02.23385	15 04 27.76	+08 33 15.0	18.8 T	32H06

C/2009 F4 (McNaught)

C/2009 F4	2011 06 12.45566	11 18 38.85	-80 15 13.9	14.2 N	30D90
C/2009 F4	2011 06 12.45906	11 18 38.43	-80 15 12.1	14.2 N	30D90
C/2009 F4	2011 06 12.46076	11 18 38.15	-80 15 11.4	14.2 N	30D90

C/2009 F4	2011 06 13.39585	11 16 35.67	-80 07 38.2	15.1 N	KD96
C/2009 F4	2011 06 13.41454	11 16 33.26	-80 07 28.7	15.0 N	KD96
C/2009 F4	2011 06 14.60811	11 14 06.52	-79 57 45.8		30E03
C/2009 F4	2011 06 14.61068	11 14 06.14	-79 57 44.2	12.9 T	30E03
C/2009 F4	2011 06 23.48331	11 00 47.29	-78 46 05.3	13.9 N	30D90
C/2009 F4	2011 06 23.48833	11 00 46.95	-78 46 02.9	13.9 N	30D90
C/2009 F4	2011 06 23.49669	11 00 46.42	-78 45 58.9	13.9 N	30D90
C/2009 F4	2011 06 27.41588	10 57 08.07	-78 15 26.0	14.2 N	KD96
C/2009 F4	2011 06 27.43128	10 57 07.27	-78 15 18.6	14.2 N	KD96
C/2009 F4	2011 06 27.47959	10 57 05.27	-78 14 55.6		30E03
C/2009 F4	2011 06 27.48438	10 57 05.06	-78 14 53.2	12.8 T	30E03
C/2009 F4	2011 06 29.51417	10 55 38.71	-77 59 31.2	14.2 N	KD96
C/2009 F4	2011 06 29.56365	10 55 36.88	-77 59 09.1	14.5 N	KD96

C/2009 P1 (Garradd)

C/2009 P1	2011 04 30.37860	22 57 16.16	-09 56 37.9	14.4 N	I40
C/2009 P1	2011 04 30.38085	22 57 16.21	-09 56 36.6	14.4 N	I40
C/2009 P1	2011 04 30.38304	22 57 16.26	-09 56 35.6	13.7 N	I40
C/2009 P1	2011 04 30.38522	22 57 16.30	-09 56 34.3	13.7 N	I40
C/2009 P1	2011 04 30.38740	22 57 16.36	-09 56 33.0	13.4 N	I40
C/2009 P1	2011 04 30.38959	22 57 16.39	-09 56 31.7	13.3 N	I40
C/2009 P1	2011 04 30.39177	22 57 16.43	-09 56 30.3	12.9 N	I40
C/2009 P1	2011 04 30.39395	22 57 16.48	-09 56 29.0	12.9 N	I40
C/2009 P1	2011 04 30.39616	22 57 16.52	-09 56 27.8	14.5 N	I40
C/2009 P1	2011 04 30.39834	22 57 16.57	-09 56 26.5	14.5 N	I40
C/2009 P1	2011 04 30.40053	22 57 16.61	-09 56 25.0	13.7 N	I40
C/2009 P1	2011 04 30.40271	22 57 16.64	-09 56 23.7	13.7 N	I40
C/2009 P1	2011 05 02.37975	22 57 55.42	-09 36 42.2	14.4 N	I40
C/2009 P1	2011 05 02.38067	22 57 55.46	-09 36 41.9	13.6 N	I40
C/2009 P1	2011 05 02.38154	22 57 55.45	-09 36 41.3	13.3 N	I40
C/2009 P1	2011 05 02.38250	22 57 55.49	-09 36 41.0	12.9 N	I40
C/2009 P1	2011 05 02.39812	22 57 55.77	-09 36 31.4	13.8 N	I40
C/2009 P1	2011 05 03.37926	22 58 14.14	-09 26 41.4	14.4 N	I40
C/2009 P1	2011 05 03.38087	22 58 14.16	-09 26 40.4	13.6 N	I40
C/2009 P1	2011 05 03.38241	22 58 14.19	-09 26 39.7	13.3 N	I40
C/2009 P1	2011 05 03.38396	22 58 14.23	-09 26 38.8	12.8 N	I40
C/2009 P1	2011 05 03.38552	22 58 14.25	-09 26 37.7	14.4 N	I40
C/2009 P1	2011 05 03.38707	22 58 14.27	-09 26 36.7	13.6 N	I40
C/2009 P1	2011 05 03.38864	22 58 14.31	-09 26 35.8	13.3 N	I40
C/2009 P1	2011 05 03.39021	22 58 14.33	-09 26 34.9	12.8 N	I40
C/2009 P1	2011 05 04.36761	22 58 32.04	-09 16 45.0	14.3 N	I40
C/2009 P1	2011 05 04.36853	22 58 32.06	-09 16 44.3	13.6 N	I40
C/2009 P1	2011 05 04.36938	22 58 32.05	-09 16 43.9	13.3 N	I40
C/2009 P1	2011 05 04.37023	22 58 32.08	-09 16 43.5	12.8 N	I40
C/2009 P1	2011 05 04.37109	22 58 32.10	-09 16 42.9	14.4 N	I40
C/2009 P1	2011 05 04.37194	22 58 32.12	-09 16 42.2	13.6 N	I40
C/2009 P1	2011 05 04.37279	22 58 32.13	-09 16 41.9	13.3 N	I40
C/2009 P1	2011 05 04.37363	22 58 32.13	-09 16 41.3	12.8 N	I40
C/2009 P1	2011 05 04.37901	22 58 32.24	-09 16 38.2	13.8 N	I40
C/2009 P1	2011 05 05.37495	22 58 49.61	-09 06 34.5	14.4 N	I40
C/2009 P1	2011 05 05.37588	22 58 49.64	-09 06 33.9	13.6 N	I40
C/2009 P1	2011 05 05.37674	22 58 49.66	-09 06 33.4	13.3 N	I40
C/2009 P1	2011 05 05.37759	22 58 49.66	-09 06 32.8	12.8 N	I40

C/2009 P1	2011 05 05.37849	22 58 49.68	-09 06 32.3	14.4 N	I40
C/2009 P1	2011 05 05.37934	22 58 49.69	-09 06 31.8	13.6 N	I40
C/2009 P1	2011 05 05.38019	22 58 49.70	-09 06 31.4	13.3 N	I40
C/2009 P1	2011 05 05.38104	22 58 49.72	-09 06 30.6	12.8 N	I40
C/2009 P1	2011 05 09.39838	22 59 53.05	-08 25 28.3	14.9 N	I40
C/2009 P1	2011 05 09.39926	22 59 53.05	-08 25 27.8	14.5 N	I40
C/2009 P1	2011 05 09.40006	22 59 53.08	-08 25 27.3	14.5 N	I40
C/2009 P1	2011 05 09.40085	22 59 53.08	-08 25 26.8	14.3 N	I40
C/2009 P1	2011 05 09.40167	22 59 53.11	-08 25 26.4	15.7 N	I40
C/2009 P1	2011 05 09.40247	22 59 53.09	-08 25 26.0	15.1 N	I40
C/2009 P1	2011 05 10.39899	23 00 07.04	-08 15 07.6	14.8 N	I40
C/2009 P1	2011 05 10.40064	23 00 07.05	-08 15 06.7	14.2 N	I40
C/2009 P1	2011 05 10.40220	23 00 07.07	-08 15 05.6	14.1 N	I40
C/2009 P1	2011 05 10.40374	23 00 07.09	-08 15 04.8	13.5 N	I40
C/2009 P1	2011 05 10.40532	23 00 07.11	-08 15 04.0	14.9 N	I40
C/2009 P1	2011 05 10.40714	23 00 07.15	-08 15 02.9	13.8 N	I40
C/2009 P1	2011 05 10.40868	23 00 07.16	-08 15 01.9	13.6 N	I40
C/2009 P1	2011 05 10.41022	23 00 07.18	-08 15 00.9	13.1 N	I40
C/2009 P1	2011 05 10.41178	23 00 07.20	-08 14 59.9	14.8 N	I40
C/2009 P1	2011 05 12.37930	23 00 32.49	-07 54 30.5	14.3 N	I40
C/2009 P1	2011 05 12.38091	23 00 32.50	-07 54 29.6	13.5 N	I40
C/2009 P1	2011 05 12.38245	23 00 32.52	-07 54 28.5	13.2 N	I40
C/2009 P1	2011 05 12.38399	23 00 32.55	-07 54 27.6	12.7 N	I40
C/2009 P1	2011 05 12.40735	23 00 32.80	-07 54 13.0	13.7 N	I40
C/2009 P1	2011 05 13.37959	23 00 44.19	-07 44 00.8	14.3 N	I40
C/2009 P1	2011 05 13.38122	23 00 44.21	-07 44 00.0	13.5 N	I40
C/2009 P1	2011 05 13.38276	23 00 44.21	-07 43 58.8	13.2 N	I40
C/2009 P1	2011 05 13.38430	23 00 44.23	-07 43 57.9	12.7 N	I40
C/2009 P1	2011 05 13.39016	23 00 44.30	-07 43 54.1	13.6 N	I40
C/2009 P1	2011 05 13.40780	23 00 44.49	-07 43 43.1	13.6 N	I40
C/2009 P1	2011 05 15.37603	23 01 05.10	-07 22 53.7	14.2 N	I40
C/2009 P1	2011 05 15.37774	23 01 05.11	-07 22 52.7	13.5 N	I40
C/2009 P1	2011 05 15.37935	23 01 05.12	-07 22 51.5	13.1 N	I40
C/2009 P1	2011 05 15.38096	23 01 05.13	-07 22 50.5	12.7 N	I40
C/2009 P1	2011 05 15.38687	23 01 05.19	-07 22 46.8	13.6 N	I40
C/2009 P1	2011 05 15.40463	23 01 05.35	-07 22 35.4	13.6 N	I40
C/2009 P1	2011 05 18.39884	23 01 30.22	-06 50 27.8	14.2 N	I40
C/2009 P1	2011 05 18.39976	23 01 30.22	-06 50 27.2	13.4 N	I40
C/2009 P1	2011 05 18.40062	23 01 30.23	-06 50 26.6	13.1 N	I40
C/2009 P1	2011 05 18.40158	23 01 30.24	-06 50 26.3	12.6 N	I40
C/2009 P1	2011 05 18.40705	23 01 30.25	-06 50 22.4	13.6 N	I40
C/2009 P1	2011 06 04.07534	23 00 56.63	-03 39 27.7	13.2 N	K 510
C/2009 P1	2011 06 04.08066	23 00 56.55	-03 39 23.6	13.2 N	K 510
C/2009 P1	2011 06 04.08597	23 00 56.49	-03 39 20.0	13.2 N	K 510
C/2009 P1	2011 06 04.09045	23 00 56.41	-03 39 16.6		K 510
C/2009 P1	2011 06 09.34213	22 59 29.48	-02 33 41.9	13.5 N	I40
C/2009 P1	2011 06 09.34307	22 59 29.45	-02 33 41.2	12.8 N	I40
C/2009 P1	2011 06 09.34560	22 59 29.40	-02 33 39.1	13.8 N	I40
C/2009 P1	2011 06 09.34620	22 59 29.38	-02 33 38.6	13.1 N	I40
C/2009 P1	2011 06 09.34671	22 59 29.37	-02 33 38.3	12.7 N	I40
C/2009 P1	2011 06 09.34721	22 59 29.37	-02 33 38.1	12.3 N	I40
C/2009 P1	2011 06 09.34775	22 59 29.36	-02 33 37.6	13.8 N	I40
C/2009 P1	2011 06 09.34826	22 59 29.34	-02 33 37.1	13.1 N	I40

C/2009 P1	2011 06 09.34876	22 59 29.34	-02 33 36.8	12.7 N	I40	C/2009 P1	2011 06 14.81606	22 57 09.26	-01 21 54.7	13.3 N	D96
C/2009 P1	2011 06 09.34929	22 59 29.33	-02 33 36.4	12.3 N	I40	C/2009 P1	2011 06 14.82659	22 57 08.93	-01 21 46.2	13.1 N	D96
C/2009 P1	2011 06 09.35452	22 59 29.22	-02 33 32.2	13.2 N	I40	C/2009 P1	2011 06 15.05814	22 57 01.89	-01 18 43.5	12.8 N	K 958
C/2009 P1	2011 06 09.37219	22 59 28.83	-02 33 18.9	13.2 N	I40	C/2009 P1	2011 06 15.06794	22 57 01.57	-01 18 35.6	12.6 N	K 958
C/2009 P1	2011 06 09.38982	22 59 28.44	-02 33 05.4	13.2 N	I40	C/2009 P1	2011 06 15.07775	22 57 01.24	-01 18 27.3	13.0 N	K 958
C/2009 P1	2011 06 11.37331	22 58 43.81	-02 07 33.8	12.0 N	H10	C/2009 P1	2011 06 15.37479	22 56 51.82	-01 14 22.4	13.8 N	I40
C/2009 P1	2011 06 11.37469	22 58 43.78	-02 07 32.8	12.2 N	H10	C/2009 P1	2011 06 15.37537	22 56 51.81	-01 14 22.1	13.1 N	I40
C/2009 P1	2011 06 11.37608	22 58 43.73	-02 07 31.8	12.0 N	H10	C/2009 P1	2011 06 15.37586	22 56 51.79	-01 14 21.5	12.7 N	I40
C/2009 P1	2011 06 11.37835	22 58 43.59	-02 07 26.4	13.8 N	I40	C/2009 P1	2011 06 15.37636	22 56 51.77	-01 14 21.1	12.3 N	I40
C/2009 P1	2011 06 11.37895	22 58 43.58	-02 07 25.8	13.0 N	I40	C/2009 P1	2011 06 15.37687	22 56 51.75	-01 14 20.6	14.0 N	I40
C/2009 P1	2011 06 11.37946	22 58 43.57	-02 07 25.5	12.7 N	I40	C/2009 P1	2011 06 15.37789	22 56 51.71	-01 14 19.8	12.8 N	I40
C/2009 P1	2011 06 11.38005	22 58 43.56	-02 07 25.0	12.2 N	I40	C/2009 P1	2011 06 15.37840	22 56 51.70	-01 14 19.3	12.3 N	I40
C/2009 P1	2011 06 11.38057	22 58 43.54	-02 07 24.5	13.8 N	I40	C/2009 P1	2011 06 15.38369	22 56 51.53	-01 14 15.2	13.2 N	I40
C/2009 P1	2011 06 11.38108	22 58 43.52	-02 07 24.3	13.0 N	I40	C/2009 P1	2011 06 15.40141	22 56 50.94	-01 14 00.8	13.2 N	I40
C/2009 P1	2011 06 11.38158	22 58 43.51	-02 07 24.0	12.7 N	I40	C/2009 P1	2011 06 15.41903	22 56 50.37	-01 13 46.4	13.3 N	I40
C/2009 P1	2011 06 11.38209	22 58 43.51	-02 07 23.6	12.2 N	I40	C/2009 P1	2011 06 16.05392	22 56 29.85	-01 05 12.3	12.6 N	213
C/2009 P1	2011 06 11.38738	22 58 43.36	-02 07 19.4	13.2 N	I40	C/2009 P1	2011 06 16.06787	22 56 29.43	-01 05 01.7	11.8 N	C09
C/2009 P1	2011 06 11.40504	22 58 42.92	-02 07 05.6	13.2 N	I40	C/2009 P1	2011 06 16.07425	22 56 29.20	-01 04 56.2	11.8 N	C09
C/2009 P1	2011 06 11.41466	22 58 42.78	-02 07 01.3		32H06	C/2009 P1	2011 06 16.08064	22 56 28.98	-01 04 50.8	11.8 N	C09
C/2009 P1	2011 06 11.41590	22 58 42.75	-02 07 00.3		32H06	C/2009 P1	2011 06 16.08701	22 56 28.76	-01 04 45.8	11.8 N	C09
C/2009 P1	2011 06 11.41714	22 58 42.71	-02 06 59.3		32H06	C/2009 P1	2011 06 16.09339	22 56 28.55	-01 04 40.4	11.9 N	C09
C/2009 P1	2011 06 11.41839	22 58 42.68	-02 06 58.4	10.4 T	32H06	C/2009 P1	2011 06 16.09693	22 56 28.43	-01 04 37.0	12.5 N	213
C/2009 P1	2011 06 12.10641	22 58 25.49	-01 57 59.6	12.9 N	K 958	C/2009 P1	2011 06 16.09977	22 56 28.35	-01 04 35.6	11.8 N	C09
C/2009 P1	2011 06 12.12272	22 58 25.08	-01 57 46.7	13.2 N	K 958	C/2009 P1	2011 06 16.10615	22 56 28.13	-01 04 30.2	11.8 N	C09
C/2009 P1	2011 06 12.13718	22 58 24.70	-01 57 35.2	13.1 N	K 958	C/2009 P1	2011 06 16.12205	22 56 27.56	-01 04 16.4	12.6 N	213
C/2009 P1	2011 06 12.35425	22 58 19.05	-01 54 40.3	13.8 N	I40	C/2009 P1	2011 06 17.07120	22 55 55.14	-00 51 16.0	13.0 N	K 958
C/2009 P1	2011 06 12.35482	22 58 19.05	-01 54 40.1	13.0 N	I40	C/2009 P1	2011 06 17.08262	22 55 54.72	-00 51 06.1	12.7 N	K 958
C/2009 P1	2011 06 12.35532	22 58 19.04	-01 54 39.5	12.7 N	I40	C/2009 P1	2011 06 17.09363	22 55 54.32	-00 50 57.0	13.0 N	K 958
C/2009 P1	2011 06 12.35582	22 58 19.03	-01 54 39.2	12.2 N	I40	C/2009 P1	2011 06 18.03315	22 55 20.30	-00 37 55.5	12.4 N	199
C/2009 P1	2011 06 12.35756	22 58 18.98	-01 54 37.7	12.9 N	I40	C/2009 P1	2011 06 18.03778	22 55 20.12	-00 37 52.1	12.4 N	199
C/2009 P1	2011 06 12.35930	22 58 18.93	-01 54 36.5	13.8 N	I40	C/2009 P1	2011 06 18.04322	22 55 19.90	-00 37 47.3	12.4 N	199
C/2009 P1	2011 06 12.35980	22 58 18.91	-01 54 36.1	13.0 N	I40	C/2009 P1	2011 06 18.19070	22 55 14.30	-00 35 42.4	12.4 N	J24
C/2009 P1	2011 06 12.36029	22 58 18.90	-01 54 35.8	12.7 N	I40	C/2009 P1	2011 06 18.20097	22 55 13.90	-00 35 33.9	12.3 N	J24
C/2009 P1	2011 06 12.36079	22 58 18.89	-01 54 35.3	12.2 N	I40	C/2009 P1	2011 06 18.20978	22 55 13.58	-00 35 26.6	12.4 N	J24
C/2009 P1	2011 06 12.36254	22 58 18.85	-01 54 33.9	12.9 N	I40	C/2009 P1	2011 06 19.07012	22 54 40.49	-00 23 24.0	12.3 N	199
C/2009 P1	2011 06 12.36897	22 58 18.66	-01 54 28.9	13.2 N	I40	C/2009 P1	2011 06 19.07270	22 54 40.40	-00 23 21.9	12.3 N	199
C/2009 P1	2011 06 12.38666	22 58 18.20	-01 54 14.8	13.2 N	I40	C/2009 P1	2011 06 19.07527	22 54 40.29	-00 23 19.8	12.4 N	199
C/2009 P1	2011 06 12.40432	22 58 17.71	-01 54 00.9	13.2 N	I40	C/2009 P1	2011 06 19.09952	22 54 39.31	-00 22 59.9	12.1 N	K 958
C/2009 P1	2011 06 13.10104	22 57 59.12	-01 44 53.3	12.2 N	A77	C/2009 P1	2011 06 19.10626	22 54 39.05	-00 22 53.7	13.6 N	J01
C/2009 P1	2011 06 13.10703	22 57 58.95	-01 44 48.5	12.3 N	A77	C/2009 P1	2011 06 19.11277	22 54 38.75	-00 22 48.0	11.9 N	K 958
C/2009 P1	2011 06 13.11130	22 57 58.83	-01 44 45.1	12.3 N	A77	C/2009 P1	2011 06 19.12459	22 54 38.32	-00 22 38.3	12.1 N	K 958
C/2009 P1	2011 06 13.13890	22 57 51.17	-01 41 03.6	12.4 N	14H06	C/2009 P1	2011 06 19.12524	22 54 38.28	-00 22 37.8	13.5 N	J01
C/2009 P1	2011 06 13.39816	22 57 50.93	-01 40 56.2	12.7 N	H10	C/2009 P1	2011 06 19.14432	22 54 37.50	-00 22 21.8	13.6 N	J01
C/2009 P1	2011 06 13.39921	22 57 50.88	-01 40 54.9	12.4 N	14H06	C/2009 P1	2011 06 19.80564	22 54 10.73	-00 12 56.4	11.8 N	30D90
C/2009 P1	2011 06 13.43809	22 57 49.77	-01 40 23.9	12.2 N	H10	C/2009 P1	2011 06 19.81098	22 54 10.50	-00 12 51.8	11.8 N	30D90
C/2009 P1	2011 06 13.75521	22 57 40.78	-01 36 11.7	12.4 N	372	C/2009 P1	2011 06 20.05459	22 54 00.54	-00 09 28.2	13 N	204
C/2009 P1	2011 06 13.75955	22 57 40.65	-01 36 08.4		372	C/2009 P1	2011 06 20.05630	22 54 00.46	-00 09 27.1	12.7 N	K 958
C/2009 P1	2011 06 14.38451	22 57 22.33	-01 27 43.3	13.8 N	I40	C/2009 P1	2011 06 20.06154	22 54 00.23	-00 09 22.5		204
C/2009 P1	2011 06 14.38561	22 57 22.28	-01 27 42.5	12.6 N	I40	C/2009 P1	2011 06 20.06744	22 53 59.99	-00 09 17.9	12.6 N	K 958
C/2009 P1	2011 06 14.38613	22 57 22.27	-01 27 42.1	12.2 N	I40	C/2009 P1	2011 06 20.06848	22 53 59.95	-00 09 16.5		204
C/2009 P1	2011 06 14.38769	22 57 22.22	-01 27 40.7	12.6 N	I40	C/2009 P1	2011 06 20.07882	22 53 59.50	-00 09 08.0	12.6 N	K 958
C/2009 P1	2011 06 14.39351	22 57 22.04	-01 27 35.9	13.1 N	I40	C/2009 P1	2011 06 20.94479	22 53 22.54	+00 03 15.2	11.8 N	585
C/2009 P1	2011 06 14.41116	22 57 21.50	-01 27 21.7	13.1 N	I40	C/2009 P1	2011 06 20.94769	22 53 22.42	+00 03 17.5	11.9 N	585

C/2009 P1	2011 06 20.94843	22 53 22.37	+00 03 18.6	11.9 N	585	C/2009 P1	2011 06 23.97208	22 50 59.28	+00 47 28.7	11.9 N	585
C/2009 P1	2011 06 20.95206	22 53 22.26	+00 03 21.3	11.9 N	585	C/2009 P1	2011 06 23.97279	22 50 59.25	+00 47 29.7	11.9 N	585
C/2009 P1	2011 06 20.95421	22 53 22.13	+00 03 23.0	12.0 N	585	C/2009 P1	2011 06 23.97351	22 50 59.21	+00 47 30.2	12.0 N	585
C/2009 P1	2011 06 20.95567	22 53 22.07	+00 03 24.5	11.9 N	585	C/2009 P1	2011 06 23.97422	22 50 59.17	+00 47 30.8	12.1 N	585
C/2009 P1	2011 06 20.95714	22 53 22.03	+00 03 25.8	11.9 N	585	C/2009 P1	2011 06 23.97566	22 50 59.09	+00 47 32.2	11.9 N	585
C/2009 P1	2011 06 20.95931	22 53 21.90	+00 03 27.8	12.1 N	585	C/2009 P1	2011 06 23.97637	22 50 59.07	+00 47 32.8	12.0 N	585
C/2009 P1	2011 06 20.96003	22 53 21.88	+00 03 27.9	11.8 N	585	C/2009 P1	2011 06 23.97708	22 50 59.03	+00 47 33.3	12.0 N	585
C/2009 P1	2011 06 21.04896	22 53 17.99	+00 04 45.7	12.4 N	213	C/2009 P1	2011 06 23.97780	22 50 58.97	+00 47 34.1	12.1 N	585
C/2009 P1	2011 06 21.05056	22 53 17.92	+00 04 46.6	12.4 N	213	C/2009 P1	2011 06 23.97924	22 50 58.92	+00 47 35.3	11.9 N	585
C/2009 P1	2011 06 21.06019	22 53 17.46	+00 04 55.0	12.4 N	213	C/2009 P1	2011 06 23.97994	22 50 58.87	+00 47 35.8	11.9 N	585
C/2009 P1	2011 06 21.08324	22 53 16.46	+00 05 14.7	12.6 N	K 958	C/2009 P1	2011 06 23.98066	22 50 58.85	+00 47 36.6	12.0 N	585
C/2009 P1	2011 06 21.09465	22 53 15.96	+00 05 24.4	12.5 N	K 958	C/2009 P1	2011 06 23.98138	22 50 58.81	+00 47 37.3	12.1 N	585
C/2009 P1	2011 06 21.10567	22 53 15.45	+00 05 34.0	12.6 N	K 958	C/2009 P1	2011 06 23.98281	22 50 58.71	+00 47 38.5	11.9 N	585
C/2009 P1	2011 06 22.94610	22 51 50.35	+00 32 19.4	11.9 N	585	C/2009 P1	2011 06 23.98352	22 50 58.68	+00 47 39.2	11.9 N	585
C/2009 P1	2011 06 22.94682	22 51 50.29	+00 32 20.1	11.9 N	585	C/2009 P1	2011 06 23.98424	22 50 58.64	+00 47 40.0	12.0 N	585
C/2009 P1	2011 06 22.94752	22 51 50.26	+00 32 20.8	12.1 N	585	C/2009 P1	2011 06 23.98494	22 50 58.62	+00 47 40.3	12.1 N	585
C/2009 P1	2011 06 22.94824	22 51 50.23	+00 32 21.5	12.1 N	585	C/2009 P1	2011 06 23.98639	22 50 58.56	+00 47 41.8	11.8 N	585
C/2009 P1	2011 06 22.95106	22 51 50.11	+00 32 23.9	11.9 N	585	C/2009 P1	2011 06 23.98709	22 50 58.51	+00 47 42.2	11.9 N	585
C/2009 P1	2011 06 22.95249	22 51 50.03	+00 32 25.0	12.0 N	585	C/2009 P1	2011 06 23.98781	22 50 58.47	+00 47 42.8	12.0 N	585
C/2009 P1	2011 06 22.95321	22 51 49.98	+00 32 25.6	12.1 N	585	C/2009 P1	2011 06 23.98853	22 50 58.42	+00 47 43.5	12.0 N	585
C/2009 P1	2011 06 22.95957	22 51 49.67	+00 32 31.5	12.1 N	585	C/2009 P1	2011 06 23.98997	22 50 58.36	+00 47 45.2	11.7 N	585
C/2009 P1	2011 06 22.96101	22 51 49.59	+00 32 32.9	11.9 N	585	C/2009 P1	2011 06 23.99067	22 50 58.33	+00 47 45.3	11.9 N	585
C/2009 P1	2011 06 22.96667	22 51 49.33	+00 32 37.6	12.0 N	585	C/2009 P1	2011 06 23.99139	22 50 58.28	+00 47 46.2	12.0 N	585
C/2009 P1	2011 06 22.96737	22 51 49.31	+00 32 38.2	11.9 N	585	C/2009 P1	2011 06 23.99211	22 50 58.25	+00 47 46.6	12.1 N	585
C/2009 P1	2011 06 22.96809	22 51 49.28	+00 32 38.8	12.0 N	585	C/2009 P1	2011 06 23.99354	22 50 58.18	+00 47 47.8	11.8 N	585
C/2009 P1	2011 06 22.96881	22 51 49.22	+00 32 39.6	12.1 N	585	C/2009 P1	2011 06 23.99425	22 50 58.14	+00 47 48.8	11.9 N	585
C/2009 P1	2011 06 22.97164	22 51 49.10	+00 32 42.3	11.9 N	585	C/2009 P1	2011 06 23.99497	22 50 58.08	+00 47 49.5	12.1 N	585
C/2009 P1	2011 06 22.97236	22 51 49.05	+00 32 42.5	12.0 N	585	C/2009 P1	2011 06 23.99567	22 50 58.07	+00 47 49.8	12.1 N	585
C/2009 P1	2011 06 22.97308	22 51 49.02	+00 32 43.4	12.1 N	585	C/2009 P1	2011 06 24.11320	22 50 52.02	+00 49 35.1	12.7 N	K 958
C/2009 P1	2011 06 22.97590	22 51 48.87	+00 32 45.7	11.9 N	585	C/2009 P1	2011 06 24.12447	22 50 51.43	+00 49 45.2	12.7 N	K 958
C/2009 P1	2011 06 22.97661	22 51 48.83	+00 32 46.5	12.0 N	585	C/2009 P1	2011 06 24.13546	22 50 50.87	+00 49 55.4	12.6 N	K 958
C/2009 P1	2011 06 22.97733	22 51 48.82	+00 32 46.9	12.0 N	585	C/2009 P1	2011 06 24.14531	22 50 50.35	+00 50 05.7	12.4 N	J24
C/2009 P1	2011 06 22.97804	22 51 48.78	+00 32 47.7	12.1 N	585	C/2009 P1	2011 06 24.15025	22 50 50.11	+00 50 10.1	12.4 N	J24
C/2009 P1	2011 06 22.98227	22 51 48.56	+00 32 51.5	11.9 N	585	C/2009 P1	2011 06 24.15397	22 50 49.94	+00 50 13.3	12.4 N	J24
C/2009 P1	2011 06 22.98299	22 51 48.54	+00 32 52.0	11.9 N	585	C/2009 P1	2011 06 25.03485	22 50 03.62	+01 03 22.0	12.1 N	J38
C/2009 P1	2011 06 22.98369	22 51 48.49	+00 32 52.5	12.0 N	585	C/2009 P1	2011 06 25.03562	22 50 03.57	+01 03 23.0	12.2 N	J38
C/2009 P1	2011 06 22.98441	22 51 48.46	+00 32 53.3	12.1 N	585	C/2009 P1	2011 06 25.03600	22 50 03.55	+01 03 23.5	12.2 N	J38
C/2009 P1	2011 06 22.98514	22 51 48.42	+00 32 54.1	11.9 N	585	C/2009 P1	2011 06 25.05103	22 50 02.75	+01 03 37.4	12.2 N	A01
C/2009 P1	2011 06 22.98584	22 51 48.38	+00 32 54.5	11.9 N	585	C/2009 P1	2011 06 25.05256	22 50 02.66	+01 03 38.8	12.2 N	A01
C/2009 P1	2011 06 22.98656	22 51 48.35	+00 32 55.3	12.0 N	585	C/2009 P1	2011 06 25.05333	22 50 02.62	+01 03 39.5	12.2 N	A01
C/2009 P1	2011 06 22.98728	22 51 48.32	+00 32 55.7	12.1 N	585	C/2009 P1	2011 06 25.05398	22 50 02.61	+01 03 39.5	12.6 N	K 958
C/2009 P1	2011 06 22.99150	22 51 48.12	+00 33 59.3	11.8 N	585	C/2009 P1	2011 06 25.05624	22 50 02.13	+01 03 47.5	12.4 N	199
C/2009 P1	2011 06 22.99221	22 51 48.09	+00 33 00.2	11.8 N	585	C/2009 P1	2011 06 25.06447	22 50 01.98	+01 03 49.8	12.6 N	B51
C/2009 P1	2011 06 22.99293	22 51 48.03	+00 33 00.7	12.0 N	585	C/2009 P1	2011 06 25.06525	22 50 01.98	+01 03 50.2	12.4 N	199
C/2009 P1	2011 06 22.99365	22 51 48.01	+00 33 01.4	12.0 N	585	C/2009 P1	2011 06 25.06530	22 50 02.00	+01 03 49.8	12.6 N	K 958
C/2009 P1	2011 06 23.03910	22 51 45.84	+00 33 42.1	12.2 N	199	C/2009 P1	2011 06 25.06806	22 50 01.82	+01 03 52.5	12.4 N	199
C/2009 P1	2011 06 23.04376	22 51 45.61	+00 33 46.4	12.2 N	199	C/2009 P1	2011 06 25.07144	22 50 01.58	+01 03 56.2	12.6 N	B51
C/2009 P1	2011 06 23.04610	22 51 45.50	+00 33 48.1	12.3 N	199	C/2009 P1	2011 06 25.07571	22 50 01.42	+01 03 59.4	12.4 N	K 958
C/2009 P1	2011 06 23.96779	22 50 59.48	+00 47 24.6	11.9 N	585	C/2009 P1	2011 06 25.07852	22 50 01.19	+01 04 02.6	12.6 N	B51
C/2009 P1	2011 06 23.96851	22 50 59.47	+00 47 25.6	11.9 N	585	C/2009 P1	2011 06 25.08521	22 50 00.85	+01 04 08.7	12.6 N	B51
C/2009 P1	2011 06 23.96921	22 50 59.45	+00 47 26.3	11.9 N	585	C/2009 P1	2011 06 25.09138	22 50 00.49	+01 04 14.4	12.6 N	B51
C/2009 P1	2011 06 23.96993	22 50 59.39	+00 47 27.2	12.0 N	585	C/2009 P1	2011 06 25.09147	22 50 00.55	+01 04 13.6	13.5 N	J01
C/2009 P1	2011 06 23.97065	22 50 59.36	+00 47 27.8	12.1 N	585	C/2009 P1	2011 06 25.09929	22 50 00.12	+01 04 20.8	13.5 N	J01

C/2009 P1	2011 06 25.10870	22 49 59.59	+01 04 29.1	13.5 N	J01	C/2009 P1	2011 06 27.05720	22 48 09.41	+01 34 07.8	13.6 N	B96
C/2009 P1	2011 06 25.11656	22 49 59.18	+01 04 36.4	13.5 N	J01	C/2009 P1	2011 06 27.05823	22 48 09.39	+01 34 08.5	12.6 N	J93
C/2009 P1	2011 06 25.39629	22 49 43.95	+01 08 49.6	12.6 N	KH47	C/2009 P1	2011 06 27.05860	22 48 09.37	+01 34 08.8		C23
C/2009 P1	2011 06 25.39935	22 49 43.77	+01 08 52.5	12.6 N	KH47	C/2009 P1	2011 06 27.06032	22 48 09.27	+01 34 10.4	13.7 N	B96
C/2009 P1	2011 06 25.40240	22 49 43.64	+01 08 55.0	12.4 N	KH47	C/2009 P1	2011 06 27.06219	22 48 09.08	+01 34 13.6		C23
C/2009 P1	2011 06 26.00873	22 49 10.01	+01 18 06.6	13.3 N	B66	C/2009 P1	2011 06 27.06346	22 48 09.09	+01 34 13.4	13.6 N	B96
C/2009 P1	2011 06 26.01523	22 49 09.66	+01 18 12.0		945	C/2009 P1	2011 06 27.06579	22 48 08.90	+01 34 15.9		C23
C/2009 P1	2011 06 26.01676	22 49 09.55	+01 18 13.6	12.3 N	945	C/2009 P1	2011 06 27.06939	22 48 08.74	+01 34 18.8		C23
C/2009 P1	2011 06 26.01887	22 49 09.46	+01 18 15.2	12.3 N	945	C/2009 P1	2011 06 27.07298	22 48 08.54	+01 34 22.0		C23
C/2009 P1	2011 06 26.02394	22 49 09.16	+01 18 19.9	12.3 N	945	C/2009 P1	2011 06 27.07777	22 48 08.24	+01 34 27.2	11.1 N	C09
C/2009 P1	2011 06 26.02655	22 49 09.00	+01 18 22.0	12.3 N	945	C/2009 P1	2011 06 27.08153	22 48 08.02	+01 34 30.7	12.1 N	939
C/2009 P1	2011 06 26.03281	22 49 08.62	+01 18 28.8	13.2 N	B66	C/2009 P1	2011 06 27.08201	22 48 07.98	+01 34 31.3	11.3 N	C09
C/2009 P1	2011 06 26.05772	22 49 07.20	+01 18 51.5	13.2 N	B66	C/2009 P1	2011 06 27.08620	22 48 07.74	+01 34 35.0	12.1 N	939
C/2009 P1	2011 06 26.06462	22 49 06.86	+01 18 56.9	12.2 N	J38	C/2009 P1	2011 06 27.08627	22 48 07.72	+01 34 35.1	11.3 N	C09
C/2009 P1	2011 06 26.06625	22 49 06.77	+01 18 58.6	12.3 N	J38	C/2009 P1	2011 06 27.09052	22 48 07.46	+01 34 39.1	11.3 N	C09
C/2009 P1	2011 06 26.07116	22 49 06.49	+01 19 02.9	12.2 N	J38	C/2009 P1	2011 06 27.09088	22 48 07.46	+01 34 39.3	12.1 N	939
C/2009 P1	2011 06 26.09172	22 49 05.22	+01 19 20.6	12.7 N	K 958	C/2009 P1	2011 06 27.41013	22 47 48.32	+01 39 35.0	12.8 N	KH47
C/2009 P1	2011 06 26.10314	22 49 04.66	+01 19 32.0	12.6 N	K 958	C/2009 P1	2011 06 27.41688	22 47 47.91	+01 39 41.2	12.8 N	KH47
C/2009 P1	2011 06 26.11385	22 49 04.06	+01 19 42.0	12.6 N	K 958	C/2009 P1	2011 06 27.42297	22 47 47.54	+01 39 46.8	12.8 N	KH47
C/2009 P1	2011 06 26.34341	22 48 51.04	+01 23 12.2		H10	C/2009 P1	2011 06 28.00870	22 47 11.93	+01 48 51.0	12.4 N	K 215
C/2009 P1	2011 06 26.34616	22 48 50.88	+01 23 14.9		H10	C/2009 P1	2011 06 28.00958	22 47 11.88	+01 48 51.7	12.3 N	K 215
C/2009 P1	2011 06 26.34922	22 48 50.71	+01 23 17.7	12.3 N	H10	C/2009 P1	2011 06 28.01046	22 47 11.83	+01 48 52.6	12.5 N	K 215
C/2009 P1	2011 06 26.39370	22 48 48.07	+01 23 58.1	12.5 N	KH47	C/2009 P1	2011 06 28.12883	22 47 04.39	+01 50 43.3	12.3 N	213
C/2009 P1	2011 06 26.39675	22 48 47.87	+01 24 01.2	12.8 N	KH47	C/2009 P1	2011 06 28.13157	22 47 04.24	+01 50 46.4	12.3 N	213
C/2009 P1	2011 06 26.39981	22 48 47.71	+01 24 03.9	12.6 N	KH47	C/2009 P1	2011 06 28.13435	22 47 04.09	+01 50 48.7	12.3 N	213
C/2009 P1	2011 06 26.99162	22 48 13.37	+01 33 07.4	12.1 N	C10	C/2009 P1	2011 06 28.98936	22 46 09.91	+02 04 10.9	12.0 N	152
C/2009 P1	2011 06 27.00264	22 48 12.68	+01 33 17.8	13.5 N	A71	C/2009 P1	2011 06 28.99006	22 46 09.87	+02 04 11.6	11.9 N	152
C/2009 P1	2011 06 27.00455	22 48 12.58	+01 33 19.0	13.4 N	A71	C/2009 P1	2011 06 28.99083	22 46 09.82	+02 04 12.4	11.9 N	152
C/2009 P1	2011 06 27.00579	22 48 12.53	+01 33 20.5	12.1 N	C10	C/2009 P1	2011 06 29.07105	22 46 04.59	+02 05 29.5	12.6 N	B51
C/2009 P1	2011 06 27.00645	22 48 12.47	+01 33 20.8	13.4 N	A71	C/2009 P1	2011 06 29.07370	22 46 04.48	+02 05 31.8	12.9 N	J19
C/2009 P1	2011 06 27.00834	22 48 12.35	+01 33 22.9	13.4 N	A71	C/2009 P1	2011 06 29.07690	22 46 04.21	+02 05 35.0	12.6 N	B51
C/2009 P1	2011 06 27.00837	22 48 12.32	+01 33 23.0		C23	C/2009 P1	2011 06 29.07805	22 46 04.19	+02 05 36.0	12.9 N	J19
C/2009 P1	2011 06 27.01025	22 48 12.24	+01 33 24.4	13.5 N	A71	C/2009 P1	2011 06 29.08241	22 46 03.91	+02 05 40.0	12.8 N	J19
C/2009 P1	2011 06 27.01215	22 48 12.13	+01 33 26.0	13.4 N	A71	C/2009 P1	2011 06 29.08342	22 46 03.81	+02 05 41.2	12.6 N	B51
C/2009 P1	2011 06 27.015142	22 48 11.96	+01 33 28.8	12.8 N	K 510	C/2009 P1	2011 06 29.08677	22 46 03.64	+02 05 44.0	12.6 N	J19
C/2009 P1	2011 06 27.01625	22 48 11.91	+01 33 30.2	12.1 N	C10	C/2009 P1	2011 06 29.09112	22 46 03.33	+02 05 48.4	12.9 N	J19
C/2009 P1	2011 06 27.021359	22 48 11.61	+01 33 34.6	12.8 N	K 510	C/2009 P1	2011 06 29.09548	22 46 03.06	+02 05 52.0	12.9 N	J19
C/2009 P1	2011 06 27.027577	22 48 11.23	+01 33 40.3	12.8 N	K 510	C/2009 P1	2011 06 29.09983	22 46 02.78	+02 05 56.4	12.5 N	J19
C/2009 P1	2011 06 27.03360	22 48 10.90	+01 33 46.0	12.2 N	K 958	C/2009 P1	2011 06 29.10419	22 46 02.48	+02 06 00.6	12.6 N	J19
C/2009 P1	2011 06 27.033794	22 48 10.86	+01 33 46.1	12.8 N	K 510	C/2009 P1	2011 06 29.10855	22 46 02.22	+02 06 04.3	12.8 N	J19
C/2009 P1	2011 06 27.03840	22 48 10.58	+01 33 50.3	13.8 N	B96	C/2009 P1	2011 06 29.11290	22 46 01.92	+02 06 08.6	12.8 N	J19
C/2009 P1	2011 06 27.04062	22 48 10.42	+01 33 52.5		C23	C/2009 P1	2011 06 29.11726	22 46 01.65	+02 06 12.5	12.9 N	J19
C/2009 P1	2011 06 27.04154	22 48 10.40	+01 33 53.2	13.7 N	B96	C/2009 P1	2011 06 29.12161	22 46 01.35	+02 06 16.8	12.6 N	J19
C/2009 P1	2011 06 27.04468	22 48 10.21	+01 33 56.2	13.6 N	B96	C/2009 P1	2011 06 29.29377	22 45 50.16	+02 08 59.5	11.7 T	H26
C/2009 P1	2011 06 27.04503	22 48 10.22	+01 33 56.3	12.3 N	K 958	C/2009 P1	2011 06 29.29420	22 45 50.11	+02 09 00.1	11.7 T	H26
C/2009 P1	2011 06 27.04549	22 48 10.18	+01 33 56.3	12.6 N	J93	C/2009 P1	2011 06 29.29461	22 45 50.10	+02 09 00.6	11.6 T	H26
C/2009 P1	2011 06 27.04780	22 48 10.02	+01 33 58.8	13.6 N	B96	C/2009 P1	2011 06 29.29539	22 45 50.06	+02 09 01.2	11.6 T	H26
C/2009 P1	2011 06 27.04781	22 48 10.02	+01 33 58.7		C23	C/2009 P1	2011 06 29.29579	22 45 50.02	+02 09 01.6	11.7 T	H26
C/2009 P1	2011 06 27.05094	22 48 09.82	+01 34 01.8	13.6 N	B96	C/2009 P1	2011 06 29.69957	22 45 23.32	+02 15 24.8	10.1 T	D95
C/2009 P1	2011 06 27.05354	22 48 09.68	+01 34 04.0	12.7 N	J93	C/2009 P1	2011 06 29.70032	22 45 23.26	+02 15 25.5		D95
C/2009 P1	2011 06 27.05406	22 48 09.63	+01 34 05.0	13.6 N	B96	C/2009 P1	2011 06 29.70106	22 45 23.21	+02 15 26.1		D95
C/2009 P1	2011 06 27.05500	22 48 09.54	+01 34 05.9		C23	C/2009 P1	2011 06 29.73817	22 45 20.71	+02 16 01.6		D81
C/2009 P1	2011 06 27.05660	22 48 09.47	+01 34 07.0	12.1 N	K 958	C/2009 P1	2011 06 29.74007	22 45 20.58	+02 16 03.4		D81

C/2009 P1	2011 06 29.74196	22 45 20.46	+02 16 05.3		D81	C/2009 P1	2011 07 01.02816	22 43 52.12	+02 36 38.2	11.9 N	C09
C/2009 P1	2011 06 29.74388	22 45 20.32	+02 16 07.0	9.7 T	D81	C/2009 P1	2011 07 01.03242	22 43 51.82	+02 36 42.3	11.9 N	C09
C/2009 P1	2011 06 30.01311	22 45 02.21	+02 20 22.8	10.9 N	585	C/2009 P1	2011 07 01.03667	22 43 51.53	+02 36 46.3	11.9 N	C09
C/2009 P1	2011 06 30.01416	22 45 02.16	+02 20 23.9	11.8 N	585	C/2009 P1	2011 07 01.04091	22 43 51.19	+02 36 50.6	11.8 N	C09
C/2009 P1	2011 06 30.01488	22 45 02.09	+02 20 25.0	11.8 N	585	C/2009 P1	2011 07 01.04516	22 43 50.91	+02 36 54.0	11.9 N	C09
C/2009 P1	2011 06 30.01561	22 45 02.06	+02 20 25.1	10.9 N	585	C/2009 P1	2011 07 01.04941	22 43 50.60	+02 36 58.6	11.9 N	C09
C/2009 P1	2011 06 30.01633	22 45 02.01	+02 20 25.9	11.8 N	585	C/2009 P1	2011 07 01.05366	22 43 50.29	+02 37 03.3	11.9 N	C09
C/2009 P1	2011 06 30.01793	22 45 01.91	+02 20 27.7	11.8 N	585	C/2009 P1	2011 07 01.08003	22 43 48.39	+02 37 28.3	12.1 N	K 958
C/2009 P1	2011 06 30.01863	22 45 01.86	+02 20 28.5	11.8 N	585	C/2009 P1	2011 07 01.09174	22 43 47.53	+02 37 39.5	12.2 N	K 958
C/2009 P1	2011 06 30.01935	22 45 01.81	+02 20 28.7	11.7 N	585	C/2009 P1	2011 07 01.10334	22 43 46.72	+02 37 51.1	12.0 N	K 958
C/2009 P1	2011 06 30.02147	22 45 01.65	+02 20 30.9	11.8 N	585	C/2009 P1	2011 07 01.31992	22 43 31.32	+02 41 21.2	10.3 T	H45
C/2009 P1	2011 06 30.02218	22 45 01.61	+02 20 32.3	11.8 N	585	C/2009 P1	2011 07 01.32207	22 43 31.18	+02 41 23.1	10.3 T	H45
C/2009 P1	2011 06 30.02288	22 45 01.54	+02 20 32.6	11.8 N	585	C/2009 P1	2011 07 01.32899	22 43 30.68	+02 41 29.8	10.5 T	H45
C/2009 P1	2011 06 30.02439	22 45 01.46	+02 20 34.0	11.3 N	585	C/2009 P1	2011 07 01.33103	22 43 30.53	+02 41 31.9	10.5 T	H45
C/2009 P1	2011 06 30.02475	22 45 01.42	+02 20 34.4	11.3 N	585	C/2009 P1	2011 07 01.33299	22 43 30.38	+02 41 33.8	10.4 T	H45
C/2009 P1	2011 06 30.02547	22 45 01.38	+02 20 35.0	11.3 N	585	C/2009 P1	2011 07 01.33543	22 43 30.21	+02 41 36.1	10.4 T	H45
C/2009 P1	2011 06 30.02583	22 45 01.34	+02 20 35.3	11.4 N	585	C/2009 P1	2011 07 01.39013	22 43 26.23	+02 42 29.3	12.3 N	KH47
C/2009 P1	2011 06 30.02619	22 45 01.31	+02 20 35.4	11.8 N	585	C/2009 P1	2011 07 01.40127	22 43 25.41	+02 42 40.3	12.4 N	KH47
C/2009 P1	2011 06 30.02762	22 45 01.32	+02 20 36.8	13.4 N	C23	C/2009 P1	2011 07 01.40619	22 43 25.05	+02 42 44.9	12.4 N	KH47
C/2009 P1	2011 06 30.03121	22 45 01.03	+02 20 39.7	13.4 N	C23	C/2009 P1	2011 07 01.99398	22 42 42.38	+02 52 16.8	12.0 N	945
C/2009 P1	2011 06 30.03248	22 45 00.88	+02 20 42.0	11.3 N	585	C/2009 P1	2011 07 01.99750	22 42 42.13	+02 52 20.5	12.0 N	945
C/2009 P1	2011 06 30.03481	22 45 00.69	+02 20 44.8	13.0 N	C23	C/2009 P1	2011 07 02.00112	22 42 41.89	+02 52 23.6	12.0 N	945
C/2009 P1	2011 06 30.03841	22 45 00.66	+02 20 46.5	13.1 N	C23	C/2009 P1	2011 07 02.00568	22 42 41.57	+02 52 27.7	12.0 N	945
C/2009 P1	2011 06 30.04524	22 45 00.06	+02 20 54.2	13.4 N	C23	C/2009 P1	2011 07 02.01100	22 42 41.20	+02 52 33.9	11.8 N	J38
C/2009 P1	2011 06 30.05603	22 44 59.33	+02 21 04.1	14.1 N	C23	C/2009 P1	2011 07 02.01154	22 42 41.11	+02 52 33.8	12.0 T	945
C/2009 P1	2011 06 30.05962	22 44 59.13	+02 21 07.1	13.4 N	C23	C/2009 P1	2011 07 02.01254	22 42 41.07	+02 52 34.9	11.8 N	J38
C/2009 P1	2011 06 30.06322	22 44 58.86	+02 21 11.0	13.5 N	C23	C/2009 P1	2011 07 02.01292	22 42 41.05	+02 52 35.0	11.8 N	J38
C/2009 P1	2011 06 30.06577	22 44 58.63	+02 21 14.1	12.0 N	A77	C/2009 P1	2011 07 02.05461	22 42 37.99	+02 53 13.9	12.9 N	C23
C/2009 P1	2011 06 30.06681	22 44 58.65	+02 21 14.0	13.7 N	C23	C/2009 P1	2011 07 02.06052	22 42 37.43	+02 53 21.4	13.8 N	C23
C/2009 P1	2011 06 30.07041	22 44 58.42	+02 21 17.2	13.5 N	C23	C/2009 P1	2011 07 02.06586	22 42 37.01	+02 53 26.5	13.4 N	C23
C/2009 P1	2011 06 30.07401	22 44 58.05	+02 21 20.3	13.4 N	C23	C/2009 P1	2011 07 02.07120	22 42 36.71	+02 53 31.3	13.8 N	C23
C/2009 P1	2011 06 30.08426	22 44 57.36	+02 21 32.0	11.9 N	A77	C/2009 P1	2011 07 02.07519	22 42 36.44	+02 53 36.1	11.7 N	C10
C/2009 P1	2011 06 30.10279	22 44 56.07	+02 21 49.9	11.9 N	A77	C/2009 P1	2011 07 02.08551	22 42 35.60	+02 53 46.0	11.7 N	C09
C/2009 P1	2011 06 30.31711	22 44 41.59	+02 25 14.4	10.4 T	H45	C/2009 P1	2011 07 02.08628	22 42 35.53	+02 53 45.6	11.7 N	C10
C/2009 P1	2011 06 30.32171	22 44 41.28	+02 25 19.0	10.4 T	H45	C/2009 P1	2011 07 02.08977	22 42 35.29	+02 53 49.9	11.7 N	C09
C/2009 P1	2011 06 30.32495	22 44 41.04	+02 25 21.9	10.4 T	H45	C/2009 P1	2011 07 02.09400	22 42 34.95	+02 53 54.5	11.7 N	C09
C/2009 P1	2011 06 30.32796	22 44 40.84	+02 25 25.0	10.4 T	H45	C/2009 P1	2011 07 02.09825	22 42 34.64	+02 53 58.6	11.7 N	C09
C/2009 P1	2011 06 30.32951	22 44 40.73	+02 25 26.4	10.5 T	H45	C/2009 P1	2011 07 02.30943	22 42 19.00	+02 57 25.8	10.2 T	H45
C/2009 P1	2011 06 30.33196	22 44 40.56	+02 25 28.8	10.5 T	H45	C/2009 P1	2011 07 02.31189	22 42 18.81	+02 57 28.3	10.2 T	H45
C/2009 P1	2011 06 30.38884	22 44 36.62	+02 26 23.7		32H06	C/2009 P1	2011 07 02.31453	22 42 18.61	+02 57 31.0	10.3 T	H45
C/2009 P1	2011 06 30.39006	22 44 36.56	+02 26 25.2		32H06	C/2009 P1	2011 07 02.31771	22 42 18.37	+02 57 34.1	10.3 T	H45
C/2009 P1	2011 06 30.39126	22 44 36.46	+02 26 26.3		32H06	C/2009 P1	2011 07 02.32135	22 42 18.10	+02 57 37.7	10.3 T	H45
C/2009 P1	2011 06 30.39245	22 44 36.37	+02 26 27.3		32H06	C/2009 P1	2011 07 02.32350	22 42 17.94	+02 57 39.8	10.3 T	H45
C/2009 P1	2011 06 30.39366	22 44 36.29	+02 26 28.5	9.5 T	32H06	C/2009 P1	2011 07 02.41719	22 42 10.82	+02 59 12.0	12.2 N	KH47
C/2009 P1	2011 06 30.40717	22 44 35.27	+02 26 41.2	12.4 N	H47	C/2009 P1	2011 07 02.42282	22 42 10.39	+02 59 17.5	12.2 N	KH47
C/2009 P1	2011 06 30.41024	22 44 35.06	+02 26 44.1	12.5 N	H47	C/2009 P1	2011 07 02.42756	22 42 10.02	+02 59 22.1	12.1 N	KH47
C/2009 P1	2011 06 30.41122	22 44 34.99	+02 26 45.0	12.5 N	H47	C/2009 P1	2011 07 03.02757	22 41 24.53	+03 09 13.2	13.3 N	B66
C/2009 P1	2011 06 30.99242	22 43 54.69	+02 36 03.9	11.9 N	J38	C/2009 P1	2011 07 03.04887	22 41 22.90	+03 09 33.4	13.2 N	B96
C/2009 P1	2011 06 30.99479	22 43 54.51	+02 36 05.9	12.0 N	J38	C/2009 P1	2011 07 03.05163	22 41 22.65	+03 09 37.1	13.3 N	B66
C/2009 P1	2011 06 30.99633	22 43 54.40	+02 36 07.3	11.9 N	J38	C/2009 P1	2011 07 03.05338	22 41 22.56	+03 09 37.8	13.2 N	B96
C/2009 P1	2011 07 01.01542	22 43 53.04	+02 36 25.9	11.9 N	C09	C/2009 P1	2011 07 03.05787	22 41 22.22	+03 09 41.9	13.2 N	B96
C/2009 P1	2011 07 01.01966	22 43 52.70	+02 36 30.3	11.8 N	C09	C/2009 P1	2011 07 03.06238	22 41 21.86	+03 09 46.6	13.2 N	B96
C/2009 P1	2011 07 01.02391	22 43 52.42	+02 36 33.6	11.9 N	C09	C/2009 P1	2011 07 03.06689	22 41 21.52	+03 09 51.0	13.2 N	B96

C/2009 P1	2011 07 03.07140	22 41 21.18	+03 09 55.6	13.3 N	B96	C/2009 P1	2011 07 07.01676	22 35 51.17	+04 16 27.0	13.4 N	A71
C/2009 P1	2011 07 03.07593	22 41 20.82	+03 10 00.0	13.3 N	B96	C/2009 P1	2011 07 07.41646	22 35 14.69	+04 23 22.7	12.4 N	KH47
C/2009 P1	2011 07 03.07652	22 41 20.70	+03 10 01.6	13.2 N	B66	C/2009 P1	2011 07 07.42093	22 35 14.27	+04 23 27.3	12.3 N	KH47
C/2009 P1	2011 07 03.09607	22 41 19.25	+03 10 20.4	12.2 N	213	C/2009 P1	2011 07 07.42517	22 35 13.87	+04 23 31.8	12.4 N	KH47
C/2009 P1	2011 07 03.10337	22 41 18.65	+03 10 27.5	12.2 N	213	C/2009 P1	2011 07 07.77078	22 34 41.95	+04 29 31.5		367
C/2009 P1	2011 07 03.11430	22 41 17.80	+03 10 38.5	12.2 N	213	C/2009 P1	2011 07 07.77199	22 34 41.84	+04 29 32.8		367
C/2009 P1	2011 07 03.32015	22 41 01.91	+03 14 02.6	10.5 T	H45	C/2009 P1	2011 07 07.77321	22 34 41.73	+04 29 34.0	9.3 T	367
C/2009 P1	2011 07 03.32185	22 41 01.78	+03 14 04.3	10.5 T	H45	C/2009 P1	2011 07 07.98350	22 34 22.25	+04 33 13.3	13.5 N	J01
C/2009 P1	2011 07 03.32322	22 41 01.68	+03 14 05.6	10.4 T	H45	C/2009 P1	2011 07 07.99441	22 34 21.13	+04 33 24.5	13.3 N	A71
C/2009 P1	2011 07 03.32580	22 41 01.48	+03 14 08.2	10.5 T	H45	C/2009 P1	2011 07 07.99725	22 34 20.86	+04 33 27.6	13.3 N	A71
C/2009 P1	2011 07 03.33016	22 41 01.13	+03 14 12.5	10.5 T	H45	C/2009 P1	2011 07 08.00007	22 34 20.63	+04 33 30.1	13.2 N	A71
C/2009 P1	2011 07 03.33270	22 41 00.94	+03 14 15.0	10.4 T	H45	C/2009 P1	2011 07 08.00291	22 34 20.33	+04 33 33.2	13.2 N	A71
C/2009 P1	2011 07 03.39825	22 40 55.74	+03 15 20.4	12.4 N	KH47	C/2009 P1	2011 07 08.00573	22 34 20.10	+04 33 36.2	13.1 N	A71
C/2009 P1	2011 07 03.40953	22 40 55.55	+03 15 22.9	12.7 N	KH47	C/2009 P1	2011 07 08.00855	22 34 19.81	+04 33 39.1	13.2 N	A71
C/2009 P1	2011 07 03.40282	22 40 55.37	+03 15 24.9	12.6 N	KH47	C/2009 P1	2011 07 08.01586	22 34 19.18	+04 33 48.3	11.9 N	B51
C/2009 P1	2011 07 03.40516	22 40 55.29	+03 15 27.0	13.0 N	G68	C/2009 P1	2011 07 08.01931	22 34 18.90	+04 33 50.4	13.5 N	J01
C/2009 P1	2011 07 03.40819	22 40 55.04	+03 15 29.9	13.0 N	G68	C/2009 P1	2011 07 08.02430	22 34 18.45	+04 33 57.4	12.0 N	B51
C/2009 P1	2011 07 03.40956	22 40 54.93	+03 15 31.3	13.0 N	G68	C/2009 P1	2011 07 08.02708	22 34 18.0	+04 33 58.9	12.2 T	583
C/2009 P1	2011 07 04.03723	22 40 05.26	+03 25 56.6	12.1 N	I99	C/2009 P1	2011 07 08.02787	22 34 17.9	+04 33 59.6	12.7 T	583
C/2009 P1	2011 07 04.03898	22 40 05.14	+03 25 58.4	12.1 N	I99	C/2009 P1	2011 07 08.02841	22 34 17.8	+04 34 00.1	12.3 T	583
C/2009 P1	2011 07 04.04074	22 40 05.00	+03 26 00.2	12.1 N	I99	C/2009 P1	2011 07 08.03052	22 34 17.7	+04 34 02.5	12.9 T	583
C/2009 P1	2011 07 04.06161	22 40 03.29	+03 26 20.5		945	C/2009 P1	2011 07 08.03106	22 34 17.6	+04 34 03.1	13.3 T	583
C/2009 P1	2011 07 04.06749	22 40 02.80	+03 26 26.5	12.0 N	945	C/2009 P1	2011 07 08.08203	22 34 12.92	+04 34 56.5	13.4 N	J01
C/2009 P1	2011 07 04.06937	22 40 02.62	+03 26 28.5	12.0 N	945	C/2009 P1	2011 07 08.13561	22 34 07.81	+04 35 52.4	13.3 N	J01
C/2009 P1	2011 07 04.07126	22 40 02.50	+03 26 30.5	12.0 N	945	C/2009 P1	2011 07 09.00154	22 32 44.87	+04 51 03.3	11.9 N	232
C/2009 P1	2011 07 04.07380	22 40 02.32	+03 26 33.1	12.0 N	945	C/2009 P1	2011 07 09.00325	22 32 44.73	+04 51 04.9	11.9 N	232
C/2009 P1	2011 07 04.09046	22 40 01.04	+03 26 49.0	12.0 N	J40	C/2009 P1	2011 07 09.00498	22 32 44.54	+04 51 06.8	11.9 N	232
C/2009 P1	2011 07 04.09215	22 40 00.81	+03 26 52.0	12.0 N	J40	C/2009 P1	2011 07 09.04532	22 32 40.53	+04 51 50.2	12.0 N	199
C/2009 P1	2011 07 04.09317	22 40 00.74	+03 26 53.0	12.0 N	J40	C/2009 P1	2011 07 09.04645	22 32 40.37	+04 51 51.3	11.9 N	939
C/2009 P1	2011 07 05.05340	22 38 41.95	+03 42 59.1	11.8 N	A77	C/2009 P1	2011 07 09.04972	22 32 40.04	+04 51 54.8	11.9 N	939
C/2009 P1	2011 07 05.05782	22 38 41.56	+03 43 03.3	11.8 N	A77	C/2009 P1	2011 07 09.05000	22 32 40.07	+04 51 55.2	11.9 N	199
C/2009 P1	2011 07 05.05871	22 38 41.50	+03 43 04.5	11.8 N	A77	C/2009 P1	2011 07 09.05234	22 32 39.84	+04 51 57.7	12.0 N	199
C/2009 P1	2011 07 05.34823	22 38 17.14	+03 47 57.9	13.6 N	H26	C/2009 P1	2011 07 09.05301	22 32 39.72	+04 51 58.2	11.8 N	939
C/2009 P1	2011 07 05.34850	22 38 17.13	+03 47 58.1	13.6 N	H26	C/2009 P1	2011 07 09.09103	22 32 36.07	+04 52 40.1	11.7 N	J24
C/2009 P1	2011 07 05.34877	22 38 17.08	+03 47 58.5	13.5 N	H26	C/2009 P1	2011 07 09.10806	22 32 34.34	+04 52 58.0	11.8 N	J24
C/2009 P1	2011 07 05.97976	22 37 23.16	+03 58 41.9	12.0 N	J31	C/2009 P1	2011 07 09.13208	22 32 31.95	+04 53 23.1	11.7 N	J24
C/2009 P1	2011 07 05.98347	22 37 22.83	+03 58 45.3	11.9 N	J31	C/2009 P1	2011 07 09.33801	22 32 11.71	+04 57 00.6	10.1 T	H45
C/2009 P1	2011 07 05.98722	22 37 22.51	+03 58 49.4	11.9 N	J31	C/2009 P1	2011 07 09.33920	22 32 11.60	+04 57 01.9	10.0 T	H45
C/2009 P1	2011 07 06.03155	22 37 18.63	+03 59 33.7	11.7 N	C09	C/2009 P1	2011 07 09.34438	22 32 11.08	+04 57 07.3	10.0 T	H45
C/2009 P1	2011 07 06.03579	22 37 18.24	+03 59 38.3	11.8 N	C09	C/2009 P1	2011 07 09.34707	22 32 10.80	+04 57 10.3	10.1 T	H45
C/2009 P1	2011 07 06.04003	22 37 17.86	+03 59 42.7	11.7 N	C09	C/2009 P1	2011 07 09.34815	22 32 10.70	+04 57 11.4	10.0 T	H45
C/2009 P1	2011 07 06.04428	22 37 17.48	+03 59 46.9	11.7 N	C09	C/2009 P1	2011 07 09.34920	22 32 10.59	+04 57 12.5	10.1 T	H45
C/2009 P1	2011 07 06.04926	22 37 17.05	+03 59 52.2	12.1 N	213	C/2009 P1	2011 07 09.73920	22 31 31.69	+05 04 07.5	9.8 T	KD88
C/2009 P1	2011 07 06.05152	22 37 16.85	+03 59 54.4	12.1 N	213	C/2009 P1	2011 07 09.74323	22 31 31.28	+05 04 11.9		KD88
C/2009 P1	2011 07 06.05155	22 37 16.78	+03 59 54.4	12.8 N	461	C/2009 P1	2011 07 09.98561	22 31 06.96	+05 08 29.6	12.1 N	235
C/2009 P1	2011 07 06.05272	22 37 16.68	+03 59 55.6	12.7 N	461	C/2009 P1	2011 07 09.99139	22 31 06.38	+05 08 35.8	12.0 N	235
C/2009 P1	2011 07 06.05375	22 37 16.65	+03 59 56.9	12.1 N	213	C/2009 P1	2011 07 09.99895	22 31 05.60	+05 08 43.6	12.3 N	235
C/2009 P1	2011 07 06.05389	22 37 16.58	+03 59 56.7	12.8 N	461	C/2009 P1	2011 07 10.00693	22 31 04.78	+05 08 53.6	12.1 N	B51
C/2009 P1	2011 07 06.05505	22 37 16.48	+03 59 57.9	13.0 N	461	C/2009 P1	2011 07 10.01209	22 31 04.32	+05 08 58.6	11.9 N	213
C/2009 P1	2011 07 06.05620	22 37 16.38	+03 59 59.1	12.8 N	461	C/2009 P1	2011 07 10.01354	22 31 04.15	+05 08 59.2	12.4 N	C23
C/2009 P1	2011 07 07.00794	22 35 51.94	+04 16 18.6	13.4 N	A71	C/2009 P1	2011 07 10.01515	22 31 04.03	+05 09 00.5	13.0 N	B96
C/2009 P1	2011 07 07.01088	22 35 51.68	+04 16 20.8	13.4 N	A71	C/2009 P1	2011 07 10.01714	22 31 03.85	+05 09 02.8	12.1 N	C23
C/2009 P1	2011 07 07.01382	22 35 51.52	+04 16 23.4	13.4 N	A71	C/2009 P1	2011 07 10.01970	22 31 03.57	+05 09 05.3	13.0 N	B96

C/2009 UG ₈₉	2011 06 23.95008	15 15 05.53	+41 38 50.4	17.6 N	K 958
C/2009 UG ₈₉	2011 06 23.96159	15 15 04.27	+41 38 45.9	17.8 N	K 958
C/2009 UG ₈₉	2011 06 23.97308	15 15 03.04	+41 38 41.7	17.5 N	K 958
C/2009 UG ₈₉	2011 06 24.95731	15 13 17.36	+41 32 45.5	17.8 N	K 958
C/2009 UG ₈₉	2011 06 24.96884	15 13 16.12	+41 32 39.6	17.6 N	K 958
C/2009 UG ₈₉	2011 06 24.98036	15 13 15.07	+41 32 35.0	17.6 N	K 958
C/2009 UG ₈₉	2011 06 25.94551	15 11 33.47	+41 26 30.5	17.5 N	K 958
C/2009 UG ₈₉	2011 06 25.95700	15 11 32.24	+41 26 26.0	17.7 N	K 958
C/2009 UG ₈₉	2011 06 25.96849	15 11 31.05	+41 26 21.0	17.7 N	K 958
C/2009 UG ₈₉	2011 06 26.91722	15 09 53.18	+41 20 09.9		C23
C/2009 UG ₈₉	2011 06 26.95441	15 09 49.20	+41 19 55.2	18.0 N	K 958
C/2009 UG ₈₉	2011 06 26.96559	15 09 48.03	+41 19 49.8		C23
C/2009 UG ₈₉	2011 06 26.96592	15 09 48.09	+41 19 51.2	17.9 N	K 958
C/2009 UG ₈₉	2011 06 26.96815	15 09 47.80	+41 19 48.7	17.4 N	939
C/2009 UG ₈₉	2011 06 26.96919	15 09 47.66	+41 19 49.5		C23
C/2009 UG ₈₉	2011 06 26.97278	15 09 47.33	+41 19 47.5		C23
C/2009 UG ₈₉	2011 06 26.97316	15 09 47.28	+41 19 47.0	17.4 N	939
C/2009 UG ₈₉	2011 06 26.97638	15 09 46.88	+41 19 45.2		C23
C/2009 UG ₈₉	2011 06 26.97745	15 09 46.67	+41 19 44.9	17.9 N	K 958
C/2009 UG ₈₉	2011 06 26.97818	15 09 46.79	+41 19 45.3	17.6 N	939
C/2009 UG ₈₉	2011 06 26.98509	15 09 46.03	+41 19 40.5		C23
C/2009 UG ₈₉	2011 06 26.98868	15 09 45.54	+41 19 40.6		C23
C/2009 UG ₈₉	2011 06 29.93433	15 04 53.08	+40 59 09.8	17.3 N	C23
C/2009 UG ₈₉	2011 06 29.93777	15 04 52.82	+40 59 09.5	18.0 N	K 958
C/2009 UG ₈₉	2011 06 29.94927	15 04 51.74	+40 59 04.5	17.9 N	K 958
C/2009 UG ₈₉	2011 06 29.95486	15 04 51.12	+40 59 01.2	17.5 N	C23
C/2009 UG ₈₉	2011 06 29.95839	15 04 50.73	+40 58 59.5	17.5 N	C23
C/2009 UG ₈₉	2011 06 29.96076	15 04 50.51	+40 58 58.0	17.4 N	K 958
C/2009 UG ₈₉	2011 06 29.96192	15 04 50.58	+40 58 55.9	17.5 N	C23
C/2009 UG ₈₉	2011 06 29.97438	15 04 49.26	+40 58 52.8	16.9 N	C23
C/2009 UG ₈₉	2011 07 01.90099	15 01 47.51	+40 44 31.3	17.7 N	J38
C/2009 UG ₈₉	2011 07 01.90291	15 01 47.40	+40 44 30.7	17.6 N	J38
C/2009 UG ₈₉	2011 07 01.90675	15 01 47.01	+40 44 29.6	17.6 N	J38
C/2009 UG ₈₉	2011 07 01.92604	15 01 44.99	+40 44 19.4	17.7 N	C23
C/2009 UG ₈₉	2011 07 02.01283	15 01 37.05	+40 43 38.9	17.3 N	C23
C/2009 UG ₈₉	2011 07 05.86388	14 55 56.84	+40 13 02.4	17.8 N	233
C/2009 UG ₈₉	2011 07 05.87454	14 55 56.02	+40 12 55.9	18.4 N	233
C/2009 UG ₈₉	2011 07 05.88656	14 55 54.95	+40 12 50.3	18.1 N	233
C/2009 UG ₈₉	2011 07 05.89381	14 55 54.34	+40 12 46.7	17.9 N	233
C/2009 UG ₈₉	2011 07 12.20409	14 47 40.87	+39 18 14.1		32H06
C/2009 UG ₈₉	2011 07 12.20651	14 47 40.71	+39 18 12.9		32H06
C/2009 UG ₈₉	2011 07 12.20892	14 47 40.55	+39 18 11.9	17.4 T	32H06

C/2009 Y1 (Catalina)

C/2009 Y1	2011 06 03.72118	23 56 07.12	+11 40 55.9	15.0 N	372
C/2009 Y1	2011 06 03.73594	23 56 07.36	+11 40 47.7		372
C/2009 Y1	2011 06 11.41345	23 57 47.20	+10 20 25.7	15.4 N	H10
C/2009 Y1	2011 06 11.41932	23 57 47.25	+10 20 21.7	15.3 N	H10
C/2009 Y1	2011 06 12.11093	23 57 53.11	+10 12 31.7	15.2 N	K 958
C/2009 Y1	2011 06 12.12246	23 57 53.16	+10 12 24.5	15.1 N	K 958
C/2009 Y1	2011 06 12.13396	23 57 53.23	+10 12 15.6	15.2 N	K 958
C/2009 Y1	2011 06 12.37550	23 57 55.18	+10 09 33.4	17.9 T	704
C/2009 Y1	2011 06 12.38576	23 57 55.33	+10 09 25.1	18.0 T	704

C/2009 Y1	2011 06 12.39602	23 57 55.33	+10 09 17.7	18.9 T	704
C/2009 Y1	2011 06 12.40646	23 57 55.54	+10 09 07.3	17.3 T	704
C/2009 Y1	2011 06 13.41226	23 58 02.74	+09 57 32.6	15.2 N	H47
C/2009 Y1	2011 06 13.41595	23 58 02.74	+09 57 30.0	15.3 N	H47
C/2009 Y1	2011 06 13.41903	23 58 02.77	+09 57 27.7	15.1 N	H47
C/2009 Y1	2011 06 13.42255	23 58 02.78	+09 57 25.6	15.4 N	H47
C/2009 Y1	2011 06 13.42381	23 58 02.74	+09 57 24.7	14.5 T	703
C/2009 Y1	2011 06 13.42589	23 58 02.82	+09 57 22.2	15.1 N	H47
C/2009 Y1	2011 06 13.43101	23 58 02.78	+09 57 20.0	14.4 T	703
C/2009 Y1	2011 06 13.43825	23 58 02.78	+09 57 15.5	14.3 T	703
C/2009 Y1	2011 06 13.44546	23 58 02.78	+09 57 10.6	14.3 T	703
C/2009 Y1	2011 06 14.40966	23 58 08.81	+09 45 48.0	15.8 N	H47
C/2009 Y1	2011 06 14.41367	23 58 08.84	+09 45 45.0	15.8 N	H47
C/2009 Y1	2011 06 14.41674	23 58 08.85	+09 45 42.8	15.6 N	H47
C/2009 Y1	2011 06 15.06192	23 58 11.93	+09 37 59.2	15.2 N	K 958
C/2009 Y1	2011 06 15.07874	23 58 12.23	+09 37 45.0	15.3 N	K 958
C/2009 Y1	2011 06 15.40493	23 58 13.76	+09 33 51.7	15.7 N	H10
C/2009 Y1	2011 06 15.40916	23 58 13.77	+09 33 48.0	15.7 N	H10
C/2009 Y1	2011 06 15.41341	23 58 13.78	+09 33 45.3	15.5 N	H10
C/2009 Y1	2011 06 15.43284	23 58 13.90	+09 33 30.9		32H06
C/2009 Y1	2011 06 15.43404	23 58 13.89	+09 33 29.9		32H06
C/2009 Y1	2011 06 15.43524	23 58 13.88	+09 33 29.1		32H06
C/2009 Y1	2011 06 15.43644	23 58 13.90	+09 33 28.5	14.0 T	32H06
C/2009 Y1	2011 06 17.05185	23 58 19.25	+09 13 35.8	15.9 N	K 958
C/2009 Y1	2011 06 17.06333	23 58 19.32	+09 13 24.6	15.6 N	K 958
C/2009 Y1	2011 06 17.07483	23 58 19.32	+09 13 17.7	15.8 N	K 958
C/2009 Y1	2011 06 20.09363	23 58 21.21	+08 34 26.5	15.7 N	K 958
C/2009 Y1	2011 06 20.10452	23 58 21.16	+08 34 17.3	15.8 N	K 958
C/2009 Y1	2011 06 20.11540	23 58 21.15	+08 34 09.9	15.8 N	K 958
C/2009 Y1	2011 06 21.10215	23 58 19.18	+08 20 57.2	15.6 N	K 958
C/2009 Y1	2011 06 21.11268	23 58 19.20	+08 20 47.2	15.4 N	K 958
C/2009 Y1	2011 06 21.12477	23 58 19.01	+08 20 38.0	15.6 N	K 958
C/2009 Y1	2011 06 24.17380	23 58 05.53	+07 38 16.0	15.4 N	J24
C/2009 Y1	2011 06 24.17673	23 58 05.52	+07 38 13.6	15.4 N	J24
C/2009 Y1	2011 06 24.18179	23 58 05.49	+07 38 08.9	14.5 N	J24
C/2009 Y1	2011 06 25.08518	23 57 59.16	+07 25 05.6	15.2 N	I99
C/2009 Y1	2011 06 25.08797	23 57 59.10	+07 25 04.1	15.7 N	K 958
C/2009 Y1	2011 06 25.09092	23 57 59.12	+07 25 01.7	15.4 N	I99
C/2009 Y1	2011 06 25.09475	23 57 59.03	+07 24 57.7	15.2 N	I99
C/2009 Y1	2011 06 25.09875	23 57 59.01	+07 24 54.7	15.6 N	K 958
C/2009 Y1	2011 06 25.11016	23 57 58.80	+07 24 44.4	15.7 N	K 958
C/2009 Y1	2011 06 26.38344	23 57 48.10	+07 05 58.6	15.7 N	H10
C/2009 Y1	2011 06 26.38689	23 57 48.07	+07 05 55.6		H10
C/2009 Y1	2011 06 26.39060	23 57 48.02	+07 05 52.2	14.3 T	H10
C/2009 Y1	2011 06 27.07220	23 57 41.15	+06 55 37.9	15.4 N	K 958
C/2009 Y1	2011 06 27.08392	23 57 41.08	+06 55 26.5	15.1 N	K 958
C/2009 Y1	2011 06 27.09521	23 57 41.02	+06 55 16.7	15.3 N	K 958
C/2009 Y1	2011 06 27.38328	23 57 38.03	+06 50 55.3	16.1 N	KH47
C/2009 Y1	2011 06 27.38985	23 57 37.94	+06 50 49.4	16.0 N	KH47
C/2009 Y1	2011 06 27.39781	23 57 37.85	+06 50 42.1	16.0 N	KH47
C/2009 Y1	2011 06 30.39555	23 56 59.44	+06 03 49.1	15.9 N	H47
C/2009 Y1	2011 06 30.39803	23 56 59.38	+06 03 46.7	16.0 N	H47
C/2009 Y1	2011 07 01.07496	23 56 49.02	+05 52 48.6	15.7 N	K 958

C/2009 Y1	2011 07 01.08549	23 56 48.74	+05 52 37.9	15.7 N	K 958
C/2009 Y1	2011 07 01.09673	23 56 48.57	+05 52 27.4	15.5 N	K 958
C/2009 Y1	2011 07 01.38658	23 56 43.99	+05 47 44.4		32H06
C/2009 Y1	2011 07 01.38943	23 56 43.94	+05 47 41.6		32H06
C/2009 Y1	2011 07 01.39228	23 56 43.90	+05 47 38.9	13.8 T	32H06
C/2009 Y1	2011 07 05.08397	23 55 33.83	+04 45 04.3	15.2 N	A77
C/2009 Y1	2011 07 05.08708	23 55 33.75	+04 45 01.1	15.2 N	A77
C/2009 Y1	2011 07 05.09018	23 55 33.68	+04 44 57.7	15.2 N	A77
C/2009 Y1	2011 07 09.08216	23 53 55.43	+03 32 32.2	15.4 N	939
C/2009 Y1	2011 07 09.08683	23 53 55.30	+03 32 27.5	15.3 N	939
C/2009 Y1	2011 07 09.09149	23 53 55.17	+03 32 22.4	15.3 N	939
C/2009 Y1	2011 07 10.12686	23 53 25.69	+03 12 44.7	15.5 N	232
C/2009 Y1	2011 07 10.13080	23 53 25.57	+03 12 40.2	15.5 N	232
C/2009 Y1	2011 07 10.13472	23 53 25.45	+03 12 35.6	15.5 N	232
C/2009 Y1	2011 07 10.70843	23 53 08.52	+03 01 34.4	14.8 T	D95
C/2009 Y1	2011 07 10.71271	23 53 08.40	+03 01 29.7		D95
C/2009 Y1	2011 07 10.71698	23 53 08.24	+03 01 25.2		D95

C/2010 A4 (Siding Spring)

C/2010 A4	2011 07 07.44425	01 02 30.11	-20 14 07.9		32H06
C/2010 A4	2011 07 07.44726	01 02 29.99	-20 14 07.7		32H06
C/2010 A4	2011 07 07.45027	01 02 29.87	-20 14 07.5	19.6 T	32H06

C/2010 B1 (Cardinal)

C/2010 B1	2011 04 29.97081	04 47 44.28	-19 31 30.8	17.5 N	I40
C/2010 B1	2011 04 29.97238	04 47 44.32	-19 31 31.4	16.7 N	I40
C/2010 B1	2011 04 29.97388	04 47 44.38	-19 31 31.9	16.3 N	I40
C/2010 B1	2011 04 29.97538	04 47 44.43	-19 31 32.2	15.9 N	I40
C/2010 B1	2011 04 29.97690	04 47 44.49	-19 31 32.8	17.5 N	I40
C/2010 B1	2011 04 29.97840	04 47 44.56	-19 31 33.2	16.7 N	I40

C/2010 FB₈₇ (WISE-Garradd)

C/2010 FB ₈₇	2011 05 17.96151	06 10 57.48	-12 43 10.7	16.4 N	I40
C/2010 FB ₈₇	2011 05 17.96300	06 10 57.55	-12 43 09.3	16.0 N	I40
C/2010 FB ₈₇	2011 05 17.96461	06 10 57.62	-12 43 07.9	15.6 N	I40
C/2010 FB ₈₇	2011 05 17.96773	06 10 57.74	-12 43 05.3	16.4 N	I40
C/2010 FB ₈₇	2011 05 17.96923	06 10 57.80	-12 43 04.0	16.1 N	I40
C/2010 FB ₈₇	2011 05 17.97085	06 10 57.86	-12 43 02.7	15.7 N	I40
C/2010 FB ₈₇	2011 05 17.97257	06 10 57.95	-12 43 01.3	16.9 N	I40
C/2010 FB ₈₇	2011 05 17.97415	06 10 58.00	-12 42 59.8	16.4 N	I40
C/2010 FB ₈₇	2011 05 17.97564	06 10 58.06	-12 42 58.7	16.1 N	I40
C/2010 FB ₈₇	2011 05 17.97725	06 10 58.13	-12 42 57.2	15.7 N	I40
C/2010 FB ₈₇	2011 05 17.98038	06 10 58.28	-12 42 54.6	16.4 N	I40
C/2010 FB ₈₇	2011 05 17.98187	06 10 58.32	-12 42 53.4	16.1 N	I40
C/2010 FB ₈₇	2011 05 17.98348	06 10 58.38	-12 42 51.9	15.7 N	I40
C/2010 FB ₈₇	2011 05 17.98581	06 10 58.48	-12 42 50.2	17.1 N	I40

C/2010 G2 (Hill)

C/2010 G2	2011 06 04.62854	06 49 44.09	+79 59 13.5	14.7 T	349
C/2010 G2	2011 06 04.63473	06 49 44.87	+79 59 03.2		349
C/2010 G2	2011 06 04.64091	06 49 45.82	+79 58 53.4		349
C/2010 G2	2011 06 15.90690	07 10 10.77	+75 18 42.4		C23
C/2010 G2	2011 06 15.91050	07 10 11.01	+75 18 37.2		C23
C/2010 G2	2011 06 15.92129	07 10 12.05	+75 18 21.2		C23
C/2010 G2	2011 06 15.92953	07 10 12.73	+75 18 09.7		C23

C/2010 G2	2011 06 15.94088	07 10 13.64	+75 17 53.9		C23
C/2010 G2	2011 06 15.94448	07 10 14.15	+75 17 50.0		C23
C/2010 G2	2011 06 17.00354	07 11 43.77	+74 53 12.4	16.3 N	B96
C/2010 G2	2011 06 17.00808	07 11 44.13	+74 53 07.0	16.4 N	B96
C/2010 G2	2011 06 17.01259	07 11 44.39	+74 53 00.5	16.4 N	B96
C/2010 G2	2011 06 17.01711	07 11 44.90	+74 52 54.0	16.3 N	B96
C/2010 G2	2011 06 17.02163	07 11 45.26	+74 52 47.9	16.3 N	B96
C/2010 G2	2011 06 17.02617	07 11 45.69	+74 52 42.1	16.4 N	B96
C/2010 G2	2011 06 19.52858	07 15 06.12	+73 55 46.6	14.5 T	D95
C/2010 G2	2011 06 19.53076	07 15 06.27	+73 55 43.4		D95
C/2010 G2	2011 06 19.53296	07 15 06.44	+73 55 40.6		D95
C/2010 G2	2011 06 19.97325	07 15 40.68	+73 45 48.9	15.9 N	A71
C/2010 G2	2011 06 19.97602	07 15 40.93	+73 45 45.7	15.4 N	A71
C/2010 G2	2011 06 19.97878	07 15 41.04	+73 45 41.3	16.0 N	A71
C/2010 G2	2011 06 19.98156	07 15 41.38	+73 45 37.7	15.7 N	A71
C/2010 G2	2011 06 19.98433	07 15 41.44	+73 45 34.5	16.0 N	A71
C/2010 G2	2011 06 19.98709	07 15 41.78	+73 45 30.6	15.8 N	A71
C/2010 G2	2011 06 19.98983	07 15 41.82	+73 45 26.4	16.0 N	A71
C/2010 G2	2011 06 20.00269	07 15 42.85	+73 45 09.2	15.6 N	945
C/2010 G2	2011 06 20.00839	07 15 43.29	+73 45 00.0	15.6 N	945
C/2010 G2	2011 06 20.01025	07 15 43.57	+73 44 59.1	15.6 N	945
C/2010 G2	2011 06 20.01219	07 15 43.79	+73 44 56.8	15.5 N	945
C/2010 G2	2011 06 20.01419	07 15 43.77	+73 44 55.0	15.6 N	945
C/2010 G2	2011 06 21.93280	07 18 06.96	+73 02 35.2	16.0 N	A71
C/2010 G2	2011 06 21.93568	07 18 07.38	+73 02 33.0	16.1 N	A71
C/2010 G2	2011 06 21.93856	07 18 07.44	+73 02 26.8	15.8 N	A71
C/2010 G2	2011 06 21.95616	07 18 08.73	+73 02 05.1	15.7 N	A71
C/2010 G2	2011 06 25.06420	07 21 47.31	+71 55 26.0	15.2 N	945
C/2010 G2	2011 06 25.06787	07 21 47.67	+71 55 21.7	15.2 N	945
C/2010 G2	2011 06 25.07050	07 21 47.61	+71 55 18.6	15.1 N	945
C/2010 G2	2011 06 25.07863	07 21 48.16	+71 55 07.7	15.1 N	945
C/2010 G2	2011 06 25.08252	07 21 48.45	+71 55 03.3	15.1 N	945
C/2010 G2	2011 06 26.03157	07 22 52.30	+71 35 10.9	15.4 N	945
C/2010 G2	2011 06 26.03506	07 22 52.67	+71 35 07.3	15.3 T	945
C/2010 G2	2011 06 26.03939	07 22 52.68	+71 35 01.1		945
C/2010 G2	2011 06 26.04170	07 22 52.89	+71 34 58.2	15.4 N	945
C/2010 G2	2011 06 26.04361	07 22 53.18	+71 34 56.3	15.3 N	945
C/2010 G2	2011 06 27.924799	07 24 55.45	+70 56 13.5	15.6 N	K 510
C/2010 G2	2011 06 27.933051	07 24 55.87	+70 56 03.6	15.4 N	K 510
C/2010 G2	2011 06 27.941696	07 24 56.50	+70 55 52.7	15.5 N	K 510
C/2010 G2	2011 06 27.949949	07 24 57.09	+70 55 43.0	15.7 N	K 510
C/2010 G2	2011 06 29.52791	07 26 36.14	+70 23 52.3	16.7 N	D95
C/2010 G2	2011 06 29.52935	07 26 36.05	+70 23 51.4	16.1 N	D95
C/2010 G2	2011 06 29.53080	07 26 36.15	+70 23 49.6	16.6 N	D95
C/2010 G2	2011 06 29.53225	07 26 36.28	+70 23 47.6	15.5 N	D95
C/2010 G2	2011 07 03.97144	07 30 59.78	+68 57 18.1	15.2 N	945
C/2010 G2	2011 07 04.01647	07 31 02.60	+68 56 27.6	15.3 T	945
C/2010 G2	2011 07 04.01868	07 31 02.74	+68 56 25.4		945
C/2010 G2	2011 07 04.02152	07 31 02.81	+68 56 22.8	15.3 N	945
C/2010 G2	2011 07 04.02869	07 31 03.46	+68 56 13.4	15.3 N	945
C/2010 G2	2011 07 05.50725	07 32 25.65	+68 28 28.1		K 367
C/2010 G2	2011 07 05.51159	07 32 25.93	+68 28 23.3	13.4 T	K 367

C/2010 L3 (Catalina)
 C/2010 L3 2011 06 20.93160 15 55 04.80 +31 24 47.2 19.4 N K 204
 C/2010 L3 2011 06 21.00659 15 55 02.37 +31 24 29.1 K 204

C/2010 R1 (LINEAR)
 C/2010 R1 2011 05 28.35397 17 56 05.47 +03 10 02.3 17.3 N K 850
 C/2010 R1 2011 05 28.36892 17 56 04.45 +03 10 05.6 19.0 N K 850
 C/2010 R1 2011 06 07.00625 17 45 27.31 +03 33 43.5 17.3 N 585
 C/2010 R1 2011 06 07.00834 17 45 27.22 +03 33 43.9 17.4 N 585
 C/2010 R1 2011 06 07.01047 17 45 27.05 +03 33 44.2 17.4 N 585
 C/2010 R1 2011 06 07.01258 17 45 26.87 +03 33 44.6 17.4 N 585
 C/2010 R1 2011 06 07.01466 17 45 26.73 +03 33 45.1 17.6 N 585
 C/2010 R1 2011 06 07.02096 17 45 26.38 +03 33 45.9 17.3 N 585
 C/2010 R1 2011 06 07.97895 17 44 21.14 +03 35 42.4 17.6 N 585
 C/2010 R1 2011 06 07.98314 17 44 20.88 +03 35 42.8 17.6 N 585
 C/2010 R1 2011 06 08.00201 17 44 19.61 +03 35 45.4 17.3 N 585
 C/2010 R1 2011 06 08.01043 17 44 18.96 +03 35 45.8 17.7 N 585
 C/2010 R1 2011 06 08.01463 17 44 18.75 +03 35 46.5 17.7 N 585
 C/2010 R1 2011 06 08.01672 17 44 18.61 +03 35 46.8 17.7 N 585
 C/2010 R1 2011 06 18.10718 17 32 41.07 +03 51 21.6 17.6 N J24
 C/2010 R1 2011 06 18.12479 17 32 39.82 +03 51 23.1 17.5 N J24
 C/2010 R1 2011 06 19.02069 17 31 37.46 +03 52 18.9 17.5 N K 204
 C/2010 R1 2011 06 19.06790 17 31 34.15 +03 52 21.9 K 204
 C/2010 R1 2011 06 19.98918 17 30 30.03 +03 53 14.6 K 118
 C/2010 R1 2011 06 19.99739 17 30 29.44 +03 53 14.8 K 118
 C/2010 R1 2011 06 20.00642 17 30 28.76 +03 53 14.9 K 118
 C/2010 R1 2011 06 24.03224 17 25 49.27 +03 56 15.9 17.5 N K 958
 C/2010 R1 2011 06 24.04390 17 25 48.30 +03 56 14.1 17.7 N K 958
 C/2010 R1 2011 06 24.05539 17 25 47.61 +03 56 13.9 17.9 N K 958
 C/2010 R1 2011 06 24.10136 17 25 44.30 +03 56 16.5 17.5 N J24
 C/2010 R1 2011 06 24.10723 17 25 43.87 +03 56 17.0 17.6 N J24
 C/2010 R1 2011 06 24.11163 17 25 43.57 +03 56 17.2 17.7 N J24
 C/2010 R1 2011 06 24.92451 17 24 47.40 +03 56 40.6 18.2 N A71
 C/2010 R1 2011 06 24.92769 17 24 47.23 +03 56 40.7 17.7 N A71
 C/2010 R1 2011 06 24.93087 17 24 47.05 +03 56 40.9 18.2 N A71
 C/2010 R1 2011 06 24.93404 17 24 46.77 +03 56 41.0 18.1 N A71
 C/2010 R1 2011 06 25.02987 17 24 40.07 +03 56 43.6 17.9 N K 958
 C/2010 R1 2011 06 25.04100 17 24 39.38 +03 56 43.9 17.5 N K 958
 C/2010 R1 2011 06 25.05287 17 24 38.55 +03 56 44.5 17.8 N K 958
 C/2010 R1 2011 06 26.94250 17 22 28.30 +03 57 25.6 K 203
 C/2010 R1 2011 06 26.97063 17 22 26.33 +03 57 26.3 K 203
 C/2010 R1 2011 06 27.02064 17 22 22.81 +03 57 27.8 17.7 N K 958
 C/2010 R1 2011 06 27.03174 17 22 22.06 +03 57 30.2 17.7 N K 958
 C/2010 R1 2011 06 27.27796 17 22 05.50 +03 57 31.8 17.9 T 704
 C/2010 R1 2011 06 27.28931 17 22 04.51 +03 57 31.2 18.2 T 704
 C/2010 R1 2011 06 27.30053 17 22 03.71 +03 57 31.9 18.3 T 704
 C/2010 R1 2011 06 27.31119 17 22 02.97 +03 57 31.6 18.2 T 704
 C/2010 R1 2011 06 27.96682 17 21 18.00 +03 57 39.8 17.9 T K 215
 C/2010 R1 2011 06 27.96787 17 21 17.92 +03 57 39.8 18.0 T K 215
 C/2010 R1 2011 06 27.96893 17 21 17.83 +03 57 39.7 17.8 T K 215
 C/2010 R1 2011 06 29.16292 17 19 56.29 +03 57 49.6 18.1 T 704
 C/2010 R1 2011 06 29.19354 17 19 54.22 +03 57 50.0 18.1 T 704
 C/2010 R1 2011 06 29.20371 17 19 53.50 +03 57 50.0 18.1 T 704

C/2010 R1 2011 06 29.239231 17 19 50.99 +03 57 49.6 18.4 T KH21
 C/2010 R1 2011 06 29.243894 17 19 50.67 +03 57 49.6 18.4 T KH21
 C/2010 R1 2011 06 29.248535 17 19 50.35 +03 57 49.6 18.3 T KH21
 C/2010 R1 2011 06 29.30488 17 19 46.47 +03 57 50.3 18.2 N H10
 C/2010 R1 2011 06 29.30990 17 19 46.16 +03 57 50.1 18.1 N H10
 C/2010 R1 2011 06 29.31490 17 19 45.82 +03 57 50.1 18.0 N H10
 C/2010 R1 2011 06 29.31998 17 19 45.46 +03 57 50.1 18.2 N H10
 C/2010 R1 2011 06 29.32494 17 19 45.17 +03 57 50.2 18.2 N H10
 C/2010 R1 2011 06 29.33002 17 19 44.81 +03 57 50.7 18.1 N H10
 C/2010 R1 2011 06 29.99860 17 18 59.36 +03 57 51.1 17.5 N K 958
 C/2010 R1 2011 06 30.01041 17 18 58.65 +03 57 51.1 17.9 N K 958
 C/2010 R1 2011 06 30.02034 17 18 58.07 +03 57 49.4 17.0 N K 958
 C/2010 R1 2011 07 01.00312 17 17 51.37 +03 57 48.5 17.7 N K 958
 C/2010 R1 2011 07 01.01414 17 17 50.37 +03 57 48.2 18.0 N K 958
 C/2010 R1 2011 07 01.02556 17 17 49.63 +03 57 47.2 17.9 N K 958
 C/2010 R1 2011 07 01.98071 17 16 45.20 +03 57 39.7 17.8 N B54
 C/2010 R1 2011 07 01.98539 17 16 44.88 +03 57 39.8 17.8 N B54
 C/2010 R1 2011 07 01.99948 17 16 43.90 +03 57 39.3 17.8 N B54
 C/2010 R1 2011 07 02.03182 17 16 41.67 +03 57 38.5 17.9 N J38
 C/2010 R1 2011 07 02.03688 17 16 41.40 +03 57 38.7 17.7 N J38
 C/2010 R1 2011 07 02.03942 17 16 41.31 +03 57 38.5 17.9 N J38
 C/2010 R1 2011 07 02.09917 17 16 37.17 +03 57 39.3 17.4 N J24
 C/2010 R1 2011 07 02.10799 17 16 36.57 +03 57 38.9 17.3 N J24
 C/2010 R1 2011 07 02.11826 17 16 35.86 +03 57 38.8 17.5 N J24
 C/2010 R1 2011 07 02.94881 17 15 40.20 +03 57 26.6 17.9 N K C10
 C/2010 R1 2011 07 02.95935 17 15 39.50 +03 57 26.0 18.1 N K C10
 C/2010 R1 2011 07 02.97372 17 15 38.52 +03 57 26.3 18.0 N B96
 C/2010 R1 2011 07 02.97811 17 15 38.19 +03 57 26.0 18.2 N B96
 C/2010 R1 2011 07 02.98263 17 15 37.87 +03 57 26.3 18.1 N B96
 C/2010 R1 2011 07 02.98714 17 15 37.53 +03 57 25.3 18.4 N B96
 C/2010 R1 2011 07 02.99166 17 15 37.27 +03 57 25.9 17.4 N B96
 C/2010 R1 2011 07 03.92601 17 14 34.93 +03 57 08.0 17.7 N B51
 C/2010 R1 2011 07 03.94640 17 14 33.50 +03 57 07.4 17.6 N B51
 C/2010 R1 2011 07 05.90921 17 12 23.64 +03 56 16.4 17.8 N B51
 C/2010 R1 2011 07 05.91912 17 12 22.95 +03 56 15.0 18.0 N B51
 C/2010 R1 2011 07 06.90315 17 11 18.38 +03 55 40.5 17.3 N KA77
 C/2010 R1 2011 07 06.92163 17 11 17.20 +03 55 39.4 17.1 N KA77
 C/2010 R1 2011 07 07.91934 17 10 12.27 +03 55 00.7 18.0 N J01
 C/2010 R1 2011 07 07.93216 17 10 11.39 +03 54 59.9 17.1 N J01
 C/2010 R1 2011 07 07.93675 17 10 11.11 +03 54 59.6 17.5 N J01

C/2010 S1 (LINEAR)

C/2010 S1 2011 06 21.97138 02 06 37.01 +58 15 13.1 16.3 N A71
 C/2010 S1 2011 06 21.97461 02 06 37.04 +58 15 14.2 16.3 N A71
 C/2010 S1 2011 06 21.97784 02 06 37.06 +58 15 15.2 16.3 N A71
 C/2010 S1 2011 06 21.98106 02 06 37.07 +58 15 16.6 16.3 N A71
 C/2010 S1 2011 06 21.98478 02 06 37.09 +58 15 17.5 16.3 N A71
 C/2010 S1 2011 06 21.99146 02 06 37.13 +58 15 20.1 16.0 N A71
 C/2010 S1 2011 06 24.10698 02 06 47.63 +58 27 31.6 15.7 N K 958
 C/2010 S1 2011 06 24.11845 02 06 47.76 +58 27 35.8 15.9 N K 958
 C/2010 S1 2011 06 24.12992 02 06 47.80 +58 27 40.6 15.8 N K 958
 C/2010 S1 2011 06 25.11117 02 06 51.59 +58 33 23.9 15.8 N K 958
 C/2010 S1 2011 06 25.12265 02 06 51.63 +58 33 28.0 15.6 N K 958

C/2010 S1	2011 06 25.13414	02 06 51.62	+58 33 31.7	15.5 N	K 958
C/2010 S1	2011 06 25.41291	02 06 52.65	+58 35 10.2		H10
C/2010 S1	2011 06 25.41380	02 06 52.66	+58 35 10.6		H10
C/2010 S1	2011 06 25.41469	02 06 52.67	+58 35 10.9	15.4 T	H10
C/2010 S1	2011 06 26.07595	02 06 54.77	+58 39 02.5	15.9 N	K 958
C/2010 S1	2011 06 26.08334	02 06 54.69	+58 39 04.9	16.2 N	K 958
C/2010 S1	2011 06 26.40818	02 06 55.67	+58 41 01.4		H10
C/2010 S1	2011 06 26.40924	02 06 55.64	+58 41 01.7		H10
C/2010 S1	2011 06 26.41030	02 06 55.61	+58 41 02.1	15.5 T	H10
C/2010 S1	2011 06 26.94392	02 06 56.92	+58 44 10.3	16.1 N	A71
C/2010 S1	2011 06 26.94605	02 06 56.93	+58 44 10.9	16.1 N	A71
C/2010 S1	2011 06 26.95032	02 06 56.93	+58 44 12.5	16.2 N	A71
C/2010 S1	2011 06 26.95245	02 06 56.95	+58 44 13.2	16.2 N	A71
C/2010 S1	2011 06 26.95459	02 06 56.95	+58 44 14.0	16.1 N	A71
C/2010 S1	2011 06 27.37013	02 06 57.81	+58 46 42.5	15.5 N	H10
C/2010 S1	2011 06 27.37116	02 06 57.82	+58 46 42.9	15.7 N	H10
C/2010 S1	2011 06 27.37214	02 06 57.81	+58 46 43.1	15.7 N	H10

C/2010 U3 (Boattini)

C/2010 U3	2011 07 09.42994	02 49 59.37	+13 33 12.8		32H06
C/2010 U3	2011 07 09.43374	02 49 59.39	+13 33 13.3	18.8 T	32H06

C/2010 X1 (Elenin)

C/2010 X1	2011 05 02.03327	10 37 12.19	+07 07 54.7	17.9 N	I40
C/2010 X1	2011 05 02.03553	10 37 12.07	+07 07 55.2	17.3 N	I40
C/2010 X1	2011 05 02.03772	10 37 11.97	+07 07 55.7	16.9 N	I40
C/2010 X1	2011 05 02.03993	10 37 11.88	+07 07 56.4	17.9 N	I40
C/2010 X1	2011 05 02.04212	10 37 11.77	+07 07 56.9	17.2 N	I40
C/2010 X1	2011 05 02.04431	10 37 11.65	+07 07 57.6	16.9 N	I40
C/2010 X1	2011 05 02.04652	10 37 11.56	+07 07 58.4	17.9 N	I40
C/2010 X1	2011 05 02.04871	10 37 11.44	+07 07 58.8	17.2 N	I40
C/2010 X1	2011 05 09.96827	10 31 55.57	+07 40 40.8	17.9 N	I40
C/2010 X1	2011 05 09.96984	10 31 55.54	+07 40 41.1	17.3 N	I40
C/2010 X1	2011 05 09.97133	10 31 55.47	+07 40 41.5	16.9 N	I40
C/2010 X1	2011 05 09.97286	10 31 55.42	+07 40 41.7	16.5 N	I40
C/2010 X1	2011 05 09.97437	10 31 55.36	+07 40 42.4	17.8 N	I40
C/2010 X1	2011 05 09.97587	10 31 55.31	+07 40 42.4	17.4 N	I40
C/2010 X1	2011 05 09.97737	10 31 55.27	+07 40 42.7	16.9 N	I40
C/2010 X1	2011 05 09.97886	10 31 55.23	+07 40 42.9	16.4 N	I40
C/2010 X1	2011 05 09.98037	10 31 55.16	+07 40 43.4	17.9 N	I40
C/2010 X1	2011 05 09.98186	10 31 55.10	+07 40 43.5	17.3 N	I40
C/2010 X1	2011 05 09.98336	10 31 55.06	+07 40 43.7	17.0 N	I40
C/2010 X1	2011 05 09.98485	10 31 55.02	+07 40 44.1	16.5 N	I40
C/2010 X1	2011 05 13.98828	10 29 58.07	+07 53 04.3	17.8 N	I40
C/2010 X1	2011 05 13.98973	10 29 58.01	+07 53 04.2	17.4 N	I40
C/2010 X1	2011 05 13.99100	10 29 57.98	+07 53 04.3	16.5 N	I40
C/2010 X1	2011 05 13.99399	10 29 57.90	+07 53 05.1	16.9 N	I40
C/2010 X1	2011 05 13.99532	10 29 57.85	+07 53 05.3	16.9 N	I40
C/2010 X1	2011 05 13.99658	10 29 57.84	+07 53 05.2	16.9 N	I40
C/2010 X1	2011 05 13.99793	10 29 57.79	+07 53 05.8	17.0 N	I40
C/2010 X1	2011 05 13.99928	10 29 57.77	+07 53 05.9	17.0 N	I40
C/2010 X1	2011 05 14.00054	10 29 57.74	+07 53 05.9	16.9 N	I40
C/2010 X1	2011 05 14.00179	10 29 57.69	+07 53 06.2	16.9 N	I40
C/2010 X1	2011 05 14.00305	10 29 57.65	+07 53 06.6	17.0 N	I40

C/2010 X1	2011 05 14.00430	10 29 57.62	+07 53 06.9	16.9 N	I40
C/2010 X1	2011 05 14.00556	10 29 57.57	+07 53 07.1	16.9 N	I40
C/2010 X1	2011 05 18.01862	10 28 29.74	+08 02 36.4	17.2 N	I40
C/2010 X1	2011 05 18.02012	10 28 29.73	+08 02 36.9	16.9 N	I40
C/2010 X1	2011 05 18.02161	10 28 29.68	+08 02 36.8	16.5 N	I40
C/2010 X1	2011 05 18.02461	10 28 29.62	+08 02 37.4	17.3 N	I40
C/2010 X1	2011 05 18.02610	10 28 29.59	+08 02 37.5	16.9 N	I40
C/2010 X1	2011 05 18.02760	10 28 29.57	+08 02 37.5	16.5 N	I40
C/2010 X1	2011 05 18.02911	10 28 29.56	+08 02 37.8	17.7 N	I40
C/2010 X1	2011 05 18.03060	10 28 29.51	+08 02 37.7	17.2 N	I40
C/2010 X1	2011 05 18.03209	10 28 29.47	+08 02 38.1	16.9 N	I40
C/2010 X1	2011 05 18.03359	10 28 29.46	+08 02 38.2	16.5 N	I40
C/2010 X1	2011 05 18.03510	10 28 29.42	+08 02 38.5	17.7 N	I40
C/2010 X1	2011 05 18.03659	10 28 29.39	+08 02 38.9	17.2 N	I40
C/2010 X1	2011 05 18.03808	10 28 29.36	+08 02 39.0	16.9 N	I40
C/2010 X1	2011 05 18.03957	10 28 29.33	+08 02 38.8	16.5 N	I40
C/2010 X1	2011 05 18.04112	10 28 29.29	+08 02 39.1	18.0 N	I40
C/2010 X1	2011 05 20.05145	10 27 56.43	+08 06 19.6	17.9 N	I40
C/2010 X1	2011 05 20.05301	10 27 56.38	+08 06 19.8	17.3 N	I40
C/2010 X1	2011 05 20.05451	10 27 56.37	+08 06 20.4	17.0 N	I40
C/2010 X1	2011 05 20.05600	10 27 56.35	+08 06 20.3	16.5 N	I40
C/2010 X1	2011 05 20.06050	10 27 56.28	+08 06 20.8	17.0 N	I40
C/2010 X1	2011 05 20.06199	10 27 56.25	+08 06 20.8	16.6 N	I40
C/2010 X1	2011 05 20.06350	10 27 56.23	+08 06 21.2	17.9 N	I40
C/2010 X1	2011 05 20.06499	10 27 56.20	+08 06 21.1	17.2 N	I40
C/2010 X1	2011 05 20.06648	10 27 56.20	+08 06 21.6	17.0 N	I40
C/2010 X1	2011 05 20.06797	10 27 56.16	+08 06 21.2	16.5 N	I40
C/2010 X1	2011 05 20.06949	10 27 56.14	+08 06 21.8	17.9 N	I40
C/2010 X1	2011 05 20.07098	10 27 56.13	+08 06 21.6	17.3 N	I40
C/2010 X1	2011 05 20.07247	10 27 56.08	+08 06 21.9	17.0 N	I40
C/2010 X1	2011 05 20.07397	10 27 56.08	+08 06 22.0	16.5 N	I40
C/2010 X1	2011 05 20.07697	10 27 56.02	+08 06 22.2	17.3 N	I40
C/2010 X1	2011 06 08.87026	10 29 02.83	+08 04 29.3	17.2 N	K 958
C/2010 X1	2011 06 08.88174	10 29 03.05	+08 04 26.7	17.0 N	K 958
C/2010 X1	2011 06 08.89322	10 29 03.54	+08 04 24.4	16.9 N	K 958
C/2010 X1	2011 06 11.98616	10 30 15.94	+07 58 09.0	16.8 N	I40
C/2010 X1	2011 06 11.98732	10 30 15.97	+07 58 09.0	16.7 N	I40
C/2010 X1	2011 06 11.98850	10 30 16.00	+07 58 08.6	16.3 N	I40
C/2010 X1	2011 06 11.98966	10 30 16.03	+07 58 08.4	17.4 N	I40
C/2010 X1	2011 06 11.99081	10 30 16.07	+07 58 08.4	16.9 N	I40
C/2010 X1	2011 06 11.99195	10 30 16.07	+07 58 08.2	16.7 N	I40
C/2010 X1	2011 06 11.99309	10 30 16.12	+07 58 08.3	16.8 N	I40
C/2010 X1	2011 06 11.99424	10 30 16.13	+07 58 07.6	16.3 N	I40
C/2010 X1	2011 06 13.87515	10 31 08.21	+07 53 20.4	16.1 N	KA77
C/2010 X1	2011 06 13.87980	10 31 08.32	+07 53 20.2	16.1 N	KA77
C/2010 X1	2011 06 13.88444	10 31 08.48	+07 53 18.6	16.0 N	KA77
C/2010 X1	2011 06 14.40792	10 31 24.27	+07 52 00.1	17.0 N	D96
C/2010 X1	2011 06 14.41792	10 31 24.24	+07 52 00.2	16.8 N	D96
C/2010 X1	2011 06 14.42789	10 31 24.49	+07 51 58.8	16.9 N	D96
C/2010 X1	2011 06 17.90955	10 33 19.26	+07 41 20.4	15.8 N	J24
C/2010 X1	2011 06 17.91819	10 33 19.56	+07 41 19.5	15.7 N	J24
C/2010 X1	2011 06 17.92469	10 33 19.81	+07 41 17.5	15.8 N	J24
C/2010 X1	2011 06 18.16668	10 33 28.47	+07 40 28.9		32H06

C/2011 A3	2011 06 14.92481	13 09 27.11	+24 42 40.8	16.0 N	585	C/2011 A3	2011 06 20.86233	13 11 12.80	+23 49 17.2	16.3 N	J97
C/2011 A3	2011 06 14.92773	13 09 27.16	+24 42 38.8	16.0 N	585	C/2011 A3	2011 06 20.86734	13 11 12.88	+23 49 14.3	16.3 N	J97
C/2011 A3	2011 06 14.92878	13 09 27.04	+24 42 38.5	16.7 N	K 958	C/2011 A3	2011 06 20.87069	13 11 12.95	+23 49 11.9	16.3 N	J97
C/2011 A3	2011 06 14.93080	13 09 27.18	+24 42 37.8	16.1 N	585	C/2011 A3	2011 06 20.96007	13 11 14.81	+23 48 21.5	16.6 N	K 958
C/2011 A3	2011 06 14.93226	13 09 27.23	+24 42 36.8	16.0 N	585	C/2011 A3	2011 06 20.99133	13 11 15.41	+23 48 03.1	16.6 N	K 958
C/2011 A3	2011 06 14.93510	13 09 27.24	+24 42 35.2	16.1 N	585	C/2011 A3	2011 06 21.00221	13 11 15.74	+23 47 56.7	16.6 N	K 958
C/2011 A3	2011 06 14.93792	13 09 27.29	+24 42 34.2	16.1 N	585	C/2011 A3	2011 06 21.21232	13 11 20.27	+23 45 58.1		32H06
C/2011 A3	2011 06 14.93932	13 09 27.33	+24 42 32.8	16.1 N	585	C/2011 A3	2011 06 21.21517	13 11 20.34	+23 45 56.7		32H06
C/2011 A3	2011 06 14.94492	13 09 27.39	+24 42 30.4	16.4 N	585	C/2011 A3	2011 06 21.21803	13 11 20.39	+23 45 55.4	15.5 T	32H06
C/2011 A3	2011 06 14.94633	13 09 27.39	+24 42 29.6	16.4 N	585	C/2011 A3	2011 06 23.90891	13 12 23.04	+23 19 56.4	16.3 N	K 958
C/2011 A3	2011 06 14.94773	13 09 27.41	+24 42 28.7	16.2 N	585	C/2011 A3	2011 06 23.92006	13 12 23.31	+23 19 49.6	16.4 N	K 958
C/2011 A3	2011 06 14.95194	13 09 27.47	+24 42 26.7	16.1 N	585	C/2011 A3	2011 06 23.93081	13 12 23.51	+23 19 43.4	16.3 N	K 958
C/2011 A3	2011 06 14.95334	13 09 27.53	+24 42 25.7	16.3 N	585	C/2011 A3	2011 06 24.90869	13 12 48.37	+23 10 03.7	16.0 N	K 958
C/2011 A3	2011 06 16.94840	13 09 58.41	+24 25 03.5	17.1 N	B96	C/2011 A3	2011 06 24.92026	13 12 48.76	+23 09 55.8	16.1 N	K 958
C/2011 A3	2011 06 16.95282	13 09 58.52	+24 25 01.1	17.0 N	B96	C/2011 A3	2011 06 24.92415	13 12 48.92	+23 09 53.6	15.9 N	J24
C/2011 A3	2011 06 16.95735	13 09 58.55	+24 24 58.6	16.9 N	B96	C/2011 A3	2011 06 24.93066	13 12 49.13	+23 09 49.8	15.8 N	J24
C/2011 A3	2011 06 16.96188	13 09 58.60	+24 24 56.5	17.1 N	B96	C/2011 A3	2011 06 24.93086	13 12 49.05	+23 09 49.3	15.9 N	K 958
C/2011 A3	2011 06 16.96640	13 09 58.74	+24 24 53.9	17.0 N	B96	C/2011 A3	2011 06 24.93501	13 12 49.22	+23 09 47.2	15.8 N	J24
C/2011 A3	2011 06 16.97093	13 09 58.79	+24 24 51.4	17.0 N	B96	C/2011 A3	2011 06 25.90154	13 13 14.87	+23 00 04.6	15.9 N	K 958
C/2011 A3	2011 06 16.99749	13 09 59.19	+24 24 37.0	16.7 N	K 958	C/2011 A3	2011 06 25.91242	13 13 15.11	+22 59 58.6	15.9 N	K 958
C/2011 A3	2011 06 17.00851	13 09 59.34	+24 24 31.6	16.8 N	K 958	C/2011 A3	2011 06 25.92403	13 13 15.47	+22 59 51.5	15.8 N	K 958
C/2011 A3	2011 06 17.01953	13 09 59.58	+24 24 23.7	16.9 N	K 958	C/2011 A3	2011 06 26.87967	13 13 42.05	+22 50 10.0	15.8 N	B51
C/2011 A3	2011 06 18.86826	13 10 32.65	+24 07 46.5	16.1 N	939	C/2011 A3	2011 06 26.90486	13 13 42.74	+22 49 54.2	15.8 N	B51
C/2011 A3	2011 06 18.87948	13 10 32.87	+24 07 40.5	16.1 N	939	C/2011 A3	2011 06 26.92111	13 13 43.14	+22 49 44.2	16.9 N	B96
C/2011 A3	2011 06 18.89065	13 10 33.09	+24 07 34.3	16.1 N	939	C/2011 A3	2011 06 26.92550	13 13 43.27	+22 49 41.3	16.9 N	B96
C/2011 A3	2011 06 18.92622	13 10 33.66	+24 07 14.0	16.1 N	585	C/2011 A3	2011 06 26.93001	13 13 43.36	+22 49 39.2	17.1 N	B96
C/2011 A3	2011 06 18.92764	13 10 33.72	+24 07 13.6	16.2 N	585	C/2011 A3	2011 06 26.93453	13 13 43.50	+22 49 36.1	17.2 N	B96
C/2011 A3	2011 06 18.93190	13 10 33.79	+24 07 11.4	16.1 N	585	C/2011 A3	2011 06 26.93905	13 13 43.67	+22 49 32.7	16.8 N	B96
C/2011 A3	2011 06 18.93331	13 10 33.84	+24 07 10.4	16.2 N	585	C/2011 A3	2011 06 26.94453	13 13 43.78	+22 49 29.9	16.0 N	939
C/2011 A3	2011 06 18.94001	13 10 33.94	+24 07 06.9	16.2 N	585	C/2011 A3	2011 06 26.94454	13 13 43.85	+22 49 29.5	15.9 N	K 958
C/2011 A3	2011 06 18.94571	13 10 34.03	+24 07 03.9	16.1 N	585	C/2011 A3	2011 06 26.94824	13 13 43.89	+22 49 27.6	16.0 N	939
C/2011 A3	2011 06 18.94712	13 10 34.09	+24 07 02.5	16.2 N	585	C/2011 A3	2011 06 26.95569	13 13 44.10	+22 49 23.0	16.0 N	939
C/2011 A3	2011 06 19.87805	13 10 52.36	+23 58 28.7	16.1 N	B83	C/2011 A3	2011 06 26.95597	13 13 44.11	+22 49 22.4	16.1 N	K 958
C/2011 A3	2011 06 19.89234	13 10 52.64	+23 58 20.6	16.3 N	B83	C/2011 A3	2011 06 26.96667	13 13 44.33	+22 49 14.0	16.0 N	K 958
C/2011 A3	2011 06 19.89652	13 10 52.74	+23 58 18.4	16.1 N	A01	C/2011 A3	2011 06 27.88105	13 14 10.91	+22 39 52.5	16.8 N	233
C/2011 A3	2011 06 19.90439	13 10 52.88	+23 58 13.9	16.1 N	A01	C/2011 A3	2011 06 27.89384	13 14 11.25	+22 39 44.8	16.6 N	233
C/2011 A3	2011 06 19.90520	13 10 52.89	+23 58 13.4	16.2 N	B83	C/2011 A3	2011 06 27.89940	13 14 11.46	+22 39 40.7		K 203
C/2011 A3	2011 06 19.90832	13 10 52.95	+23 58 11.6	16.1 N	A01	C/2011 A3	2011 06 27.90223	13 14 11.52	+22 39 39.1	16.1 N	K 215
C/2011 A3	2011 06 19.92284	13 10 53.23	+23 58 03.1	16.4 N	A71	C/2011 A3	2011 06 27.90329	13 14 11.55	+22 39 38.5	16.2 N	K 215
C/2011 A3	2011 06 19.92572	13 10 53.23	+23 58 01.1	16.6 N	A71	C/2011 A3	2011 06 27.90434	13 14 11.58	+22 39 37.8	16.1 N	K 215
C/2011 A3	2011 06 19.92860	13 10 53.34	+23 57 59.7	16.6 N	A71	C/2011 A3	2011 06 27.90645	13 14 11.64	+22 39 36.7	16.5 N	233
C/2011 A3	2011 06 19.93148	13 10 53.34	+23 57 58.4	16.7 N	A71	C/2011 A3	2011 06 27.93667	13 14 12.62	+22 39 17.8		K 203
C/2011 A3	2011 06 19.93438	13 10 53.38	+23 57 56.4	16.4 N	A71	C/2011 A3	2011 06 28.87262	13 14 40.70	+22 29 34.2	16.0 N	B51
C/2011 A3	2011 06 19.93466	13 10 53.46	+23 57 57.5	16.3 N	K 958	C/2011 A3	2011 06 28.87454	13 14 40.72	+22 29 32.8	15.8 N	235
C/2011 A3	2011 06 19.93726	13 10 53.48	+23 57 54.1	16.8 N	A71	C/2011 A3	2011 06 28.88082	13 14 40.96	+22 29 28.7	16.0 N	B51
C/2011 A3	2011 06 19.94541	13 10 53.74	+23 57 50.5	16.4 N	K 958	C/2011 A3	2011 06 28.88089	13 14 40.91	+22 29 28.7	15.8 N	235
C/2011 A3	2011 06 19.95639	13 10 53.88	+23 57 45.4	16.2 N	K 958	C/2011 A3	2011 06 28.88869	13 14 41.18	+22 29 24.1	16.0 N	B51
C/2011 A3	2011 06 20.18237	13 10 58.51	+23 55 39.4	15.8 T	H45	C/2011 A3	2011 06 29.92568	13 15 13.50	+22 18 28.7	16.4 N	C23
C/2011 A3	2011 06 20.18636	13 10 58.60	+23 55 37.0	15.8 T	H45	C/2011 A3	2011 06 29.92934	13 15 13.61	+22 18 27.6	16.1 N	K 958
C/2011 A3	2011 06 20.19033	13 10 58.68	+23 55 34.6	15.9 T	H45	C/2011 A3	2011 06 29.94033	13 15 13.95	+22 18 19.2	15.9 N	K 958
C/2011 A3	2011 06 20.19293	13 10 58.72	+23 55 33.2	15.8 T	H45	C/2011 A3	2011 06 29.94540	13 15 14.16	+22 18 16.1	16.2 N	C23
C/2011 A3	2011 06 20.19554	13 10 58.78	+23 55 31.8	15.8 T	H45	C/2011 A3	2011 06 29.96671	13 15 14.76	+22 18 03.1	16.2 N	C23
C/2011 A3	2011 06 20.19942	13 10 58.84	+23 55 29.7	15.7 T	H45	C/2011 A3	2011 06 29.97024	13 15 14.89	+22 18 01.2	16.2 N	C23

C/2011 F1	2011 06 19.97771	11 34 33.97	+60 32 53.0	17.6 N	945	C/2011 F1	2011 06 30.92507	11 39 29.77	+59 03 11.7	17.3 N	K 958
C/2011 F1	2011 06 19.98352	11 34 33.73	+60 32 48.9	17.5 N	945	C/2011 F1	2011 06 30.93721	11 39 30.23	+59 03 06.1	17.5 N	J38
C/2011 F1	2011 06 19.99132	11 34 33.89	+60 32 46.9	17.5 N	945	C/2011 F1	2011 06 30.94008	11 39 30.33	+59 03 04.6	17.5 N	J38
C/2011 F1	2011 06 19.99409	11 34 34.07	+60 32 46.6	17.5 N	945	C/2011 F1	2011 06 30.94582	11 39 30.52	+59 03 01.6	17.5 N	J38
C/2011 F1	2011 06 19.99669	11 34 34.36	+60 32 43.0	17.4 N	945	C/2011 F1	2011 07 01.93361	11 40 02.15	+58 54 49.9	17.3 N	J38
C/2011 F1	2011 06 20.20365	11 34 38.74	+60 31 03.3	17.2 T	H45	C/2011 F1	2011 07 01.93935	11 40 02.38	+58 54 47.2	17.5 N	J38
C/2011 F1	2011 06 20.20655	11 34 38.77	+60 31 02.3	17.2 T	H45	C/2011 F1	2011 07 01.94221	11 40 02.46	+58 54 45.8	17.5 N	J38
C/2011 F1	2011 06 20.20981	11 34 38.84	+60 31 00.2	17.3 T	H45	C/2011 F1	2011 07 01.95587	11 40 02.93	+58 54 38.8	17.2 N	J24
C/2011 F1	2011 06 20.21498	11 34 39.10	+60 30 57.7	17.2 T	H45	C/2011 F1	2011 07 01.96453	11 40 03.20	+58 54 34.5	17.1 N	J24
C/2011 F1	2011 06 20.21737	11 34 39.12	+60 30 56.5	17.3 T	H45	C/2011 F1	2011 07 01.97534	11 40 03.54	+58 54 29.2	17.2 N	J24
C/2011 F1	2011 06 20.22894	11 34 39.37	+60 30 51.5	17.2 T	H45	C/2011 F1	2011 07 03.91780	11 41 08.16	+58 38 20.9	17.5 N	C23
C/2011 F1	2011 06 20.88337	11 34 54.26	+60 25 34.0	16.7 N	K J97	C/2011 F1	2011 07 03.92139	11 41 08.28	+58 38 19.6	18.1 N	C23
C/2011 F1	2011 06 20.88671	11 34 54.29	+60 25 32.3	16.8 N	K J97	C/2011 F1	2011 07 03.92499	11 41 08.45	+58 38 17.8	17.2 N	C23
C/2011 F1	2011 06 20.89006	11 34 54.35	+60 25 30.8	16.6 N	K J97	C/2011 F1	2011 07 03.92858	11 41 08.51	+58 38 15.9	17.3 N	C23
C/2011 F1	2011 06 20.91111	11 34 54.83	+60 25 19.6	17.0 N	K 958	C/2011 F1	2011 07 03.93218	11 41 08.61	+58 38 14.9	17.6 N	C23
C/2011 F1	2011 06 20.92261	11 34 55.04	+60 25 14.7	17.4 N	K 958	C/2011 F1	2011 07 03.93578	11 41 09.00	+58 38 12.3	17.9 N	C23
C/2011 F1	2011 06 20.93411	11 34 55.31	+60 25 09.1	17.0 N	K 958	C/2011 F1	2011 07 03.93937	11 41 09.06	+58 38 11.5	17.7 N	C23
C/2011 F1	2011 06 23.91413	11 36 08.04	+60 00 53.9	17.2 N	K 958	C/2011 F1	2011 07 03.94297	11 41 08.99	+58 38 08.1	17.3 N	C23
C/2011 F1	2011 06 23.92564	11 36 08.50	+60 00 48.6	17.2 N	K 958	C/2011 F1	2011 07 03.94656	11 41 09.05	+58 38 06.9	17.9 N	C23
C/2011 F1	2011 06 23.93715	11 36 08.60	+60 00 42.4	17.2 N	K 958	C/2011 F1	2011 07 03.95016	11 41 09.32	+58 38 04.6	17.7 N	C23
C/2011 F1	2011 06 24.92100	11 36 34.49	+59 52 40.3	17.2 N	K 958	C/2011 F1	2011 07 03.95376	11 41 09.44	+58 38 03.2	17.4 N	C23
C/2011 F1	2011 06 24.93249	11 36 34.81	+59 52 34.1	16.9 N	K 958	C/2011 F1	2011 07 03.95735	11 41 09.53	+58 38 01.4	17.2 N	C23
C/2011 F1	2011 06 24.94398	11 36 35.10	+59 52 28.4	17.0 N	K 958	C/2011 F1	2011 07 09.84339	11 44 42.66	+57 48 59.0	16.4 N	235
C/2011 F1	2011 06 26.91244	11 37 29.35	+59 36 19.6	17.0 N	K 958	C/2011 F1	2011 07 09.84627	11 44 42.80	+57 48 57.5	16.8 N	K 235
C/2011 F1	2011 06 26.91285	11 37 29.47	+59 36 18.9		C23	C/2011 F1	2011 07 09.84917	11 44 42.87	+57 48 55.7	16.6 N	235
C/2011 F1	2011 06 26.92394	11 37 29.66	+59 36 14.0	16.9 N	K 958	C/2011 F1	2011 07 09.89948	11 44 44.83	+57 48 30.6	16.2 N	C23
C/2011 F1	2011 06 26.93546	11 37 30.04	+59 36 06.9	17.0 N	K 958	C/2011 F1	2011 07 09.90231	11 44 45.03	+57 48 29.5	16.8 N	C23
C/2011 F1	2011 06 26.94432	11 37 30.25	+59 36 03.4		C23	C/2011 F1	2011 07 09.90514	11 44 45.15	+57 48 27.9	16.9 N	C23
C/2011 F1	2011 06 26.95018	11 37 30.22	+59 36 00.5		C23	C/2011 F1	2011 07 09.90798	11 44 45.26	+57 48 26.3	16.6 N	C23
C/2011 F1	2011 06 26.95378	11 37 30.58	+59 35 58.6		C23	C/2011 F1	2011 07 09.91081	11 44 45.26	+57 48 24.8	16.5 N	C23
C/2011 F1	2011 06 26.95737	11 37 30.51	+59 35 58.1		C23	C/2011 F1	2011 07 09.91364	11 44 45.44	+57 48 23.8	17.0 N	C23
C/2011 F1	2011 06 26.96097	11 37 30.73	+59 35 55.5		C23	C/2011 F1	2011 07 09.91931	11 44 45.80	+57 48 20.8	16.8 N	C23
C/2011 F1	2011 06 27.85294	11 37 56.29	+59 28 34.3	17.2 N	233	C/2011 F1	2011 07 09.92214	11 44 45.74	+57 48 17.9	16.3 N	C23
C/2011 F1	2011 06 27.86234	11 37 56.64	+59 28 29.8	17.1 N	233	C/2011 F1	2011 07 09.92497	11 44 45.72	+57 48 16.4	16.6 N	C23
C/2011 F1	2011 06 27.87333	11 37 56.98	+59 28 24.8	16.8 N	233	C/2011 F1	2011 07 09.93064	11 44 45.92	+57 48 14.7	17.1 N	B96
C/2011 F1	2011 06 28.86361	11 38 26.23	+59 20 14.8	16.3 N	235	C/2011 F1	2011 07 09.93528	11 44 46.28	+57 48 12.6	17.6 N	B96
C/2011 F1	2011 06 28.86679	11 38 26.30	+59 20 13.4	16.5 N	K 235	C/2011 F1	2011 07 09.93986	11 44 46.43	+57 48 10.4	17.4 N	B96
C/2011 F1	2011 06 28.86997	11 38 26.39	+59 20 12.2	16.3 N	235	C/2011 F1	2011 07 09.94444	11 44 46.61	+57 48 07.3	17.6 N	B96
C/2011 F1	2011 06 28.88540	11 38 26.92	+59 20 04.8	16.9 N	K J97	C/2011 F1	2011 07 09.94792	11 44 46.74	+57 48 06.3	16.9 N	C23
C/2011 F1	2011 06 28.88956	11 38 27.01	+59 20 02.4	16.8 N	K J97	C/2011 F1	2011 07 09.94904	11 44 46.92	+57 48 05.6	17.5 N	B96
C/2011 F1	2011 06 28.89373	11 38 27.10	+59 20 00.1	17.1 N	K J97						
C/2011 F1	2011 06 29.51056	11 38 45.80	+59 14 54.3	17.4 T	D95						
C/2011 F1	2011 06 29.51484	11 38 45.94	+59 14 52.0		D95	C/2011 G1	2011 06 17.89382	10 57 48.55	-06 46 15.3	17.6 N	J24
C/2011 F1	2011 06 29.51697	11 38 45.95	+59 14 51.1		D95	C/2011 G1	2011 06 17.89718	10 57 48.46	-06 46 12.4	17.6 N	J24
C/2011 F1	2011 06 29.51911	11 38 46.04	+59 14 50.0		D95	C/2011 G1	2011 06 17.90053	10 57 48.27	-06 46 08.2	17.6 N	J24
C/2011 F1	2011 06 29.90180	11 38 57.90	+59 11 40.2	18.3 N	K 958	C/2011 G1	2011 06 17.90390	10 57 48.04	-06 46 03.3	17.7 N	J24
C/2011 F1	2011 06 29.92481	11 38 58.41	+59 11 28.2	18.1 N	K 958						
C/2011 F1	2011 06 29.94861	11 38 59.40	+59 11 16.3	17.4 N	945	C/2011 J3	2011 06 22.15930	16 41 55.43	+61 07 35.3		32H06
C/2011 F1	2011 06 29.95366	11 38 59.55	+59 11 13.6	17.3 N	945	C/2011 J3	2011 06 22.16290	16 41 54.27	+61 07 30.0	18.2 T	32H06
C/2011 F1	2011 06 29.95850	11 39 00.02	+59 11 10.2	17.3 N	945	C/2011 J3	2011 06 24.23247	16 30 50.38	+60 15 04.2	18.9 N	H10
C/2011 F1	2011 06 29.96503	11 39 00.15	+59 11 08.9	17.4 T	945	C/2011 J3	2011 06 24.24250	16 30 47.18	+60 14 48.7	18.9 N	H10
C/2011 F1	2011 06 30.90537	11 39 29.20	+59 03 20.5	17.4 N	K 958	C/2011 J3	2011 06 24.33091	16 30 19.66	+60 12 30.7		32H06
C/2011 F1	2011 06 30.91524	11 39 29.51	+59 03 17.9	17.0 N	K 958	C/2011 J3	2011 06 24.33573	16 30 18.18	+60 12 22.6	18.3 T	32H06

C/2011 J3	2011 06 27.92224	16 13 19.14	+58 32 48.5	19.2 T	K 215	C/2011 L1	2011 06 23.58397	15 46 06.96	-25 41 19.3	17.0 T	D96
C/2011 J3	2011 06 27.92365	16 13 18.76	+58 32 46.2	19.4 T	K 215	C/2011 L1	2011 06 23.61542	15 46 05.57	-25 40 34.5	17.0 T	D96
C/2011 J3	2011 06 27.92488	16 13 18.46	+58 32 44.3	19.5 T	K 215	C/2011 L1	2011 06 23.63348	15 46 04.83	-25 40 09.2	17.0 T	D96
C/2011 J3	2011 07 02.24262	15 56 09.99	+56 22 47.7		32H06	C/2011 L1	2011 06 23.94660	15 45 51.54	-25 33 04.3	17.8 N	K 958
C/2011 J3	2011 07 02.24744	15 56 08.95	+56 22 38.7	18.2 T	32H06	C/2011 L1	2011 06 23.95722	15 45 51.21	-25 32 51.8	17.6 N	K 958
C/2011 J3	2011 07 08.27964	15 37 25.72	+53 11 14.6		32H06	C/2011 L1	2011 06 23.96824	15 45 50.60	-25 32 38.5	17.8 N	K 958
C/2011 J3	2011 07 08.28325	15 37 25.05	+53 11 07.3	18.4 T	32H06	C/2011 L1	2011 06 24.15789	15 45 43.11	-25 28 17.8		32H06
C/2011 J3	2011 07 08.90521	15 35 47.44	+52 51 05.7	19.5 N	K 213	C/2011 L1	2011 06 24.16271	15 45 42.87	-25 28 12.2	16.6 T	32H06
C/2011 J3	2011 07 08.91700	15 35 45.58	+52 50 42.6	19.5 N	K 213	C/2011 L1	2011 06 24.44605	15 45 31.14	-25 21 43.1	18.0 T	K 423
C/2011 J3	2011 07 08.92805	15 35 43.90	+52 50 20.8	19.5 N	K 213	C/2011 L1	2011 06 24.49006	15 45 29.21	-25 20 45.1	17.3 T	K 423
C/2011 K1 (Schwartz-Holvorcem)						C/2011 L1	2011 06 24.93988	15 45 11.14	-25 10 39.8	17.0 N	J24
C/2011 K1	2011 06 12.22262	16 24 33.25	-19 53 36.5	19.2 T	926	C/2011 L1	2011 06 24.94325	15 45 10.97	-25 10 36.4	16.8 N	J24
C/2011 K1	2011 06 12.23528	16 24 31.24	-19 53 46.3	19.9 T	926	C/2011 L1	2011 06 24.94400	15 45 10.82	-25 10 35.0	17.9 N	K 958
C/2011 K1	2011 06 12.32522	16 24 17.51	-19 54 41.3	19.6 T	926	C/2011 L1	2011 06 24.94608	15 45 10.89	-25 10 32.4	16.9 N	J24
C/2011 K1	2011 06 12.32758	16 24 17.23	-19 54 41.8	19.3 T	926	C/2011 L1	2011 06 24.94890	15 45 10.79	-25 10 27.3	17.0 N	J24
C/2011 K1	2011 06 12.32993	16 24 16.80	-19 54 44.1	19.1 T	926	C/2011 L1	2011 06 24.95493	15 45 10.42	-25 10 20.4	17.8 N	K 958
C/2011 K1	2011 06 12.33228	16 24 16.46	-19 54 45.4	20.0 T	926	C/2011 L1	2011 06 24.96595	15 45 09.94	-25 10 07.6	17.8 N	K 958
C/2011 K1	2011 06 12.33463	16 24 16.09	-19 54 46.4	19.6 T	926	C/2011 L1	2011 06 25.47228	15 44 50.10	-24 58 43.7	18.4 N	D96
C/2011 K1	2011 06 12.33697	16 24 15.79	-19 54 47.9	19.4 T	926	C/2011 L1	2011 06 25.47616	15 44 49.98	-24 58 37.7	18.4 N	D96
C/2011 K1	2011 06 12.33933	16 24 15.42	-19 54 49.8	19.4 T	926	C/2011 L1	2011 06 25.89970	15 44 33.51	-24 49 21.5	18.0 N	K C10
C/2011 K1	2011 06 22.29852	16 00 03.35	-21 29 44.2	18.8 N	K H15	C/2011 L1	2011 06 25.92326	15 44 32.62	-24 48 48.7	17.8 N	K C10
C/2011 K1	2011 06 22.31688	16 00 00.73	-21 29 54.2	19.2 N	K H15	C/2011 L1	2011 06 25.94316	15 44 31.78	-24 48 22.2	17.7 N	K 958
C/2011 K1	2011 06 24.16921	15 55 46.53	-21 45 46.0		32H06	C/2011 L1	2011 06 25.95418	15 44 31.42	-24 48 06.9	17.9 N	K 958
C/2011 K1	2011 06 24.17162	15 55 46.25	-21 45 48.1	18.5 T	32H06	C/2011 L1	2011 06 25.96488	15 44 30.99	-24 47 52.3	18.0 N	K 958
C/2011 K1	2011 06 26.16936	15 51 18.66	-22 02 17.2		32H06	C/2011 L1	2011 06 26.40362	15 44 14.71	-24 38 09.0	19.5 N	K E07
C/2011 K1	2011 06 26.17238	15 51 18.28	-22 02 18.5		32H06	C/2011 L1	2011 06 26.41496	15 44 14.30	-24 37 53.9	19.4 N	K E07
C/2011 K1	2011 06 26.17539	15 51 17.88	-22 02 20.3	18.3 T	32H06	C/2011 L1	2011 06 26.95119	15 43 54.41	-24 26 14.8	17.9 T	K 215
C/2011 K1	2011 06 27.93209	15 47 28.79	-22 16 19.0	19.3 T	K 215	C/2011 L1	2011 06 26.95224	15 43 54.37	-24 26 13.0	17.9 T	K 215
C/2011 K1	2011 06 27.93350	15 47 28.62	-22 16 19.2	19.3 T	K 215	C/2011 L1	2011 06 26.95330	15 43 54.31	-24 26 12.8	17.7 T	K 215
C/2011 K1	2011 06 27.93473	15 47 28.43	-22 16 19.8	19.2 T	K 215	C/2011 L1	2011 06 27.48609	15 43 35.36	-24 14 36.3	18.0 T	K 423
C/2011 L1 (McNaught)						C/2011 L1	2011 06 27.50716	15 43 34.58	-24 14 09.8	17.9 T	K 423
C/2011 L1	2011 06 18.17583	15 50 26.31	-27 49 08.0		32H06	C/2011 L1	2011 06 27.51899	15 43 34.25	-24 13 53.9		KD96
C/2011 L1	2011 06 18.17824	15 50 26.21	-27 49 04.2	16.6 T	32H06	C/2011 L1	2011 06 27.58771	15 43 31.68	-24 12 24.9	17.2 N	KD96
C/2011 L1	2011 06 19.91782	15 48 56.42	-27 07 04.3		K 204	C/2011 L1	2011 06 29.97585	15 42 14.26	-23 21 57.8	17.6 N	K 958
C/2011 L1	2011 06 19.92701	15 48 55.98	-27 06 50.6	17.8 N	K 204	C/2011 L1	2011 06 29.98727	15 42 13.89	-23 21 45.8	17.8 N	K 958
C/2011 L1	2011 06 19.94525	15 48 55.14	-27 06 26.4	16.9 N	K 958	C/2011 L1	2011 06 30.00042	15 42 13.47	-23 21 26.3	17.7 N	K 958
C/2011 L1	2011 06 19.95265	15 48 54.79	-27 06 15.9	16.7 N	K 958	C/2011 L1	2011 06 30.17679	15 42 07.53	-23 17 49.8	18.5 T	704
C/2011 L1	2011 06 20.00475	15 48 52.27	-27 05 05.5	17.0 N	K 958	C/2011 L1	2011 06 30.18806	15 42 07.18	-23 17 35.7	18.5 T	704
C/2011 L1	2011 06 21.22841	15 47 52.70	-26 36 01.1		32H06	C/2011 L1	2011 06 30.19824	15 42 06.94	-23 17 22.1	18.7 T	704
C/2011 L1	2011 06 21.23126	15 47 52.47	-26 35 57.9		32H06	C/2011 L1	2011 06 30.20849	15 42 06.50	-23 17 12.1	18.6 T	704
C/2011 L1	2011 06 21.23411	15 47 52.35	-26 35 54.7	16.7 T	32H06	C/2011 L1	2011 06 30.21866	15 42 06.25	-23 16 57.4	18.8 T	704
C/2011 L1	2011 06 21.90134	15 47 21.54	-26 20 12.9	17.9 N	K A71	C/2011 L1	2011 06 30.93282	15 41 45.36	-23 02 17.3	18.1 N	K 958
C/2011 L1	2011 06 21.91325	15 47 20.92	-26 19 58.0	18.0 N	K A71	C/2011 L1	2011 06 30.94384	15 41 44.89	-23 02 02.7	18.2 N	K 958
C/2011 L1	2011 06 22.86536	15 46 38.13	-25 57 50.9	17.1 N	K A77	C/2011 L1	2011 06 30.95486	15 41 44.56	-23 01 47.3	17.8 N	K 958
C/2011 L1	2011 06 22.87002	15 46 37.95	-25 57 44.8	17.3 N	K A77	C/2011 L1	2011 07 03.41762	15 40 39.45	-22 12 32.0	17.8 T	K 423
C/2011 L1	2011 06 22.87467	15 46 37.78	-25 57 35.6	17.0 N	K A77	C/2011 L1	2011 07 03.43605	15 40 38.97	-22 12 10.6	18.2 T	K 423
C/2011 L1	2011 06 22.87933	15 46 37.55	-25 57 30.9	17.4 N	K A77	C/2011 L1	2011 07 05.86805	15 39 45.00	-21 25 41.8	17.8 N	K 104
C/2011 L1	2011 06 23.21718	15 46 22.78	-25 49 45.7	18.1 T	704	C/2011 L1	2011 07 05.87683	15 39 44.76	-21 25 33.4	18.1 N	K 104
C/2011 L1	2011 06 23.22768	15 46 22.33	-25 49 30.4	18.7 T	704	C/2011 L1	2011 07 08.96170	15 38 50.99	-20 29 26.3	17.5 N	J24
C/2011 L1	2011 06 23.23802	15 46 21.78	-25 49 19.1	18.3 T	704	C/2011 L1	2011 07 08.97052	15 38 50.80	-20 29 16.7	17.7 N	J24
C/2011 L1	2011 06 23.24846	15 46 21.32	-25 49 04.4	18.2 T	704						
C/2011 L1	2011 06 23.25873	15 46 20.87	-25 48 49.4	18.1 T	704						

C/2011 L2 (McNaught)
C/2011 L2 2011 06 29.60907 22 43 18.57 -42 56 31.5 30E03
C/2011 L2 2011 06 29.61292 22 43 18.55 -42 56 42.0 30E03
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C/2011 L3 2011 06 29.99795 22 05 00.40 -00 30 19.9 16.0 N 585
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C/2011 L3 2011 06 30.13802 22 04 39.76 -00 24 07.9 16.8 N J01
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C/2011 L3 2011 06 30.36075 22 04 06.89 -00 14 14.9 16.3 T H45
C/2011 L3 2011 06 30.36339 22 04 06.47 -00 14 07.8 16.2 T H45
C/2011 L3 2011 06 30.36498 22 04 06.25 -00 14 03.4 16.0 T H45
C/2011 L3 2011 06 30.36609 22 04 06.07 -00 14 00.5 16.3 T H45

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C/2011 L3	2011 07 01.04493	22 02 24.06	+00 16 18.7	16.2 N	K 958	C/2011 L3	2011 07 03.98732	21 54 31.48	+02 31 55.3	16.1 N	C23
C/2011 L3	2011 07 01.05609	22 02 22.33	+00 16 49.1	16.2 N	K 958	C/2011 L3	2011 07 03.99091	21 54 30.89	+02 32 07.7	16.2 N	C23
C/2011 L3	2011 07 01.06823	22 02 20.44	+00 17 21.7	16.1 N	K 958	C/2011 L3	2011 07 03.99451	21 54 30.03	+02 32 17.3	16.1 N	C23
C/2011 L3	2011 07 01.301995	22 01 44.76	+00 27 54.4	16.0 N	H36	C/2011 L3	2011 07 04.00170	21 54 29.13	+02 32 35.4	15.8 N	C23
C/2011 L3	2011 07 01.30314	22 01 44.62	+00 27 58.7	17.2 N	H45	C/2011 L3	2011 07 04.00530	21 54 28.52	+02 32 47.8	16.1 N	C23
C/2011 L3	2011 07 01.30755	22 01 43.92	+00 28 10.7	17.1 N	H45	C/2011 L3	2011 07 04.00889	21 54 27.64	+02 32 56.4	16.2 N	C23
C/2011 L3	2011 07 01.308187	22 01 43.81	+00 28 12.1	16.9 N	H36	C/2011 L3	2011 07 04.02348	21 54 25.24	+02 33 39.7	15.6 N	K 199
C/2011 L3	2011 07 01.30901	22 01 43.71	+00 28 14.8	17.1 N	H45	C/2011 L3	2011 07 04.02650	21 54 24.76	+02 33 47.7	16.4 N	K 199
C/2011 L3	2011 07 01.31069	22 01 43.44	+00 28 19.2	17.1 N	H45	C/2011 L3	2011 07 04.02951	21 54 24.30	+02 33 57.2	16.3 N	K 199
C/2011 L3	2011 07 01.314784	22 01 42.81	+00 28 30.2	16.7 N	H36	C/2011 L3	2011 07 04.04209	21 54 22.08	+02 34 35.3	16.2 N	J40
C/2011 L3	2011 07 01.31634	22 01 42.57	+00 28 34.5	15.8 T	H45	C/2011 L3	2011 07 04.04986	21 54 20.67	+02 34 58.4	16.1 N	J40
C/2011 L3	2011 07 01.31872	22 01 42.21	+00 28 41.2	15.7 T	H45	C/2011 L3	2011 07 04.05225	21 54 20.15	+02 35 04.4	16.1 N	J40
C/2011 L3	2011 07 01.321603	22 01 41.75	+00 28 48.4	16.1 N	H36	C/2011 L3	2011 07 04.07356	21 54 16.63	+02 36 01.2	15.5 N	C10
C/2011 L3	2011 07 01.36944	22 01 34.29	+00 30 58.8	17.2 N	K H47	C/2011 L3	2011 07 04.08119	21 54 15.36	+02 36 22.9	15.5 N	C10
C/2011 L3	2011 07 01.37305	22 01 33.66	+00 31 08.5	16.4 N	K H47	C/2011 L3	2011 07 04.09220	21 54 13.43	+02 36 54.1	15.7 N	C10
C/2011 L3	2011 07 01.37649	22 01 33.12	+00 31 17.8	17.1 N	K H47	C/2011 L3	2011 07 05.97642	21 48 43.29	+04 07 12.3	16.1 N	B51
C/2011 L3	2011 07 01.43527	22 01 23.99	+00 33 57.4		32H06	C/2011 L3	2011 07 05.98208	21 48 42.36	+04 07 27.5	16.0 N	213
C/2011 L3	2011 07 01.43767	22 01 23.61	+00 34 03.8		32H06	C/2011 L3	2011 07 05.98516	21 48 41.71	+04 07 37.7	16.2 N	B51
C/2011 L3	2011 07 01.44008	22 01 23.23	+00 34 10.2	15.0 T	32H06	C/2011 L3	2011 07 05.99835	21 48 39.28	+04 08 16.0	16.2 N	B51
C/2011 L3	2011 07 02.02225	21 59 52.64	+01 00 36.0	16.4 N	C23	C/2011 L3	2011 07 06.00451	21 48 38.24	+04 08 32.3	16.0 N	213
C/2011 L3	2011 07 02.02498	21 59 52.19	+01 00 43.9	16.0 N	C23	C/2011 L3	2011 07 06.01399	21 48 36.51	+04 09 00.1	14.9 N	C09
C/2011 L3	2011 07 02.03103	21 59 51.03	+01 01 06.5	15.9 N	C23	C/2011 L3	2011 07 06.01825	21 48 35.79	+04 09 11.6	15.1 N	C09
C/2011 L3	2011 07 02.03463	21 59 50.82	+01 01 10.4	16.1 N	C23	C/2011 L3	2011 07 06.02020	21 48 35.40	+04 09 18.6	16.1 N	213
C/2011 L3	2011 07 02.04182	21 59 49.46	+01 01 36.0	16.5 N	C23	C/2011 L3	2011 07 06.02249	21 48 34.96	+04 09 24.0	15.0 N	C09
C/2011 L3	2011 07 02.04542	21 59 48.83	+01 01 41.8	16.5 N	C23	C/2011 L3	2011 07 06.02674	21 48 34.27	+04 09 35.8	15.2 N	C09
C/2011 L3	2011 07 02.04901	21 59 48.02	+01 01 55.8	16.3 N	C23	C/2011 L3	2011 07 06.99081	21 45 36.80	+04 56 41.9	17.3 N	A71
C/2011 L3	2011 07 02.06382	21 59 45.99	+01 02 32.3	16.2 N	C09	C/2011 L3	2011 07 06.99294	21 45 36.34	+04 56 49.0	17.2 N	A71
C/2011 L3	2011 07 02.06808	21 59 45.23	+01 02 44.9	16.3 N	C09	C/2011 L3	2011 07 06.99505	21 45 35.90	+04 56 55.4	17.1 N	A71
C/2011 L3	2011 07 02.07231	21 59 44.54	+01 02 56.8	16.2 N	C09	C/2011 L3	2011 07 06.99547	21 45 35.90	+04 56 57.8	16.7 N	K 157
C/2011 L3	2011 07 02.07657	21 59 43.86	+01 03 07.2	16.2 N	C09	C/2011 L3	2011 07 06.99694	21 45 35.57	+04 57 01.5	17.0 N	A71
C/2011 L3	2011 07 02.32622	21 59 04.32	+01 14 36.4	16.0 T	H45	C/2011 L3	2011 07 06.99765	21 45 35.48	+04 57 04.1	16.7 N	K 157
C/2011 L3	2011 07 02.32989	21 59 03.71	+01 14 46.6	16.1 T	H45	C/2011 L3	2011 07 06.99884	21 45 35.23	+04 57 06.5	17.1 N	A71
C/2011 L3	2011 07 02.33467	21 59 02.94	+01 14 59.6	16.1 T	H45	C/2011 L3	2011 07 06.99985	21 45 35.06	+04 57 10.5	16.4 N	K 157
C/2011 L3	2011 07 02.33590	21 59 02.75	+01 15 03.0	16.1 T	H45	C/2011 L3	2011 07 07.00074	21 45 34.84	+04 57 12.2	17.0 N	A71
C/2011 L3	2011 07 02.33745	21 59 02.49	+01 15 07.4	16.0 T	H45	C/2011 L3	2011 07 07.00203	21 45 34.65	+04 57 16.9	16.7 N	K 157
C/2011 L3	2011 07 02.34264	21 59 01.66	+01 15 21.6	16.1 T	H45	C/2011 L3	2011 07 07.39073	21 44 21.26	+05 16 26.8	15.5 N	K H47
C/2011 L3	2011 07 02.34370	21 59 01.48	+01 15 24.4	16.1 T	H45	C/2011 L3	2011 07 07.40008	21 44 19.46	+05 16 54.6	15.5 N	K H47
C/2011 L3	2011 07 03.02418	21 57 11.59	+01 46 51.4	18.0 N	B96	C/2011 L3	2011 07 07.40842	21 44 17.85	+05 17 19.0	15.9 N	K H47
C/2011 L3	2011 07 03.02856	21 57 10.90	+01 47 02.1	17.7 N	B96	C/2011 L3	2011 07 07.43821	21 44 12.27	+05 18 48.1		32H06
C/2011 L3	2011 07 03.03308	21 57 10.12	+01 47 16.1	17.6 N	B96	C/2011 L3	2011 07 07.44122	21 44 11.68	+05 18 55.9		32H06
C/2011 L3	2011 07 03.03758	21 57 09.29	+01 47 27.5	17.7 N	B96	C/2011 L3	2011 07 07.44301	21 44 11.32	+05 19 01.5		32H06
C/2011 L3	2011 07 03.04209	21 57 08.63	+01 47 40.4	17.8 N	B96	C/2011 L3	2011 07 07.44481	21 44 10.96	+05 19 07.1	14.3 T	32H06
C/2011 L3	2011 07 03.33833	21 56 19.86	+02 01 30.4	16.2 T	H45	C/2011 L3	2011 07 07.72127	21 43 18.49	+05 32 47.3		K 367
C/2011 L3	2011 07 03.34100	21 56 19.41	+02 01 38.0	16.1 T	H45	C/2011 L3	2011 07 07.72416	21 43 17.92	+05 32 56.1	14.4 T	K 367
C/2011 L3	2011 07 03.34330	21 56 19.04	+02 01 44.5	16.1 T	H45	C/2011 L3	2011 07 09.04008	21 39 01.16	+06 38 36.4	15.9 N	939
C/2011 L3	2011 07 03.34695	21 56 18.42	+02 01 54.9	16.1 T	H45	C/2011 L3	2011 07 09.04103	21 39 00.97	+06 38 39.2	15.9 N	939
C/2011 L3	2011 07 03.34828	21 56 18.18	+02 01 58.1	16.2 T	H45	C/2011 L3	2011 07 09.04292	21 39 00.56	+06 38 44.7	16.0 N	939
C/2011 L3	2011 07 03.35084	21 56 17.75	+02 02 05.6	16.1 T	H45	C/2011 L3	2011 07 09.08012	21 38 53.24	+06 40 39.9	15.6 N	J24
C/2011 L3	2011 07 03.35310	21 56 17.39	+02 02 12.0	16.2 T	H45	C/2011 L3	2011 07 09.08442	21 38 52.35	+06 40 53.6	15.7 N	J24
C/2011 L3	2011 07 03.95570	21 54 36.63	+02 30 29.7	15.9 N	A77	C/2011 L3	2011 07 09.94841	21 35 57.89	+07 24 26.9	16.3 N	235
C/2011 L3	2011 07 03.95725	21 54 36.39	+02 30 34.0	15.8 N	A77	C/2011 L3	2011 07 09.95022	21 35 57.61	+07 24 32.6	16.3 N	K 235
C/2011 L3	2011 07 03.97653	21 54 33.32	+02 31 26.6	16.9 N	C23	C/2011 L3	2011 07 09.95201	21 35 57.22	+07 24 37.9	15.9 N	235

C/2011 M1	2011 06 30.40311	00 50 05.04	+48 09 38.0	14.0 T	H10	
C/2011 M1	2011 07 01.32187	00 53 16.98	+49 07 03.7	18.0 N	K 850	
C/2011 M1	2011 07 01.33086	00 53 18.70	+49 07 37.5	18.2 N	K 850	
C/2011 M1	2011 07 01.33985	00 53 21.20	+49 08 11.3	18.0 N	K 850	
C/2011 M1	2011 07 01.34884	00 53 22.81	+49 08 45.4	18.6 N	K 850	
C/2011 M1	2011 07 01.35782	00 53 24.87	+49 09 19.1	19.0 N	K 850	
C/2011 M1	2011 07 01.36680	00 53 26.77	+49 09 52.8	19.0 N	K 850	
C/2011 M1	2011 07 01.37578	00 53 28.74	+49 10 26.7	18.8 N	K 850	
C/2011 M1	2011 07 01.38478	00 53 30.58	+49 10 59.7	18.7 N	K 850	
C/2011 M1	2011 07 01.39376	00 53 32.54	+49 11 33.8	19.0 N	K 850	
C/2011 M1	2011 07 02.05641	00 55 56.98	+49 53 13.2	19.4 N	C10	
C/2011 M1	2011 07 02.05788	00 55 57.17	+49 53 21.2	19.2 N	C10	
C/2011 M1	2011 07 02.35670	00 57 04.19	+50 12 18.9		32H06	
C/2011 M1	2011 07 02.36356	00 57 05.74	+50 12 45.4	15.4 T	32H06	
C/2011 M1	2011 07 03.07265	00 59 48.13	+50 57 53.7	18.6 N	K C10	
C/2011 M1	2011 07 03.08805	00 59 51.89	+50 58 54.1	18.3 N	K C10	

C/2011 N2 (McNaught)

C/2011 N2	2011 07 04.45870	14 02 06.24	-39 29 08.5	17.9 T	Q E12	
C/2011 N2	2011 07 04.48350	14 02 07.45	-39 28 47.3		Q E12	
C/2011 N2	2011 07 04.50695	14 02 08.61	-39 28 27.4	17.8 T	Q E12	
C/2011 N2	2011 07 04.51080	14 02 08.79	-39 28 24.6	17.8 T	Q E12	
C/2011 N2	2011 07 04.58102	14 02 12.25	-39 27 24.7		Q E12	
C/2011 N2	2011 07 05.11629	14 02 39.60	-39 19 55.4	19.5 T	32 807	
C/2011 N2	2011 07 05.12081	14 02 39.86	-39 19 51.3	19.5 T	32 807	
C/2011 N2	2011 07 05.34899	14 02 51.84	-39 16 41.4	17.9 T	Q E12	
C/2011 N2	2011 07 05.35333	14 02 52.06	-39 16 37.6	18.0 T	Q E12	
C/2011 N2	2011 07 05.40361	14 02 54.64	-39 15 55.1	18.3 T	K E10	
C/2011 N2	2011 07 05.40504	14 02 54.71	-39 15 53.6	18.4 T	K E10	
C/2011 N2	2011 07 05.40621	14 02 54.77	-39 15 52.6	18.7 T	K E10	
C/2011 N2	2011 07 05.45081	14 02 56.98	-39 15 15.6	18.2 T	30D90	
C/2011 N2	2011 07 05.45760	14 02 57.34	-39 15 09.6	18.1 T	30D90	
C/2011 N2	2011 07 05.47793	14 02 58.36	-39 14 52.4	18.0 T	30D90	
C/2011 N2	2011 07 05.48472	14 02 58.70	-39 14 46.7	18.0 T	30D90	
C/2011 N2	2011 07 05.51385	14 03 00.11	-39 14 22.6	17.8 T	Q E12	
C/2011 N2	2011 07 05.52682	14 03 00.77	-39 14 11.6	17.8 T	Q E12	
C/2011 N2	2011 07 06.04849	14 03 28.11	-39 06 56.8	18.6 T	K I19	
C/2011 N2	2011 07 06.05544	14 03 28.46	-39 06 50.8	18.7 T	K I19	
C/2011 N2	2011 07 06.05918	14 03 28.68	-39 06 47.9	18.7 T	K I19	
C/2011 N2	2011 07 07.02161	14 04 20.05	-38 53 28.7	19.2 T	32 807	
C/2011 N2	2011 07 07.03042	14 04 20.52	-38 53 21.5	19.5 T	32 807	
C/2011 N2	2011 07 07.03481	14 04 20.73	-38 53 17.7	19.3 T	32 807	
C/2011 N2	2011 07 07.46128	14 04 43.83	-38 47 25.9	17.8 T	Q E12	
C/2011 N2	2011 07 07.46907	14 04 44.24	-38 47 18.8	17.8 T	Q E12	
C/2011 N2	2011 07 08.44784	14 05 38.60	-38 33 54.9	18.1 T	K 423	
C/2011 N2	2011 07 08.48132	14 05 40.32	-38 33 29.7	17.0 T	K 423	

C/2011 N3 (SOHO)

C/2011 N3	2011 07 04.24592	06 37 24.3	+18 46 43			249
Geocentric position (AU)	-0.00433157	+0.00989704	+0.00345025			
C/2011 N3	2011 07 04.25424	06 37 27.1	+18 47 32			249
Geocentric position (AU)	-0.00433202	+0.00989693	+0.00345009			
C/2011 N3	2011 07 04.26258	06 37 30.1	+18 48 12			249
Geocentric position (AU)	-0.00433247	+0.00989682	+0.00344994			

C/2011 N3	2011 07 04.27090	06 37 32.3	+18 48 32			249
Geocentric position (AU)	-0.00433292	+0.00989671	+0.00344978			
C/2011 N3	2011 07 04.27923	06 37 34.0	+18 49 38			249
Geocentric position (AU)	-0.00433338	+0.00989659	+0.00344963			
C/2011 N3	2011 07 04.28757	06 37 39.8	+18 50 33			249
Geocentric position (AU)	-0.00433383	+0.00989648	+0.00344948			
C/2011 N3	2011 07 04.29591	06 37 42.3	+18 51 06			249
Geocentric position (AU)	-0.00433428	+0.00989637	+0.00344932			
C/2011 N3	2011 07 04.32091	06 37 49.1	+18 53 34			249
Geocentric position (AU)	-0.00433563	+0.00989603	+0.00344886			
C/2011 N3	2011 07 04.33757	06 37 57.2	+18 54 47			249
Geocentric position (AU)	-0.00433653	+0.00989580	+0.00344855			
C/2011 N3	2011 07 04.35423	06 38 03.1	+18 56 40			249
Geocentric position (AU)	-0.00433742	+0.00989558	+0.00344824			
C/2011 N3	2011 07 04.37924	06 38 13.0	+18 59 00			249
Geocentric position (AU)	-0.00433877	+0.00989524	+0.00344778			
C/2011 N3	2011 07 04.40425	06 38 20.5	+19 01 21			249
Geocentric position (AU)	-0.00434012	+0.00989490	+0.00344732			
C/2011 N3	2011 07 04.42091	06 38 27.9	+19 03 01			249
Geocentric position (AU)	-0.00434101	+0.00989467	+0.00344701			
C/2011 N3	2011 07 04.43757	06 38 32.0	+19 04 21			249
Geocentric position (AU)	-0.00434190	+0.00989444	+0.00344670			
C/2011 N3	2011 07 04.46257	06 38 43.5	+19 06 53			249
Geocentric position (AU)	-0.00434324	+0.00989410	+0.00344624			
C/2011 N3	2011 07 04.47924	06 38 47.6	+19 08 39			249
Geocentric position (AU)	-0.00434413	+0.00989387	+0.00344593			
C/2011 N3	2011 07 04.49590	06 38 55.8	+19 10 26			249
Geocentric position (AU)	-0.00434502	+0.00989364	+0.00344563			
C/2011 N3	2011 07 04.52091	06 39 03.0	+19 12 48			249
Geocentric position (AU)	-0.00434636	+0.00989329	+0.00344517			
C/2011 N3	2011 07 04.53757	06 39 10.9	+19 14 36			249
Geocentric position (AU)	-0.00434725	+0.00989306	+0.00344486			
C/2011 N3	2011 07 04.57090	06 39 22.8	+19 17 38			249
Geocentric position (AU)	-0.00434902	+0.00989260	+0.00344424			
C/2011 N3	2011 07 04.58757	06 39 30.3	+19 19 16			249
Geocentric position (AU)	-0.00434990	+0.00989236	+0.00344394			
C/2011 N3	2011 07 04.60424	06 39 36.7	+19 21 12			249
Geocentric position (AU)	-0.00435079	+0.00989213	+0.00344363			
C/2011 N3	2011 07 04.62924	06 39 46.3	+19 23 30			249
Geocentric position (AU)	-0.00435211	+0.00989178	+0.00344317			
C/2011 N3	2011 07 04.64590	06 39 52.3	+19 25 30			249
Geocentric position (AU)	-0.00435300	+0.00989155	+0.00344286			
C/2011 N3	2011 07 04.66257	06 40 00.3	+19 27 16			249
Geocentric position (AU)	-0.00435388	+0.00989131	+0.00344256			
C/2011 N3	2011 07 04.68757	06 40 08.9	+19 29 47			249
Geocentric position (AU)	-0.00435520	+0.00989096	+0.00344210			
C/2011 N3	2011 07 04.70424	06 40 15.6	+19 31 20			249
Geocentric position (AU)	-0.00435608	+0.00989073	+0.00344179			
C/2011 N3	2011 07 04.72091	06 40 21.7	+19 33 17			249
Geocentric position (AU)	-0.00435695	+0.00989049	+0.00344148			
C/2011 N3	2011 07 04.73757	06 40 28.9	+19 34 56			249
Geocentric position (AU)	-0.00435783	+0.00989025	+0.00344118			

C/2011 N3	2011 07 04.76257	06 40 39.4	+19 37 56	249	C/2011 N3	2011 07 05.32924	06 45 10.9	+20 47 32	249
Geocentric position (AU)	-0.00435914	+0.00988990	+0.00344072		Geocentric position (AU)	-0.00438835	+0.00988165	+0.00343037	
C/2011 N3	2011 07 04.77923	06 40 46.3	+19 39 14	249	C/2011 N3	2011 07 05.33927	00 52 25.7	+03 20 44	C50
Geocentric position (AU)	-0.00436002	+0.00988966	+0.00344041		Geocentric position (AU)	-1.23367730	+0.74188953	+0.31841857	
C/2011 N3	2011 07 04.79590	06 40 54.4	+19 41 27	249	C/2011 N3	2011 07 05.35015	13 00 20.1	-09 15 34	C49
Geocentric position (AU)	-0.00436089	+0.00988943	+0.00344011		Geocentric position (AU)	+0.67364889	+1.21703050	+0.52815120	
C/2011 N3	2011 07 04.82090	06 41 04.7	+19 44 51	249	C/2011 N3	2011 07 05.35423	06 45 24.7	+20 50 37	249
Geocentric position (AU)	-0.00436220	+0.00988907	+0.00343965		Geocentric position (AU)	-0.00438962	+0.00988127	+0.00342992	
C/2011 N3	2011 07 04.83757	06 41 11.7	+19 46 12	249	C/2011 N3	2011 07 05.37098	13 00 51.9	-09 13 57	C49
Geocentric position (AU)	-0.00436307	+0.00988883	+0.00343934		Geocentric position (AU)	+0.67317914	+1.21727410	+0.52825596	
C/2011 N3	2011 07 04.85424	06 41 18.8	+19 48 31	249	C/2011 N3	2011 07 05.37925	06 45 37.5	+20 54 26	249
Geocentric position (AU)	-0.00436394	+0.00988859	+0.00343904		Geocentric position (AU)	-0.00439088	+0.00988090	+0.00342946	
C/2011 N3	2011 07 04.88757	06 41 31.5	+19 51 38	249	C/2011 N3	2011 07 05.40261	00 51 30.1	+03 26 41	C50
Geocentric position (AU)	-0.00436568	+0.00988812	+0.00343843		Geocentric position (AU)	-1.23456660	+0.74068639	+0.31789178	
C/2011 N3	2011 07 04.91257	06 41 43.4	+19 54 01	249	C/2011 N3	2011 07 05.40423	06 45 53.8	+20 57 29	249
Geocentric position (AU)	-0.00436698	+0.00988776	+0.00343797		Geocentric position (AU)	-0.00439214	+0.00988052	+0.00342901	
C/2011 N3	2011 07 04.92927	06 41 52.1	+19 56 40	249	C/2011 N3	2011 07 05.41265	13 01 53.9	-09 11 47	C49
Geocentric position (AU)	-0.00436785	+0.00988752	+0.00343766		Geocentric position (AU)	+0.67223933	+1.21776080	+0.52846529	
C/2011 N3	2011 07 04.97924	06 42 12.8	+20 02 10	249	C/2011 N3	2011 07 05.42261	00 51 12.2	+03 28 09	C50
Geocentric position (AU)	-0.00437044	+0.00988679	+0.00343675		Geocentric position (AU)	-1.23484720	+0.74030628	+0.31772535	
C/2011 N3	2011 07 05.00424	06 42 26.9	+20 05 20	249	C/2011 N3	2011 07 05.42924	06 46 09.1	+21 01 48	249
Geocentric position (AU)	-0.00437174	+0.00988643	+0.00343629		Geocentric position (AU)	-0.00439339	+0.00988015	+0.00342856	
C/2011 N3	2011 07 05.02090	06 42 32.4	+20 07 11	249	C/2011 N3	2011 07 05.44427	00 50 52.1	+03 30 13	C50
Geocentric position (AU)	-0.00437260	+0.00988619	+0.00343599		Geocentric position (AU)	-1.23515100	+0.73989440	+0.31754500	
C/2011 N3	2011 07 05.06257	06 42 53.2	+20 12 29	249	C/2011 N3	2011 07 05.45424	06 46 26.0	+21 05 38	249
Geocentric position (AU)	-0.00437474	+0.00988558	+0.00343522		Geocentric position (AU)	-0.00439465	+0.00987977	+0.00342811	
C/2011 N3	2011 07 05.08757	06 43 05.6	+20 15 02	249	C/2011 N3	2011 07 05.45432	13 02 55.9	-09 08 50	C49
Geocentric position (AU)	-0.00437603	+0.00988522	+0.00343477		Geocentric position (AU)	+0.67129911	+1.21824700	+0.52867434	
C/2011 N3	2011 07 05.10424	06 43 12.1	+20 17 42	249	C/2011 N3	2011 07 05.47552	00 50 24.0	+03 32 27	C50
Geocentric position (AU)	-0.00437689	+0.00988497	+0.00343446		Geocentric position (AU)	-1.23558880	+0.73930015	+0.31728482	
C/2011 N3	2011 07 05.13838	06 43 30.0	+20 22 17	249	C/2011 N3	2011 07 05.47924	06 46 40.2	+21 09 30	249
Geocentric position (AU)	-0.00437864	+0.00988447	+0.00343384		Geocentric position (AU)	-0.00439590	+0.00987940	+0.00342765	
C/2011 N3	2011 07 05.15423	06 43 38.4	+20 23 51	249	C/2011 N3	2011 07 05.50423	06 46 55.5	+21 13 16	249
Geocentric position (AU)	-0.00437945	+0.00988424	+0.00343355		Geocentric position (AU)	-0.00439715	+0.00987902	+0.00342720	
C/2011 N3	2011 07 05.17090	06 43 45.3	+20 26 10	249	C/2011 N3	2011 07 05.51719	00 49 45.8	+03 36 23	C50
Geocentric position (AU)	-0.00438030	+0.00988399	+0.00343325		Geocentric position (AU)	-1.23617210	+0.73850752	+0.31693778	
C/2011 N3	2011 07 05.19590	06 43 58.7	+20 29 01	249	C/2011 N3	2011 07 05.54761	00 49 15.9	+03 38 43	C50
Geocentric position (AU)	-0.00438158	+0.00988363	+0.00343279		Geocentric position (AU)	-1.23659750	+0.73792867	+0.31668434	
C/2011 N3	2011 07 05.21257	06 44 07.3	+20 31 30	249	C/2011 N3	2011 07 05.56257	06 47 34.4	+21 22 42	249
Geocentric position (AU)	-0.00438243	+0.00988338	+0.00343249		Geocentric position (AU)	-0.00440006	+0.00987813	+0.00342615	
C/2011 N3	2011 07 05.22924	06 44 14.1	+20 33 55	249	C/2011 N3	2011 07 05.57969	00 48 45.1	+03 42 05	C50
Geocentric position (AU)	-0.00438328	+0.00988313	+0.00343219		Geocentric position (AU)	-1.23704590	+0.73731789	+0.31641692	
C/2011 N3	2011 07 05.25424	06 44 32.0	+20 37 13	249	C/2011 N3	2011 07 05.59590	06 47 57.4	+21 28 29	249
Geocentric position (AU)	-0.00438455	+0.00988276	+0.00343173		Geocentric position (AU)	-0.00440172	+0.00987763	+0.00342555	
C/2011 N3	2011 07 05.27761	00 53 15.2	+03 15 35	C50	C/2011 N3	2011 07 05.61094	00 48 11.9	+03 44 58	C50
Geocentric position (AU)	-1.23281010	+0.74306020	+0.31893115		Geocentric position (AU)	-1.23748230	+0.73672276	+0.31615636	
C/2011 N3	2011 07 05.27923	06 44 44.5	+20 40 19	249	C/2011 N3	2011 07 05.63757	06 48 26.6	+21 35 23	249
Geocentric position (AU)	-0.00438582	+0.00988239	+0.00343128		Geocentric position (AU)	-0.00440379	+0.00987699	+0.00342480	
C/2011 N3	2011 07 05.30423	06 44 55.9	+20 43 46	249	C/2011 N3	2011 07 05.64219	00 47 38.3	+03 48 19	C50
Geocentric position (AU)	-0.00438709	+0.00988202	+0.00343082		Geocentric position (AU)	-1.23791840	+0.73612743	+0.31589571	
C/2011 N3	2011 07 05.30886	00 52 50.2	+03 18 49	C50	C/2011 N3	2011 07 05.65840	06 48 42.1	+21 39 37	249
Geocentric position (AU)	-1.23324970	+0.74246706	+0.31867144		Geocentric position (AU)	-0.00440482	+0.00987667	+0.00342442	

C/2011 N3	2011 07 05.66257	06 48 46.8	+21 39 44	249
Geocentric position (AU)	-0.00440502	+0.00987661	+0.00342435	
C/2011 N3	2011 07 05.66302	00 47 14.9	+03 50 14	C50
Geocentric position (AU)	-1.23820890	+0.73573043	+0.31572189	
C/2011 N3	2011 07 05.66673	06 48 49.0	+21 41 11	249
Geocentric position (AU)	-0.00440523	+0.00987655	+0.00342427	
C/2011 N3	2011 07 05.67507	06 48 56.4	+21 42 44	249
Geocentric position (AU)	-0.00440564	+0.00987642	+0.00342412	
C/2011 N3	2011 07 05.69427	00 46 39.5	+03 53 10	C50
Geocentric position (AU)	-1.23864440	+0.73513476	+0.31546110	
C/2011 N3	2011 07 05.71328	06 49 29.8	+21 50 08	249
Geocentric position (AU)	-0.00440753	+0.00987583	+0.00342343	
C/2011 N3	2011 07 05.72507	06 49 39.0	+21 52 28	249
Geocentric position (AU)	-0.00440811	+0.00987565	+0.00342322	
C/2011 N3	2011 07 05.72552	00 46 04.3	+03 56 32	C50
Geocentric position (AU)	-1.23907960	+0.73453889	+0.31520022	
C/2011 N3	2011 07 05.73340	06 49 46.6	+21 54 07	249
Geocentric position (AU)	-0.00440852	+0.00987552	+0.00342307	
C/2011 N3	2011 07 05.74173	06 49 54.8	+21 55 52	249
Geocentric position (AU)	-0.00440893	+0.00987540	+0.00342292	
C/2011 N3	2011 07 05.75008	06 50 02.3	+21 57 35	249
Geocentric position (AU)	-0.00440934	+0.00987527	+0.00342277	
C/2011 N3	2011 07 05.75594	00 45 28.2	+03 59 48	C50
Geocentric position (AU)	-1.23950280	+0.73395871	+0.31494621	
C/2011 N3	2011 07 05.75840	06 50 10.6	+21 59 09	249
Geocentric position (AU)	-0.00440975	+0.00987514	+0.00342262	
C/2011 N3	2011 07 05.76673	06 50 19.1	+22 00 56	249
Geocentric position (AU)	-0.00441015	+0.00987501	+0.00342247	
C/2011 N3	2011 07 05.77761	00 44 59.8	+04 02 10	C50
Geocentric position (AU)	-1.23980410	+0.73354531	+0.31476522	
C/2011 N3	2011 07 05.78340	06 50 35.4	+22 04 36	249
Geocentric position (AU)	-0.00441097	+0.00987476	+0.00342218	
C/2011 N3	2011 07 05.79173	06 50 44.3	+22 06 18	249
Geocentric position (AU)	-0.00441138	+0.00987463	+0.00342203	
C/2011 N3	2011 07 05.79761	00 44 32.4	+04 04 33	C50
Geocentric position (AU)	-1.24008210	+0.73316363	+0.31459812	
C/2011 N3	2011 07 05.80007	06 50 52.4	+22 08 01	249
Geocentric position (AU)	-0.00441179	+0.00987450	+0.00342188	
C/2011 N3	2011 07 05.80840	06 51 01.8	+22 09 55	249
Geocentric position (AU)	-0.00441220	+0.00987437	+0.00342173	
C/2011 N3	2011 07 05.81673	06 51 10.4	+22 11 45	249
Geocentric position (AU)	-0.00441260	+0.00987424	+0.00342158	
C/2011 N3	2011 07 05.82507	06 51 20.3	+22 13 39	249
Geocentric position (AU)	-0.00441301	+0.00987411	+0.00342143	
C/2011 N3	2011 07 05.82969	00 43 48.7	+04 08 06	C50
Geocentric position (AU)	-1.24052770	+0.73255117	+0.31432998	
C/2011 N3	2011 07 05.83341	06 51 30.0	+22 15 31	249
Geocentric position (AU)	-0.00441342	+0.00987398	+0.00342128	
C/2011 N3	2011 07 05.84173	06 51 40.2	+22 17 35	249
Geocentric position (AU)	-0.00441383	+0.00987385	+0.00342113	
C/2011 N3	2011 07 05.85007	06 51 50.2	+22 19 21	249
Geocentric position (AU)	-0.00441423	+0.00987373	+0.00342098	

C/2011 N3	2011 07 05.89177	06 52 48.2	+22 29 56	249
Geocentric position (AU)	-0.00441626	+0.00987308	+0.00342023	
C/2011 N3	2011 07 05.90007	06 53 01.3	+22 32 06	249
Geocentric position (AU)	-0.00441667	+0.00987295	+0.00342009	
C/2011 N3	2011 07 05.91673	06 53 29.6	+22 36 29	249
Geocentric position (AU)	-0.00441748	+0.00987269	+0.00341979	
C/2011 N3	2011 07 05.92507	06 53 45.0	+22 38 56	249
Geocentric position (AU)	-0.00441788	+0.00987256	+0.00341964	
C/2011 N3	2011 07 05.93340	06 54 01.3	+22 41 10	249
Geocentric position (AU)	-0.00441829	+0.00987243	+0.00341949	
C/2011 N3	2011 07 05.94173	06 54 19.4	+22 43 45	249
Geocentric position (AU)	-0.00441869	+0.00987230	+0.00341934	
C/2011 N3	2011 07 05.96230	06 55 09.0	+22 49 45	249
Geocentric position (AU)	-0.00441969	+0.00987198	+0.00341898	

P/2007 R1 (Larson)

P/2007 R1	2007 09 30.37925	23 59 20.96	-00 01 22.8	20.3 N	7 705
P/2007 R1	2007 09 30.38174	23 59 20.91	-00 01 24.4	20.1 N	7 705
P/2007 R1	2007 10 08.32139	23 55 52.52	-00 35 12.9	20.0 N	7 705
P/2007 R1	2007 10 08.32221	23 55 52.50	-00 35 13.2	20.2 N	7 705
P/2007 R1	2007 10 08.32470	23 55 52.43	-00 35 13.7	19.9 N	7 705
P/2007 R1	2007 10 09.30096	23 55 28.13	-00 39 13.9	20.0 N	7 705
P/2007 R1	2007 10 09.30178	23 55 28.10	-00 39 13.9	20.4 N	7 705
P/2007 R1	2007 10 09.30428	23 55 28.03	-00 39 14.5	19.9 N	7 705
P/2007 R1	2007 10 13.31227	23 53 52.30	-00 55 10.2	20.0 N	7 705
P/2007 R1	2007 10 13.31310	23 53 52.29	-00 55 10.4	20.2 N	7 705
P/2007 R1	2007 10 13.31559	23 53 52.21	-00 55 10.9	20.0 N	7 705

P/2011 JB₁₅ (Spacewatch-Boattini)

P/2011 JB ₁₅	2011 06 26.18047	15 57 14.18	+02 53 32.8	18.5 N	H10
P/2011 JB ₁₅	2011 06 26.20244	15 57 13.75	+02 53 30.3	18.5 N	H10
P/2011 JB ₁₅	2011 06 26.25527	15 57 12.67	+02 53 23.6	18.5 N	H10
P/2011 JB ₁₅	2011 06 27.95056	15 56 43.46	+02 50 04.9	18.3 T	K 215
P/2011 JB ₁₅	2011 06 27.95179	15 56 43.45	+02 50 04.7	18.5 T	K 215
P/2011 JB ₁₅	2011 06 27.95302	15 56 43.42	+02 50 04.2	18.4 T	K 215

P/2011 N1

P/2011 N1	2011 07 01.35971	00 55 58.88	-37 06 27.3	19.9 T	I16
P/2011 N1	2011 07 01.36810	00 55 59.33	-37 06 30.5	19.7 T	I16
P/2011 N1	2011 07 01.37611	00 55 59.77	-37 06 32.6	19.6 T	I16
P/2011 N1	2011 07 02.40927	00 56 53.64	-37 12 01.3	19.4 T	I16
P/2011 N1	2011 07 02.41333	00 56 53.78	-37 12 02.2	19.3 T	I16
P/2011 N1	2011 07 02.42145	00 56 54.12	-37 12 06.9	19.3 T	I16
P/2011 N1	2011 07 03.40206	00 57 44.69	-37 17 22.2	18.3 T	I08
P/2011 N1	2011 07 03.40792	00 57 44.89	-37 17 23.9	19.1 T	I08
P/2011 N1	2011 07 03.41375	00 57 45.26	-37 17 25.6	18.2 T	I08
P/2011 N1	2011 07 03.41959	00 57 45.53	-37 17 27.9	18.7 T	I08
P/2011 N1	2011 07 03.42538	00 57 45.84	-37 17 29.7	18.6 T	I08
P/2011 N1	2011 07 03.74604	00 58 02.17	-37 19 14.1		30D90
P/2011 N1	2011 07 03.75732	00 58 02.76	-37 19 18.3	18.5 T	30D90
P/2011 N1	2011 07 03.76861	00 58 03.38	-37 19 21.9	19.0 T	30D90
P/2011 N1	2011 07 04.37955	00 58 34.23	-37 22 45.3	18.6 T	I08
P/2011 N1	2011 07 04.38534	00 58 34.45	-37 22 47.2	18.5 T	I08
P/2011 N1	2011 07 05.31343	00 59 20.89	-37 28 00.7	18.3 T	I08

21P	2011 06 26.20724	15 23 56.38	+15 24 08.8	32H06	
21P	2011 06 26.20965	15 23 56.28	+15 24 08.7	32H06	
21P	2011 06 26.21206	15 23 56.18	+15 24 08.8	18.8 T 32H06	
21P	2011 06 26.21975	15 23 55.78	+15 24 08.6	18.9 T H10	
21P	2011 06 26.23597	15 23 55.05	+15 24 08.6	18.9 T H10	
21P	2011 06 26.28204	15 23 53.03	+15 24 07.8	18.9 T H10	
21P	2011 06 26.90447	15 23 26.51	+15 24 05.5	18.9 N KC10	
21P	2011 06 26.92773	15 23 25.51	+15 24 06.4	18.5 N KC10	
21P	2011 06 26.93532	15 23 25.00	+15 24 05.5	19.3 T K 215	
21P	2011 06 26.93655	15 23 24.96	+15 24 05.8	19.1 T K 215	
21P	2011 06 26.93779	15 23 24.91	+15 24 05.9	18.8 T K 215	
21P	2011 06 27.99117	15 22 40.79	+15 23 49.4	19.0 N K 213	
21P	2011 06 28.02233	15 22 39.48	+15 23 48.5	19.0 N K 213	
21P	2011 06 28.05220	15 22 38.22	+15 23 47.6	19.0 N K 213	
21P	2011 06 28.91267	15 22 03.49	+15 23 23.0	18.8 N B51	
21P	2011 06 28.92846	15 22 02.92	+15 23 22.0	18.9 N B51	
21P	2011 07 01.92852	15 20 09.08	+15 20 22.9	18.4 N J24	
21P	2011 07 01.93708	15 20 08.71	+15 20 22.3	18.4 N J24	
21P	2011 07 01.94852	15 20 08.26	+15 20 21.6	18.3 N J24	
21P	2011 07 06.86938	15 17 29.20	+15 10 52.0	18.7 N KA77	
21P	2011 07 06.87403	15 17 29.03	+15 10 49.9	18.8 N KA77	
21P	2011 07 06.88334	15 17 28.63	+15 10 48.8	18.7 N KA77	
21P	2011 07 06.89259	15 17 28.54	+15 10 46.5	18.3 N KA77	

27P	2011 06 25.02770	03 35 53.08	+33 01 40.9	16.2 N	KA71
27P	2011 06 25.03470	03 35 55.45	+33 01 39.8	16.4 N	KA71
27P	2011 06 25.04175	03 35 58.16	+33 01 39.8	16.7 N	KA71
27P	2011 06 27.03177	03 47 31.44	+32 57 42.5	17.0 N	KA71
27P	2011 06 27.04070	03 47 34.40	+32 57 40.4	16.8 N	KA71
27P	2011 06 29.73322	04 03 29.37	+32 45 42.7	15.3 T	KD95
27P	2011 06 29.73542	04 03 30.18	+32 45 42.0		KD95
27P	2011 06 29.73761	04 03 30.96	+32 45 42.1		KD95
27P	2011 06 29.73980	04 03 31.77	+32 45 40.7		KD95
27P	2011 06 30.44219	04 07 43.69	+32 41 14.5		32H06
27P	2011 06 30.44459	04 07 44.54	+32 41 14.3		32H06
27P	2011 06 30.44698	04 07 45.35	+32 41 13.7		32H06
27P	2011 06 30.44999	04 07 46.45	+32 41 11.2	12.9 T	32H06
27P	2011 07 01.44646	04 13 45.51	+32 33 55.9		32H06
27P	2011 07 01.44886	04 13 46.35	+32 33 54.7		32H06
27P	2011 07 01.45126	04 13 47.20	+32 33 53.7	13.2 T	32H06
27P	2011 07 05.44613	04 38 02.88	+31 53 15.9		32H06
27P	2011 07 05.44735	04 38 03.15	+31 53 14.3		32H06
27P	2011 07 05.44855	04 38 03.62	+31 53 13.1		32H06
27P	2011 07 05.45095	04 38 04.53	+31 53 11.3	12.0 T	32H06
27P	2011 07 05.74582	04 39 52.82	+31 49 27.2	13.5 T	D95
27P	2011 07 05.74912	04 39 53.96	+31 49 24.5		D95
27P	2011 07 05.75134	04 39 54.95	+31 49 22.6		D95
27P	2011 07 05.76354	04 39 59.16	+31 49 12.8	11.7 T	372
27P	2011 07 05.77587	04 40 03.63	+31 49 03.3		372
27P	2011 07 07.03971	04 47 48.18	+31 31 47.4	16.0 N	KA71
27P	2011 07 07.04889	04 47 51.63	+31 31 38.9	15.4 N	KA71
27P	2011 07 07.05604	04 47 54.22	+31 31 32.9	16.2 N	KA71
27P	2011 07 07.06149	04 47 56.45	+31 31 27.4	16.3 N	KA71
27P	2011 07 07.44837	04 50 18.86	+31 25 48.8		32H06
27P	2011 07 07.45076	04 50 19.74	+31 25 46.9		32H06
27P	2011 07 07.45196	04 50 20.19	+31 25 45.3	11.9 T	32H06
27P	2011 07 08.45045	04 56 28.20	+31 10 17.5		32H06
27P	2011 07 08.45288	04 56 28.97	+31 10 15.2	12.1 T	32H06
27P	2011 07 09.75765	05 04 30.19	+30 48 13.2	15.1 N	KD88
27P	2011 07 09.76205	05 04 31.71	+30 48 09.5		KD88
27P	2011 07 10.74273	05 10 33.53	+30 30 15.7	12.3 T	D95
27P	2011 07 10.74711	05 10 35.17	+30 30 10.0		D95
27P	2011 07 10.74821	05 10 35.59	+30 30 08.8		D95
27P	2011 07 10.74931	05 10 35.97	+30 30 07.6		D95
27P	2011 07 10.77049	05 10 43.73	+30 29 45.1	10.8 T	372
27P	2011 07 10.77396	05 10 45.02	+30 29 41.3		372
27P	2011 07 10.77506	05 10 45.41	+30 29 39.2		K 367
27P	2011 07 10.77749	05 10 46.35	+30 29 36.4		K 367
27P	2011 07 10.77760	05 10 46.35	+30 29 36.9		372
27P	2011 07 10.77986	05 10 47.13	+30 29 34.9	10.9 T	372
27P	2011 07 10.77992	05 10 47.24	+30 29 33.9	12.2 T	K 367

27P/Crommelin					
27P	2011 06 12.43323	02 28 02.34	+32 04 35.3	32H06	
27P	2011 06 12.43683	02 28 03.34	+32 04 37.7	32H06	
27P	2011 06 12.44043	02 28 04.33	+32 04 39.8	16.0 T	32H06
27P	2011 06 13.03764	02 31 03.69	+32 09 58.8	17.4 N	KA71
27P	2011 06 13.05109	02 31 07.61	+32 10 07.3	17.8 N	KA71
27P	2011 06 13.09334	02 31 20.40	+32 10 29.9	17.6 N	KA77
27P	2011 06 13.09805	02 31 21.94	+32 10 32.5	17.6 N	KA77
27P	2011 06 14.43787	02 38 09.38	+32 21 47.3	32H06	
27P	2011 06 14.44266	02 38 10.83	+32 21 49.2	15.3 T	32H06
27P	2011 06 14.74027	02 39 42.33	+32 24 08.3	16.4 T	KD95
27P	2011 06 14.74246	02 39 42.91	+32 24 08.3		KD95
27P	2011 06 15.43789	02 43 18.10	+32 29 18.5		32H06
27P	2011 06 15.44029	02 43 18.87	+32 29 19.9	16.8 T	32H06
27P	2011 06 19.43984	03 04 34.00	+32 52 20.0		32H06
27P	2011 06 19.44345	03 04 35.21	+32 52 20.8	15.6 T	32H06
27P	2011 06 20.03365	03 07 48.47	+32 54 37.8	17.3 N	KA71
27P	2011 06 20.04965	03 07 53.95	+32 54 43.6	16.5 N	KA71
27P	2011 06 20.43782	03 10 01.63	+32 56 04.0		32H06
27P	2011 06 20.44143	03 10 02.82	+32 56 05.0		32H06
27P	2011 06 20.44503	03 10 04.01	+32 56 05.7	15.7 T	32H06
27P	2011 06 21.44186	03 15 34.97	+32 58 58.2		32H06
27P	2011 06 21.44487	03 15 35.96	+32 58 59.2		32H06
27P	2011 06 21.44788	03 15 36.95	+32 59 00.4	15.5 T	32H06
27P	2011 06 22.43502	03 21 08.07	+33 00 56.1		32H06
27P	2011 06 22.44921	03 21 12.88	+33 00 58.3	15.2 T	32H06
27P	2011 06 24.43950	03 32 30.47	+33 02 08.8		32H06
27P	2011 06 24.44311	03 32 31.71	+33 02 08.9		32H06
27P	2011 06 24.44672	03 32 32.93	+33 02 07.9	15.0 T	32H06

29P/Schwassmann-Wachmann					
29P	2011 05 02.01277	10 41 48.73	+01 32 38.3	17.9 N	I40
29P	2011 05 02.01503	10 41 48.72	+01 32 38.4	17.1 N	I40
29P	2011 05 02.01721	10 41 48.70	+01 32 38.6	16.7 N	I40
29P	2011 05 02.01943	10 41 48.70	+01 32 38.7	17.9 N	I40

29P	2011 05 02.02161	10 41 48.69	+01 32 38.8	17.1 N	I40	29P	2011 05 18.96702	10 41 59.64	+01 39 06.9	15.7 N	I40
29P	2011 05 02.02380	10 41 48.67	+01 32 39.0	16.6 N	I40	29P	2011 05 18.96859	10 41 59.63	+01 39 07.1	14.9 N	I40
29P	2011 05 02.02601	10 41 48.67	+01 32 39.0	17.9 N	I40	29P	2011 05 18.97020	10 41 59.65	+01 39 07.0	14.0 N	I40
29P	2011 05 02.02820	10 41 48.65	+01 32 39.2	17.1 N	I40	29P	2011 05 18.97184	10 41 59.65	+01 39 06.8	14.5 N	I40
29P	2011 05 06.08675	10 41 35.64	+01 35 38.0	16.0 N	I40	29P	2011 05 19.99470	10 42 05.71	+01 38 59.5	16.0 N	I40
29P	2011 05 06.08901	10 41 35.64	+01 35 38.2	15.2 N	I40	29P	2011 05 19.99627	10 42 05.72	+01 38 59.6	15.2 N	I40
29P	2011 05 06.09338	10 41 35.63	+01 35 38.4	14.3 N	I40	29P	2011 05 19.99776	10 42 05.72	+01 38 59.5	14.8 N	I40
29P	2011 05 06.09559	10 41 35.63	+01 35 38.4	16.0 N	I40	29P	2011 05 19.99926	10 42 05.72	+01 38 59.7	14.3 N	I40
29P	2011 05 06.10215	10 41 35.60	+01 35 38.8	14.3 N	I40	29P	2011 05 20.00076	10 42 05.74	+01 38 59.5	16.0 N	I40
29P	2011 05 06.10435	10 41 35.60	+01 35 38.8	16.0 N	I40	29P	2011 05 20.00226	10 42 05.74	+01 38 59.6	15.2 N	I40
29P	2011 05 06.10654	10 41 35.61	+01 35 38.9	15.1 N	I40	29P	2011 05 20.00375	10 42 05.75	+01 38 59.7	14.8 N	I40
29P	2011 05 09.98821	10 41 32.55	+01 37 39.9	16.6 N	I40	29P	2011 05 20.00524	10 42 05.75	+01 38 59.6	14.2 N	I40
29P	2011 05 09.98977	10 41 32.57	+01 37 39.9	15.8 N	I40	29P	2011 05 20.00675	10 42 05.77	+01 38 59.6	16.0 N	I40
29P	2011 05 09.99126	10 41 32.56	+01 37 40.0	15.4 N	I40	29P	2011 05 20.00825	10 42 05.77	+01 38 59.5	15.2 N	I40
29P	2011 05 09.99276	10 41 32.56	+01 37 40.1	14.8 N	I40	29P	2011 05 20.00974	10 42 05.79	+01 38 59.4	14.8 N	I40
29P	2011 05 09.99427	10 41 32.56	+01 37 40.0	16.6 N	I40	29P	2011 05 20.01123	10 42 05.80	+01 38 59.5	14.3 N	I40
29P	2011 05 09.99576	10 41 32.54	+01 37 40.0	15.8 N	I40	29P	2011 05 20.01274	10 42 05.82	+01 38 59.6	16.0 N	I40
29P	2011 05 09.99739	10 41 32.56	+01 37 40.2	15.4 N	I40	29P	2011 05 20.01423	10 42 05.82	+01 38 59.5	15.2 N	I40
29P	2011 05 09.99888	10 41 32.56	+01 37 40.2	14.8 N	I40	29P	2011 05 20.01573	10 42 05.82	+01 38 59.6	14.8 N	I40
29P	2011 05 10.00039	10 41 32.56	+01 37 40.3	16.6 N	I40	29P	2011 05 20.01722	10 42 05.84	+01 38 59.5	14.2 N	I40
29P	2011 05 10.00188	10 41 32.55	+01 37 40.3	15.8 N	I40	29P	2011 05 20.01873	10 42 05.85	+01 38 59.6	16.0 N	I40
29P	2011 05 10.00338	10 41 32.55	+01 37 40.3	15.4 N	I40	29P	2011 05 20.02022	10 42 05.85	+01 38 59.5	15.2 N	I40
29P	2011 05 10.00487	10 41 32.54	+01 37 40.2	14.8 N	I40	29P	2011 05 20.08029	10 42 06.20	+01 38 58.9	16.0 N	I40
29P	2011 05 16.95834	10 41 49.49	+01 39 10.8	15.3 N	I40	29P	2011 05 20.08185	10 42 06.21	+01 38 58.9	15.2 N	I40
29P	2011 05 16.95967	10 41 49.50	+01 39 10.9	14.5 N	I40	29P	2011 05 20.08334	10 42 06.21	+01 38 58.8	14.8 N	I40
29P	2011 05 16.96094	10 41 49.50	+01 39 10.9	13.6 N	I40	29P	2011 05 20.08484	10 42 06.22	+01 38 59.0	14.3 N	I40
29P	2011 05 16.96223	10 41 49.51	+01 39 11.0	14.1 N	I40	29P	2011 05 20.08635	10 42 06.22	+01 38 58.9	16.0 N	I40
29P	2011 05 16.96348	10 41 49.51	+01 39 10.8	14.1 N	I40	29P	2011 05 20.08784	10 42 06.24	+01 38 58.7	15.2 N	I40
29P	2011 05 16.96474	10 41 49.52	+01 39 10.8	14.1 N	I40	29P	2011 05 20.08933	10 42 06.25	+01 38 58.8	14.8 N	I40
29P	2011 05 16.96599	10 41 49.52	+01 39 10.9	14.1 N	I40	29P	2011 05 20.09083	10 42 06.26	+01 38 58.8	14.3 N	I40
29P	2011 05 16.96725	10 41 49.53	+01 39 11.0	14.1 N	I40	29P	2011 05 20.09234	10 42 06.26	+01 38 58.8	16.0 N	I40
29P	2011 05 16.96850	10 41 49.54	+01 39 10.8	14.1 N	I40	29P	2011 05 20.09383	10 42 06.26	+01 38 58.6	15.2 N	I40
29P	2011 05 16.96976	10 41 49.53	+01 39 10.9	14.1 N	I40	29P	2011 05 20.09532	10 42 06.28	+01 38 58.6	14.8 N	I40
29P	2011 05 16.97101	10 41 49.53	+01 39 10.9	14.1 N	I40	29P	2011 05 20.09681	10 42 06.28	+01 38 58.8	14.3 N	I40
29P	2011 05 16.97226	10 41 49.54	+01 39 11.0	14.1 N	I40	29P	2011 05 20.09833	10 42 06.30	+01 38 58.9	16.0 N	I40
29P	2011 05 18.04315	10 41 54.65	+01 39 10.2	15.6 N	I40	29P	2011 05 20.09982	10 42 06.30	+01 38 58.8	15.2 N	I40
29P	2011 05 18.04471	10 41 54.66	+01 39 10.3	14.7 N	I40	29P	2011 05 20.10131	10 42 06.33	+01 38 58.6	14.8 N	I40
29P	2011 05 18.04620	10 41 54.65	+01 39 10.4	14.3 N	I40	29P	2011 05 20.10280	10 42 06.33	+01 38 58.6	14.3 N	I40
29P	2011 05 18.04770	10 41 54.66	+01 39 10.4	13.8 N	I40	29P	2011 05 20.10431	10 42 06.34	+01 38 58.6	16.0 N	I40
29P	2011 05 18.04921	10 41 54.67	+01 39 10.5	15.5 N	I40	29P	2011 05 22.83274	10 42 25.64	+01 38 18.7		442
29P	2011 05 18.05070	10 41 54.68	+01 39 10.4	14.7 N	I40	29P	2011 05 22.83657	10 42 25.67	+01 38 19.1		442
29P	2011 05 18.05219	10 41 54.68	+01 39 10.3	14.3 N	I40	29P	2011 05 22.83791	10 42 25.65	+01 38 19.1		442
29P	2011 05 18.05368	10 41 54.70	+01 39 10.2	13.8 N	I40	29P	2011 05 22.84104	10 42 25.69	+01 38 19.1		442
29P	2011 05 18.05519	10 41 54.69	+01 39 10.3	15.5 N	I40	29P	2011 05 23.83131	10 42 33.76	+01 37 59.2		442
29P	2011 05 18.05668	10 41 54.72	+01 39 10.3	14.7 N	I40	29P	2011 05 23.83613	10 42 33.79	+01 37 59.4		442
29P	2011 05 18.05818	10 41 54.71	+01 39 10.4	14.3 N	I40	29P	2011 05 23.84018	10 42 33.84	+01 37 59.1		442
29P	2011 05 18.05967	10 41 54.71	+01 39 10.3	13.8 N	I40	29P	2011 06 04.49888	10 44 49.01	+01 29 53.3	11.9 T	349
29P	2011 05 18.06118	10 41 54.72	+01 39 10.1	15.6 N	I40	29P	2011 06 04.50981	10 44 49.19	+01 29 52.2		349
29P	2011 05 18.06267	10 41 54.73	+01 39 10.3	14.7 N	I40	29P	2011 06 11.99900	10 46 53.07	+01 20 41.4	16.3 N	I40
29P	2011 05 18.06416	10 41 54.75	+01 39 10.5	14.3 N	I40	29P	2011 06 12.00025	10 46 53.09	+01 20 41.3	15.4 N	I40
29P	2011 05 18.06565	10 41 54.75	+01 39 10.4	13.8 N	I40	29P	2011 06 12.00154	10 46 53.12	+01 20 41.1	15.9 N	I40
29P	2011 05 18.06717	10 41 54.75	+01 39 10.5	15.5 N	I40	29P	2011 06 12.00273	10 46 53.14	+01 20 41.2	15.9 N	I40
29P	2011 05 18.06866	10 41 54.76	+01 39 10.3	14.7 N	I40	29P	2011 06 12.00386	10 46 53.16	+01 20 40.8	15.9 N	I40

29P	2011 06 12.00500	10 46 53.17	+01 20 40.9	15.9 N	I40	30P	2011 06 25.23147	16 06 34.41	-12 31 18.4	19.1 T	G96	
29P	2011 06 12.00614	10 46 53.20	+01 20 40.9	15.9 N	I40	30P	2011 06 25.23900	16 06 34.30	-12 31 18.4	19.0 T	G96	
29P	2011 06 12.00728	10 46 53.21	+01 20 40.5	15.9 N	I40	30P	2011 06 25.24667	16 06 33.98	-12 31 17.3	19.9 T	G96	
29P	2011 06 12.98717	10 47 11.47	+01 19 14.8	16.4 N	I40	30P	2011 06 25.25428	16 06 33.73	-12 31 18.6	19.8 T	G96	
29P	2011 06 12.98831	10 47 11.50	+01 19 14.8	16.4 N	I40	31P/Schwassmann-Wachmann						
29P	2011 06 12.98946	10 47 11.52	+01 19 14.6	15.4 N	I40	31P	2011 06 13.16715	10 45 39.63	+12 01 04.1	19.3 T	G96	
29P	2011 06 12.99060	10 47 11.53	+01 19 14.6	15.4 N	I40	31P	2011 06 13.17403	10 45 39.99	+12 01 01.8	18.9 T	G96	
29P	2011 06 12.99177	10 47 11.56	+01 19 14.5	15.8 N	I40	31P	2011 06 13.18105	10 45 40.35	+12 00 59.3	19.4 T	G96	
29P	2011 06 12.99291	10 47 11.58	+01 19 14.4	15.9 N	I40	31P	2011 06 13.18810	10 45 40.64	+12 00 57.4	19.4 T	G96	
29P	2011 06 12.99405	10 47 11.60	+01 19 14.3	16.0 N	I40	36P/Whipple						
29P	2011 06 12.99519	10 47 11.63	+01 19 14.1	15.9 N	I40	36P	2011 07 05.10171	00 22 53.75	+05 14 24.8	18.9 N	KA77	
29P	2011 06 12.99633	10 47 11.64	+01 19 14.2	16.0 N	I40	36P	2011 07 05.11101	00 22 53.88	+05 14 26.1	18.6 N	KA77	
29P	2011 06 12.99747	10 47 11.66	+01 19 13.9	16.0 N	I40	37P/Forbes						
29P	2011 06 12.99861	10 47 11.69	+01 19 14.0	16.0 N	I40	37P	2011 06 24.88045	11 31 36.97	-06 31 52.3	17.4 N	J24	
29P	2011 06 12.99975	10 47 11.70	+01 19 13.8	16.0 N	I40	37P	2011 06 24.88780	11 31 37.52	-06 31 54.3	17.5 N	J24	
29P	2011 06 13.00088	10 47 11.72	+01 19 13.8	16.0 N	I40	37P	2011 06 24.89366	11 31 37.80	-06 31 56.0	17.5 N	J24	
29P	2011 06 13.00202	10 47 11.75	+01 19 13.6	16.0 N	I40	43P/Wolf-Harrington						
29P	2011 06 13.00316	10 47 11.77	+01 19 13.5	16.0 N	I40	43P	2011 05 18.10348	12 20 03.46	-18 40 59.2	18.6 N	I40	
29P	2011 06 13.00430	10 47 11.78	+01 19 13.3	16.0 N	I40	43P	2011 05 18.10498	12 20 03.44	-18 40 58.7	18.3 N	I40	
29P	2011 06 13.00544	10 47 11.82	+01 19 13.3	16.0 N	I40	43P	2011 05 18.10647	12 20 03.41	-18 40 57.3	18.2 N	I40	
29P	2011 06 13.00658	10 47 11.83	+01 19 13.1	15.9 N	I40	43P	2011 05 18.10947	12 20 03.41	-18 40 56.2	18.8 N	I40	
29P	2011 06 13.00772	10 47 11.84	+01 19 13.1	16.0 N	I40	43P	2011 05 18.11096	12 20 03.46	-18 40 55.4	18.2 N	I40	
29P	2011 06 13.00886	10 47 11.87	+01 19 12.9	16.0 N	I40	43P	2011 05 18.11246	12 20 03.36	-18 40 54.8	18.0 N	I40	
29P	2011 06 13.01000	10 47 11.90	+01 19 12.8	16.0 N	I40	43P	2011 05 18.11546	12 20 03.38	-18 40 53.2	18.6 N	I40	
29P	2011 06 13.01114	10 47 11.92	+01 19 12.7	16.0 N	I40	43P	2011 05 18.11695	12 20 03.38	-18 40 52.9	18.3 N	I40	
29P	2011 06 13.01228	10 47 11.93	+01 19 12.6	16.0 N	I40	43P	2011 05 18.11844	12 20 03.34	-18 40 52.4	17.8 N	I40	
29P	2011 06 13.01342	10 47 11.97	+01 19 12.5	15.9 N	I40	43P	2011 06 26.44107	12 29 55.28	-15 33 12.0	20.4 N	KE07	
29P	2011 06 14.87039	10 47 47.83	+01 16 20.7	16.4 N	K 958	43P	2011 06 26.44949	12 29 55.63	-15 33 13.3	20.4 N	KE07	
29P	2011 06 14.88187	10 47 47.88	+01 16 17.1	16.4 N	K 958	45P/Honda-Mrkos-Pajdušáková						
29P	2011 06 14.89336	10 47 48.29	+01 16 16.6	16.4 N	K 958	45P	2011 06 30.02256	21 34 14.11	-18 51 27.9	18.5 N	KA77	
29P	2011 06 19.51095	10 49 24.21	+01 08 26.3	15.3 T	D95	45P	2011 06 30.03795	21 34 14.88	-18 51 32.2	18.2 N	KA77	
29P	2011 06 19.51470	10 49 24.28	+01 08 25.3		D95	45P	2011 06 30.05334	21 34 15.53	-18 51 34.7	18.1 N	KA77	
29P	2011 06 20.87488	10 49 54.44	+01 05 54.5	16.2 N	K 958	45P	2011 06 30.34221	21 34 29.22	-18 52 47.0	18.2 T	H10	
29P	2011 06 20.88670	10 49 54.53	+01 05 52.3	16.3 N	K 958	45P	2011 06 30.35644	21 34 29.86	-18 52 51.2	18.2 T	H10	
29P	2011 06 20.89811	10 49 54.92	+01 05 51.8	16.3 N	K 958	45P	2011 06 30.39639	21 34 31.67	-18 53 02.6	18.2 T	H10	
29P	2011 06 23.43653	10 50 53.05	+01 00 53.7	15.4 N	30D90	45P	2011 06 30.40121	21 34 31.80	-18 53 03.0	19.5 T	704	
29P	2011 06 23.43961	10 50 53.11	+01 00 53.6	15.4 N	30D90	45P	2011 06 30.41202	21 34 32.13	-18 53 04.6	19.5 T	704	
29P	2011 06 23.44270	10 50 53.20	+01 00 53.1	15.4 N	30D90	45P	2011 06 30.42291	21 34 32.65	-18 53 08.4	19.5 T	704	
29P	2011 06 24.87618	10 51 27.20	+00 57 52.8	16.6 N	K 958	45P	2011 06 30.43405	21 34 33.11	-18 53 11.5	19.3 T	704	
29P	2011 06 24.88759	10 51 27.44	+00 57 51.1	16.9 N	K 958	45P	2011 07 01.34044	21 35 15.90	-18 57 15.6	18.0 N	KH10	
29P	2011 06 24.89891	10 51 27.94	+00 57 53.8	16.7 N	K 958	45P	2011 07 01.37228	21 35 17.30	-18 57 25.2	18.0 N	KH10	
29P	2011 06 29.42339	10 53 20.72	+00 47 55.4	13.8 N	D96	45P	2011 07 01.38049	21 35 17.72	-18 57 27.9	18.9 T	G92	
29P	2011 06 29.44524	10 53 21.22	+00 47 53.5	13.7 N	D96	45P	2011 07 01.39161	21 35 18.17	-18 57 30.9	18.7 T	G92	
29P	2011 06 29.49965	10 53 22.78	+00 47 44.1	13.0 T	372	45P	2011 07 01.40268	21 35 18.73	-18 57 34.3	18.7 T	G92	
29P	2011 06 29.50451	10 53 22.89	+00 47 42.5		372	45P	2011 07 01.41378	21 35 19.14	-18 57 36.8	18.6 T	G92	
29P	2011 06 30.15186	10 53 39.67	+00 46 12.9		32H06	45P	2011 07 02.02436	21 35 47.71	-19 00 35.3	18.2 N	KC10	
29P	2011 06 30.15307	10 53 39.72	+00 46 13.0		32H06	45P	2011 07 02.04612	21 35 48.71	-19 00 41.8	17.9 N	KC10	
29P	2011 06 30.15428	10 53 39.75	+00 46 12.7		32H06	45P	2011 07 03.00923	21 36 33.23	-19 05 39.9	18.9 N	KC10	
29P	2011 06 30.15549	10 53 39.75	+00 46 12.3	11.6 T	32H06	45P	2011 07 03.01875	21 36 33.43	-19 05 43.7	18.9 N	KC10	
30P/Reinmuth							45P	2011 07 03.40668	21 36 51.22	-19 07 48.9	17.9 T	703
30P	2011 06 01.08519	16 23 23.20	-12 26 49.0	20.0 T	J04	45P	2011 07 03.41411	21 36 51.58	-19 07 51.4	17.7 T	703	
30P	2011 06 01.10661	16 23 22.15	-12 26 48.1	20.8 T	J04							

45P	2011 07 03.42171	21 36 51.87	-19 07 53.2	18.1 T	703	48P	2011 06 25.01730	20 43 17.17	-16 59 09.9	17.1 N	K 199
45P	2011 07 03.42931	21 36 52.23	-19 07 55.5	18.0 T	703	48P	2011 06 25.02314	20 43 17.27	-16 59 11.9	16.8 N	K 199
45P	2011 07 04.00934	21 37 19.09	-19 11 15.8	18.2 N	K C10	48P	2011 06 25.03094	20 43 17.18	-16 59 16.1	16.1 N	K 199
45P	2011 07 04.03261	21 37 19.99	-19 11 22.4	18.1 N	K C10	48P	2011 06 25.35582	20 43 15.41	-17 01 33.7	16.4 T	691
45P	2011 07 05.02280	21 38 05.06	-19 17 21.6	18.3 N	K C10	48P	2011 06 25.37358	20 43 15.30	-17 01 41.0	16.4 T	691
45P	2011 07 05.04128	21 38 05.83	-19 17 28.4	18.4 N	K C10	48P	2011 06 25.39135	20 43 15.14	-17 01 48.8	16.3 T	691
45P	2011 07 05.35182	21 38 19.95	-19 19 26.3		32H06	48P	2011 06 25.40993	20 43 15.10	-17 01 57.5	16.1 N	H47
45P	2011 07 05.35422	21 38 20.05	-19 19 27.1		32H06	48P	2011 06 25.41792	20 43 15.06	-17 02 01.0	16.4 N	H47
45P	2011 07 05.35663	21 38 20.16	-19 19 27.8	17.5 T	32H06	48P	2011 06 25.42559	20 43 15.03	-17 02 04.8	16.4 N	H47
45P	2011 07 06.02842	21 38 50.48	-19 23 55.8	18.0 T	B51	48P	2011 06 26.09354	20 43 11.41	-17 06 55.4	16.1 N	J38
45P	2011 07 06.04935	21 38 51.33	-19 24 03.7	18.3 T	B51	48P	2011 06 26.10209	20 43 11.35	-17 06 59.0	16.1 N	J38
45P	2011 07 09.01992	21 41 04.32	-19 46 39.3	17.4 T	B51	48P	2011 06 26.10779	20 43 11.31	-17 07 01.7	16.1 N	J38
45P	2011 07 09.04211	21 41 05.19	-19 46 50.2	17.6 T	B51	48P	2011 06 26.40740	20 43 09.29	-17 09 13.1	16.3 N	H47
						48P	2011 06 26.41312	20 43 09.23	-17 09 15.4	16.2 N	H47
						48P	2011 06 26.41785	20 43 09.19	-17 09 17.6	16.3 N	H47
						48P	2011 06 26.42295	20 43 09.15	-17 09 19.6	16.0 N	H47
						48P	2011 06 27.01459	20 43 05.24	-17 13 43.9	15.9 N	C09
						48P	2011 06 27.02087	20 43 05.16	-17 13 47.0	16.0 N	C10
						48P	2011 06 27.02163	20 43 05.18	-17 13 47.2	15.9 N	C09
						48P	2011 06 27.02867	20 43 05.12	-17 13 50.1	15.8 N	C09
						48P	2011 06 27.03485	20 43 05.05	-17 13 53.3	15.9 N	C10
						48P	2011 06 27.03571	20 43 05.06	-17 13 53.2	15.5 N	C09
						48P	2011 06 27.04700	20 43 04.93	-17 13 58.7	15.8 N	C10
						48P	2011 06 27.35412	20 43 02.59	-17 16 16.3	16.0 N	H10
						48P	2011 06 27.35793	20 43 02.54	-17 16 18.0	15.9 N	H10
						48P	2011 06 30.07188	20 42 35.49	-17 37 27.6	15.5 N	K 958
						48P	2011 06 30.08284	20 42 35.31	-17 37 30.7	15.4 N	K 958
						48P	2011 06 30.99462	20 42 23.90	-17 44 53.8	16.0 N	C10
						48P	2011 07 01.00723	20 42 23.72	-17 45 00.1	15.9 N	C10
						48P	2011 07 01.01347	20 42 23.68	-17 45 03.0	15.9 N	J38
						48P	2011 07 01.01504	20 42 23.64	-17 45 03.8	16.0 N	J38
						48P	2011 07 01.03985	20 42 23.22	-17 45 16.0	16.1 N	K 958
						48P	2011 07 01.05058	20 42 23.08	-17 45 21.8	16.0 N	K 958
						48P	2011 07 01.06149	20 42 22.98	-17 45 26.6	16.2 N	K 958
						48P	2011 07 01.33649	20 42 19.15	-17 47 40.8	15.6 T	703
						48P	2011 07 01.34340	20 42 19.04	-17 47 44.4	15.6 T	703
						48P	2011 07 01.35029	20 42 18.93	-17 47 47.5	15.6 T	703
						48P	2011 07 01.35713	20 42 18.79	-17 47 51.0	15.5 T	703
						48P	2011 07 01.98383	20 42 10.11	-17 53 03.7	15.9 N	C10
						48P	2011 07 02.00295	20 42 09.80	-17 53 13.6	15.8 N	C10
						48P	2011 07 02.01682	20 42 09.56	-17 53 20.7	15.8 N	C10
						48P	2011 07 02.10810	20 42 08.05	-17 54 06.2	15.9 N	C09
						48P	2011 07 02.11161	20 42 08.01	-17 54 07.9	15.9 N	C09
						48P	2011 07 02.11513	20 42 07.95	-17 54 09.9	15.9 N	C09
						48P	2011 07 02.11865	20 42 07.87	-17 54 11.4	16.0 N	C09
						48P	2011 07 02.13936	20 42 07.63	-17 54 21.6	15.9 N	J24
						48P	2011 07 02.14803	20 42 07.48	-17 54 26.1	15.9 N	J24
						48P	2011 07 02.15454	20 42 07.37	-17 54 29.3	15.9 N	J24
						48P	2011 07 02.96355	20 41 55.09	-18 01 18.8	15.9 N	C10
						48P	2011 07 02.97138	20 41 54.95	-18 01 23.2	15.8 N	C10
						48P	2011 07 02.98072	20 41 54.79	-18 01 28.1	15.8 N	C10
						48P	2011 07 07.36538	20 40 31.41	-18 40 12.1	16.0 N	H47
						48P	2011 07 07.37104	20 40 31.28	-18 40 15.2	16.0 N	H47

48P/Johnson

78P	2011 07 02.39080	23 41 02.43	+04 45 55.2	15.9 T	703	103P	2011 05 01.99813	08 28 21.49	+05 11 34.9	18.2 N	I40
78P	2011 07 02.39601	23 41 02.76	+04 45 57.0	15.9 T	703	103P	2011 05 02.00031	08 28 21.67	+05 11 35.2	17.9 N	I40
78P	2011 07 02.40120	23 41 02.94	+04 45 58.1	18.7 T	704	103P	2011 05 02.00253	08 28 21.82	+05 11 35.3	18.9 N	I40
78P	2011 07 02.40126	23 41 03.01	+04 45 59.6	15.9 T	703	103P	2011 05 02.00472	08 28 22.02	+05 11 35.3	18.2 N	I40
78P	2011 07 02.41147	23 41 03.46	+04 46 03.2	17.4 T	704	103P	2011 05 02.00691	08 28 22.21	+05 11 35.1	17.9 N	I40
78P	2011 07 04.04545	23 42 25.76	+04 56 47.7	15.8 N	C10	103P	2011 05 06.06917	08 33 54.93	+05 14 21.0	18.2 N	I40
78P	2011 07 04.05433	23 42 26.18	+04 56 51.2	15.8 N	C10	103P	2011 05 06.07135	08 33 55.14	+05 14 21.4	18.0 N	I40
78P	2011 07 04.06493	23 42 26.72	+04 56 55.3	16.0 N	C10	103P	2011 05 06.07354	08 33 55.29	+05 14 21.4	17.5 N	I40
78P	2011 07 04.07088	23 42 27.01	+04 56 57.6	15.9 N	C10	103P	2011 05 06.07793	08 33 55.64	+05 14 22.2	18.3 N	I40
78P	2011 07 05.07600	23 43 16.57	+05 03 27.8	15.9 N	A77	103P	2011 05 06.08012	08 33 55.82	+05 14 21.7	18.0 N	I40
78P	2011 07 05.07910	23 43 16.73	+05 03 29.1	15.9 N	A77	103P	2011 05 06.08231	08 33 56.01	+05 14 21.5	17.4 N	I40
78P	2011 07 05.08220	23 43 16.85	+05 03 30.1	15.9 N	A77	103P	2011 05 13.97278	08 44 47.57	+05 13 46.2	18.1 N	I40
78P	2011 07 05.44082	23 43 34.37	+05 05 48.9	16.7 T	G68	103P	2011 05 13.97404	08 44 47.66	+05 13 46.2	18.1 N	I40
78P	2011 07 05.44314	23 43 34.51	+05 05 49.7	16.7 T	G68	103P	2011 05 13.97529	08 44 47.77	+05 13 46.2	18.1 N	I40
78P	2011 07 05.44545	23 43 34.59	+05 05 50.1	16.7 T	G68	103P	2011 05 13.97662	08 44 47.87	+05 13 46.3	18.0 N	I40
78P	2011 07 06.05015	23 44 03.77	+05 09 40.7	16.2 N	C09	103P	2011 05 13.97788	08 44 47.97	+05 13 46.1	18.1 N	I40
78P	2011 07 06.05718	23 44 04.07	+05 09 42.6	16.3 N	C09	103P	2011 05 13.97788	08 44 47.97	+05 13 46.1	18.1 N	I40
78P	2011 07 06.06772	23 44 04.64	+05 09 48.2	16.3 N	C09	103P	2011 05 13.97914	08 44 48.08	+05 13 46.0	18.2 N	I40
78P	2011 07 09.39040	23 46 39.68	+05 30 19.5	15.9 T	H45	103P	2011 05 13.98043	08 44 48.18	+05 13 46.0	18.3 N	I40
78P	2011 07 09.39425	23 46 39.88	+05 30 21.0	15.9 T	H45	103P	2011 05 13.98168	08 44 48.25	+05 13 46.1	18.3 N	I40
78P	2011 07 09.39570	23 46 39.93	+05 30 21.5	15.8 T	H45	103P	2011 05 13.98294	08 44 48.37	+05 13 46.6	18.2 N	I40
78P	2011 07 09.39753	23 46 40.02	+05 30 22.2	15.9 T	H45	103P	2011 05 13.98419	08 44 48.49	+05 13 46.0	18.2 N	I40
78P	2011 07 09.39968	23 46 40.11	+05 30 22.9	15.9 T	H45	103P	2011 05 17.98953	08 50 20.67	+05 10 41.0	19.1 N	I40
78P	2011 07 09.40144	23 46 40.18	+05 30 23.6	15.9 T	H45	103P	2011 05 17.99109	08 50 20.77	+05 10 40.5	18.5 N	I40
81P/Wild						103P	2011 05 17.99259	08 50 20.89	+05 10 40.4	18.0 N	I40
81P	2011 06 25.36238	21 42 45.43	-13 25 54.7	19.0 T	G96	103P	2011 05 17.99408	08 50 21.00	+05 10 40.0	17.6 N	I40
81P	2011 06 25.37113	21 42 45.25	-13 25 55.6	18.6 T	G96	103P	2011 05 17.99709	08 50 21.25	+05 10 39.2	18.6 N	I40
81P	2011 06 25.37993	21 42 45.00	-13 25 56.4	18.6 T	G96	103P	2011 05 17.99858	08 50 21.39	+05 10 40.1	18.1 N	I40
81P	2011 06 25.38869	21 42 44.92	-13 25 56.8	18.3 T	G96	103P	2011 05 18.00007	08 50 21.52	+05 10 39.8	17.6 N	I40
81P	2011 06 28.03493	21 41 48.12	-13 31 45.6	18.7 T	K 215	103P	2011 05 18.00307	08 50 21.77	+05 10 40.2	19.0 N	I40
81P	2011 06 28.03581	21 41 48.04	-13 31 47.9	18.1 T	K 215	103P	2011 05 18.00456	08 50 21.88	+05 10 39.2	18.2 N	I40
81P	2011 06 28.03669	21 41 48.01	-13 31 47.8	17.6 T	K 215	103P	2011 05 18.00606	08 50 22.02	+05 10 39.0	17.1 N	I40
81P	2011 06 30.01486	21 41 01.13	-13 36 30.2	17.7 N	KA77	103P	2011 05 18.01055	08 50 22.37	+05 10 39.6	17.5 N	I40
81P	2011 06 30.03025	21 41 00.72	-13 36 32.5	17.7 N	KA77	103P	2011 05 20.02550	08 53 09.63	+05 08 25.6	18.5 N	I40
81P	2011 06 30.04564	21 41 00.33	-13 36 35.4	18.7 N	KA77	103P	2011 05 20.02699	08 53 09.78	+05 08 25.6	18.1 N	I40
81P	2011 07 05.36228	21 38 35.67	-13 50 47.8		32H06	103P	2011 05 20.02848	08 53 09.89	+05 08 26.0	17.8 N	I40
81P	2011 07 05.36608	21 38 35.60	-13 50 48.6	17.8 T	32H06	103P	2011 05 20.03149	08 53 10.10	+05 08 25.1	18.7 N	I40
88P/Howell						103P	2011 05 20.03298	08 53 10.30	+05 08 25.0	18.3 N	I40
88P	2010 11 10.41801	04 47 45.81	+23 24 25.8	16.9 T	G96	103P	2011 05 20.03598	08 53 10.47	+05 08 24.7	19.0 N	I40
88P	2010 11 10.42436	04 47 45.49	+23 24 25.7	16.9 T	G96	103P	2011 05 20.03897	08 53 10.77	+05 08 24.1	18.3 N	I40
88P	2010 11 10.43076	04 47 45.13	+23 24 25.2	16.9 T	G96	103P	2011 05 20.04046	08 53 10.85	+05 08 24.5	17.8 N	I40
88P	2010 11 10.43719	04 47 44.84	+23 24 25.2	17.0 T	G96	103P	2011 05 20.04197	08 53 10.95	+05 08 24.8	19.2 N	I40
88P	2010 12 08.31204	04 20 28.60	+22 49 28.2	17.6 T	G96	103P	2011 05 20.04496	08 53 11.23	+05 08 24.0	18.3 N	I40
88P	2010 12 08.31876	04 20 28.21	+22 49 27.6	17.7 T	G96	103P	2011 06 11.96926	09 24 53.86	+04 15 21.5	19.2 N	I40
88P	2010 12 08.32556	04 20 27.81	+22 49 26.8	17.9 T	G96	103P	2011 06 11.97167	09 24 54.08	+04 15 21.0	18.4 N	I40
88P	2010 12 08.33229	04 20 27.42	+22 49 26.0	17.5 T	G96	103P	2011 06 11.97281	09 24 54.17	+04 15 20.6	18.4 N	I40
103P/Hartley						103P	2011 06 11.97395	09 24 54.26	+04 15 19.8	17.9 N	I40
103P	2011 05 01.98928	08 28 20.78	+05 11 34.5	18.9 N	I40	103P	2011 06 11.97626	09 24 54.48	+04 15 20.1	18.6 N	I40
103P	2011 05 01.99154	08 28 20.96	+05 11 34.4	18.1 N	I40	103P	2011 06 11.97740	09 24 54.55	+04 15 19.4	18.7 N	I40
103P	2011 05 01.99373	08 28 21.13	+05 11 34.5	17.9 N	I40	103P	2011 06 11.97855	09 24 54.66	+04 15 19.3	18.6 N	I40
103P	2011 05 01.99594	08 28 21.32	+05 11 34.7	19.0 N	I40	103P	2011 06 11.97980	09 24 54.73	+04 15 19.2	17.8 N	I40

113P/Spitaler							115P						
113P	2007 09 19.34168	00 25 19.60	+00 29 44.5	18.7 N	7 705	115P	2011 06 09.96236	16 19 45.81	-01 24 25.6	17.5 N	585		
113P	2007 09 19.34251	00 25 19.56	+00 29 44.4	18.9 N	7 705	115P	2011 06 09.96446	16 19 45.73	-01 24 25.3	17.5 N	585		
113P	2007 09 19.34500	00 25 19.45	+00 29 44.1	18.5 N	7 705	115P	2011 06 09.96866	16 19 45.58	-01 24 25.1	17.6 N	585		
113P	2007 09 22.32066	00 23 05.38	+00 23 01.6	18.5 N	7 705	115P	2011 06 09.97075	16 19 45.47	-01 24 25.0	17.4 N	585		
113P	2007 09 22.32151	00 23 05.34	+00 23 01.5	18.7 N	7 705	115P	2011 06 09.97285	16 19 45.40	-01 24 24.6	17.4 N	585		
113P	2007 09 22.32398	00 23 05.22	+00 23 01.2	18.2 N	7 705	115P	2011 06 09.97494	16 19 45.34	-01 24 24.6	17.4 N	585		
113P	2007 10 12.32684	00 07 10.12	-00 20 25.7	18.8 N	7 705	115P	2011 06 09.97704	16 19 45.25	-01 24 24.2	17.7 N	585		
113P	2007 10 12.32768	00 07 10.08	-00 20 25.8	18.9 N	7 705	115P	2011 06 09.97913	16 19 45.20	-01 24 24.3	17.5 N	585		
113P	2007 10 12.33017	00 07 09.97	-00 20 26.1	18.5 N	7 705	115P	2011 06 09.98124	16 19 45.09	-01 24 23.1	17.4 N	585		
113P	2007 10 14.32635	00 05 41.30	-00 23 36.2	18.7 N	7 705	115P	2011 06 09.98334	16 19 45.01	-01 24 22.9	17.4 N	585		
113P	2007 10 14.32718	00 05 41.26	-00 23 36.3	18.9 N	7 705	115P	2011 06 09.98963	16 19 44.77	-01 24 22.2	17.4 N	585		
113P	2007 10 14.32967	00 05 41.15	-00 23 36.5	18.3 N	7 705	115P	2011 06 09.99383	16 19 44.63	-01 24 21.6	17.1 N	585		
113P	2007 10 20.30774	00 01 37.28	-00 30 38.2	18.8 N	7 705	115P	2011 06 09.99593	16 19 44.53	-01 24 20.7	17.3 N	585		
113P	2007 10 20.30856	00 01 37.24	-00 30 38.2	18.9 N	7 705	115P	2011 06 10.00012	16 19 44.42	-01 24 20.2	17.2 N	585		
113P	2007 10 20.31105	00 01 37.16	-00 30 38.3	18.6 N	7 705	115P	2011 06 10.00221	16 19 44.33	-01 24 19.8	17.3 N	585		
113P	2007 10 30.23210	23 56 27.72	-00 32 22.2	19.5 N	7 705	115P	2011 06 10.00641	16 19 44.16	-01 24 19.1	17.6 N	585		
113P	2007 10 30.23294	23 56 27.70	-00 32 22.2	19.5 N	7 705	115P	2011 06 10.00851	16 19 44.04	-01 24 18.9	17.1 N	585		
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113P	2007 11 01.29040	23 55 41.14	-00 30 58.5	19.1 N	7 705	115P	2011 06 11.92133	16 18 34.93	-01 19 48.5	17.0 N	585		
113P	2007 11 02.22514	23 55 22.34	-00 30 08.0	19.3 N	7 705	115P	2011 06 11.92345	16 18 34.89	-01 19 48.2	17.2 N	585		
113P	2007 11 02.22597	23 55 22.32	-00 30 08.0	19.3 N	7 705	115P	2011 06 11.92345	16 18 34.89	-01 19 48.2	17.2 N	585		
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113P	2007 11 02.22846	23 55 22.27	-00 30 07.8	19.0 N	7 705	115P	2011 06 11.92976	16 18 34.63	-01 19 47.3	17.1 N	585		
113P	2007 11 07.18377	23 54 05.95	-00 23 22.8	19.2 N	7 705	115P	2011 06 11.93411	16 18 34.46	-01 19 46.5	17.1 N	585		
113P	2007 11 07.18459	23 54 05.94	-00 23 22.8	19.3 N	7 705	115P	2011 06 11.94469	16 18 34.06	-01 19 45.2	17.0 N	585		
113P	2007 11 07.18708	23 54 05.91	-00 23 22.5	18.8 N	7 705	115P	2011 06 11.94689	16 18 34.01	-01 19 45.1	17.0 N	585		
113P	2007 11 09.22429	23 53 46.46	-00 19 27.7	19.2 N	7 705	115P	2011 06 11.94689	16 18 34.01	-01 19 45.1	17.0 N	585		
113P	2007 11 09.22512	23 53 46.45	-00 19 27.6	19.4 N	7 705	115P	2011 06 11.95111	16 18 33.85	-01 19 44.7	16.9 N	585		
113P	2007 11 09.22761	23 53 46.41	-00 19 27.1	19.8 N	7 705	115P	2011 06 11.96475	16 18 33.31	-01 19 43.1	17.4 N	585		
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						115P	2011 06 17.96266	16 15 13.42	-01 11 38.0	17.5 N	K 199		
						115P	2011 06 17.97000	16 15 13.16	-01 11 37.9	16.7 N	K 199		
						115P	2011 06 17.97734	16 15 13.03	-01 11 37.7	17.5 N	K 199		
						115P	2011 06 18.04352	16 15 10.85	-01 11 35.0	16.9 N	J24		
						115P	2011 06 18.06065	16 15 10.36	-01 11 33.5	17.0 N	J24		
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						115P	2011 06 19.89880	16 14 15.79	-01 11 00.7	17.3 N	A71		
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						115P	2011 06 19.90456	16 14 15.60	-01 11 00.3	17.4 N	A71		
						115P	2011 06 19.90744	16 14 15.54	-01 11 00.6	17.3 N	A71		
						115P	2011 06 19.91034	16 14 15.48	-01 11 00.7	17.1 N	A71		
						115P	2011 06 19.91322	16 14 15.33	-01 11 00.9	17.4 N	A71		

115P	2011 06 19.95577	16 14 14.07	-01 11 00.1	17.1 N	K 130	115P	2011 06 27.95988	16 11 02.18	-01 18 39.9	17.0 T	K 215
115P	2011 06 19.95978	16 14 13.97	-01 11 00.1	17.4 N	K 130	115P	2011 06 27.96093	16 11 02.15	-01 18 40.0	16.9 T	K 215
115P	2011 06 19.96379	16 14 13.82	-01 11 00.0	17.2 N	K 130	115P	2011 06 27.96199	16 11 02.13	-01 18 40.2	16.8 T	K 215
115P	2011 06 19.96780	16 14 13.70	-01 11 00.3	17.3 N	K 130	115P	2011 06 30.87770	16 10 13.99	-01 25 25.3	16.9 N	B51
115P	2011 06 19.99367	16 14 12.99	-01 10 59.6	17.2 N	J38	115P	2011 06 30.89495	16 10 13.70	-01 25 28.1	16.9 N	B51
115P	2011 06 19.99617	16 14 12.93	-01 10 59.6	17.2 N	J38	115P	2011 06 30.90673	16 10 13.51	-01 25 30.1	16.9 N	B51
115P	2011 06 19.99867	16 14 12.84	-01 10 59.6	17.3 N	J38	115P	2011 06 30.97007	16 10 12.52	-01 25 40.9	16.9 N	K 958
115P	2011 06 20.01970	16 14 12.15	-01 11 00.1	17.2 N	K 958	115P	2011 06 30.97653	16 10 12.47	-01 25 41.8	17.1 N	J38
115P	2011 06 20.03118	16 14 11.72	-01 10 59.7	17.3 N	K 958	115P	2011 06 30.98024	16 10 12.35	-01 25 42.4	17.1 N	K 958
115P	2011 06 20.04223	16 14 11.46	-01 10 59.9	17.1 N	K 958	115P	2011 06 30.98153	16 10 12.36	-01 25 42.6	17.0 N	J38
115P	2011 06 20.91816	16 13 46.95	-01 11 03.0	17.1 N	B51	115P	2011 06 30.98652	16 10 12.28	-01 25 43.3	17.1 N	J38
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115P	2011 06 23.88305	16 12 30.08	-01 12 43.2	17.8 N	K I99	115P	2011 07 01.88163	16 10 00.31	-01 28 13.7	16.9 N	C09
115P	2011 06 23.89178	16 12 29.83	-01 12 43.6	17.2 N	K I99	115P	2011 07 01.88866	16 10 00.22	-01 28 15.3	16.8 N	C09
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115P	2011 06 24.07097	16 12 25.21	-01 12 53.4	17.0 N	J24	115P	2011 07 01.90271	16 10 00.00	-01 28 17.9	16.8 N	C09
115P	2011 06 24.08163	16 12 24.90	-01 12 53.1	17.0 N	J24	115P	2011 07 01.91473	16 09 59.84	-01 28 20.2	16.7 N	C10
115P	2011 06 24.09229	16 12 24.61	-01 12 53.9	17.1 N	J24	115P	2011 07 01.93087	16 09 59.60	-01 28 22.6	16.6 N	C10
115P	2011 06 24.97072	16 12 04.39	-01 13 53.6	17.0 N	J38	115P	2011 07 01.93523	16 09 59.50	-01 28 24.4	17.3 N	C23
115P	2011 06 24.98216	16 12 04.11	-01 13 55.3	17.0 N	J38	115P	2011 07 01.93875	16 09 59.49	-01 28 24.4	17.2 N	C23
115P	2011 06 24.98502	16 12 04.00	-01 13 55.5	17.0 N	J38	115P	2011 07 01.94228	16 09 59.42	-01 28 25.7	17.1 N	C23
115P	2011 06 24.99354	16 12 03.75	-01 13 56.2	17.0 N	K 958	115P	2011 07 01.97117	16 09 59.06	-01 28 28.7	16.9 N	J38
115P	2011 06 25.00502	16 12 03.61	-01 13 58.2	16.9 N	K 958	115P	2011 07 01.97978	16 09 58.95	-01 28 31.1	17.0 N	J38
115P	2011 06 25.01651	16 12 03.22	-01 13 58.1	17.0 N	K 958	115P	2011 07 01.98193	16 09 58.90	-01 28 31.6	17.0 N	J38
115P	2011 06 25.22034	16 11 58.64	-01 14 11.9	17.1 N	KH47	115P	2011 07 01.99072	16 09 58.78	-01 28 31.7	16.8 N	J24
115P	2011 06 25.23270	16 11 58.37	-01 14 13.0	17.2 N	KH47	115P	2011 07 01.99689	16 09 58.75	-01 28 35.7	16.9 N	C23
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115P	2011 06 25.96216	16 11 42.39	-01 15 13.8	17.0 N	B54	115P	2011 07 02.00138	16 09 58.62	-01 28 33.5	16.8 N	J24
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115P	2011 06 25.99928	16 11 41.52	-01 15 16.7	17.0 N	K J19	115P	2011 07 02.91902	16 09 47.89	-01 31 22.3	17.7 N	K J47
115P	2011 06 26.00364	16 11 41.42	-01 15 17.3	16.8 N	K J19	115P	2011 07 02.92436	16 09 47.80	-01 31 23.0	18.0 N	K J47
115P	2011 06 26.00800	16 11 41.32	-01 15 18.2	16.9 N	K J19	115P	2011 07 02.92978	16 09 47.67	-01 31 24.1	17.4 N	K J47
115P	2011 06 26.00945	16 11 41.33	-01 15 18.2	17.1 N	J38	115P	2011 07 03.13904	16 09 45.24	-01 31 56.5	17.4 T	844
115P	2011 06 26.01235	16 11 41.19	-01 15 17.5	16.9 N	K J19	115P	2011 07 03.15985	16 09 44.96	-01 31 59.8	17.5 T	844
115P	2011 06 26.01590	16 11 41.17	-01 15 18.8	17.1 N	J38	115P	2011 07 03.88104	16 09 38.30	-01 34 35.9	16.6 N	235
115P	2011 06 26.01670	16 11 41.11	-01 15 18.4	16.9 N	K J19	115P	2011 07 03.88385	16 09 38.23	-01 34 34.9	16.5 N	235
115P	2011 06 26.01805	16 11 41.13	-01 15 19.1	17.1 N	J38	115P	2011 07 03.88654	16 09 38.09	-01 34 31.9	16.6 N	235
115P	2011 06 26.02106	16 11 41.03	-01 15 18.4	17.1 N	K J19	115P	2011 07 05.86002	16 09 22.03	-01 41 36.6	16.9 T	B51
115P	2011 06 26.02542	16 11 40.92	-01 15 18.9	16.7 N	K J19	115P	2011 07 05.87717	16 09 21.87	-01 41 40.7	17.0 T	B51
115P	2011 06 26.02977	16 11 40.80	-01 15 19.4	16.7 N	K J19	115P	2011 07 05.89762	16 09 21.73	-01 41 45.9	17.8 N	J01
115P	2011 06 26.03522	16 11 40.71	-01 15 19.5	16.7 N	K J19	115P	2011 07 05.89819	16 09 21.68	-01 41 45.1	17.1 N	K J97
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115P	2011 06 26.93145	16 11 22.27	-01 16 46.4	16.8 N	C10	115P	2011 07 05.90513	16 09 21.66	-01 41 47.2	17.7 N	J01
115P	2011 06 26.94220	16 11 22.04	-01 16 47.4	16.6 N	C10	115P	2011 07 05.90573	16 09 21.62	-01 41 47.2	17.1 N	K J97
115P	2011 06 26.95394	16 11 21.78	-01 16 48.9	16.7 N	C10	115P	2011 07 05.91248	16 09 21.61	-01 41 49.1	17.9 N	J01
115P	2011 06 26.99740	16 11 20.88	-01 16 53.4		C23	115P	2011 07 06.93131	16 09 16.02	-01 45 50.2	16.4 N	KA77
115P	2011 06 26.99859	16 11 20.78	-01 16 53.4	16.8 N	939	115P	2011 07 06.94057	16 09 15.96	-01 45 52.4	16.0 N	KA77
115P	2011 06 27.00100	16 11 20.68	-01 16 53.5		C23	115P	2011 07 06.94986	16 09 15.89	-01 45 54.5	16.6 N	KA77
115P	2011 06 27.00743	16 11 20.57	-01 16 54.3	16.8 N	939	115P	2011 07 07.90513	16 09 12.50	-01 49 51.2	16.8 N	I99
115P	2011 06 27.89233	16 11 03.61	-01 18 31.5	17.0 T	A77	115P	2011 07 07.91660	16 09 12.31	-01 49 55.5	17.8 N	A71
115P	2011 06 27.91573	16 11 03.12	-01 18 34.3	17.0 T	A77	115P	2011 07 07.91978	16 09 12.30	-01 49 56.3	17.8 N	A71
115P	2011 06 27.93911	16 11 02.65	-01 18 37.1	16.8 T	A77	115P	2011 07 07.92176	16 09 12.35	-01 49 55.0	16.9 N	I99

115P	2011 07 07.92295	16 09 12.29	-01 49 57.0	17.9 N	A71	147P	2007 09 14.29628	00 26 28.86	-00 47 12.0	22.1 T	7 705	
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115P	2011 07 08.89204	16 09 10.38	-01 54 10.0	16.8 N	939		158P/Kowal-LINEAR					
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115P	2011 07 09.87074	16 09 10.02	-01 58 37.9	16.7 N	235	158P	2011 07 07.05332	22 26 05.54	-11 04 24.9	18.6 N	KA77	
115P	2011 07 09.87363	16 09 09.98	-01 58 37.9	17.2 N	K 235		167P/CINEOS					
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115P	2011 07 09.92777	16 09 09.97	-01 58 52.8	17.0 N	K 213	167P	2006 08 28.20368	21 46 36.99	-01 02 40.2	20.5 T	7 705	
115P	2011 07 09.94324	16 09 09.97	-01 58 56.3	17.0 N	232	167P	2006 08 28.20617	21 46 36.95	-01 02 40.3	20.0 T	7 705	
115P	2011 07 09.94345	16 09 09.97	-01 58 57.1	16.9 N	K 213		191P/McNaught					
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115P	2011 07 09.95865	16 09 09.91	-01 59 00.5	17.2 N	232	191P	2007 10 23.31603	03 03 51.08	+01 13 02.0	17.1 N	7 705	
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	123P/West-Hartley						191P	2007 10 30.35867	02 59 17.58	+01 04 14.4	17.0 N	7 705
123P	2011 03 21.79440	05 30 04.61	+37 51 52.1	17.4 N	473	191P	2007 10 30.35951	02 59 17.54	+01 04 14.7	17.3 N	7 705	
123P	2011 03 21.80912	05 30 05.98	+37 51 51.2	17.3 N	473	191P	2007 10 30.36200	02 59 17.43	+01 04 14.3	16.9 N	7 705	
123P	2011 06 19.47453	08 46 55.25	+29 51 32.0	15.3 N	D95	191P	2007 11 02.35107	02 57 11.16	+01 03 04.4	17.0 N	7 705	
123P	2011 06 19.47891	08 46 55.78	+29 51 29.9		D95	191P	2007 11 02.35191	02 57 11.13	+01 03 04.4	17.3 N	7 705	
123P	2011 06 21.86806	08 52 34.10	+29 25 11.8	16.2 N	K A71	191P	2007 11 02.35439	02 57 11.03	+01 03 04.4	16.7 N	7 705	
123P	2011 06 21.87323	08 52 34.79	+29 25 09.7	16.4 N	K A71	191P	2007 11 02.35467	02 55 01.21	+01 03 38.0	16.9 N	7 705	
	130P/McNaught-Hughes						191P	2007 11 05.35550	02 55 01.16	+01 03 38.0	17.1 N	7 705
130P	2011 06 13.07268	22 46 13.66	-14 24 36.3	16.7 N	K A77	191P	2007 11 05.35798	02 55 01.06	+01 03 38.0	16.5 N	7 705	
130P	2011 06 13.07733	22 46 14.03	-14 24 35.8	16.7 N	K A77	191P	2007 11 08.37379	02 52 49.72	+01 06 03.8	16.9 N	7 705	
130P	2011 06 13.08196	22 46 14.38	-14 24 34.7	16.7 N	K A77	191P	2007 11 08.37463	02 52 49.69	+01 06 03.9	17.1 N	7 705	
130P	2011 06 18.16001	22 52 35.71	-14 15 32.2	16.6 N	J24	191P	2007 11 08.37712	02 52 49.57	+01 06 04.1	16.7 N	7 705	
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130P	2011 06 24.82575	23 00 09.32	-14 09 22.5	16.3 N	30D90	191P	2007 11 12.34821	02 49 59.58	+01 12 14.7	16.7 N	7 705	
130P	2011 06 24.83245	23 00 09.74	-14 09 22.4	16.3 N	30D90		213P/Van Ness					
130P	2011 06 24.83686	23 00 10.01	-14 09 22.4	16.3 N	30D90	213P	2011 04 30.36083	21 54 48.60	-15 16 16.0	15.8 N	I40	
130P	2011 06 26.42106	23 01 49.65	-14 09 04.5	15.3 N	H10	213P	2011 04 30.36521	21 54 49.04	-15 16 12.8	15.0 N	I40	
130P	2011 06 26.42556	23 01 49.91	-14 09 04.9	15.0 T	H10	213P	2011 04 30.36742	21 54 49.27	-15 16 11.1	16.5 N	I40	
130P	2011 06 28.02721	23 03 27.08	-14 09 07.0	16.4 T	K 215	213P	2011 04 30.36960	21 54 49.49	-15 16 09.5	15.8 N	I40	
130P	2011 06 28.02827	23 03 27.14	-14 09 07.1	16.4 T	K 215	213P	2011 04 30.37398	21 54 49.94	-15 16 06.4	15.0 N	I40	
130P	2011 06 28.02932	23 03 27.20	-14 09 07.1	16.4 T	K 215	213P	2011 05 05.34866	22 03 10.70	-14 15 15.9	16.6 N	I40	
130P	2011 06 30.39868	23 05 44.22	-14 09 56.1		32H06	213P	2011 05 05.35093	22 03 10.92	-14 15 14.4	15.9 N	I40	
130P	2011 06 30.40152	23 05 44.36	-14 09 55.9		32H06	213P	2011 05 05.35311	22 03 11.14	-14 15 12.6	15.5 N	I40	
130P	2011 06 30.40437	23 05 44.54	-14 09 55.8	15.6 T	32H06	213P	2011 05 05.35530	22 03 11.34	-14 15 11.1	15.0 N	I40	
	131P/Mueller						213P	2011 05 05.35759	22 03 11.58	-14 15 09.5	16.6 N	I40
131P	2011 07 05.05292	00 01 38.26	+07 33 43.1	20.7 N	K C10	213P	2011 05 05.35977	22 03 11.78	-14 15 07.9	15.8 N	I40	
131P	2011 07 05.06437	00 01 39.07	+07 33 51.5	20.5 N	K C10	213P	2011 05 05.36199	22 03 12.01	-14 15 06.1	15.5 N	I40	
131P	2011 07 07.07570	00 03 12.17	+07 45 48.7	20.5 N	K A77	213P	2011 05 12.35147	22 14 25.28	-12 48 33.9	16.7 N	I40	
131P	2011 07 07.08947	00 03 12.69	+07 45 53.0	21.0 N	K A77	213P	2011 05 12.35373	22 14 25.48	-12 48 32.5	16.0 N	I40	
131P	2011 07 07.10170	00 03 13.36	+07 45 58.4	20.6 N	K A77	213P	2011 05 12.35592	22 14 25.67	-12 48 31.0	15.7 N	I40	
	147P/Kushida-Muramatsu						213P	2011 05 12.35811	22 14 25.88	-12 48 29.4	15.2 N	I40
147P	2007 09 05.33748	00 31 21.24	-00 11 10.0	21.7 T	7 705	213P	2011 05 12.36031	22 14 26.09	-12 48 27.7	16.7 N	I40	
147P	2007 09 05.34081	00 31 21.15	-00 11 11.1	21.7 T	7 705	213P	2011 05 15.33642	22 19 01.56	-12 11 20.5	16.7 N	I40	
147P	2007 09 14.29296	00 26 28.97	-00 47 10.8	21.9 T	7 705	213P	2011 05 15.33798	22 19 01.68	-12 11 19.5	16.7 N	I40	

213P	2011 05 15.33947	22 19 01.83	-12 11 18.6	16.1 N	I40	213P	2011 06 26.06900	23 08 44.82	-03 41 37.7	15.3 N	945
213P	2011 05 15.34096	22 19 01.96	-12 11 17.3	16.0 N	I40	213P	2011 06 26.07220	23 08 44.98	-03 41 35.6	15.2 N	945
213P	2011 05 15.34246	22 19 02.08	-12 11 16.0	15.2 N	I40	213P	2011 06 26.07468	23 08 45.11	-03 41 34.0	15.3 N	945
213P	2011 05 15.34395	22 19 02.23	-12 11 15.3	15.2 N	I40	213P	2011 06 26.07751	23 08 45.16	-03 41 32.3	15.2 N	J38
213P	2011 05 15.34548	22 19 02.37	-12 11 14.1	15.7 N	I40	213P	2011 06 26.08274	23 08 45.41	-03 41 28.8	15.2 N	J38
213P	2011 05 15.34697	22 19 02.49	-12 11 12.8	15.7 N	I40	213P	2011 06 26.08449	23 08 45.48	-03 41 27.1	15.2 N	J38
213P	2011 05 15.34846	22 19 02.62	-12 11 11.6	15.7 N	I40	213P	2011 06 26.38952	23 08 59.93	-03 38 00.6	18.7 T	704
213P	2011 05 15.34996	22 19 02.77	-12 11 10.6	15.7 N	I40	213P	2011 06 26.40008	23 09 00.38	-03 37 53.1	19.4 T	704
213P	2011 05 15.35144	22 19 02.90	-12 11 09.7	15.7 N	I40	213P	2011 06 26.41039	23 09 00.92	-03 37 44.6	19.1 T	704
213P	2011 05 15.35293	22 19 03.02	-12 11 08.4	15.7 N	I40	213P	2011 06 26.42081	23 09 01.36	-03 37 35.0	17.1 T	704
213P	2011 05 15.35442	22 19 03.14	-12 11 07.3	15.7 N	I40	213P	2011 06 27.36274	23 09 45.04	-03 26 55.5	15.66T	H10
213P	2011 06 04.01164	22 46 13.79	-08 05 39.4	16.0 N	585	213P	2011 06 27.36642	23 09 45.20	-03 26 53.0	15.64T	H10
213P	2011 06 04.01235	22 46 13.85	-08 05 38.6	15.9 N	585	213P	2011 06 28.02031	23 10 14.73	-03 19 31.1	15.8 N	K 215
213P	2011 06 04.01306	22 46 13.94	-08 05 38.4	15.9 N	585	213P	2011 06 28.02137	23 10 14.78	-03 19 30.4	15.8 N	K 215
213P	2011 06 04.01450	22 46 13.98	-08 05 37.6	15.0 N	585	213P	2011 06 28.02243	23 10 14.83	-03 19 29.7	15.8 N	K 215
213P	2011 06 04.01538	22 46 14.09	-08 05 36.3	15.6 N	585	213P	2011 06 29.70647	23 11 28.08	-03 00 37.2	15.0 T	D95
213P	2011 06 04.01609	22 46 14.14	-08 05 35.2	15.9 N	585	213P	2011 06 29.70861	23 11 28.19	-03 00 35.5		D95
213P	2011 06 04.01679	22 46 14.26	-08 05 35.3	15.6 N	585	213P	2011 06 29.71288	23 11 28.35	-03 00 32.8		D95
213P	2011 06 04.72661	22 47 06.11	-07 56 49.0	14.6 T	349	213P	2011 06 29.71502	23 11 28.45	-03 00 30.9		D95
213P	2011 06 04.73422	22 47 06.71	-07 56 42.7		349	213P	2011 06 30.37709	23 11 56.05	-02 53 08.9		32H06
213P	2011 06 05.72951	22 48 18.98	-07 44 25.3	15.6 N	372	213P	2011 06 30.38068	23 11 56.19	-02 53 06.8		32H06
213P	2011 06 05.73264	22 48 19.18	-07 44 23.4		372	213P	2011 06 30.38428	23 11 56.33	-02 53 04.3	13.5 T	32H06
213P	2011 06 05.73715	22 48 19.46	-07 44 19.4		372	213P	2011 07 02.36955	23 13 15.42	-02 31 13.2	15.2 T	H45
213P	2011 06 12.30034	22 55 48.24	-06 23 58.1	16.3 N	I40	213P	2011 07 02.37315	23 13 15.56	-02 31 10.8	15.4 T	H45
213P	2011 06 12.30340	22 55 48.44	-06 23 56.0	15.7 N	I40	213P	2011 07 02.37496	23 13 15.63	-02 31 09.6	15.3 T	H45
213P	2011 06 12.30488	22 55 48.54	-06 23 54.9	15.7 N	I40	213P	2011 07 02.37665	23 13 15.69	-02 31 08.5	15.3 T	H45
213P	2011 06 12.30638	22 55 48.62	-06 23 54.0	14.9 N	I40	213P	2011 07 02.37803	23 13 15.73	-02 31 07.6	15.4 T	H45
213P	2011 06 12.30939	22 55 48.82	-06 23 51.7	15.4 N	I40	213P	2011 07 02.38268	23 13 15.90	-02 31 04.5	15.3 T	H45
213P	2011 06 12.31087	22 55 48.92	-06 23 50.5	15.4 N	I40	213P	2011 07 02.98785	23 13 38.76	-02 24 29.1	15.4 N	C10
213P	2011 06 12.31236	22 55 49.01	-06 23 49.6	15.4 N	I40	213P	2011 07 02.99427	23 13 39.10	-02 24 25.9	15.4 N	C10
213P	2011 06 12.42726	22 55 56.18	-06 22 32.2	14.8 T	G92	213P	2011 07 03.00351	23 13 39.45	-02 24 19.7	15.5 N	C10
213P	2011 06 12.43829	22 55 56.96	-06 22 23.7	14.9 T	G92	213P	2011 07 03.35552	23 13 52.48	-02 20 29.0	14.6 T	H45
213P	2011 06 12.44933	22 55 57.57	-06 22 15.8	14.9 T	G92	213P	2011 07 03.35817	23 13 52.58	-02 20 27.5	14.6 T	H45
213P	2011 06 12.46030	22 55 58.33	-06 22 07.8	15.0 T	G92	213P	2011 07 03.36157	23 13 52.70	-02 20 25.2	14.3 T	H45
213P	2011 06 17.10608	23 00 45.92	-05 26 17.9	15.1 N	K 958	213P	2011 07 03.36605	23 13 52.87	-02 20 22.2	14.6 T	H45
213P	2011 06 17.11716	23 00 46.55	-05 26 09.5	15.0 N	K 958	213P	2011 07 03.37381	23 13 53.14	-02 20 17.3	14.5 T	H45
213P	2011 06 17.12830	23 00 47.17	-05 26 01.4	14.9 N	K 958	213P	2011 07 04.01547	23 14 16.45	-02 13 21.9	16.7 N	C23
213P	2011 06 18.17573	23 01 48.52	-05 13 32.7	15.1 N	J24	213P	2011 07 04.01907	23 14 16.67	-02 13 20.2	16.4 N	C23
213P	2011 06 18.18133	23 01 48.82	-05 13 28.4	15.1 N	J24	213P	2011 07 04.02267	23 14 16.83	-02 13 17.0	16.4 N	C23
213P	2011 06 18.18805	23 01 49.17	-05 13 23.7	15.1 N	J24	213P	2011 07 04.02626	23 14 16.93	-02 13 15.4	16.4 N	C23
213P	2011 06 19.41892	23 02 59.23	-04 58 50.5		32H06	213P	2011 07 04.02986	23 14 17.03	-02 13 12.3	16.4 N	C23
213P	2011 06 19.42133	23 02 59.40	-04 58 48.6	14.7 T	32H06	213P	2011 07 04.03346	23 14 17.15	-02 13 10.5	16.7 N	C23
213P	2011 06 24.81006	23 07 43.75	-03 55 55.8	14.8 N	30D90	213P	2011 07 04.03705	23 14 17.34	-02 13 08.3	16.5 N	C23
213P	2011 06 24.81613	23 07 44.03	-03 55 51.8	14.8 N	30D90	213P	2011 07 04.04065	23 14 17.37	-02 13 06.2	16.3 N	C23
213P	2011 06 24.82141	23 07 44.28	-03 55 48.1	14.8 N	30D90	213P	2011 07 04.04424	23 14 17.52	-02 13 04.4	16.6 N	C23
213P	2011 06 25.05015	23 07 55.68	-03 53 17.1	15.2 N	J38	213P	2011 07 05.00519	23 14 51.16	-02 02 44.1	15.3 N	C10
213P	2011 06 25.05451	23 07 55.95	-03 53 14.7	15.1 N	J38	213P	2011 07 05.01303	23 14 51.42	-02 02 39.2	15.3 N	C10
213P	2011 06 25.05597	23 07 56.02	-03 53 13.0	15.2 N	J38	213P	2011 07 05.06189	23 14 53.07	-02 02 07.3	15.0 N	A77
213P	2011 06 25.06795	23 07 56.47	-03 53 05.0	15.2 N	A01	213P	2011 07 05.06809	23 14 53.28	-02 02 03.3	15.1 N	A77
213P	2011 06 25.07189	23 07 56.69	-03 53 02.0	15.2 N	A01	213P	2011 07 05.07429	23 14 53.48	-02 01 59.3	15.0 N	A77
213P	2011 06 25.07385	23 07 56.79	-03 53 00.8	15.2 N	A01	213P	2011 07 06.07477	23 15 26.97	-01 51 19.3	15.7 T	B51
213P	2011 06 26.05896	23 08 44.33	-03 41 45.0	15.3 N	945	213P	2011 07 06.08567	23 15 27.26	-01 51 12.8	15.5 N	C09
213P	2011 06 26.06329	23 08 44.58	-03 41 40.9	15.3 N	945	213P	2011 07 06.08619	23 15 27.30	-01 51 12.0	15.7 T	B51

213P	2011 07 06.09270	23 15 27.49	-01 51 08.4	15.5 N	C09
213P	2011 07 06.09972	23 15 27.69	-01 51 04.2	15.6 N	C09
213P	2011 07 06.10064	23 15 27.78	-01 51 02.6	15.8 T	B51
213P	2011 07 06.10634	23 15 27.92	-01 50 59.7	15.5 N	213
213P	2011 07 06.10676	23 15 27.94	-01 50 59.0	15.5 N	C09
213P	2011 07 06.11041	23 15 28.05	-01 50 57.2	15.5 N	213
213P	2011 07 06.11381	23 15 28.14	-01 50 54.8	15.5 N	C09
213P	2011 07 06.11451	23 15 28.16	-01 50 54.7	15.5 N	213
213P	2011 07 07.02083	23 15 57.19	-01 41 20.3	15.0 N	K A77
213P	2011 07 07.04248	23 15 57.81	-01 41 06.9	15.0 N	K A77
213P	2011 07 07.06413	23 15 58.46	-01 40 52.9	15.0 N	K A77
213P	2011 07 09.03749	23 16 56.75	-01 20 19.6	15.5 N	232
213P	2011 07 09.04013	23 16 56.84	-01 20 17.7	15.5 N	232
213P	2011 07 09.04278	23 16 56.89	-01 20 15.9	15.3 N	232
213P	2011 07 09.08868	23 16 58.10	-01 19 48.2	15.3 N	I99
213P	2011 07 09.09515	23 16 58.24	-01 19 44.2	15.4 N	I99
213P	2011 07 09.10168	23 16 58.44	-01 19 40.2	15.4 N	I99
213P	2011 07 09.10222	23 16 58.40	-01 19 39.5	15.4 N	939
213P	2011 07 09.10829	23 16 58.56	-01 19 35.6	15.4 N	939
213P	2011 07 09.11434	23 16 58.74	-01 19 31.4	15.4 N	939
213P	2011 07 09.37080	23 17 05.91	-01 16 52.5	16.1 N	H45
213P	2011 07 09.37380	23 17 05.99	-01 16 50.7	16.1 N	H45
213P	2011 07 09.37630	23 17 06.05	-01 16 49.0	16.1 N	H45
213P	2011 07 09.38366	23 17 06.24	-01 16 44.5	16.1 N	H45
213P	2011 07 09.38582	23 17 06.28	-01 16 43.2	16.0 N	H45
213P	2011 07 09.38950	23 17 06.39	-01 16 41.0	16.1 N	H45
213P	2011 07 10.04446	23 17 24.06	-01 09 57.8	15.8 T	B51
213P	2011 07 10.05134	23 17 24.22	-01 09 54.7	16.1 N	C23
213P	2011 07 10.05575	23 17 24.28	-01 09 52.1	16.0 N	C23
213P	2011 07 10.05683	23 17 24.36	-01 09 50.3	15.7 T	B51
213P	2011 07 10.05927	23 17 24.41	-01 09 50.1	16.1 N	C23
213P	2011 07 10.06448	23 17 24.53	-01 09 46.8	15.6 N	C23
213P	2011 07 10.06801	23 17 24.58	-01 09 44.9	15.3 N	C23
213P	2011 07 10.06917	23 17 24.67	-01 09 42.4	15.7 T	B51
213P	2011 07 10.07153	23 17 24.67	-01 09 42.5	15.5 N	C23
213P	2011 07 10.07506	23 17 24.79	-01 09 40.4	15.9 N	C23
213P	2011 07 10.07859	23 17 24.89	-01 09 37.8	15.9 N	C23
213P	2011 07 10.07972	23 17 24.93	-01 09 36.0	15.8 T	B51
213P	2011 07 10.11175	23 17 25.72	-01 09 16.8	15.5 N	232
213P	2011 07 10.11705	23 17 25.85	-01 09 13.7	15.5 N	232
213P	2011 07 10.12233	23 17 25.94	-01 09 10.8	15.4 N	232
213P	2011 07 10.41337	23 17 33.47	-01 06 11.8	15.5 N	H47
213P	2011 07 10.41692	23 17 33.56	-01 06 09.6	15.4 N	H47
213P	2011 07 10.42097	23 17 33.66	-01 06 07.1	15.6 N	H47
213P	2011 07 10.42459	23 17 33.75	-01 06 04.9	15.8 N	H47
213P	2011 07 10.69581	23 17 40.85	-01 03 19.6	14.3 T	D95
213P	2011 07 10.70009	23 17 40.92	-01 03 17.2		D95
213P	2011 07 10.70223	23 17 40.99	-01 03 15.8		D95
213P	2011 07 10.70436	23 17 41.04	-01 03 14.4		D95
213P	2011 07 12.06318	23 18 13.83	-00 49 32.3	14.7 N	A77
213P	2011 07 12.07713	23 18 14.14	-00 49 23.8	14.7 N	A77
213P	2011 07 12.09264	23 18 14.44	-00 49 14.7	14.8 N	A77

231P/LINEAR-NEAT

231P	2011 06 25.28561	11 16 54.355	+14 25 40.37	20.9 T	F51
231P	2011 06 25.29482	11 16 54.942	+14 25 36.45	21.1 T	F51
231P	2011 06 25.29942	11 16 55.229	+14 25 34.32	21.3 T	F51
231P	2011 06 27.91048	11 19 42.21	+14 06 43.9	18.6 T	K 215
231P	2011 06 27.91188	11 19 42.33	+14 06 43.2	18.8 T	K 215
231P	2011 06 27.91312	11 19 42.41	+14 06 42.7	18.7 T	K 215

240P/NEAT

240P	2011 06 16.15450	09 08 05.74	+35 31 32.8		32H06
240P	2011 06 16.15631	09 08 05.93	+35 31 31.8		32H06
240P	2011 06 16.15813	09 08 06.14	+35 31 31.0	15.0 T	32H06
240P	2011 06 19.86874	09 14 41.69	+35 01 21.2	16.4 N	A71
240P	2011 06 19.87127	09 14 42.10	+35 01 20.0	16.6 N	A71
240P	2011 06 19.87382	09 14 42.22	+35 01 18.1	16.5 N	A71
240P	2011 06 19.87635	09 14 42.56	+35 01 17.0	15.9 N	A71
240P	2011 06 19.87889	09 14 42.78	+35 01 16.3	16.4 N	A71
240P	2011 06 19.88142	09 14 43.14	+35 01 13.4	16.6 N	A71
240P	2011 06 19.89905	09 14 44.89	+35 01 06.2	16.2 N	K 958
240P	2011 06 19.91007	09 14 46.06	+35 01 01.5	16.3 N	K 958
240P	2011 06 19.92124	09 14 47.35	+35 00 54.4	16.3 N	K 958
240P	2011 06 20.87544	09 16 28.60	+34 53 04.6	16.4 N	K 958
240P	2011 06 20.88661	09 16 29.94	+34 52 59.4	16.4 N	K 958
240P	2011 06 20.89763	09 16 30.97	+34 52 54.0	16.5 N	K 958
240P	2011 06 22.14926	09 18 43.51	+34 42 35.2		32H06
240P	2011 06 22.15047	09 18 43.64	+34 42 34.5		32H06
240P	2011 06 22.15168	09 18 43.80	+34 42 34.0		32H06
240P	2011 06 22.15288	09 18 43.92	+34 42 33.2		32H06
240P	2011 06 22.15409	09 18 44.03	+34 42 32.7	15.1 T	32H06
240P	2011 06 26.88099	09 27 02.39	+34 03 01.3	16.2 N	K 958
240P	2011 06 26.89168	09 27 03.45	+34 02 56.5	16.3 N	K 958
240P	2011 06 26.90303	09 27 04.81	+34 02 50.6	16.4 N	K 958
240P	2011 06 29.89280	09 32 17.64	+33 37 32.3	16.4 N	K 958
240P	2011 06 29.90354	09 32 18.77	+33 37 23.5	16.6 N	K 958
240P	2011 06 29.91423	09 32 20.00	+33 37 15.9	16.7 N	K 958
240P	2011 06 30.15893	09 32 45.65	+33 35 14.9		32H06
240P	2011 06 30.16133	09 32 45.97	+33 35 12.3	15.8 T	32H06

247P/LINEAR

247P	2010 11 19.38293	06 06 34.10	+32 46 55.3	18.3 T	704
247P	2010 11 19.38306	06 06 34.04	+32 46 53.3	18.2 T	704
247P	2010 11 19.38319	06 06 34.05	+32 46 54.5	18.1 T	704
247P	2010 11 19.38330	06 06 34.07	+32 46 54.2	18.0 T	704
247P	2010 11 19.38342	06 06 34.06	+32 46 54.4	18.1 T	704
247P	2010 11 19.39571	06 06 34.69	+32 47 13.5	18.6 T	704
247P	2010 11 19.39584	06 06 34.76	+32 47 12.9	18.2 T	704
247P	2010 11 19.39597	06 06 34.74	+32 47 13.3	18.2 T	704
247P	2010 11 19.39608	06 06 34.77	+32 47 13.7	18.2 T	704
247P	2010 11 19.39621	06 06 34.75	+32 47 13.7	18.4 T	704
247P	2010 11 19.40853	06 06 35.46	+32 47 33.1	18.5 T	704
247P	2010 11 19.40866	06 06 35.46	+32 47 31.9	18.7 T	704
247P	2010 11 19.40879	06 06 35.51	+32 47 31.8	18.3 T	704
247P	2010 11 19.40892	06 06 35.49	+32 47 32.7	18.4 T	704
247P	2010 11 19.40905	06 06 35.47	+32 47 33.1	18.2 T	704

247P	2010 11 19.42150	06 06 36.19	+32 47 52.4	18.7 T	704
247P	2010 11 19.42163	06 06 36.23	+32 47 50.7	18.4 T	704
247P	2010 11 19.42176	06 06 36.21	+32 47 50.7	18.4 T	704
247P	2010 11 19.42187	06 06 36.18	+32 47 51.6	18.4 T	704
247P	2010 11 19.42199	06 06 36.22	+32 47 52.1	18.3 T	704
247P	2010 11 19.43444	06 06 36.87	+32 48 10.8	18.4 T	704
247P	2010 11 19.43457	06 06 36.87	+32 48 10.7	18.2 T	704
247P	2010 11 19.43468	06 06 36.88	+32 48 10.7	18.6 T	704
247P	2010 11 19.43480	06 06 36.93	+32 48 11.6	18.4 T	704

248P/Gibbs

248P	2010 06 26.18147	00 12 55.02	+06 21 47.8		C51
Geocentric position (km)	+ 6871.7638	+ 238.1094	+ 659.0757		
248P	2010 06 26.31378	00 13 02.49	+06 22 37.7		C51
Geocentric position (km)	+ 6870.9514	+ 253.7814	+ 660.2063		
248P	2010 06 26.57838	00 13 17.40	+06 24 17.5		C51
Geocentric position (km)	+ 6869.2045	+ 285.4536	+ 664.8611		
248P	2010 06 26.77690	00 13 28.57	+06 25 32.2		C51
Geocentric position (km)	+ 6872.0066	+ 303.7963	+ 624.7654		
248P	2010 06 26.90908	00 13 36.00	+06 26 21.8		C51
Geocentric position (km)	+ 6862.5724	+ 330.0118	+ 708.4614		
248P	2010 06 26.90921	00 13 36.01	+06 26 21.9		C51
Geocentric position (km)	+ 6871.1917	+ 319.4412	+ 625.9493		
248P	2010 06 27.30599	00 13 58.25	+06 28 50.5		C51
Geocentric position (km)	+ 6859.8282	+ 377.5950	+ 713.3765		
248P	2010 06 27.43829	00 14 05.65	+06 29 39.9		C51
Geocentric position (km)	+ 6858.7193	+ 393.2756	+ 714.3411		
248P	2010 06 27.70290	00 14 20.42	+06 31 18.6		C51
Geocentric position (km)	+ 6856.2571	+ 424.8973	+ 718.9029		

OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory code:

E07 Murrumbateman. Observer D. Herald. 0.36-m *f*/3.9 Schmidt-Cassegrain + CCD.

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
Saturn IX	2011 06 26.37780	12 42 18.16	-01 51 57.4	17.0 V	KE07	
Saturn IX	2011 06 26.37998	12 42 18.16	-01 51 57.5	16.9 V	KE07	

OBSERVATIONS OF MINOR PLANETS

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

006 Fabra Observatory, Barcelona

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Observers J. M. Codina, J. Nuñez, N. Torras

0.38-m *f*/11 astrograph

PPM

(1), 4, 1, 0; (2), 8, 3, 57; (7), 3, 1, 0; (21), 3, 1, 0; (25), 7, 2, 23; (39), 7, 2, 20; (148), 4, 1, 0; (185), 3, 1, 0; (236), 3, 1, 0; (532), 8, 2, 48; (704), 3, 1, 0; [53, 11, 0*, 1998/01/20-1998/12/21]

012 Uccle

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

0.85-m *f*/2.5 Schmidt + CCD

2011 KS₁₆, 3, 1, 0; [3, 1, 0*, 2011/06/08]

049 Uppsala-Kvistaberg

C.-I. Lagerkvist, Uppsala Astronomical Observatory, Box 515, S-75120 Uppsala, Sweden [classe@astro.uu.se]

Observers O. Karlsson, C.-I. Lagerkvist, T. Oja, J. Näränen

Measurers G. Hahn, O. Karlsson, C.-I. Lagerkvist, S. Mottola, J. Warell

1.0-m Schmidt + CCD

USNO-SA2.0

2007 EU₁₀₁, 3, 1, 0; [3, 1, 0*, 2003/02/21]

069 Baldone

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

Observer I. Eglitis

Measurer K. Černis

0.80-m *f*/3.0 Schmidt + CCD

UCAC-2

(104618), 1, 1, 0; (105057), 3, 1, 0; (117333), 2, 1, 0; (122631), 1, 1, 0; (199623), 2, 1, 0; [9, 5, 0*, 2011/04/29-2011/05/10]

089 Nikolaev

A. V. Ivantsov, 1 Observatornaya vul., Nikolaev Astronomical Observatory, UA-54030 Mykolaiv, Ukraine [anatoly@mao.nikolaev.ua]

Observers Y. Sybiryakova, Y. Kozyryev, A. V. Ivantsov, V. N. Pyshnenko

Measurer A. V. Ivantsov, Zh. A. Pozhalova

0.5-m *f*/6.0 Maksutov + CCD

UCAC-2

2009 WW₁₀₄, 20, 2, 1; 2011 DL₁₉, 14, 1, 0; (5496), 3, 1, 0; (267494), 38, 3, 3; [75, 4, 0*, 2011/06/05-2011/06/23]

104 San Marcello Pistoiese

L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San

Marcello Pistoiese (PT), Italy [iau@arcetri.astro.it]

Observers L. Tesi, P. Bacci, G. Fagioli, R. Bacci

0.60-m *f*/4 reflector + CCD

CMC, UCAC-2, USNO-A2.0

2005 CS₆₁, 2, 1, 0; 2006 TD₇₀, 2, 1, 0; 2008 AE, 3, 1, 0; 2008 KD₆, 9, 2, 3; 2008 LV₁₆, 3, 1, 0; 2009 XR₆, 3, 1, 0; 2010 XO₅₆, 3, 1, 0; 2011 GQ₆₅, 2, 1, 0; 2011 KP₁₇, 3, 1, 0; 2011 KS₂₉, 4, 1, 0; 2011 LC₁₉, 5, 2, 16; 2011 MC, 3, 1, 0; 2011 MD, 4, 1, 0; 2011 MK, 3, 1, 0; 2011 MV₁, 3, 1, 0; 2011 MY₂, 5, 1, 0; 2011 MM₄, 2, 1, 0; 2011 MD₅, 3, 1, 0; 2011 ME₅, 3, 1, 0; (11301), 3, 1, 0; (18093), 2, 1, 0; (27220), 3, 1, 0; (27544), 3, 1, 0; (47565), 2, 1, 0; (60558), 2, 1, 0; (87043), 2, 1, 0; (87199), 3, 1, 0; (155913), 2, 1, 0; (157167), 2, 1, 0; (197694), 2, 1, 0; (235995), 3, 1, 0; (280313), 2, 1, 0; [96, 32, 0*, 1999/03/14-2011/07/09]

106 Črni Vrh

H. Mikuš, Kersnikova 11, SI-61000 Ljubljana, Slovenia [herman.mikuz@uni-lj.si]

Observers S. Maticič, J. Skvarč, H. Mikuš

0.6-m *f*/3.3 Deltagraph + CCD

UCAC-2

198 Wildberg

R. Apitzsch, Schwarzwaldstrasse 17-2, D-72218 Wildberg, Germany

[astrowild@astro-wildberg.de]

0.35-m $f/4.2$ reflector + CCD

PPMXL

2008 YW₂₆, 6, 2, 8; 2011 MD, 13, 2, 2; 2011 NM, 5, 1, 0; (75744), 2, 1, 0; (205218), 3, 1, 0; [29, 5, 0*, 2011/06/24-2011/07/05]**203 GiaGa Observatory**

G. Galli, via Mozart 4, Pogliano Milanese (MI), Italy [gllgianni@libero.it]

Observers S. Foglia, G. Galli

0.28-m $f/6.8$ Schmidt-Cassegrain + CCD

UCAC-2

2011 JA₈, 2, 1, 0; 2011 JP₂₉, 2, 1, 0; 2011 KP₁₇, 4, 2, 15; 2011 LA₁₉, 2, 1, 0; 2011 NY, 2, 1, 0; [12, 5, 0*, 2011/06/26-2011/07/12]**204 Schiaparelli Observatory**

F. Bellini, via A. del Sarto 3, I-21100 Varese, Italy [astrogeo@astrogeo.va.it]

Observers L. Buzzi, F. Manca, A. Testa

0.60-m $f/4.64$ reflector + CCD, 0.38-m $f/6.8$ reflector + CCD

NOMAD

2003 AL₇₃, 2, 1, 0; 2003 BK₄₇, 5, 1, 0; 2003 LG, 3, 1, 0; 2005 AN₂₆, 2, 1, 0; 2005 XN₄, 2, 1, 0; 2007 RT₉, 3, 1, 0; 2008 LV₁₆, 3, 1, 0; 2009 BD, 2, 1, 0; 2009 WW₁₀₄, 8, 2, 7; 2010 NJ₁, 2, 1, 0; 2010 XO₅₆, 3, 1, 0; 2011 DL₁₉, 5, 1, 0; 2011 KO₁₇, 2, 1, 0; 2011 LJ₁, 2, 1, 0; 2011 LT₁₇, 5, 1, 0; 2011 LA₁₉, 3, 1, 0; 2011 LC₁₉, 2, 1, 0; 2011 LD₁₉, 3, 1, 0; 2011 LJ₂₀, 2, 1, 0; 2011 MC, 5, 1, 0; 2011 MD, 21, 4, 6; 2011 ME, 3, 1, 0; 2011 MK, 3, 1, 0; 2011 MQ₁, 3, 1, 0; 2011 MD₂, 2, 1, 0; (9198), 2, 1, 0; (14480), 3, 1, 0; (25045), 2, 1, 0; (50891), 2, 1, 0; (94661), 2, 1, 0; (118540), 3, 1, 0; (162868), 3, 1, 0; (172027), 2, 1, 0; [115, 33, 0*, 2011/06/13-2011/07/01]**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, USNO-A2.0

2011 MD, 3, 1, 0; [3, 1, 0*, 2011/06/26]

215 Buchloe

W. Hasubick, Fischerweg 24, D-86807 Buchloe, Germany [werner.hasubick@t-online.de]

0.44-m $f/4.6$ reflector + CCD

UCAC-2, UCAC-3

2011 MD, 4, 1, 0; (60558), 3, 1, 0; [7, 2, 0*, 2011/06/26]

233 San Vito

S. Donati, Sauro Donati Astronomical Observatory, San Vito, Lucca, Italy

[saurdon@tin.it]

0.30-m $f/10$ Schmidt-Cassegrain + CCD

USNO-A1.0

(2102), 3, 1, 0; (7482), 3, 1, 0; (280136), 3, 1, 0; [9, 3, 0*, 2011/07/05-2011/07/08]

235 CAST Observatory, Talmassons

R. Ligustri, Circolo Astrofili Talmassons Observatory, Talmassons (UD), Italy

[rolando.ligustri@tin.it]

Observers R. Ligustri, D. Rio Daniele, P. Brunato

0.35-m $f/6$ reflector + CCD

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

2011 MD, 3, 1, 0; [3, 1, 0*, 2011/06/26]

240 Herrenberg

H. Michels, Enstr. 10, D-71083 Herrenberg, Germany [Helmut@sternwarte-

herrenberg.de]

0.40-m $f/5$ reflector + CCD

UCAC-3

(87025), 3, 1, 0; [3, 1, 0*, 2011/07/01]

244 Geocentric Occultation Observations

D. Herald, P.O. Box 254, Woden, ACT 2606, Australia

[DRHerald@bigpond.net.au]

Observers F. Van Den Abbeel, B. Allen, A. Asai, R. Asmus, M. Bianda, S. Boettcher, R. Bourtembourg, J. Bradshaw, E. Bredner, J. Broughton, J. Caquel, G. Casalnuovo, B. Chinaglia, M. Christoph, S. Conard, P. Corelli, K. Coughlin, G. Dangl, O. Dechambre, M. Dentel, H. Denzau, D. Dunham, P. Enskonatus, D. Ewald, R. Fleishman, E. Frappa, D. Gault, S. Gebhard, H. De Groot, C. Gualdoni, K. Guhl, R. Hamid, A. Hasan, A. Hashimoto, T. Haymes, R. Hengst, D. Herald, M. Ida, M. Ishida, T. Janik, B. Kattentidt, K. Kenmotsu, S. Kerr, K. Kitazaki, A. Klotz, J. Lecacheux, F. Leiter, A. Leroy, P. Lindner, K. Litwinowicz, B. Loader, A. Lucas, H. Luethen, P. Maksym, P. Maley, V. Metallinos, K. Miyashita, R. Modic, T. Noda, S. Okamoto, M. Owada, H. Pavlov, A. Pratt, P. Purcell, R. Ramelli, W. Rothe, E. Rothenberg, S. Russell, H. Rutten, O. Sandor, A. Scheck, R. Simonson, J. Speil, S. Sposetti, H. Takashima, J. Talbot, K. Tigani, V. Tsamis, M. Uchiyama, S. Uchiyama, G. Vaudescal, H. Watanabe, L. Wieteska, N. Wuensche, C. Wyatt, A. Yaeza, I. Yamanishi, J. Yokomichi, H. Yoshihara

Measurers D. Herald, E. Frappa, T. Hayamizu, J. Talbot, B. Timerson

(17), 1, 1, 0; (27), 1, 1, 0; (36), 1, 1, 0; (42), 1, 1, 0; (52), 1, 1, 0; (60), 1, 1, 0; (71), 1, 1, 0; (85), 1, 1, 0; (102), 1, 1, 0; (117), 1, 1, 0; (134), 1, 1, 0; (194), 1, 1, 0; (325), 1, 1, 0; (374), 1, 1, 0; (375), 1, 1, 0; (405), 2, 2, 26; (419), 1, 1, 0; (511), 2, 2, 31; (516), 1, 1, 0; (521), 1, 1, 0; (554), 2, 2, 24; (654), 1, 1, 0; (686), 1, 1, 0; (704), 1, 1, 0; (1320), 1, 1, 0; (2271), 1, 1, 0; [29, 26, 0*, 2011/03/03-2011/05/27]

291 LPL/Spacewatch II

R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721,

U.S.A. [bob@lpl.arizona.edu]

Observers J. V. Scotti, T. H. Bressi, R. S. McMillan

1.8-m $f/2.7$ reflector + CCD

USNO-B1.0

1998 ME₃, 3, 1, 0; 2000 AP₂₆, 6, 1, 0; 2000 AO₃₇, 3, 1, 0; 2000 SO₃₂₅, 3, 1, 0; 2001 BZ₃₉, 6, 2, 1; 2001 GU₈, 3, 1, 0; 2001 QX₁₃₃, 3, 1, 0; 2001 VB₇₄, 3, 1, 0; 2002 CD₂₃, 3, 1, 0; 2002 CV₇₂, 3, 1, 0; 2002 GZ, 6, 2, 1; 2002 GE₁₁, 3, 1, 0; 2002 GC₁₆, 3, 1, 0; 2002 JX₁₄₉, 3, 1, 0; 2002 KH₃, 3, 1, 0; 2002 ND₇₇, 3, 1, 0; 2002 OA₂₂, 2, 1, 0; 2002 PP₁₈₁, 3, 1, 0; 2002 QB₁₄₆, 3, 1, 0; 2002 QE₁₄₆, 3, 1, 0; 2002 RD₂₇, 3, 1, 0; 2002 RK₃₆, 3, 1, 0; 2002 TY₉₅, 3, 1, 0; 2002 VC₃, 3, 1, 0; 2002 XM₂₁, 6, 1, 0; 2003 ON₁₃, 3, 1, 0; 2003 QC₁₀, 3, 1, 0; 2003 QJ₁₁₂, 3, 1, 0; 2003 RE₁₅, 6, 2, 1359; 2003 SM₈₁, 3, 1, 0; 2003 SH₁₀₆, 3, 1, 0; 2003 UZ₂₀₁, 3, 1, 0; 2003 UR₂₃₆, 3, 1, 0; 2003 YS₉, 3, 1, 0; 2004 RW₁₆₄, 2, 1, 0; 2004 TP₁₂₃, 3, 1, 0; 2004 TQ₁₆₉, 3, 1, 0; 2004 UY₂, 3, 1, 0; 2005 JD₆₅, 3, 1, 0; 2005 SV₁₈₂, 3, 1, 0; 2005 UN₆, 3, 1, 0; 2005 YY₁₄₁, 6, 2, 2; 2006 BE₈₀, 3, 1, 0; 2006 DP₁₃₁, 3, 1, 0; 2006 FG₂, 6, 2, 2772; 2006 FA₁₄, 3, 1, 0; 2006 GG₁₃, 3, 1, 0; 2006 GE₃₉, 3, 1, 0; 2006 HW₄₆, 3, 1, 0; 2006 KF₈₉, 3, 1, 0; 2006 QL₉, 3, 1, 0; 2006 QD₁₀₀, 3, 1, 0; 2006 SA₁₁₈, 6, 1, 0; 2006 SL₁₉₈, 3, 1, 0; 2006 UC₆₃, 5, 2, 1; 2006 UZ₂₃₂, 3, 1, 0; 2007 BA₃₉, 3, 1, 0; 2007 BN₄₁, 3, 1, 0; 2007 BF₇₂, 2, 1, 0; 2007 GF₈, 3, 1, 0; 2007 GE₂₄, 3, 1, 0; 2007 GG₄₁, 3, 1, 0; 2007 HK₈₇, 3, 1, 0; 2007 RM₁₅₁, 3, 1, 0; 2007 RO₂₇₇, 3, 1, 0; 2007 TQ₇₇, 3, 1, 0; 2007 TO₁₂₃, 3, 1, 0; 2007 TH₄₄₉, 3, 1, 0; 2007 VC₉₄, 3, 1, 0; 2007 YS₁₄, 3, 1, 0; 2007 YU₄₇, 3, 1, 0; 2008 GX₁₄₃, 3, 1,

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

2011 HG₄₅, 3, 1, 0; [3, 1, 0*, 1998/03/02]

333 Desert Eagle Observatory

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

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

USNO-A2.0, GSC-ACT

2011 JF₁₆, 3, 1, 0; [3, 1, 0*, 2003/09/26]

346 KNUE Astronomical Observatory

S.-G. Kwon, Korea National University of Education, 7 Darakli Gangnaemyon,
Chongwonkun, Chungbuk 363-791, Republic of Korea

Observer E. O. Jeong

Measurer J. J. Sohn

0.40-m reflector + CCD

USNO-B1.0

(1036), 3, 1, 0; [3, 1, 0*, 2011/06/16]

379 Hamamatsu-Yuto

S. Wakuda, Ufumi 9425-20, Yuto-cho, Hamana-gun, Shizuoka-ken 431-0102, Japan
[caa54120@pop06.odn.ne.jp]

0.25-m $f/5.0$ Schmidt-Cassegrain + CCD

UCAC-3

2008 LV₁₆, 25, 3, 2; 2011 EZ₇₈, 16, 1, 0; (1036), 4, 1, 0; (1917), 11, 2, 1; (7358), 6, 1, 0; (68348),
6, 1, 0; [68, 6, 0*, 2011/07/05-2011/07/11]

413 Siding Spring

C.-I. Lagerkvist, Uppsala Observatory, Box 515, S-75120 Uppsala, Sweden
[classe@astro.uu.se] (8)

Observer B. A. Steininger

Measurer O. Hernius

1.2-m Schmidt

2000 GQ₉, 1, 1, 0; 2004 FD₁₃₀, 1, 1, 0; 2010 FK₁₃, 1, 1, 0; [3, 3, 0*, 1993/04/16]

448 Desert Moon Observatory

B. L. Stevens, 5675 Real del Norte, Las Cruces, NM 88012, U.S.A.
[blslcnm@comcast.net]

0.3-m Schmidt-Cassegrain + CCD

UCAC-3

2001 PD₁, 3, 1, 0; 2008 HE, 5, 1, 0; 2008 RP₁₀₈, 2, 1, 0; 2010 WQ₇, 3, 1, 0; 2011 KN₉, 3, 1, 0;
2011 KK₁₅, 3, 1, 0; 2011 KO₁₇, 5, 1, 0; 2011 KW₁₉, 3, 1, 0; 2011 LC₁₉, 3, 1, 0; 2011 MD, 20, 3,
2; (37336), 6, 1, 0; (62993), 3, 1, 0; (99799), 3, 1, 0; (159504), 1, 1, 0; (163863), 3, 1, 0; [66, 15,
0*, 2011/06/12-2011/06/26]

461 University of Szeged, Piskéztető Stn. (Konkoly)

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

Observers K. Sárneczky, A. Pál, K. Vida

0.60-m Schmidt + CCD

USNO-B1.0

2005 JA₃₃, 2, 1, 0; 2005 WH₅₄, 4, 1, 0; 2006 UC₁₇, 3, 1, 0; 2009 WN₂₅₇, 3, 1, 0; 2010 LG₁₄,
3, 1, 0; 2011 GU₆₉, 3, 1, 0; 2011 LA₁₉, 3, 1, 0; (2049), 6, 1, 0; (2303), 3, 1, 0; (3479), 3, 1, 0;
(21761), 2, 1, 0; (27235), 3, 1, 0; (27747), 2, 1, 0; (43911), 3, 1, 0; (43983), 3, 1, 0; (49043), 3, 1,
0; (58802), 2, 1, 0; (70898), 2, 1, 0; (71761), 3, 1, 0; (105126), 6, 1, 0; (109092), 3, 1, 0; (116612),
2, 1, 0; (127055), 3, 1, 0; (131466), 2, 1, 0; (132761), 2, 1, 0; (136342), 2, 1, 0; (182596), 3, 1, 0;
(183581), 8, 1, 0; (208496), 2, 1, 0; (226680), 3, 1, 0; (237878), 2, 1, 0; (238179), 2, 1, 0; [96, 32,
0*, 2008/09/12-2011/07/07]

510 Siegen

H. Bill, Didaktik der Physik, Adolf-Reichweinstr. 2, 57068 Siegen, Germany

[harald@astro1.physik.uni-siegen.de]

Observers M. Klein, M. Jung, F. Feger, H. Bill

0.43-m $f/4.5$ reflector + CCD

UCAC-3

2003 BK₄₇, 4, 1, 0; 2011 EZ₇₈, 4, 1, 0; 2011 MD, 60, 2, 1; (3268), 4, 1, 0; (10306), 4, 1, 0; [76, 5,
0*, 2011/06/26-2011/06/28]

560 Madonna di Dossobuono

L. Lai, Via Mantovana 130e, I-37062 Dossobuono (Verona), Italy

[astrofil@astbo1.bo.cnr.it]

0.4-m $f/5$ reflector + CCD

UCAC-3

2008 LV₁₆, 4, 1, 0; 2008 TR₁₀, 3, 1, 0; 2011 DL₁₉, 3, 1, 0; 2011 JA₈, 3, 1, 0; 2011 MD, 3, 1, 0;
2011 NY, 3, 1, 0; [19, 6, 0*, 2011/06/26-2011/07/11]

566 Haleakala-NEAT/GEODSS

R. Bambery, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A.

[Raymond.J.Bambery@jpl.nasa.gov]

Observers E. F. Helin, S. H. Pravdo, K. J. Lawrence, S. Groom, C. Clark,

D. Bascon, S. Pravdo, D. L. Rabinowitz

Measurers A. Mimeev, A. Odasso, R. J. Bouma

1.0-m $f/2.2$ GEODSS telescope + CCD

UCAC-2, USNO-B1.0

2003 GE₁, 2, 1, 0; 2007 PW₆, 3, 1, 0; 2008 SJ₄, 3, 1, 0; 2011 HH₃₈, 2, 1, 0; 2011 HV₆₀, 5, 1, 0;
2011 HF₆₃, 3, 1, 0; 2011 HK₆₆, 5, 2, 25; 2011 HJ₆₇, 4, 2, 24; (25023), 3, 1, 0; (35990), 3, 1, 0;
(70212), 3, 1, 0; (87691), 3, 1, 0; (98122), 3, 1, 0; (119755), 3, 1, 0; (135108), 3, 1, 0; [48, 15, 0*,
1996/07/22-1998/02/23]

568 Mauna Kea

D. J. Tholen, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822,
U.S.A. [tholen@cifa.hawaii.edu] (2)

D. D. Balam, Dominion Astrophysical Observatory, 5071 West Saanich Road,
Victoria, BC, Canada [cosmos@uvic.ca] (9)

J. Kavelaars, Dept. of Physics and Astronomy, McMaster University, Hamilton,
ON L8S 4M1, Canada [kavelaars@physics.mcmaster.ca] (15)

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. Yagi, 2-21-1, Osawa, Mitaka, Tokyo, 181-8588, Japan
[yagi.Masafumi@nao.ac.jp] (24)

M. Micheli, Via Ronchi S. Francesco di Paola 52, I-25100 Brescia, Italy
[marco.bs@tiscali.it] (29)

B. Gladman, Dept. of Physics and Astronomy, University of British Columbia, 6224 Agricultural Road, Vancouver, BC V6T 1Z1, Canada
[gladman@astro.ubc.ca] (31)

A. Parker, no details. [alexhp@uvic.ca] (32)
Observers F. Yoshida, M. Yagi, M. Micheli, G. T. Elliott, D. Woodworth,
A. Parker, CFHT Legacy survey, J. Kavelaars
Measurers F. Yoshida, M. Yagi, D. J. Tholen, R. J. Wainscoat, H. Hsieh,
J.-M. Petit, L. Jones, P. Smith, B. Gladman
8.2-m $f/1.8$ Subaru Telescope + CCD, 2.24-m University of Hawaii reflector, 3.6-m
Canada-France-Hawaii Telescope
GSC-2.3, PPMXL, USNO-B1.0

{15} 2006 BR₂₈₄ *, 11, 4, 297; 2006 JZ₈₁ *, 6, 4, 60; [17, 2, 2*, 2006/01/31–2006/11/24]

{19} 2008 AV₁₀₅, 3, 1, 0; 2010 GW₃₄, 3, 1, 0; 2010 UD₉₉, 9, 1, 0; 2010 VP₇₉, 3, 1, 0; 2011 CW₂₇, 3, 1, 0; 2011 KT₇, 3, 1, 0; [24, 6, 0*, 2004/04/26–2007/01/15]

{20} 2002 OG₃₆, 3, 1, 0; 2006 BW₁₉₂, 3, 1, 0; 2010 AK₂₉, 3, 1, 0; 2011 AW₈, 6, 2, 14; 2011 KR₄₇, 3, 1, 0; 2011 LR₆, 3, 1, 0; 2011 MB₃, 3, 1, 0; [24, 7, 0*, 2005/10/07–2005/12/02]

{24} 2009 KK₃₀, 6, 2, 1; 2009 KN₃₀, 7, 2, 1; 2009 KO₃₀, 1, 1, 0; 2010 LP₆₈, 6, 2, 1; 2010 LQ₆₈, 9, 2, 1; [29, 5, 0*, 2011/06/03–2011/06/04]

{2} 2011 KN₉, 3, 1, 0; 2011 KO₃₆ *, 5, 2, 1; 2011 MM₄, 5, 1, 0; [13, 3, 1*, 2011/05/24–2011/06/28]

{9} 2011 JL₂₁, 3, 1, 0; [3, 1, 0*, 2007/07/24]

{29} 2005 YM₃₄, 3, 1, 0; 2011 KM₃₆ *, 6, 2, 1; 2011 KN₃₆ *, 6, 2, 1; 2011 KO₃₆, 2, 1, 0; [17, 4, 2*, 2011/04/05–2011/06/01]

{31} 2006 BR₂₈₄, 3, 1, 0; [3, 1, 0*, 2007/01/19]

{32} 2006 BR₂₈₄, 4, 2, 147; 2006 JZ₈₁, 4, 2, 329; [8, 2, 0*, 2010/04/18–2011/04/01]

595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy
[ccaf@ccaf.it]

Observer E. Pettarin
0.40-m $f/4.5$ reflector + CCD
UCAC-3

2010 XO₅₆, 2, 1, 0; 2011 LF₁₆, 2, 1, 0; 2011 MC, 3, 1, 0; 2011 MD, 10, 3, 2; 2011 MV₁, 2, 1, 0; 2011 MQ₃, 2, 1, 0; [21, 6, 0*, 2011/06/21–2011/06/28]

599 Campo Imperatore–CINEOS

A. Carusi, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome, Italy [cineos@ias.rm.cnr.it]

Observers A. Boattini, N. Napoleone, L. M. Laudì, R. Leoni, A. Di Paola,
A. Giunta, V. Casula, D. Perna

0.60-m $f/3$ Schmidt + CCD
USNO-A2.0

2002 AY₁₆₈, 2, 1, 0; 2002 OC₃₆, 2, 1, 0; 2002 PE₁₉₇, 3, 1, 0; 2004 BN₄₉, 3, 1, 0; 2005 CK₁, 4, 1, 0; 2007 GD₄₈, 4, 1, 0; 2008 SG₁₆₁, 3, 1, 0; 2009 RV₂₇, 3, 1, 0; 2011 GU₆₉, 4, 1, 0; 2011 KL₂₂, 4, 1, 0; 2011 KQ₂₃, 3, 1, 0; [35, 11, 0*, 1996/07/24–2004/08/06]

608 Haleakala-NEAT/MSSS

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

Observers E. F. Helin, S. Pravdo, K. Lawrence, P. Kervin, D. Talent, R. Maeda,
P. Tanner, M. Hicks, D. MacDonald, J. Africano, R. Bamberg, M. Skinner
Measurers A. Mimeev, R. J. Bouma, Z. Xu, A. Odasso, R. Kracht, R. Matson

1.20-m $f/1.5$ reflector + CCD
UCAC-2, USNO-B1.0, USNO-A2.0

2001 PQ₆₇, 10, 2, 27; 2001 TA₂₆₂, 3, 1, 0; 2002 PJ₁₉₇, 3, 1, 0; 2002 PO₁₉₇, 3, 1, 0; 2002 PD₁₉₈, 5, 2, 31; 2002 PG₁₉₈, 3, 1, 0; 2002 QT₁₄₅, 2, 1, 0; 2002 QA₁₄₆, 3, 1, 0; 2002 QR₁₄₆, 6, 2, 49; 2002 RP₂₉₁, 6, 2, 14; 2002 RR₂₉₁ *, 9, 3, 10; 2002 RU₂₉₁ *, 9, 3, 17; 2002 SA₄, 6, 2, 17; 2002 TX₃₈₆ *, 9, 3, 26; 2002 TY₃₈₆, 8, 3, 32; 2002 TZ₃₈₆, 3, 1, 0; 2002 TA₃₈₇, 4, 2, 6; 2002 TB₃₈₇, 5, 2, 6; 2002 VT₁₃₈, 3, 1, 0; 2006 DH₁₇₅, 3, 1, 0; 2006 SQ₇₈, 2, 1, 0; 2007 MB₂₂, 3, 1, 0; 2007 PP₂₃, 3, 1, 0; 2007 RV₁₄₉, 3, 1, 0; 2007 RH₃₁₅, 3, 1, 0; 2008 HS₂₄, 5, 2, 15; 2008 PW₇, 3, 1, 0; 2008 RK₁₀₇, 3, 1, 0; 2008 SX₂₄₁, 3, 1, 0; 2008 XD₃₂, 3, 1, 0; 2009 FW₂₄, 2, 1, 0; 2010 GX₁₅₉, 2, 1, 0; 2010 UD₃₀, 3, 1, 0; 2011 BA₉₃, 3, 1, 0; 2011 CL₃₂, 3, 1, 0; 2011 CJ₇₁, 3, 1, 0; 2011 EP₂₂, 3, 1, 0; 2011 FM₁₅₅, 3, 1, 0; 2011 HS₁₈, 5, 2, 43; 2011 HR₂₈, 2, 1, 0; 2011 HG₃₃, 2, 1, 0; 2011 HV₅₅, 3, 1, 0; 2011 HF₆₃, 2, 1, 0; 2011 HX₇₈, 2, 1, 0; 2011 KP₁₀, 3, 1, 0; 2011 KA₃₄, 3, 1, 0; (138340), 3, 1, 0; (281990), 3, 1, 0; [184, 48, 3*, 1997/02/12–2006/09/19]

620 Observatorio Astronómico de Mallorca

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

Observers S. Sanchez, R. Stoss, J. Nomen
0.30-m $f/9$ Schmidt-Cassegrain + CCD
USNO-B1.0, UCAC-2

2002 PC₁₉₈, 3, 1, 0; [3, 1, 0*, 2007/12/15]

621 Bergisch Gladbach

W. Bickel, Schau ins Land 21, D-51429 Bergisch Gladbach, Germany [0220455671-0001@t-online.de]

0.60-m $f/5.2$ reflector + CCD
UCAC-3

2000 RX₅₃, 3, 1, 0; 2001 RA₁₅, 3, 1, 0; 2002 GQ₁₈₃, 3, 1, 0; 2002 TA₃₈₇, 4, 1, 0; 2006 SH₇₈, 3, 1, 0; 2008 RF₈₀, 6, 2, 1; 2008 UJ₃₅₄, 3, 1, 0; 2008 UW₃₆₈, 3, 1, 0; 2011 CW₈₆, 3, 1, 0; 2011 EF₆₂, 3, 1, 0; 2011 GR₇₄, 4, 1, 0; 2011 HY₆, 3, 1, 0; 2011 HM₃₉, 3, 1, 0; 2011 KX₂₁, 3, 1, 0; 2011 KL₃₈, 3, 1, 0; 2011 LD₄, 3, 1, 0; 2011 LZ₅, 3, 1, 0; 2011 LW₁₇, 3, 1, 0; 2011 LP₂₁ *, 6, 2, 1; (509), 8, 2, 7; (3835), 7, 2, 7; (15368), 4, 1, 0; (20563), 3, 1, 0; (41232), 4, 1, 0; (42463), 3, 1, 0; (53832), 3, 1, 0; (83136), 3, 1, 0; (84661), 3, 1, 0; (93935), 3, 1, 0; (95591), 4, 1, 0; (162909), 3, 1, 0; (192622), 3, 1, 0; (199461), 3, 1, 0; (208338), 3, 1, 0; (232452), 3, 1, 0; (241085), 3, 1, 0; (243049), 3, 1, 0; (276196), 9, 3, 8; [140, 38, 1*, 1997/10/22–2011/07/05]

644 Palomar Mountain/NEAT

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

Observers R. Bamberg, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten,
K. Kuluhiwa, E. F. Helin, J. Africano, D. MacDonald, P. Kervin
Measurers R. J. Bouma, A. Mimeev, Z. Xu, A. Odasso, M. Mašek, S. Kürti,
R. Kracht, R. Matson, H. Bill, D. Chestnov

1.2-m Oschin Schmidt + CCD
USNO-B1.0, UCAC-2, USNO-A2.0, CMC, UCAC-3, NOMAD

1994 WA₁₃, 3, 1, 0; 2001 PQ₆₇ *, 15, 5, 59; 2001 PR₆₇ *, 6, 2, 6; 2001 SF₈₃, 3, 1, 0; 2001 SW₃₅₅ *, 12, 4, 29; 2001 SX₃₅₅ *, 12, 4, 27; 2001 SY₃₅₅ *, 11, 4, 27; 2001 TW₂₆₁ *, 8, 3, 11; 2001 TX₂₆₁ *, 5, 2, 8; 2001 TY₂₆₁ *, 9, 3, 16; 2001 TZ₂₆₁ *, 6, 2, 8; 2001 TA₂₆₂ *, 9, 3, 14; 2001 TB₂₆₂ *, 8, 3, 16; 2001 VY₁₂₈, 5, 2, 33; 2002 AQ₂₁, 3, 1, 0; 2002 DC₂₁ *, 8, 3, 37; 2002 DD₂₁ *, 7, 3, 15; 2002 LG₆₄ *, 6, 3, 25; 2002 MR₆ *, 16, 6, 65; 2002 NT₇₅, 3, 1, 0; 2002 NA₇₆, 3, 1, 0; 2002 NN₇₆, 3, 1, 0; 2002 NO₇₆, 3, 1, 0; 2002 NR₇₆, 3, 1, 0; 2002 NU₇₆, 3, 1, 0; 2002 NW₇₆ *, 16, 5, 46; 2002 NX₇₆ *, 15, 4, 47; 2002 NY₇₆ *, 15, 4, 47; 2002 NZ₇₆ *, 15, 6, 44; 2002 NA₇₇ *, 12, 4, 45; 2002 NB₇₇ *, 11, 4, 46; 2002 NC₇₇ *, 18, 5, 45; 2002 ND₇₇ *, 15, 5, 46; 2002 NE₇₇ *, 20, 6, 46; 2002 NF₇₇ *, 16, 6, 35; 2002 OC₃₆ *, 17, 6, 43; 2002 OD₃₆ *, 12, 4, 46; 2002 OE₃₆ *, 15, 5, 46; 2002 OF₃₆ *, 18, 5, 46; 2002 OG₃₆ *, 15, 5, 46; 2002 OH₃₆ *, 16, 5, 46; 2002 OJ₃₆ *, 14, 5, 1030; 2002 OK₃₆ *, 14, 4, 32; 2002 OL₃₆ *, 16, 6, 36; 2002 PZ₈, 14, 5, 53; 2002 PE₁₇, 14, 5, 55; 2002 PR₁₇, 18, 6, 54; 2002 PV₁₇, 20, 7, 71; 2002 PZ₁₇, 12, 4, 46; 2002 PR₂₅, 12, 3, 46; 2002 PE₁₃₈, 9, 3, 35; 2002 PD₁₉₇ *, 24, 6, 41; 2002 PE₁₉₇ *, 18, 6, 54; 2002 PF₁₉₇ *, 20, 7, 54; 2002 PG₁₉₇ *, 14, 5, 41; 2002 PH₁₉₇ *, 21, 7, 64; 2002 PJ₁₉₇ *, 21, 7, 1504; 2002 PK₁₉₇ *, 14, 5, 41; 2002 PL₁₉₇ *, 18, 5, 44; 2002 PM₁₉₇ *, 9, 4, 31; 2002 PN₁₉₇ *, 8, 3, 8; 2002 PO₁₉₇ *, 17, 6, 64; 2002 PP₁₉₇ *, 16, 5, 31; 2002 PQ₁₉₇ *, 23, 7, 55; 2002 PR₁₉₇ *, 21, 7, 45; 2002 PS₁₉₇ *, 17, 6, 35; 2002 PT₁₉₇ *, 12, 4, 36; 2002 PU₁₉₇ *, 14, 4, 34; 2002 PV₁₉₇ *, 12, 4, 34; 2002 PW₁₉₇ *, 17,

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 F. Hornmuth, Max-Planck-Institut für Astronomie, Königstuhl, D-69117 Heidelberg, Germany [hornmuth@mpia.de] (22)
 D. Rabinowitz, Center for Astronomy and Astrophysics, P.O. Box 208121, Yale University, New Haven, CT 06512, U.S.A. (37)
 [david.rabinowitz@yale.edu]

Observers D. Rabinowitz, M. E. Schwamb, S. Tourtellotte
 1.3-m reflector + CCD
 USNO-A2.0
 {22} 2011 HU₁₂, 3, 1, 0; [3, 1, 0*, 2004/08/22]

{4} 2010 VZ₅₄, 3, 1, 0; [3, 1, 0*, 1993/10/09]

{8} 2002 PD₁₉₇, 1, 1, 0; 2002 QR₁₄₆, 1, 1, 0; 2003 CJ₇, 1, 1, 0; 2004 HC₉, 1, 1, 0; 2006 VS₄₃, 1, 1, 0; 2010 GW₆₆, 1, 1, 0; 2011 BP₇₈, 1, 1, 0; 2011 BS₇₉, 2, 2, 5; 2011 EG₁₃, 1, 1, 0; 2011 HY₈₂, 1, 1, 0; [11, 10, 0*, 1992/03/01–1995/09/23]

{9} 2005 MP₃₀, 3, 1, 0; 2006 QO₁₂₅, 3, 1, 0; 2011 EN₃₅, 3, 1, 0; [9, 3, 0*, 2002/06/03–2005/02/16]

{37} 2011 JF₃₁ *, 5, 2, 22; 2011 JG₃₁ *, 5, 2, 23; [10, 2, 2*, 2011/05/03–2011/05/27]

844 Los Molinos

G. Tancredi, Departamento Astronomia, Facultad Ciencias, Igua 4225, UY-11400 Montevideo, Uruguay [gonzalo@fisica.edu.uy]

Observers R. Salvo, S. Roland, S. Bruzzone, G. Tancredi, M. Martinez
 Measurers R. Salvo, N. Martinez, T. Leibner, S. Bruzzone
 0.35-m reflector + CCD, 0.35-m Newtonian reflector + CCD
 USNO-B1.0

2011 HO, 9, 2, 7; 2011 NZ, 6, 1, 0; (5502), 4, 1, 0; [19, 3, 0*, 2011/07/03–2011/07/10]

850 Cordell-Lorenz Observatory, Sewanee

D. T. Durig, SPO 1242, Sewanee, TN 37383, U.S.A. [ddurig@sewanee.edu]

Observers D. T. Durig, J. R. Uriostegui, J. T. Tran, T. D. Strickland,
 S. E. Emerson, E. M. Nichols, J. R. Edman, J. F. Danusantoso, S. Kharel,
 D. E. Duenas, A. C. Rice

Measurers D. T. Durig, E. M. Nichols, T. D. Strickland, J. A. Torres Perez,
 C. L. Murp, G. V. Essix, K. A. Williams, T. A. Morris, A. C. Rice,
 J. A. Va, D. E. Duenas, S. Kharel, A. C. Grishaw, S. E. Emerson,
 A. R. Guhlin, J. R. Edman, E. C. Johnson, J. F. Danusantoso, J. A. Vasquez,
 C. L. Murphree, E. S. Koury, J. R. Uriostegui

0.30-m Schmidt-Cassegrain + CCD
 UCAC-2

2011 MD, 4, 1, 0; [4, 1, 0*, 2011/06/25]

854 Sabino Canyon Observatory, Tucson

J. E. McGaha, 5100 Sabino Foothills, Tucson, AZ 85750, U.S.A.

[mcgaha@skepticus.com]

0.36-m $f/10.0$ Schmidt-Cassegrain + CCD
 USNO-A2.0

2011 MC, 3, 1, 0; 2011 MD, 3, 1, 0; 2011 ME, 3, 1, 0; [9, 3, 0*, 2011/06/22–2011/06/23]

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

2002 PG₁₉₇, 3, 1, 0; [3, 1, 0*, 1998/08/01–1998/08/02]

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, S. Abe, J. K. Guo, W. P. Chen
 0.41-m $f/3.75$ astrograph + CCD, 0.81-m $f/7$ Ritchey-Chrétien + CCD
 USNO-B1.0, USNO-A2.0

1999 TA₁₆₆, 3, 1, 0; 1999 TO₂₄₄, 6, 2, 13; 1999 VH₁, 3, 1, 0; 2000 SP₂₀, 3, 1, 0; 2000 SZ₃₁, 3, 1, 0; 2000 WY₅₀, 3, 1, 0; 2000 WB₁₆₅, 3, 1, 0; 2001 AF₈, 3, 1, 0; 2001 MV₁, 3, 1, 0; 2001 ON₅₅, 3, 1, 0; 2001 QK₁₆₆, 3, 1, 0; 2001 QG₂₆₈, 3, 1, 0; 2001 RJ₃, 3, 1, 0; 2001 SA₂₂₃, 3, 1, 0; 2001 SW₃₄₄, 3, 1, 0; 2001 XX₉₆, 3, 1, 0; 2002 AA₇, 3, 1, 0; 2002 CU₂₀₈, 3, 1, 0; 2002 CP₃₀₄, 3, 1, 0; 2002 CW₃₀₉, 3, 1, 0; 2002 EK₃₃, 3, 1, 0; 2002 GJ₆, 3, 1, 0; 2002 JX₄₉, 3, 1, 0; 2002 JH₆₇, 3, 1, 0; 2002 JJ₁₄₅, 3, 1, 0; 2002 PX₈₉, 3, 1, 0; 2002 SD₆₂, 3, 1, 0; 2002 TD₁₃₂, 3, 1, 0; 2002 TA₃₈₂, 3, 1, 0; 2002 TG₃₈₄, 3, 1, 0; 2003 ON₁₈, 3, 1, 0; 2003 PR₉, 3, 1, 0; 2003 QN₂₃, 6, 2, 10; 2003 SD₅₀, 6, 2, 18; 2003 SO₅₆, 3, 1, 0; 2003 SH₃₃₆, 3, 1, 0; 2003 TR₂₁, 6, 2, 1; 2003 UX₁₄, 3, 1, 0; 2003 UZ₃₂₃, 3, 1, 0; 2003 WU₈₆, 3, 1, 0; 2003 YB₆₃, 3, 1, 0; 2004 DX₄₃, 3, 1, 0; 2004 EG₄₆, 3, 1, 0; 2004 GN₅₅, 3, 1, 0; 2004 GB₆₀, 3, 1, 0; 2004 HT₂₉, 3, 1, 0; 2004 NT₈, 3, 1, 0; 2004 NL₁₈, 3, 1, 0; 2004 NW₁₉, 3, 1, 0; 2004 NW₃₂, 6, 2, 3; 2004 PS₁, 3, 1, 0; 2004 PB₁₅, 3, 1, 0; 2004 PJ₂₄, 3, 1, 0; 2004 PS₃₀, 3, 1, 0; 2004 PJ₄₈, 3, 1, 0; 2004 RU₂₃₄, 3, 1, 0; 2004 UY₂, 3, 1, 0; 2004 VX₂₀, 3, 1, 0; 2004 VK₂₈, 3, 1, 0; 2004 XX₇, 3, 1, 0; 2004 XW₃₅, 3, 1, 0; 2004 XZ₈₀, 3, 1, 0; 2005 CG₄, 3, 1, 0; 2005 EW₁₃₈, 3, 1, 0; 2005 EV₁₄₅, 3, 1, 0; 2005 HR₇, 3, 1, 0; 2005 JW₁₃₈, 3, 1, 0; 2005 SE₃₄, 3, 1, 0; 2005 UW₃₁₂, 3, 1, 0; 2005 WE₅₄, 3, 1, 0; 2005 WA₆₉, 3, 1, 0; 2006 BZ₁₄, 3, 1, 0; 2006 BY₃₇, 3, 1, 0; 2006 BC₁₂₂, 3, 1, 0; 2006 DD₁₅, 3, 1, 0; 2006 DB₉₁, 3, 1, 0; 2006 DJ₂₀₆, 3, 1, 0; 2006 DR₂₁₄, 3, 1, 0; 2006 ET₃₉, 3, 1, 0; 2006 FB₅₀, 3, 1, 0; 2006 GE₄₉, 3, 1, 0; 2006 HU₄₉, 3, 1, 0; 2006 PA₁₉, 3, 1, 0; 2006 PP₂₀, 3, 1, 0; 2007 CF₃₅, 3, 1, 0; 2007 DF₃₃, 3, 1, 0; 2007 ER₁₅₆, 3, 1, 0; 2007 EQ₁₆₀, 6, 2, 1; 2007 FZ₃₀, 3, 1, 0; 2007 GQ₃₀, 3, 1, 0; 2007 HN₁₁, 3, 1, 0; 2007 HV₂₇, 3, 1, 0; 2007 HE₉₂, 3, 1, 0; 2007 MJ₂₇, 3, 1, 0; 2007 PM₃₀, 3, 1, 0; 2007 PQ₄₀, 3, 1, 0; 2007 PH₄₉, 3, 1, 0; 2007 RC₃₂, 3, 1, 0; 2007 RF₂₃₃, 3, 1, 0; 2007 RE₃₂₄, 3, 1, 0; 2007 TR₃₂, 3, 1, 0; 2007 TD₃₂₈, 3, 1, 0; 2007 TZ₄₁₁, 3, 1, 0; 2008 CM₆, 2, 1; 2008 OX₃, 3, 1, 0; 2008 RF₁₃₀, 3, 1, 0; 2008 SZ₉, 3, 1, 0; 2008 SE₂₆, 3, 1, 0; 2008 SC₁₅₂, 3, 1, 0; 2008 SM₂₆₈, 3, 1, 0; 2008 SB₂₈₃, 3, 1, 0; 2008 TN₈₉, 3, 1, 0; 2008 TR₁₃₉, 3, 1, 0; 2008 UB₁₂₈, 3, 1, 0; 2008 UR₁₃₈, 3, 1, 0; 2008 UX₁₅₉, 3, 1, 0; 2008 UL₂₀₃, 3, 1, 0; 2008 UJ₂₄₃, 3, 1, 0; 2008 VY₇₈, 3, 1, 0; 2008 WH₅₀, 3, 1, 0; 2008 WA₆₈, 3, 1, 0; 2008 XH₃₉, 3, 1, 0; 2008 YV₂₉, 3, 1, 0; 2009 AD₄₇, 3, 1, 0; 2009 DH₄₆, 3, 1, 0; 2009 US₃, 3, 1, 0; 2009 WA₃₃, 3, 1, 0; 2010 CY₃₅, 3, 1, 0; 2010 FY₈₃, 3, 1, 0; 2011 DL₁₉, 3, 1, 0; 2011 FR₁₄₂, 3, 1, 0; 2011 GS₆₃, 3, 1, 0; 2011 GU₇₈, 2, 1, 0; 2011 JS₁₂, 3, 1, 0; 2011 JO₃₀, 3, 1, 0; 2011 KE₄, 6, 2, 2; 2011 KE₇, 3, 1, 0; 2011 KL₇, 3, 1, 0; 2011 KU₈, 3, 1, 0; 2011 KY₈, 6, 2, 37; 2011 KU₁₁, 3, 1, 0; 2011 KV₁₁, 3, 1, 0; 2011 KQ₁₅, 3, 1, 0; 2011 KX₂₈, 6, 2, 1; 2011 KX₂₉, 3, 1, 0; 2011 KB₃₀, 3, 1, 0; 2011 KV₃₁, 3, 1, 0; 2011 KO₃₃, 3, 1, 0; 2011 KZ₃₇, 3, 1, 0; 2011 KR₃₈ *, 3, 1, 0; 2011 KM₃₉, 3, 1, 0; 2011 KL₄₂ *, 3, 1, 0; 2011 KK₄₃, 3, 1, 0; 2011 KS₄₇, 3, 1, 0; 2011 LN₃, 3, 1, 0; 2011 LM₄, 3, 1, 0; 2011 LK₅, 3, 1, 0; 2011 LR₉, 3, 1, 0; 2011 LF₁₁, 3, 1, 0; 2011 LX₁₂, 3, 1, 0; 2011 LL₁₅, 3, 1, 0; 2011 LO₁₅, 3, 1, 0; 2011 LS₁₅, 3, 1, 0; 2011 LF₁₆, 3, 1, 0; 2011 LN₁₉, 2, 1, 0; 2011 LQ₁₉, 3, 1, 0; 2011 LZ₁₉ *, 8, 15; 2011 LB₂₁ *, 10, 4, 4; 2011 LD₂₁, 6, 1, 0; 2011 LE₂₁, 6, 1, 0; 2011 LJ₂₆, 3, 1, 0; 2011 LU₂₆ *, 3, 1, 0; 2011 MG *, 3, 1, 0; 2011 MH *, 3, 1, 0; 2011 MP *, 3, 1, 0; 2011 MJ₁ *, 3, 1, 0; 2011 MQ₁ *, 3, 1, 0; 2011 MY₃, 3, 1, 0; 2011 MM₄, 10, 1, 0; 2011 MM₅ *, 3, 1, 0; 2011 MU₅ *, 3, 1, 0; 2011 MV₅ *, 3, 1, 0; 2011 MY₅ *, 3, 1, 0; 2011 MZ₅ *, 3, 1, 0; 2011 MO₆ *, 6, 2, 1; 2011 MP₆ *, 6, 2, 1; 2011 MQ₆ *, 3, 1, 0; 2011 MS₆ *, 3, 1, 0; 2011 MN₇ *, 3, 1, 0; 2011 MS₇ *, 3, 1, 0; 2011 MX₇ *, 6, 2, 3; 2011 ML₈ *, 3, 1, 0; 2011 MQ₈ *, 3, 1, 0; (274), 3, 1, 0; (295), 6, 2, 3; (430), 3, 1, 0; (492), 3, 1, 0; (583), 3, 1, 0; (590), 3, 1, 0; (789), 3, 1, 0; (889), 3, 1, 0; (959), 3, 1, 0; (1162), 3, 1, 0; (1251), 3, 1, 0; (1258), 3, 1, 0; (1259), 3, 1, 0; (1291), 3, 1, 0; (1302), 3, 1, 0; (1332), 3, 1, 0; (1401), 6, 2, 3; (1472), 3, 1, 0; (1553), 3, 1, 0; (1829), 6, 2, 10; (1854), 3, 1, 0; (2000), 3, 1, 0; (2020), 3, 1, 0; (2056), 3, 1, 0; (2076), 3, 1, 0; (2092), 3, 1, 0; (2136), 3, 1, 0; (2165), 3, 1, 0; (2178), 3, 1, 0; (2227), 3, 1, 0; (2278), 3, 1, 0; (2293), 3, 1, 0; (2295), 3, 1, 0; (2395), 3, 1, 0; (2498), 3, 1, 0; (2516), 3, 1, 0; (2596), 3, 1, 0; (2785), 3, 1, 0; (2879), 3, 1, 0; (2891), 3, 1, 0; (2908), 3, 1, 0; (2926), 3, 1, 0; (2995), 3, 1, 0; (3007), 3, 1, 0; (3084), 3, 1, 0; (3130), 3, 1, 0; (3218), 3, 1, 0; (3230), 3, 1, 0; (3246), 3, 1, 0; (3288), 3, 1, 0; (3308), 3, 1, 0; (3374), 3, 1, 0; (3399), 3, 1, 0; (3458), 3, 1, 0; (3479), 3, 1, 0; (3492), 3, 1, 0; (3539), 3, 1, 0; (3587), 3, 1, 0; (3598), 3, 1, 0; (3758), 3, 1, 0; (3803), 3, 1, 0; (3823), 3, 1, 0; (3889), 3, 1, 0; (3902), 3, 1, 0; (3903), 3, 1, 0; (3907), 3, 1, 0; (3935), 3,

(173771), 3, 1, 0; (173781), 3, 1, 0; (175101), 3, 1, 0; (175475), 3, 1, 0; (182087), 3, 1, 0; (183230), 3, 1, 0; (187034), 3, 1, 0; (188051), 3, 1, 0; (188580), 3, 1, 0; (190326), 3, 1, 0; (190331), 3, 1, 0; (190426), 3, 1, 0; (190449), 3, 1, 0; (190556), 3, 1, 0; (190564), 3, 1, 0; (190626), 3, 1, 0; (190730), 3, 1, 0; (190886), 3, 1, 0; (190940), 3, 1, 0; (191018), 3, 1, 0; (191587), 3, 1, 0; (191917), 3, 1, 0; (191940), 3, 1, 0; (191951), 3, 1, 0; (191982), 3, 1, 0; (191992), 3, 1, 0; (192335), 3, 1, 0; (192456), 3, 1, 0; (192598), 3, 1, 0; (192720), 3, 1, 0; (193196), 3, 1, 0; (193236), 3, 1, 0; (193244), 3, 1, 0; (193362), 3, 1, 0; (193433), 3, 1, 0; (193541), 3, 1, 0; (193693), 3, 1, 0; (193717), 3, 1, 0; (193775), 3, 1, 0; (193827), 3, 1, 0; (193883), 3, 1, 0; (193898), 3, 1, 0; (194111), 3, 1, 0; (194270), 3, 1, 0; (194620), 3, 1, 0; (194983), 3, 1, 0; (195170), 3, 1, 0; (195201), 3, 1, 0; (195281), 3, 1, 0; (195323), 3, 1, 0; (195428), 3, 1, 0; (195430), 3, 1, 0; (195541), 3, 1, 0; (195593), 3, 1, 0; (196250), 3, 1, 0; (196252), 3, 1, 0; (196325), 3, 1, 0; (196398), 3, 1, 0; (196528), 3, 1, 0; (196620), 3, 1, 0; (197757), 3, 1, 0; (197761), 3, 1, 0; (197844), 3, 1, 0; (197950), 3, 1, 0; (198008), 3, 1, 0; (198113), 3, 1, 0; (198742), 3, 1, 0; (198808), 6, 2, 1; (198874), 3, 1, 0; (199037), 3, 1, 0; (200103), 3, 1, 0; (200202), 3, 1, 0; (200333), 3, 1, 0; (200606), 3, 1, 0; (200721), 3, 1, 0; (200732), 3, 1, 0; (200844), 3, 1, 0; (201070), 3, 1, 0; (201079), 3, 1, 0; (201088), 3, 1, 0; (201168), 3, 1, 0; (201610), 3, 1, 0; (201721), 3, 1, 0; (201853), 3, 1, 0; (202497), 3, 1, 0; (202946), 3, 1, 0; (203110), 3, 1, 0; (203150), 3, 1, 0; (204028), 3, 1, 0; (204037), 3, 1, 0; (204139), 3, 1, 0; (204604), 3, 1, 0; (204814), 3, 1, 0; (204826), 3, 1, 0; (206079), 3, 1, 0; (206432), 3, 1, 0; (206459), 3, 1, 0; (206478), 3, 1, 0; (206508), 3, 1, 0; (206521), 3, 1, 0; (206611), 3, 1, 0; (206640), 3, 1, 0; (206810), 3, 1, 0; (206823), 3, 1, 0; (207311), 3, 1, 0; (208494), 3, 1, 0; (210213), 3, 1, 0; (210678), 3, 1, 0; (210956), 3, 1, 0; (214516), 3, 1, 0; (215530), 3, 1, 0; (217552), 3, 1, 0; (223178), 3, 1, 0; (226578), 3, 1, 0; (228631), 3, 1, 0; (229160), 3, 1, 0; (229527), 3, 1, 0; (229700), 3, 1, 0; (229850), 3, 1, 0; (230016), 3, 1, 0; (230116), 6, 2, 1; (230362), 3, 1, 0; (230364), 3, 1, 0; (230378), 3, 1, 0; (230409), 3, 1, 0; (231034), 3, 1, 0; (231152), 3, 1, 0; (231213), 3, 1, 0; (231217), 3, 1, 0; (231285), 3, 1, 0; (231337), 3, 1, 0; (231361), 3, 1, 0; (231365), 3, 1, 0; (231466), 3, 1, 0; (231791), 3, 1, 0; (231941), 3, 1, 0; (231983), 3, 1, 0; (232160), 3, 1, 0; (232323), 3, 1, 0; (232701), 6, 2, 2; (232737), 3, 1, 0; (232978), 3, 1, 0; (233062), 3, 1, 0; (233125), 3, 1, 0; (233748), 3, 1, 0; (233887), 3, 1, 0; (233980), 3, 1, 0; (234028), 3, 1, 0; (234153), 3, 1, 0; (234471), 3, 1, 0; (234690), 3, 1, 0; (234762), 3, 1, 0; (234879), 3, 1, 0; (235503), 3, 1, 0; (235789), 3, 1, 0; (235854), 3, 1, 0; (236061), 3, 1, 0; (236081), 3, 1, 0; (236088), 3, 1, 0; (236206), 3, 1, 0; (236870), 3, 1, 0; (237120), 3, 1, 0; (237268), 3, 1, 0; (237454), 3, 1, 0; (237623), 6, 2, 1; (237878), 3, 1, 0; (237993), 3, 1, 0; (238126), 3, 1, 0; (238179), 3, 1, 0; (238725), 3, 1, 0; (238734), 3, 1, 0; (238744), 3, 1, 0; (238954), 3, 1, 0; (239097), 3, 1, 0; (239202), 3, 1, 0; (239403), 3, 1, 0; (239606), 3, 1, 0; (240051), 3, 1, 0; (241577), 3, 1, 0; (242589), 3, 1, 0; (242601), 3, 1, 0; (242914), 3, 1, 0; (244387), 3, 1, 0; (244402), 3, 1, 0; (244588), 3, 1, 0; (244686), 3, 1, 0; (244978), 3, 1, 0; (245448), 3, 1, 0; (245883), 3, 1, 0; (245890), 3, 1, 0; (245991), 3, 1, 0; (246217), 3, 1, 0; (246286), 3, 1, 0; (248084), 3, 1, 0; (248126), 3, 1, 0; (248233), 3, 1, 0; (267759), 3, 1, 0; (271076), 3, 1, 0; (277141), 3, 1, 0; (277829), 3, 1, 0; (277936), 3, 1, 0; (279759), 6, 2, 1; (279857), 3, 1, 0; (279903), 3, 1, 0; (280052), 3, 1, 0; (280083), 3, 1, 0; (280085), 3, 1, 0; (280105), 3, 1, 0; (280108), 3, 1, 0; (280174), 3, 1, 0; (280252), 3, 1, 0; (280256), 3, 1, 0; (280280), 3, 1, 0; (280470), 3, 1, 0; (280481), 3, 1, 0; (280486), 3, 1, 0; (280611), 3, 1, 0; (280632), 3, 1, 0; (280650), 3, 1, 0; (280651), 3, 1, 0; (280694), 3, 1, 0; (280699), 3, 1, 0; (280785), 3, 1, 0; (280990), 3, 1, 0; (281250), 3, 1, 0; (281254), 3, 1, 0; (281273), 3, 1, 0; (281296), 3, 1, 0; (281633), 3, 1, 0; (281670), 3, 1, 0; (281846), 3, 1, 0; [6578, 2086, 23*, 2003/06/27–2011/07/02]

939 Observatorio Rodeno

J. Castellano, Av. Primado Reig 183, E-46020 Valencia, Spain [julioc@ono.com]

0.20-m *f*/10 Schmidt-Cassegrain + CCD

CMC

2011 MD, 5, 1, 0; [5, 1, 0*, 2011/06/26]

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, M. Ferrando

0.40-m *f*/10 Ritchey-Chrétien + CCD

UCAC-2, USNO-SA2.0

2004 QG₂₄, 5, 1, 0; 2007 XG₁₅, 3, 1, 0; 2011 MD, 5, 1, 0; 2011 MN₁ *, 14, 4, 13; [27, 4, 1*, 2007/07/14–2011/07/08]

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)

J.-M. Petit, no details supplied (25)

{23} 2011 GW₇₉, 5, 1, 0; [5, 1, 0*, 2009/11/14]

{3} 2005 SF₅, 3, 1, 0; 2011 KB₁, 3, 1, 0; 2011 KK₆, 3, 1, 0; 2011 KT₇, 3, 1, 0; [12, 4, 0*, 2002/11/01–2002/11/05]

{25} 2005 UF₃₇₁, 9, 2, 1; (1925), 3, 1, 0; (160637), 3, 1, 0; [15, 3, 0*, 2011/06/04–2011/06/05]

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-3

2011 MD, 5, 1, 0; [5, 1, 0*, 2011/06/26]

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-3

2006 BD₉₆, 2, 1, 0; 2008 RJ₁, 4, 2, 1; 2011 EZ₇₈, 7, 1, 0; 2011 HS₅₃, 2, 1, 0; 2011 MD, 6, 1, 0; (3988), 2, 1, 0; (63348), 4, 1, 0; (91102), 2, 1, 0; (174050), 2, 1, 0; (267759), 5, 2, 8; [36, 10, 0*, 2011/06/26–2011/07/05]

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

2010 TZ₁₅, 3, 1, 0; [3, 1, 0*, 2010/11/04]

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-2, USNO-B1.0

2000 SV₁₃₆, 3, 1, 0; 2001 RZ₁₁, 6, 2, 7; 2003 BK₄₇, 3, 1, 0; 2004 QG₂₄, 3, 1, 0; 2011 KD₂₀, 3, 1, 0; 2011 LD₁₉, 9, 3, 11; 2011 MD, 4, 1, 0; 2011 ME, 6, 2, 2; 2011 MK, 6, 2, 5; 2011 MV₁, 3, 1, 0; 2011 MW₁, 2, 1, 0; 2011 MO₄, 3, 1, 0; 2011 NP, 3, 1, 0; 2011 NY, 3, 1, 0; [57, 14, 0*, 2011/06/26–2011/07/12]

A24 New Millennium Observatory, Mozzate

E. Cozzi, Via Borghi 14, I-22076 Mozzate, Italy [new.millennium@tin.it]

0.36-m *f*/7.6 Schmidt-Cassegrain + CCD

USNO-A2.0

2003 AL₇₃, 4, 1, 0; 2004 JO₂, 6, 2, 13; 2004 LH, 4, 1, 0; 2008 VH, 4, 1, 0; 2009 WW₁₀₄, 5, 1, 0; 2010 NJ₁, 4, 1, 0; 2011 EZ₇₈, 6, 2, 1; 2011 GQ₆₅, 2, 1, 0; 2011 JA₈, 4, 1, 0; 2011 JP₂₉, 6, 2, 13; 2011 KN₉, 6, 2, 13; 2011 KP₁₇, 2, 1, 0; 2011 LT₁₇, 2, 1, 0; 2011 LA₁₉, 4, 1, 0; (2), 8, 2, 1; (166), 8, 2, 1; (183), 8, 2, 1; (185), 8, 2, 1; (194), 8, 2, 1; (226), 4, 1, 0; (273), 8, 2, 1; (304), 4, 1, 0; (323), 4, 1, 0; (357), 6, 2, 1; (531), 8, 3, 17; (581), 9, 3, 17; (625), 4, 2, 1; (631), 2, 1, 0; (1036), 12, 3, 6; (1051), 8, 2, 1; (1069), 10, 3, 17; (1070), 4, 1, 0; (1264), 8, 2, 1; (1320), 10, 3, 17; (1326), 10, 3, 17; (1355), 4, 1, 0; (1428), 4, 1, 0; (1461), 4, 1, 0; (1466), 8, 2, 1; (1727), 4, 1, 0; (1866), 8, 2, 13; (1867), 2, 1, 0; (1917), 6, 2, 13; (2048), 6, 2, 1; (2083), 2, 1, 0; (2150), 6, 2, 1; (2152), 2, 1, 0; (2272), 2, 1, 0; (2291), 4, 1, 0; (2696), 4, 1, 0; (3103), 6, 2, 1; (3288), 8, 3, 13; (3318), 8, 2, 1; (3398), 4, 1, 0; (3728), 2, 1, 0; (3767), 6, 2, 16; (3812), 12, 3, 17; (3988), 8, 3, 6; (4034), 2, 1, 0; (4056), 2, 1, 0; (4582), 10, 3, 17; (4666), 3, 1, 0; (4709), 2, 1, 0; (5122), 2, 1, 0; (5222), 7, 2, 1; (5234), 2, 1, 0; (5294), 4, 1, 0; (5461), 2, 1, 0; (5489), 6, 2, 16; (5496), 2, 1, 0; (5632), 10, 3, 17; (5736), 4, 1, 0; (6084), 2, 1, 0; (6094), 2, 1, 0; (6394), 4, 1, 0; (6466), 4, 1, 0; (6613), 6, 2,

1; (6859), 4, 1, 0; (7482), 6, 2, 13; (7750), 2, 1, 0; (7757), 6, 2, 1; (7784), 2, 1, 0; (7885), 4, 2, 1; (9965), 2, 1, 0; (10159), 4, 1, 0; (10187), 6, 2, 1; (11705), 2, 1, 0; (11889), 4, 1, 0; (13003), 4, 1, 0; (14315), 2, 1, 0; (15488), 2, 1, 0; (18369), 4, 1, 0; (18591), 4, 1, 0; (18615), 2, 1, 0; (19130), 4, 1, 0; (20086), 4, 1, 0; (23184), 4, 1, 0; (26649), 2, 1, 0; (27366), 2, 1, 0; (27476), 2, 1, 0; (27477), 4, 1, 0; (31547), 4, 1, 0; (33745), 2, 1, 0; (34781), 2, 1, 0; (37187), 2, 1, 0; (37336), 7, 2, 13; (46037), 6, 2, 1; (68348), 11, 4, 13; (77645), 4, 1, 0; (86454), 2, 1, 0; (97257), 4, 1, 0; (136108), 2, 1, 0; (137170), 11, 3, 6; (162474), 4, 1, 0; (163250), 6, 2, 13; (263976), 2, 1, 0; (267759), 4, 1, 0; (275714), 6, 2, 13; [567, 118, 0*, 2011/05/28-2011/06/19]

A27 Eridanus Observatory, Langelsheim

E. Meyer, am Borbergsbach 18, D-38685 Langelsheim, Germany

[eckart.meyer@tu-clausthal.de]

0.15-m refractor + CCD

UCAC-3

2011 EZ₇₈, 9, 1, 0; [9, 1, 0*, 2011/06/28]

A48 Povegliano Veronese

F. Rossetti, Via Di Vittorio 6, Povegliano Veronese (Verona), Italy

[rosfla@libero.it]

0.30-m $f/5$ reflector + CCD

USNO-A2.0

2008 LV₁₆, 4, 1, 0; 2011 DL₁₉, 4, 1, 0; 2011 EZ₇₈, 19, 4, 11; 2011 KN₉, 4, 1, 0; 2011 KP₁₇, 4, 1, 0; 2011 LA₁₉, 4, 1, 0; 2011 MD, 5, 1, 0; [44, 7, 0*, 2011/06/15-2011/07/03]

A50 Andrushivka Astronomical Observatory

Y. Ivashchenko, 3-7 Observatorna Sreet, Andrushivka, Zhytomyr reg, Ukraine

[yurets@gluk.org]

0.6-m reflector + CCD

UCAC-3

2011 LW₁₇, 3, 1, 0; [3, 1, 0*, 2011/05/28]

A53 Peschiera del Garda

R. Bianco, via della repubblica 31, I-37019 Peschiera del Garda, Italy

[robertobianco1950@libero.it]

0.25-m Schmidt-Cassegrain + CCD

USNO-A2.0

2011 EZ₇₈, 11, 2, 3; 2011 KP₁₇, 3, 1, 0; 2011 LA₁₉, 4, 1, 0; [18, 3, 0*, 2011/06/20-2011/06/23]

A55 Osservatorio Astronomico Vallemare di Borbona

V. S. Casulli, via Monte Rosa 1, I-00012 Colleverde di Guidonia (RM), Italy

[v.casulli@libero.it]

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

UCAC-3

2007 HX₁₄, 6, 2, 9; [6, 1, 0*, 2011/07/01-2011/07/10]

A71 Stixendorf

W. Vollmann, Dammaeckergasse 28/D1/20, A-1210 Wien, Austria

[vollmann@gmx.at]

Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann

0.25-m $f/3.8$ reflector + CCD

UCAC-3

(12571), 9, 1, 0; [9, 1, 0*, 2011/06/12-2011/06/13]

A74 Bergen-Enkheim Observatory

U. Suessenberger, Hohe Strasse 14, D-60388 Frankfurt, Germany

[u.suessenberger@t-online.de]

0.4-m $f/4$ reflector + CCD

UCAC-3

2009 WR₆, 3, 1, 0; 2011 NY, 4, 1, 0; [7, 2, 0*, 2011/07/11-2011/07/12]

A77 Observatoire Chante-Perdrix, Dauban

F. Kugel, Chante Perdrix, Dauban, F-04150 Banon, France [fkugel@wanadoo.fr]

Observers C. Rinner, F. Kugel

0.5-m $f/3$ reflector + CCD

UCAC-3, USNO-A2.0

2001 NZ₄, 3, 1, 0; 2002 PB₁₉₈, 3, 1, 0; 2002 TB₂₃₁, 2, 1, 0; 2003 UF₆₂, 3, 1, 0; 2004 BS₁₀₀, 3, 1, 0; 2004 TB₅₄, 3, 1, 0; 2004 TA₁₁₆, 3, 1, 0; 2004 XD₂₈, 3, 1, 0; 2005 ED₈₀, 6, 2, 9; 2005 WM₃₄, 3, 1, 0; 2006 SS₂₄₉, 6, 2, 9; 2006 UR₁₈₉, 2, 1, 0; 2007 PZ₂₂, 6, 2, 4; 2007 YE₄₀, 3, 1, 0; 2008 SW₁₇₅, 3, 1, 0; 2008 UV₁₇₃, 3, 1, 0; 2011 HJ₂₅, 3, 1, 0; 2011 HG₅₀, 3, 1, 0; 2011 KM₁₉, 6, 2, 1; 2011 KK₂₃, 3, 1, 0; 2011 MD, 4, 1, 0; 2011 MA₃ *, 8, 3, 4; 2011 MB₃ *, 7, 3, 4; 2011 MC₃, 6, 2, 1; 2011 MW₄ *, 6, 2, 4; 2011 NA *, 5, 2, 1; 2011 NB *, 6, 2, 1; 2011 NS *, 6, 2, 4; 2011 NT *, 6, 2, 3; 2011 NU *, 6, 2, 3; (182), 9, 3, 4; (656), 3, 1, 0; (776), 3, 1, 0; (868), 6, 2, 1; (1539), 3, 1, 0; (1723), 3, 1, 0; (2164), 9, 3, 7; (2297), 3, 1, 0; (2733), 3, 1, 0; (2969), 6, 2, 5; (3538), 6, 2, 9; (3629), 3, 1, 0; (3896), 6, 2, 1; (3975), 6, 2, 5; (4270), 3, 1, 0; (4470), 3, 1, 0; (5037), 3, 1, 0; (5083), 3, 1, 0; (6097), 3, 1, 0; (6928), 3, 1, 0; (7039), 3, 1, 0; (7751), 6, 2, 1; (8284), 3, 1, 0; (8700), 3, 1, 0; (8803), 3, 1, 0; (9198), 3, 1, 0; (9892), 3, 1, 0; (9916), 3, 1, 0; (10508), 3, 1, 0; (10690), 3, 1, 0; (10923), 3, 1, 0; (11089), 3, 1, 0; (11273), 3, 1, 0; (11625), 3, 1, 0; (12558), 2, 1, 0; (13085), 3, 1, 0; (13638), 3, 1, 0; (13807), 3, 1, 0; (13932), 3, 1, 0; (14621), 3, 1, 0; (16238), 3, 1, 0; (16609), 3, 1, 0; (16788), 3, 1, 0; (16976), 3, 1, 0; (17418), 3, 1, 0; (17439), 3, 1, 0; (17602), 3, 1, 0; (17968), 3, 1, 0; (19222), 3, 1, 0; (20866), 3, 1, 0; (21928), 3, 1, 0; (22993), 3, 1, 0; (23098), 3, 1, 0; (23241), 3, 1, 0; (23354), 3, 1, 0; (23807), 6, 2, 2; (24208), 3, 1, 0; (24297), 3, 1, 0; (24453), 6, 2, 4; (24620), 9, 3, 2; (25836), 3, 1, 0; (25877), 6, 2, 4; (26200), 3, 1, 0; (26494), 3, 1, 0; (26600), 3, 1, 0; (27052), 3, 1, 0; (27066), 3, 1, 0; (27151), 6, 2, 1; (27634), 3, 1, 0; (27982), 3, 1, 0; (28002), 3, 1, 0; (28206), 3, 1, 0; (28575), 3, 1, 0; (29178), 3, 1, 0; (29230), 3, 1, 0; (29278), 3, 1, 0; (29862), 3, 1, 0; (29891), 3, 1, 0; (30017), 3, 1, 0; (30192), 3, 1, 0; (30664), 3, 1, 0; (31417), 3, 1, 0; (31489), 3, 1, 0; (31602), 3, 1, 0; (31748), 3, 1, 0; (32655), 3, 1, 0; (32686), 3, 1, 0; (33918), 3, 1, 0; (33940), 3, 1, 0; (34729), 3, 1, 0; (35952), 3, 1, 0; (36310), 3, 1, 0; (37351), 3, 1, 0; (37928), 3, 1, 0; (38256), 3, 1, 0; (38388), 3, 1, 0; (38721), 3, 1, 0; (38911), 3, 1, 0; (39961), 3, 1, 0; (40633), 9, 3, 4; (40707), 3, 1, 0; (40931), 3, 1, 0; (41270), 3, 1, 0; (41364), 3, 1, 0; (41708), 3, 1, 0; (44302), 9, 3, 4; (44370), 3, 1, 0; (44441), 3, 1, 0; (44874), 3, 1, 0; (45501), 3, 1, 0; (45773), 3, 1, 0; (46083), 3, 1, 0; (46155), 3, 1, 0; (46311), 3, 1, 0; (46358), 3, 1, 0; (46940), 3, 1, 0; (47259), 3, 1, 0; (47502), 3, 1, 0; (47524), 3, 1, 0; (47886), 3, 1, 0; (48157), 3, 1, 0; (49891), 3, 1, 0; (50102), 3, 1, 0; (50896), 3, 1, 0; (50981), 3, 1, 0; (50983), 3, 1, 0; (51247), 3, 1, 0; (52111), 3, 1, 0; (52488), 3, 1, 0; (52693), 3, 1, 0; (53552), 3, 1, 0; (54702), 3, 1, 0; (55121), 3, 1, 0; (55765), 3, 1, 0; (56346), 3, 1, 0; (56382), 3, 1, 0; (56960), 3, 1, 0; (57383), 3, 1, 0; (57456), 3, 1, 0; (57471), 6, 2, 4; (57993), 3, 1, 0; (58454), 3, 1, 0; (58712), 3, 1, 0; (59414), 3, 1, 0; (60629), 3, 1, 0; (60944), 3, 1, 0; (61180), 3, 1, 0; (61384), 3, 1, 0; (61423), 3, 1, 0; (63119), 3, 1, 0; (63449), 3, 1, 0; (63911), 3, 1, 0; (65343), 3, 1, 0; (65687), 3, 1, 0; (65987), 3, 1, 0; (66568), 3, 1, 0; (66612), 3, 1, 0; (68042), 3, 1, 0; (68335), 3, 1, 0; (68694), 3, 1, 0; (68966), 3, 1, 0; (69694), 3, 1, 0; (70743), 2, 1, 0; (70845), 3, 1, 0; (71210), 3, 1, 0; (72163), 3, 1, 0; (73156), 3, 1, 0; (73378), 6, 2, 1; (74149), 3, 1, 0; (74212), 3, 1, 0; (74490), 3, 1, 0; (75832), 3, 1, 0; (76016), 3, 1, 0; (78207), 3, 1, 0; (79358), 9, 3, 4; (80334), 3, 1, 0; (80640), 3, 1, 0; (80820), 3, 1, 0; (81838), 6, 2, 1; (82191), 3, 1, 0; (82312), 3, 1, 0; (82318), 6, 2, 1; (82932), 3, 1, 0; (83450), 6, 2, 1; (83611), 3, 1, 0; (83894), 3, 1, 0; (84709), 3, 1, 0; (85509), 3, 1, 0; (85746), 3, 1, 0; (86869), 3, 1, 0; (87222), 3, 1, 0; (90389), 3, 1, 0; (90420), 3, 1, 0; (90779), 9, 2, 2; (92745), 3, 1, 0; (92795), 3, 1, 0; (92818), 3, 1, 0; (92883), 3, 1, 0; (93871), 3, 1, 0; (95802), 3, 1, 0; (96307), 3, 1, 0; (98408), 3, 1, 0; (98836), 3, 1, 0; (99546), 3, 1, 0; (100314), 4, 1, 0; (101876), 3, 1, 0; (104392), 3, 1, 0; (104500), 3, 1, 0; (107395), 6, 2, 2; (109126), 3, 1, 0; (109885), 3, 1, 0; (110329), 3, 1, 0; (112232), 3, 1, 0; (112416), 3, 1, 0; (112741), 3, 1, 0; (112808), 3, 1, 0; (112809), 3, 1, 0; (114400), 3, 1, 0; (119679), 3, 1, 0; (120895), 3, 1, 0; (122239), 3, 1, 0; (122357), 3, 1, 0; (123233), 3, 1, 0; (123715), 3, 1, 0; (124333), 3, 1, 0; (124369), 3, 1, 0; (124711), 3, 1, 0; (125098), 3, 1, 0; (126211), 3, 1, 0; (127152), 3, 1, 0; (127867), 3, 1, 0; (127881), 3, 1, 0; (130101), 3, 1, 0; (130436), 3, 1, 0; (131067), 3, 1, 0; (131313), 3, 1, 0; (131879), 3, 1, 0; (133388), 3, 1, 0; (135362), 3, 1, 0; (150698), 2, 1, 0; (155457), 3, 1, 0; (155921), 3, 1, 0; (157096), 3, 1, 0; (157226), 2, 1, 0; (159401), 3, 1, 0; (159749), 3, 1, 0; (160621), 3, 1, 0; (160658), 3, 1, 0; (160836), 3, 1, 0; (163475), 3, 1, 0; (163800), 6, 2, 1; (163946), 3, 1, 0; (167474), 3, 1, 0; (168805), 3, 1, 0; (169104), 3, 1, 0; (169153), 3, 1, 0; (170808), 3, 1, 0; (171891), 3, 1, 0; (181697), 3, 1, 0; (192521), 3, 1, 0; (192894), 3, 1, 0; (197662), 3, 1, 0; (198246), 3, 1, 0; (198845), 3, 1, 0; (199058), 3, 1, 0; (200132), 3, 1, 0; (201012), 3, 1, 0; (201259), 3, 1, 0; (201670), 3, 1, 0; (202040), 3, 1, 0; (202078), 3, 1, 0; (202272), 3, 1, 0; (203161), 3, 1, 0; (206365), 3, 1, 0; (206623), 3, 1, 0; (208747), 3, 1, 0; (229494), 3, 1, 0; (229582), 6, 2, 1; (233202), 3, 1, 0; (233340), 3, 1, 0; (238766), 3, 1, 0; (239220), 3, 1, 0; (239873), 3, 1, 0; (240127), 3, 1, 0; (245234), 3, 1, 0; (249372), 3, 1, 0; (249517), 3, 1, 0; (275643), 3, 1, 0; (276666), 3, 1, 0; (280395), 3, 1, 0; (280397), 3, 1, 0; (281728), 3, 1, 0; [1099, 322, 8*, 2010/09/13-2011/07/12]

- A78 Stia**
G. Bartolozzi, Via 17 Partigiani No. 56, I-52017 Stia, Arezzo, Italy
[giba44@interfree.it]
0.30-m $f/10$ Ritchey-Chrétien + CCD + $f/6.3$ focal reducer
UCAC-3
2011 EZ₇₈, 5, 1, 0; 2011 KP₁₇, 3, 1, 0; (7482), 4, 1, 0; (20086), 9, 2, 1; [21, 4, 0*, 2011/06/26–2011/06/28]
- 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-3
2011 MC, 5, 1, 0; 2011 MD, 5, 1, 0; [10, 2, 0*, 2011/06/22–2011/06/25]
- A92 Urseanu Observatory, Bucharest**
A. Sonka, Astronomical Observatory Amiral Vasile Urseanu, Bd. Lascar Catargiu nr. 21, sect. 1, Bucharest, Romania [bruno@astroclubul.org]
0.30-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer
USNO-B1.0
(1036), 5, 1, 0; [5, 1, 0*, 2011/06/07]
- B01 Taunus Observatory, Frankfurt**
E. Schwab, Westendstrasse 8, D-63329 Egelsbach, Germany [e.schwab@gsi.de]
Observers R. Kling, U. Zimmer
0.6-m $f/3.3$ Cassegrain + CCD
UCAC-3
2003 UB₂₅₁, 4, 1, 0; 2011 MM₄, 8, 1, 0; [12, 2, 0*, 2011/06/27–2011/06/28]
- B03 Alter Satzberg, Vienna**
M. Pietschnig, KLG Alter Satzberg 88, A-1140 Wien, Austria
[pietschnig@utanet.at]
0.35-m $f/5.8$ Schmidt-Cassegrain + CCD
NOMAD
2011 KP₁₇, 3, 1, 0; 2011 LT₁₇, 10, 2, 2; 2011 MQ₃, 3, 1, 0; [16, 3, 0*, 2011/06/12–2011/07/02]
- B20 Observatorio Carmelita, Tiana**
J. M. Aymami, Av. Lluís Companys, 45-47, E-08391 Tiana, Spain
[pepineus@telefonica.net]
0.25-m $f/4.3$ Schmidt-Cassegrain + CCD
CMC
2011 MD, 3, 1, 0; (58304), 3, 1, 0; [6, 2, 0*, 2011/06/26–2011/06/28]
- B38 Santa Mama**
S. Trivisan, Castagnoli 127/I, Subbiano, Italy [stelucy3@interfree.it]
0.30-m $f/10$ reflector + CCD + $f/6.3$ focal reducer
NOMAD, UCAC-3
2008 HE, 11, 3, 2; 2011 JP₂₉, 7, 2, 1; 2011 KP₁₇, 6, 2, 6; 2011 LA₁₉, 16, 4, 13; (2102), 13, 3, 9; (20086), 13, 3, 9; [66, 6, 0*, 2011/06/20–2011/07/06]
- B49 Paus Observatory, Sabadell**
J. Camarasa, CC/ de les Paus no. 96 baixos, E-08202 Sabadell (BCN), Spain
[jordi.camarasa@ya.com]
0.30-m $f/4$ Newtonian reflector + CCD
USNO-A2.0
2011 MD, 4, 1, 0; [4, 1, 0*, 2011/06/26]
- 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
UCAC-3
2009 VT₄₇, 2, 1, 0; 2011 KN₉, 3, 1, 0; 2011 MD, 9, 1, 0; [14, 3, 0*, 2011/03/10–2011/06/27]
- B86 Sternwarte Hagen**
M. Klein, Hierseier Weg 22, D-58119 Hagen, Germany
[minorplanets@sternwarte-hagen.de]
0.50-m $f/3.0$ Deltagraph + CCD
UCAC-3
2011 MD, 8, 1, 0; [8, 1, 0*, 2011/06/26]
- 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
USNO-B1.0
(287), 20, 3, 14; (1036), 69, 6, 10; [89, 2, 0*, 2011/06/18–2011/07/04]
- B96 Brixii Observatory, Kruikebe**
E. Bryssinck, Brixii Observatory, B-9150 Kruikebe, Belgium
[erik.bryssinck@telenet.be]
0.4-m $f/3.8$ astrograph + CCD
UCAC-3, CMC, PPMXL
(74295), 4, 1, 0; (109923), 5, 1, 0; [9, 2, 0*, 2011/06/27–2011/07/03]
- C01 Lohrmann-Observatorium, Triebenber**
R. Langhans, TU Dresden, Lohrmann-Observatorium, D-01062 Dresden, Germany
[ralf.langhans@tu-dresden.de]
Observer R. Geyer
0.6-m $f/4$ Newtonian reflector + CCD
UCAC-3
(1727), 295, 2, 3; (1866), 4, 1, 0; (1951), 9, 2, 2; (2938), 4, 1, 0; (5066), 6, 2, 2; (7482), 4, 1, 0; (8176), 2, 1, 0; (19021), 4, 1, 0; (23187), 4, 1, 0; (37336), 6, 2, 2; (68748), 4, 2, 1; (73147), 5, 2, 1; (84709), 2, 1, 0; (87025), 6, 2, 1; (92755), 3, 1, 0; (100747), 3, 1, 0; (131299), 7, 2, 2; (152627), 3, 1, 0; (162474), 4, 1, 0; (163335), 4, 2, 1; (182307), 4, 2, 1; (184990), 6, 1, 0; (188174), 5, 2, 14; (270488), 6, 2, 1; (281375), 8, 2, 1; [408, 25, 0*, 2011/05/06–2011/06/29]
- C10 Maisoncelles**
J. F. Soulier, Maisoncelles, Seine et Marne, France
[jean-francois.soulier2@wanadoo.fr]
0.26-m $f/3.6$ Newtonian reflector + CCD
USNO-B1.0
(6008), 2, 1, 0; (6227), 3, 1, 0; (10306), 3, 1, 0; (45156), 2, 1, 0; (57089), 2, 1, 0; (60558), 4, 2, 7; (117474), 2, 1, 0; (118401), 8, 4, 11; (158362), 1, 1, 0; [27, 9, 0*, 2010/08/30–2011/07/05]
- C13 Como**
C. Gualdoni, Via Pannilani 7, I-22100 Como, Italy [arguald@tele2.it]
0.25-m $f/6$ Schmidt-Cassegrain + CCD
UCAC-3
2008 LV₁₆, 3, 1, 0; 2008 VH, 7, 3, 7; [10, 2, 0*, 2011/06/20–2011/06/27]
- C27 Pallerols**
A. Jorba, Psje Garcini 3, E-08007 Barcelona, Spain [angel.jorba@gmail.com]

0.25-m $f/4.8$ reflector + CCD

UCAC-3

2011 EZ₇₈, 9, 2, 1; (38628), 2, 1, 0; (41199), 2, 1, 0; (136108), 2, 1, 0; [15, 4, 0*, 2011/06/24–2011/07/01]

C29 Observatori Astronómic de Les Planes de Son

E. Herrero, Trav de les Cortes 373 8-1, E-08029 Barcelona, Spain

[eherrero@ieec.cat]

0.41-m Schmidt-Cassegrain + CCD

USNO-B1.0

2011 NR*, 6, 2, 1; [6, 1, 1*, 2011/07/04–2011/07/05]

C43 Hoyerswerda

P. Lindner, Ringstraße 21, D-02977 Hoyerswerda, Germany

[peter.lindner@arcor.de]

0.11-m $f/4.4$ reflector + CCD

UCAC-3

(26142), 1, 1, 0; [1, 1, 0*, 2011/06/12]

C44 A. Volta Observatory, Lanzo d'Intelvi

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

0.35-m $f/6.2$ Schmidt-Cassegrain + CCD

UCAC-3

2011 MS₁, 3, 1, 0; [3, 1, 0*, 2011/06/25]

C47 Nonndorf

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

0.25-m $f/4.8$ reflector + CCD

UCAC-3

2011 EZ₇₈, 3, 1, 0; 2011 MD, 6, 1, 0; (430), 3, 1, 0; [12, 3, 0*, 2011/06/26–2011/07/06]

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, E. L. Wright, J. M. Bauer, T. Grav, J. W. Dailey, J. R. Masiero, R. M. Cutri, R. S. McMillan, R. G. Walker, G. Pearman

2MASS

2011 KG₉, 14, 2, 1; 2011 KS₁₇, 2, 1, 0; (177640), 18, 2, 1; [34, 3, 0*, 2010/04/20–2010/06/16]

C67 Gnevsdorf

M. Juergens, Steinstr. 61, 19395 Gnevsdorf, Germany [juergens@sky-observatory.com]

0.20-m Schmidt-Cassegrain + CCD

UCAC-3

(483), 10, 4, 6; (537), 7, 3, 5; (751), 5, 2, 4; (856), 5, 2, 4; [27, 4, 0*, 2011/06/12–2011/06/19]

C68 Ellinogermaniki Agogi Observatory, Pallini

V. Tsamis, Dimitriou Panagea str, Pallini Attikis, GR-15351 Athens, Greece

[vtsamis@aegean.gr]

0.40-m $f/6.3$ Schmidt-Cassegrain + CCD

GSC-1.1

(638), 5, 2, 1; [5, 1, 0*, 2011/06/09–2011/06/11]

C69 Bayerwald Sternwarte, Neuhütte

G. Stumpp, Neuhütte 3, 94518 Spiegelau, Germany [info@bayerwald-sternwarte.de]

Observer G. Stumpp

Measurer J. Bastl

0.3-m $f/4.0$ reflector + CCD

PPMXL

(4613), 4, 2, 1; (9473), 4, 2, 1; [8, 2, 0*, 2011/05/29–2011/05/30]

C70 Uiterstegracht Station, Leiden

J. Caron, Uiterstegracht 48, 2312 TE Leiden, Netherlands [Jerome.Caron@esa.int]

0.2-m $f/6.4$ Cassegrain reflector + CCD

USNO-B1.0

(1036), 14, 3, 11; [14, 1, 0*, 2011/06/21–2011/07/03]

C71 Sant Marti Sesgueioles

F. Grau Horta, C/ de Dalt 18, Sant Marti Sesgueioles, E-08282 Spain

[ferran.grau@gmail.com]

0.30-m $f/10$ Schmidt-Cassegrain + CCD + $f/8.5$ focal reducer

CMC-14

(484), 9, 3, 13; (505), 9, 3, 13; (535), 6, 2, 1; (737), 6, 2, 1; (751), 9, 3, 13; [39, 5, 0*, 2011/06/25–2011/07/08]

D29 Purple Mountain Observatory, XuYi Station

H. B. Zhao, 2# West Beijing Road, Nanjing 210008, China [meteorzh@pmo.ac.cn]

Observers H. B. Zhao, J. S. Yao, G. T. Zhaori, H. Lu, M. Wang, R. Q. Hong,

L. F. Hu

Measurers H. B. Zhao, H. Lu, G. T. Zhaori, Y. Xia

1.04-m $f/1.8$ Schmidt + CCD

UCAC-2

2001 YB₈₈, 4, 1, 0; 2002 PJ₁₉₇, 4, 1, 0; 2011 JJ₂₇, 4, 1, 0; 2011 KN₂₁, 4, 1, 0; 2011 KX₂₈, 4, 1, 0; 2011 KU₃₁, 4, 1, 0; 2011 MD, 54, 2, 1; (17), 4, 1, 0; (18), 4, 1, 0; (43), 8, 1, 0; (44), 4, 1, 0; (110), 4, 1, 0; (152), 4, 1, 0; (194), 4, 1, 0; (241), 8, 1, 0; (271), 8, 2, 13; (322), 4, 1, 0; (676), 4, 1, 0; (734), 4, 1, 0; (789), 4, 1, 0; (929), 4, 1, 0; (946), 4, 1, 0; (996), 4, 1, 0; (1194), 4, 1, 0; (1248), 4, 1, 0; (1291), 4, 1, 0; (1317), 4, 1, 0; (1604), 4, 1, 0; (1648), 4, 1, 0; (1812), 4, 1, 0; (2020), 8, 1, 0; (2086), 4, 1, 0; (2767), 4, 1, 0; (3262), 8, 1, 0; (3487), 4, 1, 0; (4090), 4, 1, 0; (4121), 4, 1, 0; (4175), 4, 1, 0; (4580), 4, 1, 0; (4613), 4, 1, 0; (5238), 7, 1, 0; (5279), 4, 1, 0; (5386), 4, 1, 0; (5403), 4, 1, 0; (5535), 4, 1, 0; (5584), 4, 1, 0; (5947), 4, 1, 0; (6952), 4, 1, 0; (7542), 4, 1, 0; (7582), 4, 1, 0; (7741), 4, 1, 0; (9093), 4, 1, 0; (9545), 4, 1, 0; (9806), 4, 1, 0; (9957), 4, 1, 0; (10288), 4, 1, 0; (11129), 4, 1, 0; (11734), 4, 1, 0; (11816), 4, 1, 0; (11960), 4, 1, 0; (12107), 4, 1, 0; (12121), 4, 1, 0; (12918), 4, 1, 0; (13967), 4, 1, 0; (14323), 4, 1, 0; (15282), 4, 1, 0; (15318), 4, 1, 0; (15368), 4, 1, 0; (15743), 3, 1, 0; (15759), 3, 1, 0; (15861), 4, 1, 0; (16009), 4, 1, 0; (18024), 4, 1, 0; (18031), 4, 1, 0; (18548), 4, 1, 0; (19694), 4, 1, 0; (20563), 4, 1, 0; (21589), 4, 1, 0; (21707), 2, 1, 0; (22615), 4, 1, 0; (23712), 4, 1, 0; (23798), 4, 1, 0; (24033), 4, 1, 0; (24161), 4, 1, 0; (25121), 4, 1, 0; (25314), 4, 1, 0; (25978), 4, 1, 0; (26214), 8, 1, 0; (27725), 4, 1, 0; (27922), 4, 1, 0; (28140), 4, 1, 0; (28830), 3, 1, 0; (31732), 4, 1, 0; (32126), 8, 1, 0; (32178), 3, 1, 0; (35901), 4, 1, 0; (37161), 4, 1, 0; (37885), 8, 1, 0; (39516), 4, 1, 0; (39525), 4, 1, 0; (46166), 3, 1, 0; (48306), 4, 1, 0; (49593), 4, 1, 0; (51155), 4, 1, 0; (54415), 4, 1, 0; (56486), 4, 1, 0; (57450), 4, 1, 0; (58211), 4, 1, 0; (60976), 4, 1, 0; (62332), 4, 1, 0; (66804), 4, 1, 0; (66864), 4, 1, 0; (66898), 4, 1, 0; (67195), 4, 1, 0; (74314), 3, 1, 0; (74694), 4, 1, 0; (76670), 3, 1, 0; (79992), 4, 1, 0; (85474), 4, 1, 0; (88431), 4, 1, 0; (91111), 4, 1, 0; (132640), 3, 1, 0; (136604), 6, 1, 0; (138515), 4, 1, 0; (138599), 3, 1, 0; (154795), 4, 1, 0; (183230), 4, 1, 0; (208338), 4, 1, 0; (225637), 4, 1, 0; [596, 129, 0*, 2007/04/16–2011/07/08]

D35 Lulin Observatory

H. C. Lin, 300 JungDa Rd, Chung-li City, Tao-yuan Country, Taiwan

[hclin@astro.ncu.edu.tw]

Observers S. Abe, H. Y. Hsiao, C. S. Lin

1.0-m $f/8$ Cassegrain + CCD

USNO-A2.0

2002 QU₁₄₅, 3, 1, 0; 2002 QX₁₄₆, 3, 1, 0; 2003 BK₄₇, 13, 1, 0; 2003 UT₉₄, 3, 1, 0; 2011 FP₃₇, 3, 1, 0; 2011 HA₃₃, 2, 1, 0; 2011 KP₁₇, 21, 1, 0; 2011 KT₃₃, 3, 1, 0; 2011 MT, 40, 1, 0; 2011 MD₅, 7, 1, 0; 2011 ME₅, 15, 1, 0; 2011 ND, 18, 1, 0; 2011 NM, 10, 1, 0; 2011 NP, 14, 1, 0; 2011 NQ, 4, 1, 0; [159, 15, 0*, 2006/07/20–2011/07/04]

(146124), 4, 1, 0; (146345), 4, 1, 0; (146441), 2, 1, 0; (146627), 4, 1, 0; (147324), 3, 1, 0; (147988), 4, 1, 0; (148754), 4, 1, 0; (148806), 2, 1, 0; (149202), 3, 1, 0; (149589), 4, 1, 0; (150378), 4, 1, 0; (150406), 4, 1, 0; (150563), 4, 1, 0; (150663), 4, 1, 0; (150718), 4, 1, 0; (150899), 4, 1, 0; (150937), 4, 1, 0; (151079), 3, 1, 0; (151774), 3, 1, 0; (151916), 12, 2, 13; (151930), 4, 1, 0; (151945), 4, 1, 0; (151948), 4, 1, 0; (152653), 4, 1, 0; (152933), 4, 1, 0; (152987), 4, 1, 0; (153036), 4, 1, 0; (153322), 4, 1, 0; (153338), 4, 1, 0; (153393), 4, 1, 0; (153421), 4, 1, 0; (153447), 3, 1, 0; (153527), 4, 1, 0; (153589), 2, 1, 0; (153741), 5, 1, 0; (154354), 3, 1, 0; (154368), 4, 1, 0; (154469), 8, 2, 9; (154474), 12, 3, 13; (154478), 3, 1, 0; (154666), 3, 1, 0; (154686), 4, 1, 0; (154718), 2, 1, 0; (154786), 4, 1, 0; (154856), 13, 2, 13; (155606), 4, 1, 0; (155628), 4, 1, 0; (155648), 2, 1, 0; (155673), 4, 1, 0; (155740), 7, 2, 5; (155917), 2, 1, 0; (155928), 4, 1, 0; (155935), 4, 1, 0; (155982), 9, 2, 2; (155990), 3, 1, 0; (156051), 4, 1, 0; (156065), 4, 1, 0; (156229), 4, 1, 0; (156279), 4, 1, 0; (156335), 4, 1, 0; (156771), 4, 1, 0; (156865), 4, 1, 0; (157122), 10, 2, 2; (157123), 4, 1, 0; (157230), 4, 1, 0; (157241), 4, 1, 0; (157271), 8, 1, 0; (157629), 4, 1, 0; (157964), 4, 1, 0; (157976), 4, 1, 0; (158012), 3, 1, 0; (158100), 4, 1, 0; (158101), 2, 1, 0; (158186), 4, 1, 0; (158188), 4, 1, 0; (158229), 4, 1, 0; (158242), 4, 1, 0; (158282), 4, 1, 0; (158331), 4, 1, 0; (158365), 3, 1, 0; (158383), 4, 1, 0; (158653), 4, 1, 0; (158845), 4, 1, 0; (158850), 4, 1, 0; (158908), 4, 1, 0; (158927), 4, 1, 0; (158989), 4, 1, 0; (159271), 4, 1, 0; (159368), 4, 1, 0; (159666), 4, 1, 0; (159763), 2, 1, 0; (159814), 4, 1, 0; (159859), 4, 1, 0; (159881), 3, 1, 0; (160039), 2, 1, 0; (160041), 4, 1, 0; (160045), 4, 1, 0; (160060), 4, 1, 0; (160090), 23, 3, 13; (160142), 2, 1, 0; (160237), 3, 1, 0; (160332), 4, 1, 0; (160337), 4, 1, 0; (160345), 4, 1, 0; (160419), 7, 1, 0; (160469), 3, 1, 0; (160561), 2, 1, 0; (160587), 4, 1, 0; (160591), 3, 1, 0; (160612), 4, 1, 0; (160643), 4, 1, 0; (160831), 4, 1, 0; (160844), 2, 1, 0; (160853), 4, 1, 0; (160886), 4, 1, 0; (161034), 3, 1, 0; (161054), 3, 1, 0; (161064), 4, 1, 0; (161067), 4, 1, 0; (161259), 4, 1, 0; (161310), 2, 1, 0; (161323), 4, 1, 0; (161355), 4, 1, 0; (161356), 4, 1, 0; (161380), 4, 1, 0; (161413), 4, 1, 0; (161430), 3, 1, 0; (161441), 3, 1, 0; (161453), 4, 1, 0; (161599), 3, 1, 0; (161650), 4, 1, 0; (161657), 4, 1, 0; (161691), 4, 1, 0; (161693), 3, 1, 0; (161766), 4, 1, 0; (161984), 5, 1, 0; (162090), 4, 1, 0; (162092), 4, 1, 0; (162093), 4, 1, 0; (162111), 3, 1, 0; (162118), 3, 1, 0; (162131), 4, 1, 0; (162209), 3, 1, 0; (162211), 2, 1, 0; (162222), 4, 1, 0; (162223), 3, 1, 0; (162234), 4, 1, 0; (162236), 3, 1, 0; (162294), 4, 1, 0; (162318), 4, 1, 0; (162329), 4, 1, 0; (162340), 3, 1, 0; (162350), 2, 1, 0; (163018), 3, 1, 0; (163127), 3, 1, 0; (163201), 4, 1, 0; (163258), 4, 1, 0; (163276), 3, 1, 0; (163279), 2, 1, 0; 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(168301), 4, 1, 0; (168438), 4, 1, 0; (168558), 4, 1, 0; (169051), 2, 1, 0; (169074), 3, 1, 0; (169132), 2, 1, 0; (169224), 2, 1, 0; (169245), 4, 1, 0; (169265), 3, 1, 0; (169309), 4, 1, 0; (169619), 4, 1, 0; (169758), 4, 1, 0; (169871), 4, 1, 0; (169929), 4, 1, 0; (170037), 4, 1, 0; (170066), 8, 2, 1; (170436), 4, 1, 0; (170503), 3, 1, 0; (170591), 11, 3, 6; (170994), 4, 1, 0; (171850), 3, 1, 0; (172027), 4, 1, 0; (172236), 4, 1, 0; (172293), 4, 1, 0; (172874), 4, 1, 0; (173056), 4, 1, 0; (173275), 2, 1, 0; (173445), 4, 1, 0; (173453), 4, 1, 0; (173740), 4, 1, 0; (174011), 4, 1, 0; (174292), 4, 1, 0; (175091), 4, 1, 0; (176497), 3, 1, 0; (176989), 4, 1, 0; (177640), 4, 1, 0; (178627), 2, 1, 0; (178665), 2, 1, 0; (179654), 4, 1, 0; (181311), 3, 1, 0; (182594), 4, 1, 0; (182647), 4, 1, 0; (182746), 2, 1, 0; (184980), 3, 1, 0; (186324), 4, 1, 0; (187033), 2, 1, 0; (187855), 3, 1, 0; (188077), 2, 1, 0; (188575), 2, 1, 0; (189607), 3, 1, 0; (189637), 2, 1, 0; (189981), 8, 2, 1; (190148), 4, 1, 0; 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E23 Arcadia

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

0.35-m Schmidt-Cassegrain + CCD

USNO-B1.0

2008 TR₁₀, 4, 1, 0; 2011 MP, 4, 1, 0; [8, 2, 0*, 2011/06/24-2011/06/27]

E89 Geysersland Observatory, Pukehangi

R. Carstens, 120 Homedale Street, Pukehangi, 3015 Rotorua, New Zealand

[caro@wave.co.nz]

0.25-m Schmidt-Cassegrain + CCD

UCAC-3

(702), 8, 2, 1; [8, 1, 0*, 2011/05/29-2011/05/30]

E94 Possum Observatory, Gisborne

J. Drummond, 23 Bilham Road, Patutahi, Gisborne, New Zealand

[john_drummond@extra.co.nz]

0.35-m *f*/10 Schmidt-Cassegrain + CCD

UCAC-2

(14412), 3, 1, 0; [3, 1, 0*, 2011/06/27]

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 N. Primak, A. Schultz, S. Watters, J. Thiel, T. Goggia

Measurer P. 1 Science Consortium

1.8-m Ritchey-Chrétien + CCD

2MASS

1993 OH₃, 3, 1, 0; 1994 SC₁₃, 4, 1, 0; 1994 XK₂, 4, 2, 41; 1995 UN₆₅, 2, 1, 0; 1995 VF₁₈, 4, 1, 0; 1996 TQ₃₃, 2, 1, 0; 1996 VU₁₀, 2, 1, 0; 1996 VE₁₉, 2, 1, 0; 1997 HK₂, 2, 1, 0; 1997 HM₁₂, 2, 1, 0; 1997 WC₁₄, 4, 1, 0; 1998 HY₂, 2, 1, 0; 1998 ML₇, 4, 1, 0; 1998 QO₇₉, 2, 1, 0; 1998 QJ₈₉, 2, 1, 0; 1998 UJ₉₄, 2, 1, 0; 1998 RF₂₂, 4, 1, 0; 1998 SP₂, 2, 1, 0; 1998 SF₁₀₇, 2, 1, 0; 1998 TR₁₀, 3, 1, 0; 1998 UK₂₈, 4, 1, 0; 1998 VL₅₅, 3, 1, 0; 1999 BE₈, 3, 1, 0; 1999 BN₂₉, 2, 1, 0; 1999 RV₁₈₉, 3, 1, 0; 1999 SO₂, 2, 1, 0; 1999 TZ₁₀₈, 2, 1, 0; 1999 TY₁₂₀, 3, 1, 0; 1999 TS₁₂₉, 2, 1, 0; 1999 TD₁₆₈, 4, 2, 2; 1999 TV₂₁₅, 2, 1, 0; 1999 TX₂₃₃, 4, 2, 7; 1999 TO₂₄₄, 4, 2, 6; 1999 TL₂₇₀, 2, 1, 0;

1999 UM₁₂, 2, 1, 0; 1999 VV₈, 2, 1, 0; 1999 VV₃₄, 2, 1, 0; 1999 VP₄₁, 2, 1, 0; 1999 VJ₄₄, 6, 2, 5; 1999 VG₅₅, 2, 1, 0; 1999 VW₆₄, 2, 1, 0; 1999 VH₁₇₅, 2, 1, 0; 1999 WQ₁₇, 5, 1, 0; 1999 XW₁₆, 2, 1, 0; 1999 XH₁₇, 2, 1, 0; 1999 XN₂₄, 2, 1, 0; 1999 XB₈₀, 6, 2, 20; 1999 XU₁₄₅, 2, 1, 0; 1999 XE₁₅₅, 4, 1, 0; 1999 XY₂₅₉, 2, 1, 0; 1999 YP₁₃, 2, 1, 0; 2000 AV₉₄, 2, 1, 0; 2000 AV₁₄₆, 4, 1, 0; 2000 AV₂₄₈, 2, 1, 0; 2000 CC₇₃, 4, 2, 7; 2000 DW₁₀₄, 2, 1, 0; 2000 EB₉₈, 4, 1, 0; 2000 ER₁₄₂, 4, 1, 0; 2000 EP₁₇₀, 2, 1, 0; 2000 FA₁₄, 2, 1, 0; 2000 FF₁₅, 3, 1, 0; 2000 GL₁₁₉, 3, 1, 0; 2000 GW₁₇₅, 3, 1, 0; 2000 HX₂₂, 2, 1, 0; 2000 HS₃₃, 6, 2, 39; 2000 HM₅₉, 4, 1, 0; 2000 HH₇₄, 2, 1, 0; 2000 OS₄₉, 2, 1, 0; 2000 PE₆, 4, 2, 1; 2000 PU₁₈, 2, 1, 0; 2000 QV₁₀, 4, 1, 0; 2000 QU₇₀, 4, 1, 0; 2000 QU₈₄, 4, 2, 11; 2000 QG₁₀₈, 2, 1, 0; 2000 QK₁₃₄, 4, 1, 0; 2000 QE₁₄₃, 8, 2, 4; 2000 QW₁₄₇, 4, 1, 0; 2000 QL₁₅₈, 2, 1, 0; 2000 QS₁₈₄, 2, 1, 0; 2000 QG₁₉₇, 2, 1, 0; 2000 QV₂₀₂, 2, 1, 0; 2000 QF₂₀₅, 2, 1, 0; 2000 QE₂₂₇, 2, 1, 0; 2000 QM₂₂₉, 4, 2, 14; 2000 RD₂₅, 2, 1, 0; 2000 RR₇₅, 5, 2, 4; 2000 RR₈₂, 4, 1, 0; 2000 RH₈₈, 2, 1, 0; 2000 SR₁₅, 2, 1, 0; 2000 SX₁₆, 2, 1, 0; 2000 SC₁₈, 4, 1, 0; 2000 SG₂₄, 4, 1, 0; 2000 SH₂₆, 3, 1, 0; 2000 SO₄₈, 4, 1, 0; 2000 ST₆₃, 2, 1, 0; 2000 SN₇₈, 2, 1, 0; 2000 SR₉₅, 4, 1, 0; 2000 SE₁₁₂, 2, 1, 0; 2000 SJ₁₇₄, 3, 1, 0; 2000 SN₂₆₁, 2, 1, 0; 2000 SH₂₇₆, 2, 1, 0; 2000 SL₂₈₆, 2, 1, 0; 2000 SO₂₉₀, 3, 1, 0; 2000 SS₃₁₂, 2, 1, 0; 2000 TJ₃₃₅, 2, 1, 0; 2000 SH₃₄₇, 4, 2, 51; 2000 TT₂₇, 4, 1, 0; 2000 TG₃₁, 2, 1, 0; 2000 TB₃₃, 2, 1, 0; 2000 TZ₄₀, 2, 1, 0; 2000 TN₆₀, 2, 1, 0; 2000 TG₆₇, 2, 1, 0; 2000 UO₃, 2, 1, 0; 2000 UA₁₄, 4, 1, 0; 2000 UT₂₄, 2, 1, 0; 2000 UA₆₄, 2, 1, 0; 2000 UH₆₉, 4, 1, 0; 2000 UY₁₀₅, 4, 1, 0; 2000 VW₆, 2, 1, 0; 2000 VB₅₄, 2, 1, 0; 2000 WY₅₀, 4, 1, 0; 2000 WY₁₂₀, 2, 1, 0; 2000 WW₁₂₃, 2, 1, 0; 2000 WC₁₄₇, 4, 1, 0; 2000 WD₁₆₈, 2, 1, 0; 2000 WL₁₇₇, 4, 2, 11; 2000 WC₁₈₀, 4, 1, 0; 2000 XS₅₃, 2, 1, 0; 2000 YE₄, 2, 1, 0; 2000 YK₁₁, 2, 1, 0; 2000 YB₅₉, 2, 1, 0; 2001 AF₈, 2, 1, 0; 2001 AN₁₀, 2, 1, 0; 2001 AT₃₇, 2, 1, 0; 2001 BN₅₇, 4, 2, 4; 2001 BC₇₃, 2, 1, 0; 2001 DD₈, 2, 1, 0; 2001 FM₃₀, 2, 1, 0; 2001 HS₈, 2, 1, 0; 2001 NT₁₂, 2, 1, 0; 2001 OW₂₂, 2, 1, 0; 2001 OC₂₃, 4, 1, 0; 2001 OU₂₉, 2, 1, 0; 2001 OS₃₃, 2, 1, 0; 2001 OG₃₇, 2, 1, 0; 2001 OY₅₁, 3, 1, 0; 2001 ON₅₅, 4, 2, 11; 2001 OJ₆₂, 2, 1, 0; 2001 OC₉₉, 2, 1, 0; 2001 PL₁₁, 2, 1, 0; 2001 PH₁₆, 2, 1, 0; 2001 PF₄₃, 2, 1, 0; 2001 QT₂₆, 4, 1, 0; 2001 QU₁₁₄, 2, 1, 0; 2001 QA₁₂₃, 4, 1, 0; 2001 QL₁₉₆, 2, 1, 0; 2001 QQ₁₉₉, 2, 1, 0; 2001 QG₂₀₃, 3, 1, 0; 2001 QH₂₀₅, 4, 1, 0; 2001 QZ₂₆₅, 3, 1, 0; 2001 QG₂₆₈, 2, 1, 0; 2001 QX₂₈₈, 2, 1, 0; 2001 QY₃₀₅, 4, 1, 0; 2001 QH₃₃₀, 2, 1, 0; 2001 RT₁, 4, 1, 0; 2001 RD₁₃, 2, 1, 0; 2001 RH₄₁, 2, 1, 0; 2001 RJ₄₇, 2, 1, 0; 2001 RC₅₄, 2, 1, 0; 2001 RE₇₂, 2, 1, 0; 2001 RT₁₀₃, 2, 1, 0; 2001 RU₁₁₂, 2, 1, 0; 2001 RF₁₁₅, 4, 2, 2; 2001 RC₁₃₀, 2, 1, 0; 2001 SU₁₂, 2, 1, 0; 2001 SH₁₅, 3, 1, 0; 2001 SS₄₉, 4, 2, 5; 2001 SH₆₈, 2, 1, 0; 2001 SR₈₆, 3, 1, 0; 2001 SF₁₀₄, 6, 2, 20; 2001 SG₁₁₂, 4, 1, 0; 2001 SO₁₁₂, 2, 1, 0; 2001 SD₁₂₅, 4, 1, 0; 2001 SP₁₅₂, 3, 1, 0; 2001 SC₁₆₇, 2, 1, 0; 2001 SR₁₇₅, 4, 1, 0; 2001 SB₁₇₈, 2, 1, 0; 2001 SB₁₈₆, 4, 1, 0; 2001 SK₂₀₇, 2, 1, 0; 2001 SA₂₂₃, 2, 1, 0; 2001 SK₂₅₈, 2, 1, 0; 2001 SW₂₆₃, 4, 1, 0; 2001 SG₂₆₄, 3, 1, 0; 2001 SH₂₉₄, 2, 1, 0; 2001 SC₃₁₇, 2, 1, 0; 2001 SB₃₂₃, 2, 1, 0; 2001 ST₃₄₅, 2, 1, 0; 2001 SX₃₅₃, 4, 2, 41; 2001 TP₇, 10, 4, 6; 2001 TC₁₃, 4, 2, 5; 2001 TP₁₆, 4, 1, 0; 2001 TZ₂₃, 4, 1, 0; 2001 TJ₂₅, 2, 1, 0; 2001 TO₂₈, 3, 1, 0; 2001 TD₃₁, 2, 1, 0; 2001 TJ₃₉, 2, 1, 0; 2001 TX₄₈, 2, 1, 0; 2001 TK₅₇, 3, 1, 0; 2001 TC₆₉, 4, 1, 0; 2001 TN₇₆, 5, 2, 4; 2001 TR₈₂, 2, 1, 0; 2001 TZ₈₆, 5, 2, 6; 2001 TJ₈₈, 2, 1, 0; 2001 TS₁₁₁, 2, 1, 0; 2001 TJ₁₁₅, 2, 1, 0; 2001 TU₁₁₅, 2, 1, 0; 2001 TX₁₂₃, 2, 1, 0; 2001 TL₁₇₅, 2, 1, 0; 2001 TG₁₇₈, 2, 1, 0; 2001 TJ₁₈₀, 2, 1, 0; 2001 TS₁₈₁, 3, 1, 0; 2001 TG₁₉₈, 2, 1, 0; 2001 TU₂₁₃, 2, 1, 0; 2001 TB₂₂₉, 2, 1, 0; 2001 TC₂₃₁, 2, 1, 0; 2001 TR₂₃₉, 2, 1, 0; 2001 TK₂₄₀, 4, 1, 0; 2001 UD₇, 2, 1, 0; 2001 UF₁₁, 3, 1, 0; 2001 UQ₁₉, 3, 1, 0; 2001 UW₄₀, 2, 1, 0; 2001 UE₅₁, 4, 2, 4; 2001 UN₅₃, 2, 1, 0; 2001 UR₈₄, 2, 1, 0; 2001 UR₉₄, 2, 1, 0; 2001 UZ₁₁₀, 2, 1, 0; 2001 UO₁₂₃, 2, 1, 0; 2001 UK₁₂₄, 2, 1, 0; 2001 UJ₁₆₄, 4, 1, 0; 2001 UA₁₈₄, 6, 3, 6; 2001 UO₂₀₆, 3, 1, 0; 2001 UR₂₁₂, 2, 1, 0; 2001 UE₂₁₈, 2, 1, 0; 2001 UU₂₂₄, 4, 1, 0; 2001 VZ₄, 2, 1, 0; 2001 VB₁₂, 2, 1, 0; 2001 VV₁₅, 2, 1, 0; 2001 VA₂₄, 2, 1, 0; 2001 VK₃₄, 4, 1, 0; 2001 VF₅₆, 2, 1, 0; 2001 VG₅₉, 3, 1, 0; 2001 VE₈₁, 2, 1, 0; 2001 VS₈₆, 2, 1, 0; 2001 VF₈₇, 2, 1, 0; 2001 VJ₁₀₉, 2, 1, 0; 2001 VG₁₁₄, 2, 1, 0; 2001 WH₃, 1, 0; 2001 WR₂, 4, 2, 4; 2001 WX₄₃, 4, 1, 0; 2001 WM₅₁, 3, 1, 0; 2001 WU₆₀, 4, 1, 0; 2001 WJ₁₀₀, 4, 1, 0; 2001 XG₂₆, 2, 1, 0; 2001 XF₃₁, 4, 2, 7; 2001 XL₆₀, 4, 1, 0; 2001 XP₆₉, 3, 1, 0; 2001 XP₇₆, 3, 1, 0; 2001 XQ₁₀₂, 2, 1, 0; 2001 XU₁₀₃, 2, 1, 0; 2001 XP₁₀₉, 4, 1, 0; 2001 XL₁₃₉, 4, 1, 0; 2001 XP₁₈₆, 3, 1, 0; 2001 XD₁₈₇, 3, 1, 0; 2001 XX₂₁₇, 2, 1, 0; 2001 XH₂₃₇, 4, 1, 0; 2001 XS₂₃₉, 2, 1, 0; 2001 XB₂₄₆, 4, 1, 0; 2001 YX₃₄, 2, 1, 0; 2001 YB₄₇, 4, 1, 0; 2001 YK₇₈, 4, 1, 0; 2001 YJ₁₁₀, 2, 1, 0; 2001 YK₁₅₅, 2, 1, 0; 2001 YF₁₆₂, 2, 1, 0; 2002 AC₁₁, 2, 1, 0; 2002 AU₁₇, 2, 1, 0; 2002 AD₁₈, 2, 1, 0; 2002 AJ₂₁, 2, 1, 0; 2002 AG₂₂, 4, 2, 2; 2002 AH₄₃, 4, 1, 0; 2002 AP₁₃₁, 2, 1, 0; 2002 AM₁₄₃, 2, 1, 0; 2002 AG₁₄₈, 2, 1, 0; 2002 AG₁₆₆, 2, 1, 0; 2002 AP₁₇₁, 2, 1, 0; 2002 BL₂₀, 2, 1, 0; 2002 CJ₁₀, 4, 2, 1; 2002 CP₂₅, 4, 1, 0; 2002 CU₂₇, 2, 1, 0; 2002 CC₂₄, 2, 1, 0; 2002 CC₁₁₈, 2, 1, 0; 2002 CM₁₂₆, 2, 1, 0; 2002 CA₁₂₉, 5, 2, 5; 2002 CY₁₆₆, 2, 1, 0; 2002 CQ₁₇₆, 3, 1, 0; 2002 CY₁₈₈, 2, 1, 0; 2002 CF₂₁₀, 2, 1, 0; 2002 CO₂₁₄, 2, 1, 0; 2002 CJ₂₂₃, 2, 1, 0; 2002 CR₂₇₉, 5, 2, 5; 2002 CN₂₈₁, 4, 1, 0; 2002 CA₂₈₆, 4, 1, 0; 2002 CR₃₀₄, 2, 1, 0; 2002 DU₁, 2, 1, 0; 2002 DM₈, 2, 1, 0; 2002 EF₆, 6, 3, 19; 2002 EO₃₄, 3, 1, 0; 2002 EO₁₂₆, 3, 1, 0; 2002 FE₂₀, 2, 1, 0; 2002 FA₂₆, 2, 1, 0; 2002 GZ₄, 1, 0; 2002 GJ₆, 2, 1, 0; 2002 GA₄₇, 3, 1, 0; 2002 GO₄₉, 2, 1, 0; 2002 GX₅₆, 3, 1, 0; 2002 GD₆₁, 3, 1, 0; 2002 GY₆₂, 3, 1, 0; 2002 GU₈₅, 2, 1, 0; 2002 GS₉₃, 2, 1, 0; 2002 GD₁₆₀, 2, 1, 0; 2002 GG₁₆₁, 4, 1, 0; 2002 GX₁₈₁, 2, 1, 0; 2002 GM₁₈₃, 2, 1, 0; 2002 HW₅, 2, 1, 0; 2002 HQ₇, 5, 2, 4; 2002 JV₆, 2, 1, 0; 2002 JX₄₉, 2, 1, 0; 2002 JH₆₇, 2, 1, 0; 2002 JA₇₅, 4, 2, 46; 2002 JV₈₇, 2, 1, 0; 2002 JQ₉₉, 2, 1, 0; 2002 JV₁₁₆, 2, 1, 0; 2002 LH₁₃, 2, 1, 0; 2002 LK₁₇, 2, 1, 0; 2002 LH₂₇, 3, 1, 0; 2002 LG₃₄, 2, 1, 0; 2002 LW₃₉, 4, 1, 0; 2002 LD₄₄, 2, 1, 0; 2002 LC₆₃, 3, 1, 0; 2002 NB₄, 4, 1, 0; 2002 NO₁₄, 4, 1, 0; 2002 NF₅₃, 4, 1, 0; 2002 NR₅₄, 3, 1, 0; 2002 NL₆₆, 4, 2, 4; 2002 NQ₆₆, 4, 1, 0; 2002 NU₇₅, 3, 1, 0; 2002 NC₇₇, 4, 1, 0; 2002 OB₆, 4, 2, 39; 2002 OQ₁₁, 2, 1, 0; 2002 OM₁₂, 4, 2, 2; 2002 OQ₁₂, 4, 1, 0;

2002 OD₁₅, 2, 1, 0; 2002 OR₁₅, 5, 2, 4; 2002 OB₁₆, 6, 2, 4; 2002 OE₃₆, 4, 1, 0; 2002 OK₃₆, 4, 1, 0; 2002 PF₁₆, 4, 2, 2; 2002 PR₂₅, 4, 1, 0; 2002 PJ₄₁, 2, 1, 0; 2002 PH₅₃, 3, 1, 0; 2002 PM₈₃, 4, 1, 0; 2002 PC₉₆, 2, 1, 0; 2002 PV₉₈, 3, 1, 0; 2002 PS₁₀₉, 5, 2, 4; 2002 PU₁₁₂, 4, 1, 0; 2002 PH₁₁₃, 2, 1, 0; 2002 PN₁₁₃, 2, 1, 0; 2002 PA₁₁₅, 4, 1, 0; 2002 PU₁₂₈, 2, 1, 0; 2002 PG₁₄₂, 2, 1, 0; 2002 PC₁₅₂, 4, 1, 0; 2002 PB₁₆₄, 6, 2, 5; 2002 PK₁₆₅, 3, 1, 0; 2002 PK₁₇₀, 6, 3, 6; 2002 PD₁₉₁, 4, 1, 0; 2002 PA₁₉₈, 4, 1, 0; 2002 QZ₁₀, 8, 2, 6; 2002 QB₁₄, 2, 1, 0; 2002 QL₁₅, 2, 1, 0; 2002 QX₂₄, 4, 2, 8; 2002 QZ₂₆, 2, 1, 0; 2002 QA₂₇, 4, 1, 0; 2002 QW₇₉, 2, 1, 0; 2002 QR₈₂, 4, 2, 4; 2002 QB₈₆, 2, 1, 0; 2002 QB₉₀, 2, 1, 0; 2002 QV₁₀₂, 4, 2, 7; 2002 QQ₁₁₀, 4, 1, 0; 2002 QK₁₃₁, 4, 1, 0; 2002 QL₁₃₉, 3, 1, 0; 2002 QP₁₄₆, 3, 1, 0; 2002 QG₁₄₇, 3, 1, 0; 2002 RP₁, 4, 1, 0; 2002 RT₄, 3, 1, 0; 2002 RV₃₈, 3, 1, 0; 2002 RG₅₁, 4, 1, 0; 2002 RS₅₆, 4, 1, 0; 2002 RH₇₀, 4, 1, 0; 2002 RX₇₃, 10, 3, 6; 2002 RM₁₂₈, 3, 1, 0; 2002 RR₁₃₃, 4, 1, 0; 2002 RH₁₇₆, 2, 1, 0; 2002 RN₁₇₆, 3, 1, 0; 2002 RL₂₂₅, 2, 1, 0; 2002 RJ₂₅₆, 4, 1, 0; 2002 RR₂₆₅, 3, 1, 0; 2002 RD₂₈₃, 3, 1, 0; 2002 SJ₁₂, 4, 1, 0; 2002 SX₁₄, 2, 1, 0; 2002 SX₂₀, 4, 1, 0; 2002 SN₂₅, 3, 1, 0; 2002 SL₄₆, 3, 1, 0; 2002 SX₄₉, 4, 1, 0; 2002 SH₇₄, 4, 1, 0; 2002 TC₆, 2, 1, 0; 2002 TV₂₂, 4, 1, 0; 2002 TK₅₇, 3, 1, 0; 2002 TA₈₂, 2, 1, 0; 2002 TY₉₅, 3, 1, 0; 2002 TS₁₀₈, 2, 1, 0; 2002 TW₁₀₉, 2, 1, 0; 2002 TO₁₁₂, 2, 1, 0; 2002 TQ₁₁₆, 2, 1, 0; 2002 TU₁₂₃, 4, 1, 0; 2002 TG₁₃₆, 3, 1, 0; 2002 TT₁₃₈, 2, 1, 0; 2002 TB₁₄₈, 4, 1, 0; 2002 TB₁₆₀, 2, 1, 0; 2002 TZ₁₆₈, 2, 1, 0; 2002 TB₁₆₉, 2, 1, 0; 2002 TP₁₇₀, 2, 1, 0; 2002 TW₁₇₁, 6, 3, 41; 2002 TC₂₆₉, 2, 1, 0; 2002 TB₂₈₀, 2, 1, 0; 2002 TR₂₉₉, 4, 1, 0; 2002 TD₃₁₅, 2, 1, 0; 2002 TB₃₆₇, 2, 1, 0; 2002 TG₃₈₄, 2, 1, 0; 2002 TA₃₈₇, 4, 1, 0; 2002 UH₄, 2, 1, 0; 2002 UX₉, 2, 1, 0; 2002 UO₄₂, 3, 1, 0; 2002 UU₆₀, 2, 1, 0; 2002 UV₇₀, 2, 1, 0; 2002 UV₇₇, 3, 1, 0; 2002 VS₂₂, 3, 1, 0; 2002 VC₂₈, 4, 1, 0; 2002 VJ₃₁, 2, 1, 0; 2002 VY₄₂, 4, 1, 0; 2002 VE₅₂, 3, 1, 0; 2002 VZ₅₃, 4, 1, 0; 2002 UV₆₈, 2, 1, 0; 2002 VP₉₆, 3, 1, 0; 2002 VN₁₀₆, 3, 1, 0; 2002 VZ₁₁₀, 2, 1, 0; 2002 VD₁₃₅, 4, 1, 0; 2002 VN₁₄₅, 4, 1, 0; 2002 WJ₇, 2, 1, 0; 2002 WB₉, 2, 1, 0; 2002 WQ₂₅, 2, 1, 0; 2002 XE₈₉, 2, 1, 0; 2002 YJ₂₃, 3, 1, 0; 2003 AV₁₆, 2, 1, 0; 2003 AF₄₁, 6, 3, 28; 2003 BR₆₀, 2, 1, 0; 2003 BL₇₀, 4, 1, 0; 2003 BW₇₂, 2, 1, 0; 2003 DQ₂, 2, 1, 0; 2003 EJ₁₄, 2, 1, 0; 2003 ER₁₅, 2, 1, 0; 2003 EV₄₇, 8, 1, 0; 2003 ED₅₆, 4, 1, 0; 2003 FS₂₁, 2, 1, 0; 2003 FP₆₃, 2, 1, 0; 2003 FU₇₀, 2, 1, 0; 2003 FN₇₅, 2, 1, 0; 2003 FZ₁₀₇, 6, 2, 100; 2003 FC₁₂₄, 2, 1, 0; 2003 FO₃₁, 2, 1, 0; 2003 GW₂₈, 2, 1, 0; 2003 GF₄₀, 2, 1, 0; 2003 HL₁, 4, 2, 14; 2003 HG₄, 3, 1, 0; 2003 HC₁₄, 2, 1, 0; 2003 HR₂₂, 6, 2, 21; 2003 HZ₃₈, 5, 2, 83; 2003 JL₂, 2, 1, 0; 2003 JX₁₆, 2, 1, 0; 2003 KD₁₉, 4, 2, 4; 2003 LA₂, 2, 1, 0; 2003 LG₃, 1, 0; 2003 LS₂, 4, 2, 8; 2003 MD₆, 2, 1, 0; 2003 NR₂, 2, 1, 0; 2003 NU₁₁, 5, 2, 50; 2003 OM₉, 4, 2, 6; 2003 OR₉, 2, 1, 0; 2003 OD₁₁, 4, 2, 3; 2003 OA₁₃, 2, 1, 0; 2003 ON₁₃, 3, 1, 0; 2003 OB₁₉, 6, 2, 5; 2003 PG₇, 2, 1, 0; 2003 PR₉, 2, 1, 0; 2003 PO₁₁, 2, 1, 0; 2003 PB₁₃, 2, 1, 0; 2003 QV₁₈, 2, 1, 0; 2003 QW₂₁, 2, 1, 0; 2003 QC₂₉, 2, 1, 0; 2003 QL₂₉, 2, 1, 0; 2003 QH₄₀, 2, 1, 0; 2003 QC₄₄, 2, 1, 0; 2003 QA₅₉, 2, 1, 0; 2003 QG₆₀, 2, 1, 0; 2003 QO₆₃, 2, 1, 0; 2003 QZ₇₂, 2, 1, 0; 2003 QV₈₁, 2, 1, 0; 2003 QL₈₆, 2, 1, 0; 2003 QV₁₀₄, 2, 1, 0; 2003 QD₁₀₅, 2, 1, 0; 2003 QS₁₀₉, 6, 3, 50; 2003 RA₂₂, 2, 1, 0; 2003 RU₂₂, 2, 1, 0; 2003 RU₂₅, 4, 2, 46; 2003 RN₂₆, 2, 1, 0; 2003 SX₄, 2, 1, 0; 2003 SB₁₁, 2, 1, 0; 2003 SN₃₂, 2, 1, 0; 2003 SN₃₅, 2, 1, 0; 2003 SP₃₇, 2, 1, 0; 2003 SC₃₈, 4, 1, 0; 2003 SR₄₁, 2, 1, 0; 2003 SN₄₄, 2, 1, 0; 2003 SW₄₇, 2, 1, 0; 2003 SH₅₄, 2, 1, 0; 2003 SJ₆₃, 2, 1, 0; 2003 SA₉₀, 2, 1, 0; 2003 SR₁₀₀, 2, 1, 0; 2003 SK₁₁₃, 2, 1, 0; 2003 SD₁₃₃, 3, 1, 0; 2003 SP₁₃₃, 2, 1, 0; 2003 SR₁₃₉, 2, 1, 0; 2003 ST₁₃₉, 3, 1, 0; 2003 SR₁₄₄, 4, 1, 0; 2003 SW₁₇₃, 2, 1, 0; 2003 SF₁₇₄, 2, 1, 0; 2003 SE₁₇₆,

1, 0; 2004 EE₁₃, 3, 1, 0; 2004 EQ₅₃, 2, 1, 0; 2004 ER₆₀, 2, 1, 0; 2004 EY₆₆, 3, 1, 0; 2004 EK₇₈, 2, 1, 0; 2004 EV₈₀, 3, 1, 0; 2004 EN₈₅, 4, 1, 0; 2004 EU₁₁₁, 3, 1, 0; 2004 FY₂, 1, 0; 2004 FF₁₃, 3, 1, 0; 2004 FE₂₁, 3, 1, 0; 2004 FE₃₈, 2, 1, 0; 2004 FM₄₀, 3, 1, 0; 2004 FE₄₂, 4, 1, 0; 2004 FS₅₆, 2, 1, 0; 2004 FN₇₄, 4, 1, 0; 2004 FX₉₅, 4, 1, 0; 2004 FQ₁₁₆, 2, 1, 0; 2004 FG₁₂₄, 2, 1, 0; 2004 FR₁₃₄, 3, 1, 0; 2004 FS₁₄₀, 3, 1, 0; 2004 FU₁₄₂, 4, 1, 0; 2004 GQ₁₂, 4, 2, 12; 2004 GF₂₁, 2, 1, 0; 2004 GZ₂₃, 2, 1, 0; 2004 GE₃₈, 4, 1, 0; 2004 GN₅₀, 2, 1, 0; 2004 GC₇₇, 3, 1, 0; 2004 HL₅₅, 2, 1, 0; 2004 HU₅₆, 4, 2, 5; 2004 JT₁, 3, 1, 0; 2004 JO₂, 2, 1, 0; 2004 JP₁₁, 6, 3, 5; 2004 JD₁₃, 2, 1, 0; 2004 KL₁₀, 2, 1, 0; 2004 KO₁₂, 4, 2, 2; 2004 LD₁₁, 2, 1, 0; 2004 LW₁₆, 3, 1, 0; 2004 LY₂₃, 2, 1, 0; 2004 LL₃₀, 2, 1, 0; 2004 MG₆, 2, 1, 0; 2004 NA₁, 2, 1, 0; 2004 ND₁, 2, 1, 0; 2004 NE₆, 3, 1, 0; 2004 NQ₁₃, 2, 1, 0; 2004 NL₁₉, 2, 1, 0; 2004 OL₁, 2, 1, 0; 2004 OY₈, 2, 1, 0; 2004 PL₂, 4, 1, 0; 2004 PU₆, 3, 1, 0; 2004 PQ₈, 2, 1, 0; 2004 PJ₁₄, 2, 1, 0; 2004 PZ₂₆, 2, 1, 0; 2004 PW₂₉, 2, 1, 0; 2004 PJ₃₂, 2, 1, 0; 2004 PW₃₃, 2, 1, 0; 2004 PK₃₄, 2, 1, 0; 2004 PY₃₄, 2, 1, 0; 2004 PV₅₂, 3, 1, 0; 2004 PR₅₆, 2, 1, 0; 2004 PE₆₅, 2, 1, 0; 2004 PK₈₃, 2, 1, 0; 2004 PC₉₉, 2, 1, 0; 2004 PL₁₀₃, 2, 1, 0; 2004 PZ₁₁₂, 2, 1, 0; 2004 QH₁, 3, 1, 0; 2004 QH₃, 4, 1, 0; 2004 QV₄, 3, 1, 0; 2004 QK₅, 4, 1, 0; 2004 QJ₁₀, 2, 1, 0; 2004 QF₂₄, 4, 1, 0; 2004 QR₂₆, 3, 1, 0; 2004 RR₇, 2, 1, 0; 2004 RM₃₈, 2, 1, 0; 2004 RY₄₃, 2, 1, 0; 2004 RT₅₄, 2, 1, 0; 2004 RP₆₃, 4, 1, 0; 2004 RC₆₆, 4, 1, 0; 2004 RK₇₁, 2, 1, 0; 2004 RB₇₂, 6, 1, 0; 2004 RJ₈₉, 2, 1, 0; 2004 RG₉₈, 2, 1, 0; 2004 RY₉₉, 4, 1, 0; 2004 RK₁₀₁, 4, 1, 0; 2004 RP₁₀₁, 2, 1, 0; 2004 RX₁₀₃, 4, 1, 0; 2004 RZ₁₄₂, 3, 1, 0; 2004 RJ₁₅₄, 3, 1, 0; 2004 RJ₁₅₅, 4, 1, 0; 2004 RF₁₅₆, 3, 1, 0; 2004 RB₁₆₅, 2, 1, 0; 2004 RS₁₆₉, 2, 1, 0; 2004 RK₁₈₀, 4, 2, 11; 2004 RJ₁₈₆, 2, 1, 0; 2004 RP₁₈₆, 3, 1, 0; 2004 RM₁₈₈, 4, 1, 0; 2004 RL₁₉₁, 2, 1, 0; 2004 RM₁₉₂, 3, 1, 0; 2004 RV₁₉₃, 4, 1, 0; 2004 RH₁₉₄, 4, 1, 0; 2004 RC₁₉₅, 2, 1, 0; 2004 RG₁₉₅, 2, 1, 0; 2004 RV₂₀₃, 2, 1, 0; 2004 RW₂₁₃, 3, 1, 0; 2004 RX₂₁₃, 3, 1, 0; 2004 RR₂₁₅, 3, 1, 0; 2004 RU₂₃₄, 2, 1, 0; 2004 RM₂₅₂, 2, 1, 0; 2004 RT₂₅₄, 3, 1, 0; 2004 RP₂₆₂, 2, 1, 0; 2004 RX₂₈₉, 2, 1, 0; 2004 RX₃₀₇, 2, 1, 0; 2004 RF₃₀₉, 2, 1, 0; 2004 RJ₃₁₉, 4, 1, 0; 2004 RC₃₄₆, 2, 1, 0; 2004 SF₄₆, 4, 1, 0; 2004 SU₄₆, 3, 1, 0; 2004 ST₆₀, 2, 1, 0; 2004 TJ₉, 3, 1, 0; 2004 TP₁₂, 2, 1, 0; 2004 TR₄₈, 3, 1, 0; 2004 TN₆₈, 4, 1, 0; 2004 TZ₆₆, 2, 1, 0; 2004 TL₆₈, 3, 1, 0; 2004 TZ₆₈, 2, 1, 0; 2004 TT₇₅, 4, 1, 0; 2004 TC₁₁₀, 2, 1, 0; 2004 TS₁₁₀, 3, 1, 0; 2004 TQ₁₂₆, 2, 1, 0; 2004 TK₁₆₂, 4, 1, 0; 2004 TR₁₆₅, 2, 1, 0; 2004 TP₁₉₆, 4, 1, 0; 2004 TL₂₀₃, 4, 1, 0; 2004 TY₂₈₀, 2, 1, 0; 2004 TG₂₉₈, 2, 1, 0; 2004 TG₃₂₈, 4, 1, 0; 2004 TF₃₄₆, 2, 1, 0; 2004 TG₃₄₈, 2, 1, 0; 2004 TH₃₅₆, 4, 2, 2; 2004 TU₃₅₆, 4, 1, 0; 2004 UZ₉, 2, 1, 0; 2004 VM₁₁, 4, 2, 2; 2004 VC₆₄, 2, 1, 0; 2004 UV₇₂, 2, 1, 0; 2004 VD₇₆, 4, 1, 0; 2004 VF₉₂, 4, 1, 0; 2004 WM₃, 1, 0; 2004 XH₆, 4, 1, 0; 2004 XQ₁₆, 2, 1, 0; 2004 XJ₁₇, 2, 1, 0; 2004 XH₂₈, 4, 1, 0; 2004 XH₄₉, 2, 1, 0; 2004 XO₆₁, 2, 1, 0; 2004 XO₆₆, 2, 1, 0; 2004 XR₆₈, 2, 1, 0; 2004 XT₇₀, 4, 1, 0; 2004 XC₇₉, 2, 1, 0; 2004 XH₉₅, 4, 1, 0; 2004 XB₁₀₂, 2, 1, 0; 2004 XK₁₄₅, 3, 1, 0; 2004 YH₃₁, 2, 1, 0; 2004 YS₃₁, 4, 1, 0; 2005 AC₂₇, 2, 1, 0; 2005 AN₂₇, 2, 1, 0; 2005 AT₃₇, 2, 1, 0; 2005 AH₃₈, 4, 2, 3; 2005 AR₃₈, 2, 1, 0; 2005 AG₃₉, 2, 1, 0; 2005 AE₄₀, 2, 1, 0; 2005 AB₄₁, 2, 1, 0; 2005 AE₅₆, 3, 1, 0; 2005 AR₆₆, 3, 1, 0; 2005 AV₆₇, 2, 1, 0; 2005 AC₇₇, 2, 1, 0; 2005 BR₁₁, 2, 1, 0; 2005 BV₁₁, 2, 1, 0; 2005 BE₁₂, 2, 1, 0; 2005 CU₂, 2, 1, 0; 2005 CG₄, 8, 4, 28; 2005 CP₆, 4, 1, 0; 2005 CU₁₃, 4, 2, 2; 2005 CO₃₉, 4, 1, 0; 2005 CY₅₆, 2, 1, 0; 2005 CT₆₁, 2, 1, 0; 2005 EU₁, 2, 1, 0; 2005 EA₁₅, 4, 1, 0; 2005 EW₂₅, 3, 1, 0; 2005 EG₁₀₂, 2, 1, 0; 2005 EK₁₀₃, 3, 1, 0; 2005 ES₁₀₆, 4, 2, 5; 2005 EV₁₁₈, 3, 1, 0; 2005 EQ₁₃₈, 2, 1, 0; 2005 ED₁₄₆, 2, 1, 0; 2005 EA₁₆₃, 3, 1, 0; 2005 EW₁₇₃, 3, 1, 0; 2005 EL₁₈₂, 3, 1, 0; 2005 EM₁₉₅, 2, 1, 0; 2005 EC₂₃₆, 2, 1, 0; 2005 EQ₂₆₄, 5, 2, 5; 2005 EC₂₇₇, 2, 1, 0; 2005 EX₃₁₅, 3, 1, 0; 2005 FU₁, 2, 1, 0; 2005 FG₆, 4, 2, 2; 2005 GH₉, 2, 1, 0; 2005 GK₃₁, 2, 1, 0; 2005 GA₃₇, 2, 1, 0; 2005 GX₅₅, 2, 1, 0; 2005 GS₆₉, 2, 1, 0; 2005 GS₇₉, 2, 1, 0; 2005 GR₈₂, 4, 2, 6; 2005 GD₁₁₃, 2, 1, 0; 2005 GP₁₃₀, 2, 1, 0; 2005 GE₁₃₆, 2, 1, 0; 2005 GQ₁₅₁, 2, 1, 0; 2005 GM₁₆₁, 4, 2, 2; 2005 GN₁₇₇, 2, 1, 0; 2005 GS₁₇₉, 4, 2, 1, 0; 2005 GN₂₀₀, 2, 1, 0; 2005 HR₇, 6, 2, 5; 2005 JN₂, 2, 1, 0; 2005 JL₁₄, 6, 3, 5; 2005 JV₂₀, 4, 2, 4; 2005 JW₃₂, 3, 1, 0; 2005 JA₃₃, 2, 1, 0; 2005 JB₃₄, 2, 1, 0; 2005 JP₄₃, 2, 1, 0; 2005 JH₄₄, 2, 1, 0; 2005 JN₅₅, 2, 1, 0; 2005 JN₆₃, 4, 2, 4; 2005 JS₆₄, 3, 1, 0; 2005 JY₆₅, 2, 1, 0; 2005 JE₆₉, 4, 1, 0; 2005 JD₇₄, 2, 1, 0; 2005 JS₇₉, 2, 1, 0; 2005 JZ₉₉, 6, 2, 2; 2005 JI₁₀₆, 2, 1, 0; 2005 JQ₁₀₈, 2, 1, 0; 2005 JF₁₁₇, 4, 2, 10; 2005 JS₁₁₇, 4, 1, 0; 2005 JA₁₂₁, 2, 1, 0; 2005 JE₁₂₇, 2, 1, 0; 2005 JG₁₃₆, 4, 2, 2; 2005 JG₁₅₇, 4, 2, 11; 2005 JM₁₇₆, 4, 2, 4; 2005 KH₇, 4, 2, 2; 2005 KV₇, 2, 1, 0; 2005 KE₁₃, 3, 1, 0; 2005 LZ₁₄, 2, 1, 0; 2005 LN₂₀, 2, 1, 0; 2005 LU₂₀, 3, 1, 0; 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F65 Haleakala-Faulkes Telescope North

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Observers P. Miller, P. Roche, A. Tripp, R. Miles, R. Holmes, S. Foglia, L. Buzzi, T. Lister, L. Kurtze, C. Kurtze, F. Bianco, J. Tufts, N. Howes, E. Guido, G. Sostero, J. D. Armstrong

2.0-m Ritchey-Chrétien + CCD

NOMAD, USNO-B1.0, 2MASS

{13} 2011 KU₁₇, 2, 1, 0; 2011 MN₁, 10, 2, 3; 2011 MR₃, 3, 1, 0; 2011 MM₄, 7, 2, 1; [22, 4, 0*, 2011/06/24-2011/07/01]

{14} 2000 VB₃₅, 5, 1, 0; 2010 FP₁₀₀, 9, 1, 0; 2011 AG₅, 4, 2, 1; 2011 LU₂₀, 3, 1, 0; 2011 LD₂₁, 3, 1, 0; 2011 LE₂₁, 4, 1, 0; 2011 MQ₃, 12, 1, 0; 2011 MM₄, 3, 1, 0; (1222958), 9, 1, 0; (134340), 5, 1, 0; (241447), 6, 1, 0; [63, 11, 0*, 2011/06/09-2011/07/09]

{7} 1990 TV₉, 3, 1, 0; 2005 AN₂₆, 2, 1, 0; 2011 LJ₂₀, 3, 1, 0; (199728), 2, 1, 0; [10, 4, 0*, 2011/06/13-2011/06/23]

{9} (25886), 3, 1, 0; [3, 1, 0*, 2011/07/08]

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0.35-m $f/2.0$ Schmidt + CCD

USNO-B1.0

2001 QG₂₅₉, 3, 1, 0; 2002 QE₅₄, 2, 1, 0; 2004 GJ₂₁, 2, 1, 0; 2005 JB₁₇₇, 2, 1, 0; 2005 LL₁₃, 2, 1, 0; 2005 UZ₆₄, 2, 1, 0; 2005 UJ₁₅₆, 2, 1, 0; 2005 UT₂₁₉, 3, 1, 0; 2006 VF₁₇₀, 2, 1, 0; 2007 UK₂₅, 2, 1, 0; (2705), 2, 1, 0; (3274), 3, 1, 0; (3303), 2, 1, 0; (7211), 2, 1, 0; (9803), 2, 1, 0; (12131), 5, 2, 1; (17234), 2, 1, 0; (18625), 3, 1, 0; (19777), 3, 1, 0; (20483), 3, 1, 0; (28400), 3, 1, 0; (28417), 2, 1, 0; (29301), 2, 1, 0; (32189), 3, 1, 0; (32823), 4, 2, 9; (38127), 2, 1, 0; (39683), 6, 2, 6; (40951), 3, 1, 0; (41375), 3, 1, 0; (41737), 2, 1, 0; (44135), 3, 1, 0; (50471), 2, 1, 0; (50978), 3, 1, 0; (51807), 3, 1, 0; (54452), 3, 1, 0; (56853), 3, 1, 0; (57161), 2, 1, 0; (59981), 2, 1, 0; (73981), 3, 1, 0; (80104), 2, 1, 0; (84368), 2, 1, 0; (91782), 3, 1, 0; (92187), 4, 2, 4; (97833), 2, 1, 0; (102510), 3, 1, 0; (109068), 3, 1, 0; (109669), 2, 1, 0; (111384), 3, 1, 0; (113995), 2, 1, 0; (114614), 3, 1, 0; (114634), 2, 1, 0; (116865), 3, 1, 0; (119398), 3, 1, 0; (119734), 9, 3, 3; (123827), 3, 1, 0; (124737), 2, 1, 0; (126241), 2, 1, 0; (126457), 2, 1, 0; (126696), 8, 3, 2; (128449), 2, 1, 0; (137404), 3, 1, 0; (141314), 2, 1, 0; (142618), 3, 1, 0; (143765), 3, 1, 0; (144550), 2, 1, 0; (147037), 3, 1, 0; (147245), 3, 1, 0; (148558), 2, 1, 0; (148726), 3, 1, 0; (150892), 2, 1, 0; (153630), 2, 1, 0; (167905), 2, 1, 0; (172233), 2, 1, 0; (176773), 2, 1, 0; (178816), 3, 1, 0; (212443), 2, 1, 0; (217333), 6, 2, 2; (217379), 3, 1, 0; (217885), 3, 1, 0; (218246), 3, 1, 0; (218472), 3, 1, 0; (220562), 3, 1, 0; (221538), 3, 1, 0; (221665), 6, 2, 2; (247639), 2, 1, 0; (248317), 2, 1, 0; (263379), 3, 1, 0; (264931), 3, 1, 0; (265521), 3, 1, 0; (268750), 6, 2, 2; [256, 90, 0*, 2009/06/24-2009/07/29]

F85 Tiki Observatory, Punaauia

N. Teamo, BP 380493, F-98718 Punaauia-Tamanu, French Polynesia

[ateamo@mail.pf]

0.41-m $f/8.0$ Ritchey-Chrétien + CCD

UCAC-2

2005 LL₁₃, 2, 1, 0; 2009 QK₄₈, 2, 1, 0; (3274), 3, 1, 0; (32189), 6, 2, 2; (32221), 2, 1, 0; (37372), 3, 1, 0; (38329), 3, 1, 0; (39683), 5, 2, 27; (42827), 3, 1, 0; (46418), 2, 1, 0; (48651), 3, 1, 0; (53692), 2, 1, 0; (54940), 3, 1, 0; (55566), 2, 1, 0; (56812), 3, 1, 0; (70516), 3, 1, 0; (77486), 3, 1, 0; (79127), 3, 1, 0; (79198), 2, 1, 0; (80689), 3, 1, 0; (110498), 5, 2, 6; (123827), 3, 1, 0; (143418), 3, 1, 0; (143765), 3, 1, 0; (148923), 3, 1, 0; (151461), 3, 1, 0; (154901), 2, 1, 0; (156085), 3, 1, 0; (178765), 3, 1, 0; (217379), 3, 1, 0; [89, 30, 0*, 2009/06/25-2009/07/29]

G50 Organ Mesa Observatory, Las Cruces

F. Pilcher, 4438 Organ Mesa Loop, Las Cruces, NM 88011-8403 U.S.A.

[pilcher@ic.edu]

Observer F. Pilcher

Measurer D. S. Dixon

0.36-m $f/10$ Schmidt-Cassegrain + CCD

UCAC-2

(217), 8, 3, 12; (878), 3, 1, 0; (1036), 6, 2, 1; (22600), 2, 1, 0; [19, 4, 0*, 2010/07/17-2011/06/30]

G51 Byrne Observatory, Sedgwick Reserve

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A.

[tllister@lcoqt.net]

Observer B. J. Fulton

Measurer T. Lister

0.8-m $f/8$ Ritchey-Chrétien + CCD

USNO-B1.0

2011 MD, 16, 3, 2; 2011 NY, 4, 1, 0; (129982), 3, 1, 0; [23, 3, 0*, 2011/06/23-2011/07/09]

G53 Alder Springs Observatory, Auberry

N. Teamo, BP 380493, F-98718 Punaauia-Tamanu, French Polynesia

[ateamo@mail.pf]

Observer K. Levin

Measurer N. Teamo

0.51-m $f/8.51$ Ritchey-Chrétien + CCD
USNO-B1.0

2001 UK₈₉, 2, 1, 0; 2003 SX₂₉₁, 3, 1, 0; 2003 SR₃₆₂, 3, 1, 0; 2003 UL₁₁, 3, 1, 0; 2006 DJ₂₀₆, 2, 1, 0; 2006 OF₁₄, 5, 2, 7; 2007 EO₉₆, 2, 1, 0; 2007 MD, 3, 1, 0; 2007 RU₁₃₂, 2, 1, 0; 2007 SS, 2, 1, 0; 2008 TS, 3, 1, 0; 2008 YG₂₄, 3, 1, 0; 2011 LQ₁₆, 3, 1, 0; (10288), 3, 1, 0; (27066), 3, 1, 0; (47524), 3, 1, 0; (53169), 3, 1, 0; (85474), 3, 1, 0; (90274), 3, 1, 0; (106441), 4, 1, 0; (107197), 3, 1, 0; (108814), 3, 1, 0; (120790), 2, 1, 0; (152586), 3, 1, 0; (194074), 2, 1, 0; (197755), 2, 1, 0; (199778), 3, 1, 0; (206789), 2, 1, 0; (230744), 2, 1, 0; (238660), 2, 1, 0; (246305), 3, 1, 0; (276686), 2, 1, 0; [87, 32, 0*, 2011/06/14–2011/06/28]

G56 Walnut Creek

G. McKeegan, 1760 First Ave., Walnut Creek, CA 94597, U.S.A.
[geraldspace@earthlink.net]

0.28-m Schmidt-Cassegrain + CCD + $f/6.2$ focal reducer
PPMXL

2008 LV₁₆, 4, 1, 0; 2011 KP₁₇, 3, 1, 0; (3988), 7, 1, 0; [14, 3, 0*, 2011/07/01–2011/07/02]

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]

0.9-m $f/4.5$ Cassegrain + CCD
PPMXL

2007 RT₉, 3, 1, 0; 2011 ME, 3, 1, 0; 2011 ND, 4, 1, 0; (3988), 5, 1, 0; (86666), 4, 1, 0; [19, 5, 0*, 2011/07/03–2011/07/04]

G68 Sierra Stars Observatory, Markleeville

R. Williams, 115 Chambers Lane, Markleeville, CA 96120, U.S.A.
[richw@sierrastars.com]

Observers R. Dymock, T. Thaluang, T. Vorobjov, M. Langbroek, J. Cerny
Measurers R. Dymock, T. Thaluang, T. Vorobjov, M. Langbroek, M. Mašek
0.61-m $f/10$ Cassegrain + CCD

USNO-B1.0, PPMXL

2011 KR₃, 6, 2, 1; 2011 KE₄, 2, 1, 0; 2011 LC₁₉, 3, 1, 0; 2011 LV₂₆, 3, 1, 0; 2011 MP₄, 6, 2, 2; 2011 MV₈, 3, 1, 0; [23, 6, 0*, 2011/06/23–2011/07/08]

G69 Thousand Oaks

J. W. Brinsfield, 5180 Via Capote, Thousand Oaks, CA 91320, U.S.A.
[jbrinsfi@gmail.com]

0.40-m $f/10$ Cassegrain + CCD
UCAC-2

(2573), 3, 1, 0; (2731), 30, 5, 8; (6192), 33, 6, 9; (18856), 3, 1, 0; (26697), 3, 1, 0; (29292), 36, 7, 14; [108, 6, 0*, 2011/06/15–2011/07/05]

G84 Mount Lemmon SkyCenter

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

Observers R. Kracht, G. Barentsen, R. Dymock
0.81-m $f/7$ reflector + CCD, 0.81-m $f/7$ Ritchey-Chrétien + CCD
USNO-B1.0

2010 CR₁₀₅, 9, 2, 1; 2011 KU₂₀, 2, 1, 0; (74295), 5, 1, 0; [16, 3, 0*, 2011/06/25–2011/07/01]

G89 Kachina Observatory, Flagstaff

J. Hobart, 975 Mesa Trail, Flagstaff, AZ 86001-9632, U.S.A.
[nova@needspeed.net]

0.36-m $f/11.2$ Schmidt-Cassegrain + CCD
UCAC-2, UCAC-3

2001 SY₃₆, 6, 2, 1; 2002 TV₂₂₁, 6, 2, 1; 2003 RE₁₅, 6, 2, 1; 2006 XO₅₁, 6, 2, 1; 2007 JC₄₂, 6, 2, 1; 2007 LE₃₄, 6, 2, 1; 2007 PT₂₁, 6, 2, 1; 2007 RB₄₁, 6, 2, 1; 2008 RK₁₀₇, 6, 2, 1; 2011 CQ₄, 3, 1, 0; 2011 KW₁₆, 3, 1, 0; 2011 KJ₁₇, 3, 1, 0; 2011 LQ₄, 3, 1, 0; 2011 LD₈, 3, 1, 0; 2011 LW₁₀, 3,

1, 0; 2011 LO₁₂, 3, 1, 0; 2011 LA₁₇, 3, 1, 0; 2011 LG₁₇, 3, 1, 0; 2011 LQ₁₇, 3, 1, 0; 2011 MD, 3, 1, 0; [87, 20, 0*, 2011/06/11–2011/07/01]

G92 Jarnac Observatory, Vail

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

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

2002 XL₂₉, 4, 1, 0; 2003 YC₇₈, 3, 1, 0; 2005 PK₂, 3, 1, 0; 2011 DL₁₉, 3, 1, 0; 2011 HO₂₆, 4, 1, 0; 2011 KW₃₉, 3, 1, 0; 2011 MP₈, 4, 1, 0; (239), 4, 1, 0; (295), 4, 1, 0; (673), 4, 1, 0; (951), 4, 1, 0; (1095), 8, 2, 1; (1316), 3, 1, 0; (1430), 4, 1, 0; (1553), 4, 1, 0; (1596), 4, 1, 0; (1765), 3, 1, 0; (1779), 4, 1, 0; (1888), 4, 1, 0; (1938), 4, 1, 0; (1990), 4, 1, 0; (2136), 4, 1, 0; (2172), 4, 1, 0; (2348), 4, 1, 0; (2393), 4, 1, 0; (2478), 4, 1, 0; (2788), 4, 1, 0; (2844), 3, 1, 0; (2948), 4, 1, 0; (2972), 4, 1, 0; (3048), 4, 1, 0; (3106), 4, 1, 0; (3206), 4, 1, 0; (3442), 4, 1, 0; (3491), 4, 1, 0; (4092), 4, 1, 0; (4176), 4, 1, 0; (4264), 3, 1, 0; (4323), 4, 1, 0; (4448), 4, 1, 0; (4685), 3, 1, 0; (4906), 4, 1, 0; (5172), 3, 1, 0; (5269), 4, 1, 0; (5302), 4, 1, 0; (5327), 4, 1, 0; (5500), 4, 1, 0; (5566), 4, 1, 0; (5647), 4, 1, 0; (5675), 3, 1, 0; (5894), 3, 1, 0; (5973), 4, 1, 0; (6008), 4, 1, 0; (6075), 4, 1, 0; (6140), 4, 1, 0; (6160), 4, 1, 0; (6225), 4, 1, 0; (6457), 4, 1, 0; (6615), 4, 1, 0; (6647), 4, 1, 0; (6865), 4, 1, 0; (6907), 4, 1, 0; (6980), 3, 1, 0; (7039), 3, 1, 0; (7043), 3, 1, 0; (7117), 4, 1, 0; (7164), 4, 1, 0; (7167), 3, 1, 0; (7253), 4, 1, 0; (7321), 3, 1, 0; (7523), 4, 1, 0; (7966), 4, 1, 0; (8018), 4, 1, 0; (8189), 4, 1, 0; (8225), 4, 1, 0; (8590), 4, 1, 0; (8710), 4, 1, 0; (8755), 4, 1, 0; (8926), 4, 1, 0; (8972), 4, 1, 0; (9000), 4, 1, 0; (9216), 4, 1, 0; (9352), 2, 1, 0; (9398), 4, 1, 0; (9793), 4, 1, 0; (9977), 4, 1, 0; (10140), 4, 1, 0; (10144), 4, 1, 0; (10240), 4, 1, 0; (10392), 3, 1, 0; (10706), 4, 1, 0; (10816), 4, 1, 0; (11255), 4, 1, 0; (11286), 4, 1, 0; (11364), 4, 1, 0; (11409), 4, 1, 0; (11772), 4, 1, 0; (12564), 4, 1, 0; (12704), 7, 2, 1; (12736), 3, 1, 0; (13207), 4, 1, 0; (13240), 4, 1, 0; (13430), 4, 1, 0; (14012), 3, 1, 0; (14281), 4, 1, 0; (14548), 3, 1, 0; (15037), 3, 1, 0; (15772), 3, 1, 0; (15878), 4, 1, 0; (15982), 4, 1, 0; (16019), 4, 1, 0; (16319), 4, 1, 0; (16347), 4, 1, 0; (16923), 4, 1, 0; (17161), 3, 1, 0; (17599), 4, 1, 0; (17650), 4, 1, 0; (18522), 4, 1, 0; (19361), 3, 1, 0; (19926), 4, 1, 0; (20116), 4, 1, 0; (20703), 4, 1, 0; (21475), 4, 1, 0; (21502), 4, 1, 0; (21605), 4, 1, 0; (21655), 4, 1, 0; (22560), 4, 1, 0; (22774), 4, 1, 0; (22787), 3, 1, 0; (23350), 3, 1, 0; (23636), 4, 1, 0; (25273), 3, 1, 0; (25389), 4, 1, 0; (25870), 4, 1, 0; (26110), 4, 1, 0; (26127), 4, 1, 0; (26328), 3, 1, 0; (26439), 3, 1, 0; (26610), 4, 1, 0; (26621), 4, 1, 0; (26844), 4, 1, 0; (26949), 3, 1, 0; (27133), 2, 1, 0; (27171), 4, 1, 0; (27198), 4, 1, 0; (27267), 4, 1, 0; (27280), 4, 1, 0; (27539), 4, 1, 0; (27607), 4, 1, 0; (27989), 4, 1, 0; (28047), 3, 1, 0; (28398), 4, 1, 0; (28446), 4, 1, 0; (29638), 4, 1, 0; (29682), 4, 1, 0; (29801), 3, 1, 0; (29988), 4, 1, 0; (30285), 4, 1, 0; (30412), 3, 1, 0; (30482), 4, 1, 0; (31388), 4, 1, 0; (31550), 4, 1, 0; (31573), 4, 1, 0; (31965), 4, 1, 0; (32215), 4, 1, 0; (32238), 4, 1, 0; (32590), 4, 1, 0; (32808), 4, 1, 0; (32815), 4, 1, 0; (32956), 4, 1, 0; (33110), 4, 1, 0; (33710), 4, 1, 0; (34353), 3, 1, 0; (36135), 3, 1, 0; (36813), 4, 1, 0; (37177), 4, 1, 0; (37354), 4, 1, 0; (37547), 4, 1, 0; (37746), 4, 1, 0; (37783), 4, 1, 0; (37885), 4, 1, 0; (38381), 4, 1, 0; (39190), 4, 1, 0; (39745), 4, 1, 0; (39871), 3, 1, 0; (40618), 4, 1, 0; (40831), 4, 1, 0; (40911), 4, 1, 0; (40993), 4, 1, 0; (41364), 3, 1, 0; (41708), 3, 1, 0; (41769), 4, 1, 0; (42144), 4, 1, 0; (43188), 3, 1, 0; (43261), 3, 1, 0; (43847), 4, 1, 0; (44064), 4, 1, 0; (44291), 4, 1, 0; (45156), 4, 1, 0; (45290), 4, 1, 0; (46166), 3, 1, 0; (46272), 4, 1, 0; (46283), 4, 1, 0; (46385), 4, 1, 0; (47089), 3, 1, 0; (48668), 4, 1, 0; (49442), 3, 1, 0; (49586), 4, 1, 0; (49622), 4, 1, 0; (49658), 4, 1, 0; (49732), 4, 1, 0; (50102), 4, 1, 0; (50864), 4, 1, 0; (50990), 3, 1, 0; (51324), 4, 1, 0; (52772), 4, 1, 0; (52844), 4, 1, 0; (52931), 4, 1, 0; (52971), 3, 1, 0; (53127), 4, 1, 0; (53540), 4, 1, 0; (53620), 4, 1, 0; (53840), 4, 1, 0; (56354), 4, 1, 0; (56530), 4, 1, 0; (56669), 4, 1, 0; (57163), 3, 1, 0; (57596), 4, 1, 0; (57916), 4, 1, 0; (59188), 4, 1, 0; (60133), 4, 1, 0; (60350), 4, 1, 0; (60444), 4, 1, 0; (60646), 4, 1, 0; (61152), 4, 1, 0; (61506), 3, 1, 0; (61638), 4, 1, 0; (61736), 3, 1, 0; (61991), 4, 1, 0; (63137), 4, 1, 0; (64223), 4, 1, 0; (64665), 4, 1, 0; (66416), 3, 1, 0; (66441), 4, 1, 0; (69860), 4, 1, 0; (70707), 4, 1, 0; (71414), 4, 1, 0; (72191), 4, 1, 0; (74409), 4, 1, 0; (75064), 3, 1, 0; (77765), 4, 1, 0; (82029), 4, 1, 0; (82499), 4, 1, 0; (83437), 4, 1, 0; (84675), 4, 1, 0; (86594), 4, 1, 0; (86973), 4, 1, 0; (87091), 4, 1, 0; (87109), 4, 1, 0; (87125), 4, 1, 0; (87164), 4, 1, 0; (87167), 4, 1, 0; (88310), 4, 1, 0; (88338), 4, 1, 0; (88486), 4, 1, 0; (88651), 4, 1, 0; (90389), 3, 1, 0; (92476), 3, 1, 0; (93150), 3, 1, 0; (93648), 4, 1, 0; (94072), 4, 1, 0; (96307), 3, 1, 0; (96746), 4, 1, 0; (96892), 4, 1, 0; (97446), 4, 1, 0; (98653), 4, 1, 0; (104568), 4, 1, 0; (105031), 4, 1, 0; (108089), 4, 1, 0; (112441), 4, 1, 0; (114045), 3, 1, 0; (114271), 2, 1, 0; (116130), 4, 1, 0; (119328), 3, 1, 0; (120430), 4, 1, 0; (120803), 4, 1, 0; (124127), 4, 1, 0; (124658), 4, 1, 0; (124970), 4, 1, 0; (125157), 4, 1, 0; (126169), 3, 1, 0; (131403), 4, 1, 0; (132587), 4, 1, 0; (132627), 4, 1, 0; (132973), 4, 1, 0; (138533), 4, 1, 0; (142935), 4, 1, 0; (149622), 4, 1, 0; (151936), 4, 1, 0; (154478), 4, 1, 0; (156818), 4, 1, 0; (159236), 4, 1, 0; (159413), 3, 1, 0; (163955), 4, 1, 0; (164142), 4, 1, 0; (166142), 4, 1, 0; (167972), 4, 1, 0; (190730), 3, 1, 0; (192708), 4, 1, 0; (193173), 4, 1, 0; (195197), 4, 1, 0; (197559), 3, 1, 0; (201003), 4, 1, 0; (201956), 4, 1, 0; (226560), 4, 1, 0; (228631), 4, 1, 0; (235677), 3, 1, 0; (276560), 4, 1, 0; (279832), 4, 1, 0; (281642), 4, 1, 0; [1219, 320, 0*, 2005/07/12–2011/07/02]

G96 Mt. Lemmon Survey

E. Beshore, 1629 E. University Blvd., Tucson, AZ 85721-0092, U.S.A.

[ebeshore@lpl.arizona.edu]

Observers A. R. Gibbs, R. A. Kowalski, A. Boattini, S. M. Larson

Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs,

A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught

1.5-m reflector + CCD

UCAC-2

1984 QY1, 1, 0; 1990 TV9, 4, 1, 0; 1992 WR4, 4, 1, 0; 1993 OH3, 4, 1, 0; 1994 SF5, 4, 1, 0; 1994 SB12, 5, 1, 0; 1995 OP4, 4, 1, 0; 1995 OL11, 4, 1, 0; 1995 OA17, 4, 1, 0; 1995 SQ45, 4, 1, 0; 1995 SS73, 8, 2, 29; 1995 SH76, 4, 1, 0; 1995 UO, 4, 1, 0; 1995 WG18, 7, 2, 3; 1996 FQ13, 4, 1, 0; 1996 TA17, 4, 1, 0; 1996 TZ34, 4, 1, 0; 1997 QU2, 4, 1, 0; 1997 WM6, 4, 1, 0; 1998 FL14, 4, 1, 0; 1998 HY, 3, 1, 0; 1998 KH9, 4, 1, 0; 1998 MW17, 4, 1, 0; 1998 QP63, 5, 1, 0; 1998 QJ89, 4, 1, 0; 1998 RU3, 3, 1, 0; 1998 ST106, 3, 1, 0; 1998 TU29, 4, 1, 0; 1998 XN6, 4, 1, 0; 1998 XY65, 4, 1, 0; 1999 CW133, 4, 1, 0; 1999 RE66, 4, 1, 0; 1999 RC91, 4, 1, 0; 1999 RD126, 4, 1, 0; 1999 RF240, 4, 1, 0; 1999 TN65, 4, 1, 0; 1999 TE92, 4, 1, 0; 1999 TP134, 4, 1, 0; 1999 TH193, 4, 1, 0; 1999 TP246, 4, 1, 0; 1999 TV249, 4, 1, 0; 1999 TE255, 4, 1, 0; 1999 TA263, 4, 1, 0; 1999 UO28, 4, 1, 0; 1999 UE30, 3, 1, 0; 1999 VH1, 5, 1, 0; 1999 VJ44, 3, 1, 0; 1999 VT50, 7, 1, 0; 1999 VP185, 4, 1, 0; 1999 XC9, 4, 1, 0; 1999 XA31, 3, 1, 0; 1999 XE155, 4, 1, 0; 2000 AZ99, 4, 1, 0; 2000 AS44, 4, 1, 0; 2000 AB147, 4, 1, 0; 2000 AQ196, 4, 1, 0; 2000 BE20, 4, 1, 0; 2000 DG11, 4, 1, 0; 2000 DN11, 4, 1, 0; 2000 DQ49, 4, 1, 0; 2000 EJ37, 5, 1, 0; 2000 ER142, 4, 1, 0; 2000 FE10, 8, 2, 14; 2000 FP50, 4, 1, 0; 2000 FC51, 4, 1, 0; 2000 FS51, 4, 1, 0; 2000 GP51, 4, 1, 0; 2000 HZ, 4, 1, 0; 2000 LU29, 4, 1, 0; 2000 OR40, 5, 1, 0; 2000 QY2, 4, 1, 0; 2000 QY23, 4, 1, 0; 2000 QD24, 4, 1, 0; 2000 QZ38, 3, 1, 0; 2000 QO39, 4, 1, 0; 2000 QW59, 4, 1, 0; 2000 QK134, 4, 1, 0; 2000 QC157, 3, 1, 0; 2000 QO174, 3, 1, 0; 2000 QO201, 4, 1, 0; 2000 QF245, 4, 1, 0; 2000 RJ59, 8, 2, 20; 2000 RC98, 3, 1, 0; 2000 RE102, 4, 1, 0; 2000 SB11, 8, 2, 1452; 2000 SD18, 12, 3, 30; 2000 SP20, 4, 1, 0; 2000 SO98, 4, 1, 0; 2000 SJ188, 4, 1, 0; 2000 SC197, 4, 1, 0; 2000 SE225, 8, 2, 6; 2000 SF225, 4, 1, 0; 2000 SR248, 4, 1, 0; 2000 SL286, 4, 1, 0; 2000 SD290, 4, 1, 0; 2000 SN317, 3, 1, 0; 2000 SL367, 4, 1, 0; 2000 TV17, 8, 2, 19; 2000 TZ40, 4, 1, 0; 2000 TH41, 4, 1, 0; 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G98 Calvin-Rehoboth Observatory, Rehoboth

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0.4-m $f/8$ Ritchey-Chrétien + CCD + $f/5.2$ focal reducer

USNO-A2.0

2001 YZ₆₈, 5, 1, 0; 2007 TD₁₀₅, 3, 1, 0; 2007 VK₂₆₇, 2, 1, 0; 2008 TD₉, 10, 3, 2; 2010 CE₄₄, 5, 1, 0; 2010 DX₇, 6, 1, 0; 2010 ER₄₄, 3, 1, 0; 2011 MO₂ *, 7, 2, 1; (15645), 16, 2, 1; (16988), 6, 1, 0; (25243), 12, 2, 1; (80139), 3, 1, 0; (91226), 12, 2, 1; (97563), 4, 1, 0; (109023), 5, 1, 0; (111599), 7, 1, 0; (161340), 5, 1, 0; (194505), 4, 1, 0; [115, 18, 1*, 2011/06/26–2011/07/02]

H01 Magdalena Ridge Observatory, Socorro

W. H. Ryan, Magdalena Ridge Observatory, New Mexico Tech, Socorro, NM

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

2.4-m $f/8.9$ reflector + CCD

USNO-B1.0

2011 AG₅, 8, 2, 1; 2011 KP₃₆, 4, 1, 0; 2011 LW₁₉, 4, 1, 0; 2011 LD₂₀, 8, 2, 2; 2011 LU₂₆, 4, 1, 0; 2011 MD, 8, 2, 1; 2011 MT, 4, 1, 0; 2011 MU, 4, 1, 0; 2011 MV, 4, 1, 0; 2011 MX, 4, 1, 0; 2011 MR₁, 4, 1, 0; 2011 MT₁, 4, 1, 0; 2011 MU₁, 8, 2, 1; 2011 MV₁, 8, 2, 1; 2011 MW₁, 8, 2, 1;

2011 MZ₁, 4, 1, 0; 2011 MC₂, 4, 1, 0; 2011 MD₂, 4, 1, 0; 2011 MV₂, 4, 1, 0; 2011 MW₂, 4, 1, 0; 2011 MX₂, 4, 1, 0; 2011 MS₃, 3, 1, 0; 2011 MM₄, 11, 3, 5; [122, 23, 0*, 2011/06/09–2011/06/30]

H06 RAS Observatory, Mayhill

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[walcom77@gmail.com] (14)

R. Ligustri, Circolo Astrofili Talmassons Observatory, Talmassons (UD), Italy

[rolando.ligustri@tin.it] (19)

T. Yusa, 111-1 Kamenoko, Furukawa Inaba, Osaki city, Miyagi, Japan

[yusastar77@ybb.ne.jp] (31)

Observers E. Guido, G. Sostero, H. Sato, R. Ligustri, N. Howes

0.10-m $f/5$ reflector + CCD, 0.25-m $f/3.4$ reflector + CCD, 0.51-m $f/4.5$ reflector + CCD

USNO-B1.0, USNO-A2.0, UCAC-3, UCAC-2

{14} 2011 NY, 5, 1, 0; (957), 3, 1, 0; [8, 2, 0*, 2011/06/12–2011/07/07]

{19} 2011 LQ₁₉, 3, 1, 0; [3, 1, 0*, 2011/06/12]

{32} 2000 EJ₃₇, 5, 2, 3; 2008 YJ₅₀, 3, 1, 0; 2009 BH₇₇, 2, 1, 0; 2010 BK₁₁₈, 4, 2, 2; 2010 NV₁, 3, 1, 0; 2011 CG₂, 7, 1, 0; 2011 HO, 3, 1, 0; 2011 JE₁₀, 3, 1, 0; 2011 KX₁₁, 3, 1, 0; 2011 KY₁₁, 3, 1, 0; 2011 KP₃₆, 2, 1, 0; 2011 LF₁₂, 3, 1, 0; 2011 LJ₁₉, 2, 1, 0; 2011 MC, 3, 1, 0; 2011 MD, 6, 2, 1; 2011 MP, 3, 1, 0; 2011 MR, 3, 1, 0; 2011 MU, 3, 1, 0; 2011 MQ₁, 3, 1, 0; 2011 MZ₁, 2, 1, 0; 2011 MA₂, 3, 1, 0; 2011 MS₃, 3, 1, 0; 2011 MM₄, 2, 1, 0; 2011 MM₄, 2, 1, 0; 2011 MO₄, 3, 1, 0; 2011 ME₅, 3, 1, 0; 2011 NY, 2, 1, 0; 2011 NZ, 2, 1, 0; (1806), 2, 1, 0; (4273), 2, 1, 0; (4581), 6, 2, 28; (5796), 2, 1, 0; (8963), 2, 1, 0; (21698), 6, 1, 0; (29018), 2, 1, 0; (32815), 4, 1, 0; (33124), 2, 1, 0; (33776), 3, 1, 0; (34153), 2, 1, 0; (42292), 2, 1, 0; (42579), 2, 1, 0; (44429), 2, 1, 0; (45156), 8, 1, 0; (49845), 6, 2, 1; (66520), 2, 1, 0; (70539), 2, 1, 0; (86707), 9, 3, 7; (92984), 3, 1, 0; (95702), 6, 2, 1; (96258), 2, 1, 0; (102384), 2, 1, 0; (109032), 5, 2, 6; (110197), 2, 1, 0; (154388), 4, 1, 0; (155913), 2, 1, 0; (157167), 8, 3, 7; (157955), 2, 1, 0; (190188), 9, 3, 7; (193906), 2, 1, 0; (194488), 4, 1, 0; (197694), 4, 1, 0; (197890), 2, 1, 0; (225492), 2, 1, 0; (278974), 2, 1, 0; (280313), 5, 2, 7; [219, 65, 0*, 2011/06/10–2011/07/08]

H10 Tzec Maun Observatory, Mayhill

R. Wodaski, Tzec Maun Foundation, P.O. Box 137, Cloudcroft, NM 88317, U.S.A.

[ron@tzcemaun.org]

Observers E. Schwab, D. Chestnov, A. Novichonok, P. Camilleri, G. Sostero,

E. Guido, N. Howes, J. Linder, S. Plaksa, E. Bryssinck, L. Buzzi, S. Foglia,

G. Galli, M. Tombelli, S. Baroni, P. Concari

0.36-m $f/3.8$ Maksutov-Newtonian + CCD, 0.21-m $f/7.9$ refractor + CCD, 0.41-m $f/9$ Ritchey-Chrétien + CCD

UCAC-2, NOMAD, USNO-B1.0, USNO-A2.0, UCAC-3

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H15 ISON-NM Observatory, Mayhill

L. Elenin, 47-17 8th March St., Lyubertsy, Moscow region, 140007 Russia

[l.elenin@gmail.com]

0.45-m $f/2.8$ astrograph + CCD

NOMAD, UCAC-3

1999 SO₂, 4, 1, 0; 2000 EX₁₃, 4, 1, 0; 2000 QC₁₆₇, 4, 1, 0; 2001 PU₃₄, 4, 1, 0; 2002 LB₃₈, 4, 1, 0; 2002 LY₆₁, 4, 1, 0; 2002 LB₆₂, 4, 1, 0; 2002 QG₁₄₇, 4, 1, 0; 2002 RP₁₂₆, 4, 1, 0; 2002 TC₆, 4, 1, 0; 2002 VQ₁₁, 4, 1, 0; 2002 XO₃₄, 4, 1, 0; 2003 QZ₇₂, 4, 1, 0; 2003 RT₂₅, 4, 1, 0; 2004 FS₉₇, 4, 1, 0; 2004 PM₀₄, 4, 1, 0; 2004 QK₂₂, 4, 1, 0; 2004 TZ₁₃₆, 4, 1, 0; 2005 JN₆₃, 4, 1, 0; 2005 NM₂₁, 4, 1, 0; 2005 SQ₂₆₃, 4, 1, 0; 2005 WO₉₃, 4, 1, 0; 2005 XC₄, 4, 1, 0; 2006 BM₈₆, 4, 1, 0; 2006 DP₅₅, 4, 1,

0; 2006 NA, 4, 1, 0; 2006 QB, 4, 1, 0; 2006 QO₁₅₉, 4, 1, 0; 2006 SR₁₂₈, 4, 1, 0; 2007 BM₄₉, 4, 1, 0; 2007 PZ₂₂, 4, 1, 0; 2007 RS₃₁, 4, 1, 0; 2007 RV₁₈₇, 4, 1, 0; 2007 RA₂₀₄, 4, 1, 0; 2007 RK₃₁₁, 4, 1, 0; 2007 SP₂₃, 4, 1, 0; 2007 TL₄₃₄, 4, 1, 0; 2007 UW₃₆, 4, 1, 0; 2008 SZ₁₁₆, 4, 1, 0; 2008 SQ₃₀₁, 4, 1, 0; 2008 TR₁₀, 4, 1, 0; 2008 UK₂₅₅, 4, 1, 0; 2008 XD₃₂, 4, 1, 0; 2009 BK₇₂, 4, 1, 0; 2009 VN₁₀₄, 4, 1, 0; 2010 AL₆₁, 4, 1, 0; 2010 OJ₈₃, 4, 1, 0; 2010 VJ₉₅, 4, 1, 0; 2011 BP₈₅, 4, 1, 0; 2011 CS₈₅, 4, 1, 0; 2011 EJ₂₄, 4, 1, 0; 2011 FK₁₀, 4, 1, 0; 2011 FD₁₂, 4, 1, 0; 2011 FC₃₄, 4, 1, 0; 2011 FK₈₁, 4, 1, 0; 2011 FW₁₃₁, 4, 1, 0; 2011 FQ₁₄₁, 4, 1, 0; 2011 FW₁₄₁, 4, 1, 0; 2011 GS₃₁, 4, 1, 0; 2011 GA₇₇, 4, 1, 0; 2011 GJ₈₂, 4, 1, 0; 2011 GJ₈₃, 4, 1, 0; 2011 HZ₉, 4, 1, 0; 2011 HQ₁₂, 4, 1, 0; 2011 HT₁₂, 4, 1, 0; 2011 HU₁₂, 4, 1, 0; 2011 HZ₁₂, 4, 1, 0; 2011 HN₁₉, 4, 1, 0; 2011 HR₂₇, 4, 1, 0; 2011 HE₃₆, 4, 1, 0; 2011 HQ₅₅, 4, 1, 0; 2011 HO₆₂, 4, 1, 0; 2011 HJ₈₁, 4, 1, 0; 2011 JY₁₁, 4, 1, 0; 2011 JH₁₅, 4, 1, 0; 2011 JC₂₇, 4, 1, 0; 2011 JH₂₇, 4, 1, 0; 2011 JJ₂₇, 4, 1, 0; 2011 JH₂₈, 4, 1, 0; 2011 JN₂₉, 4, 1, 0; 2011 KH₁, 4, 1, 0; 2011 KD₃, 4, 1, 0; 2011 KU₄, 4, 1, 0; 2011 KP₇, 4, 1, 0; 2011 KX₇, 4, 1, 0; 2011 KN₈, 4, 1, 0; 2011 KT₁₁, 4, 1, 0; 2011 KC₂₇, 4, 1, 0; 2011 KC₃₀, 4, 1, 0; 2011 LY₁₀, 4, 1, 0; 2011 LU₂₄, 4, 1, 0; 2011 MT₃ *, 4, 1, 0; 2011 MW₄, 4, 1, 0; 2011 NM *, 7, 2, 1; 2011 NX *, 7, 2, 2; 2011 NK₁ *, 4, 1, 0; (232), 4, 1, 0; (277), 4, 1, 0; (293), 4, 1, 0; (402), 4, 1, 0; (428), 4, 1, 0; (566), 4, 1, 0; (597), 4, 1, 0; (608), 4, 1, 0; (656), 4, 1, 0; (657), 4, 1, 0; (666), 7, 2, 11; (767), 4, 1, 0; (796), 8, 2, 11; (819), 4, 1, 0; (832), 4, 1, 0; (896), 4, 1, 0; (1012), 4, 1, 0; (1039), 4, 1, 0; (1044), 4, 1, 0; (1074), 4, 1, 0; (1137), 4, 1, 0; (1200), 4, 1, 0; (1288), 4, 1, 0; (1316), 4, 1, 0; (1361), 4, 1, 0; (1561), 4, 1, 0; (1568), 4, 1, 0; (1630), 4, 1, 0; (1669), 4, 1, 0; (1672), 4, 1, 0; (1706), 4, 1, 0; (1720), 4, 1, 0; (1733), 4, 1, 0; (1763), 4, 1, 0; (1777), 4, 1, 0; (1879), 4, 1, 0; 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H17 Angel Peaks Observatory

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Observers R. Holmes, S. Foglia, T. Vorobjov, T. Linder

Measurers T. Vorobjov, J. Urbanski, H. Devore, S. Foglia, R. Holmes, T. Linder

0.61-m $f/4.0$ astrograph + CCD, 0.81-m $f/4.0$ astrograph + CCD

PPMXL, USNO-B1.0, UCAC-2, USNO-A2.0

1984 QY₁, 3, 1, 0; 2001 FV₁₈₆, 3, 1, 0; 2001 SV₂₄₆, 3, 1, 0; 2001 VC₅₃, 3, 1, 0; 2002 NV, 3, 1, 0; 2003 AL₇₃, 6, 1, 0; 2003 SA₁₄₈, 3, 1, 0; 2004 JO₂, 7, 2, 24; 2004 LH, 8, 2, 1; 2004 LJ, 3, 1, 0; 2004 VN₃₃, 3, 1, 0; 2004 XR₁₀, 2, 1, 0; 2005 JA₂₂, 3, 1, 0; 2006 DM₁₃₃, 3, 1, 0; 2006 FE₁₄, 3, 1, 0; 2006 SV₁₃₄, 3, 1, 0; 2006 WP₁₂₇, 4, 1, 0; 2007 HC₃₉, 3, 1, 0; 2007 JB₁₆, 3, 1, 0; 2007 LQ₁₉, 3, 1, 0; 2007 RT₉, 8, 2, 5; 2007 VK₁, 2, 1, 0; 2007 VA₁₅₆, 3, 1, 0; 2007 WH₄₀, 3, 1, 0; 2008 GH₁₁₀, 11, 4, 10; 2008 HE, 8, 2, 1; 2008 RJ₁, 3, 1, 0; 2008 RL₄₅, 3, 1, 0; 2008 SQ₇, 8, 3, 5; 2008 SK₃₀₉, 3, 1, 0; 2008 TR₁₀, 7, 2, 24; 2008 TW₁₁₀, 3, 1, 0; 2008 WY₆₈, 3, 1, 0; 2008 WJ₉₀, 3, 1, 0; 2008 YR₁₃₄, 3, 1, 0; 2009 BZ₆₅, 3, 1, 0; 2010 DP, 6, 2, 1; 2010 EU₄₄, 3, 1, 0; 2010 JU₃₉, 4, 1, 0; 2010 JA₁₄₈, 3, 1, 0; 2010 NJ₁, 5, 1, 0; 2011 AG₅, 8, 3, 4; 2011 AO₅₂, 6, 2, 24; 2011 EB₄₁, 3, 1, 0; 2011 FB₂₉, 6, 2, 20; 2011 FT₁₃₃, 3, 1, 0; 2011 GC, 4, 1, 0; 2011 GZ₅₄, 3, 1, 0; 2011 GL₆₀, 3, 1, 0; 2011 GA₆₂, 7, 2, 22; 2011 GL₆₂, 3, 1, 0; 2011 GQ₆₅, 7, 2, 1; 2011 HO, 4, 1, 0; 2011 HP, 3, 1, 0; 2011 HL₇, 6, 2, 5; 2011 HJ₁₇, 3, 1, 0; 2011 JK, 3, 1, 0; 2011 JA₈, 10, 3, 6; 2011 JP₉, 3, 1, 0; 2011 JP₂₉, 4, 1, 0; 2011 KE₃, 3, 1, 0; 2011 KH₄, 2, 1, 0; 2011 KN₉, 28, 7, 25; 2011 KC₁₅, 7, 2, 11; 2011 KN₁₇, 3, 1, 0; 2011 KP₁₇, 8, 2, 1; 2011 KQ₁₉, 6, 2, 8; 2011 KW₁₉, 3, 1, 0; 2011 LD₁, 8, 2, 4; 2011 LJ₁, 38, 10, 24; 2011 LX₁₀, 9, 3, 12; 2011 LN₁₂, 3, 1, 0; 2011 LB₁₄, 3, 1, 0; 2011 LT₁₇, 4, 1, 0; 2011 LA₁₉, 45, 13, 26; 2011 LC₁₉, 28, 7, 20; 2011 LD₁₉, 12, 3, 14; 2011 LK₁₉, 6, 2, 2; 2011 LW₁₉, 3, 1, 0; 2011 LD₂₀, 3, 1, 0; 2011 LJ₂₀, 7, 2, 2; 2011 LU₂₂, 3, 1, 0; 2011 LO₂₃, 3, 1, 0; 2011 MD, 11, 2, 1; 2011 ME, 33, 9, 17; 2011 MF, 3, 1, 0; 2011 MJ, 10, 3, 2; 2011 MK, 15, 4, 13; 2011 ML, 3, 1, 0; 2011 MT, 12, 3, 6; 2011 MU, 21, 6, 8; 2011 MV₁, 15, 4, 13; 2011 MW₁, 8, 2, 9; 2011 MW₂, 14, 4, 7; 2011 MX₂, 9, 3, 11; 2011 MY₂, 15, 5, 10; 2011 MZ₂, 13, 4, 6; 2011 MQ₃, 13, 4, 8; 2011 MR₃, 3, 1, 0; 2011 MT₃, 4, 1, 0; 2011 MM₄, 10, 3, 5; 2011 MN₄, 9, 3, 2; 2011 MO₄, 18, 5, 7; 2011 MP₄ *, 4, 1, 0; 2011 MC₅, 4, 1, 0; 2011 MD₅, 8, 3, 5; 2011 ME₅, 11, 4, 9; 2011 MK₅, 3, 1, 0; 2011 MV₉ *, 3, 1, 0; 2011 ND, 13, 4, 7; 2011 NP, 19, 5, 7; 2011 NQ, 4, 1, 0; 2011 NV, 16, 5, 5; 2011 NW, 3, 1, 0; 2011 NX, 3, 1, 0; 2011 NY, 13, 3, 3; 2011 NZ, 8, 2, 1; 2011 NK₁, 3, 1, 0; (162196), 2, 1, 0; (280082), 3, 1, 0; (281375), 5, 1, 0; [855, 121, 2*, 2011/03/13–2011/07/12]

H23 Pear Tree Observatory, Valparaiso

T. Haugh, 361 Okaloosa Ave, Valparaiso, FL 32580, U.S.A. [haugh@valp.net]

0.25-m $f/5.4$ Newtonian reflector + CCD

UCAC-3

(7482), 3, 1, 0; (13528), 3, 1, 0; (33769), 3, 1, 0; (68348), 3, 1, 0; [12, 4, 0*, 2011/06/19–2011/07/09]

H26 Doc Greiner Research Observatory, Janesville

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

0.40-m $f/10$ Schmidt-Cassegrain + CCD
USNO-B1.0

2008 TW₁₁₀, 3, 1, 0; 2011 DL₁₉, 26, 2, 1; 2011 EZ₇₈, 28, 2, 5; 2011 KN₉, 4, 1, 0; 2011 KP₁₇, 5, 1, 0; 2011 LL₂, 3, 1, 0; 2011 LA₁₉, 7, 2, 7; 2011 LD₁₉, 3, 1, 0; 2011 MK, 6, 2, 6; 2011 MT, 3, 1, 0; (89148), 3, 1, 0; [91, 11, 0*, 2011/06/06–2011/07/05]

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-3

2002 XU₆₆, 6, 2, 3; 2011 FZ₁₃₂, 3, 1, 0; 2011 HJ₁₇, 3, 1, 0; 2011 KP₁₇, 3, 1, 0; 2011 KF₂₆, 2, 1, 0; 2011 LH₈, 3, 1, 0; 2011 LF₁₆, 7, 2, 1; 2011 LC₁₉, 3, 1, 0; 2011 LD₁₉, 2, 1, 0; 2011 LU₂₂, 9, 3, 17; 2011 MC, 6, 2, 1; 2011 MD, 23, 6, 6; 2011 ME, 14, 4, 19; 2011 MF, 3, 1, 0; 2011 MJ, 8, 2, 1; 2011 MK, 2, 1, 0; 2011 MQ, 3, 1, 0; 2011 MT, 6, 2, 1; 2011 MU, 3, 1, 0; 2011 MW, 3, 1, 0; 2011 MQ₁, 3, 1, 0; 2011 MR₁, 2, 1, 0; 2011 MV₁, 2, 1, 0; 2011 MW₁, 3, 1, 0; 2011 MV₂, 3, 1, 0; 2011 MW₂, 2, 1, 0; 2011 MX₂, 5, 2, 3; 2011 MY₂, 3, 1, 0; 2011 MZ₂, 6, 2, 4; 2011 MQ₃, 6, 2, 6; 2011 MM₄, 7, 3, 3; 2011 MC₅, 3, 1, 0; 2011 MD₅, 2, 1, 0; 2011 ME₅, 3, 1, 0; 2011 ND, 3, 1, 0; 2011 NZ, 3, 1, 0; (238591), 3, 1, 0; [171, 37, 0*, 2011/03/04–2011/07/11]

H45 Arkansas Sky Obs., Petit Jean Mountain South

P. C. Sherrod, 73 Tanyard Springs Road, Petit Jean Mountain, Morrilton,

AR 72110, U.S.A. [drcclay@tcworks.net]

0.51-m $f/4.3$ astrograph + CCD

UCAC-3

2008 LV₁₆, 7, 1, 0; 2008 VH, 11, 2, 8; 2011 CH₇₁, 6, 1, 0; 2011 DL₁₉, 24, 4, 8; 2011 EZ₇₈, 63, 8, 15; 2011 MD, 100, 4, 3; (1036), 10, 2, 9; (162913), 5, 1, 0; [226, 8, 0*, 2011/06/24–2011/07/10]

H47 Vicksburg

C. Bell, 107 Judson Circle, Vicksburg, MS 39180, U.S.A.

[charbell@bellsouth.net]

0.3-m Schmidt-Cassegrain + CCD

PPMXL

2009 YS₆, 2, 1, 0; 2011 EZ₇₈, 4, 1, 0; 2011 FB₂₉, 3, 1, 0; (3726), 3, 1, 0; (5457), 4, 1, 0; (10306), 3, 1, 0; (27296), 3, 1, 0; [22, 7, 0*, 2011/06/13–2011/07/07]

H53 Thompsonville

D. A. Birmingham, 5663 Green Meadow Rd., Thompsonville, IL 62890, U.S.A.

[dave@arksky.org]

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

UCAC-2

(1866), 6, 1, 0; [6, 1, 0*, 2011/06/30]

I08 Alianza S4, Cerro Burek

R. Gil-Hutton, Casilla de Correo 467, Av. España 1512 sur, J5402DSP, San Juan,

Argentina [rgilhutton@casleo.gov.ar]

Observers J. L. Ortiz, N. Morales, I. de la Cueva, P. Santos-Sanz, R. Gil-Hutton

0.45-m $f/2.8$ reflector + CCD

UCAC-2

2011 NA₁ *, 14, 3, 3; [14, 1, 1*, 2011/07/07–2011/07/10]

I15 Wishing Star Observatory, Barrington

H. G. Peterson, 405 New Meadow Road, Barrington, RI 02806, U.S.A.

[pete@petersonengineering.com]

0.35-m $f/10$ Schmidt-Cassegrain + CCD + $f/6.3$ focal reducer

UCAC-3

2008 LV₁₆, 3, 1, 0; 2011 KP₁₇, 6, 2, 7; 2011 LA₁₉, 3, 1, 0; (1917), 3, 1, 0; (2102), 3, 1, 0; (68348), 3, 1, 0; [21, 6, 0*, 2011/06/30–2011/07/07]

I16 IAA-AI Atacama, San Pedro de Atacama

J. L. Ortiz, Instituto de Astrofísica de Andalucía, P. O. Box 3004, E-18080

Granada, Spain [ortiz@iaa.es]

Observers J. L. Ortiz, P. Santos-Sanz, N. Morales, I. de la Cueva

0.40-m $f/3.7$ reflector + CCD

UCAC-2

2011 NB₁ *, 22, 3, 2; [22, 1, 1*, 2011/07/10–2011/07/12]

I19 Observatorio El Gato Gris, Tanti

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

Observers C. Colazo, D. Gutierrez, G. Andrada, V. Bayona, J. Gallardo

0.36-m Schmidt-Cassegrain + CCD

UCAC-3

2002 MW₃, 3, 1, 0; 2003 NE₅, 3, 1, 0; 2011 ME₅, 3, 1, 0; 2011 NL, 6, 2, 1; 2011 NM, 3, 1, 0; 2011 NN, 6, 1, 0; 2011 NP, 3, 1, 0; [27, 7, 0*, 2011/07/03–2011/07/10]

I20 Rio Cuarto

F. D. Mazzone, 1469 Achalay Street, AR-5800 Rio Cuarto, Argentina

[fmazzone@exa.unrc.edu.ar]

0.20-m $f/4$ Schmidt-Newtonian + CCD

UCAC-3

(562), 7, 2, 1; (918), 8, 2, 4; (1581), 6, 2, 22; (2008), 9, 3, 7; (4615), 3, 1, 0; (33156), 3, 1, 0; (67108), 3, 1, 0; (124578), 2, 1, 0; (124968), 2, 1, 0; (169675), 7, 1, 0; (189219), 2, 1, 0; [52, 11, 0*, 2011/02/05–2011/07/07]

I24 Lake of the Woods Observatory, Locust Grove

G. R. Hubbell, 406 Yorktown Blvd., Locust Grove, VA 22508, U.S.A.

[jerry.hubbell@comcast.net]

0.13-m $f/7.5$ refractor + CCD

UCAC-3

(895), 5, 1, 0; (2150), 1, 1, 0; (6613), 3, 1, 0; (68348), 7, 1, 0; [16, 4, 0*, 2011/07/02]

I27 Barred Owl Observatory, Carp

A. Paquette, 121 Margaret Anne Drive, Carp, Ontario K0A 1L0, Canada

[andre@astrogeeks.com]

0.36-m Schmidt-Cassegrain + CCD

UCAC-3

2011 KN₉, 6, 2, 2; 2011 LB₂₁, 5, 2, 2; 2011 MD, 968, 1, 0; (37336), 15, 2, 2; [994, 4, 0*, 2011/06/27–2011/07/04]

I40 La Silla–TRAPPIST

E. Jehin, Liège University, 17 Allée du 6 Aout, 4000 Liège, Belgium

[ejehin@ulg.ac.be]

Observers E. Jehin, J. Manfroid, M. Gillon, D. Hutsemekers, P. Magain

0.60-m $f/8.0$ reflector + CCD

PPMXL

(21), 494, 1, 0; (69), 184, 1, 0; (2131), 119, 2, 1; (50000), 33, 3, 12; (134340), 12, 2, 5; [842, 5, 0*, 2011/04/30–2011/06/14]

I43 Tarleton State University Obs., 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

2005 EP₂₀₃, 2, 1, 0; 2011 MV₈, 2, 1, 0; [4, 2, 0*, 2011/06/27]

I76 Observatorio Tesla, Valdemorillo

J. Fernandez, Calle Picasso 8, 28210 Valdemorillo, Spain

[jfdesosa@castillosdesoria.com]

0.2-m *f*/4 astrograph + CCD

UCAC-3

2011 EZ₇₈, 4, 4, 3; (485), 4, 2, 1; (535), 4, 2, 1; (783), 4, 2, 1; [16, 4, 0*, 2011/06/01–2011/06/30]**I77 CEAMIG-REA Observatory, Belo Horizonte**

C. Jacques, P.O. Box 1084, Belo Horizonte, BR-30000 Minas Gerais, Brazil

[cjacqueslf@yahoo.com.br]

Observers C. Jacques, E. Pimentel

0.30-m *f*/3.0 reflector + CCD

UCAC-2

2011 MD, 7, 1, 0; [7, 1, 0*, 2011/06/26]

I78 Observatorio Principia, Málaga

J. M. Ruiz, Avenida Luis Buñuel, 6. CP. 29011 Málaga, Spain

[principia@astrosirio.org]

Observers J. M. Ruiz, J. Baez, I. Lozano, S. Cardenete, J. Chinchilla, M. Garrido

Measurer J. M. Ruiz

0.25-m *f*/4 Schmidt-Newtonian + CCD

CMC-14

(537), 6, 2, 2; (737), 6, 2, 2; [12, 2, 0*, 2011/06/08–2011/06/10]

I79 AstroCamp, Nerpio

S. Diaz Lopez, c/ Salvador 26bis 1 lo. E, Parla 28982, Spain

[samueldl@gmail.com]

Observer T. Lopez

Measurer S. Diaz Lopez

0.11-m *f*/5.9 refractor + CCD

UCAC-3

(58), 2, 1, 0; (128), 3, 1, 0; (287), 4, 2, 12; (304), 5, 1, 0; (484), 2, 1, 0; (542), 3, 1, 0; (570), 2, 1, 0; (669), 3, 1, 0; (796), 2, 1, 0; (1021), 2, 1, 0; (1130), 2, 1, 0; (1564), 3, 1, 0; (5518), 3, 1, 0; (13378), 2, 1, 0; (33651), 2, 1, 0; (42140), 2, 1, 0; (69369), 2, 1, 0; (76650), 3, 1, 0; [47, 18, 0*, 2011/05/27–2011/06/17]

I93 St Pardon de Conques

F. Losse, 12 Roberts, F-33210 St. Pardon de Conques, France

[florent_losse@yahoo.fr]

0.40-m *f*/5.0 reflector + CCD

UCAC-3, NOMAD

2003 BK₄₇, 4, 1, 0; 2011 MD, 5, 1, 0; 2011 MK, 4, 1, 0; 2011 MD₅, 3, 1, 0; 2011 ME₅, 3, 1, 0; 2011 ND, 3, 1, 0; [22, 6, 0*, 2011/06/24–2011/07/03]**I99 Observatorio Blanquita, Vaciamadrid**

F. Limon, Paseo Capa Negra, 6, B14, At B, E-28522 Rivas Vaciamadrid, Spain

[flimon@ea4su.org]

0.20-m Schmidt-Cassegrain + CCD

CMC

2003 BK₄₇, 3, 1, 0; 2011 DL₁₉, 9, 3, 12; 2011 MC, 3, 1, 0; (433), 3, 1, 0; (1036), 3, 1, 0; (1917), 3, 1, 0; (3988), 3, 1, 0; (7889), 3, 1, 0; (8567), 3, 1, 0; (68348), 6, 2, 13; [39, 10, 0*, 2011/06/17–2011/07/04]**J01 Observatorio Cielo Profundo, Oviedo**

J. J. Gonzalez, Alejandro Casona 1 4C, E-33013 Oviedo, Spain

[juanjosegd@telecable.es]

0.23-m *f*/6 Schmidt-Cassegrain + CCD

CMC

2011 MD, 7, 1, 0; [7, 1, 0*, 2011/06/24]

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 M. Busch, D. Koschny, R. Kracht, R. Kresken, P. Ruiz, H. Bill,

A. Drefke, P. Geffert

1.0-m *f*/4.4 reflector + CCD

USNO-A2.0

2000 QD₂₄, 3, 1, 0; 2001 QL₁₅₇, 3, 1, 0; 2001 QT₃₂₇, 3, 1, 0; 2001 RC₃, 3, 1, 0; 2001 XE₁₁₂, 3, 1, 0; 2002 KP₁₄, 3, 1, 0; 2002 PS₁₉₇, 3, 1, 0; 2002 VY₁₀₀, 3, 1, 0; 2003 DQ₂, 3, 1, 0; 2003 QE₄, 2, 1, 0; 2003 WX₁₃₉, 3, 1, 0; 2004 CC₉₉, 3, 1, 0; 2004 FF₆₁, 3, 1, 0; 2004 FS₉₇, 3, 1, 0; 2004 SB₅₉, 3, 1, 0; 2004 TB₅₄, 3, 1, 0; 2004 TR₁₆₅, 3, 1, 0; 2004 XD₂₈, 3, 1, 0; 2004 XO₆₁, 3, 1, 0; 2005 AB₂₆, 3, 1, 0; 2005 EA₁₆₃, 3, 1, 0; 2005 EX₁₇₁, 3, 1, 0; 2005 EU₂₁₇, 3, 1, 0; 2005 EL₂₅₂, 3, 1, 0; 2005 UO₁₁₄, 3, 1, 0; 2005 UQ₄₅₄, 2, 1, 0; 2005 VE₆, 3, 1, 0; 2005 WQ₁₀₄, 2, 1, 0; 2005 YQ₂₁₈, 3, 1, 0; 2006 BF₂₇, 3, 1, 0; 2006 BP₁₉₃, 3, 1, 0; 2006 FO₂₇, 3, 1, 0; 2006 KP₄₈, 3, 1, 0; 2006 SR₂₈₆, 3, 1, 0; 2007 BN₂₈, 3, 1, 0; 2007 CM₂₇, 3, 1, 0; 2007 DQ₄₉, 3, 1, 0; 2007 ER₈₈, 3, 1, 0; 2007 GF₈, 3, 1, 0; 2007 HV₅₄, 3, 1, 0; 2007 LS₃, 3, 1, 0; 2007 OA₆, 3, 1, 0; 2007 PW₄₆, 3, 1, 0; 2007 RH₃₁₅, 3, 1, 0; 2007 TM₁₅₂, 3, 1, 0; 2007 VA₃₃₅, 3, 1, 0; 2008 ES₈₉, 3, 1, 0; 2008 SX₁₄₇, 3, 1, 0; 2008 TO₇, 3, 1, 0; 2008 TL₁₁₁, 3, 1, 0; 2008 UR₉₈, 3, 1, 0; 2008 UB₁₈₈, 3, 1, 0; 2008 VX₃, 3, 1, 0; 2008 VQ₅₃, 3, 1, 0; 2008 WC₈₂, 3, 1, 0; 2010 CP₃₂, 3, 1, 0; 2010 CK₁₈₄, 3, 1, 0; 2010 FE₂₀, 3, 1, 0; 2010 JO₁₂₄, 3, 1, 0; 2011 ES₅₄, 3, 1, 0; 2011 HU₃₀, 3, 1, 0; 2011 JZ₂₈, 3, 1, 0; 2011 JA₂₉, 3, 1, 0; 2011 KL₂, 3, 1, 0; 2011 KN₂₁, 3, 1, 0; 2011 KP₂₈, 2, 1, 0; 2011 KM₂₉, 3, 1, 0; 2011 KO₂₉, 3, 1, 0; 2011 KN₃₃, 3, 1, 0; 2011 KQ₃₃, 3, 1, 0; 2011 KW₃₃, 3, 1, 0; 2011 KH₃₄, 3, 1, 0; 2011 KO₄₄ *, 3, 1, 0; 2011 KN₄₅ *, 3, 1, 0; 2011 KO₄₅ *, 3, 1, 0; 2011 KZ₄₆ *, 3, 1, 0; 2011 KT₄₇, 3, 1, 0; 2011 LK₃, 2, 1, 0; 2011 LR₆, 3, 1, 0; 2011 LQ₉, 3, 1, 0; 2011 LX₉, 3, 1, 0; 2011 LD₁₂, 3, 1, 0; 2011 LB₁₅, 3, 1, 0; 2011 LJ₂₁ *, 3, 1, 0; 2011 LK₂₁ *, 3, 1, 0; 2011 LL₂₁ *, 3, 1, 0; 2011 LM₂₁ *, 3, 1, 0; 2011 LN₂₁ *, 3, 1, 0; 2011 LO₂₁ *, 3, 1, 0; 2011 LU₂₄, 3, 1, 0; 2011 LR₂₆ *, 3, 1, 0; 2011 LS₂₆ *, 3, 1, 0; 2011 MB₃, 3, 1, 0; (59), 3, 1, 0; (163), 3, 1, 0; (239), 3, 1, 0; (928), 3, 1, 0; (1137), 3, 1, 0; (1151), 3, 1, 0; (1295), 3, 1, 0; (1704), 3, 1, 0; (1755), 3, 1, 0; (1936), 3, 1, 0; (2119), 3, 1, 0; (2172), 3, 1, 0; (2482), 3, 1, 0; (2834), 3, 1, 0; (2847), 3, 1, 0; (2889), 3, 1, 0; (3079), 3, 1, 0; (3106), 3, 1, 0; (3186), 3, 1, 0; (3369), 3, 1, 0; (3632), 3, 1, 0; (4025), 3, 1, 0; (4519), 6, 2, 5; (4557), 3, 1, 0; (4628), 3, 1, 0; (4960), 3, 1, 0; (5120), 3, 1, 0; (5328), 3, 1, 0; (5466), 3, 1, 0; (5521), 3, 1, 0; (5566), 3, 1, 0; (5716), 3, 1, 0; (6060), 3, 1, 0; (6072), 3, 1, 0; (6085), 3, 1, 0; (6213), 3, 1, 0; (6365), 3, 1, 0; (6488), 3, 1, 0; (7001), 3, 1, 0; (7018), 3, 1, 0; (7111), 3, 1, 0; (7176), 3, 1, 0; (7577), 3, 1, 0; (7683), 3, 1, 0; (7933), 3, 1, 0; (8144), 3, 1, 0; (8381), 3, 1, 0; (8475), 3, 1, 0; (8561), 3, 1, 0; (9196), 3, 1, 0; (9261), 3, 1, 0; (9398), 3, 1, 0; (9885), 3, 1, 0; (10119), 3, 1, 0; (10146), 3, 1, 0; (10168), 3, 1, 0; (10508), 3, 1, 0; (10663), 3, 1, 0; (10962), 3, 1, 0; (11085), 3, 1, 0; (11163), 3, 1, 0; (11187), 3, 1, 0; (11481), 3, 1, 0; (11526), 3, 1, 0; (11772), 3, 1, 0; (11778), 3, 1, 0; (11906), 3, 1, 0; (12066), 3, 1, 0; (12391), 3, 1, 0; (12475), 3, 1, 0; (12750), 3, 1, 0; (13203), 3, 1, 0; (13207), 3, 1, 0; (13493), 3, 1, 0; (14094), 3, 1, 0; (14414), 3, 1, 0; (14446), 3, 1, 0; (14480), 3, 1, 0; (14576), 3, 1, 0; (14818), 3, 1, 0; (15096), 3, 1, 0; (15292), 3, 1, 0; (15319), 3, 1, 0; (15386), 3, 1, 0; (15413), 3, 1, 0; (15475), 3, 1, 0; (15480), 3, 1, 0; (16001), 3, 1, 0; (16238), 3, 1, 0; (16246), 3, 1, 0; (16715), 3, 1, 0; (16785), 3, 1, 0; (17161), 3, 1, 0; (17165), 3, 1, 0; (17252), 3, 1, 0; (17283), 3, 1, 0; (17377), 3, 1, 0; (17573), 3, 1, 0; (17661), 3, 1, 0; (17798), 3, 1, 0; (18253), 3, 1, 0; (18370), 3, 1, 0; (18586), 3, 1, 0; (18995), 3, 1, 0; (19091), 3, 1, 0; (19216), 3, 1, 0; (19469), 3, 1, 0; (19592), 3, 1, 0; (20313), 3, 1, 0; (20504), 3, 1, 0; (21475), 3, 1, 0; (21678), 3, 1, 0; (22261), 3, 1, 0; (23021), 3, 1, 0; (23172), 3, 1, 0; (23190), 3, 1, 0; (23439), 3, 1, 0; (23818), 3, 1, 0; (24266), 3, 1, 0; (24896), 3, 1, 0; (25252), 3, 1, 0; (25321), 3, 1, 0; (25457), 3, 1, 0; 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(159481), 3, 1, 0; (160104), 3, 1, 0; (160387), 3, 1, 0; (161314), 3, 1, 0; (161354), 3, 1, 0; (161369), 3, 1, 0; (161431), 3, 1, 0; (161568), 3, 1, 0; (161955), 3, 1, 0; (163303), 3, 1, 0; (163327), 3, 1, 0; (163376), 3, 1, 0; (163459), 2, 1, 0; (163822), 3, 1, 0; (163845), 3, 1, 0; (164172), 3, 1, 0; (164361), 3, 1, 0; (164497), 3, 1, 0; (164586), 3, 1, 0; (165088), 3, 1, 0; (165123), 3, 1, 0; (165695), 3, 1, 0; (165762), 3, 1, 0; (166380), 3, 1, 0; (166547), 3, 1, 0; (166856), 3, 1, 0; (166879), 3, 1, 0; (167299), 3, 1, 0; (168100), 3, 1, 0; (169182), 3, 1, 0; (169289), 3, 1, 0; (169382), 3, 1, 0; (170348), 3, 1, 0; (171669), 3, 1, 0; (172059), 3, 1, 0; (172377), 3, 1, 0; (173493), 3, 1, 0; (174194), 3, 1, 0; (178249), 3, 1, 0; (179747), 3, 1, 0; (190327), 3, 1, 0; (190430), 3, 1, 0; (190509), 3, 1, 0; (190808), 3, 1, 0; (191033), 3, 1, 0; (191046), 3, 1, 0; (191058), 3, 1, 0; (191594), 3, 1, 0; (191598), 3, 1, 0; (191640), 3, 1, 0; (191947), 3, 1, 0; (191953), 3, 1, 0; (192824), 3, 1, 0; (193225), 3, 1, 0; (193343), 3, 1, 0; (193512), 3, 1, 0; (193752), 3, 1, 0; (193773), 3, 1, 0; (193774), 3, 1, 0; (193920), 3, 1, 0; (194068), 3, 1, 0; (194222), 3, 1, 0; (194233), 3, 1, 0; (194269), 3, 1, 0; (194854), 3, 1, 0; (195011), 3, 1, 0; (195942), 3, 1, 0; (196519), 3, 1, 0; (197345), 3, 1, 0; (197347), 3, 1, 0; (197854), 3, 1, 0; (197873), 3, 1, 0; (197944), 2, 1, 0; (198055), 3, 1, 0; (198245), 3, 1, 0; (198421), 3, 1, 0; (198850), 3, 1, 0; (198980), 3, 1, 0; (199095), 3, 1, 0; (199877), 3, 1, 0; (199881), 3, 1, 0; (200377), 3, 1, 0; (200789), 3, 1, 0; (201529), 3, 1, 0; (201617), 3, 1, 0; (201630), 3, 1, 0; (201670), 3, 1, 0; (201985), 3, 1, 0; (202192), 3, 1, 0; (202199), 3, 1, 0; (202230), 3, 1, 0; (202360), 3, 1, 0; (202597), 3, 1, 0; (202601), 3, 1, 0; (203143), 3, 1, 0; (203980), 3, 1, 0; (204164), 3, 1, 0; (204370), 3, 1, 0; (204394), 3, 1, 0; (204858), 2, 1, 0; (205449), 3, 1, 0; (205460), 3, 1, 0; (209960), 3, 1, 0; (210076), 3, 1, 0; (218815), 3, 1, 0; (220906), 3, 1, 0; (225290), 3, 1, 0; (225628), 3, 1, 0; (225858), 3, 1, 0; (227263), 3, 1, 0; (229067), 3, 1, 0; (229675), 3, 1, 0; (229934), 3, 1, 0; (230016), 3, 1, 0; (230322), 3, 1, 0; (230409), 3, 1, 0; (230615), 3, 1, 0; (231068), 3, 1, 0; (231256), 3, 1, 0; (231366), 3, 1, 0; (231678), 3, 1, 0; (231999), 3, 1, 0; (232472), 3, 1, 0; (232610), 3, 1, 0; (232646), 3, 1, 0; (232886), 3, 1, 0; (233386), 3, 1, 0; (233602), 3, 1, 0; (234942), 3, 1, 0; (234946), 3, 1, 0; (234954), 3, 1, 0; (235307), 3, 1, 0; (235464), 3, 1, 0; (237625), 3, 1, 0; (238027), 3, 1, 0; (238799), 3, 1, 0; (239160), 3, 1, 0; (239370), 3, 1, 0; (240627), 3, 1, 0; (241052), 3, 1, 0; (241481), 3, 1, 0; (241803), 3, 1, 0; (242130), 3, 1, 0; (243096), 3, 1, 0; (243103), 3, 1, 0; (243841), 3, 1, 0; (244046), 3, 1, 0; (244442), 3, 1, 0; (244493), 3, 1, 0; (244836), 3, 1, 0; (245349), 3, 1, 0; (245930), 3, 1, 0; (246396), 3, 1, 0; (247485), 3, 1, 0; (248164), 3, 1, 0; (248204), 3, 1, 0; (248224), 3, 1, 0; (248645), 3, 1, 0; (248667), 3, 1, 0; (249344), 3, 1, 0; (264704), 3, 1, 0; (269909), 3, 1, 0; (270376), 3, 1, 0; (273711), 3, 1, 0; (274045), 3, 1, 0; (274802), 3, 1, 0; (275852), 3, 1, 0; (276074), 3, 1, 0; (276616), 3, 1, 0; (276785), 3, 1, 0; (277138), 3, 1, 0; (277477), 3, 1, 0; (279750), 3, 1, 0; (279838), 3, 1, 0; (279872), 3, 1, 0; (279950), 3, 1, 0; (280034), 3, 1, 0; (280043), 3, 1, 0; (280044), 3, 1, 0; (280045), 3, 1, 0; (280065), 3, 1, 0; (280104), 3, 1, 0; (280120), 3, 1, 0; (280127), 3, 1, 0; (280300), 3, 1, 0; (280351), 3, 1, 0; (280485), 3, 1, 0; (280537), 3, 1, 0; (280638), 3, 1, 0; (280712), 3, 1, 0; (280740), 3, 1, 0; (280831), 3, 1, 0; (280950), 3, 1, 0; (281005), 3, 1, 0; (281044), 3, 1, 0; (281103), 3, 1, 0; (281123), 3, 1, 0; (281161), 3, 1, 0; (281418), 3, 1, 0; (281569), 3, 1, 0; (281660), 3, 1, 0; (281818), 3, 1, 0; (281821), 3, 1, 0; [2694, 900, 12*, 2010/04/08–2011/06/01]

J14 La Corte

E. Ferra, 96 La Corte, E-35630 Antigua, Las Palmas de Gran Canaria, Canary Islands, Spain [deferrae@hotmail.com]

0.15-m f/5 Newtonian reflector + CCD

UCAC-3

(590), 4, 2, 6; [4, 1, 0*, 2011/06/11–2011/06/17]

J24 Observatorio Altamira

J. F. Hernandez, C/. Apartadero 4, Fasnía, S. C. de Tenerife, Spain

[altamira_obs@yahoo.es]

0.4-m f/10 Schmidt-Cassegrain + CCD

CMC

(1130), 3, 1, 0; (1706), 3, 1, 0; (4683), 3, 1, 0; (6777), 3, 1, 0; (10450), 3, 1, 0; (49845), 3, 1, 0; (61163), 3, 1, 0; (76414), 2, 1, 0; (79305), 3, 1, 0; (85861), 3, 1, 0; [29, 10, 0*, 2011/06/17–2011/07/08]

J26 The Spaceguard Centre, Knighton

J. R. Tate, Llanshay Lane, Knighton, Powys LD7 1LW, Wales

[mail@spaceguarduk.com]

0.35-m Schmidt-Cassegrain + CCD

USNO-A2.0

(183), 3, 1, 0; (273), 3, 1, 0; (1585), 3, 1, 0; (2048), 3, 1, 0; [12, 4, 0*, 2011/06/29–2011/07/09]

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

USNO-A2.0, CMC

(4683), 6, 1, 0; [6, 1, 0*, 2011/06/26]

J51 Observatorio Atlante, Tenerife

J. A. Henríquez, Juan Alvarez Delgado 11, 5, 2, E-38007 S. C. de Tenerife, Spain

[jahensan@gmail.com]

0.2-m $f/9$ Cassegrain + CCD

CMC

2011 EZ₇₈, 3, 1, 0; [3, 1, 0*, 2011/06/25]**J69 North Observatory, Clanfield**

D. Briggs, 124 Redbridge Grove, Havant, Portsmouth PO9 3DF, England

[dbriggs@kepler.demon.co.uk]

0.41-m $f/4.57$ reflector + CCD

CMC, USNO-B1.0, PPMXL

2003 BK₄₇, 3, 1, 0; 2008 LV₁₆, 5, 1, 0; 2011 EZ₇₈, 10, 2, 8; 2011 MD, 7, 1, 0; [25, 4, 0*, 2011/06/23–2011/07/11]**J75 OAM Observatory, La Sagra**

S. Sanchez, Observatori Astronomic de Mallorca, Camí de l'observatori s/n,

E-07144 Costitx, Balears, Spain [astroam@bitel.es]

Observers S. Sanchez, J. Nomen, R. Stoss, M. Hurtado, W. K. Y. Yeung,

J. A. Jaume

0.45-m $f/2.8$ reflector + CCD

UCAC-2

1999 FC₁₂, 3, 1, 0; 2002 PY₁₉₇, 3, 1, 0; 2002 QR₁₄₆, 9, 2, 16; 2006 UJ₃₀, 3, 1, 0; 2010 LY₆₅, 6, 1, 0; 2010 US₈₂, 3, 1, 0; 2010 UL₉₄, 3, 1, 0; 2011 BR₇₈, 3, 1, 0; 2011 BA₁₁₉, 3, 1, 0; 2011 ES₅₄, 3, 1, 0; 2011 FP₆₄, 3, 1, 0; 2011 KL₂₁, 3, 1, 0; (36116), 9, 1, 0; (36879), 5, 1, 0; (54377), 6, 1, 0; (57231), 12, 1, 0; (71749), 6, 1, 0; (98673), 3, 1, 0; (140707), 12, 1, 0; (216053), 6, 1, 0; (250688), 6, 1, 0; [110, 21, 0*, 2006/09/19–2011/02/23]**J84 South Observatory, Clanfield**

D. Briggs, 124 Redbridge Grove, Havant, Portsmouth PO9 3DF, England

[dbriggs@kepler.demon.co.uk]

0.61-m $f/4.75$ reflector + CCD

USNO-B1.0

2011 MD, 6, 1, 0; [6, 1, 0*, 2011/06/26]

J87 La Cañada

J. Lacruz, Ramon Gomez de la Serna 83 7F, E-28035 Madrid, Spain

[juan@lacañada.es]

0.40-m Ritchey-Chrétien + CCD

UCAC-3, USNO-B1.0

2011 MQ₁, 3, 1, 0; 2011 MS₁, 3, 1, 0; 2011 MY₂, 3, 1, 0; (26727), 3, 1, 0; [12, 4, 0*, 2010/09/11–2011/06/27]**J93 Mount Tuffley Observatory, Gloucester**

J. Fletcher, 54 Windsor Drive, Tuffley, Gloucester GL4 0QT, England

[jfnto@blueyonder.co.uk]

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

UCAC-3

(1036), 3, 1, 0; (3103), 3, 1, 0; (3288), 3, 1, 0; (3988), 3, 1, 0; [12, 4, 0*, 2011/06/26–2011/06/27]

J95 Great Shefford

P. Birtwhistle, Phlox Cottage, Wantage Road, Great Shefford, Berkshire

RG17 7DA, England [peter@birtwhi.demon.co.uk]

0.40-m $f/6.0$ Schmidt-Cassegrain + CCD

UCAC-3

2005 XN₄, 6, 2, 3; 2011 KP₃₆, 2, 1, 0; 2011 LF₁₆, 5, 2, 1; 2011 LT₁₇, 4, 1, 0; 2011 LA₁₉, 3, 1, 0; 2011 LC₁₉, 2, 1, 0; 2011 LJ₂₀, 5, 2, 2; 2011 LT₂₀, 6, 2, 2; 2011 MC, 6, 2, 1; 2011 MD, 32, 8, 10; 2011 ME, 3, 1, 0; 2011 MF, 2, 1, 0; 2011 MJ, 5, 2, 1; 2011 MK, 4, 1, 0; 2011 MP, 3, 1, 0; 2011 MU, 3, 1, 0; 2011 MV, 2, 1, 0; 2011 MW, 2, 1, 0; 2011 MX, 2, 1, 0; 2011 MU₁, 3, 1, 0; 2011 MQ₃, 3, 1, 0; 2011 MR₃, 3, 1, 0; 2011 MS₃, 3, 1, 0; 2011 MT₃, 3, 1, 0; 2011 MM₄, 2, 1, 0; 2011 MD₅, 6, 2, 1; 2011 ME₅, 3, 1, 0; 2011 ND, 3, 1, 0; 2011 NY, 7, 2, 1; (20379), 3, 1, 0; (243014), 3, 1, 0; [139, 31, 0*, 2011/06/09–2011/07/10]**ORBITAL ELEMENTS**

Orbital elements have been computed and identifications found by the following contributors:

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- G. V. Williams, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [gwilliams@cfa.harvard.edu]
- MPCADO (entirely automated processing on MPC computer ADONIS)
 MPCALB (entirely automated processing on MPC computer ALBERT)
 MPCALI (entirely automated processing on MPC computer ALINDA)
 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/2002 J4 (NEAT)

Epoch 2003 Oct. 8.0 TT = JDT 2452920.5

T	2003 Oct. 3.15132 TT		MPC	
q	3.6337804	(2000.0)	P	Q
z	-0.0000055	ω 230.70575	+0.29570978	+0.66520098
	± 0.0000008	Ω 70.88122	-0.48563243	+0.72272891
e	1.0000199	i 46.52183	-0.82262802	-0.18753818

From 195 observations 2002 May 4–2006 Oct. 1, mean residual 0".61.

C/2005 B1 (Christensen)

Epoch 2006 Mar. 6.0 TT = JDT 2453800.5

<i>T</i>	MPC			
2006 Feb. 23.57657 TT		P	Q	
<i>q</i>	3.2049311	(2000.0)		
<i>z</i>	-0.0000866	ω 103.18370	+0.20809665	+0.94070052
	± 0.0000003	Ω 195.55603	-0.29248596	+0.32122552
<i>e</i>	1.0002775	<i>i</i> 92.55117	+0.93335296	-0.10907200

From 1384 observations 2004 Mar. 18–2007 Oct. 11, mean residual 0^{''}.52.

C/2005 L3 (McNaught)

Epoch 2008 Jan. 15.0 TT = JDT 2454480.5

<i>T</i>	MPC			
2008 Jan. 16.00597 TT		P	Q	
<i>q</i>	5.5932691	(2000.0)		
<i>z</i>	+0.0000161	ω 47.09695	-0.30837270	-0.72516361
	± 0.0000001	Ω 288.73911	-0.94495798	+0.30792620
<i>e</i>	0.9999100	<i>i</i> 139.44875	+0.10936494	+0.61588894

From 4833 observations 2004 July 16–2011 June 30, mean residual 0^{''}.52.

C/2006 S3 (LONEOS)

Epoch 2012 Apr. 23.0 TT = JDT 2456040.5

<i>T</i>	MPC			
2012 Apr. 16.34906 TT		P	Q	
<i>q</i>	5.1310049	(2000.0)		
<i>z</i>	-0.0006712	ω 140.13158	-0.21561139	-0.96491669
	± 0.0000004	Ω 38.36958	-0.94612970	+0.24439228
<i>e</i>	1.0034437	<i>i</i> 166.03269	-0.24155811	-0.09595936

From 2242 observations 2006 Aug. 29–2011 July 11, mean residual 0^{''}.52.

P/2006 T1 (Levy)

Epoch 2006 Sept. 22.0 TT = JDT 2454000.5

<i>T</i>	MPC			
2006 Oct. 7.42915 TT		P	Q	
<i>q</i>	0.9894733	(2000.0)		
<i>n</i>	0.18798349	ω 179.45137	-0.16134362	-0.93702662
<i>a</i>	3.0180256	Ω 279.80576	+0.90425996	-0.01463519
<i>e</i>	0.6721455	<i>i</i> 18.32154	+0.39532538	-0.34895117

P 5.24

From 259 observations 2006 Oct. 2–Nov. 24, mean residual 0^{''}.62.

C/2006 W3 (Christensen)

Epoch 2009 June 18.0 TT = JDT 2455000.5

<i>T</i>	MPC			
2009 July 6.65738 TT		P	Q	
<i>q</i>	3.1262057	(2000.0)		
<i>z</i>	-0.0000166	ω 133.51862	+0.67604869	-0.09047495
	± 0.0000000	Ω 113.57271	-0.64879515	-0.54356595
<i>e</i>	1.0000520	<i>i</i> 127.07375	+0.34931796	-0.83447609

From 5354 observations 2006 Oct. 29–2011 June 29, mean residual 0^{''}.50.

C/2007 M3 (LINEAR)

Epoch 2007 Sept. 17.0 TT = JDT 2454360.5

<i>T</i>	MPC			
2007 Sept. 4.59468 TT		P	Q	
<i>q</i>	3.4687535	(2000.0)		
<i>z</i>	+0.0057643	ω 125.73926	+0.07549955	-0.97522579
	± 0.0000015	Ω 41.62782	-0.98573033	-0.04153204
<i>e</i>	0.9800049	<i>i</i> 161.75930	-0.15045110	-0.21727803

From 597 observations 2006 Nov. 12–2008 July 1, mean residual 0^{''}.48.

C/2007 Q3 (Siding Spring)

Epoch 2009 Oct. 16.0 TT = JDT 2455120.5

<i>T</i>	MPC			
2009 Oct. 7.26490 TT		P	Q	
<i>q</i>	2.2516896	(2000.0)		
<i>z</i>	-0.0001151	ω 2.09038	-0.86793558	-0.17825920
	± 0.0000001	Ω 149.41281	+0.44145230	-0.70460913
<i>e</i>	1.0002592	<i>i</i> 65.65049	+0.22761304	+0.68684033

From 3235 observations 2007 Aug. 25–2011 July 5, mean residual 0^{''}.59.

P/2007 R1 (Larson)

Epoch 2007 Aug. 8.0 TT = JDT 2454320.5

<i>T</i>	MPC			
2007 Aug. 22.99054 TT		P	Q	
<i>q</i>	4.3518632	(2000.0)		
<i>n</i>	0.06667790	ω 175.04781	+0.99833137	+0.05760729
<i>a</i>	6.0230266	Ω 181.66539	-0.05656213	+0.96166539
<i>e</i>	0.2774624	<i>i</i> 7.87760	-0.01162719	+0.26810647

P 14.78

From 215 observations 2007 Sept. 4–2009 Feb. 16, mean residual 0^{''}.56.

C/2007 VO₅₃ (Spacewatch)

Epoch 2010 May 4.0 TT = JDT 2455320.5

<i>T</i>	MPC			
2010 Apr. 26.49885 TT		P	Q	
<i>q</i>	4.8426320	(2000.0)		
<i>z</i>	+0.0000555	ω 75.02988	+0.08637370	-0.49858244
	± 0.0000005	Ω 59.73683	-0.15559216	-0.86189116
<i>e</i>	0.9997310	<i>i</i> 86.99033	+0.98403794	-0.09251584

From 590 observations 2007 Oct. 20–2011 July 2, mean residual 0^{''}.52.

C/2008 FK₇₅ (Lemmon-Siding Spring)

Epoch 2010 Oct. 11.0 TT = JDT 2455480.5

<i>T</i>	MPC			
2010 Sept. 29.25823 TT		P	Q	
<i>q</i>	4.5108463	(2000.0)		
<i>z</i>	-0.0005612	ω 80.42068	+0.16378315	+0.82386082
	± 0.0000003	Ω 218.26846	-0.78064190	+0.44452931
<i>e</i>	1.0025313	<i>i</i> 61.17596	+0.60313622	+0.35163480

From 2543 observations 2008 Mar. 31–2011 July 9, mean residual 0^{''}.51.

C/2008 S3 (Boattini)

Epoch 2011 June 8.0 TT = JDT 2455720.5

<i>T</i>	MPC			
2011 June 7.40995 TT		P	Q	
<i>q</i>	8.0178352	(2000.0)		
<i>z</i>	-0.0001251	ω 39.96505	+0.94225762	+0.23005164
	± 0.0000008	Ω 54.94142	+0.17644097	-0.95869323
<i>e</i>	1.0010033	<i>i</i> 162.70404	+0.28463864	-0.16728278

From 826 observations 2006 Dec. 27–2011 July 1, mean residual 0^{''}.54.

C/2009 F2 (McNaught)

Epoch 2009 Nov. 25.0 TT = JDT 2455160.5

<i>T</i>	MPC			
2009 Nov. 14.27473 TT		P	Q	
<i>q</i>	5.8751800	(2000.0)		
<i>z</i>	+0.0028568	ω 336.35857	-0.87340886	-0.07073056
	± 0.0000019	Ω 214.05810	-0.17809586	-0.87446805
<i>e</i>	0.9832157	<i>i</i> 59.35572	-0.45325360	+0.47989876

From 297 observations 2009 Mar. 19–2011 July 2, mean residual 0^{''}.60.

C/2009 F4 (McNaught)

Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

<i>T</i>	2011 Dec. 31.90806 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0002853	ω 260.38570	+0.04752162	+0.61014565
	\pm 0.0000009	Ω 53.58433	+0.16285274	+0.77643097
<i>e</i>	1.0015564	<i>i</i> 79.34740	-0.98550529	+0.15772520

From 505 observations 2009 Mar. 19–2011 June 29, mean residual 0''.42.

C/2009 P1 (Garradd)

Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

<i>T</i>	2011 Dec. 23.67451 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0006871	ω 90.74764	-0.16661396	-0.82691044
	\pm 0.0000007	Ω 325.99759	-0.58719770	+0.52078775
<i>e</i>	1.0010654	<i>i</i> 106.17763	+0.79211025	+0.21213025

From 1161 observations 2009 Aug. 13–2011 July 12, mean residual 0''.39.

C/2009 P2 (Boattini)

Epoch 2010 Feb. 13.0 TT = JDT 2455240.5

<i>T</i>	2010 Feb. 10.86493 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0002833	ω 76.08813	+0.92776955	-0.27918869
	\pm 0.0000013	Ω 60.39209	-0.33994365	-0.90599145
<i>e</i>	1.0018538	<i>i</i> 163.45515	+0.15388951	-0.31817159

From 446 observations 2008 Oct. 1–2011 July 6, mean residual 0''.56.

C/2009 S3 (Lemmon)

Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

<i>T</i>	2011 Dec. 11.30657 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0002284	ω 129.76585	+0.72047303	+0.31823716
	\pm 0.0000049	Ω 225.13251	-0.09573949	+0.92562621
<i>e</i>	1.0014787	<i>i</i> 60.38466	+0.68684246	-0.20479559

From 83 observations 2009 Sept. 24–2011 July 9, mean residual 0''.56.

C/2009 UG₈₉ (Lemmon)

Epoch 2010 Dec. 30.0 TT = JDT 2455560.5

<i>T</i>	2010 Dec. 16.27004 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0020513	ω 60.65377	+0.02763305	-0.87612602
	\pm 0.0000006	Ω 321.00847	-0.94852687	+0.12897608
<i>e</i>	1.0080639	<i>i</i> 130.10046	+0.31548883	+0.46450874

From 857 observations 2009 Oct. 22–2011 July 12, mean residual 0''.54.

C/2009 Y1 (Catalina)

Epoch 2011 Feb. 8.0 TT = JDT 2455600.5

<i>T</i>	2011 Jan. 28.90128 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.0026445	ω 127.39123	+0.65143650	+0.68690248
	\pm 0.0000005	Ω 160.27728	-0.28549058	-0.17149737
<i>e</i>	0.9933345	<i>i</i> 107.31637	+0.70294069	-0.70622492

From 1114 observations 2009 Dec. 17–2011 July 10, mean residual 0''.44.

C/2010 A4 (Siding Spring)

Epoch 2010 Oct. 11.0 TT = JDT 2455480.5

<i>T</i>	2010 Oct. 8.76317 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.0035112	ω 271.69105	+0.05569431	+0.97190126
	\pm 0.0000019	Ω 346.68572	+0.49321769	-0.22594228
<i>e</i>	0.9903865	<i>i</i> 96.73026	-0.86812122	-0.06601539

From 119 observations 2010 Jan. 12–2011 July 7, mean residual 0''.60.

C/2010 B1 (Cardinal)

Epoch 2011 Feb. 8.0 TT = JDT 2455600.5

<i>T</i>	2011 Feb. 7.07773 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.0003293	ω 211.52500	+0.00060432	+0.24113732
	\pm 0.0000004	Ω 277.21358	+0.99184137	-0.12385962
<i>e</i>	0.9990314	<i>i</i> 101.97628	-0.12747678	-0.96255472

From 1957 observations 2010 Jan. 19–2011 Apr. 30, mean residual 0''.44.

C/2010 FB₈₇ (WISE-Garradd)

Epoch 2010 Nov. 20.0 TT = JDT 2455520.5

<i>T</i>	2010 Nov. 7.38626 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.00032928	ω 265.02233	-0.30182669	-0.02451601
	\pm 0.0000008	Ω 89.89886	+0.29855250	+0.94695663
<i>e</i>	0.9906396	<i>i</i> 107.62682	-0.90540988	+0.32042488

From 328 observations 2010 Mar. 28–2011 May 31, mean residual 0''.37.

C/2010 G2 (Hill)

Epoch 2011 Aug. 27.0 TT = JDT 2455800.5

<i>T</i>	2011 Sept. 2.05104 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.0103818	ω 137.42555	+0.14258949	+0.42752766
	\pm 0.0000009	Ω 246.78107	+0.41764827	+0.79168856
<i>e</i>	0.9794359	<i>i</i> 103.74536	+0.89735064	-0.43640500

From 1256 observations 2010 Apr. 10–2011 July 5, mean residual 0''.53.

C/2010 L3 (Catalina)

Epoch 2010 Nov. 20.0 TT = JDT 2455520.5

<i>T</i>	2010 Nov. 10.32350 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	+0.0000885	ω 121.76782	-0.29814455	-0.73874307
	\pm 0.0000024	Ω 38.27585	-0.76311831	-0.19591807
<i>e</i>	0.9991254	<i>i</i> 102.63079	+0.57337621	-0.64488355

From 100 observations 2010 June 15–2011 June 21, mean residual 0''.48.

C/2010 R1 (LINEAR)

Epoch 2012 June 2.0 TT = JDT 2456080.5

<i>T</i>	2012 May 18.91392 TT		MPC	
<i>q</i>		(2000.0)	P	Q
<i>z</i>	-0.0006633	ω 114.49929	-0.63359405	-0.76576342
	\pm 0.00000131	Ω 343.64980	-0.77177998	+0.63554142
<i>e</i>	1.0037287	<i>i</i> 156.93340	+0.05398374	+0.09845549

From 167 observations 2010 Sept. 4–2011 July 7, mean residual 0''.60.

C/2010 S1 (LINEAR)

Epoch 2013 May 28.0 TT = JDT 2456440.5

<i>T</i>	2013 May 20.32685 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	5.9000720	ω 118.61395	+0.53547587	-0.22395961
	-0.0003096	Ω 93.43039	-0.69559161	-0.66378597
	\pm 0.0000032	<i>i</i> 125.33584	+0.47897590	-0.71360373
<i>e</i>	1.0018267			

From 846 observations 2010 Sept. 21–2011 June 27, mean residual 0".37.

C/2010 U3 (Boattini)

Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

<i>T</i>	2019 Mar. 6.12928 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	8.4627027	ω 88.10026	-0.36225351	-0.74296625
	+0.0006924	Ω 43.06757	+0.07243766	-0.62445399
	\pm 0.0001936	<i>i</i> 55.50938	+0.92926056	-0.24095303
<i>e</i>	0.9941404			

From 100 observations 2010 Oct. 31–2011 July 9, mean residual 0".66.

C/2010 X1 (Elenin)

Epoch 2011 Aug. 27.0 TT = JDT 2455800.5

<i>T</i>	2011 Sept. 10.72310 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	0.4824584	ω 343.80558	+0.60235597	+0.79799631
	-0.0000596	Ω 323.22706	-0.72875280	+0.53994799
	\pm 0.0000018	<i>i</i> 1.83925	-0.32570945	+0.26769023
<i>e</i>	1.0000287			

From 2048 observations 2010 Dec. 10–2011 June 30, mean residual 0".51.

C/2011 A3 (Gibbs)

Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

<i>T</i>	2011 Dec. 16.07978 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	2.3447964	ω 141.16555	-0.01644602	+0.93259825
	+0.0009139	Ω 124.88951	-0.99145223	+0.03146679
	\pm 0.0000036	<i>i</i> 26.07498	-0.12942956	-0.35954185
<i>e</i>	0.9978571			

From 1271 observations 2011 Jan. 15–July 9, mean residual 0".43.

C/2011 C1 (McNaught)

Epoch 2011 Apr. 29.0 TT = JDT 2455680.5

<i>T</i>	2011 Apr. 18.00237 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	0.8833787	ω 84.47389	+0.11116931	+0.99184392
	+0.0029075	Ω 192.43825	-0.98724202	+0.10302203
	\pm 0.0000030	<i>i</i> 16.82565	-0.11399379	+0.07504738
<i>e</i>	0.9974316			

From 527 observations 2011 Feb. 10–July 10, mean residual 0".56.

C/2011 C3 (Gibbs)

Epoch 2011 Mar. 20.0 TT = JDT 2455640.5

<i>T</i>	2011 Apr. 7.52781 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	1.5169006	ω 206.80973	-0.72912827	+0.62858878
	+0.0030963	Ω 20.89019	-0.40753222	-0.08108639
	\pm 0.0000181	<i>i</i> 49.37640	-0.54980857	-0.77349928
<i>e</i>	0.9953033			

From 75 observations 2011 Feb. 12–May 15, mean residual 0".48.

C/2011 F1 (LINEAR)

Epoch 2013 Jan. 28.0 TT = JDT 2456320.5

<i>T</i>	2013 Jan. 8.04583 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	1.8191053	ω 192.55672	+0.03606624	+0.55370055
	-0.0000166	Ω 85.11396	-0.82942456	+0.48095369
	\pm 0.0000180	<i>i</i> 56.61258	-0.55745324	-0.67977882
<i>e</i>	1.0000302			

From 880 observations 2011 Mar. 17–July 9, mean residual 0".45.

C/2011 G1 (McNaught)

Epoch 2011 Oct. 6.0 TT = JDT 2455840.5

<i>T</i>	2011 Sept. 16.40334 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	2.1552005	ω 354.54492	-0.92538526	+0.35203659
	-0.0005373	Ω 152.58909	+0.35826979	+0.69145002
	\pm 0.0000518	<i>i</i> 162.23407	+0.12371288	+0.63084634
<i>e</i>	1.0011580			

From 102 observations 2011 Apr. 5–June 17, mean residual 0".48.

C/2011 J3 (LINEAR)

Epoch 2011 Feb. 8.0 TT = JDT 2455600.5

<i>T</i>	2011 Jan. 24.38676 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	1.4509220	ω 27.84199	+0.89423852	-0.29893820
<i>a</i>	0.01137880	Ω 21.51289	-0.03791776	-0.79218678
<i>e</i>	19.5766566	<i>i</i> 114.71228	+0.44598174	+0.53204892
<i>P</i>	0.9258851			
	86.62			

From 79 observations 2011 May 14–July 8, mean residual 0".64.

P/2011 JB₁₅ (Spacewatch-Boattini)

Epoch 2012 Feb. 3.0 TT = JDT 2455960.5

<i>T</i>	2012 Jan. 23.61745 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	5.0162975	ω 111.16447	-0.06605568	+0.98721035
<i>a</i>	0.04930885	Ω 153.73692	-0.99306453	-0.05086868
<i>e</i>	7.3652274	<i>i</i> 19.14147	-0.09725990	-0.15108975
<i>P</i>	0.3189216			
	19.99			

From 87 observations 2011 May 8–June 27, mean residual 0".51.

C/2011 K1 (Schwartz-Holvorcem)

Epoch 2011 Apr. 29.0 TT = JDT 2455680.5

<i>T</i>	2011 Apr. 21.85749 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	3.3749136	ω 167.09104	-0.20794098	-0.56916176
	-0.0002704	Ω 70.74107	-0.9553193	+0.29204890
	\pm 0.0005467	<i>i</i> 122.57857	-0.20909155	-0.76861065
<i>e</i>	1.0009126			

From 109 observations 2011 May 26–June 27, mean residual 0".49.

C/2011 L1 (McNaught)

Epoch 2010 Dec. 30.0 TT = JDT 2455560.5

<i>T</i>	2010 Dec. 18.33015 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	2.2427596	ω 294.48690	-0.48501776	-0.11200070
<i>a</i>	11.0463963	Ω 252.36455	+0.07187368	-0.99351475
<i>e</i>	0.7969691	<i>i</i> 65.51542	-0.87154573	-0.01960337
<i>P</i>	36.71			

From 115 observations 2011 June 2–July 8, mean residual 0^{''}.71.**C/2011 L2 (McNaught)**

Epoch 2011 Nov. 1.41940 TT

<i>T</i>	2011 Nov. 1.41940 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	257.10681	-0.03281996	-0.68513210
	Ω	131.34069	+0.07664502	+0.72420204
<i>e</i>	1.0	<i>i</i> 104.25459	-0.99651813	+0.07826499

From 17 observations 2011 June 2–29.

C/2011 L3 (McNaught)

Epoch 2011 Aug. 27.0 TT = JDT 2455800.5

<i>T</i>	2011 Aug. 10.50152 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>z</i>	-0.0000034	ω 27.72723	+0.56050188	-0.24963436
	\pm 0.0000623	Ω 307.75502	-0.81377462	+0.01088277
<i>e</i>	1.0000066	<i>i</i> 87.11374	+0.15365060	+0.96827902

From 228 observations 2011 June 3–July 12, mean residual 0^{''}.50.**C/2011 L4 (PANSTARRS)**

Epoch 2013 Mar. 11.05800 TT

<i>T</i>	2013 Mar. 11.05800 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	333.64735	+0.40791479	+0.10582087
	Ω	65.63820	+0.90880498	+0.04827150
<i>e</i>	1.0	<i>i</i> 84.56723	-0.08763003	+0.99321287

From 139 observations 2011 May 21–July 8.

C/2011 L6 (Boattini)

Epoch 2011 Jan. 22.87245 TT

<i>T</i>	2011 Jan. 22.87245 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	331.62644	-0.45896948	-0.88445222
	Ω	214.49857	-0.78445212	+0.35892066
<i>e</i>	1.0	<i>i</i> 171.44961	-0.41711137	+0.29819494

From 46 observations 2011 May 28–July 5.

C/2011 M1 (LINEAR)

Epoch 2011 Sept. 7.61713 TT

<i>T</i>	2011 Sept. 7.61713 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	119.45483	-0.23031087	-0.80743801
	Ω	324.71848	+0.15675880	+0.52007078
<i>e</i>	1.0	<i>i</i> 70.11009	+0.96040803	-0.27851436

From 73 observations 2011 June 22–July 3.

P/2011 N1

Epoch 2012 June 2.0 TT = JDT 2456080.5

<i>T</i>	2012 May 31.48437 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	2.8488736	ω 331.35629	+0.56833236	-0.59374099
<i>a</i>	6.3125199	Ω 77.63364	+0.82119524	+0.36611093
<i>e</i>	0.5486947	<i>i</i> 35.67260	+0.05134883	+0.71654338
<i>P</i>	15.86			

From 66 observations 2011 July 1–July 12, mean residual 0^{''}.52.**C/2011 N2 (McNaught)**

Epoch 2011 Oct. 22.02917 TT

<i>T</i>	2011 Oct. 22.02917 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	358.72768	+0.06787512	+0.83683318
	Ω	274.95882	-0.91048271	-0.17067708
<i>e</i>	1.0	<i>i</i> 33.04345	-0.40793896	+0.52017264

From 31 observations 2011 July 4–8.

C/2011 N3 (SOHO)

Epoch 2011 July 6.00 TT

<i>T</i>	2011 July 6.00 TT		MPC	
<i>q</i>	(2000.0)		P	Q
	ω	85.10	+0.17532	-0.98237
	Ω	6.41	-0.96064	-0.18514
<i>e</i>	1.0	<i>i</i> 144.41	+0.21547	-0.02611

From 102 observations 2011 July 4–5.

113P/Spitaler

Epoch 2008 Apr. 4.0 TT = JDT 2454560.5

<i>T</i>	2008 Mar. 23.41912 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	2.1284937	ω 49.85078	+0.43424840	-0.90044199
<i>a</i>	0.13909495	Ω 14.47341	+0.79284676	+0.36880842
<i>e</i>	3.6891684	<i>i</i> 5.77544	+0.42757729	+0.23061780
<i>P</i>	7.09			

From 345 observations 1993 Oct. 19–2009 Mar. 23, mean residual 0^{''}.68. Non-gravitational parameters $A_1 = +0.26 \pm 0.03$, $A_2 = -0.0012 \pm 0.0004$.**147P/Kushida-Muramatsu**

Epoch 2008 Sept. 11.0 TT = JDT 2454720.5

<i>T</i>	2008 Sept. 22.88709 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	2.7564397	ω 346.84700	+0.16294549	-0.98577293
<i>a</i>	0.13270550	Ω 93.76383	+0.90891951	+0.13372026
<i>e</i>	3.8066543	<i>i</i> 2.36849	+0.38381518	+0.10183626
<i>P</i>	7.43			

From 51 observations 2001 Dec. 14–2009 Feb. 28, mean residual 0^{''}.56.**Saturn IX (Phoebe)**

Epoch 2011 Aug. 27.0 TT = JDT 2455800.5

<i>M</i>	2011 Aug. 27.0 TT		MPC	
<i>q</i>	(2000.0)		P	Q
<i>n</i>	316.71777	ω 3.01169	-0.09758048	-0.98777159
<i>a</i>	0.65709429	Ω 267.38936	-0.91562852	+0.04122502
<i>e</i>	0.0863208	<i>i</i> 173.00855	-0.39000316	+0.15035884
<i>P</i>	547.87 d	<i>H</i> 6.6	<i>G</i> 0.15	

From 1897 observations 1898 Aug. 19–2011 June 26, mean residual 0^{''}.47.

SUMMARY OF NEW NUMBERINGS

The following summary of new numberings of minor planets lists for each object the number, principal provisional designation, date of discovery, observatory code of the discovery site and the names of the discoverers. A separate table lists orbital elements and absolute magnitudes (the slope parameter G being 0.15 in every case). Further details, including additional identifications and residuals, are given in the *Minor Planet Circulars Orbit Supplement*.

(282028) 1990 TV ₉	1990 10 10	033	Börngen, F., Schmadel, L. D.
(282029) 1993 OH ₃	1993 07 20	809	Elst, E. W.
(282030) 1994 XK ₂	1994 12 01	691	Spacewatch
(282031) 1995 ME ₆	1995 06 24	691	Spacewatch
(282032) 1995 OP ₄	1995 07 22	691	Spacewatch
(282033) 1995 OA ₁₇	1995 07 27	691	Spacewatch
(282034) 1995 UO	1995 10 19	587	Giuliani, V., Testa, A.
(282035) 1995 WG ₁₈	1995 11 17	691	Spacewatch
(282036) 1996 FQ ₁₃	1996 03 18	691	Spacewatch
(282037) 1998 QD ₄₉	1998 08 17	704	LINEAR
(282038) 1998 QO ₇₉	1998 08 24	704	LINEAR
(282039) 1998 QJ ₈₉	1998 08 24	704	LINEAR
(282040) 1998 QJ ₉₄	1998 08 17	704	LINEAR
(282041) 1998 RT ₅₄	1998 09 14	704	LINEAR
(282042) 1998 SP ₂	1998 09 18	704	LINEAR
(282043) 1998 ST ₁₀₆	1998 09 26	704	LINEAR
(282044) 1998 SF ₁₀₇	1998 09 26	704	LINEAR
(282045) 1998 VL ₅₅	1998 11 10	910	ODAS
(282046) 1998 XY ₆₅	1998 12 14	704	LINEAR
(282047) 1999 FC ₁₂	1999 03 18	691	Spacewatch
(282048) 1999 JY ₁₁₀	1999 05 13	704	LINEAR
(282049) 1999 RE ₆₆	1999 09 07	704	LINEAR
(282050) 1999 RC ₉₁	1999 09 07	704	LINEAR
(282051) 1999 RF ₂₄₀	1999 09 11	699	LONEOS
(282052) 1999 SO ₂	1999 09 22	704	LINEAR
(282053) 1999 TO ₁₈	1999 10 14	327	Beijing Schmidt CCD Asteroid Program
(282054) 1999 TS ₁₂₉	1999 10 06	704	LINEAR
(282055) 1999 TT ₁₄₈	1999 10 07	704	LINEAR
(282056) 1999 TD ₁₆₈	1999 10 10	704	LINEAR
(282057) 1999 TH ₁₉₃	1999 10 12	704	LINEAR
(282058) 1999 TO ₂₄₄	1999 10 07	703	CSS
(282059) 1999 TE ₂₅₅	1999 10 09	691	Spacewatch
(282060) 1999 TT ₂₆₅	1999 10 03	704	LINEAR
(282061) 1999 TL ₂₇₀	1999 10 03	704	LINEAR
(282062) 1999 UM ₁₂	1999 10 31	691	Spacewatch
(282063) 1999 VJ ₄₄	1999 11 03	703	CSS
(282064) 1999 VT ₅₀	1999 11 03	704	LINEAR
(282065) 1999 VT ₁₀₉	1999 11 09	704	LINEAR
(282066) 1999 WE ₁₇	1999 11 30	691	Spacewatch
(282067) 1999 XC ₉	1999 12 05	704	LINEAR
(282068) 1999 XH ₁₇	1999 12 07	704	LINEAR
(282069) 1999 XN ₂₄	1999 12 06	704	LINEAR
(282070) 1999 XB ₈₀	1999 12 07	704	LINEAR
(282071) 1999 XE ₁₅₅	1999 12 08	704	LINEAR
(282072) 1999 XT ₂₃₉	1999 12 07	703	CSS
(282073) 1999 XN ₂₅₉	1999 12 05	691	Spacewatch
(282074) 2000 AP ₂₆	2000 01 03	704	LINEAR
(282075) 2000 CZ ₇₁	2000 02 07	691	Spacewatch
(282076) 2000 CC ₇₃	2000 02 07	691	Spacewatch
(282077) 2000 ER ₁₄₂	2000 03 03	704	LINEAR
(282078) 2000 GP ₅₁	2000 04 05	704	LINEAR
(282079) 2000 HS ₃₃	2000 04 24	699	LONEOS
(282080) 2000 LU ₂₉	2000 06 05	691	Spacewatch
(282081) 2000 NG	2000 07 01	684	Comba, P. G.
(282082) 2000 PE ₆	2000 08 05	608	NEAT
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(282085) 2000 QD ₂₄	2000 08 25	704	LINEAR
(282086) 2000 QS ₃₉	2000 08 24	704	LINEAR
(282087) 2000 QW ₅₉	2000 08 26	704	LINEAR
(282088) 2000 QU ₈₄	2000 08 25	704	LINEAR
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(282094) 2000 RN ₉₀	2000 09 03	704	LINEAR
(282095) 2000 SP ₂₀	2000 09 23	704	LINEAR
(282096) 2000 SG ₂₆	2000 09 23	704	LINEAR
(282097) 2000 ST ₆₃	2000 09 24	704	LINEAR
(282098) 2000 SN ₇₈	2000 09 24	704	LINEAR
(282099) 2000 SH ₉₆	2000 09 23	704	LINEAR
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(282101) 2000 SE ₂₂₅	2000 09 27	704	LINEAR
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(282103) 2000 TV ₁₇	2000 10 01	704	LINEAR
(282104) 2000 TN ₆₀	2000 10 02	699	LONEOS
(282105) 2000 UN ₉₅	2000 10 25	704	LINEAR
(282106) 2000 UE ₉₇	2000 10 25	704	LINEAR
(282107) 2000 VW ₆	2000 11 01	704	LINEAR
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(282115) 2000 YS ₉₇	2000 12 30	704	LINEAR
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(282119) 2001 BN ₅₇	2001 01 20	608	NEAT
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(282121) 2001 DW ₆	2001 02 16	106	Črni Vrh
(282122) 2001 DD ₈	2001 02 16	691	Spacewatch
(282123) 2001 DU ₃₉	2001 02 19	704	LINEAR

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(282126)	2001 MV ₁	2001 06 18	699	LONEOS	(282178)	2001 TJ ₂₅	2001 10 14	704	LINEAR
(282127)	2001 MD ₁₈	2001 06 20	608	NEAT	(282179)	2001 TK ₄₆	2001 10 15	704	LINEAR
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(282129)	2001 NG ₁₇	2001 07 14	644	NEAT	(282181)	2001 TN ₇₆	2001 10 13	704	LINEAR
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(282135)	2001 QJ ₁₃₂	2001 08 20	704	LINEAR	(282187)	2001 TZ ₁₈₀	2001 10 14	704	LINEAR
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(282144)	2001 QH ₃₃₀	2001 08 25	699	LONEOS	(282196)	2001 UV ₂₉	2001 10 16	704	LINEAR
(282145)	2001 QJ ₃₃₃	2001 08 19	704	LINEAR	(282197)	2001 UE ₅₁	2001 10 17	704	LINEAR
(282146)	2001 RJ ₃	2001 09 08	699	LONEOS	(282198)	2001 UM ₁₆₆	2001 10 23	691	Spacewatch
(282147)	2001 RV ₃₉	2001 09 10	704	LINEAR	(282199)	2001 UA ₁₈₄	2001 10 16	704	LINEAR
(282148)	2001 RC ₅₄	2001 09 12	704	LINEAR	(282200)	2001 UX ₁₈₈	2001 10 17	644	NEAT
(282149)	2001 RN ₅₈	2001 09 12	704	LINEAR	(282201)	2001 UE ₂₁₈	2001 10 25	291	Spacewatch
(282150)	2001 RE ₇₂	2001 09 10	704	LINEAR	(282202)	2001 VX ₂₀	2001 11 09	704	LINEAR
(282151)	2001 RF ₈₂	2001 09 11	699	LONEOS	(282203)	2001 VG ₅₁	2001 11 10	704	LINEAR
(282152)	2001 RF ₁₁₅	2001 09 12	704	LINEAR	(282204)	2001 VC ₅₃	2001 11 10	704	LINEAR
(282153)	2001 SF ₅	2001 09 16	704	LINEAR	(282205)	2001 VG ₅₄	2001 11 10	704	LINEAR
(282154)	2001 SU ₁₂	2001 09 16	704	LINEAR	(282206)	2001 VN ₆₁	2001 11 10	704	LINEAR
(282155)	2001 SL ₁₇	2001 09 16	704	LINEAR	(282207)	2001 VS ₇₆	2001 11 12	704	LINEAR
(282156)	2001 SS ₄₉	2001 09 16	704	LINEAR	(282208)	2001 VY ₉₅	2001 11 15	704	LINEAR
(282157)	2001 SS ₉₄	2001 09 20	704	LINEAR	(282209)	2001 VJ ₁₀₉	2001 11 12	704	LINEAR
(282158)	2001 SY ₁₀₁	2001 09 20	704	LINEAR	(282210)	2001 WS ₁₇	2001 11 17	704	LINEAR
(282159)	2001 SV ₁₁₀	2001 09 20	704	LINEAR	(282211)	2001 WX ₅₉	2001 11 19	704	LINEAR
(282160)	2001 SG ₁₁₂	2001 09 19	704	LINEAR	(282212)	2001 XG ₂₆	2001 12 10	704	LINEAR
(282161)	2001 SO ₁₁₂	2001 09 20	704	LINEAR	(282213)	2001 XT ₇₃	2001 12 11	704	LINEAR
(282162)	2001 SC ₁₆₇	2001 09 19	704	LINEAR	(282214)	2001 XG ₇₈	2001 12 11	704	LINEAR
(282163)	2001 SK ₂₀₇	2001 09 19	704	LINEAR	(282215)	2001 XY ₇₈	2001 12 11	704	LINEAR
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(282165)	2001 SF ₂₂₇	2001 09 19	704	LINEAR	(282217)	2001 XE ₁₁₂	2001 12 11	704	LINEAR
(282166)	2001 SU ₂₂₉	2001 09 19	704	LINEAR	(282218)	2001 XS ₁₂₆	2001 12 14	704	LINEAR
(282167)	2001 ST ₂₇₅	2001 09 21	291	Spacewatch	(282219)	2001 XN ₁₃₀	2001 12 14	704	LINEAR
(282168)	2001 SJ ₂₈₀	2001 09 21	699	LONEOS	(282220)	2001 XT ₂₁₈	2001 12 15	704	LINEAR
(282169)	2001 SV ₃₁₇	2001 09 19	704	LINEAR	(282221)	2001 XE ₂₆₂	2001 12 12	644	NEAT
(282170)	2001 SB ₃₂₃	2001 09 25	704	LINEAR	(282222)	2001 YO ₁	2001 12 18	704	LINEAR
(282171)	2001 ST ₃₄₅	2001 09 23	608	NEAT	(282223)	2001 YK ₇₈	2001 12 18	704	LINEAR
(282172)	2001 SW ₃₅₃	2001 09 26	704	LINEAR	(282224)	2001 YK ₁₅₅	2001 12 20	644	NEAT
(282173)	2001 SX ₃₅₃	2001 09 28	704	LINEAR	(282225)	2001 YB ₁₆₂	2001 12 19	209	Asiago-DLR Asteroid Survey
(282174)	2001 TP ₇	2001 10 11	333	Yeung, W. K. Y.	(282226)	2002 AU ₁₇	2002 01 09	704	LINEAR
(282175)	2001 TC ₁₃	2001 10 13	704	LINEAR	(282227)	2002 AS ₂₀	2002 01 06	608	NEAT

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(282229) 2002 AZ ₆₅	2002 01 12	704	LINEAR	(282281) 2002 PF ₁₆	2002 08 06	644	NEAT
(282230) 2002 AM ₁₄₃	2002 01 13	704	LINEAR	(282282) 2002 PK ₃₈	2002 08 06	644	NEAT
(282231) 2002 BS ₂₄	2002 01 23	704	LINEAR	(282283) 2002 PJ ₄₁	2002 08 04	704	LINEAR
(282232) 2002 CC ₃₄	2002 02 06	704	LINEAR	(282284) 2002 PW ₆₃	2002 08 04	644	NEAT
(282233) 2002 CA ₁₂₉	2002 02 07	704	LINEAR	(282285) 2002 PS ₆₉	2002 08 11	704	LINEAR
(282234) 2002 CY ₁₈₈	2002 02 10	704	LINEAR	(282286) 2002 PM ₈₃	2002 08 10	704	LINEAR
(282235) 2002 CF ₂₁₀	2002 02 10	704	LINEAR	(282287) 2002 PX ₈₉	2002 08 11	704	LINEAR
(282236) 2002 CJ ₂₂₃	2002 02 11	704	LINEAR	(282288) 2002 PS ₁₀₉	2002 08 13	704	LINEAR
(282237) 2002 CR ₂₇₉	2002 02 07	691	Spacewatch	(282289) 2002 PV ₁₂₃	2002 08 13	699	LONEOS
(282238) 2002 CN ₂₈₁	2002 02 08	291	Spacewatch	(282290) 2002 PU ₁₂₈	2002 08 14	704	LINEAR
(282239) 2002 CP ₃₀₄	2002 02 15	704	LINEAR	(282291) 2002 PF ₁₃₁	2002 08 07	644	NEAT
(282240) 2002 CW ₃₀₉	2002 02 06	644	NEAT	(282292) 2002 PK ₁₇₀	2002 08 15	644	NEAT
(282241) 2002 CE ₃₁₄	2002 02 06	644	NEAT	(282293) 2002 QP	2002 08 16	704	LINEAR
(282242) 2002 DM ₈	2002 02 19	704	LINEAR	(282294) 2002 QN ₅	2002 08 16	644	NEAT
(282243) 2002 ES ₇₉	2002 03 11	608	NEAT	(282295) 2002 QB ₁₄	2002 08 26	644	NEAT
(282244) 2002 EZ ₁₆₀	2002 03 12	645	Sloan Digital Sky Survey	(282296) 2002 QF ₃₈	2002 08 30	291	Spacewatch
(282245) 2002 GJ ₆	2002 04 13	644	NEAT	(282297) 2002 QW ₇₉	2002 08 28	644	NEAT
(282246) 2002 GE ₁₁	2002 04 12	333	Yeung, W. K. Y.	(282298) 2002 QR ₈₂	2002 08 16	644	NEAT
(282247) 2002 GO ₄₉	2002 04 05	644	NEAT	(282299) 2002 QA ₁₁₉	2002 08 18	644	NEAT
(282248) 2002 GD ₆₁	2002 04 08	644	NEAT	(282300) 2002 QT ₁₂₇	2002 08 29	644	NEAT
(282249) 2002 GA ₆₉	2002 04 08	644	NEAT	(282301) 2002 RT ₄	2002 09 03	644	NEAT
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(282251) 2002 GH ₁₆₀	2002 04 15	644	NEAT	(282303) 2002 RN ₂₅₅	2002 09 03	644	NEAT
(282252) 2002 GJ ₁₈₃	2002 04 02	691	Spacewatch	(282304) 2002 SL ₄₆	2002 09 29	608	NEAT
(282253) 2002 GM ₁₈₃	2002 04 08	644	NEAT	(282305) 2002 SQ ₅₁	2002 09 17	644	NEAT
(282254) 2002 HP ₁₂	2002 04 21	644	NEAT	(282306) 2002 TC ₆	2002 10 01	704	LINEAR
(282255) 2002 JX ₄₉	2002 05 09	704	LINEAR	(282307) 2002 TX ₁₂	2002 10 01	699	LONEOS
(282256) 2002 JH ₆₇	2002 05 10	704	LINEAR	(282308) 2002 TH ₂₆	2002 10 02	704	LINEAR
(282257) 2002 JA ₇₅	2002 05 09	704	LINEAR	(282309) 2002 TY ₇₁	2002 10 03	644	NEAT
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(282260) 2002 JT ₁₁₆	2002 05 04	644	NEAT	(282312) 2002 TP ₉₅	2002 10 03	644	NEAT
(282261) 2002 JV ₁₁₆	2002 05 04	644	NEAT	(282313) 2002 TO ₁₁₂	2002 10 03	644	NEAT
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(282263) 2002 JJ ₁₄₅	2002 05 14	704	LINEAR	(282315) 2002 TD ₁₃₂	2002 10 04	704	LINEAR
(282264) 2002 JT ₁₄₉	2002 05 10	644	NEAT	(282316) 2002 TG ₁₃₆	2002 10 04	699	LONEOS
(282265) 2002 KP ₁₄	2002 05 30	644	NEAT	(282317) 2002 TT ₁₃₈	2002 10 04	699	LONEOS
(282266) 2002 LS ₁₈	2002 06 06	704	LINEAR	(282318) 2002 TS ₁₄₆	2002 10 04	704	LINEAR
(282267) 2002 LY ₆₁	2002 06 12	644	NEAT	(282319) 2002 TS ₁₅₉	2002 10 05	644	NEAT
(282268) 2002 NB ₄	2002 07 01	644	NEAT	(282320) 2002 TW ₁₇₁	2002 10 04	644	NEAT
(282269) 2002 NQ ₁₇	2002 07 13	608	NEAT	(282321) 2002 TB ₁₉₂	2002 10 05	699	LONEOS
(282270) 2002 NP ₂₅	2002 07 09	704	LINEAR	(282322) 2002 TG ₁₉₃	2002 10 03	704	LINEAR
(282271) 2002 NL ₆₆	2002 07 09	644	NEAT	(282323) 2002 TN ₂₁₈	2002 10 05	704	LINEAR
(282272) 2002 NT ₇₅	2003 10 21	644	Spacewatch	(282324) 2002 TB ₂₃₁	2002 10 08	644	NEAT
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(282274) 2002 OB ₆	2002 07 20	644	NEAT	(282326) 2002 TW ₃₁₃	2002 10 04	645	Sloan Digital Sky Survey
(282275) 2002 OM ₁₂	2002 07 25	644	NEAT	(282327) 2002 TB ₃₁₄	2002 10 04	645	Sloan Digital Sky Survey
(282276) 2002 OQ ₁₄	2002 07 18	704	LINEAR	(282328) 2002 TD ₃₁₅	2002 10 04	645	Sloan Digital Sky Survey
(282277) 2002 OR ₁₅	2002 07 18	704	LINEAR	(282329) 2002 TP ₃₁₅	2002 10 04	645	Sloan Digital Sky Survey
(282278) 2002 OB ₁₆	2002 07 18	704	LINEAR	(282330) 2002 TG ₃₈₄	2002 10 15	644	NEAT
(282279) 2002 OH ₁₈	2002 07 18	704	LINEAR	(282331) 2002 UK ₃₅	2002 10 31	644	NEAT

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(282334) 2002 UN ₅₉	2002 10 29	645	Sloan Digital Sky Survey	(282386) 2003 SN ₃₅	2003 09 18	644	NEAT
(282335) 2002 UV ₇₀	2002 10 30	608	NEAT	(282387) 2003 SC ₃₈	2003 09 16	644	NEAT
(282336) 2002 VT	2002 11 01	644	NEAT	(282388) 2003 SM ₈₁	2003 09 19	608	NEAT
(282337) 2002 VC ₃	2002 11 01	644	NEAT	(282389) 2003 SA ₉₈	2003 09 19	644	NEAT
(282338) 2002 VQ ₁₁	2002 11 01	644	NEAT	(282390) 2003 SQ ₁₁₈	2003 09 16	291	Spacewatch
(282339) 2002 VW ₉₃	2002 11 12	704	LINEAR	(282391) 2003 SK ₁₃₁	2003 09 19	691	Spacewatch
(282340) 2002 XM ₂₁	2002 12 02	704	LINEAR	(282392) 2003 SX ₁₄₅	2003 09 18	644	NEAT
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(282342) 2002 XA ₃₃	2002 12 06	704	LINEAR	(282394) 2003 ST ₁₉₆	2003 09 20	644	NEAT
(282343) 2002 XB ₄₇	2002 12 08	608	NEAT	(282395) 2003 SY ₂₁₄	2003 09 27	704	LINEAR
(282344) 2002 XN ₁₁₇	2002 12 07	644	NEAT	(282396) 2003 SA ₂₂₂	2003 09 27	704	LINEAR
(282345) 2002 YE ₅	2002 12 28	704	LINEAR	(282397) 2003 SU ₂₅₇	2003 09 28	704	LINEAR
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(282347) 2003 AZ ₂₂	2003 01 07	704	LINEAR	(282399) 2003 SV ₂₉₄	2003 09 28	704	LINEAR
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(282349) 2003 BA ₅₆	2003 01 28	291	Spacewatch	(282401) 2003 SF ₃₀₅	2003 09 17	644	NEAT
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(282352) 2003 FN ₇₅	2003 03 27	644	NEAT	(282404) 2003 SH ₃₃₆	2003 09 26	645	Sloan Digital Sky Survey
(282353) 2003 FS ₉₁	2003 03 29	699	LONEOS	(282405) 2003 TW ₁₃	2003 10 05	704	LINEAR
(282354) 2003 FZ ₁₀₇	2003 03 31	699	LONEOS	(282406) 2003 TR ₂₁	2003 10 01	699	LONEOS
(282355) 2003 FC ₁₂₄	2003 03 30	695	Buie, M. W.	(282407) 2003 TC ₅₆	2003 10 05	691	Spacewatch
(282356) 2003 GE ₁	2003 04 01	704	LINEAR	(282408) 2003 UW ₈	2003 10 18	049	Uppsala-DLR Asteroid Survey
(282357) 2003 HL ₁	2003 04 22	413	McNaught, R. H.	(282409) 2003 UL ₁₁	2003 10 20	704	LINEAR
(282358) 2003 HK ₅	2003 04 24	691	Spacewatch	(282410) 2003 UX ₁₄	2003 10 16	691	Spacewatch
(282359) 2003 HG ₁₆	2003 04 25	599	CINEOS	(282411) 2003 UJ ₁₇	2003 10 17	691	Spacewatch
(282360) 2003 HR ₂₂	2003 04 25	704	LINEAR	(282412) 2003 UF ₆₂	2003 10 16	699	LONEOS
(282361) 2003 KD ₁₉	2003 05 29	691	Spacewatch	(282413) 2003 UQ ₁₄₄	2003 10 18	699	LONEOS
(282362) 2003 LS ₂	2003 06 03	699	LONEOS	(282414) 2003 UQ ₁₇₉	2003 10 21	704	LINEAR
(282363) 2003 MD ₂	2003 06 22	699	LONEOS	(282415) 2003 UK ₂₀₀	2003 10 21	704	LINEAR
(282364) 2003 NR ₂	2003 07 02	704	LINEAR	(282416) 2003 UX ₂₀₂	2003 10 21	644	NEAT
(282365) 2003 NU ₁₁	2003 07 03	691	Spacewatch	(282417) 2003 UA ₂₀₅	2003 10 22	704	LINEAR
(282366) 2003 OO ₁₀	2003 07 27	428	Broughton, J.	(282418) 2003 UF ₂₁₃	2003 10 23	608	NEAT
(282367) 2003 OD ₁₁	2003 07 21	644	NEAT	(282419) 2003 UX ₂₂₃	2003 10 22	704	LINEAR
(282368) 2003 OA ₁₃	2003 07 25	704	LINEAR	(282420) 2003 UB ₂₅₁	2003 10 25	704	LINEAR
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(283066) 2008 RC ₄₁	2008 09 02	691	Spacewatch	(283118) 2008 VX	2008 11 01	735	Dellinger, J., Sexton, C.
(283067) 2008 RL ₄₅	2008 09 02	691	Spacewatch	(283119) 2008 VB ₁₈	2008 11 01	691	Spacewatch
(283068) 2008 RB ₉₈	2008 09 07	G96	Mt. Lemmon Survey	(283120) 2008 VX ₂₀	2008 11 01	G96	Mt. Lemmon Survey
(283069) 2008 RK ₁₁₂	2008 09 04	691	Spacewatch	(283121) 2008 VA ₅₀	2008 11 04	691	Spacewatch
(283070) 2008 RE ₁₃₂	2008 09 06	703	CSS	(283122) 2008 VQ ₅₃	2008 11 06	703	CSS
(283071) 2008 RS ₁₄₅	2008 09 06	691	Spacewatch	(283123) 2008 VD ₅₇	2008 11 06	G96	Mt. Lemmon Survey
(283072) 2008 SZ ₂	2008 09 19	704	LINEAR	(283124) 2008 VS ₅₉	2008 11 07	703	CSS
(283073) 2008 SP ₈₁	2008 09 21	185	Ory, M.	(283125) 2008 WF ₃₇	2008 11 17	691	Spacewatch
(283074) 2008 SK ₉₂	2008 09 21	691	Spacewatch	(283126) 2008 WK ₃₈	2008 11 17	691	Spacewatch
(283075) 2008 SK ₁₄₅	2008 09 20	691	Spacewatch	(283127) 2008 WE ₄₃	2008 11 17	691	Spacewatch
(283076) 2008 SW ₁₅₅	2008 09 23	704	LINEAR	(283128) 2008 WO ₆₇	2008 11 18	691	Spacewatch
(283077) 2008 SW ₁₇₅	2008 09 23	703	CSS	(283129) 2008 WR ₇₆	2008 11 20	691	Spacewatch
(283078) 2008 ST ₁₇₆	2008 09 23	G96	Mt. Lemmon Survey	(283130) 2008 WC ₈₅	2008 11 20	G96	Mt. Lemmon Survey
(283079) 2008 SS ₂₄₂	2008 09 29	691	Spacewatch	(283131) 2008 WM ₉₀	2008 11 22	G96	Mt. Lemmon Survey
(283080) 2008 SS ₂₄₄	2008 09 29	703	CSS	(283132) 2008 WS ₉₆	2008 11 25	G98	Molnar, L. A.
(283081) 2008 SZ ₂₆₉	2008 09 23	703	CSS	(283133) 2008 XH ₃₉	2008 12 02	691	Spacewatch
(283082) 2008 ST ₂₇₁	2008 09 30	G96	Mt. Lemmon Survey	(283134) 2008 XO ₄₈	2008 12 04	G96	Mt. Lemmon Survey
(283083) 2008 SA ₂₈₁	2008 09 24	G96	Mt. Lemmon Survey	(283135) 2008 XL ₅₀	2008 12 04	G96	Mt. Lemmon Survey
(283084) 2008 TD ₉	2008 10 07	G98	Molnar, L. A.	(283136) 2008 XV ₅₂	2008 12 03	703	CSS
(283085) 2008 TZ ₁₈	2008 10 01	G96	Mt. Lemmon Survey	(283137) 2008 XM ₅₅	2008 12 01	691	Spacewatch
(283086) 2008 TB ₂₁	2008 10 01	G96	Mt. Lemmon Survey	(283138) 2008 YJ ₄	2008 12 22	A77	Kugel, F.
(283087) 2008 TT ₈₉	2008 10 03	691	Spacewatch	(283139) 2008 YQ ₁₁	2008 12 21	691	Spacewatch
(283088) 2008 TX ₉₄	2008 10 05	J75	La Sagra	(283140) 2008 YX ₂₄	2008 12 28	H06	Lowe, A.
(283089) 2008 TN ₁₁₇	2008 10 06	691	Spacewatch	(283141) 2008 YW ₂₆	2008 12 28	198	Apitzsch, R.
(283090) 2008 TK ₁₆₆	2008 10 07	G96	Mt. Lemmon Survey	(283142) 2008 YV ₂₉	2008 12 29	B01	Schwab, E., Kling, R.
(283091) 2008 TK ₁₇₁	2008 10 01	691	Spacewatch	(283143) 2008 YO ₃₄	2008 12 31	621	Bickel, W.
(283092) 2008 UK ₅₁	2008 10 20	691	Spacewatch	(283144) 2008 YJ ₅₀	2008 12 29	G96	Mt. Lemmon Survey
(283093) 2008 US ₈₀	2008 10 22	691	Spacewatch	(283145) 2008 YX ₇₃	2008 12 30	691	Spacewatch
(283094) 2008 UX ₈₁	2008 10 22	G96	Mt. Lemmon Survey	(283146) 2008 YW ₁₂₁	2008 12 30	691	Spacewatch
(283095) 2008 UK ₁₀₀	2008 10 27	300	BATTeRS	(283147) 2008 YS ₁₂₄	2008 12 30	691	Spacewatch
(283096) 2008 UB ₁₂₈	2008 10 22	691	Spacewatch	(283148) 2008 YF ₁₃₄	2008 12 30	691	Spacewatch
(283097) 2008 UZ ₁₃₀	2008 10 23	691	Spacewatch	(283149) 2008 YX ₁₃₉	2008 12 30	691	Spacewatch
(283098) 2008 UR ₁₃₈	2008 10 23	691	Spacewatch	(283150) 2008 YT ₁₄₉	2008 12 21	691	Spacewatch
(283099) 2008 UE ₁₄₅	2008 10 23	691	Spacewatch	(283151) 2009 AD ₈	2009 01 01	D29	PMO NEO Survey Program
(283100) 2008 UX ₁₅₉	2008 10 23	691	Spacewatch	(283152) 2009 AH ₃₁	2009 01 15	691	Spacewatch
(283101) 2008 UV ₁₇₃	2008 10 24	703	CSS	(283153) 2009 AZ ₄₃	2009 01 03	G96	Mt. Lemmon Survey
(283102) 2008 UY ₁₇₆	2008 10 24	G96	Mt. Lemmon Survey	(283154) 2009 AD ₄₇	2009 01 01	691	Spacewatch
(283103) 2008 UB ₁₈₈	2008 10 24	691	Spacewatch	(283155) 2009 BC ₁₄	2009 01 26	704	LINEAR
(283104) 2008 UX ₁₈₈	2008 10 25	691	Spacewatch	(283156) 2009 BR ₅₅	2009 01 17	691	Spacewatch
(283105) 2008 UD ₂₁₀	2008 10 23	691	Spacewatch	(283157) 2009 BL ₆₀	2009 01 17	J75	La Sagra
(283106) 2008 UJ ₂₄₃	2008 10 26	691	Spacewatch	(283158) 2009 BZ ₆₅	2009 01 20	691	Spacewatch
(283107) 2008 UX ₂₆₁	2008 10 27	G96	Mt. Lemmon Survey	(283159) 2009 BW ₉₉	2009 01 28	703	CSS
(283108) 2008 UR ₂₇₁	2008 10 28	691	Spacewatch	(283160) 2009 BC ₁₅₁	2009 01 29	703	CSS
(283109) 2008 UK ₂₈₀	2008 10 28	703	CSS	(283161) 2009 BX ₁₆₂	2009 01 31	691	Spacewatch
(283110) 2008 UD ₂₉₀	2008 10 28	691	Spacewatch	(283162) 2009 BV ₁₇₂	2009 01 18	691	Spacewatch
(283111) 2008 UU ₂₉₈	2008 10 29	691	Spacewatch	(283163) 2009 BL ₁₉₀	2009 01 20	G96	Mt. Lemmon Survey

(283164) 2009 CR ₂₄	2009 02 01	691	Spacewatch	(283216) 2010 OO ₆₃	1999 10 04	C51	CSS
(283165) 2009 CP ₆₄	2009 02 03	691	Spacewatch	(283217) 2010 OV ₇₀	2010 07 25	C51	WISE
(283166) 2009 DZ ₁₅	2009 02 16	J75	La Sagra	(283218) 2010 OQ ₉₅	2010 07 28	C51	WISE
(283167) 2009 DN ₂₆	2009 02 22	493	Hormuth, F.	(283219) 2010 OW ₁₂₃	1999 10 10	C51	Spacewatch
(283168) 2009 DT ₁₁₇	2009 02 27	691	Spacewatch	(283220) 2010 PG ₁₀	2010 08 05	704	LINEAR
(283169) 2009 DC ₁₄₀	2009 02 19	704	LINEAR	(283221) 2010 PR ₂₆	2010 08 03	J75	La Sagra
(283170) 2009 ER ₄	2009 03 15	J75	La Sagra	(283222) 2010 PM ₄₁	1999 10 19	C51	LINEAR
(283171) 2009 FR ₅	2009 03 16	691	Spacewatch	(283223) 2010 PS ₇₉	2010 08 13	691	Spacewatch
(283172) 2009 FV ₂₆	2009 03 18	691	Spacewatch	(283224) 2010 QO ₁	2007 12 18	C51	Mt. Lemmon Survey
(283173) 2009 HZ ₆₂	2009 04 22	691	Spacewatch	(283225) 2010 QX ₂	2010 08 19	D29	PMO NEO Survey Program
(283174) 2009 HD ₈₁	2009 04 29	691	Spacewatch	(283226) 2010 RA ₅₁	2005 08 29	691	Spacewatch
(283175) 2009 JU ₁₀	2009 05 14	291	Spacewatch	(283227) 2010 RW ₆₀	2003 09 17	691	Spacewatch
(283176) 2009 QF ₅₉	2009 08 29	J75	La Sagra	(283228) 2010 RD ₆₅	2010 09 03	G96	Mt. Lemmon Survey
(283177) 2009 RR ₅₂	2007 03 15	691	Spacewatch	(283229) 2010 RS ₇₄	2002 10 31	704	Sloan Digital Sky Survey
(283178) 2009 SF ₁	2009 09 17	G96	Mt. Lemmon Survey	(283230) 2010 RL ₁₁₈	2010 09 11	691	Spacewatch
(283179) 2009 SS ₃₅	2009 09 16	691	Spacewatch	(283231) 2010 RX ₁₆₉	2006 09 19	G96	Spacewatch
(283180) 2009 SC ₁₆₀	2009 09 20	691	Spacewatch	(283232) 2010 RY ₁₇₁	2010 09 04	691	Spacewatch
(283181) 2009 US	2009 10 17	704	LINEAR	(283233) 2010 SB ₁₄	2005 10 26	691	Spacewatch
(283182) 2009 UJ ₂₈	2009 10 22	703	CSS	(283234) 2010 TG ₃₄	1995 04 06	691	Spacewatch
(283183) 2009 UG ₁₀₆	2009 10 21	G96	Mt. Lemmon Survey	(283235) 2010 TX ₁₄₇	2008 03 05	703	Spacewatch
(283184) 2009 WA ₃₃	2002 10 10	691	Sloan Digital Sky Survey	(283236) 2010 TT ₁₆₂	2010 10 11	947	Christophe, B.
(283185) 2010 AR ₃₀	2010 01 05	691	Spacewatch	(283237) 2010 UY ₂	2010 10 17	G96	Mt. Lemmon Survey
(283186) 2010 BG ₃	2010 01 19	A77	Kugel, F.	(283238) 2010 UL ₁₆	1999 09 05	703	LONEOS
(283187) 2010 BB ₁₃	2010 01 16	C51	WISE	(283239) 2010 UC ₆₅	2006 11 24	691	Spacewatch
(283188) 2010 BV ₁₅	2010 01 16	C51	WISE	(283240) 2010 VJ ₄₅	2006 11 11	691	Spacewatch
(283189) 2010 CG ₄	2010 02 06	G96	Mt. Lemmon Survey	(283241) 2010 VA ₇₄	2006 11 10	G96	Spacewatch
(283190) 2010 CO ₅	2010 02 09	G96	Mt. Lemmon Survey	(283242) 2011 AS ₃₀	2006 09 15	691	Spacewatch
(283191) 2010 CQ ₃₉	2010 02 13	G96	Mt. Lemmon Survey	(283243) 2011 DR ₃	2005 01 17	691	Spacewatch
(283192) 2010 CE ₄₄	2010 02 13	G98	Calvin College	(283244) 2011 DO ₈	2005 12 30	691	CSS
(283193) 2010 CM ₈₈	2010 02 14	G96	Mt. Lemmon Survey	(283245) 2011 DM ₁₁	2004 10 05	J75	Spacewatch
(283194) 2010 CS ₉₁	2010 02 14	G96	Mt. Lemmon Survey	(283246) 2011 DK ₁₆	1998 09 14	G96	Spacewatch
(283195) 2010 CS ₁₂₀	2010 02 15	703	CSS	(283247) 2011 EU ₁₇	2005 12 01	703	CSS
(283196) 2010 CC ₁₅₀	2010 02 14	703	CSS	(283248) 2011 EY ₁₉	2003 11 19	510	Spacewatch
(283197) 2010 CT ₁₇₀	2010 02 13	691	Spacewatch	(283249) 2011 ET ₂₈	2004 01 28	198	Spacewatch
(283198) 2010 CK ₁₈₄	2010 02 10	691	Spacewatch	(283250) 2011 EC ₂₉	1995 02 24	198	Spacewatch
(283199) 2010 DP ₁₃	2010 02 16	C51	WISE	(283251) 2011 EY ₂₉	2005 03 10	703	LONEOS
(283200) 2010 DH ₃₇	2010 02 16	691	Spacewatch	(283252) 2011 EL ₅₃	2003 02 21	691	NEAT
(283201) 2010 DG ₅₅	2010 02 21	C51	WISE	(283253) 2011 EO ₇₈	2008 09 03	691	Spacewatch
(283202) 2010 EA ₄₃	2010 03 13	G92	Jarnac	(283254) 2011 FH ₁	2003 11 18	185	Spacewatch
(283203) 2010 FV ₁₃	2010 03 17	691	Spacewatch	(283255) 2011 FA ₃	2006 04 02	703	Spacewatch
(283204) 2010 FE ₂₀	2003 04 25	G96	Spacewatch	(283256) 2011 FG ₄	2006 09 28	703	Mt. Lemmon Survey
(283205) 2010 FV ₄₈	2007 09 19	J04	Spacewatch	(283257) 2011 FA ₈	2005 04 04	691	CSS
(283206) 2010 GK ₁₃₉	2010 04 07	291	Spacewatch	(283258) 2011 FH ₁₈	2005 07 30	703	NEAT
(283207) 2010 HH ₇₉	2010 04 17	621	Bickel, W.	(283259) 2011 FD ₃₄	2007 01 27	691	Mt. Lemmon Survey
(283208) 2010 HG ₁₀₅	2003 11 19	291	Spacewatch	(283260) 2011 FN ₄₇	2005 09 25	691	Spacewatch
(283209) 2010 LE ₉₂	2010 06 12	C51	WISE	(283261) 2011 FR ₁₄₂	2007 09 12	691	Mt. Lemmon Survey
(283210) 2010 MG ₄₆	2000 02 27	C51	CSS	(283262) 2011 FU ₁₄₇	1981 02 02	691	Bus, S. J.
(283211) 2010 MH ₆₉	2006 10 19	C51	CSS	(283263) 2011 FH ₁₅₁	2005 11 03	703	Mt. Lemmon Survey
(283212) 2010 NM ₂₄	2007 11 05	C51	Spacewatch	(283264) 2011 FT ₁₅₁	2006 04 07	703	Siding Spring Survey
(283213) 2010 NY ₅₅	2010 07 10	C51	WISE	(283265) 2011 FM ₁₅₅	2007 08 06	G96	LUSS
(283214) 2010 OL ₂₃	2009 03 02	C51	Mt. Lemmon Survey	(283266) 2011 GX ₄₆	2007 10 15	691	Mt. Lemmon Survey
(283215) 2010 OQ ₄₆	2010 07 22	C51	WISE	(283267) 2011 GC ₅₇	2005 09 24	691	Spacewatch

(283268) 2011 HB ₄	2007 09 12	H10	Mt. Lemmon Survey
(283269) 2011 HY ₅	2006 01 02	703	Mt. Lemmon Survey
(283270) 2011 HS ₁₂	2007 07 07	691	Broughton, J.
(283271) 2011 HS ₁₈	2009 12 18	691	Mt. Lemmon Survey
(283272) 2011 HR ₁₉	2008 09 29	G96	Mt. Lemmon Survey
(283273) 2011 HU ₂₅	2005 10 26	F51	Spacewatch
(283274) 2011 HR ₂₈	2009 11 24	691	Spacewatch
(283275) 2011 HE ₂₉	1993 07 13	G96	Elst, E. W.
(283276) 2011 HF ₃₃	2006 05 20	F51	Spacewatch
(283277) 2011 HX ₃₄	2004 08 13	691	Wasserman, L. H.
(283278) 2011 HE ₃₆	2002 05 06	691	NEAT
(283279) 2011 HH ₃₈	2007 05 16	F51	PMO NEO Survey Program
(283280) 2011 HC ₃₉	2006 05 09	F51	Mt. Lemmon Survey
(283281) 2011 HR ₅₄	2002 06 05	691	NEAT
(283282) 2011 HS ₅₅	2006 07 21	G96	Mt. Lemmon Survey
(283283) 2011 HF ₆₃	2005 03 08	F51	Mt. Lemmon Survey
(283284) 2011 HK ₆₆	2005 03 02	691	CSS
(283285) 2011 HJ ₆₇	2003 04 01	691	Sloan Digital Sky Survey
(283286) 2011 HL ₆₇	2006 03 04	691	CSS
(283287) 2011 HN ₇₄	2002 06 14	G96	LINEAR
(283288) 2011 HQ ₇₄	2001 10 22	G96	NEAT
(283289) 2011 HK ₈₀	2007 10 10	691	CSS
(283290) 2011 HJ ₈₁	2000 05 28	E12	LINEAR
(283291) 2011 JB ₁₈	2008 06 30	G96	Spacewatch
(283292) 2011 JQ ₂₇	1994 01 08	G96	Spacewatch
(283293) 2011 JZ ₂₈	2007 09 19	G96	Spacewatch
(283294) 2011 JA ₃₁	2000 04 05	G96	LINEAR
(283295) 2011 KK ₁	2007 04 22	G96	Mt. Lemmon Survey
(283296) 2011 KZ ₁	2001 08 17	G96	NEAT
(283297) 2011 KT ₇	2006 12 21	F51	Spacewatch
(283298) 2011 KB ₈	2001 07 12	F51	NEAT
(283299) 2011 KN ₈	2001 12 19	F51	NEAT
(283300) 2011 KT ₈	2003 07 04	G96	Spacewatch
(283301) 2011 KA ₉	2000 03 03	926	Sloan Digital Sky Survey
(283302) 2011 KB ₉	2005 02 01	926	Spacewatch
(283303) 2011 KH ₁₁	2004 06 11	G96	NEAT
(283304) 2011 KL ₂₂	2007 02 17	691	Spacewatch
(283305) 2011 KK ₂₃	2002 03 12	691	NEAT
(283306) 2011 KS ₂₄	2000 02 12	G96	Sloan Digital Sky Survey
(283307) 2011 KU ₂₄	2006 04 02	G96	Spacewatch
(283308) 2011 KW ₂₄	2008 11 06	F51	Spacewatch
(283309) 2011 KZ ₂₄	2004 03 26	F51	Spacewatch
(283310) 2011 KB ₂₅	2003 11 30	F51	Spacewatch
(283311) 2011 KO ₂₆	2007 04 15	691	Spacewatch
(283312) 2011 KR ₂₆	2005 11 03	G96	Mt. Lemmon Survey
(283313) 2011 KE ₂₇	2005 11 30	F51	LINEAR
(283314) 2011 KG ₂₉	2006 03 05	G96	Spacewatch
(283315) 2011 KE ₃₅	1997 09 30	G96	Spacewatch
(283316) 1029 T-3	1977 10 17	675	van Houten & Gehrels
(283317) 2049 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 (2011 Aug. 27.0 TT):

Object	<i>H</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	<i>MPO</i>
(282028)	17.5	337.67512	114.43725	247.97358	3.86539	0.2477813	2.3191301200349	
(282029)	16.6	60.10060	357.82368	295.92030	6.65424	0.1149178	2.3092717200349	
(282030)	16.7	313.63865	167.40669	191.96506	8.89173	0.2388612	2.6984441200349	
(282031)	16.5	349.35176	63.89693	270.98869	9.57485	0.0734801	3.0431571200350	
(282032)	15.8	327.03135	56.94743	328.15693	7.58298	0.0984011	3.0303142200350	
(282033)	18.4	313.05380	129.64548	211.62590	3.92441	0.1505320	2.1996883200350	
(282034)	15.7	239.97135	184.74091	214.66885	13.18688	0.1751558	2.6386908200350	
(282035)	16.8	301.24251	112.21023	234.90053	7.06716	0.1404973	2.6228563200351	
(282036)	17.9	31.20503	71.02728	168.21087	6.99820	0.0668990	2.3646905200351	
(282037)	16.1	15.79253	330.56070	347.30069	7.94564	0.2210581	2.6566463200351	
(282038)	16.8	346.23771	117.58830	209.27493	6.99429	0.3240775	2.6795518200351	
(282039)	15.8	329.81917	106.90663	256.51139	11.35556	0.2892267	2.6943276200352	
(282040)	15.8	0.54877	22.79501	322.46838	13.18783	0.1788865	2.6499872200352	
(282041)	16.0	352.79244	346.14146	341.10850	13.64412	0.2523262	2.6950598200352	
(282042)	16.5	351.59937	197.80459	155.73376	9.83973	0.3795554	2.6570463200353	
(282043)	16.8	349.87600	158.75778	181.69153	5.18859	0.2256882	2.2127850200353	
(282044)	17.2	304.48572	178.77059	191.12917	7.77438	0.2633478	2.2412085200353	
(282045)	15.6	178.14503	331.13269	52.30977	11.94051	0.0529758	3.0322172200354	
(282046)	15.8	288.87499	185.50280	255.25234	10.80664	0.2956860	2.7291369200354	
(282047)	16.2	263.21204	93.93162	170.01598	4.66127	0.1206146	2.6178885200354	
(282048)	16.1	40.10500	204.62016	45.06438	11.44886	0.1816119	2.4788012200355	
(282049)	16.3	319.30516	178.77270	157.72539	8.02649	0.2171814	2.5861177200355	
(282050)	17.1	332.17435	219.79847	160.37846	8.98873	0.3072259	2.5370679200355	
(282051)	16.3	335.07863	251.82158	119.34472	6.29345	0.2881161	2.5393061200355	
(282052)	15.2	311.70312	92.52834	335.90603	21.87818	0.3696594	2.5511187200356	
(282053)	15.3	81.79046	135.84421	206.24060	20.16945	0.2057712	3.1212761200357	
(282054)	17.1	307.53385	151.12777	203.91262	3.04527	0.2604796	2.5993259200357	
(282055)	17.2	116.47195	238.04122	132.12541	2.94337	0.2393798	2.3409541200357	
(282056)	16.8	309.49961	150.33683	209.89604	12.63266	0.1953269	2.6008854200358	
(282057)	16.3	319.31781	86.04868	295.15001	6.12943	0.2337363	2.5765002200358	
(282058)	16.7	355.46457	119.18833	197.86775	12.42724	0.1751308	2.5707359200358	
(282059)	16.9	259.12837	26.05364	348.20596	4.42317	0.1194906	2.6522440200358	
(282060)	15.7	83.61841	114.02712	230.69734	16.35401	0.2790216	3.0748669200359	
(282061)	15.9	282.34738	162.32630	229.65111	13.06934	0.2991289	2.6169607200359	
(282062)	17.1	316.97518	138.45964	197.79709	12.60306	0.2146545	2.6162367200359	
(282063)	15.9	269.91166	172.63359	222.34566	17.37047	0.1923538	2.6394551200360	
(282064)	16.5	338.06161	106.13946	254.40646	3.46873	0.3280080	2.5692619200360	
(282065)	15.7	90.23450	109.31317	232.12169	9.77863	0.0876392	3.1858199200361	
(282066)	16.2	46.08757	208.98725	209.55275	9.52549	0.1692363	3.0768609200361	
(282067)	16.2	280.76227	279.57335	102.06129	14.38137	0.2839303	2.6536272200361	
(282068)	16.9	151.22123	349.58843	94.38750	26.49484	0.1233204	1.9243948200361	
(282069)	15.8	303.27806	130.98357	234.71959	11.71876	0.2072735	2.6294075200362	
(282070)	16.0	294.15552	115.16008	251.98901	10.79162	0.1461515	2.6814789200362	
(282071)	16.5	324.52649	180.59190	243.36911	6.89480	0.2366908	2.5497419200362	
(282072)	16.7	323.91574	103.89897	278.88008	10.88769	0.3332118	2.5706573200363	
(282073)	16.3	314.14049	88.07133	289.37511	13.07466	0.1709396	2.6689061200363	
(282074)	15.4	160.58457	223.54627	294.05313	11.24167	0.1042700	2.7385232200364	
(282075)	18.0	28.21239	310.00932	328.44065	1.27415	0.1273598	2.2425628200364	
(282076)	16.7	82.95462	58.60007	137.68426	22.78846	0.1443262	2.2783132200364	
(282077)	17.9	69.04528	42.65054	150.46405	7.78769	0.1281864	2.3068988200364	
(282078)	16.9	81.12055	346.89207	187.15008	4.84133	0.1542410	2.3458870200365	

(282079)	15.0	77.03869	327.47676	222.34139	13.11282	0.1226648	3.0208804200365	(282131)	16.3	81.57139	150.87171	229.16323	16.90647	0.1792905	2.6459253200382
(282080)	17.1	19.64195	159.00961	125.28308	6.55188	0.1558775	2.3395532200365	(282132)	16.9	282.31399	297.79603	76.51128	8.00763	0.1807609	2.3022676200382
(282081)	16.4	4.78592	37.51190	286.73178	12.39171	0.2929908	2.3634811200366	(282133)	16.6	24.26010	250.56296	34.85525	0.96600	0.3257771	2.9190038200382
(282082)	16.5	21.10025	184.78918	129.68852	24.11357	0.0630396	1.9572751200366	(282134)	17.2	357.86216	60.67798	261.22268	4.23598	0.1742457	2.2535142200383
(282083)	15.9	3.71914	80.67477	249.17344	22.44707	0.2592604	2.3850678200366	(282135)	16.9	4.71682	39.32415	280.74883	5.51126	0.1504602	2.2424527200383
(282084)	16.0	339.58901	0.36043	348.57338	12.84789	0.3098038	2.4160216200367	(282136)	17.1	357.84883	41.16283	289.99290	5.77519	0.2481527	2.2404220200383
(282085)	17.4	341.99277	199.28105	154.35317	2.70868	0.2200384	2.3930997200367	(282137)	17.9	21.96968	164.86062	152.34603	3.07051	0.2532992	2.2076592200383
(282086)	17.5	0.18731	197.56265	153.91251	3.04146	0.2557762	2.3598434200367	(282138)	16.2	258.66110	148.21073	283.23512	23.38688	0.2520328	2.2776745200384
(282087)	17.4	308.53664	204.93419	140.96207	2.60527	0.1921110	2.4436066200367	(282139)	15.8	300.17189	172.07899	180.73558	6.04554	0.2402068	3.0546546200384
(282088)	17.1	338.22518	62.18997	262.62210	3.98133	0.2280978	2.4168355200368	(282140)	16.0	7.44032	161.66059	132.66617	11.25732	0.1853956	2.9716989200384
(282089)	16.8	15.91343	2.03463	341.77197	6.03982	0.2005945	2.3420403200368	(282141)	18.3	23.66006	139.23611	171.82311	1.63912	0.3051011	2.2169923200385
(282090)	15.8	11.19948	181.68039	170.63667	20.92829	0.1678109	3.0898666200368	(282142)	15.1	266.42189	214.88793	178.07460	10.73809	0.2618120	3.0915314200385
(282091)	16.0	344.68380	53.34820	294.58561	9.35791	0.3147120	3.1343354200368	(282143)	14.9	215.45700	187.25055	225.29833	13.24329	0.1034158	3.1985137200385
(282092)	17.5	15.68408	284.71369	22.06222	2.67181	0.2410189	2.3852180200369	(282144)	17.2	349.61123	295.91049	44.49833	6.27914	0.2265253	2.2458320200386
(282093)	16.7	7.12265	97.31191	205.16133	12.55320	0.2953634	2.4135242200369	(282145)	15.4	309.37400	256.23866	91.20178	15.52188	0.2491689	3.0774587200386
(282094)	15.8	225.84609	15.75727	323.87204	10.24059	0.1419136	2.6215739200369	(282146)	15.5	311.91081	75.70883	262.50632	9.52764	0.1843690	3.0614576200386
(282095)	16.0	303.90718	130.21146	247.47389	7.46523	0.1446977	2.4501873200370	(282147)	17.3	338.82747	83.28546	261.68613	6.90234	0.1787816	2.2613734200387
(282096)	15.1	346.72849	150.86031	210.21455	14.01909	0.2904720	3.1155513200370	(282148)	17.5	186.63898	274.80021	167.99404	22.42864	0.1091088	1.9250397200387
(282097)	16.7	355.72699	138.31741	201.67696	3.41836	0.2116377	2.3969124200370	(282149)	17.0	355.81507	170.97017	122.04851	3.80122	0.1678209	2.2947826200387
(282098)	16.8	340.50373	205.17842	152.56745	4.19313	0.2255453	2.4034542200371	(282150)	16.5	347.37255	7.54255	334.02465	5.56152	0.2490748	2.2637191200387
(282099)	14.8	17.79112	356.18500	291.37382	12.08437	0.0891794	3.2114122200371	(282151)	17.7	331.04601	71.71127	257.57145	5.09036	0.2203968	2.2848987200388
(282100)	16.5	129.07294	23.18781	285.92156	7.34821	0.2344268	2.2336586200371	(282152)	15.8	335.93003	149.78017	164.70192	10.91519	0.1286025	3.0620760200388
(282101)	16.8	301.18912	227.21766	158.91460	1.88560	0.1940475	2.4409812200371	(282153)	17.0	221.52433	181.62630	247.17688	20.03044	0.0838769	1.9054869200388
(282102)	16.4	320.76134	113.07642	260.78174	4.90723	0.1671148	2.4290890200372	(282154)	16.7	275.83804	217.29842	173.18110	11.57034	0.1792935	2.9075654200389
(282103)	16.5	284.23098	334.02908	18.40375	6.89443	0.1219988	2.5246523200372	(282155)	16.1	306.23985	207.49751	145.44212	1.53932	0.2651559	3.0698375200389
(282104)	15.9	284.00176	264.57826	148.27106	14.08153	0.1840010	2.4426574200372	(282156)	17.4	278.52069	207.28066	176.77690	21.76083	0.0859109	1.8937370200389
(282105)	16.7	275.61828	143.56096	262.63705	3.89534	0.1399454	2.4775759200373	(282157)	17.1	306.20950	153.05911	222.55421	5.98775	0.1355325	2.2799198200390
(282106)	16.3	301.31974	97.80962	288.06254	3.61000	0.2008983	2.4604523200373	(282158)	17.2	27.82887	90.47259	190.52209	6.26167	0.1331562	2.2729670200390
(282107)	16.8	249.71735	203.47354	194.71873	3.06723	0.1406501	2.5276139200373	(282159)	14.4	321.91892	106.01610	261.68169	10.76512	0.2492981	3.0775175200390
(282108)	16.0	311.76636	265.79097	117.36913	8.08046	0.2274862	2.4662684200374	(282160)	17.9	55.08258	74.64283	158.09090	7.64404	0.0550847	1.8841260200391
(282109)	17.1	60.84013	189.64424	240.58525	20.41994	0.0817921	1.8802512200374	(282161)	17.3	136.54982	329.79136	173.08765	22.45584	0.0607498	1.9010665200391
(282110)	16.7	337.80652	189.27767	169.47484	5.02010	0.2072929	2.4413411200375	(282162)	15.5	295.24623	166.04198	183.02315	9.37622	0.0980438	3.1097095200392
(282111)	16.2	240.77897	159.62791	240.01559	6.02660	0.1115935	2.5512727200375	(282163)	18.1	14.05129	127.13015	178.31858	0.32030	0.2118077	2.2527708200392
(282112)	16.3	299.76261	258.23092	132.57822	7.09818	0.1255144	2.4683315200375	(282164)	15.3	343.06001	111.06079	180.92085	10.54222	0.0234741	3.1814445200392
(282113)	16.0	284.63092	291.31625	116.84993	11.79339	0.2583549	2.4719570200375	(282165)	16.4	20.58213	165.59188	171.02397	2.68043	0.1863257	2.9169039200393
(282114)	15.6	331.70116	153.49010	170.74864	2.61530	0.1244187	2.5137219200376	(282166)	16.0	293.94413	260.91413	142.31264	2.47991	0.1799356	3.0367306200393
(282115)	16.0	249.74875	298.11335	103.25636	4.78117	0.2561222	2.5862378200376	(282167)	18.4	22.92608	105.46746	171.52166	2.93524	0.1990968	2.2834378200393
(282116)	15.8	187.56061	327.49981	120.08979	15.06161	0.1356644	2.6401248200377	(282168)	15.2	315.62794	151.90558	193.25833	3.72875	0.2779324	3.0929111200393
(282117)	16.8	78.37346	344.51604	107.11911	7.43139	0.0980716	2.2361255200377	(282169)	16.7	74.36945	159.43565	174.61816	12.96767	0.1364497	2.7788729200394
(282118)	14.9	22.19123	88.06853	83.32912	14.77975	0.1821264	2.9093016200377	(282170)	17.6	346.93873	87.29357	251.61494	6.13024	0.1406191	2.2642303200394
(282119)	15.9	300.76674	216.22935	165.16212	12.43016	0.2078446	2.5365942200378	(282171)	17.2	4.78764	57.44505	257.82059	7.05083	0.2555971	2.2506243200394
(282120)	15.3	60.16473	237.50970	134.33758	19.24132	0.2110874	3.1319057200378	(282172)	15.1	335.80827	81.02623	314.29583	13.87171	0.3319103	2.9802049200395
(282121)	15.1	355.68312	329.15894	150.76466	10.37385	0.1964535	3.0741455200379	(282173)	14.6	209.11885	191.38013	247.18008	24.12391	0.0693465	3.2175898200395
(282122)	16.6	272.58304	226.35599	150.30899	9.67735	0.1084248	2.6717460200379	(282174)	17.2	348.49234	103.81454	208.51937	21.63609	0.0873891	1.8947506200395
(282123)	15.8	94.52703	22.84595	139.90387	10.40491	0.1482850	2.7548865200379	(282175)	17.6	194.02464	260.28096	195.21475	23.59705	0.1212199	1.9174338200396
(282124)	15.8	138.83007	318.34968	157.51404	13.82266	0.1523317	2.7710329200379	(282176)	16.5	348.96435	208.57679	117.55547	5.85317	0.1636302	2.2807758200396
(282125)	18.1	46.08613	44.86162	131.30007	2.72564	0.2235120	2.2567739200380	(282177)	16.8	315.51103	135.94452	218.75808	10.52783	0.2245837	2.2959709200397
(282126)	16.0	343.13904	65.62488	259.52030	23.29437	0.3039537	2.2671168200380	(282178)	16.9	308.35227	113.56166	228.89472	6.22200	0.1326744	2.3311123200397
(282127)	16.1	37.10598	138.19138	122.94858	24.56442	0.1890962	2.2304907200380	(282179)	14.8	270.68954	288.69422	125.37386	21.53112	0.2121342	3.1120046200397
(282128)	17.2	27.93685	125.70931	172.46137	8.19735	0.2464452	2.2109599200381	(282180)	17.1	210.74161	185.72818	285.51101	18.19909	0.0482968	1.8702161200398
(282129)	15.3	106.16701	44.71380	330.31616	14.94775	0.1459278	2.5660450200381	(282181)	16.3	347.18648	151.13758	196.91764	14.09519	0.3907696	2.9828933200398
(282130)	17.0	3.35684	49.83222	241.80252	19.30888	0.0830909	1.8760926200381	(282182)	15.5	285.30926	155.74899	207.93798	15.36107	0.0729832	3.1528089200398

(282183)	15.4	268.27943	164.74415	210.34863	14.53142	0.1743631	3.1753939200399	(282235)	16.4	55.69929	72.87944	140.99656	3.85093	0.0523459	2.5738459200415
(282184)	16.4	347.15058	82.511155	250.15715	4.79369	0.2074290	2.2881564200399	(282236)	16.3	28.23897	93.69782	153.07900	2.96652	0.0910167	2.5668472200415
(282185)	15.2	12.01447	64.75764	203.15008	17.40980	0.1741198	3.0934407200399	(282237)	16.5	60.82107	75.63237	143.88692	14.90231	0.0621420	2.5334356200415
(282186)	15.0	282.25258	153.12589	248.63270	8.81035	0.0747969	3.0884212200400	(282238)	15.6	15.12249	36.06290	312.95808	9.22612	0.1293443	3.2132855200416
(282187)	17.5	323.27173	111.66121	220.86158	6.91058	0.1974026	2.3177527200400	(282239)	16.2	87.91278	340.23738	186.81827	11.73999	0.1879846	2.5891975200416
(282188)	17.6	11.25514	65.99920	282.82082	3.48146	0.1923548	2.2330777200400	(282240)	16.6	108.73692	352.11578	165.00708	6.79359	0.0881320	2.5467189200416
(282189)	15.7	33.22728	207.06254	236.60200	8.32470	0.1471845	2.7325589200401	(282241)	17.2	92.37744	333.00460	188.82526	4.76198	0.1420483	2.5818820200416
(282190)	18.0	313.06395	255.62411	92.42440	4.05341	0.1930134	2.3012687200401	(282242)	16.6	131.44339	14.85084	99.53380	15.53086	0.2028180	2.5646663200417
(282191)	16.7	60.30392	122.51909	329.22930	11.13451	0.1558621	2.6321825200401	(282243)	17.0	85.53166	327.65923	201.42716	7.63220	0.1586906	2.6044667200417
(282192)	12.8	305.46538	82.57508	300.95979	14.10574	0.0882984	5.2208814200402	(282244)	15.9	90.77050	74.29469	129.31685	12.80860	0.0858159	2.5752797200417
(282193)	17.1	295.99675	219.51115	122.03188	7.53112	0.1037592	2.3585216200402	(282245)	16.3	53.47913	61.34256	170.97487	11.72128	0.2064182	2.6295785200418
(282194)	15.6	223.79517	211.42368	200.26610	9.03856	0.0833922	3.1681571200402	(282246)	15.4	307.43610	173.71168	107.59970	17.56799	0.2202355	2.7952384200418
(282195)	17.2	11.32026	116.99293	199.01938	6.40265	0.3190069	2.2606728200402	(282247)	16.1	61.29478	24.62423	210.74014	13.58827	0.1403805	2.5582537200418
(282196)	15.8	87.12440	316.10201	45.12480	13.09417	0.2287474	2.7085265200403	(282248)	16.5	45.58250	119.96496	46.75368	5.21017	0.0442921	2.7605370200418
(282197)	17.1	313.95769	187.13595	188.31810	10.58107	0.2528988	2.3003448200403	(282249)	14.9	156.71878	262.41056	18.77791	11.93202	0.0612508	3.1790757200419
(282198)	12.5	72.88047	357.53557	256.13178	7.10254	0.0455782	5.3107210200403	(282250)	16.6	37.17581	96.23782	169.69911	9.12031	0.0915495	2.5843364200419
(282199)	17.5	260.77004	201.16763	196.15175	23.42404	0.0727274	1.9131643200404	(282251)	16.2	144.27212	337.23010	141.66260	4.94871	0.1098837	2.6043876200419
(282200)	15.6	292.95602	145.93639	198.49910	10.64820	0.0970212	3.1793352200404	(282252)	15.2	51.49795	359.88498	42.46315	6.64767	0.1275063	3.1023042200420
(282201)	15.5	267.69845	171.18675	241.59952	8.93728	0.0797396	3.1233907200404	(282253)	16.5	64.29640	345.98973	195.84218	9.64060	0.0720923	2.6927832200420
(282202)	16.6	292.25204	113.90205	247.57431	5.16866	0.1456329	2.3564461200404	(282254)	15.9	36.29916	144.81646	99.53478	13.54695	0.3296196	2.6506057200420
(282203)	14.9	242.11352	150.00872	291.80600	9.28886	0.2111978	3.1467661200405	(282255)	16.7	15.89103	54.55651	232.14410	12.31155	0.1653630	2.6454044200420
(282204)	15.4	306.77550	102.13226	270.64082	9.82612	0.1639950	3.0954119200405	(282256)	15.8	357.62123	97.08922	219.28421	10.29246	0.2559974	2.6561974200421
(282205)	15.0	310.51340	102.22326	267.49680	7.94549	0.0937220	3.1095248200405	(282257)	16.3	23.83151	37.26496	230.34786	12.66756	0.2205032	2.6658612200421
(282206)	17.0	298.81982	125.07939	268.54000	6.69126	0.1114269	2.3082546200406	(282258)	17.3	213.76323	254.07902	348.08594	1.82808	0.1686225	2.3262965200421
(282207)	17.3	104.40521	298.52962	242.65584	18.28301	0.0596533	1.9291316200406	(282259)	16.6	25.54750	160.87310	149.28747	16.84688	0.2112171	2.5522300200422
(282208)	15.3	298.78901	252.50193	111.67264	12.75481	0.2924050	3.1466529200406	(282260)	16.2	43.28541	136.52458	112.22204	14.91354	0.2291029	2.6181110200422
(282209)	16.7	77.05806	79.22203	55.29465	26.88631	0.3131449	2.5893717200406	(282261)	16.3	22.14658	160.09301	124.24999	15.96353	0.1790106	2.5975634200422
(282210)	16.8	36.88666	63.76119	11.38976	4.71411	0.0935464	2.7217963200407	(282262)	16.7	14.34730	2.24423	214.76929	13.89158	0.1821918	2.7457124200422
(282211)	16.7	357.80020	45.43278	236.82492	6.30295	0.0930672	2.3856672200407	(282263)	15.8	5.97248	58.32432	244.27965	10.95575	0.1935211	2.6211181200422
(282212)	15.4	315.60691	285.96327	100.32035	23.91702	0.2520491	2.3366918200407	(282264)	16.9	346.65842	35.26347	220.49988	9.82607	0.1985928	2.7880123200423
(282213)	14.9	300.57500	204.05100	200.83539	10.11180	0.0724258	3.1053588200408	(282265)	15.9	22.98980	172.02378	121.17967	15.68242	0.1229395	2.6271929200423
(282214)	16.9	255.08979	291.95768	100.10346	4.82813	0.1492073	2.3905092200408	(282266)	16.4	30.07704	81.33748	230.85141	4.83356	0.2812212	2.6217256200423
(282215)	15.2	70.61124	274.19179	83.79096	12.62462	0.0763919	2.8527748200408	(282267)	16.1	344.02337	34.07568	295.41699	13.89002	0.1217953	2.7118667200424
(282216)	17.2	289.96285	256.40956	98.04596	25.37646	0.1336881	1.9471207200409	(282268)	16.7	21.70834	54.65171	193.30405	11.63602	0.2081819	2.7366445200424
(282217)	16.5	207.25492	318.31194	106.76446	7.05221	0.0989207	2.4397939200409	(282269)	16.2	322.82699	219.44319	116.89328	18.54356	0.2757600	2.7956359200424
(282218)	16.1	287.03389	207.06188	190.12217	1.93078	0.1837295	3.1452580200409	(282270)	15.7	337.20725	83.48411	268.69754	5.85158	0.2853862	2.7564967200424
(282219)	17.4	282.46333	243.56884	128.64793	2.02276	0.1852360	2.3673543200409	(282271)	16.5	12.58233	160.89750	109.94851	10.53423	0.1741141	2.7656132200425
(282220)	16.8	334.06480	112.21335	246.62081	4.23189	0.1593371	2.2924381200410	(282272)	15.8	125.04609	197.51232	226.50091	8.48147	0.1030902	3.1400654200425
(282221)	17.4	334.27758	227.38387	127.27917	2.85909	0.2431205	2.3061398200410	(282273)	16.6	102.78599	41.72878	198.09358	8.31098	0.1424763	2.6379277200425
(282222)	17.1	116.49380	80.50420	81.54402	23.02308	0.0464330	1.9614533200410	(282274)	16.4	333.94194	138.37693	184.37958	8.92088	0.1582705	2.7870538200425
(282223)	16.7	337.75393	99.00669	299.10770	4.91387	0.1648484	2.2839112200411	(282275)	15.9	333.61878	91.74226	240.35499	16.51848	0.2781146	2.7964188200426
(282224)	15.3	315.82766	91.36001	299.25409	19.61840	0.2539083	3.0924225200411	(282276)	16.0	309.64416	101.99033	274.79987	11.82594	0.2186457	2.7690522200426
(282225)	16.5	50.59251	349.86215	115.00601	14.81568	0.1929714	2.6914269200411	(282277)	16.1	348.45141	112.28903	203.66918	8.48566	0.1425111	2.7680121200426
(282226)	16.7	339.82769	82.92392	291.03610	7.03633	0.3641923	2.2955742200412	(282278)	15.6	342.97418	190.91304	140.87961	15.15550	0.1635260	2.7224511200427
(282227)	16.8	256.29800	311.90944	121.47670	25.23990	0.0783564	1.9310110200412	(282279)	15.5	329.16516	99.45689	282.07845	13.56898	0.1423324	2.6907607200427
(282228)	16.0	80.62668	42.50852	131.23770	33.03870	0.2068112	2.6286754200412	(282280)	16.5	40.67296	106.61709	135.82597	8.44371	0.2814366	2.7381700200427
(282229)	17.0	95.87164	41.36762	127.84029	8.36716	0.0860727	2.5303265200413	(282281)	16.3	21.63060	118.20494	141.41090	15.35038	0.1707621	2.7704283200427
(282230)	16.8	60.65983	11.26560	189.81638	1.68511	0.1347208	2.5440732200413	(282282)	16.3	350.09343	178.10390	136.44208	6.93270	0.0332825	2.7547794200428
(282231)	15.8	80.29971	86.09705	106.71988	13.85816	0.2611196	2.5826010200413	(282283)	16.5	332.77557	80.03481	296.86007	7.22857	0.3320992	2.7628072200428
(282232)	16.3	82.05758	333.88640	83.08384	5.50199	0.2050259	2.7579633200414	(282284)	16.2	15.67225	140.70653	166.04926	11.72625	0.2162456	2.7083962200428
(282233)	16.0	121.29998	359.27702	152.48554	16.85875	0.0887320	2.5412912200414	(282285)	15.6	310.39935	103.07051	291.70186	12.38751	0.2215025	2.7622259200428
(282234)	16.7	144.20849	338.14728	123.40782	6.15872	0.1064378	2.5730090200414	(282286)	15.8	332.70511	86.66269	328.19204	6.93226	0.3237191	2.6774763200429

(282287)	15.2	334.59298	79.05292	261.66102	10.87359	0.1509171	2.7854083200429	(282339)	15.8	10.29715	194.51590	137.52299	8.82140	0.2849535	2.7748020200444
(282288)	16.0	342.99402	148.87464	180.23088	17.64333	0.1484144	2.7766163200430	(282340)	15.2	260.82735	150.30839	270.55342	9.01001	0.1110208	2.9633183200444
(282289)	16.3	358.07785	100.31783	240.05249	6.52544	0.2018474	2.7094629200430	(282341)	15.2	242.56374	181.88546	257.53980	11.39021	0.0561386	2.9687525200445
(282290)	15.8	3.56540	255.67193	77.41258	10.06265	0.1770433	2.7301064200430	(282342)	17.7	125.38703	56.82032	80.62712	3.00266	0.1492786	2.3097082200445
(282291)	16.4	358.14396	179.92547	141.89627	7.18908	0.0435595	2.7229193200431	(282343)	16.2	273.05121	270.59853	114.97274	5.88841	0.2162278	2.2259862200445
(282292)	16.2	356.79690	104.79895	209.83410	14.12303	0.1376404	2.7410859200431	(282344)	15.9	329.46534	228.70502	116.89249	10.82115	0.0820823	2.9316835200446
(282293)	15.3	327.11231	76.58391	284.59671	7.67813	0.1706836	2.7890494200431	(282345)	15.2	328.44011	121.89499	77.65344	31.84400	0.2514937	2.6271738200446
(282294)	16.0	327.73725	115.07132	242.51397	6.76136	0.0871036	2.7623347200432	(282346)	15.5	166.62447	230.97799	263.10411	9.08814	0.0682688	3.0988914200446
(282295)	15.7	302.33502	139.29113	256.72005	8.14853	0.1766781	2.7564580200432	(282347)	15.3	69.12542	251.04742	310.40471	21.35513	0.3009651	2.3701260200447
(282296)	16.2	283.29461	188.00387	171.60702	11.46824	0.1025482	2.9168610200432	(282348)	17.9	282.48980	245.19329	131.38636	24.33714	0.0359222	1.8249503200447
(282297)	16.2	297.06289	266.21388	133.52814	17.33785	0.2137779	2.7208067200433	(282349)	16.5	59.80126	278.45102	137.65858	6.84829	0.1722278	2.6423304200447
(282298)	17.0	39.91380	67.57874	180.93699	7.82374	0.1794801	2.7814696200433	(282350)	14.8	199.72001	176.02970	296.82313	21.53565	0.0802985	3.1934646200447
(282299)	16.7	345.00689	151.13061	133.98050	10.46354	0.0642496	2.8571641200433	(282351)	17.4	82.12535	29.24364	151.27347	4.51076	0.0910285	2.3961725200448
(282300)	16.3	328.46889	247.94232	99.47376	3.70196	0.0908892	2.7745271200433	(282352)	16.4	292.90377	299.15356	312.62848	12.25931	0.2303098	2.6397284200448
(282301)	17.2	352.90672	135.63357	233.43493	10.09466	0.1525102	2.6924406200434	(282353)	16.1	58.45952	13.33251	114.18156	6.25260	0.2085121	2.5717717200448
(282302)	15.6	33.68749	345.62523	282.45460	11.38566	0.1386343	2.8122232200434	(282354)	16.8	337.36570	145.70684	117.57850	4.84123	0.2094952	2.5552944200449
(282303)	15.7	242.37412	180.99768	266.07333	12.90080	0.1604315	2.7787910200434	(282355)	16.7	270.89151	192.35064	161.55377	6.46976	0.1354651	2.4023480200449
(282304)	16.7	4.96185	175.51223	183.16910	1.48506	0.2335580	2.7227893200434	(282356)	16.3	296.47656	169.53955	15.93808	7.72695	0.1305013	2.7650306200449
(282305)	16.6	350.96767	215.32372	152.72798	5.02596	0.1353826	2.7184070200435	(282357)	17.7	22.57190	248.39990	47.86357	3.81001	0.2070456	2.4192001200449
(282306)	15.7	4.57135	159.74797	170.67700	8.64008	0.2937850	2.7674030200435	(282358)	17.3	48.70184	93.04328	159.30241	3.57522	0.1293783	2.4196586200450
(282307)	16.5	316.02317	277.98379	98.15892	3.77220	0.2102480	2.7986188200435	(282359)	16.6	11.16438	186.51233	106.14628	6.88394	0.2473656	2.4647001200450
(282308)	17.4	276.34969	197.91971	181.28317	6.10574	0.1532908	2.1772029200436	(282360)	17.4	37.59144	49.83793	182.57142	22.23933	0.0540917	1.9249650200450
(282309)	15.4	222.72048	156.61237	254.53429	8.44779	0.1206606	3.0238406200436	(282361)	16.2	340.31816	192.27130	142.14544	12.92471	0.1313561	2.5279339200450
(282310)	16.3	107.27088	285.06266	115.42049	6.74742	0.1545967	2.4214891200436	(282362)	15.5	17.91956	68.68594	214.90976	13.71034	0.2614103	2.5448423200451
(282311)	15.8	358.50661	118.60762	220.85931	9.70078	0.2832304	2.7672610200436	(282363)	15.9	359.74812	202.62541	114.31299	8.59844	0.2094422	2.5298365200451
(282312)	15.8	331.45027	138.90256	255.54572	8.13046	0.1436767	2.7318556200437	(282364)	17.3	354.67326	221.31504	109.26876	24.79251	0.0732546	1.9100766200452
(282313)	15.8	23.96678	16.43553	267.40806	9.02008	0.2396379	2.7926521200437	(282365)	16.3	12.81255	138.32520	142.47459	12.11329	0.0328132	2.5692965200452
(282314)	15.1	301.96707	139.18338	281.53368	7.93257	0.2585003	2.7846556200437	(282366)	15.8	11.22484	305.08280	317.00901	10.03855	0.1921631	2.5786692200452
(282315)	15.2	193.64557	223.65179	217.42538	8.54379	0.0113241	2.9849816200437	(282367)	16.3	329.31555	156.79668	162.07024	34.32400	0.2329475	2.6037726200452
(282316)	16.1	41.88874	4.77322	307.31444	9.12508	0.1541120	2.7411152200438	(282368)	15.6	28.95783	336.06020	302.75232	15.86078	0.1493346	2.5164276200453
(282317)	14.8	348.14673	100.06009	266.20486	7.28263	0.2691600	2.7575793200438	(282369)	16.7	31.41530	48.23323	194.86202	12.09694	0.2381535	2.5587272200453
(282318)	16.1	314.23529	132.43831	212.17172	14.15195	0.1652212	2.8864099200438	(282370)	15.2	330.35283	82.43037	248.42288	27.08325	0.2418728	2.6191581200453
(282319)	15.6	296.46535	213.34164	133.29091	11.64660	0.1134253	2.9647965200439	(282371)	16.6	297.68336	163.59803	201.71594	12.31248	0.1513957	2.6042261200454
(282320)	15.6	332.87554	91.60008	233.96490	13.86389	0.1601978	2.8467856200439	(282372)	16.9	327.13356	163.79668	186.52231	14.75506	0.1040035	2.5749847200454
(282321)	15.9	320.58208	128.26594	263.36962	11.67932	0.1709000	2.7955025200439	(282373)	16.9	40.95702	109.85981	296.22213	6.79409	0.0873525	2.3054862200454
(282322)	17.3	107.54767	352.10318	15.35389	5.37977	0.2113100	2.4577857200440	(282374)	16.0	291.63875	175.99883	176.88927	11.33651	0.1744567	2.6619030200454
(282323)	16.1	326.70331	146.99698	249.48494	8.72291	0.2570321	2.7436315200440	(282375)	16.3	310.02779	207.10577	142.18639	6.02691	0.2580421	2.6100431200454
(282324)	16.1	321.93502	256.09165	131.57243	9.91202	0.2254620	2.7551639200440	(282376)	17.1	0.17693	167.30973	160.60201	6.27132	0.2704984	2.5391909200455
(282325)	15.6	5.26954	64.44199	252.81393	12.17683	0.2101490	2.7888136200441	(282377)	15.5	264.89934	248.57222	144.11752	11.83427	0.2669873	2.6947919200455
(282326)	16.4	136.02298	1.77883	111.04801	10.00600	0.0365240	3.1378840200441	(282378)	15.9	297.57654	219.66892	144.72084	10.83234	0.1360691	2.6552317200455
(282327)	15.5	75.38986	51.29098	131.78756	10.70740	0.0765075	3.1078357200441	(282379)	16.4	336.50715	70.68076	297.81720	11.46875	0.2808992	2.5553906200456
(282328)	16.1	283.89450	206.82380	130.46970	11.97516	0.0641763	3.0703346200441	(282380)	16.5	302.02946	147.01231	206.63780	12.80490	0.1071467	2.6101597200456
(282329)	15.7	234.89772	282.29291	114.12315	12.06285	0.1330437	3.0562289200441	(282381)	16.5	6.36822	56.87964	239.48203	13.02545	0.1745324	2.5678426200456
(282330)	15.8	146.15697	289.80241	193.48932	9.65754	0.0558951	3.0845959200442	(282382)	16.3	295.50067	245.90260	146.74933	14.14774	0.1765586	2.5842378200457
(282331)	15.6	193.01823	203.37044	229.48373	8.85592	0.0696592	3.1039660200442	(282383)	15.9	358.90711	68.29984	240.31460	13.07429	0.1825186	2.5962379200457
(282332)	15.8	191.83802	245.98595	207.33031	10.39897	0.0095807	2.9877252200442	(282384)	15.0	183.23192	312.73874	10.55528	9.06048	0.0830478	3.1602462200457
(282333)	17.0	340.02286	98.59549	268.34931	7.89576	0.2229913	2.7197719200442	(282385)	16.9	142.52866	42.50407	251.99449	5.75163	0.0817597	2.2965578200457
(282334)	15.8	303.37902	244.60721	89.08629	10.90413	0.0842637	2.9929432200443	(282386)	15.3	202.46931	300.08689	9.19383	11.30990	0.0567721	3.1324514200458
(282335)	15.4	265.73582	148.68278	221.58594	9.29852	0.0814264	3.0701335200443	(282387)	15.6	70.82794	231.05557	248.45262	11.67160	0.1115275	3.0235001200458
(282336)	12.7	270.18876	139.55225	262.36180	9.14785	0.0437708	5.2177599200443	(282388)	16.4	328.65946	69.31945	284.42403	10.96288	0.1179444	2.5883839200458
(282337)	16.1	277.37775	90.05685	264.09814	8.73350	0.1171481	2.9968206200443	(282389)	16.7	10.40222	34.22922	316.47347	11.92572	0.1221650	2.5197187200458
(282338)	16.6	279.19275	114.45945	245.50214	8.23192	0.1227245	2.2213132200444	(282390)	17.0	246.27597	245.83240	136.88000	1.14173	0.0849087	2.7675177200459

(282391)	17.2	107.91707	142.56146	189.29869	3.11495	0.1642508	2.3408748200459	(282443)	16.4	330.49274	197.11290	190.99435	5.74309	0.3748341	2.5881147200475
(282392)	15.8	282.61260	133.49615	231.20434	15.36388	0.1227449	2.6931554200459	(282444)	14.8	154.00821	330.79836	110.95253	29.16801	0.1687182	3.1377479200476
(282393)	16.2	286.72912	148.85679	219.58480	10.49276	0.0866097	2.7006513200459	(282445)	16.9	28.85259	11.79515	140.78343	4.04581	0.1636149	2.3169841200476
(282394)	16.2	293.25967	152.36301	212.85132	13.73649	0.1343720	2.7039075200460	(282446)	15.3	78.05248	98.48884	83.17410	10.16051	0.0446958	3.0846945200476
(282395)	14.8	44.26998	10.55290	272.63172	27.91638	0.0315729	2.5728505200460	(282447)	16.2	11.16078	178.46092	111.65198	9.79226	0.0558342	2.9770429200477
(282396)	16.4	18.83114	95.62480	191.03920	12.58714	0.2764259	2.5715808200460	(282448)	15.2	13.29379	121.83073	131.46481	16.55062	0.0612630	3.1375499200477
(282397)	16.6	304.19235	218.43493	169.45167	8.83505	0.2188020	2.6090092200461	(282449)	15.5	84.07707	85.03141	126.56371	22.50360	0.1055194	3.0397744200477
(282398)	16.1	334.01954	76.95188	328.33083	5.51374	0.3164822	2.5528963200461	(282450)	15.8	303.78430	267.63068	120.72815	14.22549	0.1623824	2.8030948200477
(282399)	15.5	298.82698	145.53255	217.12220	28.53220	0.2157202	2.7237965200462	(282451)	15.1	123.82394	6.88168	140.32568	16.93433	0.0706660	3.0744496200478
(282400)	16.5	359.68528	71.88369	240.43826	10.65958	0.1382017	2.6276755200462	(282452)	15.2	219.74702	300.46857	119.78136	18.53778	0.0724903	3.0739440200478
(282401)	15.9	6.92670	303.24599	353.62928	13.53363	0.1462516	2.6591075200462	(282453)	16.6	59.66119	309.08707	294.71970	10.01124	0.1213132	3.0081369200478
(282402)	16.3	12.66425	53.27340	210.35424	7.91370	0.0586935	2.7081875200463	(282454)	17.5	129.72300	290.93840	123.12536	5.76293	0.1319199	2.3165455200478
(282403)	16.7	25.95045	183.53904	60.25123	2.02359	0.0758858	2.7266128200463	(282455)	16.5	315.09348	99.37034	126.37845	7.08927	0.0888086	2.3692515200479
(282404)	16.2	357.98866	184.71507	100.08476	13.39500	0.1847605	2.7336093200463	(282456)	15.2	185.95730	315.40858	125.76461	12.49121	0.1160497	3.1246306200479
(282405)	16.7	304.90755	117.83969	250.66466	18.49326	0.0887738	1.9676935200463	(282457)	16.3	22.68971	156.19637	87.14349	7.39200	0.1356951	3.1790184200479
(282406)	15.7	288.28807	250.73653	122.67906	14.17047	0.2290760	2.6988454200464	(282458)	15.5	168.87697	343.40581	110.88312	18.50405	0.0576339	3.1630755200479
(282407)	17.2	134.08039	224.07218	88.79767	5.30360	0.1313547	2.3214311200464	(282459)	15.4	62.78652	90.08729	108.10101	10.79201	0.0449434	3.1477250200480
(282408)	15.8	339.63952	81.91767	235.50308	10.45858	0.2090609	2.6640841200464	(282460)	15.9	193.22192	314.48598	170.03612	9.55958	0.0450077	2.9958036200480
(282409)	16.8	302.18210	105.87518	277.38775	18.19263	0.0808066	1.9739891200465	(282461)	16.8	349.97920	102.31614	146.86853	6.39030	0.1653584	2.2986431200480
(282410)	16.3	1.07799	91.42300	219.85473	11.07239	0.2773801	2.6032430200465	(282462)	15.3	171.49228	286.63039	162.86783	26.38109	0.0967193	3.1740349200480
(282411)	16.0	302.92533	117.92126	250.09780	5.03022	0.0728682	2.6776578200465	(282463)	17.1	98.32163	285.87061	276.25537	6.17017	0.0968436	2.1789964200481
(282412)	16.2	358.23293	200.99993	116.54308	8.61361	0.1883484	2.6108949200465	(282464)	17.2	50.41089	66.08672	159.87627	6.86697	0.1437384	2.2314239200481
(282413)	15.9	339.57756	99.35477	250.46323	11.08128	0.1747309	2.6333144200466	(282465)	16.8	13.75340	286.95304	283.07863	4.65803	0.1895494	2.3344753200481
(282414)	16.0	271.92090	203.90473	179.02199	6.77302	0.2307747	2.7302006200466	(282466)	14.9	298.14327	217.58920	249.90805	23.03760	0.2031181	2.6885164200482
(282415)	15.7	268.94666	169.74665	203.53790	12.26887	0.1252918	2.7621107200466	(282467)	16.9	41.50595	214.75021	43.82594	6.39782	0.1721665	2.2232106200482
(282416)	16.4	297.52300	134.10343	215.32136	11.67519	0.1354929	2.7298916200467	(282468)	17.6	43.03523	70.24782	153.34953	3.34796	0.1673731	2.2444263200482
(282417)	15.5	292.52311	131.73728	245.08911	20.89476	0.0240116	2.6867429200467	(282469)	17.3	354.90712	28.41475	207.30079	5.06985	0.1837225	2.3450581200483
(282418)	17.1	311.42706	259.42911	98.47456	2.37828	0.3228805	2.6665746200467	(282470)	17.7	20.79815	78.09838	184.84136	5.74287	0.3401899	2.2846645200483
(282419)	16.7	348.46716	355.11474	12.26051	4.75895	0.3409007	2.5631899200467	(282471)	16.6	108.63374	89.94437	98.47117	5.45411	0.0915381	2.2040170200483
(282420)	15.8	320.80395	130.58478	225.76221	25.27525	0.2634567	2.6729296200468	(282472)	17.5	57.17582	120.67890	90.39747	5.27723	0.1450716	2.2686752200484
(282421)	15.8	314.08384	128.90175	232.35843	8.23419	0.0995028	2.6607879200468	(282473)	17.0	25.05232	166.17434	107.53755	7.62532	0.2062172	2.2477350200484
(282422)	16.6	202.52394	221.02406	203.02391	7.04831	0.0414350	2.8065258200469	(282474)	17.3	69.15685	357.12819	231.86295	2.60945	0.1314956	2.2073413200484
(282423)	16.2	260.36767	178.58397	247.93008	14.71037	0.1882458	2.5530500200469	(282475)	16.6	16.41326	348.39743	210.85236	24.39564	0.1731800	2.3367537200485
(282424)	16.2	298.32555	186.38334	163.31262	9.43484	0.0996756	2.7214165200469	(282476)	17.7	35.64318	25.11935	219.29303	6.49298	0.0744172	2.2436183200485
(282425)	17.2	11.72127	21.55418	273.30789	3.93545	0.1085672	2.5916456200469	(282477)	17.0	65.30935	16.57724	173.88520	22.64966	0.1501932	2.2868808200485
(282426)	16.8	10.71875	92.43608	165.31291	7.18022	0.0910591	2.7457725200469	(282478)	16.8	45.78087	30.76531	201.15648	22.46755	0.1212039	2.2724427200485
(282427)	15.7	104.72104	55.37003	35.10572	13.26187	0.0458936	3.1342743200470	(282479)	17.3	32.17770	58.35786	218.00286	6.56635	0.1228653	2.2375174200486
(282428)	17.4	100.75968	304.23955	59.55304	2.21374	0.2000477	2.3464456200470	(282480)	15.4	107.02821	77.23812	163.93243	10.01651	0.0743701	3.1267753200486
(282429)	15.8	250.07919	165.48649	260.62684	8.21880	0.1284846	2.7356441200470	(282481)	17.2	17.95892	123.90474	145.25795	8.00713	0.1702712	2.2830549200486
(282430)	17.2	82.62954	157.73936	255.23121	4.53120	0.1530956	2.3145116200471	(282482)	16.0	65.33469	114.29763	103.05190	24.31368	0.2402730	2.3135864200486
(282431)	16.0	335.25045	94.98627	245.35355	6.84422	0.3586186	2.6465201200471	(282483)	16.7	3.83745	61.78503	259.23357	11.04600	0.2540094	2.3093719200487
(282432)	16.0	294.68304	128.08090	233.15857	13.59424	0.0924582	2.7688543200471	(282484)	15.8	48.45205	276.14164	313.75947	21.68886	0.2695779	2.3474843200487
(282433)	15.7	345.30679	104.74652	250.11238	11.04430	0.2240486	2.6352770200472	(282485)	16.9	39.26854	17.35038	254.35080	4.56193	0.1240744	2.2863580200488
(282434)	15.5	318.72050	131.62881	254.21764	11.06349	0.2682292	2.6425890200472	(282486)	16.6	29.71817	89.69875	160.07924	6.82776	0.0712875	2.3492810200488
(282435)	15.8	279.74162	175.86048	226.74159	16.84709	0.1366054	2.7312324200473	(282487)	17.2	350.36622	147.26612	158.23219	4.66620	0.2227028	2.3408384200488
(282436)	15.7	146.34297	305.01713	152.07845	16.27625	0.2536982	3.0500004200473	(282488)	16.8	343.94780	34.07955	299.07216	4.79462	0.2517441	2.3403715200488
(282437)	15.5	320.96951	77.59865	295.17805	11.61346	0.2065782	2.6700897200473	(282489)	15.8	259.26931	135.45126	134.04478	13.29910	0.0783332	2.6473279200489
(282438)	15.8	244.77496	313.75063	131.49859	10.44935	0.2581454	2.7511642200473	(282490)	17.2	346.16588	41.43075	300.41455	6.36330	0.1240861	2.3068217200489
(282439)	15.7	252.51437	275.76639	118.99060	17.54415	0.2997524	2.7994014200474	(282491)	16.9	351.33870	195.82421	127.62389	3.54163	0.1824816	2.3444011200489
(282440)	16.2	340.50560	71.64853	277.44308	10.16527	0.3200177	2.6426573200474	(282492)	15.3	81.65323	168.08859	140.71604	19.89248	0.0532155	3.2394818200490
(282441)	17.5	59.79647	294.25231	131.54065	2.15265	0.1634777	2.3852536200475	(282493)	16.5	14.41255	249.12376	12.94446	5.11494	0.1768250	2.3970612200490
(282442)	17.5	30.27091	221.03955	241.58996	4.22777	0.1910344	2.3609102200475	(282494)	17.6	230.65501	266.49491	107.80354	27.54681	0.1081119	1.8805235200490

(282495)	17.6	25.10741	147.40458	132.38996	7.04590	0.2145468	2.3256858200491	(282547)	17.4	336.97382	213.19004	140.17366	1.34496	0.2352784	2.3790404200506
(282496)	16.9	339.57425	218.67584	126.91554	4.89348	0.2385275	2.3596006200491	(282548)	17.6	329.76695	107.43574	218.59330	1.74604	0.2069751	2.4551008200506
(282497)	15.9	102.21244	75.90959	231.89089	12.52506	0.2913969	3.1654289200491	(282549)	17.2	53.68095	82.65006	190.06892	4.18219	0.1786277	2.3674888200507
(282498)	17.1	0.87556	41.83091	286.94203	2.02427	0.2269525	2.3095991200491	(282550)	16.4	131.40439	251.68497	199.97882	11.31847	0.0593183	2.7264928200507
(282499)	16.0	320.90867	249.67132	137.01508	24.86884	0.2650643	2.3173012200492	(282551)	16.1	78.66928	161.86548	222.57170	3.80884	0.1406337	3.1245045200507
(282500)	17.0	29.70887	75.73663	192.51508	2.09135	0.1811348	2.3529986200492	(282552)	17.0	330.48047	231.27810	114.20562	7.67483	0.1377289	2.3905221200507
(282501)	15.8	67.88482	176.20146	223.36413	5.07708	0.2500979	3.0445931200492	(282553)	16.0	29.11931	29.75265	222.04138	13.91746	0.0636018	2.5244969200507
(282502)	16.9	345.06732	199.09118	153.32984	12.36010	0.2130497	2.3247344200493	(282554)	16.0	252.15120	287.71855	116.14933	17.76457	0.2043368	2.5356497200508
(282503)	17.0	33.91206	121.78904	151.48085	13.24054	0.2130469	2.348042200493	(282555)	16.4	300.90343	284.48081	116.97819	10.80569	0.2362100	2.3800250200508
(282504)	16.9	9.42537	24.52287	318.45715	6.65825	0.1393673	2.2933722200493	(282556)	16.8	333.77033	67.62221	298.56151	12.58513	0.1948466	2.3807879200508
(282505)	16.7	2.51108	105.13734	241.01099	1.64159	0.2371290	2.3338914200493	(282557)	15.9	21.69814	43.11516	220.93053	12.56119	0.1190780	2.5258951200509
(282506)	15.5	128.79039	179.38293	98.02127	19.84463	0.1951937	3.1387314200494	(282558)	15.8	334.47408	257.58209	55.87074	9.06477	0.1448869	2.5251987200509
(282507)	16.9	326.23131	134.53463	205.94602	4.51885	0.2863435	2.3911172200494	(282559)	17.4	354.62723	34.33713	324.10817	2.37330	0.2419844	2.3471436200509
(282508)	17.2	345.01325	251.83793	86.51586	6.78029	0.1558118	2.3235375200494	(282560)	16.9	61.07112	319.38614	261.22854	18.73876	0.0733855	1.9103778200510
(282509)	15.8	305.43702	144.37506	144.50381	13.72068	0.2771480	2.5363783200495	(282561)	14.9	254.57740	309.39470	80.77240	29.21261	0.2326321	2.6311803200510
(282510)	16.8	291.74028	261.73073	108.44497	8.97268	0.2181550	2.4143991200495	(282562)	15.9	107.57182	67.24550	83.48270	10.35532	0.1005982	2.7823917200510
(282511)	16.3	347.17007	107.61894	253.75587	21.58632	0.3276936	2.3308536200495	(282563)	16.2	247.44593	274.27569	134.21337	13.81078	0.1893264	2.5444632200510
(282512)	16.2	73.33990	356.07045	355.90481	4.73427	0.1836098	3.1566861200495	(282564)	15.8	255.58399	139.81851	289.33229	12.99606	0.1796167	2.5549916200511
(282513)	16.8	304.02905	257.88184	108.12633	12.87750	0.2815531	2.4185437200496	(282565)	15.7	313.76931	302.07616	46.93924	3.08341	0.2536918	2.5313125200511
(282514)	17.7	344.19825	137.30999	170.93862	1.07773	0.1974020	2.3907256200496	(282566)	16.6	331.02278	229.62710	76.60689	5.51125	0.0453473	2.6618664200511
(282515)	16.9	17.97620	151.28661	172.69184	5.73387	0.1292552	2.2983027200496	(282567)	16.5	0.75353	178.49955	108.79314	12.59817	0.0609618	2.6788295200512
(282516)	17.2	331.50766	185.80048	139.00914	3.21260	0.2143920	2.3943246200497	(282568)	16.5	179.78216	342.65859	104.71746	4.25936	0.0625716	2.7760121200512
(282517)	16.6	59.27853	355.01358	244.52285	4.69095	0.1913205	2.3516842200497	(282569)	16.2	247.71273	292.88701	98.78309	5.08789	0.1202623	2.6799111200512
(282518)	17.2	14.22773	285.80948	13.47519	5.66249	0.2319981	2.3445880200497	(282570)	17.5	255.35801	277.87292	116.28909	22.80958	0.0932867	1.9035323200512
(282519)	16.9	301.84523	256.28236	98.51442	2.54404	0.2068945	2.4350018200498	(282571)	15.6	228.91924	328.71685	109.54969	14.33792	0.0438278	2.6495798200513
(282520)	16.4	10.53417	199.28694	107.38845	16.60037	0.3141305	2.3415312200498	(282572)	16.2	261.11927	251.06937	131.88309	12.90307	0.1951123	2.6600851200513
(282521)	17.3	326.80834	169.98123	184.32087	6.31873	0.1273543	2.3472339200498	(282573)	16.1	283.87984	254.29817	115.75024	10.50112	0.1304080	2.6304216200513
(282522)	17.1	18.02403	98.95874	166.83576	4.46575	0.1916780	2.3864856200498	(282574)	16.3	286.47019	248.31194	122.41857	6.29780	0.2157967	2.5967688200513
(282523)	17.1	18.05484	108.13257	230.03886	5.12659	0.2189486	2.2814877200499	(282575)	16.1	117.68333	62.66071	89.38639	5.45086	0.0208156	2.7647689200514
(282524)	17.0	358.41303	79.70627	289.32554	4.46628	0.1855091	2.2767122200499	(282576)	17.5	294.11090	137.95940	13.00327	1.40205	0.1823592	2.3049395200514
(282525)	17.7	8.70514	47.26420	261.21202	1.70482	0.2087149	2.3395686200499	(282577)	16.3	228.50412	278.37563	126.11384	12.99334	0.2121710	2.6836685200514
(282526)	16.9	316.24717	153.52359	190.41959	8.73425	0.2016448	2.4051226200500	(282578)	17.1	273.16176	254.25803	138.22622	22.60628	0.1520782	1.9029663200514
(282527)	16.5	354.10904	61.91386	237.80466	5.69746	0.1393643	2.4081048200500	(282579)	15.8	312.11996	211.70132	128.10389	15.08591	0.0935365	2.7689415200515
(282528)	16.3	9.19632	6.03416	328.87772	4.15171	0.1726433	2.3190438200500	(282580)	15.8	30.34608	287.86039	291.21988	6.65246	0.1986189	3.0037256200515
(282529)	16.3	19.70149	346.00648	339.02788	5.54969	0.1773135	2.3176799200501	(282581)	17.1	352.06593	188.32361	145.60039	24.55199	0.0740461	1.8947538200515
(282530)	15.7	71.54085	296.32055	310.27893	22.91510	0.2131834	2.3286734200501	(282582)	15.6	87.73147	5.71103	145.82939	9.30774	0.2272308	3.1022835200515
(282531)	16.6	21.27181	44.28769	251.74137	7.21505	0.2908560	2.3291940200501	(282583)	16.0	3.03215	89.88898	185.90143	7.41176	0.2392652	3.1428869200516
(282532)	17.1	332.37304	201.27186	187.50835	6.22656	0.2103968	2.3255669200502	(282584)	16.3	316.57441	153.41584	169.93917	11.51088	0.0465004	2.9620203200516
(282533)	18.5	13.40781	78.14695	194.95093	1.97980	0.2799670	2.3520958200502	(282585)	16.2	356.92044	110.67943	173.17103	10.34118	0.0749755	2.9833482200516
(282534)	16.4	289.17716	122.93919	251.79818	13.31798	0.2331084	2.4274585200502	(282586)	15.6	47.63605	358.80144	212.43235	8.49920	0.0995435	3.0364314200516
(282535)	17.5	351.61569	156.14380	141.79968	3.10177	0.1731906	2.4003359200503	(282587)	15.9	231.44588	200.23930	207.93746	7.57084	0.0188577	2.9288972200517
(282536)	17.1	182.88351	298.90414	183.84114	5.65391	0.0759822	2.4201265200503	(282588)	16.5	194.50121	297.80251	187.50431	4.92842	0.0600829	2.7104715200517
(282537)	17.4	10.39297	125.71138	140.78317	5.46819	0.1079929	2.4094249200503	(282589)	16.4	13.73023	159.04960	129.86411	9.72479	0.0808973	2.7220566200517
(282538)	17.7	5.09850	160.91115	152.68596	3.52094	0.2336535	2.3478362200503	(282590)	16.2	311.49735	151.23165	167.11164	4.50761	0.0599559	3.0702862200517
(282539)	15.4	41.37371	206.28509	217.98286	5.20008	0.1069659	3.2083574200504	(282591)	15.9	50.71830	55.22736	164.60460	8.07260	0.0287385	2.9859356200518
(282540)	17.1	348.40950	34.88605	308.95081	4.13320	0.2534611	2.3643774200504	(282592)	16.1	70.69133	343.22753	195.66259	5.58231	0.0983760	3.1306890200518
(282541)	17.5	316.59501	243.67863	141.01868	5.27904	0.1520231	2.3389414200504	(282593)	16.3	267.93533	200.87013	189.35208	13.13982	0.1467127	2.8383053200518
(282542)	17.1	277.05841	199.88861	169.67076	4.26493	0.1544055	2.4610640200505	(282594)	16.1	29.54783	117.84450	123.34000	3.00311	0.0406097	2.9493194200518
(282543)	16.1	223.75361	284.12343	140.07675	13.75977	0.1601952	2.5351198200505	(282595)	16.2	345.97686	104.89628	182.27052	9.06930	0.0063058	3.0648911200519
(282544)	15.9	318.31015	98.86467	215.45200	7.12302	0.0706837	2.5630262200505	(282596)	15.5	52.23897	46.94646	179.29945	10.64760	0.0625072	2.9963764200519
(282545)	15.9	241.05992	246.43211	92.93777	6.94039	0.1793179	2.6575045200506	(282597)	16.1	103.72298	346.27718	160.81290	9.99601	0.2032349	3.0519465200519
(282546)	16.8	287.32228	198.46687	211.11808	6.27146	0.1039351	2.3929695200506	(282598)	15.7	33.23293	37.94181	198.25008	10.00927	0.0359273	3.0887827200519

(282599)	16.2	340.47030	52.06667	239.53616	1.30252	0.0588382	3.0261189200520	(282651)	17.1	60.22145	98.47412	110.77862	2.74742	0.0866007	2.3609839200533
(282600)	15.8	15.87227	118.57983	167.68619	15.00680	0.1391569	2.8532700200520	(282652)	15.8	47.27871	23.25623	40.44746	6.52155	0.0774433	2.9426224200534
(282601)	15.6	80.34310	46.31737	110.78790	15.66211	0.2274462	3.1678119200520	(282653)	17.5	296.77512	171.42556	199.04218	6.78064	0.2356415	2.2119676200534
(282602)	15.6	11.17623	43.61319	211.89371	11.20116	0.0367535	3.1354025200521	(282654)	15.9	265.79863	148.38126	262.66984	23.07044	0.2941974	2.2792485200534
(282603)	15.7	47.89765	124.78991	110.97064	17.54890	0.1833778	3.0919880200521	(282655)	17.4	76.58153	323.40732	219.56750	6.12086	0.1210576	2.3727792200535
(282604)	16.0	83.26551	5.32460	214.35453	4.61373	0.1044340	2.8875922200521	(282656)	17.5	353.68395	65.94058	189.74151	6.23351	0.1504064	2.2775177200535
(282605)	14.9	84.09359	331.27071	196.35313	16.14596	0.1548797	3.1516526200521	(282657)	17.1	340.01141	47.83064	270.28851	3.94188	0.2005416	2.2166552200535
(282606)	15.3	306.26739	126.77918	198.73547	6.79928	0.0571026	3.1281737200522	(282658)	17.1	90.12323	322.93997	219.27936	1.76434	0.1368584	2.3822760200536
(282607)	15.7	125.29280	283.15430	204.99858	11.79806	0.0815163	3.1288463200522	(282659)	16.9	238.24113	129.75301	307.30360	4.96079	0.1047826	2.2287716200536
(282608)	16.1	310.83289	105.34989	210.69044	16.83195	0.1502170	3.1869771200522	(282660)	15.5	286.95562	258.96181	357.66660	7.58317	0.2324590	2.5538902200536
(282609)	16.1	19.33928	54.07448	202.76808	12.12790	0.1604967	3.0782432200522	(282661)	17.2	265.52929	286.73813	93.56746	7.76318	0.1141651	2.2767736200536
(282610)	15.9	91.69880	28.22445	163.22479	12.69980	0.1043571	3.0472650200522	(282662)	15.7	121.05158	250.36291	101.22225	10.84351	0.1839374	2.7445325200537
(282611)	15.9	252.02131	169.41820	213.57230	8.69234	0.0780688	3.1631973200523	(282663)	17.7	343.20760	118.45398	195.25712	2.80304	0.1916214	2.2455046200537
(282612)	15.4	63.89828	317.35912	231.42991	27.23063	0.1796741	3.1658591200523	(282664)	17.3	61.33380	337.92111	218.56678	4.08949	0.1785579	2.4194464200537
(282613)	16.1	11.55880	127.56508	161.38550	14.29121	0.2756682	3.1062367200523	(282665)	15.6	289.64300	234.80275	254.03989	9.84629	0.0500410	3.2152694200537
(282614)	15.8	127.28437	285.88883	205.88157	8.81107	0.1071176	3.0712776200524	(282666)	15.7	86.74359	194.01838	115.26645	1.98060	0.2478535	3.0645108200537
(282615)	15.5	65.31093	330.06336	223.26248	15.91727	0.1613052	3.1536995200524	(282667)	17.5	47.72724	355.43893	256.61790	0.38354	0.0774149	2.2726327200538
(282616)	16.0	336.52568	110.96535	191.26262	5.07680	0.1043229	3.1628459200524	(282668)	17.9	191.44870	268.19873	170.38660	5.45007	0.0975310	2.3056071200538
(282617)	15.8	341.54259	169.16812	171.88285	9.13183	0.2153832	3.0625277200524	(282669)	17.4	114.21112	289.54547	228.14192	5.61251	0.0330569	2.3407365200538
(282618)	16.0	35.70588	60.44655	181.67414	9.95589	0.0235942	3.1815199200525	(282670)	18.3	30.26394	25.94385	256.82828	3.01738	0.1832181	2.1987094200539
(282619)	16.1	65.74854	356.73916	200.69744	13.52247	0.0406883	3.2376088200525	(282671)	15.7	54.39832	179.63151	224.48295	9.09442	0.0782049	3.0205329200539
(282620)	15.6	348.50059	208.34549	113.72825	12.63184	0.1946304	3.1279882200525	(282672)	17.1	302.73747	188.29463	164.45277	5.49125	0.1955447	2.2381618200539
(282621)	15.3	312.82556	274.00238	84.85931	14.09801	0.3129785	3.1774957200525	(282673)	17.0	343.19695	100.37625	241.35461	5.48409	0.0366723	2.2325418200539
(282622)	15.6	52.35653	93.96498	125.40427	16.89854	0.0905175	3.2266459200526	(282674)	15.5	66.74564	119.19391	261.95531	10.85502	0.0723356	3.1162794200540
(282623)	15.6	62.39754	136.06565	98.15919	13.33305	0.0481279	3.1146720200526	(282675)	16.4	33.34329	269.73229	153.97095	13.88292	0.1785663	3.0544510200540
(282624)	17.1	74.54028	333.29792	121.28142	6.85776	0.0426038	2.2990012200526	(282676)	17.8	319.51187	285.37819	73.90091	1.33971	0.0978187	2.2463926200540
(282625)	15.4	353.67681	201.36897	123.79950	18.75804	0.1439175	3.2410768200526	(282677)	15.8	33.74487	19.89818	22.54051	2.09828	0.1628760	3.1089027200540
(282626)	15.8	345.16944	189.08490	148.47696	12.85490	0.0949479	3.0527787200526	(282678)	16.4	72.54110	281.48068	75.69766	4.41509	0.2367421	3.0684840200541
(282627)	16.4	38.29312	155.39802	330.26355	14.89988	0.1105369	2.5395286200527	(282679)	15.2	10.97781	177.38152	262.20932	16.91186	0.1691711	3.1354544200541
(282628)	16.8	50.65474	182.05611	229.60568	3.65715	0.0668644	2.7614852200527	(282680)	15.3	91.27699	164.67235	199.44846	9.88673	0.1010733	2.9861054200541
(282629)	18.2	356.23756	117.32118	178.10365	4.82176	0.2098476	2.1519124200527	(282681)	15.5	26.17544	20.51553	45.38066	10.38160	0.0773057	3.0426953200542
(282630)	15.4	25.41513	132.42268	205.67546	10.24567	0.1214803	3.1562676200527	(282682)	17.3	279.65383	262.48603	106.14183	6.56046	0.1197453	2.2976525200542
(282631)	15.6	50.55229	111.09997	237.46995	8.48210	0.0867206	3.0940015200528	(282683)	17.1	308.76876	88.71430	296.28027	5.36043	0.1349541	2.2012061200542
(282632)	17.4	350.59017	168.90250	136.62557	3.73840	0.1716438	2.1888167200528	(282684)	15.7	152.98269	317.95529	115.79274	33.75189	0.2917342	2.6079601200543
(282633)	16.4	46.17764	107.83942	2.71660	12.63228	0.1431163	2.6924301200528	(282685)	16.6	269.27480	127.13010	283.14636	9.85365	0.1016956	2.2581417200543
(282634)	16.9	91.89511	349.96508	189.29363	7.10187	0.0385630	2.3063806200528	(282686)	16.6	39.62089	291.66738	152.17992	2.00899	0.2375413	2.9819090200543
(282635)	16.9	12.12024	91.59507	66.20930	6.67133	0.1251084	2.6281161200529	(282687)	16.6	315.33318	201.81569	88.60021	5.08926	0.1500228	2.5812768200544
(282636)	16.0	118.97689	116.32147	226.63065	5.47378	0.1070375	2.7565188200529	(282688)	16.1	283.68144	125.17929	109.96910	10.81922	0.0301197	2.9771968200544
(282637)	16.0	84.78048	142.04496	244.41666	8.00126	0.1764913	2.7775625200529	(282689)	17.1	28.55103	354.22526	292.94915	5.73881	0.0871924	2.3628727200544
(282638)	16.4	40.34635	260.06643	122.77370	1.81649	0.2060470	3.0470558200530	(282690)	16.7	107.20303	276.75904	275.85732	5.02627	0.1548568	2.4621447200544
(282639)	17.4	305.23129	217.50655	124.53455	6.38391	0.2785777	2.2410097200530	(282691)	17.0	189.25448	219.53624	272.46247	5.87221	0.0553276	2.3160313200545
(282640)	17.4	129.95672	83.33666	40.77964	5.43355	0.0614923	2.3709801200530	(282692)	17.3	71.82953	117.82758	106.67923	3.30188	0.1280468	2.4428094200545
(282641)	15.9	18.28215	232.52873	173.94890	10.12448	0.1863909	3.1121053200530	(282693)	16.5	102.46709	81.90319	127.37158	7.80832	0.0331833	2.4078436200545
(282642)	17.4	277.27916	148.24863	221.28429	6.26140	0.0979116	2.2534765200531	(282694)	16.7	141.58506	49.34214	332.54068	19.10494	0.0806759	1.9038378200546
(282643)	16.3	230.88217	294.01479	358.48482	10.65986	0.1255073	2.5568130200531	(282695)	15.4	19.49675	69.37782	53.09418	10.66664	0.1282971	3.0901987200546
(282644)	15.7	53.79777	157.03719	198.66225	20.48235	0.1003006	3.1052474200531	(282696)	17.0	19.62325	65.59256	189.05174	3.23648	0.1552147	2.5371291200546
(282645)	17.1	219.34280	242.77542	16.46020	21.51653	0.0461088	1.8872243200531	(282697)	16.0	338.03382	111.66057	85.26714	4.79525	0.1835740	3.0286059200546
(282646)	15.5	39.85291	178.12009	209.22320	11.27070	0.2281542	3.0809336200532	(282698)	16.9	109.68991	26.30588	128.41406	6.06141	0.0462563	2.5791774200547
(282647)	17.1	267.52615	313.97955	75.15861	3.67641	0.2040866	2.2475895200532	(282699)	16.6	51.58898	61.79254	143.26255	10.81666	0.2589053	2.7207488200547
(282648)	17.2	349.29809	212.88671	128.26597	4.46478	0.2123858	2.1544018200533	(282700)	15.9	351.41430	216.55749	325.47293	8.27850	0.2031543	3.0548752200547
(282649)	17.8	38.06908	151.51643	114.11317	3.11953	0.1200056	2.2352859200533	(282701)	15.8	53.95600	105.61988	335.85026	15.56600	0.2396078	3.1173590200548
(282650)	17.0	115.66875	322.28640	201.32273	10.81203	0.0659463	2.3394031200533	(282702)	16.6	118.25471	19.43464	115.25103	9.52220	0.1350909	2.6048447200548

(282703)	17.2	56.49104	80.01033	172.87288	2.40689	0.1623704	2.4433113200548	(282755)	17.5	24.86263	45.85672	203.31242	2.73722	0.0504522	2.7599060200561
(282704)	16.3	18.92138	89.97397	130.11660	10.15606	0.0934510	2.7706608200548	(282756)	15.6	15.77420	52.88761	240.47538	12.27846	0.2450446	2.6951381200561
(282705)	16.5	285.24081	206.24795	156.35763	12.19008	0.0379166	2.5491468200549	(282757)	16.4	232.99960	260.00627	197.11621	5.22483	0.0988191	2.5463754200561
(282706)	16.4	8.62559	176.49123	158.06320	10.23172	0.2218129	2.4131966200549	(282758)	16.1	62.12010	26.26825	224.42478	13.90493	0.1159454	2.6692519200562
(282707)	16.4	343.00455	40.29043	259.07751	2.13582	0.1044129	2.5572149200549	(282759)	16.0	88.97541	337.51338	200.51020	13.28117	0.0897391	2.7530417200562
(282708)	17.1	25.19855	99.28840	151.82257	8.45785	0.1173628	2.6172594200549	(282760)	16.3	94.82094	299.30835	214.83325	7.39398	0.1837801	2.7291747200562
(282709)	17.0	38.07977	109.33897	131.03754	9.53157	0.1307726	2.5826042200550	(282761)	15.9	260.33422	201.82276	190.57256	10.37404	0.1606103	2.6035448200562
(282710)	16.1	86.88762	304.69945	108.07500	2.85768	0.1171626	3.1504172200550	(282762)	17.9	149.16306	235.97427	47.79320	2.89370	0.1782167	2.2469796200563
(282711)	13.9	30.87283	96.11402	188.95768	4.34996	0.0561193	5.2159094200550	(282763)	16.5	295.31942	112.25997	227.85144	5.36640	0.0256397	2.8127883200563
(282712)	16.6	242.82086	223.73003	171.74010	4.62091	0.0893824	2.5437634200550	(282764)	15.9	9.15289	41.62968	195.87104	11.78926	0.0245702	2.9508974200563
(282713)	17.0	63.80486	127.32646	108.55018	7.01184	0.0960782	2.4760377200550	(282765)	16.3	338.70088	77.36137	219.30782	9.15722	0.0561553	2.8306988200563
(282714)	17.2	46.94543	12.06608	90.35298	2.75121	0.1608322	3.0311568200551	(282766)	16.8	40.23428	57.03885	218.31548	4.98474	0.0793135	2.6575706200563
(282715)	17.0	1.76386	195.07186	118.85704	4.12148	0.1700050	2.4521875200551	(282767)	16.3	10.25108	92.98303	178.51799	14.71171	0.1168244	2.8440748200564
(282716)	16.7	335.67171	226.24741	90.87058	3.71333	0.1963797	2.5412951200551	(282768)	15.6	334.12070	345.68328	251.20750	11.87344	0.1326113	3.1194854200564
(282717)	15.7	297.31040	236.12189	342.55178	9.62672	0.0578712	3.1835892200551	(282769)	16.3	158.78661	280.37754	185.03802	8.91299	0.1232987	2.7614937200564
(282718)	16.9	2.49368	179.95057	137.46676	2.74859	0.1997462	2.4691612200552	(282770)	16.8	38.40491	146.51738	124.09529	5.92219	0.1319610	2.7075466200564
(282719)	17.0	187.77572	257.12622	234.68522	4.87023	0.0915627	2.4083340200552	(282771)	15.9	53.57264	354.10829	259.84787	10.83765	0.1357393	2.6683187200565
(282720)	16.7	156.42547	310.97902	150.80894	8.54680	0.0752987	2.5587795200552	(282772)	16.4	2.16710	101.16077	214.30516	11.93364	0.1743659	2.6796744200565
(282721)	17.2	51.91913	129.00059	164.55931	5.17605	0.2339889	2.4200765200552	(282773)	16.9	47.10493	146.33954	134.22796	4.63536	0.1449213	2.5856317200565
(282722)	16.9	358.67593	224.22484	59.79693	3.14113	0.1414542	2.5760881200553	(282774)	15.6	139.63406	18.83894	134.27724	14.60865	0.1981135	2.6182558200565
(282723)	16.7	110.47113	342.81059	169.59829	9.65627	0.1224661	2.6788339200553	(282775)	15.9	101.16124	37.39436	161.30942	13.43706	0.1171723	2.6395064200566
(282724)	17.2	43.48741	77.60565	173.74146	4.58193	0.1633850	2.6314667200553	(282776)	14.9	349.02810	252.68032	86.17068	25.44372	0.1803788	2.7197644200566
(282725)	15.7	42.96531	346.55887	111.25384	16.14811	0.3366393	3.0881403200553	(282777)	17.6	138.84280	188.12748	108.90488	3.38615	0.1769322	2.3139551200566
(282726)	16.5	278.78553	183.56632	179.02240	12.12962	0.1894760	2.5990486200554	(282778)	15.9	358.09646	173.08612	158.20268	12.31040	0.1781314	2.6343592200567
(282727)	16.3	79.09452	25.16087	164.29071	14.97426	0.0187731	2.6360191200554	(282779)	15.4	48.39463	330.62096	183.84971	16.03104	0.0228374	3.1607374200567
(282728)	17.2	47.99978	93.28316	122.89041	4.04642	0.1061052	2.6752857200554	(282780)	16.0	291.60053	219.23854	145.17515	14.48577	0.1136185	2.7205903200567
(282729)	17.5	91.05826	38.85616	128.77004	2.42282	0.0373665	2.6573437200554	(282781)	15.8	7.76092	139.21152	160.04051	12.13186	0.1856818	2.6995293200567
(282730)	16.7	5.01944	146.32939	154.71565	5.10816	0.2358587	2.6309732200554	(282782)	16.5	245.49844	226.63683	183.89407	14.93816	0.1236428	2.6781373200568
(282731)	16.3	71.54030	80.66293	77.53580	10.39889	0.1877764	2.7453248200555	(282783)	16.0	4.68578	170.21215	138.95448	13.67967	0.1383952	2.6775660200568
(282732)	16.2	16.48155	121.00812	141.56203	12.06266	0.1689134	2.5963196200555	(282784)	15.5	202.38343	217.65719	144.80334	11.36887	0.1121321	3.2132523200568
(282733)	16.4	224.19547	268.06702	144.90186	10.70249	0.0470662	2.5928945200555	(282785)	15.7	290.17163	259.49650	86.96824	10.14733	0.0548281	2.8712068200568
(282734)	16.3	69.10947	121.77522	105.84240	13.02758	0.1362879	2.5770900200555	(282786)	16.0	317.57569	136.28363	137.36940	3.60230	0.0442019	3.0931441200568
(282735)	16.5	124.15734	51.83175	117.70279	15.09417	0.1113450	2.5314305200556	(282787)	16.1	59.97183	3.06627	214.61499	17.82824	0.0654200	2.8553304200569
(282736)	16.2	37.32567	312.17406	324.96260	14.89582	0.2932148	2.6384845200556	(282788)	16.2	191.45109	349.41450	129.84909	11.16290	0.0316450	2.6087861200569
(282737)	16.1	98.83607	329.67979	204.17682	24.47141	0.0949386	2.6500814200556	(282789)	17.1	247.87134	252.74680	94.74760	23.31035	0.1106043	1.9291678200569
(282738)	16.8	13.24945	101.70626	186.80409	4.66005	0.1976711	2.6156741200556	(282790)	17.2	108.11204	343.28377	10.71653	10.95013	0.2208071	2.3887930200569
(282739)	14.6	3.35135	256.39539	243.13588	24.44810	0.2031287	3.1600286200557	(282791)	16.0	347.71686	99.07242	192.50991	15.33659	0.0849247	3.0577833200570
(282740)	15.7	357.23963	157.18447	122.75181	13.11282	0.0824970	2.8584952200557	(282792)	15.4	6.40920	304.52680	345.30659	16.69350	0.3058469	3.1029955200570
(282741)	16.1	351.35617	207.70911	114.88294	15.45743	0.0425347	2.6941703200557	(282793)	16.5	323.47713	184.60788	147.62579	5.08942	0.2760611	3.0867671200570
(282742)	16.5	29.11560	85.80144	156.81633	6.38914	0.0698895	2.6783904200557	(282794)	15.6	283.12803	275.53532	131.15009	16.50059	0.2592544	3.0884167200571
(282743)	16.5	308.75284	141.42901	178.30685	9.41906	0.1709541	2.7169086200558	(282795)	16.4	108.04399	131.53285	241.39861	3.13542	0.3037778	2.3975545200571
(282744)	16.1	126.97990	4.60783	127.98522	29.73893	0.1326983	2.6307872200558	(282796)	15.6	334.46905	161.19581	142.43614	11.82035	0.0749883	3.1365088200571
(282745)	15.9	275.89916	199.35597	196.59584	13.37065	0.2746319	2.5547602200558	(282797)	17.2	295.67818	157.93687	207.74243	20.68689	0.0981062	1.9208783200572
(282746)	16.9	264.35311	171.70046	191.91693	6.08055	0.0062700	2.7700691200558	(282798)	16.0	9.16147	168.55781	139.53645	16.27610	0.1283375	2.9673331200572
(282747)	15.6	344.42109	63.72188	130.85425	14.85662	0.2433166	3.1602448200559	(282799)	15.8	329.78036	220.61345	144.95521	9.01188	0.3125406	3.0495003200572
(282748)	16.2	316.28445	209.82807	127.59747	15.53180	0.1561278	2.6582018200559	(282800)	17.1	122.02206	7.06303	322.64891	1.97645	0.1047531	2.4027350200573
(282749)	16.6	78.79497	339.50802	192.59758	13.19943	0.1010414	2.7843740200559	(282801)	15.7	313.11054	177.35805	163.91390	17.81029	0.2067647	3.1323014200573
(282750)	16.2	46.15761	135.41818	116.23346	11.62709	0.1923663	2.6737094200559	(282802)	17.6	99.13851	252.20165	143.49065	1.09249	0.2063035	2.3236625200573
(282751)	16.0	25.58335	152.22183	97.82621	14.72585	0.1609342	2.7783394200560	(282803)	15.2	309.26512	127.23243	217.55133	19.82420	0.2305511	3.2251885200573
(282752)	15.9	24.66348	127.44002	141.15561	16.00293	0.2349992	2.7118823200560	(282804)	15.2	289.91053	111.20699	279.77209	7.68011	0.0573897	3.0763656200574
(282753)	16.2	28.73425	34.30165	227.59834	8.85618	0.2928749	2.7812919200560	(282805)	15.3	271.93422	141.66482	275.25972	9.64562	0.1267491	2.9692442200574
(282754)	16.0	325.21285	144.13951	185.00408	10.93018	0.1793985	2.7529621200560	(282806)	15.6	336.86139	31.67029	306.75602	8.73386	0.0892230	3.0887910200574

(282807)	16.3	358.82954	155.22091	154.65269	2.58152	0.2356336	3.0733659200574	(282859)	17.1	120.63479	295.03122	142.67469	7.80925	0.1517426	2.4216893200588
(282808)	16.1	349.39552	199.01887	157.99569	9.71242	0.0794155	2.9629301200575	(282860)	17.8	80.90566	32.50137	141.42222	5.00009	0.1753576	2.3028340200589
(282809)	15.3	34.57731	326.37801	309.06805	14.91335	0.0535985	3.1277121200575	(282861)	16.6	265.68357	260.51147	357.58076	5.69733	0.0220211	2.7285057200589
(282810)	14.8	359.85445	24.90645	293.29123	10.03455	0.0770071	3.0658161200575	(282862)	18.0	26.49950	125.05776	156.45460	3.90034	0.1440772	2.2137176200589
(282811)	15.8	25.59174	48.73080	288.37969	4.99185	0.0683365	2.8688492200575	(282863)	17.6	11.01559	143.44399	152.64324	5.68383	0.1366826	2.2258218200589
(282812)	16.0	345.22360	118.91039	198.76800	15.93651	0.3018747	3.1606401200576	(282864)	17.2	34.53183	108.47345	126.66134	6.06455	0.1143856	2.3001989200589
(282813)	15.7	310.06127	88.66225	289.18212	9.52662	0.1883897	3.0951305200576	(282865)	17.4	45.80588	36.80271	185.79984	2.59515	0.1835918	2.3647103200590
(282814)	15.6	329.50406	116.67227	208.82348	10.00623	0.1483364	3.2103935200576	(282866)	15.6	42.10638	219.18318	194.58111	4.81892	0.1636123	3.1077700200590
(282815)	16.2	345.06244	162.57875	172.84832	10.30031	0.0640561	3.0745908200577	(282867)	16.0	43.58616	88.62249	8.17596	25.30645	0.3588773	2.6629985200590
(282816)	16.1	346.97491	154.45843	176.77112	9.20788	0.0872868	3.1414596200577	(282868)	16.5	306.38317	268.51228	333.35048	11.83182	0.2301157	2.6852502200591
(282817)	16.6	356.06888	123.60745	190.39354	9.65736	0.2203607	3.1552291200577	(282869)	17.8	57.73550	36.83814	172.85780	0.97881	0.1350101	2.3510318200591
(282818)	17.0	53.70483	218.69243	193.64217	17.55249	0.1768646	2.5494317200577	(282870)	17.3	343.75963	185.49693	125.93467	4.16769	0.1789160	2.2064914200591
(282819)	15.0	330.92882	242.74273	101.96001	12.44587	0.1511815	3.1234623200578	(282871)	17.7	26.77801	69.29568	176.24393	6.42127	0.0681844	2.3540683200591
(282820)	16.0	354.71574	94.47714	204.83326	25.73061	0.1939314	3.1744425200578	(282872)	17.3	321.28046	221.68707	112.02312	3.88831	0.1493387	2.2595204200592
(282821)	17.2	11.94799	80.67066	206.11862	20.75142	0.0707596	1.9312404200578	(282873)	17.1	8.11999	222.43327	104.04199	3.65626	0.2374916	2.1821186200592
(282822)	17.7	63.84147	198.66167	193.71236	3.40217	0.2095480	2.5542677200578	(282874)	17.1	87.91775	53.49695	148.07955	2.56440	0.1516593	2.2778402200592
(282823)	16.7	12.75278	189.79115	147.93390	2.51199	0.1285925	2.9471869200579	(282875)	17.1	105.05618	356.72474	133.08095	4.83180	0.1759592	2.3804106200592
(282824)	15.6	294.70429	198.05050	176.68185	8.51898	0.0465199	3.2044852200579	(282876)	16.9	28.14296	104.79088	125.05438	4.67281	0.0680433	2.4085539200593
(282825)	15.9	23.27789	62.01089	217.23684	3.28713	0.1402882	3.2285616200579	(282877)	17.1	350.87628	171.65654	12.01328	4.79342	0.0514739	2.7154707200593
(282826)	16.7	108.59998	145.20185	188.46481	8.52971	0.1764762	2.5660067200579	(282878)	17.6	54.80318	117.84150	92.13905	3.19382	0.1692865	2.4060165200593
(282827)	15.6	339.57229	244.77406	122.27292	19.59946	0.3618274	3.0724808200580	(282879)	17.9	26.27194	79.97494	168.46214	2.68264	0.1528566	2.3613280200593
(282828)	16.1	7.00795	183.86423	119.09720	2.16744	0.1512741	3.1995020200580	(282880)	17.3	28.77725	161.61352	106.59532	3.12604	0.2213708	2.3625141200593
(282829)	17.2	77.54419	170.39088	213.59686	8.22249	0.1680037	2.5689981200580	(282881)	17.0	15.30877	107.11719	158.93841	5.93171	0.0764863	2.2367264200594
(282830)	16.0	349.20585	46.72139	288.17379	11.69716	0.2068172	3.1255803200581	(282882)	18.3	29.74431	66.52051	177.21079	2.83486	0.1456702	2.2927151200594
(282831)	17.3	77.92364	231.70588	145.27192	4.96001	0.1743950	2.5411237200581	(282883)	17.2	58.64481	359.38286	208.41494	10.77076	0.1720908	2.3932735200594
(282832)	15.5	18.67840	23.98158	287.37048	9.94228	0.1363896	3.0611740200581	(282884)	17.1	34.02032	110.76305	151.96960	2.48528	0.1712504	2.3609858200594
(282833)	15.3	320.60246	264.64926	109.54577	26.72026	0.2216144	3.1234996200581	(282885)	17.5	45.54215	37.21462	185.05421	6.52994	0.0763028	2.4109793200595
(282834)	14.9	350.20650	272.95952	56.12790	15.16648	0.2476300	3.1930773200581	(282886)	17.4	4.35107	65.42963	209.30015	3.87859	0.0878371	2.3737979200595
(282835)	16.1	352.45585	162.43935	166.00477	4.80195	0.1147478	3.2357185200582	(282887)	17.4	218.28240	229.94570	188.96240	6.91827	0.0492610	2.3332190200595
(282836)	16.7	202.41998	47.38994	211.62265	12.80545	0.0320588	2.535553200582	(282888)	17.7	88.85019	347.41338	186.52399	4.22155	0.0955682	2.3107642200595
(282837)	15.5	10.58844	64.23167	233.60272	10.49587	0.0680324	3.1492095200582	(282889)	17.6	65.32950	153.96367	30.35623	1.95524	0.1355513	2.4220981200595
(282838)	15.9	333.93793	116.84423	233.14318	10.73489	0.1546919	3.2080836200582	(282890)	17.5	356.40070	102.49235	190.34473	5.86882	0.1403691	2.3583461200596
(282839)	15.5	2.73324	32.32066	297.68775	9.26290	0.1957863	3.0599297200583	(282891)	17.7	358.74342	116.74075	196.89365	4.12105	0.1742502	2.2813840200596
(282840)	16.8	49.18454	252.17910	179.25015	3.07630	0.1363032	2.5614831200583	(282892)	17.6	97.10540	52.79865	153.89281	5.72524	0.0276115	2.2269233200596
(282841)	16.4	4.13885	82.60886	251.64027	9.07063	0.1298692	2.9746176200583	(282893)	17.3	339.56910	29.90483	235.11486	1.86032	0.1755046	2.6022519200596
(282842)	16.2	67.69191	65.04628	320.29914	6.55194	0.2064573	2.6081479200584	(282894)	17.4	27.21076	92.12917	185.60168	2.16434	0.1797502	2.3702906200597
(282843)	15.4	337.73971	98.89090	223.08887	24.64754	0.1907875	3.2332129200584	(282895)	15.7	49.60735	31.98464	94.07808	19.53028	0.0649727	2.7436261200597
(282844)	16.0	15.61385	256.54544	247.70666	20.29111	0.1829338	2.4054406200584	(282896)	17.6	3.60724	123.71269	148.54277	4.75288	0.1307946	2.4381130200597
(282845)	15.8	205.06987	191.12627	283.69275	9.23966	0.0568185	3.0593736200584	(282897)	17.4	21.28651	200.86657	81.47682	2.63034	0.1306825	2.3712340200597
(282846)	16.0	221.74648	168.71926	280.98776	22.36188	0.0364301	1.9882012200585	(282898)	17.0	16.47517	62.18045	202.13063	5.96358	0.0984567	2.3979178200598
(282847)	16.4	351.43526	236.57643	257.16086	3.71640	0.1078867	2.5910757200585	(282899)	17.0	327.69552	194.43948	68.41775	4.89669	0.1869303	2.6427840200598
(282848)	15.7	7.25876	315.95465	35.97029	1.45980	0.2132725	3.0480468200585	(282900)	15.4	12.92595	333.08784	221.59019	14.09596	0.1237711	2.6651257200598
(282849)	16.4	345.23360	239.98734	141.99971	1.22993	0.2494076	3.0533848200586	(282901)	15.6	342.41819	71.46108	199.70664	28.84158	0.3409780	2.6298892200598
(282850)	15.5	323.16003	92.39577	295.56584	6.24897	0.0737526	3.2287743200586	(282902)	17.8	48.13187	300.46795	279.04528	0.52294	0.1409925	2.4315350200599
(282851)	16.3	333.49907	117.02941	253.93007	19.67920	0.0954963	1.8990821200586	(282903)	17.1	83.87203	105.78375	120.24745	6.85543	0.0571766	2.3024404200599
(282852)	16.9	310.22724	166.00997	111.25616	7.62690	0.0955422	2.3263516200587	(282904)	17.3	45.20302	40.66818	205.65074	5.47798	0.1788631	2.4001876200599
(282853)	17.6	302.65441	117.74432	229.61627	1.51669	0.1523282	2.1260957200587	(282905)	17.2	76.87435	36.75408	154.30147	3.14040	0.0356648	2.4432213200600
(282854)	17.9	54.82697	184.60104	17.63851	2.08753	0.1353190	2.2994284200587	(282906)	16.9	126.77609	31.55117	103.85147	6.86051	0.0491414	2.4296865200600
(282855)	17.0	337.56997	231.57838	331.05983	3.98721	0.1411009	2.5555186200587	(282907)	16.7	13.73711	169.77998	128.32297	11.94381	0.2680211	2.4184793200600
(282856)	16.4	48.44616	15.35136	137.09719	6.99502	0.0759618	2.4657804200587	(282908)	17.0	89.95575	331.82954	211.65113	5.85178	0.0432172	2.3875203200600
(282857)	17.7	77.15064	102.42993	90.67510	3.40243	0.0980148	2.2749563200588	(282909)	17.1	351.59863	176.95310	110.90283	5.12882	0.0769195	2.3948887200600
(282858)	17.6	2.80255	73.23854	119.09385	5.65064	0.1501741	2.5346331200588	(282910)	16.7	16.66629	200.77930	92.73688	8.06981	0.1126542	2.3601963200601

(282911)	16.2	356.43081	85.72908	122.57076	6.26077	0.0976604	2.7301653200601	(282963)	16.0	27.84582	147.56704	123.68576	15.46570	0.2136727	2.6444692200615
(282912)	17.2	21.86726	111.38432	145.54291	6.92255	0.1158071	2.4634744200601	(282964)	15.1	235.80251	150.94510	296.33103	21.23793	0.0500956	2.6676214200615
(282913)	15.6	330.67540	175.09251	74.83164	13.40643	0.2570355	2.7728921200601	(282965)	16.7	353.53416	165.84483	151.10740	10.35068	0.2634742	2.6718156200616
(282914)	17.3	346.11314	222.02705	125.63062	3.24100	0.2460933	2.3649087200602	(282966)	16.6	318.59978	158.52908	175.74926	17.40941	0.1251714	2.7264697200616
(282915)	16.2	16.80870	152.95988	89.55107	13.18649	0.2930703	2.6271520200602	(282967)	16.6	349.83170	134.51572	154.78659	20.91446	0.1933925	2.7784888200616
(282916)	17.3	45.48875	44.82538	212.40106	2.10485	0.1687305	2.3857651200602	(282968)	16.6	340.54336	216.58853	128.07921	16.62520	0.1953678	2.6059123200616
(282917)	16.5	15.28525	52.45576	284.64602	7.56518	0.3328435	2.4311729200602	(282969)	15.4	356.08048	243.05569	352.84294	15.85739	0.1895770	3.1394539200617
(282918)	16.1	331.58171	219.16104	99.72057	13.08340	0.1892241	2.6107776200603	(282970)	15.9	235.46155	230.69546	177.82598	11.03123	0.0202273	3.0382743200617
(282919)	16.0	313.33159	241.76330	102.94768	17.61996	0.2457318	2.6660041200603	(282971)	16.8	4.12385	3.99238	300.60891	5.69283	0.1944321	2.6546667200617
(282920)	16.6	26.26270	347.73241	345.90203	6.31233	0.1317026	2.3934156200603	(282972)	16.0	344.26747	259.05214	78.92217	13.65694	0.1801703	2.7803326200617
(282921)	16.4	39.05221	162.24793	110.21969	7.48368	0.1354561	2.5509310200604	(282973)	17.1	357.12395	127.19525	205.82081	2.34051	0.2585564	2.6305740200617
(282922)	16.4	356.71001	180.72718	132.57108	9.31964	0.1332255	2.5754598200604	(282974)	16.2	326.86970	100.93087	223.39794	13.91673	0.2018545	2.8105892200618
(282923)	16.4	324.04359	227.36608	133.40999	16.90038	0.1956594	2.5856726200604	(282975)	15.1	250.15866	143.17619	251.27247	9.95091	0.1680591	3.1056012200618
(282924)	17.2	24.35628	347.08218	343.45935	7.96308	0.2186097	2.4163786200604	(282976)	16.4	17.86462	91.03728	200.21679	2.80417	0.1451920	2.7697237200618
(282925)	16.1	336.43668	196.00956	139.84025	9.03821	0.1166666	2.6570713200605	(282977)	15.9	266.82926	171.30738	200.86293	9.97151	0.1025676	3.1602403200619
(282926)	16.8	346.66729	77.21090	306.81447	6.68683	0.1179650	2.3741224200605	(282978)	16.7	315.84941	163.26940	210.53193	8.07169	0.2053518	2.7823349200619
(282927)	16.6	359.37217	86.46063	279.99679	5.45133	0.1871378	2.4307825200605	(282979)	16.3	331.70712	143.61769	250.25719	6.73485	0.1956574	2.6106410200619
(282928)	15.2	343.97139	331.70054	319.08681	12.92219	0.1842395	2.7752124200606	(282980)	16.4	9.60760	6.41611	299.53031	0.98384	0.0542314	2.8603945200620
(282929)	15.5	353.55399	355.73925	287.20549	13.26315	0.2271752	2.6723514200606	(282981)	15.6	295.95037	219.02823	117.77592	16.18952	0.0727518	3.1008633200620
(282930)	15.9	337.30134	169.09464	142.95011	10.42562	0.1655924	2.7477686200606	(282982)	16.2	257.48435	262.89828	120.79089	3.24994	0.1423832	3.0799182200620
(282931)	16.4	359.99167	180.85346	154.31900	7.62787	0.1789199	2.4751731200606	(282983)	15.9	287.74499	200.48486	208.49638	13.05034	0.1729069	2.6878204200620
(282932)	16.3	317.90025	193.84094	152.09776	9.63713	0.2911444	2.6940922200607	(282984)	16.6	354.67300	95.09212	229.50234	3.79900	0.1718836	2.6903522200621
(282933)	15.4	278.29860	186.16337	209.43897	14.05498	0.3194582	2.7891579200607	(282985)	15.9	350.48978	191.56407	96.07825	2.53041	0.2031838	2.9863163200621
(282934)	15.6	320.02927	260.37728	125.43158	29.58657	0.3270795	2.6422237200607	(282986)	16.0	1.14723	16.67858	301.30177	13.69845	0.1671150	2.6464807200621
(282935)	16.9	359.28534	125.91158	195.90960	0.20030	0.1298793	2.5271733200608	(282987)	16.6	11.17404	34.39379	295.03542	3.61924	0.2598070	2.5676856200621
(282936)	15.3	221.79657	266.90236	148.16975	9.44868	0.0912416	2.9857606200608	(282988)	15.3	280.34136	138.59114	218.86639	12.98821	0.1088885	3.0773551200622
(282937)	15.9	170.71329	253.06561	181.22486	10.64219	0.0186578	3.1980199200608	(282989)	16.1	357.76243	214.15420	135.95216	6.16876	0.3434845	2.5891744200622
(282938)	16.4	289.20884	193.44622	182.96944	13.05409	0.1946548	2.7773970200608	(282990)	16.0	351.17055	93.91899	186.33650	6.91995	0.1262748	3.0923235200622
(282939)	16.6	358.89229	160.09165	162.16644	14.33007	0.1816370	2.6209213200609	(282991)	15.9	301.40675	93.59667	336.82341	12.71801	0.1444708	2.5836685200623
(282940)	16.0	299.07318	115.56378	218.16481	7.93940	0.0586517	2.9308053200609	(282992)	16.7	342.83886	328.65461	359.68003	13.00381	0.2332979	2.7323300200623
(282941)	15.2	275.71153	136.41068	266.66145	21.06703	0.0881773	2.6680939200609	(282993)	16.2	0.85372	19.97999	342.66872	10.39108	0.1653300	2.6026913200623
(282942)	15.9	212.09487	264.69866	155.00065	5.88404	0.1364797	3.1105319200609	(282994)	16.5	318.05255	112.47657	258.05379	7.36244	0.1946787	2.7458499200623
(282943)	17.6	353.59426	58.62211	238.06200	3.29209	0.2463480	2.6356161200610	(282995)	16.4	311.32564	97.42174	227.79922	0.99708	0.0794749	2.9510680200624
(282944)	16.3	253.55617	174.19141	238.14956	5.77235	0.0187142	2.7880226200610	(282996)	16.7	343.12432	127.48831	194.88618	11.64280	0.1834084	2.7754039200624
(282945)	16.6	1.11702	111.67342	206.06474	6.51770	0.1922935	2.6254501200610	(282997)	16.1	282.76576	283.92552	74.61219	4.55549	0.1523342	3.1126479200624
(282946)	16.3	194.60298	284.90170	137.10758	2.06062	0.1603037	3.1614014200610	(282998)	15.0	278.45555	124.00352	250.94868	15.93706	0.1968217	3.0507980200624
(282947)	16.6	259.25146	223.53224	190.83671	2.93425	0.0979189	2.7070447200611	(282999)	15.9	282.48949	230.62424	125.52326	1.96144	0.1635524	3.0997880200625
(282948)	16.1	344.91327	82.32485	215.51240	6.90538	0.2079479	2.7761051200611	(283000)	15.5	321.00758	177.66404	136.57349	10.56289	0.1071545	3.0135913200625
(282949)	15.7	152.20267	301.29058	177.95791	10.33322	0.0646675	3.1107213200611	(283001)	16.5	330.53293	229.54135	116.11448	8.66439	0.1368039	2.7541616200625
(282950)	16.2	302.88593	199.54754	163.23072	12.35462	0.2207264	2.8096385200611	(283002)	16.2	326.71301	97.81908	206.94450	4.48761	0.1032229	3.0877213200626
(282951)	16.1	328.71802	171.65765	189.48379	14.47000	0.2926192	2.6451478200612	(283003)	16.5	292.35389	159.03193	187.85573	3.82054	0.1222318	3.0232945200626
(282952)	15.9	29.71485	24.30554	257.60708	11.72704	0.1677430	2.6212834200612	(283004)	15.5	87.77750	333.41950	239.91824	13.32075	0.0379787	2.9936421200626
(282953)	16.6	336.60292	16.76869	332.57660	2.85023	0.1731820	2.6708594200612	(283005)	16.0	346.91312	58.67692	267.88938	13.36053	0.1757034	2.6930904200626
(282954)	16.5	358.87086	127.61426	191.74690	12.78494	0.0945126	2.7080511200613	(283006)	16.4	318.57041	186.78716	186.95739	13.33917	0.1514970	2.7670340200626
(282955)	16.0	284.29761	159.36598	201.96582	10.29811	0.0717710	3.0181602200613	(283007)	17.9	148.01728	28.35625	259.29873	1.72243	0.1748859	2.1923339200627
(282956)	16.0	350.83656	113.29423	231.02139	13.19508	0.1329964	2.6556870200613	(283008)	16.4	317.44021	175.46048	206.08928	7.95667	0.2028025	2.7503077200627
(282957)	15.3	247.63244	211.37012	186.32181	17.41057	0.2352906	3.0938701200614	(283009)	16.8	335.31317	188.56223	183.72000	6.15879	0.3332133	2.6672024200627
(282958)	17.2	44.68331	61.12588	174.35286	13.93684	0.2723625	2.6047939200614	(283010)	16.6	353.91728	118.46247	228.53086	8.25299	0.1601306	2.7088848200628
(282959)	17.5	8.83683	105.99925	160.27034	9.87567	0.2730278	2.7319442200614	(283011)	15.4	261.91514	352.06734	67.61223	11.70143	0.0932820	2.9893964200628
(282960)	15.8	97.19639	12.44781	165.41871	11.28147	0.0234475	3.0691450200614	(283012)	14.9	276.08575	121.09666	270.19193	11.61040	0.0511394	3.0734074200628
(282961)	17.1	359.10488	194.95813	168.14421	2.64549	0.1909902	2.4368430200615	(283013)	16.2	282.27985	129.86666	259.19048	7.37003	0.0332292	3.0023312200628
(282962)	16.8	338.86268	133.63872	211.42153	5.49624	0.0255346	2.7266357200615	(283014)	16.2	353.18449	17.03844	7.12175	6.40389	0.2016554	2.5747119200629

(283015)	18.3	106.95119	17.36375	331.11294	1.74432	0.1979322	2.1720262200629	(283067)	18.4	330.46647	183.84847	151.79122	1.88844	0.2390807	2.2410159200642
(283016)	15.8	2.78610	74.48891	244.51058	8.50533	0.1749272	2.8780847200629	(283068)	15.9	24.70568	30.79288	229.76241	16.44314	0.1915478	2.6122128200643
(283017)	15.3	225.08048	174.79573	269.63535	9.17969	0.0917729	3.1074996200630	(283069)	17.6	123.63244	304.76673	229.56448	2.68122	0.0697623	2.3911024200643
(283018)	16.6	86.79407	300.80942	324.00276	3.46945	0.0242586	2.7455170200630	(283070)	16.9	281.76506	261.34167	103.12245	6.72733	0.1046300	2.3894078200643
(283019)	16.2	255.32938	187.32230	287.44132	11.86335	0.1159912	2.6802313200630	(283071)	17.6	352.74693	115.62281	169.72930	7.54904	0.0475818	2.2991416200643
(283020)	17.5	68.24268	145.10666	289.04705	4.83131	0.1608719	2.2181463200630	(283072)	17.0	356.10588	174.64395	123.31248	4.97980	0.1901786	2.2104671200643
(283021)	15.6	317.72232	201.20052	131.38369	14.05777	0.1080323	3.0344073200631	(283073)	17.6	312.52252	98.52853	238.43941	5.72451	0.1245504	2.3094506200644
(283022)	15.0	251.26912	162.12642	239.84469	27.01088	0.1811843	3.2034117200631	(283074)	16.9	306.37868	98.71647	197.07278	11.44839	0.1615932	2.6460266200644
(283023)	15.2	208.32033	199.18091	260.20753	10.46948	0.1091241	3.0870589200631	(283075)	15.3	107.64491	84.40395	27.11009	9.60366	0.0575341	3.1551943200644
(283024)	15.4	248.63838	144.07761	293.44993	9.42343	0.1204783	2.9683639200632	(283076)	16.8	334.35953	309.30419	43.80695	8.96675	0.1781615	2.2115903200644
(283025)	15.3	284.30190	122.49552	239.84033	14.45699	0.2016099	3.1785407200632	(283077)	17.5	343.32771	103.57220	240.11153	5.81154	0.2047101	2.2037011200645
(283026)	15.0	65.39217	5.96177	239.48364	17.33385	0.0852211	3.1145364200632	(283078)	17.5	339.84937	160.58895	157.27840	5.50783	0.1885563	2.2948928200645
(283027)	15.5	285.63926	239.09212	136.19498	15.39793	0.1661686	3.0542339200632	(283079)	16.8	231.75940	203.56203	188.06194	4.67659	0.0181197	2.7025008200645
(283028)	17.5	106.30375	254.52464	107.97036	5.45761	0.1605056	2.1763464200633	(283080)	17.7	357.80998	130.98244	157.34196	6.31806	0.1149954	2.3736322200646
(283029)	16.0	3.82185	79.03474	231.05488	9.39651	0.0932610	2.9684077200633	(283081)	17.5	352.21711	101.68766	236.41797	5.47212	0.1651616	2.2000675200646
(283030)	15.6	0.37615	45.45249	268.56380	8.98865	0.0898605	2.9648141200633	(283082)	15.2	148.86183	276.69220	193.54832	12.72541	0.1310750	3.0894007200646
(283031)	16.2	10.26528	96.46544	230.51492	7.50646	0.1771075	2.7890544200633	(283083)	17.0	290.10023	108.84268	236.34158	5.49896	0.0362484	2.7240636200646
(283032)	15.7	59.04937	24.23726	225.98657	7.62340	0.0844779	3.1633954200633	(283084)	18.2	313.59650	335.04721	38.63871	3.25681	0.1768418	2.2663589200647
(283033)	14.8	318.79374	72.51687	279.05013	15.05501	0.0885663	3.0099842200634	(283085)	17.3	27.08425	236.32323	34.08178	1.80789	0.1639455	2.4167515200647
(283034)	15.3	17.49833	27.40668	255.61626	19.33874	0.1060925	3.1375271200634	(283086)	17.0	290.81192	298.15548	31.67876	6.11996	0.0414673	2.7362715200647
(283035)	15.5	262.65978	301.01209	115.53446	10.74139	0.1350228	3.0650145200634	(283087)	17.4	24.66641	105.00525	174.18561	0.65936	0.1243406	2.3442955200647
(283036)	15.9	345.52179	188.83496	155.85303	15.69134	0.2065636	2.7870959200634	(283088)	17.0	3.35585	357.51043	336.83277	6.06705	0.1962137	2.1892328200648
(283037)	15.8	300.49060	284.48582	125.28895	22.34186	0.2822456	3.0503415200635	(283089)	16.4	217.29891	175.60594	237.73565	4.49947	0.0382180	2.6836647200648
(283038)	16.1	300.33909	257.93691	164.55298	11.20381	0.0740666	3.0697009200635	(283090)	17.6	296.49702	226.44696	137.93809	6.93841	0.1227005	2.3821002200648
(283039)	17.4	61.88542	134.47928	293.64644	4.96449	0.1277696	2.2897235200635	(283091)	16.1	313.77206	243.50050	78.91782	6.08750	0.0431320	2.6246109200648
(283040)	16.2	109.04477	192.23892	140.42538	8.61453	0.1020819	2.6112175200635	(283092)	16.8	283.98587	116.27532	239.64250	4.66636	0.0705219	2.6829851200649
(283041)	17.2	302.55541	221.25978	113.71579	24.45042	0.0511617	1.8716442200636	(283093)	16.0	71.81380	325.99909	255.98313	10.81997	0.2235125	2.5831577200649
(283042)	16.8	270.19537	236.21844	124.75445	24.30099	0.0840321	1.9112556200636	(283094)	16.8	331.45103	139.10143	122.63092	3.06594	0.0206083	2.8688219200649
(283043)	17.4	54.96209	148.33787	330.37277	5.05319	0.0971338	2.2322914200636	(283095)	16.1	195.81394	225.52617	210.14345	4.92965	0.1033345	2.7707212200649
(283044)	15.9	175.42400	358.03602	342.27320	8.08432	0.0545946	2.4236546200636	(283096)	16.6	328.10451	111.94113	212.52153	3.84605	0.1586001	2.545563200650
(283045)	17.8	77.14555	61.97467	13.67952	1.63259	0.2112464	2.3268380200637	(283097)	17.2	355.71638	80.39739	228.99336	8.90538	0.0981826	2.3956201200650
(283046)	15.5	50.99650	85.50477	280.52157	8.11859	0.0388206	2.9081858200637	(283098)	16.5	357.77265	64.38684	217.71478	9.44501	0.1121396	2.5785976200650
(283047)	16.9	274.99696	239.10792	127.20912	22.64308	0.1001554	1.8886208200637	(283099)	17.1	307.60795	144.19433	218.15564	12.15507	0.2183693	2.3640312200650
(283048)	17.2	358.32450	90.76240	94.79993	7.38004	0.1340073	2.3022505200637	(283100)	15.4	243.36483	154.98044	244.71175	26.14209	0.0998323	2.7257585200650
(283049)	17.5	44.14152	236.71522	211.14015	3.94482	0.1557755	2.4434499200638	(283101)	16.9	333.38175	59.89903	293.14629	4.77860	0.1649013	2.2220466200651
(283050)	15.6	114.52593	285.95484	43.61898	12.23926	0.1693116	3.0457222200638	(283102)	15.7	208.94723	197.80556	224.46421	8.78556	0.1120972	2.7036158200651
(283051)	15.4	119.35571	268.35024	53.91051	16.65780	0.0761501	3.1685203200638	(283103)	16.8	356.69216	89.35207	185.40026	4.71702	0.1266675	2.7952340200651
(283052)	15.4	82.54578	316.01877	55.13687	11.67412	0.0815892	3.0637280200638	(283104)	18.1	4.31807	112.71261	203.00954	2.87063	0.2190147	2.2188878200652
(283053)	16.9	41.98259	358.21989	114.74917	5.56040	0.1776671	2.3352748200639	(283105)	17.4	11.95275	39.82242	229.47649	4.66830	0.1804588	2.4853962200652
(283054)	16.3	209.81527	211.78555	91.26434	16.21138	0.1370572	2.6940545200639	(283106)	15.8	65.70191	327.50426	260.76924	16.73448	0.1513953	2.262126200652
(283055)	16.1	175.80699	118.17065	163.24661	12.84345	0.1153643	3.0671400200639	(283107)	16.8	323.34131	142.10140	173.84513	2.83566	0.1071199	2.6386157200652
(283056)	16.3	266.58406	197.85959	122.83167	3.81157	0.1799684	2.5191388200640	(283108)	16.1	50.91066	7.71678	250.20937	5.32079	0.0872149	2.4382769200653
(283057)	17.5	315.88183	167.84385	140.72192	7.79321	0.2198531	2.2871412200640	(283109)	16.6	253.49992	288.36033	101.73022	14.40148	0.1838721	2.5729157200653
(283058)	16.2	191.52221	259.68149	194.09983	21.57786	0.0612411	2.5937796200640	(283110)	15.7	177.06543	6.90477	79.91236	11.44939	0.0919569	2.9600508200653
(283059)	16.9	328.92626	171.45024	187.96627	3.52824	0.1916493	2.3169753200640	(283111)	16.0	27.99290	230.63591	34.21391	13.77159	0.1473092	2.5362710200653
(283060)	17.4	351.90967	149.14681	160.09594	6.54264	0.1718386	2.1978327200641	(283112)	16.8	8.52964	137.26938	164.60914	5.73299	0.1176811	2.3693681200654
(283061)	17.4	343.38811	154.27969	156.33555	7.43382	0.1938799	2.2121393200641	(283113)	16.5	43.04606	30.21042	235.22954	13.74129	0.1106435	2.4949193200654
(283062)	17.2	328.28503	121.95470	166.47129	7.63391	0.1862116	2.4045695200641	(283114)	17.0	34.65855	343.05093	291.93095	7.75390	0.1070372	2.3125326200654
(283063)	18.1	328.51614	184.66130	147.82106	0.49490	0.2130594	2.2486636200641	(283115)	16.2	80.58584	1.15889	177.52828	1.89684	0.0348411	2.9498324200654
(283064)	16.9	345.04545	99.08847	245.77229	5.82885	0.2305951	2.1942045200642	(283116)	15.7	205.40943	299.74404	136.72942	12.44583	0.0843208	2.6430720200654
(283065)	18.3	355.28041	94.41997	200.52810	1.84367	0.1689130	2.2706358200642	(283117)	16.0	192.93557	225.11892	225.14576	18.07832	0.0751146	2.6537250200655
(283066)	17.2	120.22116	328.22177	180.15386	4.33020	0.0282800	2.5271744200642	(283118)	17.0	271.96965	246.05610	120.61786	4.89736	0.0947781	2.6107929200655

(283119)	16.4	223.01504	208.56902	205.85689	6.36035	0.1327669	2.6714237200655	(283171)	16.2	351.45959	185.21652	169.67120	4.21760	0.1130244	2.8162965200668
(283120)	15.7	83.96345	67.47949	115.74861	3.14103	0.0089582	2.8649992200656	(283172)	17.7	152.55035	221.88861	79.58152	4.04067	0.1183293	2.2590325200669
(283121)	16.5	193.83298	216.08588	227.76234	13.58616	0.0391574	2.6045829200656	(283173)	13.2	342.09516	157.71135	161.96666	12.59177	0.0460573	5.2562822200669
(283122)	16.4	318.44160	218.17311	103.64513	5.70142	0.1101932	2.5547887200656	(283174)	16.3	94.82777	163.59572	154.05621	11.05351	0.0846808	2.8685727200669
(283123)	16.6	272.98678	278.68257	88.35133	3.60147	0.0691845	2.6603117200656	(283175)	16.2	148.99210	109.65847	148.87237	10.31568	0.1118023	2.7523798200669
(283124)	16.5	264.91592	299.44309	77.97483	3.58720	0.0865665	2.6071168200657	(283176)	12.8	17.79937	36.16692	31.81060	7.14589	0.2088663	5.1961033200670
(283125)	16.3	41.65816	144.30818	75.80324	2.80725	0.1000142	2.9661764200657	(283177)	17.1	43.43335	118.00026	39.84098	4.77227	0.1717382	2.6028223200670
(283126)	16.6	113.63777	318.27233	198.02966	1.33843	0.0233574	2.8788363200657	(283178)	13.7	34.64240	128.00702	157.76447	14.63486	0.1651896	5.2213536200670
(283127)	17.0	26.38849	27.66293	261.30711	3.80306	0.1673555	2.4262426200657	(283179)	15.9	334.25753	175.39331	7.08259	7.18087	0.0282922	3.0038100200671
(283128)	16.4	84.32897	84.62409	90.00625	2.72254	0.0614921	3.0790655200658	(283180)	16.3	63.96471	120.74648	12.17787	13.93216	0.1268440	2.6536435200671
(283129)	15.9	170.37445	6.86947	84.63921	6.63587	0.1173450	2.9909687200658	(283181)	16.5	73.67570	308.51708	258.42887	20.41737	0.0523323	1.9237357200671
(283130)	15.0	212.47712	318.45714	96.90470	12.85946	0.1529298	3.1415743200658	(283182)	16.2	106.47528	227.49869	229.71509	12.71509	0.0505599	2.6015370200671
(283131)	15.8	222.60347	297.61923	110.13336	16.80208	0.1871052	3.0936961200658	(283183)	16.2	66.93674	95.71210	50.70322	12.67839	0.0103176	2.6000210200672
(283132)	16.8	254.52786	174.45934	223.02182	5.24649	0.2835569	2.6291684200659	(283184)	17.7	53.35803	150.43600	69.04950	5.09254	0.1175884	2.1969240200672
(283133)	16.5	330.04436	263.14412	54.74989	5.15860	0.1564419	2.6507076200659	(283185)	16.7	62.75436	115.01244	113.06378	6.12441	0.1684953	2.5817885200672
(283134)	16.0	266.41752	258.11999	116.71562	11.06725	0.1188086	3.0194927200659	(283186)	17.7	78.27779	93.43796	128.20727	3.43067	0.1480274	2.4153039200672
(283135)	14.9	325.98448	190.38288	125.69777	15.53512	0.0788938	3.4138044200659	(283187)	15.1	253.60314	284.28228	98.56224	10.76047	0.1261433	3.4465806200673
(283136)	15.5	271.99765	127.66805	282.62995	21.13856	0.0480620	2.5910810200660	(283188)	14.2	55.87989	328.50488	275.27476	26.46446	0.1547223	3.1781394200673
(283137)	15.6	144.66523	23.44830	94.04444	12.61642	0.0522063	3.1400590200660	(283189)	16.5	274.25880	209.62627	154.02227	8.25628	0.0502313	2.6014829200673
(283138)	16.1	295.16075	243.37551	128.13999	5.58359	0.2834019	2.5866917200660	(283190)	17.9	25.77741	305.38641	332.15432	0.43751	0.1680822	2.3852335200673
(283139)	16.1	275.72742	269.99706	94.41044	5.40415	0.0710526	2.7664167200660	(283191)	17.4	13.72387	340.24939	338.19208	5.31238	0.1845545	2.1916162200673
(283140)	16.0	264.46709	153.08496	265.17177	13.79603	0.1520618	2.5816253200661	(283192)	16.4	206.41673	281.69351	149.61527	22.26647	0.0520632	2.6543164200674
(283141)	15.8	153.52358	285.87607	242.94256	16.64285	0.1076846	2.6391278200661	(283193)	16.9	26.44529	30.94979	242.03525	2.04383	0.1609477	2.4929181200674
(283142)	15.6	244.75016	172.10473	253.43017	21.27294	0.0419480	2.6369534200661	(283194)	16.4	44.95388	33.85704	180.53878	4.04957	0.1246041	3.0983266200674
(283143)	15.6	134.88859	45.24899	117.51300	18.20103	0.1202970	3.0998760200661	(283195)	16.7	123.45209	26.66898	114.35593	5.71705	0.0157769	2.7664049200674
(283144)	15.8	240.04438	296.24514	96.10476	6.13445	0.1597524	3.2193488200662	(283196)	15.4	109.78559	145.24596	327.89286	22.93120	0.2577553	3.0951601200675
(283145)	16.7	256.12344	36.45530	19.28305	2.15451	0.0720131	2.7294053200662	(283197)	16.2	252.86059	209.60521	179.18999	12.42712	0.1443620	2.7045323200675
(283146)	16.1	65.35312	112.52688	121.59999	8.93507	0.1456311	3.0845209200662	(283198)	16.4	44.10731	139.78364	122.49755	10.57506	0.1705842	2.6790096200675
(283147)	16.3	274.10332	278.62338	104.68836	10.44847	0.2234563	2.7479250200662	(283199)	15.7	317.66146	250.12654	118.85533	4.43807	0.1128587	3.1349319200675
(283148)	17.1	76.91040	14.02259	263.56370	5.48031	0.0983877	2.2786715200663	(283200)	17.7	60.26886	110.44931	130.22353	3.05897	0.1492590	2.6483350200676
(283149)	15.7	267.91120	245.93644	120.87901	10.74780	0.1191052	3.0640253200663	(283201)	15.3	43.03777	118.35994	180.91840	15.95442	0.2037170	3.1553590200676
(283150)	15.5	47.30318	317.01944	292.91851	25.42876	0.1504381	3.1693597200663	(283202)	15.4	87.35042	337.81929	195.88922	18.16329	0.1648424	3.1573498200676
(283151)	15.4	88.00126	294.66733	275.54263	10.61220	0.0442653	3.0000136200663	(283203)	16.2	42.10859	90.41280	166.96495	13.13765	0.0849613	3.1043942200676
(283152)	15.9	317.09248	239.08551	119.53606	7.35721	0.0649787	2.7865788200664	(283204)	15.2	346.92407	167.72228	117.09952	5.26008	0.2198393	3.9374406200677
(283153)	17.3	339.40003	231.41271	148.98916	7.29597	0.1067955	2.3877874200664	(283205)	16.5	35.80960	112.24904	164.00486	5.07879	0.0867509	2.7592747200677
(283154)	16.3	342.45043	200.15231	136.03783	14.58616	0.2500649	2.6776946200664	(283206)	15.7	292.23571	174.84339	173.87973	9.49307	0.0714298	3.1666246200677
(283155)	16.3	286.19125	127.75819	334.56750	22.78130	0.3119554	2.3403301200664	(283207)	16.1	359.29420	179.87754	140.68141	10.16686	0.1378012	3.0848923200677
(283156)	16.9	275.53558	134.55537	270.30380	6.41734	0.0951591	2.6153626200665	(283208)	16.4	220.53800	253.99705	208.73609	2.82228	0.0431986	2.6895590200677
(283157)	15.9	185.88236	358.50246	134.85236	15.91493	0.0834952	2.8551339200665	(283209)	15.3	126.97619	301.34411	190.26234	21.73037	0.1524255	3.1991342200678
(283158)	16.5	43.14701	345.51281	318.84236	2.93546	0.0813851	2.8025309200665	(283210)	15.8	185.60011	257.06271	336.91680	13.06464	0.1626837	2.6544207200678
(283159)	15.6	105.01230	82.72625	124.20644	10.95927	0.0312043	3.1226157200665	(283211)	17.0	96.79336	1.61451	341.23225	11.78240	0.1850312	2.5822129200678
(283160)	15.7	221.93372	315.03457	106.58063	28.60449	0.1782910	3.0963857200666	(283212)	16.8	193.52304	345.69448	258.94777	4.65642	0.1914658	2.3939926200679
(283161)	16.1	248.25109	341.65139	78.64282	4.20121	0.0510632	3.0386084200666	(283213)	16.7	109.98079	47.53080	269.80818	3.78521	0.2027176	2.7860294200679
(283162)	15.8	175.06805	210.95122	277.91321	5.39534	0.0319772	3.2234764200666	(283214)	17.2	145.46265	93.15579	195.50046	11.09001	0.1951448	2.6316264200679
(283163)	14.5	37.49052	78.53531	154.92558	14.18922	0.0951035	3.9683155200666	(283215)	15.5	17.50698	164.80177	136.24869	28.63258	0.1073617	3.1049640200679
(283164)	15.5	33.58723	138.20481	147.91677	27.41065	0.1566348	3.2360743200667	(283216)	15.4	64.86554	187.43226	191.45522	17.79933	0.1442052	3.1106464200680
(283165)	15.2	86.68143	41.86279	181.46337	10.31109	0.0489373	3.3962070200667	(283217)	15.7	20.89727	120.31951	182.88388	16.78517	0.1431148	3.1277277200680
(283166)	15.4	143.60067	15.30038	154.04805	16.59321	0.0395177	3.1849222200667	(283218)	16.6	87.13528	257.43038	116.75709	6.03361	0.2967948	2.5926824200680
(283167)	16.5	339.82082	213.77142	135.99383	13.00284	0.1791669	2.6761959200667	(283219)	15.3	71.06570	156.76093	216.74848	27.15348	0.1329486	3.1269443200680
(283168)	14.6	5.57613	156.27002	171.84288	15.15797	0.2679964	3.1849567200668	(283220)	15.4	25.14805	125.48405	260.90302	7.89398	0.1421200	3.0126659200681
(283169)	17.4	51.95922	263.98369	167.23962	23.48301	0.0697131	1.9179232200668	(283221)	16.8	127.66737	130.72752	167.43454	6.39883	0.1403491	2.3528380200681
(283170)	15.3	113.42380	91.91094	159.13497	15.48237	0.2475569	3.1452573200668	(283222)	14.7	33.91631	10.21041	52.77644	13.27911	0.0745717	3.1067811200681

(283223)	15.6	76.17330	5.41898	325.44166	8.83980	0.0901139	3.1416788200682	(283275)	15.7	322.69173	203.31609	115.59364	14.08184	0.1736246	2.7654073200695
(283224)	15.3	115.45260	45.32657	293.30310	13.30941	0.2572480	2.5844245200682	(283276)	16.4	121.14131	45.00532	61.85921	7.11644	0.1084098	3.0247420200695
(283225)	17.2	131.67187	271.17444	21.71048	3.24215	0.1837442	2.4272809200682	(283277)	17.5	359.96975	139.86770	131.67410	3.23114	0.1592670	2.4231816200696
(283226)	17.0	43.44248	357.91109	47.98361	0.61801	0.1680136	2.8580783200682	(283278)	16.5	355.82333	210.56518	66.50640	18.92327	0.2345982	2.7058859200696
(283227)	17.2	222.30605	254.83095	349.64811	2.71717	0.0472366	2.2834362200683	(283279)	16.4	11.95745	162.63116	78.40536	11.31444	0.0935757	2.5891775200696
(283228)	16.2	84.06602	117.91721	231.79900	6.31396	0.1459933	2.4598182200683	(283280)	15.4	333.23524	167.29408	118.94404	11.31176	0.0565140	2.9860867200697
(283229)	16.5	121.40502	97.37782	179.10558	15.73313	0.1647412	2.6578065200683	(283281)	15.6	341.10693	193.53105	98.79079	19.19530	0.1398782	2.7407222200697
(283230)	15.6	13.87851	38.71948	31.88968	14.15008	0.0997603	3.1204404200683	(283282)	15.9	5.62180	122.24883	138.11539	10.91757	0.1808165	3.1690466200697
(283231)	16.9	205.89081	292.63150	286.81032	1.58756	0.0613043	2.6202151200684	(283283)	15.6	93.68378	307.96640	183.50592	12.58225	0.0592181	3.2278698200697
(283232)	17.4	58.91201	227.64738	181.00586	4.91294	0.1077823	2.3991862200684	(283284)	15.4	357.27411	142.68973	114.58222	11.49497	0.0728522	3.0068462200697
(283233)	15.8	96.64557	136.45361	195.02103	11.90222	0.0197677	3.1536493200684	(283285)	17.2	338.23546	156.91727	147.95749	12.17395	0.2071815	2.4532252200698
(283234)	17.6	223.90879	196.18639	48.41788	5.07346	0.0768214	2.2848183200684	(283286)	16.1	22.44599	101.44431	135.17798	12.06548	0.1327824	2.7828560200698
(283235)	16.1	86.69290	8.49960	19.75782	7.71746	0.2309492	2.5907957200685	(283287)	16.3	353.04968	160.27629	134.87995	11.10316	0.3129848	2.7616884200698
(283236)	13.2	347.76989	23.35867	65.44858	7.61165	0.1391513	5.1904598200685	(283288)	15.3	266.47170	219.76840	146.74908	14.40128	0.1006073	3.2449960200698
(283237)	16.7	116.83819	354.14451	339.22588	2.33966	0.2035625	2.6327346200685	(283289)	15.6	277.82556	253.56220	98.13024	15.82800	0.1619420	3.1582299200699
(283238)	17.2	128.88078	276.05107	53.20620	4.30104	0.2499901	2.3497406200685	(283290)	15.9	23.94742	169.90759	58.51641	5.46659	0.1693791	3.1274065200699
(283239)	16.8	108.25056	336.89252	22.77021	1.81900	0.0940970	2.6180728200686	(283291)	17.3	30.64512	5.79203	227.07240	6.62714	0.1209633	2.2438476200699
(283240)	16.7	119.97333	289.80314	55.17885	3.99996	0.2560958	2.5604668200686	(283292)	16.1	45.62401	84.93144	121.67122	6.10029	0.0869963	3.0261738200699
(283241)	16.7	98.73214	299.07802	63.74152	8.41371	0.2027049	2.5994537200686	(283293)	16.0	10.48898	39.20168	213.50432	8.25881	0.1053802	3.0161219200700
(283242)	17.9	97.17228	151.74025	292.02795	2.66746	0.0833845	2.2182775200686	(283294)	17.7	26.11238	214.92399	19.79583	2.52606	0.1461740	2.3572696200700
(283243)	15.6	42.32694	17.26099	144.01739	6.97492	0.0589486	3.1194291200687	(283295)	17.3	332.67529	129.62917	183.17033	3.55201	0.2244950	2.5288128200700
(283244)	16.2	83.34061	102.93127	20.20823	12.68207	0.1168963	2.7266415200687	(283296)	15.2	165.37042	259.99461	191.82030	22.17779	0.1329217	3.2003968200700
(283245)	16.3	49.13336	148.65092	13.92419	27.46780	0.1930533	2.7491209200687	(283297)	18.0	55.95086	359.60899	201.35273	3.48562	0.1264039	2.2739474200701
(283246)	16.6	74.56438	311.44628	154.93723	2.37986	0.1363516	3.0200845200688	(283298)	17.4	325.64331	251.85489	73.85569	6.14481	0.1990124	2.2687863200701
(283247)	16.3	65.59553	313.39489	180.04374	25.53140	0.2038119	2.6343878200688	(283299)	16.6	65.38296	125.99571	61.98936	10.32199	0.0784056	2.5380455200701
(283248)	15.7	282.93040	236.88095	49.73106	10.53060	0.0487353	3.0931941200688	(283300)	16.2	13.93426	71.15474	192.20681	13.16622	0.1665583	2.5876132200701
(283249)	15.4	73.98242	3.43730	121.53647	4.28994	0.0434120	3.4400001200688	(283301)	17.7	29.24131	356.36186	246.50886	2.40561	0.1307562	2.3208195200701
(283250)	16.0	68.32771	335.76535	159.07123	10.99587	0.0645142	3.0379495200689	(283302)	16.3	23.19950	160.35011	78.30665	1.48290	0.2139991	3.0405682200702
(283251)	14.9	113.07766	312.21185	118.83207	9.53559	0.1359324	3.3394875200689	(283303)	17.9	13.49991	136.22359	121.06806	3.27119	0.1645814	2.3143469200702
(283252)	16.6	297.77910	197.60697	114.07869	7.55956	0.1247629	2.4259662200689	(283304)	17.5	346.17973	143.66787	147.07095	5.93945	0.0874999	2.2902459200702
(283253)	15.5	68.89126	22.04330	117.08250	3.69524	0.1163080	3.2149879200690	(283305)	16.5	5.98451	92.84122	173.50186	7.26639	0.1908060	2.6306664200702
(283254)	15.9	10.61428	125.57811	84.36124	11.69289	0.0521226	3.0532272200690	(283306)	16.5	128.34266	352.60477	130.79662	1.66705	0.0375540	2.9982308200703
(283255)	15.9	313.22328	176.37847	88.68506	4.75518	0.0571312	2.9743717200690	(283307)	16.8	98.37816	48.74409	110.87991	3.22737	0.0215893	2.7464442200703
(283256)	17.3	116.16875	61.59677	46.24916	8.16214	0.0541329	2.2350763200690	(283308)	15.9	28.00514	162.96370	58.19148	19.05958	0.0654716	3.1909292200703
(283257)	15.3	60.72295	324.81893	191.12062	15.44013	0.0712519	3.2421717200691	(283309)	18.0	37.82286	108.38562	119.69453	4.35287	0.0876263	2.2563485200703
(283258)	17.2	358.47518	32.63397	216.04773	4.52032	0.1127782	2.2306228200691	(283310)	16.7	331.11243	123.98637	167.33041	2.08339	0.0418456	2.8913662200703
(283259)	17.3	1.61282	130.53056	144.91263	3.42828	0.2418417	2.3447707200691	(283311)	17.2	216.58578	273.74688	135.94261	5.36784	0.1041851	2.4151416200704
(283260)	17.3	309.74547	265.66865	51.03227	6.09828	0.1132634	2.2935130200691	(283312)	17.0	242.88615	295.75559	91.67569	7.76302	0.1181225	2.3644574200704
(283261)	15.7	337.80911	259.14861	17.01130	5.49980	0.1448724	3.0730427200692	(283313)	17.3	337.00816	239.86638	75.75345	6.44742	0.2126781	2.2361063200704
(283262)	16.0	83.91562	300.43111	187.82062	17.74229	0.1411836	2.9108939200692	(283314)	16.6	339.42969	183.47227	106.27845	5.96474	0.1310326	2.7637151200704
(283263)	16.0	15.74472	19.15464	216.77514	11.04372	0.1955300	2.4394799200692	(283315)	15.5	35.73424	347.16061	225.25985	8.31462	0.0653841	3.0294940200705
(283264)	15.3	33.41981	241.42623	314.09692	13.89180	0.1053604	2.9216594200692	(283316)	15.9	335.82508	132.97917	228.98706	14.47405	0.2833665	3.1854887200705
(283265)	15.5	258.15120	213.00145	124.93251	8.74711	0.0909129	3.0686671200693	(283317)	16.4	352.45267	79.48893	249.29599	2.59443	0.3051917	3.1827636200705
(283266)	16.1	318.87638	231.29318	53.99198	5.00840	0.0514343	3.1331960200693								
(283267)	16.9	23.73626	192.87844	38.15625	7.41438	0.0699127	2.3478409200693								
(283268)	15.3	8.52405	70.18941	190.43611	13.97316	0.2227368	2.9768746200693								
(283269)	16.4	356.16390	116.51699	146.55103	5.91249	0.1796291	2.5582548200694								
(283270)	16.2	344.79793	184.76081	101.13288	13.22429	0.1940171	2.6594077200694								
(283271)	17.6	356.10805	147.22499	128.56427	7.79062	0.1939560	2.4189398200694								
(283272)	16.2	283.02081	109.27425	211.63721	8.57780	0.0556195	3.0860853200695								
(283273)	17.2	344.14063	156.09200	123.35630	7.07349	0.1036138	2.3574500200695								
(283274)	17.3	9.92921	156.46921	89.13540	6.68377	0.0836146	2.3334259200695								

SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2002 RB ₂₈₈	=	2002 RJ ₁₆₃	MPO 190761
2006 VL ₅₂	=	2010 NK ₁₀₇	MPO 181171
2007 TL ₁₀₃	=	2010 GE ₁₃₄	MPO 183018
2008 GQ ₁₃	=	2010 OC ₇₅	MPO 181237

2010 AA₁₀₅ = 2011 BK₆₄ MPO 193600
 2010 NE₈₄ = 2010 NX₁₁ MPO 181886
 2011 JF₆ = 2010 HP₉₇ MPO 200054

Further details, orbital elements and residuals for the identifications listed below are given in the *Minor Planet Circulars Orbit Supplement*.

1984 QY₁ = 2007 VB₁ = 2011 NQ
 2000 FR₄ = 2008 UO₁₁₀
 2000 PL₈ = 2011 LW₁₉
 2000 TP₂₇ = 2005 QW₁₇₀ = 2008 GL₁₄₂
 2000 WP₁₃₈ = 2006 WU₅₁
 2001 OH₅₉ = 2010 XK₃₉
 2001 PQ₆₇ = 2005 PN₃
 2001 QY₁₀₆ = 2011 MQ₂
 2001 SW₃₅₅ = 2006 SH₁₈₇
 2001 SY₃₅₅ = 2010 OY₄₁
 2001 TA₂₆₂ = 2010 GO₁₅₁
 2001 XK₂₆₂ = 2006 RR₃₅
 2002 AU₁₂ = 2011 BX₈₃
 2002 AQ₂₁ = 2011 NE
 2002 AY₁₆₈ = 2007 EE₁₀₅
 2002 AV₁₈₀ = 2011 CX₄₂
 2002 CM₃₁₆ = 2006 AF₃₈
 2002 DC₂₁ = 2011 FX₇₉
 2002 GV₄₃ = 2007 UP₂₀
 2002 GV₁₃₃ = 2010 EK₃₄
 2002 LB₃₈ = 2011 HG₁₇
 2002 LG₆₄ = 2006 DJ₁₉₉ = 2011 JO₃₀
 2002 MR₆ = 2007 EQ₈₄
 2002 NH₇₆ = 2005 JN₇₃ = 2010 RL₁₇
 2002 NY₇₆ = 2010 EA₁₄₉
 2002 NZ₇₆ = 2008 DU₅₈
 2002 NA₇₇ = 2007 VD₂₈₆
 2002 OC₃₆ = 2006 KW₁₁₂
 2002 OD₃₆ = 2007 RL₁₂₃
 2002 OF₃₆ = 2008 GM₇₆
 2002 OG₃₆ = 2003 UA₁₆₀ = 2010 EC₁₆₂
 2002 PN₁₆ = 2007 RY₁₅₇
 2002 PV₁₇ = 2010 HE₉₈
 2002 PE₁₉₇ = 2006 UB₂₅ = 2008 CE₆₇
 2002 PF₁₉₇ = 2010 EO₇₃
 2002 PG₁₉₇ = 2004 BE₁₅₁ = 2008 AT₇₂
 2002 PH₁₉₇ = 2009 WP₁₃₄
 2002 PJ₁₉₇ = 2007 YU₃₂
 2002 PM₁₉₇ = 2011 FC₁₀₁
 2002 PO₁₉₇ = 2003 SP₄₀₀
 2002 PP₁₉₇ = 2005 EY₁₆₆
 2002 PQ₁₉₇ = 2011 DJ₂₂
 2002 PX₁₉₇ = 2010 VN₂₃
 2002 PA₁₉₈ = 2010 DQ₆₈
 2002 PB₁₉₈ = 2010 LM₃₇
 2002 PH₁₉₈ = 2006 SM₄₀₈

2002 PJ₁₉₈ = 1995 ON₁₈
 2002 QZ₁₀ = 2002 QA₁₁
 2002 QQ₇₇ = 2006 KJ₃₆ = 2010 GF₁₅₅
 2002 QU₁₄₅ = 1996 EC₁₆
 2002 QB₁₄₆ = 2006 DN₁₈₇ = 2008 SF₂₃₅
 2002 QC₁₄₆ = 2009 FO₄₁
 2002 QG₁₄₆ = 2010 LT₂₆
 2002 QJ₁₄₆ = 2006 MV₁₀
 2002 QK₁₄₆ = 2008 WA₁₁₉
 2002 QL₁₄₆ = 2006 QN₁₄₉
 2002 QM₁₄₆ = 2007 RS₄₉ = 2008 YY₁₀₉ = 2010 BQ₆ = 2010 GB₁₃₀
 2002 QT₁₄₆ = 2010 AZ₁₈
 2002 QU₁₄₆ = 2008 YN₃₁
 2002 QC₁₄₇ = 2003 YG₇₃
 2002 QD₁₄₇ = 2011 KU₃₇
 2002 QE₁₄₇ = 2005 GY₂₁₇
 2002 QF₁₄₇ = 2011 FS₃₀
 2002 QG₁₄₇ = 2007 TH₂₂₁
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 2002 QT₁₄₇ = 2005 EN₇₅
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 2002 VK₉₂ = 2011 FU₆₉
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 2003 CJ₇ = 2005 UQ₉₉
 2003 FO₂₆ = 2009 YJ₉
 2003 QH₁₀ = 2011 ME₇
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 2003 UH₁₇₂ = 2011 MX₈
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 2004 RP₁₇₅ = 2011 MW₃
 2004 RV₁₉₃ = 2001 YL₅₈
 2004 TX₂₃ = 2011 MN₉
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 2004 XZ₇₇ = 2008 UD₆₇
 2004 YN₁₉ = 2011 LF₂₃
 2005 BW₄ = 2011 MZ₃
 2005 ES₁₀₆ = 2002 QJ₁₃₉
 2005 QT₁₀₄ = 1995 SV₅₇
 2005 XT₇₃ = 2010 AQ₄₃
 2006 BA₂₂₉ = 2008 UG₁₆₂
 2006 DP₁₃₁ = 2011 FS₄
 2006 GB₄₂ = 2011 LO₂₆

2006 HA₁₀₉ = 2010 FZ₆
 2006 KC₁₁₆ = 2010 EM₉₀
 2006 PL₅ = 2010 KM₈₈ = 2011 KD₁₆
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 2006 VM₃₂ = 2006 VW₃₇
 2006 VB₁₅₄ = 2010 HM₁₀
 2006 YP₄₂ = 2011 BF₈₅
 2007 BQ₄₃ = 2011 KJ₃₅
 2007 DX₅₂ = 2010 TM₁₅₅
 2007 DP₅₇ = 2011 BT₉₈
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 2007 EG₁₉₇ = 2005 XZ₁₀₇
 2007 HD₅₃ = 2011 HG₄₄
 2007 RR₂₆₅ = 2011 ML₄
 2007 TR₂₈ = 2010 FE₂₃
 2007 TM₁₅₂ = 2007 TH₄₁₆
 2007 TP₄₁₂ = 2011 MA₇
 2007 UQ₁₇ = 2005 EZ₂₅₂ = 2005 FH₈ = 2010 CG₈₁ = 2010 DT₉₁ = 2011 KB₃₇
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 2007 US₁₃₈ = 2005 BH₃₆
 2007 VK₁₃₁ = 2007 TM₄₉
 2007 YS₇₁ = 1998 SN₁₈
 2008 EN₄₉ = 2005 TM₁₅₅
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 2008 WB₃₉ = 2008 WX₁₂₃
 2008 YE₆ = 2001 WT₈₁
 2008 YV₁₅₃ = 2002 QM₁₄₇
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 2009 BE₁₈₃ = 2007 TT₂₆₉
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 2009 DU₆ = 2007 RO₂₀₂
 2009 RH₇₃ = 2000 SN₃₆₇ = 2005 YC₂₃₂
 2009 SR₂₉₃ = 2007 EM₉₄
 2009 UR₁₀₀ = 2006 FN₄₇
 2009 VU₈₇ = 2011 FZ₁₃₃
 2009 WT₈₇ = 2005 YK₁₃₅
 2009 YW₁₄ = 2004 VV₉₄
 2010 AD₈₇ = 2007 RN₁₈₆
 2010 CJ₁₃₆ = 2004 TC₃₂₀
 2010 LD₁₂ = 2003 GZ₂₄ = 2008 GE₈₇
 2010 NX₁₁ = 2010 NE₈₄ = 2010 TN₆₃
 2010 OC₁₀₃ = 2010 TL
 2010 RZ₁₀₁ = 2008 GA₁₁₄
 2010 TJ₁₅ = 2008 EG₂₆
 2010 TG₁₆ = 2010 NP₉₀
 2010 TK₁₇ = 2008 AD₅₅
 2010 TA₁₅₉ = 2008 FE₃₆
 2010 UR₆ = 2002 EF₆₅
 2010 UF₂₉ = 2008 CE₁₄₈
 2010 UL₄₀ = 2006 VF₃₈
 2010 UV₅₁ = 2010 PY₅₃ = 2009 SN₂₄₇
 2010 UY₆₆ = 2010 TS₁₃₁
 2010 US₈₂ = 2007 MJ₁₅
 2010 UF₉₃ = 2006 WU₆₄
 2010 UL₉₄ = 2010 PJ₆₉ = 2006 YW₂
 2010 UE₉₅ = 2001 SL₂₀₄
 2010 UD₉₉ = 2001 TJ₂₄₇
 2010 VJ₂₁ = 2006 SX₂₇₁
 2010 VG₆₁ = 2009 WE₁₈₅
 2010 VE₇₉ = 1999 TN₈₅
 2010 VP₇₉ = 2005 JE₇₈
 2010 VP₈₇ = 1999 TM₃₃₂
 2010 VJ₉₅ = 2005 RN₁₃ = 2006 YF₂₃
 2010 VM₁₁₅ = 2009 WA₅₅
 2010 VP₁₁₇ = 2008 SQ₂₆ = 2009 SO₂₄₈
 2010 VB₁₂₂ = 2009 SG₁₄₀
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 2010 VG₁₆₄ = 2009 HO₄₅
 2010 VK₁₆₆ = 2005 YV₂₇₆
 2010 XE₅₀ = 2010 WB₃₁ = 2003 YZ₆₇
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 2011 BD₁₃ = 2001 QR₂₀₄
 2011 BL₂₂ = 2010 DX₈₁
 2011 BK₆₂ = 2005 YX₁₅₄
 2011 BK₇₃ = 2009 WL₁₅₄
 2011 BP₇₈ = 2004 KH₅
 2011 BS₇₉ = 2005 QK₁₁₈
 2011 BG₈₆ = 2008 GL₁₃
 2011 BV₈₆ = 2006 DN₇₆
 2011 BZ₈₆ = 2007 BZ₃₇
 2011 BL₈₇ = 1997 CK₃
 2011 BX₈₇ = 2006 CC₅₂
 2011 BF₈₈ = 2010 BN₈₀
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 2011 BM₈₉ = 2010 CB₂₁₀
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 2011 BQ₉₀ = 2005 TF₁₆₁
 2011 BZ₉₁ = 2006 WR₁₅₁
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 2011 BA₉₃ = 2009 SO₂₄₂
 2011 BL₉₃ = 1996 VM₁₀

2011 BF₉₄ = 2010 AH₁₀₅
 2011 BX₉₅ = 2006 WA₁₇₀
 2011 BZ₉₇ = 2001 UR₁₀₄
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 2011 BR₁₀₀ = 2003 SZ₄₁₇
 2011 BS₁₀₀ = 2007 FD₁₅
 2011 BB₁₀₁ = 2006 VP₇₆
 2011 BF₁₀₁ = 2006 EG₃₄ = 2010 BW₁₀₄
 2011 BG₁₀₁ = 2007 DW₁₃
 2011 BJ₁₀₁ = 2008 LU₄ = 2010 BM₄₄
 2011 BO₁₀₁ = 2009 SC₃₂₄
 2011 BB₁₁₆ = 2005 YE₅₀
 2011 BH₁₁₈ = 2004 RH₈₂
 2011 BA₁₁₉ = 2002 UF₄₇
 2011 BM₁₁₉ = 2006 HF₁₅₁
 2011 BA₁₂₀ = 2005 UV₃₂₉
 2011 BA₁₂₁ = 2003 UC₄₀₁
 2011 BM₁₂₁ = 2005 VN₄₆
 2011 CQ₆ = 2009 VF₉₀
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 2011 CW₂₇ = 2001 DO₅₅
 2011 CE₄₁ = 2003 QW₁₁₆
 2011 CN₄₅ = 2010 CG₂₁₀
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 2011 CZ₄₅ = 2009 PB₁₈ = 2009 SU₃₃₁
 2011 CP₄₉ = 2009 SC₁₉₀
 2011 CV₅₄ = 2009 WB₁₉₈
 2011 CC₅₆ = 2005 TS₈₅
 2011 CU₆₀ = 2009 WE₁₈₀
 2011 CQ₇₁ = 2004 RA₁₂₀
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 2011 CW₈₅ = 2004 XP₁₇₄ = 2010 CV₁₂₉
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 2011 CG₈₇ = 2006 BW₁₂
 2011 DE₂₅ = 2010 BU₈
 2011 DB₂₇ = 2006 EY₃₁
 2011 EG₁₃ = 2009 VP₃₄
 2011 EJ₂₄ = 2009 WB₁₈₂
 2011 EH₂₆ = 2004 TA₂₇₈
 2011 EA₂₈ = 1995 FC₁₈
 2011 EN₃₅ = 2006 EO₆₉
 2011 ED₅₁ = 2004 TS₁₀₀ = 2007 YB
 2011 ES₅₄ = 1997 MP₈
 2011 ER₅₇ = 2003 WB₁₈₂
 2011 EF₆₂ = 2005 UQ₃₆₆
 2011 EZ₆₆ = 2004 TS₁₇₄
 2011 EG₆₇ = 2010 DM₅₇
 2011 EX₆₈ = 2006 AR₄₇ = 2010 DW₆₇
 2011 EJ₈₀ = 2006 BJ₂₆₆
 2011 FE₁₇ = 2003 TP₅₃ = 2009 WG
 2011 FD₁₉ = 2010 GW₁₆₇

2011 FM₂₁ = 2007 ED₂₉
 2011 FD₂₃ = 2007 BC₇₀
 2011 FE₂₃ = 2002 JW₁₃₇
 2011 FL₃₂ = 2007 EM₁₃₇
 2011 FC₃₄ = 2007 RR₁₆₀ = 2010 CA₈₈
 2011 FF₃₄ = 2009 WC₆₃
 2011 FP₃₄ = 2007 LH₁₃
 2011 FP₃₇ = 2000 GK₁₆₁
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 2011 FP₆₄ = 2007 HT₁
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 2011 FB₉₀ = 2007 HP₅₇
 2011 FL₉₅ = 2007 LE₉
 2011 FG₁₂₅ = 1996 VQ₃₁
 2011 FC₁₃₁ = 2007 EN₉₁
 2011 FW₁₃₁ = 2007 EK₁₄₂
 2011 FQ₁₃₈ = 2009 WW₂₁₁
 2011 FW₁₄₁ = 2008 UF₂₅₅
 2011 FA₁₄₃ = 2004 PK₆₀ = 2004 RV₃₇ = 2005 YC₂₆₁
 2011 FW₁₄₃ = 2009 SL₁₀
 2011 FM₁₄₅ = 2008 OV₁₆
 2011 FX₁₄₆ = 2010 FM₁₀₈
 2011 FG₁₄₇ = 2005 YT₁₈₁ = 2009 VZ₃₂
 2011 FO₁₄₈ = 2004 TZ₇₀ = 2005 XA₇₅
 2011 GU₃ = 2010 EW₁₄₈
 2011 GG₁₃ = 2008 SJ₆₄
 2011 GM₃₁ = 2005 XB₅₅
 2011 GS₃₁ = 2004 TB₃₀₅
 2011 GQ₄₄ = 2006 CV₂₈
 2011 GY₆₃ = 2011 HU₅₄ = 2006 JR₃₉
 2011 GU₆₉ = 2011 HE₃₃ = 2005 VD₁₀₆
 2011 GX₇₁ = 2011 KR₆ = 2006 DB₂₀₁ = 2010 EQ₁₅₈
 2011 GS₇₂ = 2002 UY₆₁ = 2003 YG₁₀₈
 2011 GB₇₃ = 2011 GT₃₀
 2011 GR₇₄ = 2007 ER₁₀₆
 2011 GA₇₇ = 2011 FJ₂ = 2008 UX₂₇₀
 2011 GY₇₇ = 2010 GY₉₀
 2011 GT₇₈ = 2008 UX₂₁₆
 2011 GG₇₉ = 2005 RN₁₂
 2011 GV₈₂ = 2010 GY₄₃
 2011 GJ₈₃ = 2006 WG₄₄
 2011 GA₈₄ = 2002 GT₁₆₁
 2011 GQ₈₅ = 2006 KG₁₁₄
 2011 HN₈ = 1996 JO₁₁ = 2003 XZ₂₆
 2011 HO₁₄ = 2006 GM₂₇ = 2010 EC₁₆₁
 2011 HH₁₇ = 2010 AO₁₆
 2011 HJ₁₇ = 2009 WS₂₁₃
 2011 HU₁₇ = 2009 VJ₇₄
 2011 HE₁₉ = 2005 ET₁₁₆
 2011 HN₂₇ = 2010 KC₁₁
 2011 HR₂₇ = 2005 YP₁₇ = 2010 AG₅

2011 HB₂₈ = 1997 HG₈
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 2011 HR₃₆ = 2010 GB₈₂
 2011 HB₃₈ = 2007 UR₂₇ = 2010 JO₈₈
 2011 HY₃₈ = 2005 EW₃
 2011 HA₃₉ = 2011 FW₄₈
 2011 HT₃₉ = 2004 XN₁₂₇ = 2010 KD₇₂
 2011 HZ₃₉ = 2006 KH₅₈
 2011 HZ₄₀ = 2003 YY₁₆₂ = 2010 JZ₁₃₃
 2011 HZ₄₄ = 2007 GX₇₃
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 2011 HR₅₇ = 2007 DW₈₃
 2011 HU₅₇ = 2010 GO₄₇
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 2011 HT₇₇ = 2011 KA₁₀ = 2005 SO₂₇₄
 2011 HB₇₉ = 2007 DM₄₅
 2011 HN₈₀ = 2007 TS₃₃₉
 2011 HP₈₁ = 2005 YS₁₉₄
 2011 HS₈₃ = 2004 GW₄₁
 2011 HL₈₄ = 2005 EX₂₆₆ = 2007 RB₁₅
 2011 HA₈₅ = 2007 RE₁₅₁
 2011 HA₈₈ = 2006 BP₂₄₁
 2011 HD₈₈ = 2010 GW₈₆
 2011 HD₈₉ = 2005 NA₇₅
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 2011 JH₈ = 2010 GB₁₇
 2011 JL₁₀ = 2005 NJ₅₅
 2011 JS₁₂ = 2010 HY₇₃
 2011 JU₁₄ = 2000 EC₁₄₇ = 2010 GS₈₃
 2011 JR₁₅ = 1995 MB₄
 2011 JW₁₅ = 2004 AJ₂₂
 2011 JF₁₆ = 2007 TE₃₄₈
 2011 JO₁₆ = 2002 YK₃₆
 2011 JX₁₆ = 2010 FT₄₆
 2011 JP₂₀ = 2008 VZ₁₉
 2011 JF₂₁ = 2006 BK₁₂₀ = 2010 GQ₄₉
 2011 JB₂₅ = 2010 CQ₁₁₉
 2011 JD₂₅ = 2004 BB₁₃₂
 2011 JR₂₅ = 2005 GL₂₂₇
 2011 JU₂₅ = 2002 TD₃₄₈
 2011 JK₂₆ = 2002 VK₅
 2011 JJ₂₇ = 2005 UR₂₀₁
 2011 JR₂₇ = 2010 HK₉₄
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 2011 JR₂₈ = 2010 CN₇₂
 2011 JU₂₈ = 2004 OP₁₂
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 2011 KC₄ = 2008 YR₄₉ = 2010 DW₈
 2011 KE₄ = 2007 WC₁₆
 2011 KB₅ = 2003 LF₅
 2011 KG₆ = 2010 GV₈
 2011 KN₆ = 2006 BR₂₃₆
 2011 KV₆ = 2005 EM₂₃₄
 2011 KE₇ = 2008 WN₁₃₂
 2011 KK₇ = 2008 OM₆
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 2011 KK₁₂ = 2006 OU₅
 2011 KV₁₂ = 2000 JS₉₁ = 2010 KF₂₉
 2011 KZ₁₃ = 2004 RV₁₆₅
 2011 KO₁₄ = 2010 FW₆₆
 2011 KD₁₅ = 2007 DA₉₆
 2011 KH₁₅ = 2007 AQ₁₃
 2011 KR₁₅ = 2007 VH₂₉₉ = 2010 EP₁₄₆
 2011 KK₁₆ = 2005 XC₁₀
 2011 KS₁₆ = 2003 MO₁ = 2007 OV₂
 2011 KT₁₆ = 2010 HE₁₁₃
 2011 KW₁₆ = 2000 HJ₂₄
 2011 KS₁₇ = 2010 HM₁₁₂
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 2011 KZ₂₂ = 2004 FT₅₅
 2011 KQ₂₃ = 2007 JS₂₇
 2011 KR₂₅ = 2004 GA₇₁
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 2011 KH₂₈ = 2001 FG₂₀₈
 2011 KX₂₈ = 2010 HH₉₅
 2011 KB₂₉ = 2004 JK₂₇
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 2011 KW₃₀ = 2007 RE₂₀₉ = 2010 KG₂₉
 2011 KB₃₁ = 2006 AR₃₉
 2011 KJ₃₂ = 2004 XD₅₄ = 2008 UV₁₃₂
 2011 KZ₃₂ = 2008 YE₄₃
 2011 KD₃₃ = 2010 LJ₉₁
 2011 KT₃₃ = 2005 YW₂₈₈

2011 KY₃₃ = 2003 PK₁₀ = 2005 YM₂₁
 2011 KA₃₄ = 2005 JG₁₃₀
 2011 KH₃₄ = 2006 HG₂₄
 2011 KJ₃₄ = 2008 UK₈₃ = 2010 CO₁₅₂ = 2010 JD₁₃
 2011 KK₃₄ = 2010 JC₅₂
 2011 KL₃₄ = 2007 CK₁₇
 2011 KG₃₆ = 1998 BF₃
 2011 KZ₃₇ = 2010 KQ₂₂
 2011 KL₃₈ = 2010 EB₉₁
 2011 KL₃₉ = 2008 UA₁₇₁
 2011 KW₃₉ = 2008 YD₁₁₁ = 2010 KQ₈₂
 2011 KO₄₆ = 2007 RU₂₅₅
 2011 KE₄₇ = 1997 WY₁₂
 2011 KR₄₇ = 2006 CY₁₇
 2011 LC₁ = 2007 TU₂₃₄
 2011 LK₁ = 2006 DW₉₅
 2011 LG₂ = 2005 UU₂₀₇
 2011 LN₃ = 2005 WL₂₀₅ = 2008 RL₁₇
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 2011 LF₅ = 1999 AK₃₂ = 2002 SD₅₂ = 2003 YW₁₅₂
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 2011 LR₆ = 2006 BD₂₅₁
 2011 LD₇ = 2010 JW₁₂₈
 2011 LX₇ = 2004 XY₆₁
 2011 LD₈ = 2003 NR₅ = 2005 ER₂₈₆
 2011 LM₈ = 2007 EG₇₂
 2011 LJ₁₁ = 2006 FE₄₇
 2011 LE₁₂ = 2008 XB₁₅
 2011 LR₁₃ = 1997 GU₂₉
 2011 LY₁₃ = 2007 TJ₁₀₄
 2011 LL₁₄ = 2006 PT₂₃
 2011 LV₁₄ = 2007 VZ₁₂₈
 2011 LE₁₅ = 2010 KC₄₀
 2011 LL₁₅ = 2005 UR₁₈₇
 2011 LF₁₆ = 2009 WT₁₀
 2011 LO₁₇ = 2006 SZ₇₈
 2011 LW₁₇ = 2010 JM₅₀
 2011 LQ₁₉ = 2005 YB₁₉₄
 2011 LB₂₁ = 2007 UC₁₂
 2011 LP₂₁ = 1999 FO₈₃
 2011 LB₂₂ = 2010 CU₁₆₅
 2011 LS₂₃ = 2005 GG₁₂₅
 2011 LU₂₄ = 2008 UM₁₈₈
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 2011 LR₂₆ = 2005 YE₂₇₉
 2011 MB = 2011 KP₁₉ = 2004 XC₅₀ = 2009 VS₉₃
 2011 MA₃ = 2008 XW₈
 2011 MF₅ = 2007 RT₂₈₀

NEW NAMES OF MINOR PLANETS

(4034) Vishnu = 1986 PA

Discovered 1986 Aug. 2 by E. F. Helin at Palomar.

Vishnu is the Hindu god of preservation. Name suggested by J. Meeus.

(4759) Åretta = 1978 VG₁₀

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Åretta is the name of a school situated in the Norwegian town of Lillehammer. This school was one of three winners of the Best School Teaching of Astronomy competition held during the 2009 Year of Astronomy in Norway.

(4858) Vorobjov = 1985 UA

Discovered 1985 Oct. 23 by J. Gibson at Palomar.

Amateur astronomer Tomas Vorobjov (b. 1984) is an assiduous observer of minor planets and a participant in the International Astronomical Search Collaboration. He has been responsible for verifying student asteroid discoveries and taking follow-up images to complete the discovery process. Name suggested by S. Foglia.

(4984) Patrickmiller = 1978 VU₁₀

Discovered 1978 Nov. 7 by E. F. Helin and S. J. Bus at Palomar.

Patrick J. Miller (b. 1949), professor of mathematics at Hardin-Simmons University in Abilene, TX, is the founder and director of the International Astronomical Search Collaboration, an educational outreach program for high schools and colleges, provided at no cost to the participating schools. Name suggested by S. Foglia.

(5019) Erfjord = 1979 MS₆

Discovered 1979 June 25 by E. F. Helin and S. J. Bus at Siding Spring.

Erfjord is the name of a small school in a small village of the same name in western Norway. This school was one of three winners of the Best School Teaching of Astronomy competition held during the 2009 Year of Astronomy in Norway.

(9408) Haseakira = 1995 BC

Discovered 1995 Jan. 20 by T. Kobayashi at Oizumi.

Akira Hase (b. 1923) is professor emeritus at Hiroshima University. Based on detailed geological research, he has clarified the stratigraphy and geological structure of the Paleozoic-Mesozoic group of southwest Japan. In addition, he has tutored many excellent earth science experts and teachers.

(10017) Jaotsungi = 1978 UP₂

Discovered 1978 Oct. 30 by the Purple Mountain Observatory at Nanking.

Jaotung-i, alias Xuantang (b. 1917), is a world renowned sinologist, painter and calligrapher. He has lectured in well-known universities in Asia, Europe and North America, and has over 80 academic publications.

(11517) Esteracuna = 1991 EA₄

Discovered 1991 Mar. 12 by H. Debehogne at the European Southern Observatory.

Maria Ester Acuna Castillo (b. 1951) was a caretaker at the Manuel Foster Observatory for several decades. She assisted astronomers during observations with the historical single-prism spectrograph mounted on a replica of the Lick Observatory telescope on Cerro San Cristobal in the heart of Santiago de Chile.

(10977) Mathlener = 3177 T-2

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Edwin Mathlener (b. 1962) was editor of the Dutch astronomy magazine *Zenit*, and is now director of the National Center for Astronomical Information, “De Koepe”, in Utrecht. Name suggested by H. van Woerden and A. van der Brugge.

(12146) Ostriker = 6035 P-L

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Jeremiah P. Ostriker (b. 1937) is an American astrophysicist who has contributed to many fields of theoretical astrophysics and cosmology, including the distribution of baryonic and dark matter and values of cosmological parameters.

(12180) Kistemaker = 5167 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Jacob Kistemaker (1917–2010), Teylers professor at Leiden University, was a pioneer in isotope separation, uranium enrichment, atomic and molecular collisions, and vacuum science and technology. Name suggested by H. Habing and F. Saris.

(13439) Frankiethomas = 2072 P-L

Discovered 1960 Sept. 24 by C. J. Van Houten and I. Van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Actor Frankie Thomas (1921–2006) played cadet Tom Corbett in the 1950s TV series “Tom Corbett, Space Cadet”. He was a fine role model for all children watching the show and believed that science was good and improved the quality of our lives. He had many movie credits before Tom Corbett.

(13448) Edbryce = 4526 P-L

Discovered 1960 Sept. 24 by C. J. Van Houten and I. Van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Actor Ed Bryce (1921–1999) played Captain Steve Strong in the 1950s TV series “Tom Corbett, Space Cadet”. He led the crew of cadets. Ed Bryce contributed to the meteoric growth of early television and was featured in numerous shows.

(13441) Janmerlin = 2098 P-L

Discovered 1960 Sept. 24 by C.J. Van Houten and I. Van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Actor Jan Merlin (b. 1925) played cadet Roger Manning in the 1950 TV series “Tom Corbett, Space Cadet”. He was the astronaut on the rocket ship’s radar deck and was always on the lookout for asteroids and comets.

(13446) Almarkim = 3087 P-L

Discovered 1960 Sept. 24 by C.J. Van Houten and I. Van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Actor Al Markim (b. 1927) played cadet Astro in the 1950 TV series “Tom Corbett, Space Cadet”. His role on the rocketship Polaris was to control the engines on the power deck. Besides acting in many early TV shows, he co-produced some early TV series.

(13449) Margaretgarland = 4845 P-L

Discovered 1960 Sept. 24 by C.J. Van Houten and I. Van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Actress Margaret Garland (b. 1921) played Dr. Joan Dale in the 1950 TV series “Tom Corbett, Space Cadet”. In one episode she went with the cadets to an asteroid mine. She appeared earlier in a number of Broadway plays and later became a nurse.

(14914) Moreux = 1993 TM₂₆

Discovered 1993 Oct. 9 by E. W. Elst at La Silla.

Théophile Moreux (1867–1954), commonly known as “Abbé Moreux”, was a French astronomer and meteorologist. He founded an observatory in Bourges, where he was professor of science and mathematics. He observed surface features on the Moon and Mars, and wrote several popular books on astronomy.

(15050) Heddal = 1998 XC₉₆

Discovered 1998 Dec. 12 by O. A. Naranjo at Mérida.

Heddal is the name of a small school in a small village of the same name in southern Norway. This school was one of three winners of the Best School Teaching of Astronomy competition held during the 2009 Year of Astronomy in Norway.

(15116) Jaytate = 2000 DZ₁₂

Discovered 2000 Feb. 27 by Spacewatch at Kitt Peak.

Jonathan Tate (b. 1955) is an enthusiastic advocate of the search for hazardous Near-Earth Objects (NEOs) and founder of Spaceguard-UK and the Spaceguard Centre in Wales, UK. The Centre provides astrometry of NEOs and is unique in the UK in informing the public about the NEO hazard.

(15149) Loufaix = 2000 EZ₁₄₁

Discovered 2000 Mar. 2 by the Catalina Sky Survey.

Louis Faix (1933–2011), an amateur astronomer originally from the Detroit area in Michigan, retired to Saddlebrooke, Arizona. As an engineer he brought that experience into his hobby, inventing devices like the Faix Compensator, featured in an article in the May 1978 *Sky & Telescope*.

(15151) Wilmacherup = 2000 EU₁₄₈

Discovered 2000 Mar. 4 by the Catalina Sky Survey.

Wilma Cherup (1915–2010), of the Amateur Astronomers’ Association of Pittsburgh, became The Astronomical League’s Executive Secretary in 1954. She held this position for 23 years, and was awarded the Astronomical League Award in 1963. Wilma was known and loved by thousands of amateur astronomers around the world.

(15338) Dufault = 1994 AZ₄

Discovered 1994 Jan. 5 by Spacewatch at Kitt Peak.

Named in honor of Michele Dufault (1988–2011), an outstanding astronomy and physics student at Yale College who died in an accident just weeks before graduation. Michele was passionate about science and about encouraging others, especially young women, to pursue science careers. Citation by M. Urry.

(15339) Pierazzo = 1994 AA₉

Discovered 1994 Jan. 8 by Spacewatch at Kitt Peak.

Elisabetta Pierazzo (1963–2011) was an expert in impact modeling, in particular of the Chicxulub impact, as well as in modeling the effects of impacts on Earth and Mars. She was an enthusiastic communicator of science to the general public and a dedicated teacher of planetary science for students and educators.

(17608) Terezín = 1995 TN

Discovered 1995 Oct. 12 by M. Tichý at Kleť.

Terezín (Theresienstadt) was established as a walled fortress and garrison town by Habsburgs in 1780. It was never under direct siege. During World War II, the Nazis used Terezín as a ghetto, concentrating there tens of thousands of Jews from Czechoslovakia, as well as from other countries.

(21104) Sveshnikov = 1992 PY

Discovered 1992 Aug. 8 by E. W. Elst at Caussols.

Mikhail Leonidovich Sveshnikov (b. 1941) is a well-known expert in celestial mechanics and astrometry. He is Editor-in-Chief of the *Russian Naval Astronomical Almanac*. From 2001 to 2004, he headed the Laboratory of the astronomical yearbooks of the Institute of Applied Astronomy of the Russian Academy of Sciences.

(21302) Shirakamisanchi = 1996 XU

Discovered 1996 Dec. 1 by N. Sato at Chichibu.

Shirakamisanchi is a mountain district spreading over Aomori Prefecture and Akita Prefecture, Japan. It is famous for a primeval forest of beech trees and was registered as a World Nature Heritage site in 1993.

(22470) Shirakawa-go = 1997 CR₂₁

Discovered 1997 Feb. 9 by N. Sato at Chichibu.

Shirakawa-go is the village located on the border of Gifu Prefecture and Toyama Prefecture, Japan. It is famous for its big houses with thatched rafter roofs and was registered as a World Culture Heritage site in 1995.

(22827) Arvernia = 1999 RQ₄₅

Discovered 1999 Sept. 8 by T. Pauwels at Uccle.

Arvernia is the Latin name of the Auvergne, a region in south-central France. Much of the Auvergne region is covered by the Massif Central, an extinct volcanic mountain range. Name suggested by J. Meeus.

(24910) Haruoando = 1997 CK₂₉

Discovered 1997 Feb. 14 by T. Okuni at Nanyo.

Haruo Ando (b. 1951), a doctor of internal medicine, is a Japanese amateur astronomer and a member of the Yamagata Astronomical Club.

(24940) Sankichiyama = 1997 JY₄

Discovered 1997 May 1 by T. Okuni at Nanyo.

Sankichiyama mountain is located to the east of Kaminoyama, a hot-spring town in Yamagata prefecture. The mountain is loved by citizens as a hiking course.

(25137) Seansolomon = 1998 SS₂₃

Discovered 1998 Sept. 17 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Sean Solomon (b. 1945), director of the Carnegie Institution of Washington's Department of Terrestrial Magnetism, is a geophysicist and planetary scientist who has studied the Earth's mid-ocean ridges and the surfaces of Venus, Mars and the Moon. He is the Principal Investigator for NASA's MESSENGER mission.

(29186) Lake Tekapo = 1990 UD₂

Discovered 1990 Oct. 26 by T. Seki at Geisei.

Lake Tekapo, located near the Southern Alps on New Zealand's South Island, is known for its breath-taking scenery. It is home to Canterbury University's Mt John Observatory and is a major centre for astro-tourism.

(32855) Zollitsch = 1992 SF₁₇

Discovered 1992 Sept. 24 by L. D. Schmadel and F. Börngen at Tautenburg.

Robert Zollitsch (b. 1938) is the archbishop of Freiburg and, since 2008, chairman of the German Roman Catholic conference of bishops. He used a little telescope for many years. Name proposed by the first discoverer.

(34901) Mauna Loa = 2699 P-L

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

This minor planet at the Hecuba Gap is named for the volcano Mauna Loa, which means Long Mountain. This volcano forms the largest part of the Big Island of Hawaii. The summit of Mauna Loa, at 4169 m, is about 40 m less than that of its dormant neighbor, Mauna Kea. Name suggested by J. Schubart.

(65541) Kasbek = 9593 P-L

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

This minor planet at the Hecuba Gap is named for the 5050-m-high inactive volcano Kasbek in the Georgian Caucasus, near the Russian border. Name suggested by J. Schubart.

(99824) Polnareff = 2002 MN₃

Discovered 2002 June 29 by M. Ory at Vicques.

Michel Polnareff (b. 1944) is a French singer and a songwriter who has been very popular since his 1966 recording of the song "La poupée qui fait non".

(144552) Jackiesue = 2004 FS₄

Discovered 2004 Mar. 19 by R. Holmes at the Astronomical Research Institute, Charleston.

Jackie Sue (b. 1959) is the wife of Robert Holmes and is active in the business component of the Astronomical Research Institute. She is also very active in education and public outreach at the institute.

(149955) Maron = 2005 TK₄₉

Discovered 2005 Oct. 9 by J. Lorenz at Hormersdorf Observatory.

Maron is the childhood nickname of Marion Lorenz (b. 1967), the discoverer's wife and a committed teacher of sports and geography. She has given support to the operation for Hormersdorf Observatory. The discoverer thanks her for her love and patience.

(160013) Elbrus = 1294 T-2

Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

This minor planet at the Hecuba Gap is named for the inactive volcano Elbrus, the highest mountain (at 5633 m) of the Caucasus in Russia, near the Georgian border. Name suggested by J. Schubart.

(167748) Markkelly = 2004 XB₄₂

Discovered 2004 Dec. 12 at Jarnac Observatory.

Mark E. Kelly (b. 1964) is an astronaut who has flown on four NASA shuttle missions, the most recent of which was Endeavour's final flight which he commanded in 2011 to deliver a cosmic-ray particle detector to the International Space Station.

(170906) Coluche = 2004 XC₄₁

Discovered 2004 Dec. 9 by M. Ory at the Tenagra II Observatory.

Michel Colucci (1944–1986), better known as Coluche, was a French comedian and actor, famous for his irreverent sense of humour. He was one of the first major comedians to regularly use profanities as a source of humor on French television. He was the organiser of a charity called "Les Restos du Coeur".

(184620) Pippobattaglia = 2005 RA₂₄

Discovered 2005 Sept. 10 by V. S. Casulli at the Vallemare Borbona.

Pippo Battaglia (b.1947) is an excellent science popularizer. He has written numerous books on astronomy and established the Giuseppe Piazzi award, the annual international prize for people who have contributed to science. The name was suggested by W. Ferreri.

(191282) Feustel = 2003 FS

Discovered 2003 Mar. 22 by KLENOT at Kleť.

Andrew J. Feustel (b.1965), NASA astronaut, served on the crew of STS-125, which successfully extended the Hubble Telescope capabilities, and STS-134, Space Shuttle Endeavour's final mission, which delivered the Alpha Magnetic Spectrometer. He also takes part in public outreach.

(239792) Hankakováčová = 2010 EM₃₄

Discovered 2010 Mar. 9 by T. Vorobjov at the LightBuckets Observatory, Rodeo.

Hanka Kováčová (b.1986) is a director and dramaturgist. Since the first years of her studies she participated in international projects and International Theatre Festivals.

(244932) Méliés = 2003 XW₂₁

Discovered 2003 Dec. 15 by B. Christophe at Saint-Sulpice.

Georges Méliés (1861–1938) was a French film maker and pioneer of science-fiction movies, best known for his 1902 film “Le voyage dans la lune”.

(242529) Hilaomar = 2005 AL₅₄

Discovered 2005 Jan. 13 by M. Ory at Vicques.

Hila Omar is really into astronomy and promotes that science in Morocco. He has constructed an observatory with a 60-cm telescope in a cultural center south of the city of Marrakech.

(250354) Lewicdeparis = 2003 SP₂₄₄

Discovered 2003 Sept. 25 by B. Christophe at Saint-Sulpice.

The WIC de Paris (Women International Club), welcomes women of all nationalities living in and around Paris and provides them a friendly environment for sharing cultures.

(255019) Fleurmaxwell = 2005 TN₅₂

Discovered 2005 Oct. 10 by M. Dawson at the Cote de Meuse Observatory.

Fleur Maxwell (b.1988) is Luxembourg's 2005 national champion figure skater. Maxwell was the only member of Luxembourg's Olympic Team to compete at the 2006 Olympic Winter Games.

(255073) Victoriabond = 2005 UR₈

Discovered 2005 Oct. 30 by M. Dawson at the Cote de Meuse Observatory.

Victoria Bond is the popular Australian science radio presenter of “Diffusion Science Radio”. Her catchphrase “Planetoid! I love that word!” and accurate astronomy coverage have endeared her to listeners worldwide.

(266051) Hannawieser = 2006 NB

Discovered 2006 July 1 by M. Griesser at Eschenberg Observatory, Winterthur.

Hanna Wieser (b.1957) is a Swiss violinist and a long-time member of the orchestra “Musikkollegium Winterthur” (founded in 1629). She is also a renowned violin teacher and conductor of the St. Arbogast Church Orchestra in Oberwinterthur.

(269550) Chur = 2009 WT₅

Discovered 2009 Nov. 16 by J. De Queiroz at Sternwarte Mirasteilas, Falera.

The city of Chur, capital of Grisons canton, is the oldest town in Switzerland, with a settlement history dating back 5,000 years.

(273836) Hoiyyusek = 2007 GZ₂₇

Discovered 2007 Apr. 13 by Q.-z. Ye and H.-C. Lin at Lulin.

Hoi Jyu Sek (Haizhushi), “the Rock of the Pearl in Sea”, was a large rock in the Pearl River that had been treated as an icon of Guangzhou (Canton) for many centuries. Many places and sites in Guangzhou, including the river itself, were named after it. Hoi Jyu Sek was buried under the Cheung Tai riverbank in 1931.